

# BODY

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## SPECIFICATIONS

E42CA--

## GENERAL SPECIFICATIONS

Items	Specifications
Front door Construction Regulator system Locking system	Front hinged, sash construction X-arm type Pin-fork type
Rear door Construction Open/close window Locking system	Slide type Slide type Pin-fork type
Tailgate type	Single unit lift type
Glass installation method Windshield Door window Quarter window Tailgate window	Adhesive type, Weatherstrip type Weatherstrip type Weatherstrip type Weatherstrip type
Glass thickness mm (in.) Windshield Door glass Quarter window glass Tailgate glass	5.0 (0.20) . 3.5 (0.14) 3.5 (0.14) 3.5 (0.14)
Power window motor Type Revolutions under load r/min Revolutions under load [30 kgcm/h (26 in.lbs./h)] r/min Bound current A Direction of rotation	Permanent magnet type (built-in circuit breaker) 75 45-65 20 or less Clockwise and counter-clockwise
Power window switch Rated load current A Maximum load current A	10 25
Power window relay Maximum contact current A Rated coil current A Voltage drop between terminals V (At 12 V and the rated load current)	22 0.135-0.215 0.2 or less

Items	Specifications
Centre lock switch Rated load current (at 12 V) A	10
Door lock actuator Bound current (at 12 V) A *Tripping time (at 12 V) second Operating voltage range V	4.5 or less 5–30 9–15
Door lock control unit Effective voltage V Current consumption (when not in operation) mA	10–16 3 or less
Door lock power relay Range of voltage used V Rated load current (at 13.5 V) A Maximum coil current A	10–16 5 0.2
Sunroof motor Type Speed at no load r/min Speed at load r/min At 1 Nm (0.72 ft.lbs.) Bound current A Turning direction Limit switch rated load A	DC ferrite (with built-in circuit breaker) 155–195 110–150 35 or less Both clockwise and counter-clockwise 5
Sunroof switch Rated load current A	10–20

NOTE

\*Tripping time is the time consumed until current reaches 0.5 A after power connection.

**SERVICE SPECIFICATIONS**

E42CB

Items	Specifications
Standard values	
Front door glass holder mounting position mm (in.) Distance between the glass holder (A) and the glass edge	37.2–37.8 (1.36–1.50)
Front door outside handle play mm (in.)	3–8 (0.12–0.31)
Front door inside handle play mm (in.)	4–10 (0.16–0.39)
Rear door outside handle play mm (in.)	3–5 (0.12–0.20)
Rear door inside handle play mm (in.)	14–18 (0.55–0.71)
Clearance between tailgate handle and link assembly mm (in.)	0–1.5 (0–0.06)
Roof lid sliding resistance N (kg,lbs.)	200 (20, 44) or less
Sunroof motor clutch slipping force N (kg,lbs)	30–40 (3.0–4.0, 7–9)

## TORQUE SPECIFICATIONS

E42CC--

Items	Nm	kgm	ft.lbs.
Front door hinge	17-26	1.7-2.6	12-19
Rear door striker	9-14	0.9-1.4	6.5-10
Centre roller arm	17-26	1.7-2.6	12-19
Centre rail attaching nut	5-8	0.5-0.8	4-6
Upper roller arm	9-14	0.9-1.4	6.5-10
Lower roller arm B	17-26	1.7-2.6	12-19
Lower roller arm A	17-26	1.7-2.6	12-19
Rear door latch	4-6	0.4-0.6	3-4
Sub latch	4-6	0.4-0.6	3-4
Tailgate hinge attaching bolt	9-14	0.9-1.4	7-10
Tailgate hinge attaching nut	11-16	1.1-1.6	8-12
Tailgate striker	7-11	0.7-1.1	5-8
Tailgate latch assembly	7-11	0.7-1.1	5-8
Under skid plate	19-28	1.9-2.8	14-20
Front part of under cover	19-28	1.9-2.8	14-20
Rear part of under cover	9-14	0.9-1.4	6.5-10
Pipe	9-14	0.9-1.4	6.5-10
Front seat (driver's side)	9-14	0.9-1.4	6.5-10

## LUBRICANTS

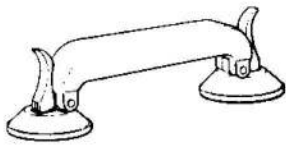



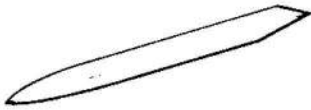
Items	Specified lubricant	Quantity
Door check and door check spring pin	Multipurpose grease SAE J310, NLGI No.2	As required
Window regulator assembly		
Door latch, outside handle and inside handle		
Rear door roller arms		
Child protection		
Sub latch		
Remote control assembly		
Tailgate hinge		
Link assembly		
Tailgate handle		
Sunroof motor		
Rear guide and cable assembly		
Deflector assembly, hinge and front guide bracket		

## SEALANT AND ADHESIVE

Items	Specified sealant and adhesive	Remarks
Windshield glass	3M ATD Part No. 8608, 8609 or equivalent	---
Rear door window glass runchannel, quarter window glass runchannel	3M ATD Part No. 8513 or equivalent	Drying sealant
Waterproof film	3M ATD Part No. 8625 or equivalent	Ribbon sealer
Front corner panel		
Tailgate hinge	3M ATD Part No. EC-1368 or 3M ATD Part No. 8080 or equivalent	Drying adhesive
Fuel filler door base plate	3M ATD Part No. 8531, 8646 or equivalent	Body sealant
Sunroof rail end cover		
Sunroof holder	3M ATD Part No. 8155, 8121 or equivalent	Quick fix adhesive

**SPECIAL TOOLS**

E42DA---

Tool (Number and name)	Use	Tool (Number and name)	Use
MB990480 Glass holder 	Removal and installation of windshield	MB990834 or MB991163 Door adjusting wrench  	Adjustment of door fit
MB990449 Window moulding remover 	Removal of the window moulding	MB990784 Ornament remover 	Removal of door trim

## TROUBLESHOOTING

E42EA--

Symptom		Probably cause	Remedy	Reference page
Window glass	Water leak through windshield	Defective weatherstrip seal	Fill sealant	42-21
		Cracked or defective weatherstrip	Replace	42-15
		Defective body flange	Correct	-
	Water leak through tailgate window	Cracked or defective weatherstrip	Replace	42-25
		Defective tailgate window flange	Correct	-
	Water leak through front door window	Incorrect window glass installation	Adjust position	42-10
		Gap at upper window glass	Adjust position	42-10
	Water leak from sliding rear door window or quarter window	Defective window frame	Replace	42-22
	Water leak through fixed type quarter window	Cracked or defective weatherstrip	Replace	42-24
		Defective quarter panel flange	Correct	-
Front door	Door window malfunction	Incorrect window glass installation	Adjust position	42-10
		Incorrect door sash contact	Adjust contact	42-10
		Damaged or defective sash	Correct or replace	-
		Damaged or defective regulator arm or regulator	Correct or replace	42-10, 36
	Stiff window regulator handle	Incorrect window glass installation	Adjust position	42-10
		Damaged or defective sash	Correct or replace	-
		Damaged or defective regulator arm or regulator	Correct or replace	42-10, 36
	Water leak through door edge	Cracked or defective opening weatherstrip	Replace	42-35
	Water leak from door center	Drain hole clogged	Remove foreign objects	-
		Inadequate waterproof film contact or damage	Correct or replace	42-35
	Door hard to open	Incorrect latch or striker adjustment	Adjust	42-10
	Door does not open or close completely	Incorrect door installation	Adjust position	42-10
		Defective door check	Correct or replace	42-29
		Door check hinge requires grease	Apply grease	42-28
	Uneven gap between body	Incorrect door installation	Adjust position	42-10
	Rear door	Water leak from door edge	Cracked or defective opening weatherstrip	Replace
Stiff door operation		Incorrect latch or striker adjustment	Adjust	42-11
		Incorrect door installation	Adjust position	42-11
Stops half way when sliding, or stiff		Incorrect roller arm installation or requires grease	Adjust or grease	42-46
		Defective roller arm	Replace	42-45
Uneven gap between body		Misaligned door	Adjust position	42-11

	Symptom	Probably cause	Remedy	Reference page
Tail-gate	Water leak from tailgate edge	Cracked or defective opening weatherstrip	Replace	42-54
	Tailgate lift	Incorrect latch or striker adjustment	Adjust	42-12
	Heavy tailgate opening lock	Incorrect latch or striker adjustment	Adjust	42-12
		Incorrect tailgate latch link assembly adjustment	Adjust	42-12
	Uneven gap between body	Incorrect tailgate installation	Adjust position	42-12
Sun-roof	Water leaks into interior	Clogged drain	Clean	-
		Clogged drain pipe	Blow in air and remove dirt	-
		Drain pipe loose, broken, clip defective or cracked	Check pipe installation and flange contact Replace if required	42-63
		Cracked or worn roof lid weatherstrip	Check weatherstrip installation Replace if required	-
		Excess gap between roof lid and body, or inadequate weatherstrip contact	Correct housing assembly	-
	Rushing sound	Loose or defective deflector	Tighten or replace	42-67
	Abnormal noise when moving roof lid	Foreign objects engaged in guide rail	Remove foreign objects	-
		Loose guide rail or lid	Tighten	42-67
	Despite motor rotation, lid does not move, or stops at non-specified position. [Specified position: about 200 mm (7.87 in.) when closed]	Foreign objects engaged in guide rail	Remove foreign objects	-
		Inadequate motor pinion and drive cable engagement (loose motor or damaged pinion)	Tighten or replace	42-63
		Decreased motor clutch slipping force	Check clutch slipping force Adjust	42-64
		Interference of drive cable, weatherstrip or others due to incorrect lid adjustment	Check roof lid installation and parts installation Measure lid contact resistance. Replace parts if required	42-64
		Incorrect limit switch adjustment position	Check and adjust	42-66
	Abnormal noise from motor	Incorrect motor pinion and drive cable engagement	Check pinion installation and motor installation	-
Worn or defective motor pinion bearing		Replace motor	42-63	
Worn or defective drive cable		Replace	42-67	

NOTE

\*The clutch slipping sound in motor when fully open or closed is normal.

Symptom		Probable cause	Remedy	Reference page
Tilt up type sunroof	Water leaking into the cabin	Obstructions blocking the roof panel gutter	Remove obstructions	–
		Case molding or guide rail fits poorly or is deformed	Tighten or replace	P. 42–68–1
		Damage or deterioration of the roof lid weather strip	Replace	P. 42–68–1
		Roof lid glass cracked or broken	Replace	P. 42–68–1
		Hinge assembly fits poorly or is deformed	Tighten or replace	P. 42–68–1
		Lock handle incorrectly installed or faulty	Repair or replace	P. 42–68–1
		Drain pipe clogged	Remove obstructions	–
		Drain pipe missing or broken, clip faulty or broken	Reinstall the drain pipe correctly or replace the clip	P. 42–68–1
Water leaking in from the crystal light roof	Glass is poorly fitting	Apply sealant	P. 42–68–3	
	Roof flange faulty	Repair	–	

## POWER WINDOWS

E42EC--

Symptom	Inspection items									
	Poor battery	Burnt-out fusible link	Burnt-out fuse No. 16	Break in wiring harness	Poor earthing	Poor connector connection	Malfunctioning power window switch	Malfunctioning power window motor	Malfunctioning power window relay	Improper adjustment of door glass and door window regulator
Reference page	–	–	–	–	–	–	42–43	42–36	42–44	42–10
Door glass fails to operate up and down		②	①	⑧	③	④	⑤	⑥	⑦	
Door glass operates up and down hardly	①									②

## NOTE

Number in circle indicates inspection sequence.



**CENTRE LOCK SYSTEM**

E42ED--

Inspection items	Burnt-out fusible link	Burnt-out independent fuse	Break in wiring harness	Poor earthing	Poor connector connection	Malfunctioning door lock actuator	Malfunctioning door lock control unit	Malfunctioning door lock power relay	Improper installation of door lock actuator	Malfunction of latch
Symptom										
Reference page	-	-	-	-	-	42-39, 52, 59	-	42-61	42-39, 53, 59	-
All doors do not lock/unlock	②	①	⑦	③	④		⑥	⑤		
One or more doors do not lock/unlock			④	①	②	③			⑤	⑥

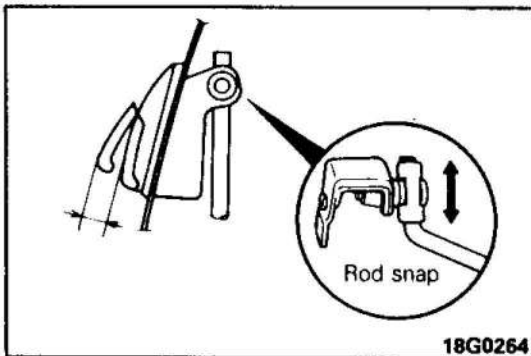
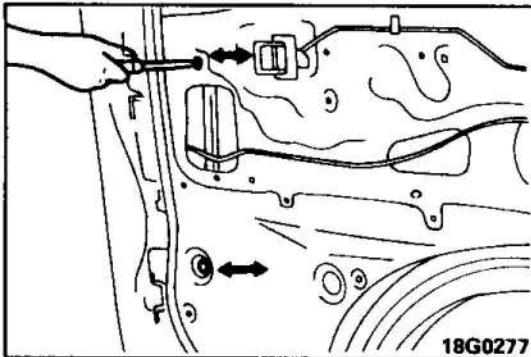
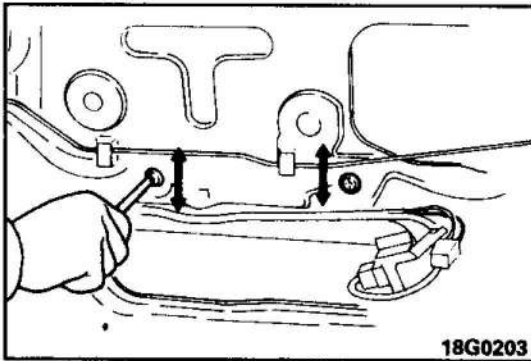
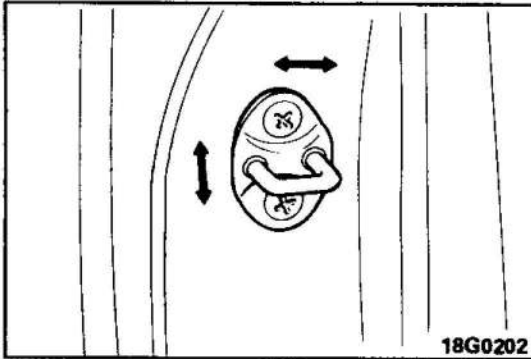
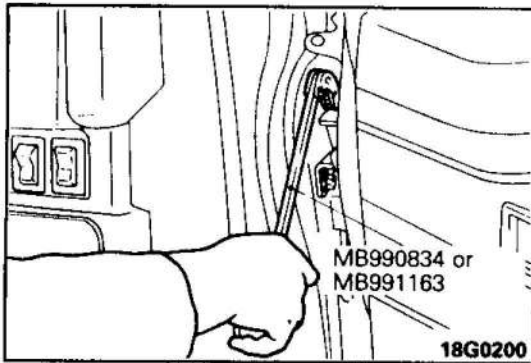
NOTE  
Number in circle indicates inspection sequence.

**SUNROOF**

E42EE--

Inspection items	Poor battery	Burnt-out fusible link	Burnt-out fuse No. 14	Break in wiring harness	Poor earthing	Poor connector connection	Malfunctioning sunroof switch	Malfunctioning sunroof motor	Malfunctioning sunroof relay
Symptom									
Reference page	-	-	-	-	-	-	42-66	42-64	42-65
Roof lid fails to operate		②	①	⑧	③	④	⑤	⑥	⑦
Roof lid operates hardly	①								

NOTE  
Number in circle indicates inspection sequence.



## SERVICE ADJUSTMENT PROCEDURES

### INSPECTION AND ADJUSTMENT OF FRONT DOOR ASSEMBLY FIT

E42FDAB

Adjust front door fitting as follows.

1. Loosen door hinge bolt on body side with special tool. Adjust to provide even space all around door.
2. Loosen door hinge bolt on door side and adjust door fit.

#### Caution

**Place protective tape on front corner panel and bumper corner edge around hinge.**

3. Move striker horizontally and vertically and adjust front door fit and door latch engagement.

### FRONT DOOR GLASS CHECK AND ADJUSTMENT SASH CONTACT CHECK AND ADJUSTMENT

E42FEAB

Close front door glass fully to check contact with sash. Adjust as follows if required.

1. Remove door trim and waterproof film. (Refer to P.42-30, 32.)
2. Loosen regulator channel guide bolt. Move channel guide vertically and adjust sash contact.

### REGULATOR HANDLE OPERATION CHECK AND ADJUSTMENT

Check regulator handle operation. Adjust as follows.

1. Remove door trim and waterproof film. (Refer to P.42-30, 32.)
2. Loosen lower sash bolt. Move lower sash horizontally and adjust regulator handle operation.

### FRONT DOOR OUTSIDE HANDLE PLAY CHECK AND ADJUSTMENT

Check that play is within the standard value.

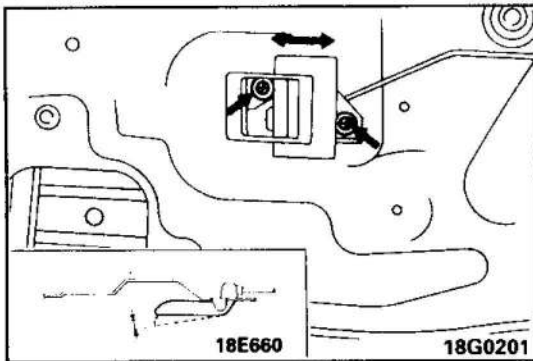
If not within the standard value, adjust as follows.

1. Remove door trim and waterproof film. (Refer to P.42-30, 32.)
2. Remove outside handle rod from outside handle. Turn upper rod to adjust outside handle play.

**Standard value: 3-8 mm (0.12-0.31 in.)**

#### Caution

**The rod snap must be replaced.**



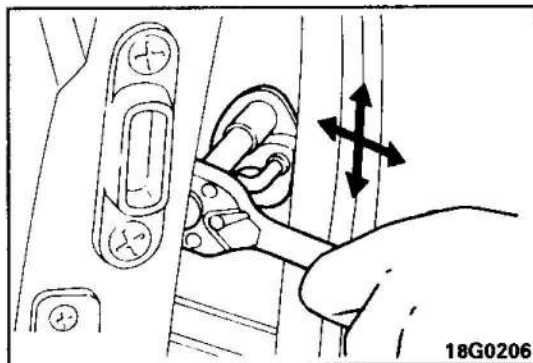
**FRONT DOOR INSIDE HANDLE PLAY CHECK AND ADJUSTMENT**

E42FGAB

Check that play is within the standard value.  
If not within the standard value, adjust as follows.

1. Remove door trim and waterproof film.  
(Refer to P.42-30, 32.)
2. Loosen inside handle screw. Move inside handle back and forth to adjust play.

**Standard value: 4-10 mm (0.16-0.39 in.)**

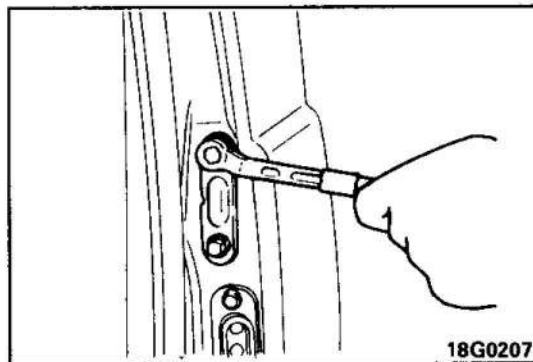


**INSPECTION AND ADJUSTMENT OF REAR DOOR ASSEMBLY FIT**

E42FJAA

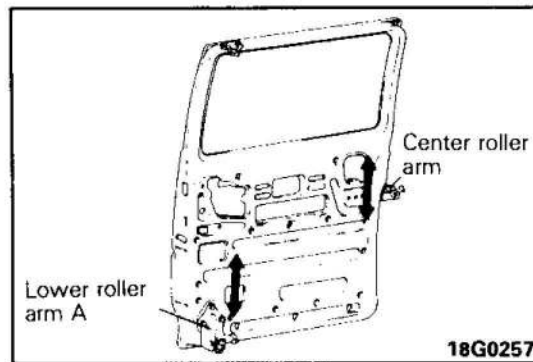
**CHECK AND ADJUSTMENT OF REAR DOOR CLOSURE**

Check door closure when closed normally.  
Loosen striker screw. Move striker vertically and horizontally to adjust.



**STOPPER CONTACT CHECK AND ADJUSTMENT**

Check stopper contact with door closed.  
Loosen bolt on body side stopper A. Move stopper A vertically and horizontally and adjust.

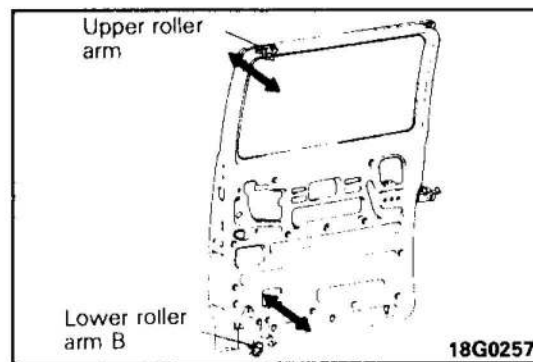


**CHECK AND ADJUSTMENT OF SPACE AND STEP BETWEEN BODY**

Check space and step with rear door closed.  
Adjust uneven space or step as follows.

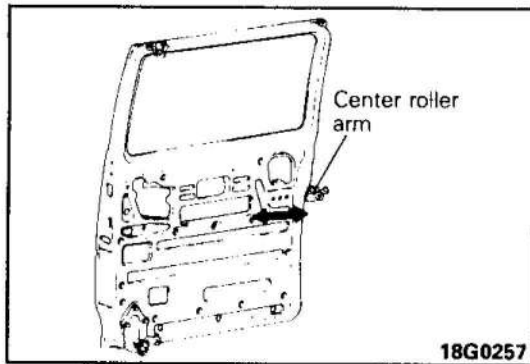
**Vertical Adjustment**

1. Remove door trim and waterproof film.  
(Refer to P.42-47.)
2. Loosen center roller arm and lower roller arm A bolts. Move center roller arm and lower roller arm A vertically to adjust.

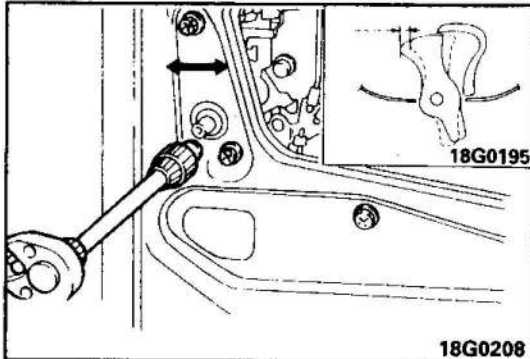


**Horizontal Adjustment**

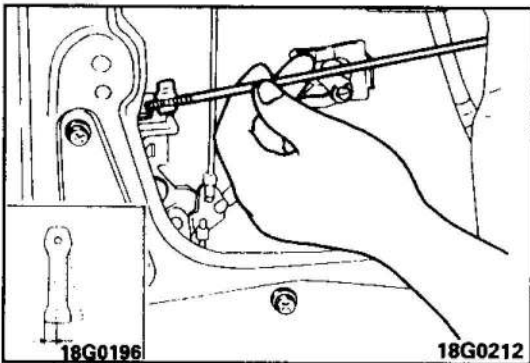
Loosen upper roller arm and lower roller arm B bolts. Move upper roller arm and lower roller arm B to adjust.



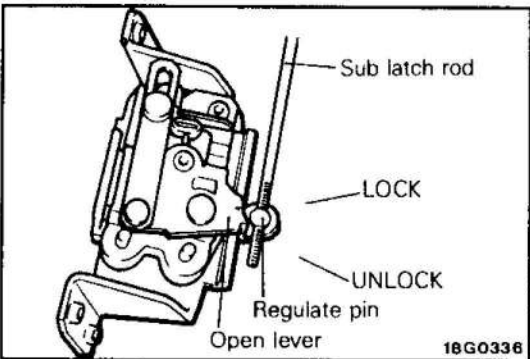
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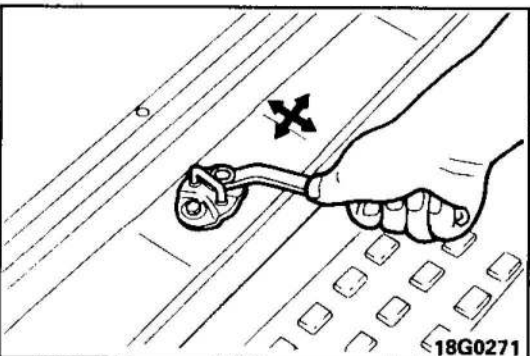
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18G0336



18G0271

### Back and Forth Adjustment

1. Remove door trim and waterproof film. (Refer to P.42-47.)
2. Loosen center roller arm bolt. Move center roller arm back and forth to adjust.

### REAR DOOR OUTSIDE HANDLE PLAY CHECK AND ADJUSTMENT

E42FKAA

Check that play is within the standard value.  
If not within the standard value, adjust as follows.

1. Remove door trim and waterproof film. (Refer to P.42-47.)
2. Loosen remote control assembly mounting bolt. Move remote control assembly back and forth to adjust play.

**Standard value: 3-5 mm (0.12-0.20 in.)**

### REAR DOOR INSIDE HANDLE PLAY CHECK AND ADJUSTMENT

E42FLAA

Check that play is within the standard value.  
If not within the standard value, adjust as follow.

1. Remove door trim and waterproof film. (Refer to P.42-47.)
2. Disconnect sub latch and sub latch rod.
3. Pull latch rod forward to install on rod snap and adjust.

**Standard value: 14-18 mm (0.55-0.71 in.)**

4. Position sub latch open lever at LOCK. Match sub latch rod regulating pin to open lever hole and lock.

#### Caution

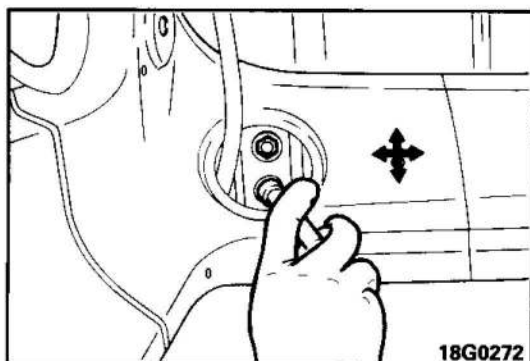
**When sub latch and sub latch rod are removed, rod snap must be replaced.**

### INSPECTION AND ADJUSTMENT OF TAIL GATE FIT

E42FMAA

#### CHECK AND ADJUSTMENT OF TAIL GATE CLOSURE

Check door closure when closed normally.  
Loosen striker bolt. Move striker vertically and horizontally to adjust.

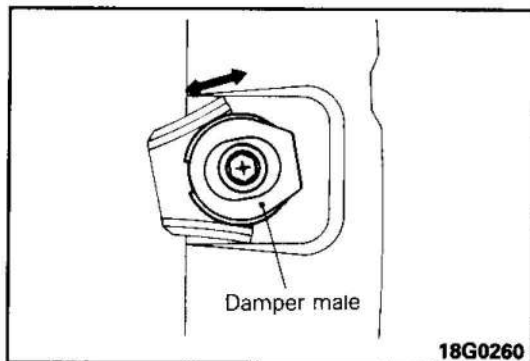


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**CHECK AND ADJUSTMENT OF SPACE BETWEEN BODY**

Check space with tail gate closed.  
Adjust uneven space as follows.

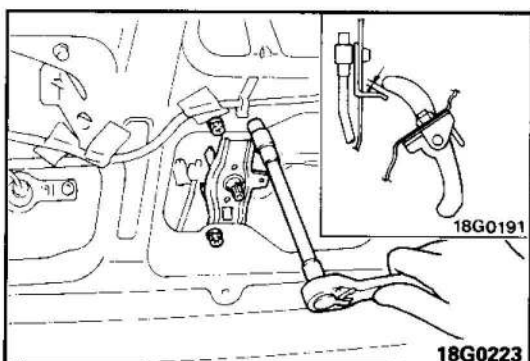
1. Remove headlining.  
(Refer to GROUP 52 INTERIOR—Headlining)
2. Loosen tail gate bolt. Move hinge back and forth and horizontally to adjust.



18G0260

**DAMPER MALE CONTACT CHECK AND ADJUSTMENT**

Check damper male contact with tail gate closed.  
Loosen damper male mounting bolt. Move damper male back and forth to adjust.



18G0223

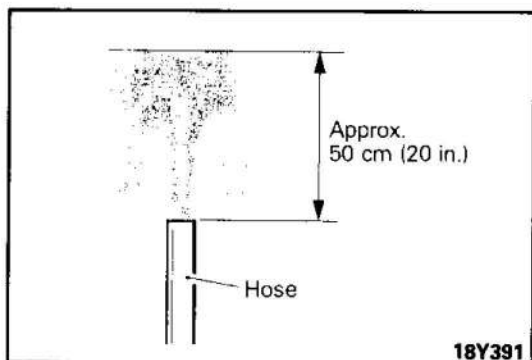
**ADJUSTMENT OF SPACE BETWEEN TAILGATE HANDLE AND LINK ASSEMBLY**

E42FNAA

Check that space between tailgate handle and link assembly is at the standard value.

If not within the standard value, adjust as follows.  
Loosen link assembly bolt. Move link assembly vertically to adjust.

**Standard value: 0–1.5 mm (0–0.06 in.)**

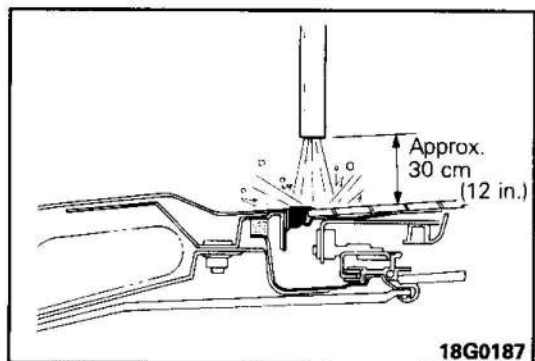


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**WATER TEST**

E42FOAA

1. Close roof lid tightly.
2. Hold hose upward and adjust water fountain to about 50 cm (20 in.) high.



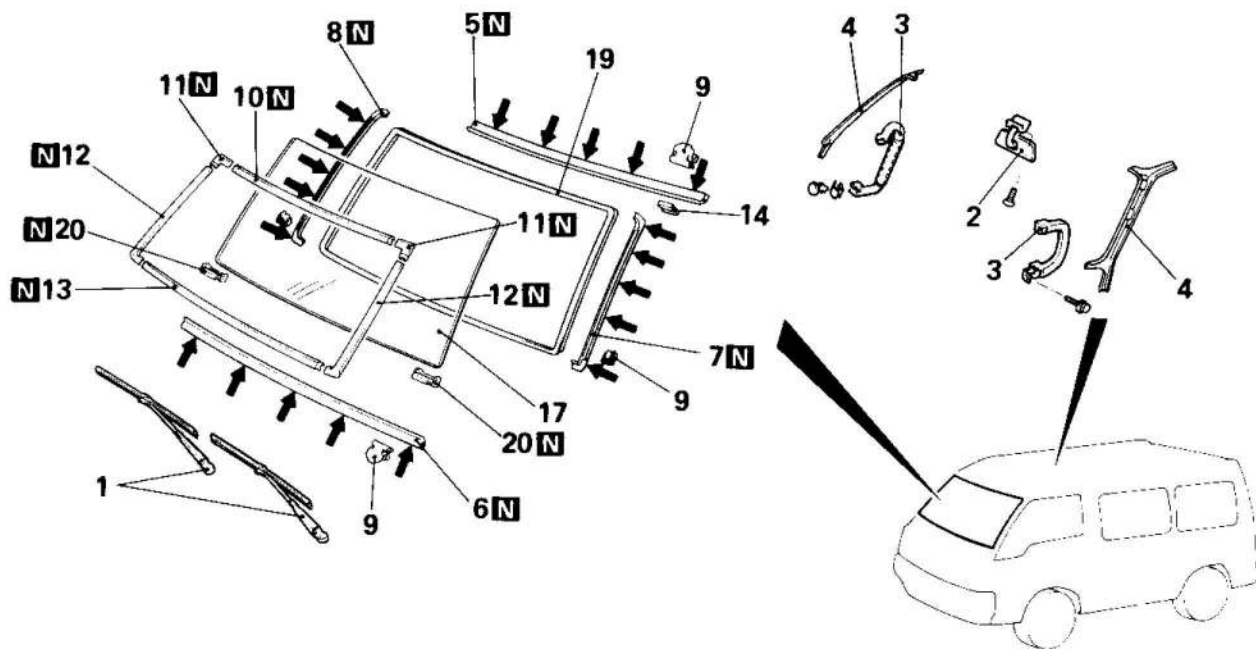
18G0187

3. Pour water over the roof from about 30 cm (12 in.) above roof for more that 5 minutes.
4. While pouring water, check for leak around roof lid.
5. In the event of leakage, check drain pipe, weatherstrip contact and others.

## WINDSHIELD

## REMOVAL AND INSTALLATION

Adhesive type

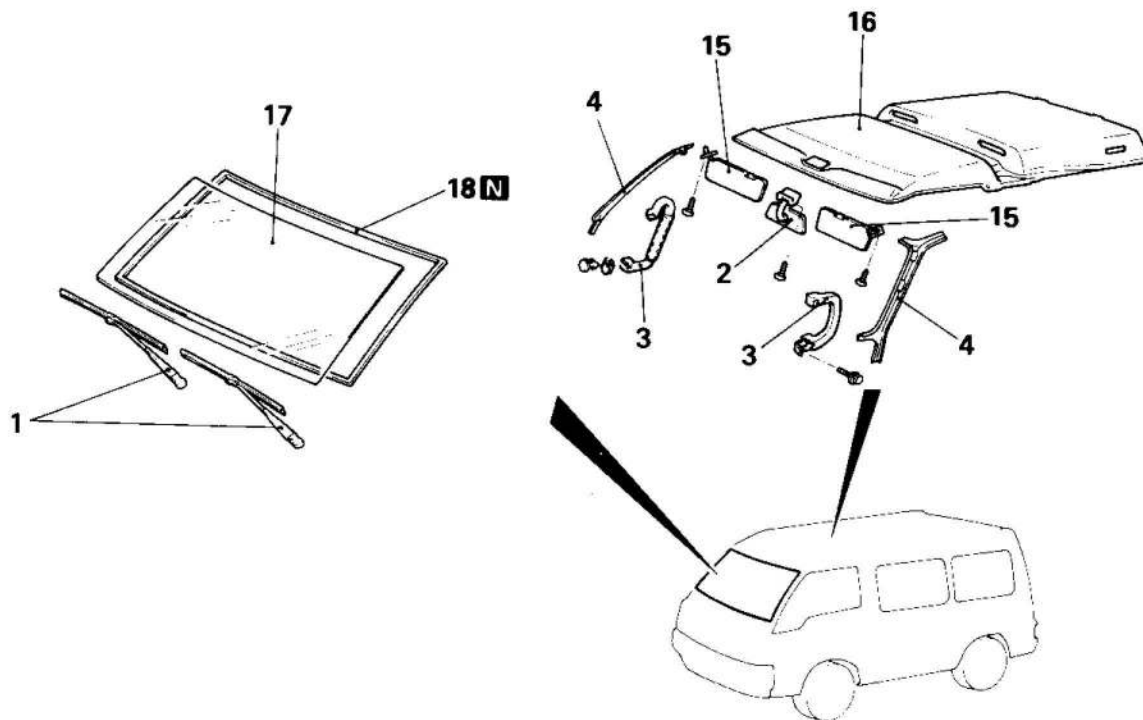


18G0384

## Removal steps

- ◆◆◆◆ 1. Wiper blade and arm assembly
- ◆◆◆◆ 2. Inside rear view mirror
- ◆◆◆◆ 3. Assist grip assembly
- ◆◆◆◆ 4. Front pillar trim
- ◆◆◆◆ 5. Flange upper trim
- ◆◆◆◆ 6. Flange lower trim
- ◆◆◆◆ 7. Flange side trim (L.H.)
- ◆◆◆◆ 8. Flange side trim (R.H.)
- ◆◆◆◆ 9. Clips
- ◆◆◆◆ 10. Upper moulding
- ◆◆◆◆ 11. Upper joint
- ◆◆◆◆ 12. Pillar moulding
- ◆◆◆◆ 13. Lower moulding
- ◆◆◆◆ 14. Window moulding clip
- ◆◆◆◆ 17. Windshield glass
- ◆◆◆◆ 19. Window dam
- ◆◆◆◆ 20. Window moulding clip

Weatherstrip type



18G0384

**Removal steps**

- ◆◆◆◆ 1. Wiper blade and arm assembly
- ◆◆◆◆ 2. Inside rear view mirror
- ◆◆◆◆ 15. Sun visor
- ◆◆◆◆ 3. Assist grip assembly
- ◆◆◆◆ 4. Front pillar trim
- ◆◆◆◆ 16. Front headlining front part
- ◆◆◆◆ 17. Windshield glass
- ◆◆◆◆ 18. Windshield weatherstrip

**NOTE**

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆ : Refer to "Service Points of Removal".
- (3) ◆◆◆ : Refer to "Service Points of Installation".
- (4) **N** : Non-reusable parts
- (5) ◀ : Clipping points.







**SERVICE POINTS OF REMOVAL****1. REMOVAL OF WIPER BLADE AND ARM ASSEMBLIES**

Refer to GROUP 51—Windshield Wipers.

**4. REMOVAL OF FRONT PILLAR TRIMS**

Refer to GROUP 52—Trims.

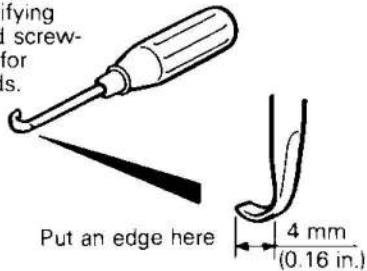
**5. REMOVAL OF FLANGE UPPER TRIM/6. FLANGE LOWER TRIM/7. FLANGE SIDE TRIM (L.H.)/8. FLANGE SIDE TRIM (R.H.)**

(1) Make the recommended tool as shown in the figure, and insert it into the flange trim end.

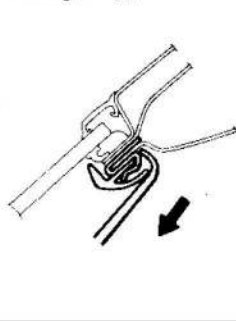
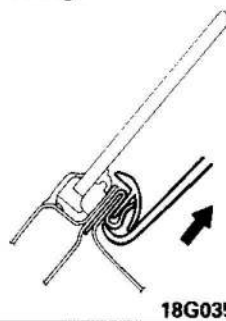
(2) Remove the clipping parts of the flange upper trim, flange lower trim, flange side trim (L.H.) and flange side trim (R.H.) to remove them.

**Recommended tool**

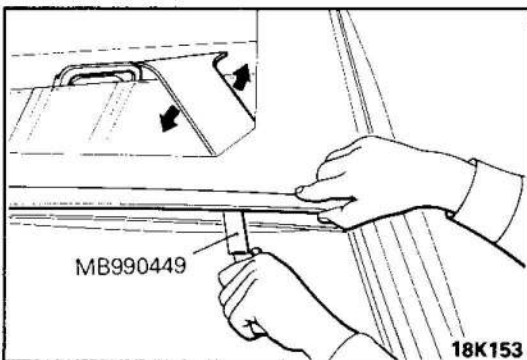
Manufacture this tool by modifying the standard screwdriver used for slotted heads.



18U0161

**Flange upper Trim****Flange lower trim**

18G0354



18K153

**10. REMOVAL OF UPPER MOULDING/11. UPPER JOINT/12. PILLAR MOULDING/13. LOWER MOULDING**

Remove the mouldings by using the special tool.

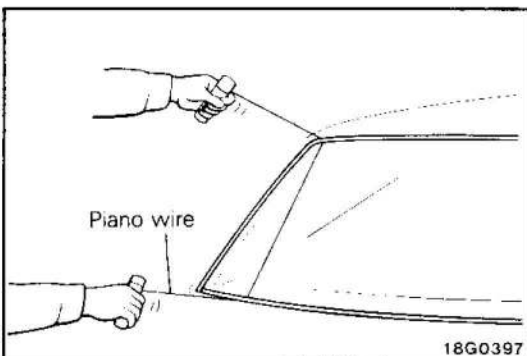
**16. REMOVAL OF FRONT HEADLINING FRONT PART**

Refer to GROUP 52 — Heading.

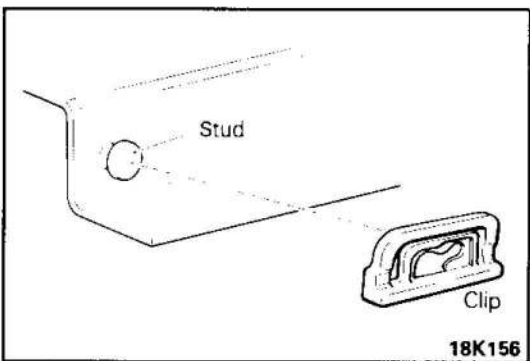
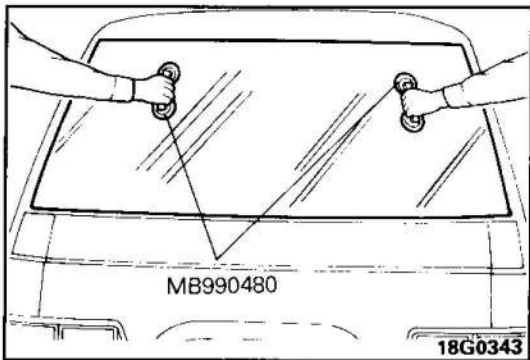
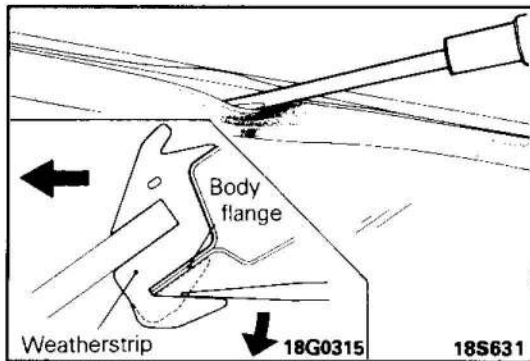
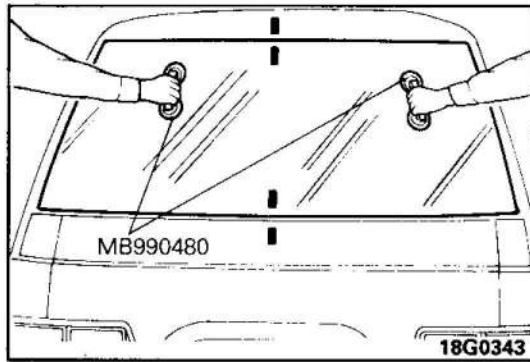
**17. REMOVAL OF WINDSHIELD GLASS****Adhesive Type**

(1) Use piano wire to remove the windshield glass as described below.

- ① Using a sharp-point drill, make holes at 2 places at top and bottom in the windshield glass adhesive.
- ② Pass both ends of the piano wire from inside the vehicle through the 2 holes at top and bottom.
- ③ Wrap both ends of the piano wire around a piece of wood.
- ④ From the outside, pull the piano wire alternately along the windshield glass to cut the adhesive.



18G0397



**Caution**

In order to protect the body from damage, apply cloth tape to all body areas around the installed glass before cutting the adhesive.

- ⑤ Make mating marks on the glass and body.
  - ⑥ Take out the glass using a special tool.
- (2) Use a screwdriver or similar tool to pry up and remove the moulding mounting clips.

**Weatherstrip Type**

- (1) Push the windshield out from the inside of the cabin with the lip of the weatherstrip straightened along the entire periphery with a screwdriver.

- (2) Take out the windshield by using the special tool.

**NOTE**

If the windshield being removed is to be reinstalled, place it on a protected bench or holding fixture.

**INSPECTION**

- Check the body flange for deformation.
- Check the window moulding clips and studs for damage.

**NOTE**

If the T-studs are broken, use a drill to make holes in the T-studs 3 mm (0.12 in.) in diameter, fill the holes with adhesive, and then use screws to mount the window molding clips.

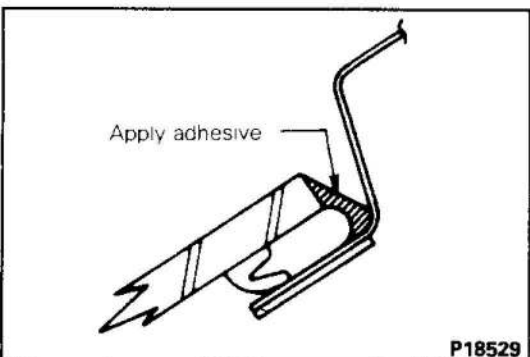
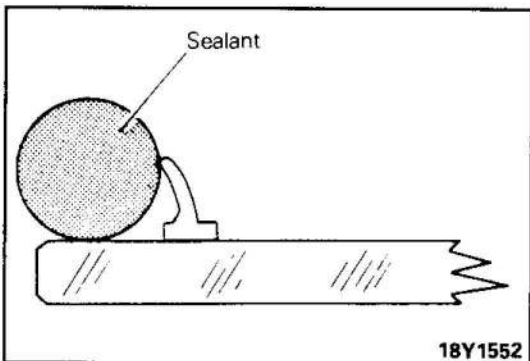
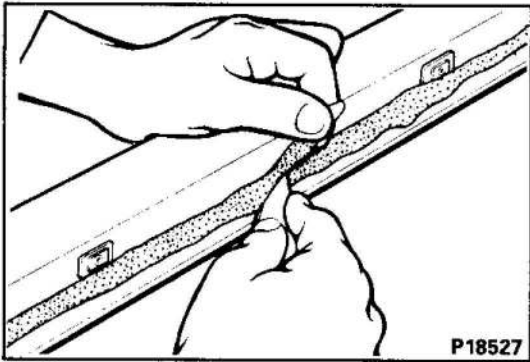
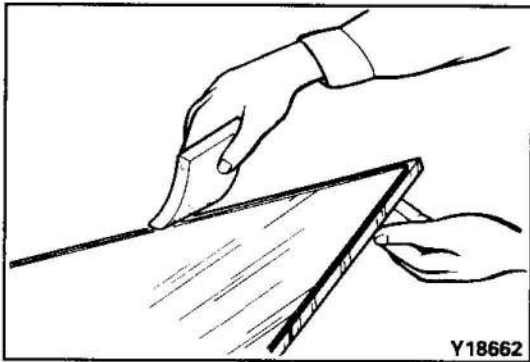
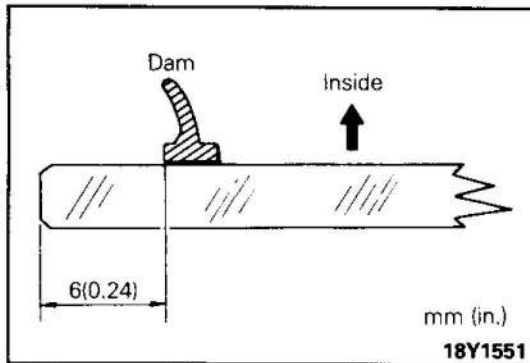
**Caution**

After installing the clip, apply antirust solvent to the screw head to protect them from rust.

**SERVICE POINTS OF INSTALLATION**

**19. INSTALLATION OF WINDOW DAM**

- (1) Using isopropyl alcohol, remove grease from the glass and body surface to which the adhesive will be applied. After removing the grease, allow the cleaned parts to dry for more than three minutes.



- (2) Remove the backing tape from the dam.
- (3) Attach the dam to the glass.

**Caution**

**Do not touch any surface from which grease has been removed using isopropyl alcohol.**

- (4) Apply the specified to the entire bonding surface of the glass, both to the inside surface and the edge of the glass.

**Specified primer: 3M ATD Part No. 8608 or equivalent.**

- (5) Allow the parts to dry for 5 minutes.

**Caution**

**Do not touch the surfaces that are coated with primer.**

## 17. INSTALLATION OF WINDSHIELD GLASS

### Adhesive Type

- (1) Using a sharp knife, remove old adhesive on the body opening pinch-weld flange evenly to a thickness of within 2 mm (0.08 in.) all around. Finish the flange surface so that they are smooth.

**Caution**

**Be careful not to remove more adhesive than necessary, and also not to damage the paintwork on the body surface with the knife. If the paintwork is damaged, repair the damaged area with touch-up paint or anti-rust solvent.**

- (2) Apply the specified adhesive around the bonding surface along the dam, starting from the side, at the central part of the glass.

**Specified adhesive: 3M ATD Part No. 8609 or equivalent**

- (3) Cut the joined ends of the sealant obliquely in order to prevent water leakage through this area. Place the glass on the opening by using the special tool.

- (4) Place the glass on the opening with the special tool.

- (5) Press the glass gently so that no adhesive appears.

**Caution**

**Place the glass in the previously marked position. Place the glass properly on the spacers. Use care not to close the water groove in the lower corner of the pinch-weld flange with adhesive. Do not move the glass after installing it to the body.**

- (6) After bonding the glass, apply specified adhesive all around the bonded area.

**Specified adhesive: 3M ATD Part No. 8609 or equivalent**

- (7) Test for water leakage.
- (8) If there is leakage, fill the leaking area with window weatherstrip sealant.

**Caution**

**Do not apply water directly to the bonded area.**

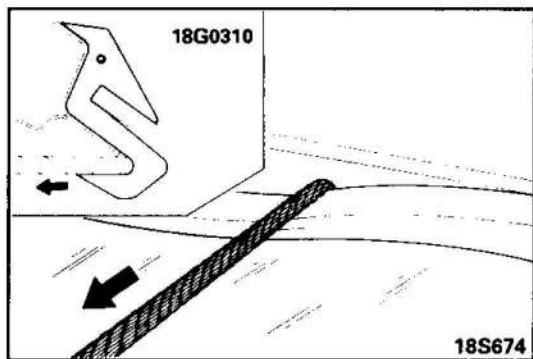
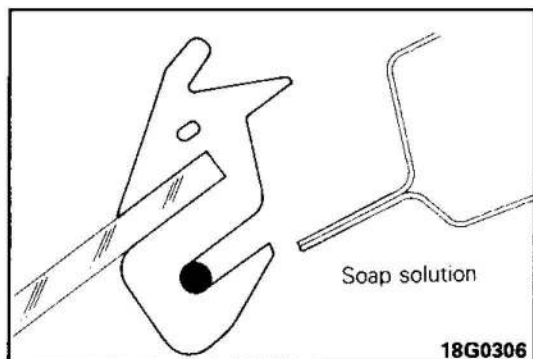
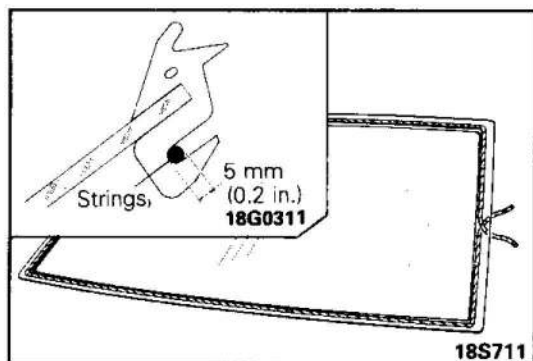
- (9) Mount the upper moulding clips in the specified positions.
- (10) Attach the clips to the side mouldings, and then mount the side mouldings so that the clips fit into the body flange holes.
- (11) Mount the upper and lower mouldings.

**Weatherstrip Type**

- (1) Set round strings in the weatherstrip groove.

**NOTE**

Make certain that the strings overlap other at both ends.



- (2) Apply soap solution to the entire periphery of the body flange.
- (3) Place the windshield in position from outside with the strings placed inside the cabin.

- (4) With the aid of an assistant to push the windshield from outside, slowly pull one end of the string at right angles to the windshield and fit the lips of the weatherstrip correctly on the windshield flange.

**NOTE**

Pull the strings, working from both sides of the windshield toward the centre and tapping the glass.

**Caution**

**Tap the windshield repeatedly until it is lightly held against the body flange surface.**

**16. INSTALLATION OF FRONT HEADLINING FRONT PART**

Refer to GROUP 52—Trims.

**4. INSTALLATION OF FRONT PILLAR TRIMS**

Refer to GROUP 52—Trims.

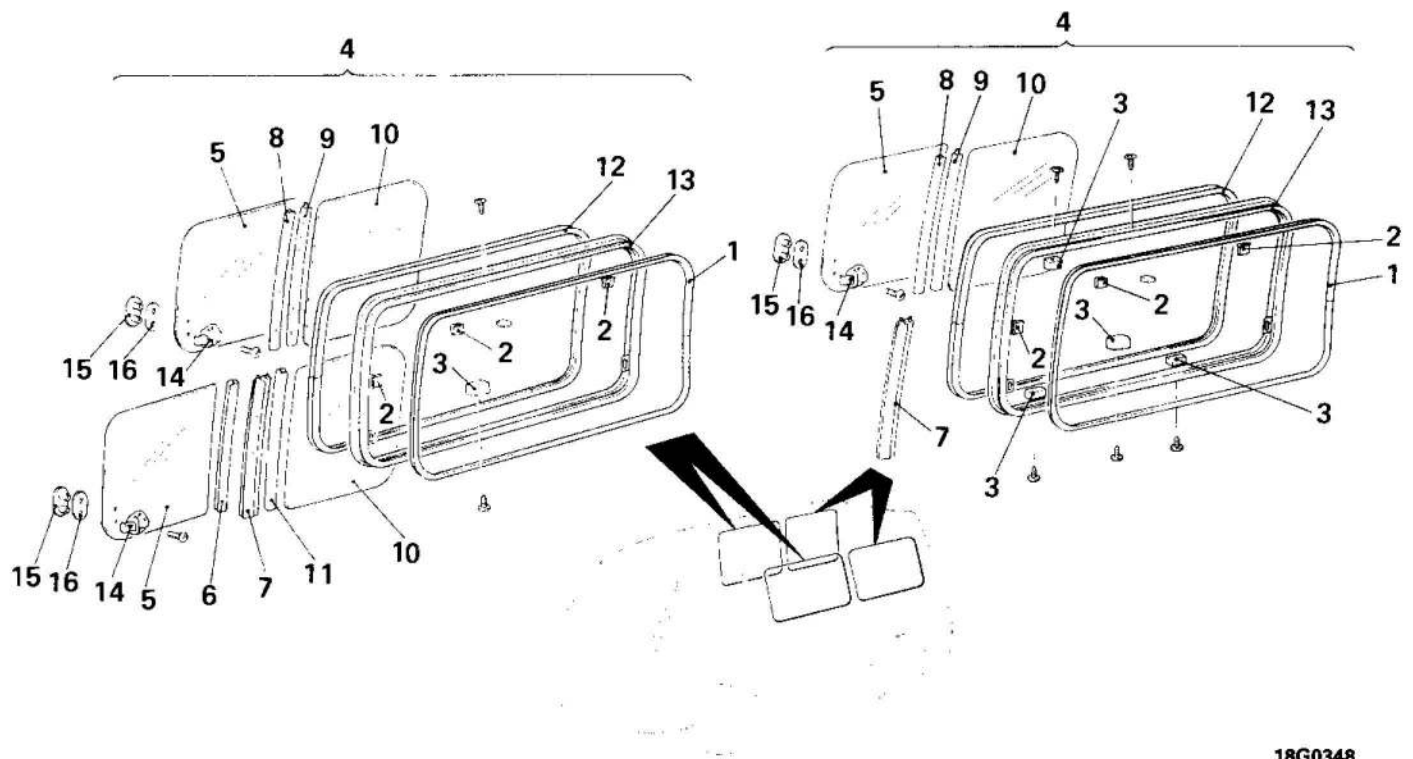
**1. INSTALLATION OF WIPER BLADE AND ARM ASSEMBLIES**

Refer to GROUP 51—Windshield wipers.

# REAR DOOR WINDOW GLASS AND QUARTER WINDOW GLASS (SLIDING TYPE)

E42LBAB

## REMOVAL AND INSTALLATION



18G0348

### Window glass removal steps

- ◆◆ 1. Opening trim
- ◆◆ 2. Clip
- ◆◆ 3. Glass stopper
- ◆◆ 4. Window glass and window frame assembly
- ◆◆ 5. Window glass A
- ◆◆ 6. Quarter window edge trim (vehicles for Europe)
- ◆◆ 7. Center seal assembly (both sides sliding type)
- ◆◆ 8. Seal rubber holder (one side sliding type)
- ◆◆ 9. Seal rubber (one side sliding type)
- ◆◆ 10. Window glass B
- ◆◆ 11. Quarter window edge trim (vehicles for Europe)
- ◆◆ 12. Runchannel
- ◆◆ 13. Window frame assembly

### Sliding glass lock removal steps

- ◆◆ 14. Sliding glass lock assembly
- ◆◆ 15. Connector
- ◆◆ 16. Packing

#### Pre-removal Operation

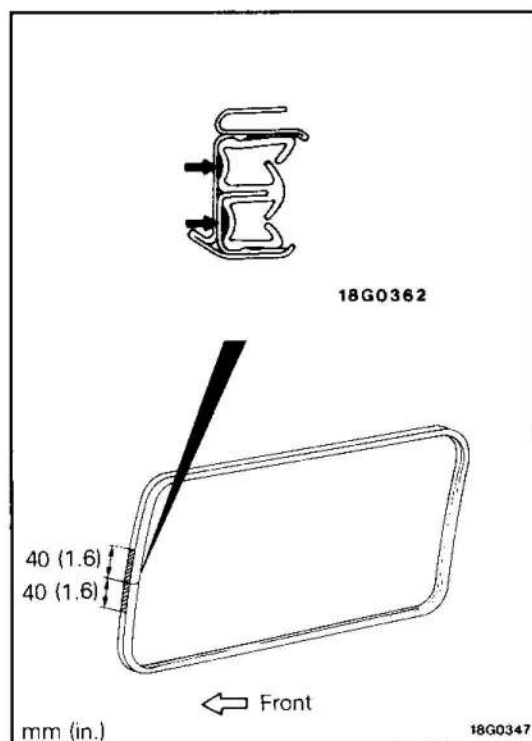
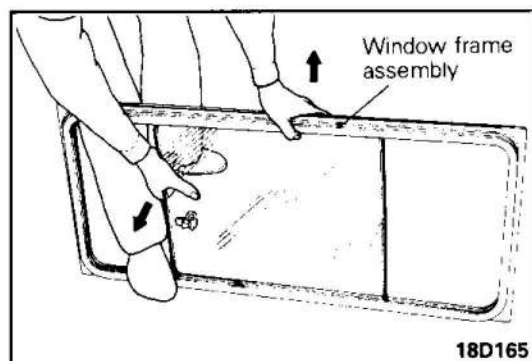
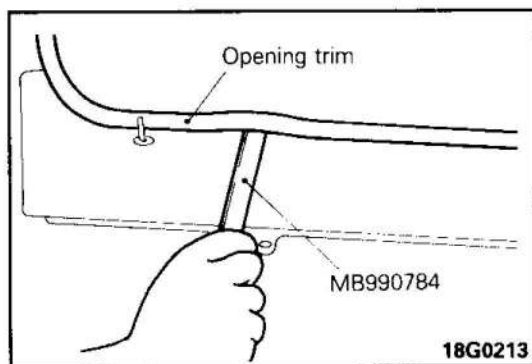
- Removal of belt line trim (Refer to GROUP 52 INTERIOR-Trim.)

#### Post-installation Operation

- Installation of belt line trim (Refer to GROUP 52 INTERIOR-Trim.)

#### NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆ : Refer to "Service Points of Removal".
- (3) ◆◆◆ : Refer to "Service Points of Installation".



### SERVICE POINTS OF REMOVAL

#### 1. REMOVAL OF OPENING TRIM

Remove the opening trim using the special tool.

#### 5. REMOVAL OF WINDOW GLASS A/10. WINDOW GLASS B

Move the window glass to the middle position and remove it by opening the window frame assembly up and down.

### SERVICE POINTS OF INSTALLATION

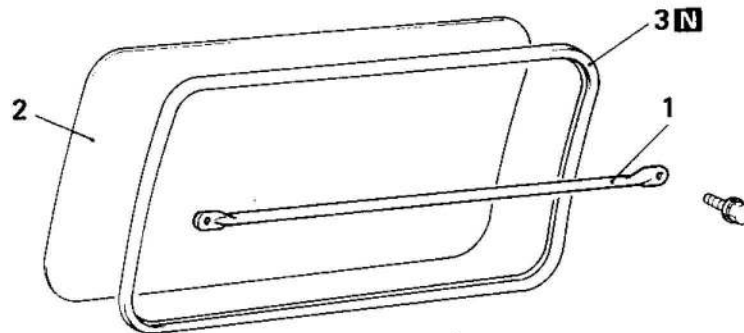
#### 12. APPLICATION OF ADHESIVE TO RUNCHANNEL

Apply the specified sealant to the runchannel at the location indicated in the illustration.

**Specified sealant: 3M ATD Part No. 8513 or equivalent**

**QUARTER WINDOW GLASS (FIXED TYPE)**

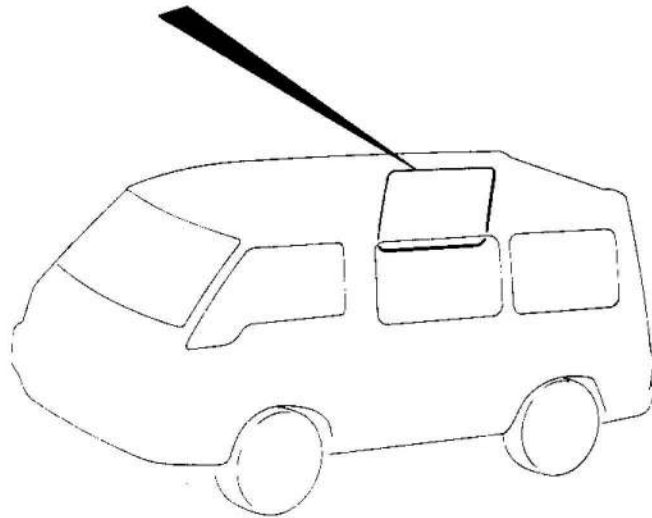
E42LBCB

**REMOVAL AND INSTALLATION****Pre-removal Operation**

- Removal of belt line trim  
(Refer to GROUP 52 INTERIOR-Trim.)

**Post-installation Operation**

- Installation of belt line trim  
(Refer to GROUP 52 INTERIOR-Trim.)



18G0295

**Removal steps**

1. Guard bar
- ◆◆◆ 2. Quarter window glass
- ◆◆ 3. Quarter window glass weatherstrip

**NOTE**

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆◆ : Refer to "Service Points of Removal".
- (3) ◆◆ : Refer to "Service Points of Installation".
- (4) **N** : Non-reusable parts

**SERVICE POINTS OF REMOVAL****2. REMOVAL OF QUARTER WINDOW GLASS**

Follow the same procedures as windshield glass.  
(Refer to P. 42-15.)

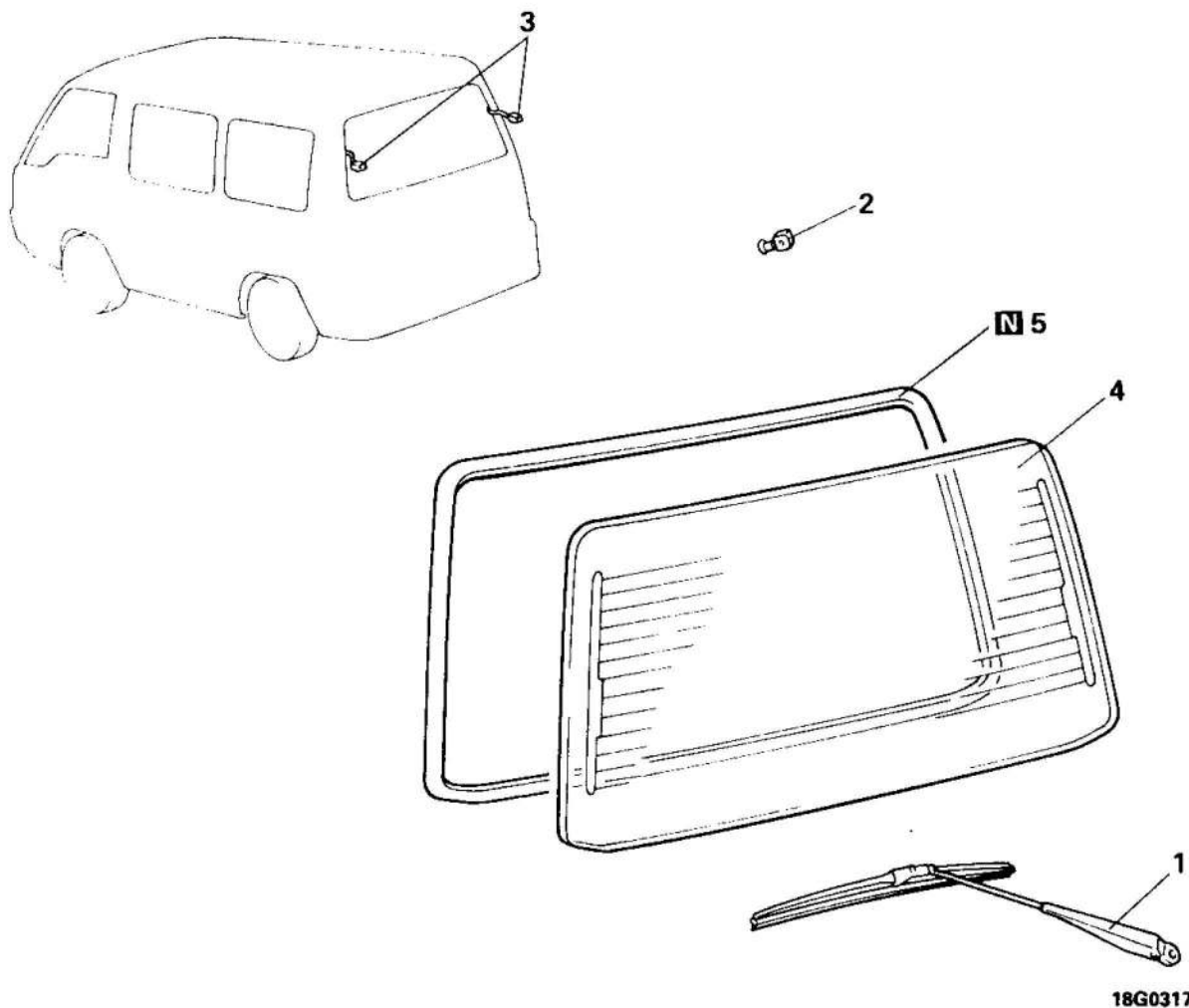
**SERVICE POINTS OF INSTALLATION****2. INSTALLATION OF QUARTER WINDOW GLASS**

Follow the same procedures as windshield glass.  
(Refer to P. 42-15.)



# TAILGATE WINDOW GLASS

## REMOVAL AND INSTALLATION



### Removal steps

- ◆◆ 1. Wiper blade and arm assembly
- ◆◆ 2. Washer nozzle
- 3. Rear defogger connector
- ◆◆◆◆ 4. Tailgate window glass
- 5. Tailgate window glass weatherstrip

### NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆ : Refer to "Service Points of Removal".
- (3) ◆◆◆ : Refer to "Service Points of Installation".
- (4) **N** : Non-reusable parts

## REMOVAL AND INSTALLATION

### 2. REMOVAL OF WASHER NOZZLE

Refer to GROUP 51 EXTERIOR—Tailgate Wiper and Washer.

### 4. REMOVAL OF TAILGATE WINDOW GLASS

Follow the same procedures as windshield glass.  
(Refer to P. 42-15.)

**SERVICE POINTS OF INSTALLATION****4. INSTALLATION OF TAILGATE WINDOW GLASS**

Follow the same procedures as windshield glass.  
(refer to P.42-15.)

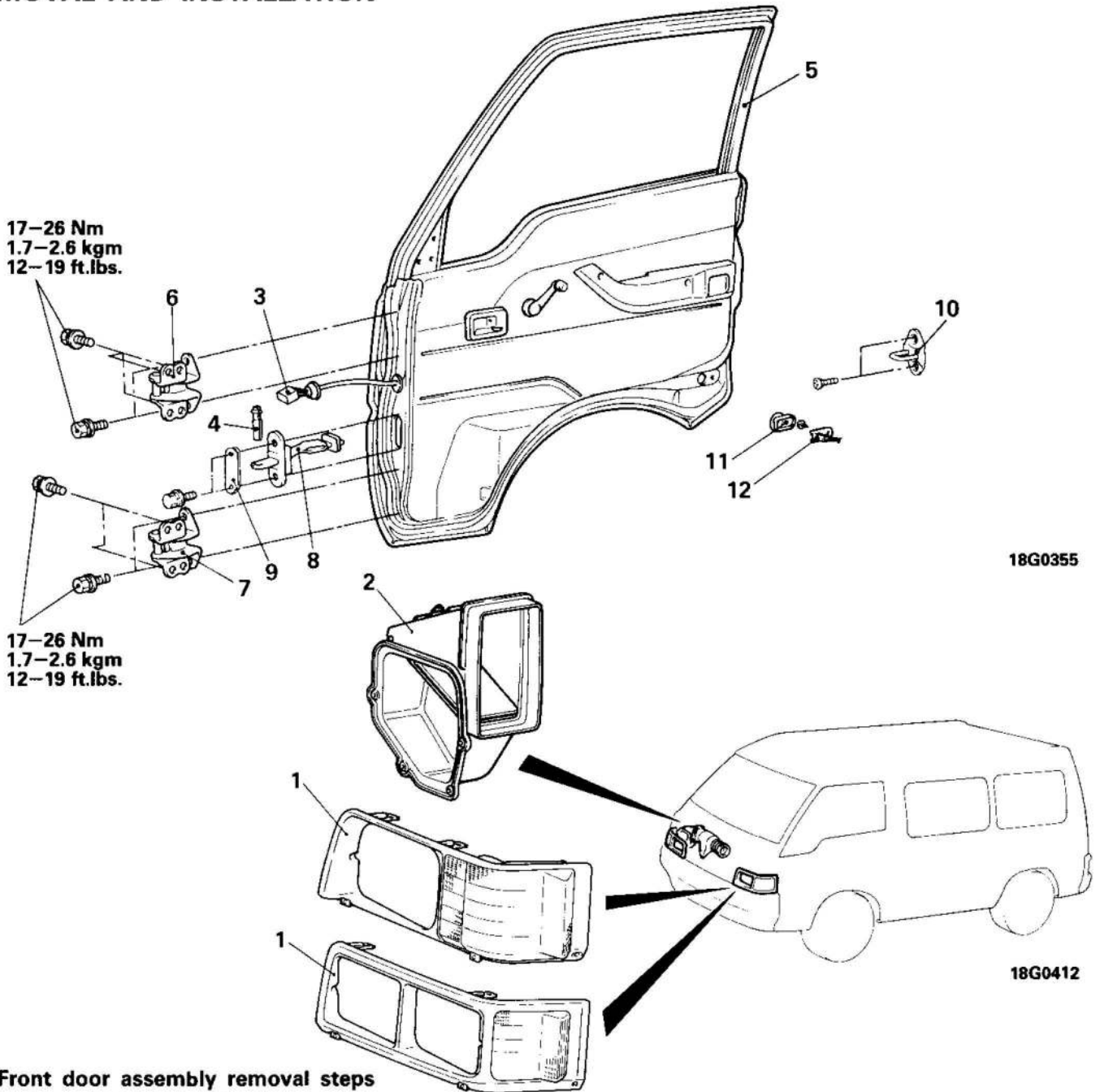
**1. INSTALLATION OF WIPER BLADE AND ARM ASSEMBLY**

Refer to GROUP 51 EXTERIOR–Tailgate Wiper and Washer.

**FRONT DOOR**

E42MAAE

**REMOVAL AND INSTALLATION**



18G0355

18G0412

**Front door assembly removal steps**

- ◆◆◆ 1. Headlamp bezel  
(vehicles with door harness)
- 2. Air flow box  
(vehicles with door harness)
- 3. Door harness connector
- ◆◆ Adjustment of front door assembly after installation
- 4. Spring pin
- 5. Front door assembly
- ◆◆ 6. Door upper hinge
- ◆◆ 7. Door lower hinge
- ◆◆ 8. Door check
- 9. Door check cover  
(vehicles for Europe and vehicles for General Export built from July 1989)

**Striker removal**

- 10. Striker

**Door switch removal steps**

- 11. Door switch cap
- 12. Door switch

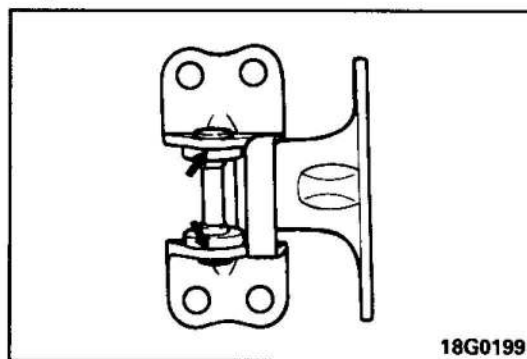
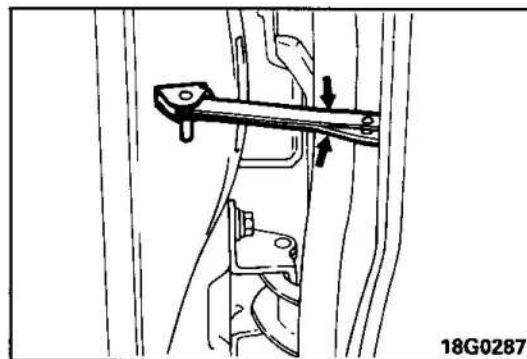
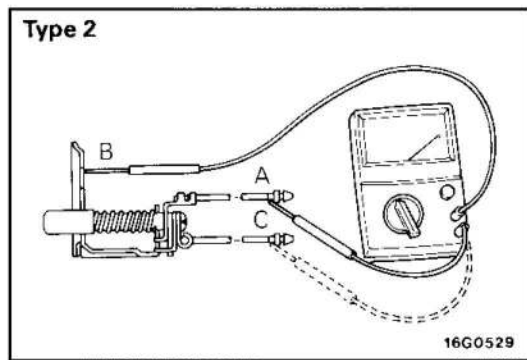
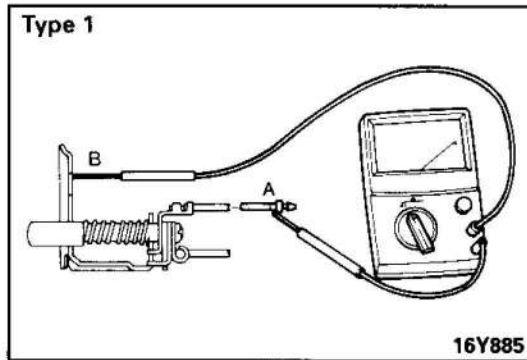
**NOTE**

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆: Refer to "Service Points of Removal".
- (3) ◆◆◆: Refer to "Service Points of Installation".

**SERVICE POINTS OF REMOVAL**

**1. REMOVAL OF HEADLAMP BEZEL**

Refer to GROUP 51 EXTERIOR–Headlamp Bezel.



**INSPECTION**

**INSPECTION OF DOOR SWITCH**

1. Remove door switch from body.
2. Operate switch and check continuity between terminals.

Type 1

Terminal	A	B
Switch position		
Release (ON)	○	○
Press in (OFF)		

Type 2

Terminal	A	B	C
Switch position			
Release (ON)	○	○	○
Press in (OFF)			

**NOTE**

○—○ indicates continuity between terminals.

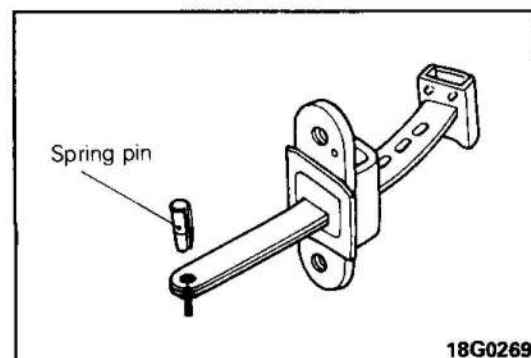
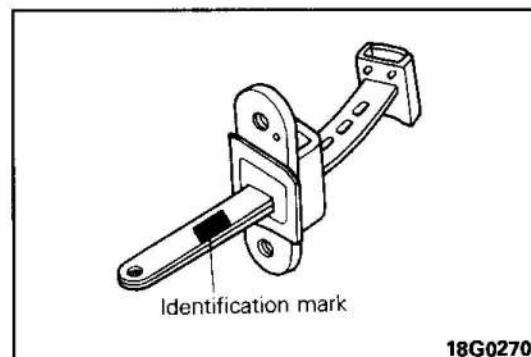
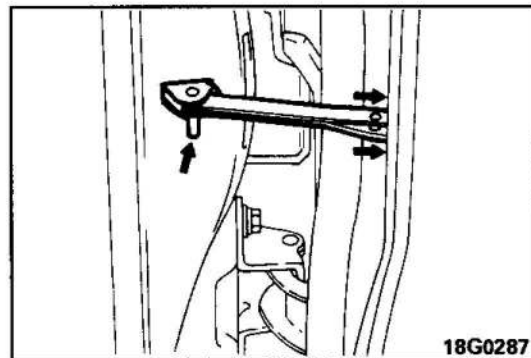
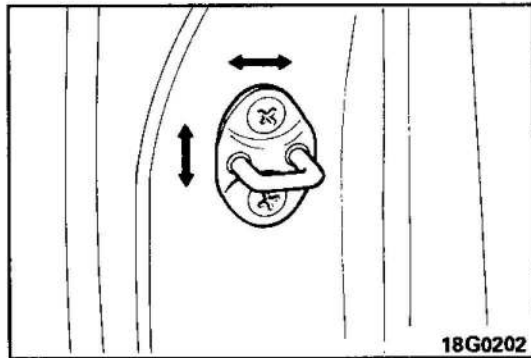
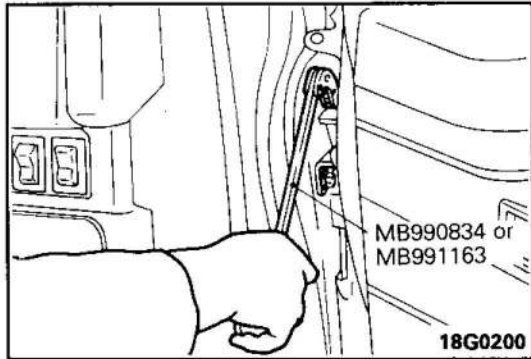
**SERVICE POINTS OF INSTALLATION**

**8. APPLICATION OF GREASE TO DOOR CHECK**

Apply multipurpose grease to door check contact area.

**7. APPLICATION OF OIL TO DOOR LOWER HINGE/6. DOOR UPPER HINGE**

Apply engine oil to door hinge as illustrated.



• **ADJUSTMENT OF FRONT DOOR ASSEMBLY AFTER INSTALLATION**

1. With special tool, loosen door hinge bolt on body side. Move door vertically and back and forth and make gap around door even.
2. Loosen door hinge bolt on door side. Move door horizontally and adjust door facing.

**Caution**

**Attach protective tape on front corner panel and bumper corner edge.**

3. Move striker vertically and horizontally and adjust front door facing and latch engagement.

**1. INSTALLATION OF HEADLAMP BEZEL**

Refer to GROUP 51 EXTERIOR—Headlamp Bezel.

**REPLACEMENT OF DOOR CHECK**

1. Press upward and remove spring pin.
2. Remove door check bolt. Remove door check.

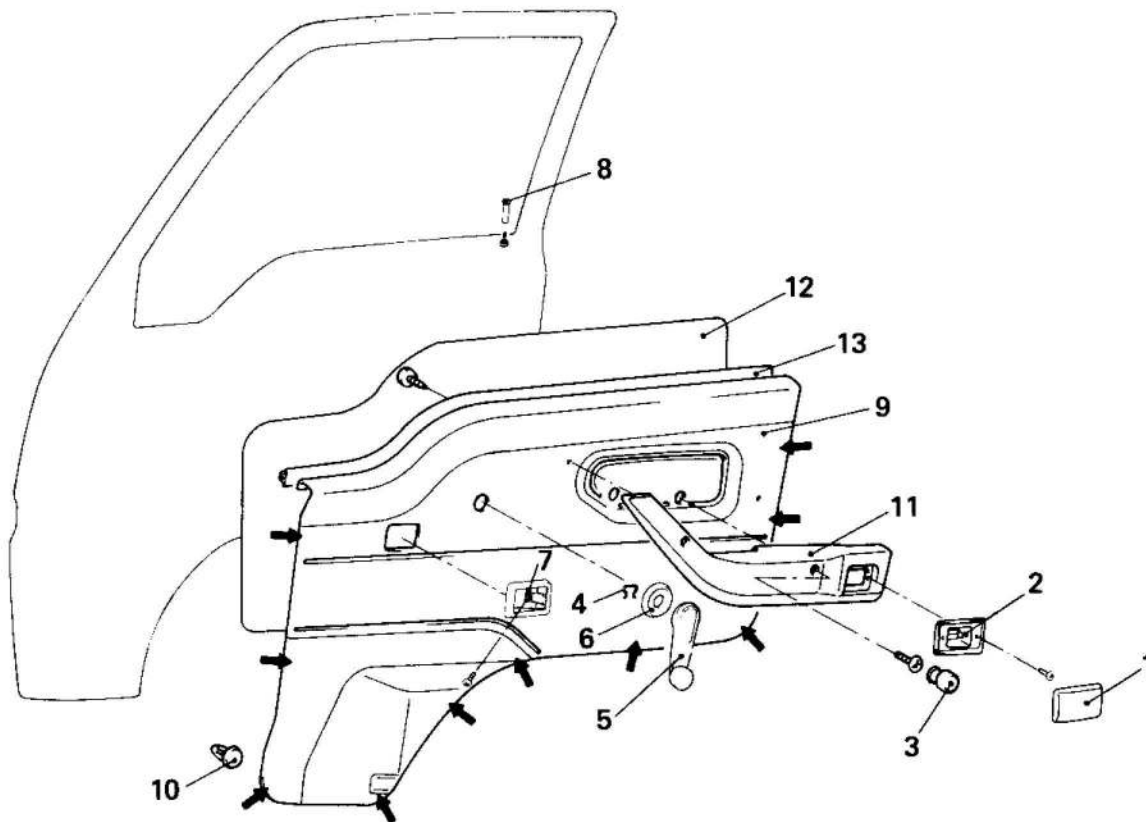
3. With the identification make upward, install door check.

Position	Item	Identification mark
Driving seat side		10R
Passenger seat side		10L

4. Apply multipurpose grease to door check spring pin hole and install spring pin.

## FRONT DOOR TRIM (TYPE A)

## REMOVAL AND INSTALLATION



18G0139

## Removal steps

1. Door courtesy lamp lens  
(vehicles for Australia)
2. Door courtesy lamp  
(vehicles for Australia)
3. Cap
4. Clip  
(vehicles without power window)
5. Regulator handle  
(vehicles without power window)
6. Escutcheon  
(vehicles without power window)
7. Inside handle cover
8. Inside lock knob
9. Door trim

10. Trim clip
11. Armrest
12. Waterproof film
13. Beltline weatherstrip inner

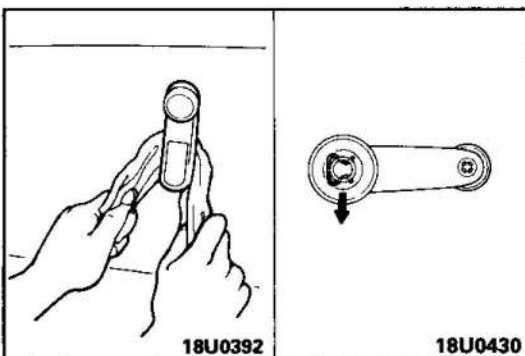
## NOTE

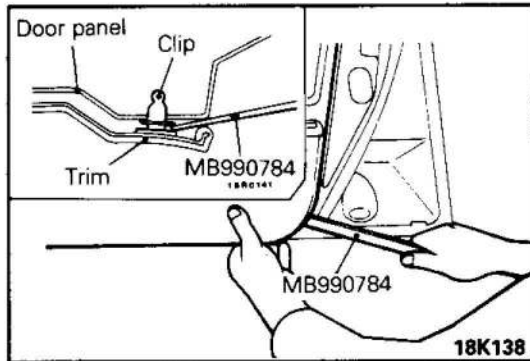
- (1) Reverse the removal procedures to reinstall.
- (2) ◀▶ : Refer to "Service Points of Removal".
- (3) ▶▶ : Refer to "Service Points of Installation".
- (4) ◀ : indicates clipping positions.

## SERVICE POINTS OF REMOVAL

## 4. REMOVAL OF CLIP

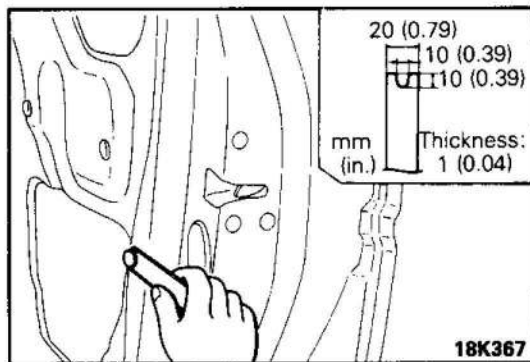
Remove clip using a piece of cloth as illustrated.





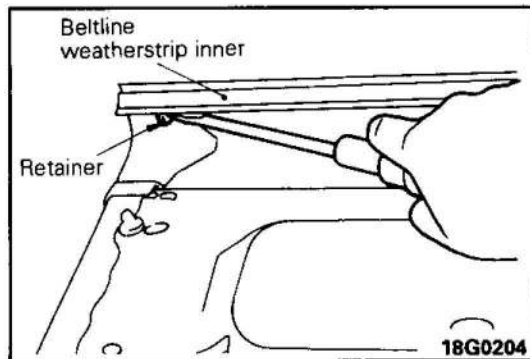
**9. REMOVAL OF DOOR TRIM**

Insert special tool between door panel and trim. Twist trim clip and remove door trim.



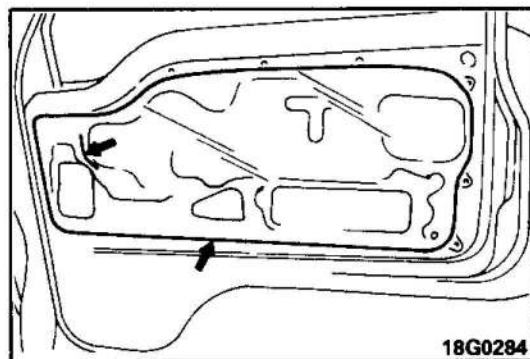
**10. REMOVAL OF TRIM CLIP**

If trim clip is left on door side when removing door trim, remove with a tool as illustrated.



**13. REMOVAL OF BELT LINE WEATHERSTRIP INNER**

Raise retainer with (-) screwdriver and remove from door trim.



**SERVICE POINTS OF INSTALLATION**

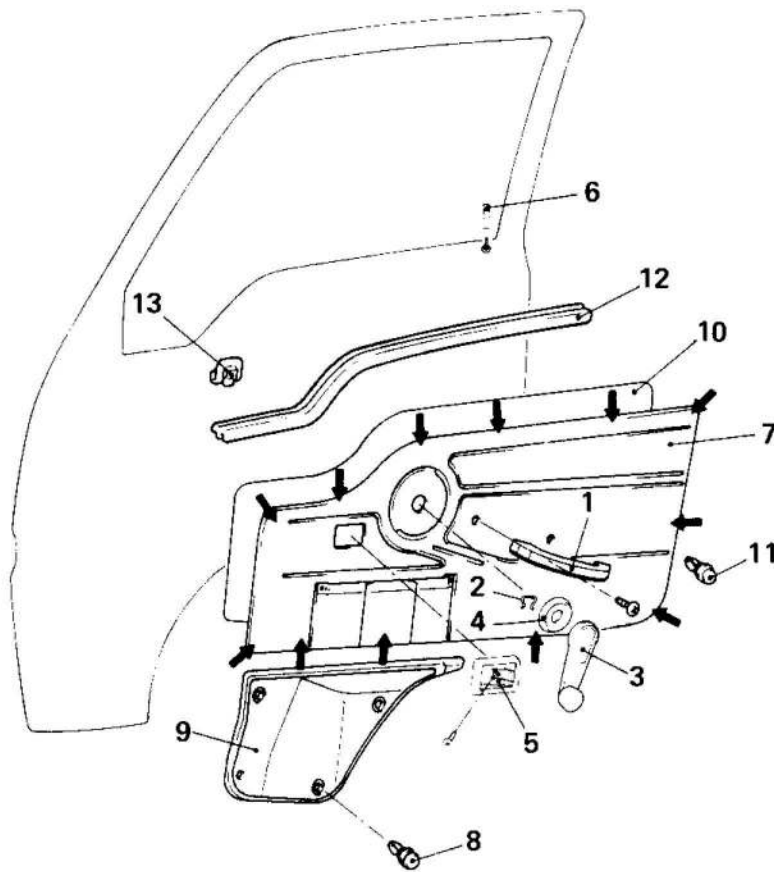
**12. INSTALLATION OF WATERPROOF FILM**

Apply specified sealant as illustrated. Install waterproof film.  
**Specified sealant: 3M ATD Part No. 8625 or equivalent**

## FRONT DOOR TRIM (TYPE B)

E42MBAJ

## REMOVAL AND INSTALLATION



## Removal steps

- ◆◆ 1. Armrest
- ◆◆ 2. Clip
- ◆◆ 3. Regulator handle
- ◆◆ 4. Escutcheon
- ◆◆ 5. Inside handle cover
- ◆◆ 6. Inside lock knob
- ◆◆ 7. Upper door trim
- ◆◆ 8. Clip
- ◆◆ 9. Lower door trim  
(vehicles for Australia)
- ◆◆◆ 10. Waterproof film
- ◆◆ 11. Trim clip
- ◆◆ 12. Beltline weatherstrip inner
- ◆◆ 13. Clip

## NOTE

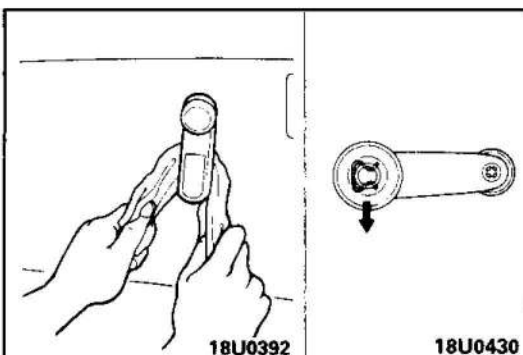
- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆ : Refer to "Service Points of Removal".
- (3) ◆◆◆ : Refer to "Service Points of Installation".
- (4) ◆ : indicates clipping positions.

18G0146

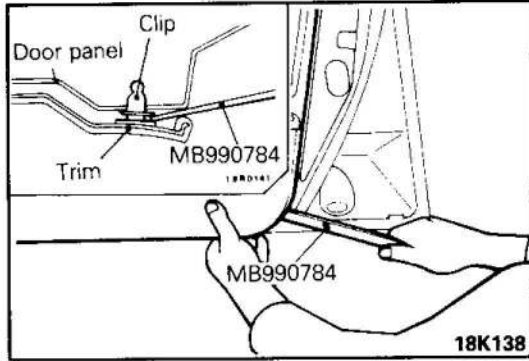
## SERVICE POINTS OF REMOVAL

## 2. REMOVAL OF CLIP

Remove clip using a piece of cloth as illustrated.

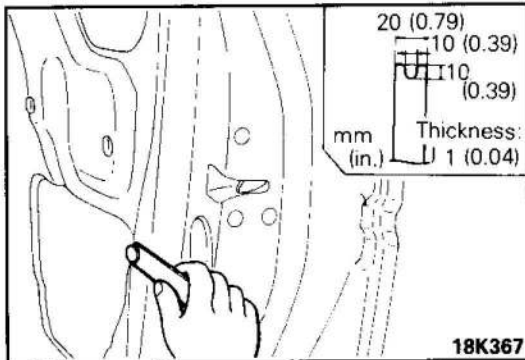






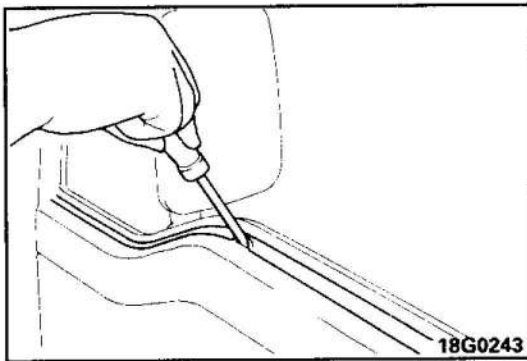
**7. REMOVAL OF UPPER DOOR TRIM/9. LOWER DOOR TRIM**

Insert special tool between door panel and trim. Twist trim clip and remove door trim.



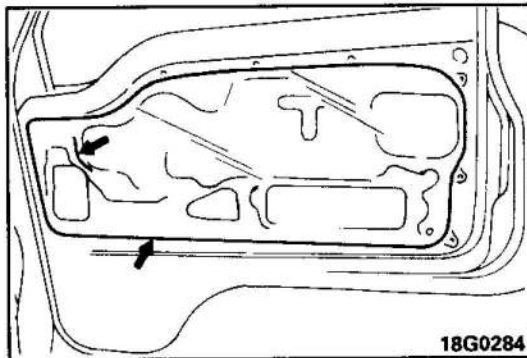
**11. REMOVAL OF TRIM CLIP**

If trim clip is left on door side when removing door trim, remove with a tool as illustrated.



**12. REMOVAL OF BELTLINE WEATHERSTRIP INNER**

Remove beltline weatherstrip inner with screwdriver or similar tool.



**SERVICE POINTS OF INSTALLATION**

**10. INSTALLATION OF WATERPROOF FILM**

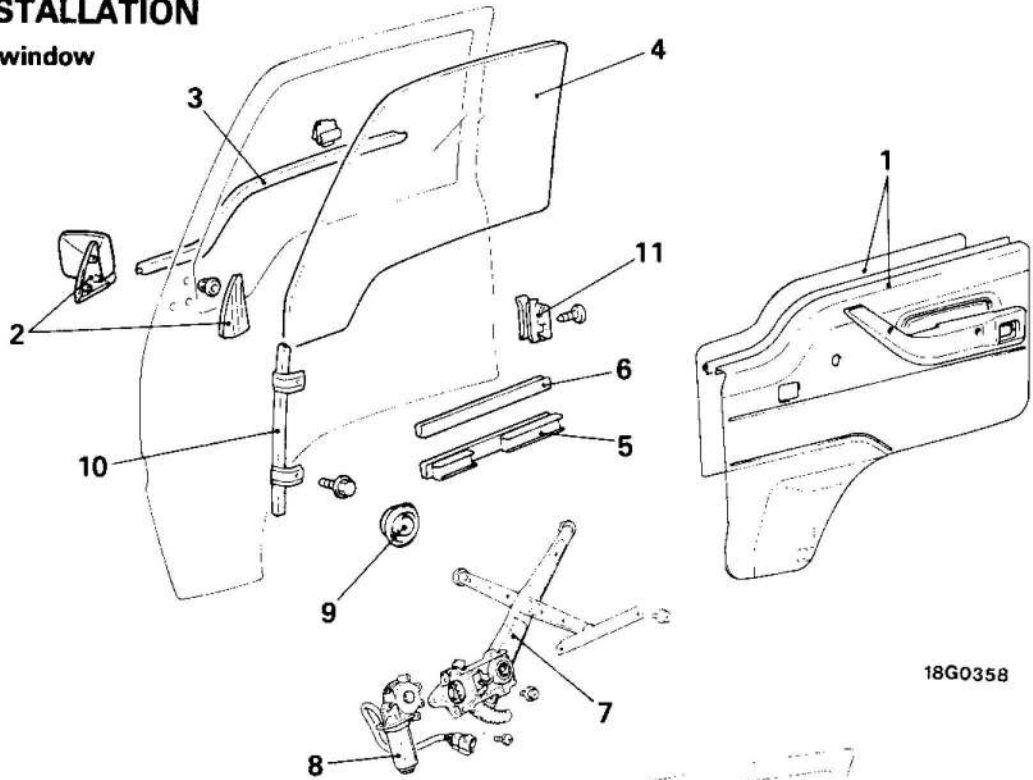
Apply specified sealant as illustrated. Install waterproof film.

**Specified sealant: 3M ATD Part No. 8625 or equivalent**

# FRONT DOOR GLASS AND REGULATOR

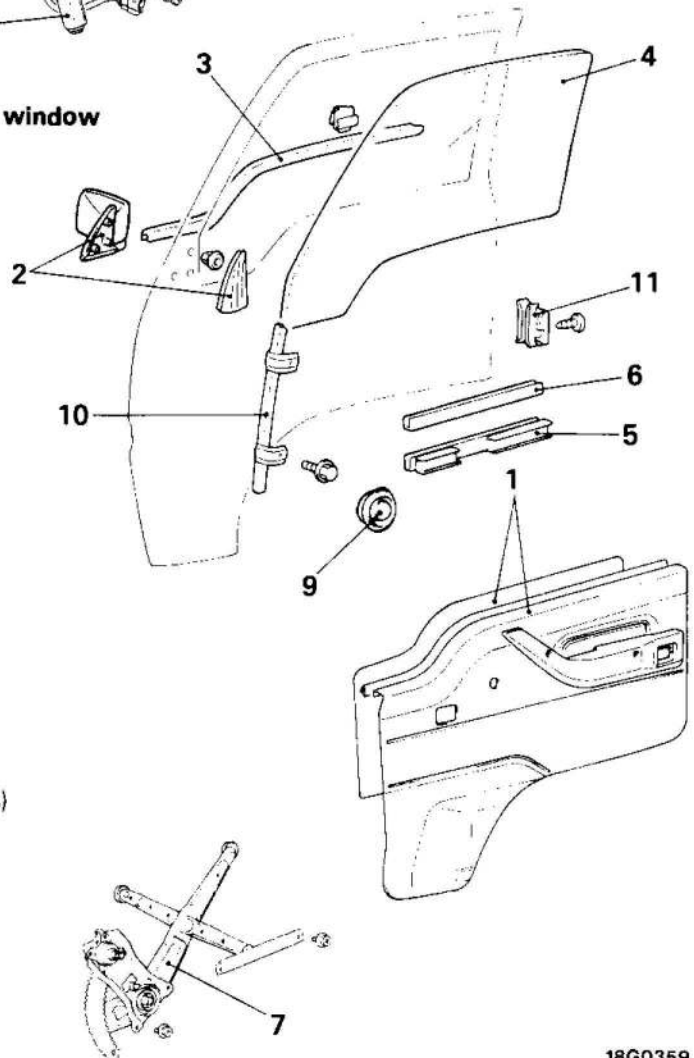
## REMOVAL AND INSTALLATION

Vehicles with a power window



18G0358

Vehicles without a power window



18G0359

### Removal steps

- ◆◆◆◆ 1. Door trim and waterproof film
- ◆◆◆◆ 2. Door mirror
- ◆◆ 3. Beltline weatherstrip outer
- ◆◆ Adjustment of door window glass
- ◆◆ 4. Door window glass
- ◆◆ 5. Door glass holder
- ◆◆ 6. Door glass pad
- ◆◆◆◆ 7. Window regulator assembly
- ◆◆ 8. Power window motor  
(vehicles equipped with power windows)
- ◆◆ 9. Plug
- ◆◆ 10. Lower sash
- ◆◆ 11. Door glass guide

### NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆◆◆ : Refer to "Service Points of Removal".
- (3) ◆◆◆ : Refer to "Service Points of Installation".

**SERVICE POINTS OF REMOVAL**

**1. REMOVAL OF DOOR TRIM AND WATERPROOF FILM**

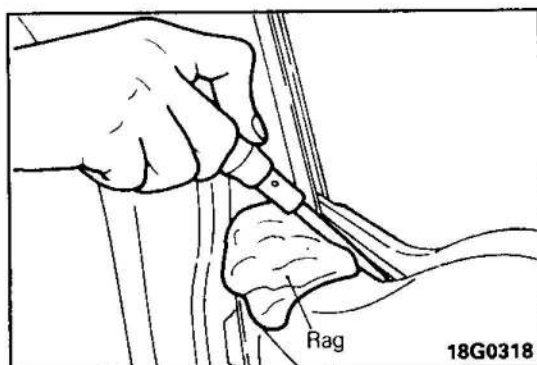
Refer to P. 42-30, 32.

**2. REMOVAL OF DOOR MIRROR**

Refer to GROUP 51 EXTERIOR-Door Mirror.

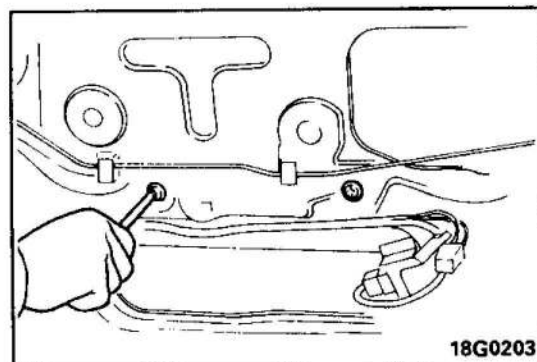
**3. REMOVAL OF BELTLINE WEATHERSTRIP OUTER**

Remove the beltline weatherstrip outer from the fixing clips by prying upward with a screwdriver.

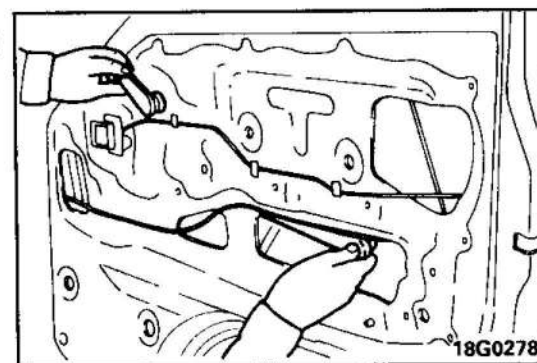


**4. REMOVAL OF DOOR WINDOW GLASS**

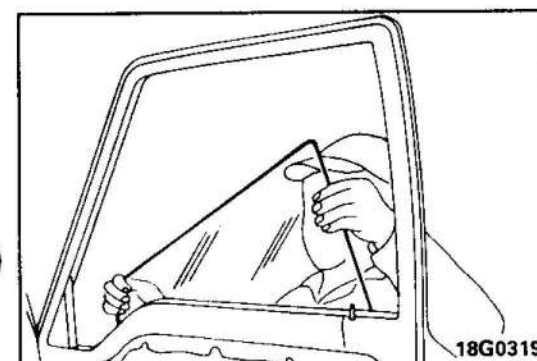
(1) Lower door glass completely. Remove guide channel screws.

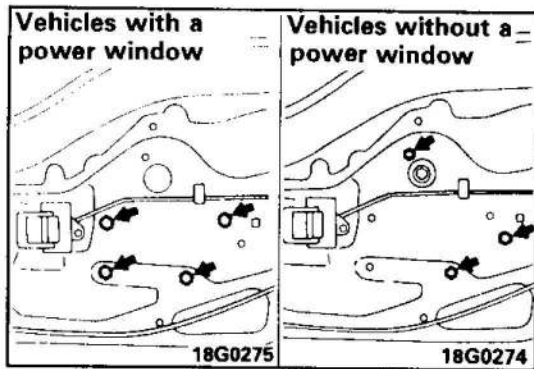


(2) Lift door glass slowly, incline glass and detach arm roller from channel. Remove door glass from roller.



(3) Gently pull out the door glass upward while tilting it so that the rear end of the glass comes up to the top.





### 7. REMOVAL OF WINDOW REGULATOR ASSEMBLY

Remove the regulator mounting bolts, and then remove the regulator from the access hole.

#### NOTE

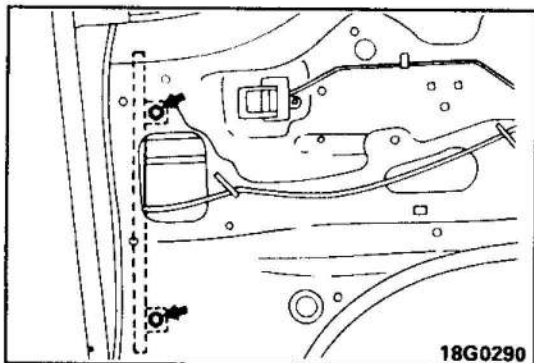
Hold the regulator assembly so that it does not drop off when bolts are removed.

### 8. REMOVAL OF POWER WINDOW MOTOR

- (1) Remove the window regulator mounting bolts.
- (2) Disconnect the power window motor from the regulator.

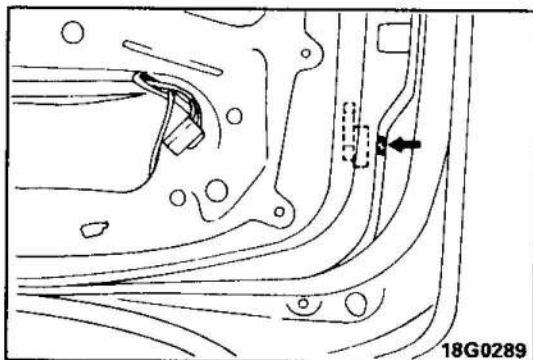
#### Caution

**Because the force of the regulator spring may cause the regulator arm to jump up when the screws attaching the motor to the window regulator are removed, remove the regulator spring before removing the screws.**



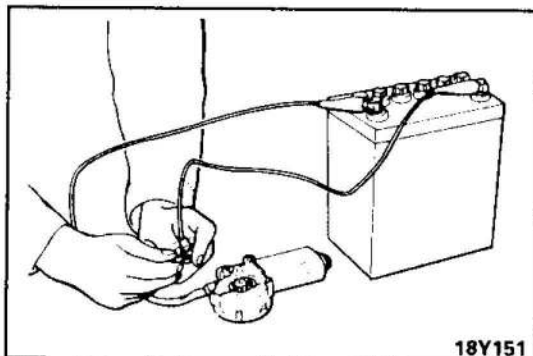
### 10. REMOVAL OF LOWER SASH

Remove the lower sash mounting bolts, and then remove the lower sash from the access hole.



### 11. REMOVAL OF DOOR GLASS GUIDE

Remove the door glass guide mounting bolt, and then remove the door glass guide from the access hole.



## INSPECTION

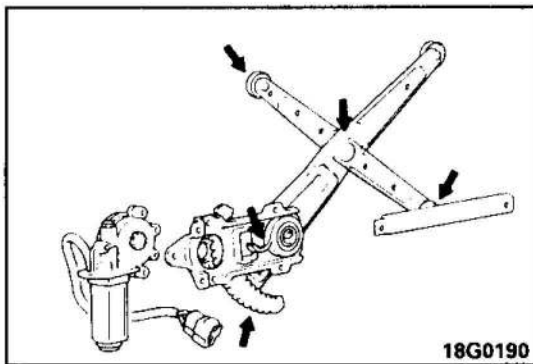
### POWER WINDOW MOTOR

Connect the motor terminals directly to the battery and check that the motor operates smoothly. Next, reverse the polarity and check that the motor operates smoothly in the reverse direction.

**CIRCUIT BREAKER**

Check the circuit breaker incorporated in the motor, as described below, after installing the motor and regulator to the body.

1. Press the UP switch to fully close the window glass, and continue to press the switch for 10 seconds.
2. At the moment that the UP switch is released, press the DOWN switch. The circuit breaker can be considered good if at this time the door window glass begins to open within 60 seconds.



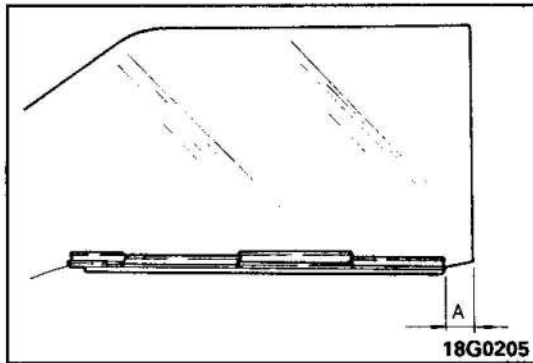
18G0190

**SERVICE POINTS OF INSTALLATION**

**7. APPLICATION OF GREASE TO WINDOW REGULATOR ASSEMBLY**

Apply specified grease to regulator contact surface, regulator and power window motor gear engaging area and regulator spring.

**Specified grease: Multipurpose grease SAE J310, NLGI No. 2**

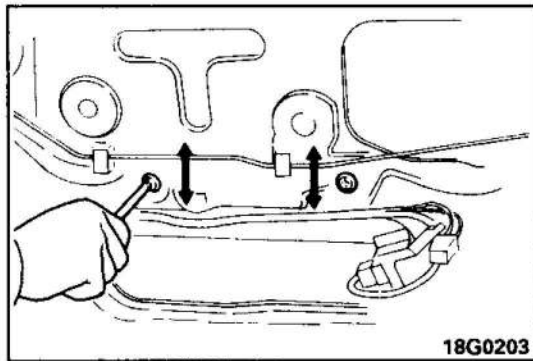


18G0205

**6. INSTALLATION OF DOOR GLASS PAD/5. DOOR GLASS HOLDER**

Install door glass pad and door glass holder on door glass as illustrated.

**Standard value (A): 37.2–37.8 mm (1.36–1.50 in.)**

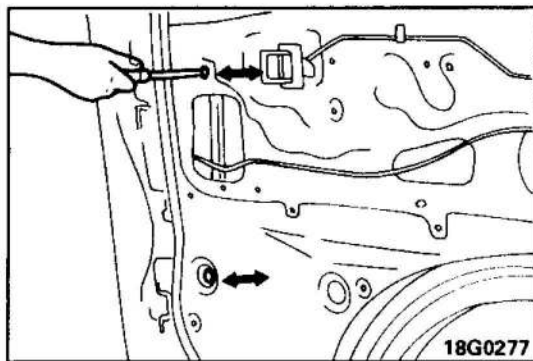


18G0203

**• DOOR WINDOW GLASS ADJUSTMENT**

**1. SASH AND DOOR GLASS CONTACT**

Loosen regulator assembly channel guide bolt. Move channel guide vertically and adjust contact with sash.



18G0277

**2. REGULATOR HANDLE OPERATION**

Check contact with sash. Loosen lower sash bolts. Move sash horizontally and adjust regulator handle operation.

**2. INSTALLATION OF DOOR MIRROR**

Refer to GROUP 51 EXTERIOR—Door Mirror.

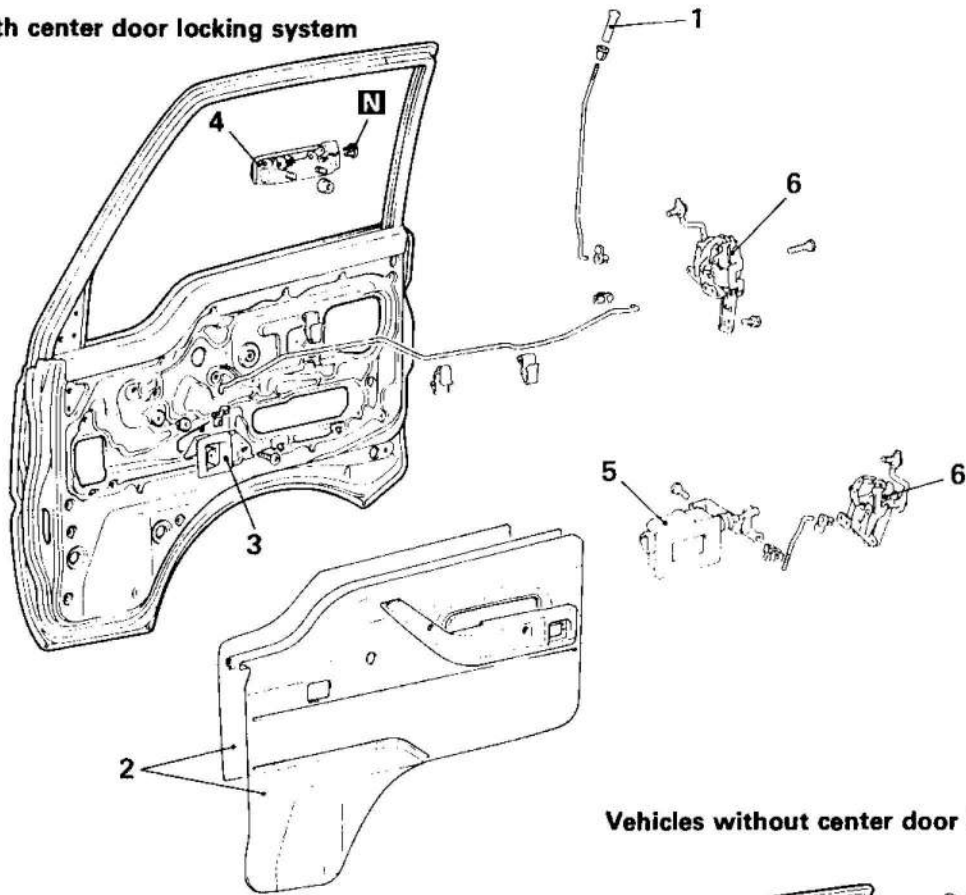
**1. INSTALLATION OF DOOR TRIM AND WATERPROOF FILM**

Refer to P. 42–30, 32.

# FRONT DOOR HANDLE AND LATCH

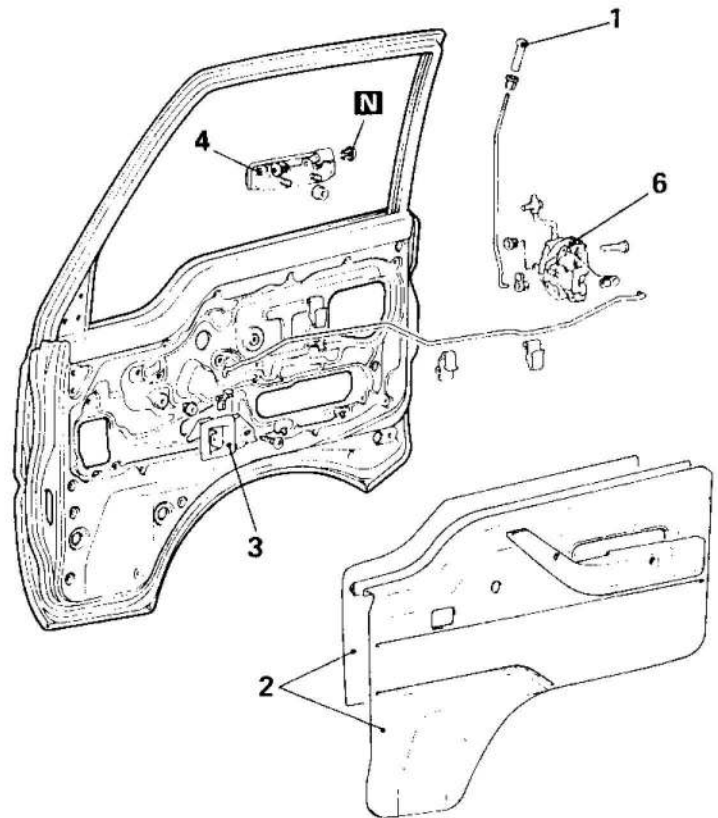
## REMOVAL AND INSTALLATION

Vehicles with center door locking system



18G0345

Vehicles without center door locking system



### Removal steps

1. Inside lock knob
- ◆◆◆◆ 2. Door trim and waterproof film  
◆◆ Adjustment of inside handle
- ◆◆◆ 3. Inside handle  
◆◆ Adjustment of outside handle
- ◆◆◆◆ 4. Outside handle
- ◆◆◆ 5. Door lock actuator
- ◆◆◆ 6. Door latch assembly

### NOTE

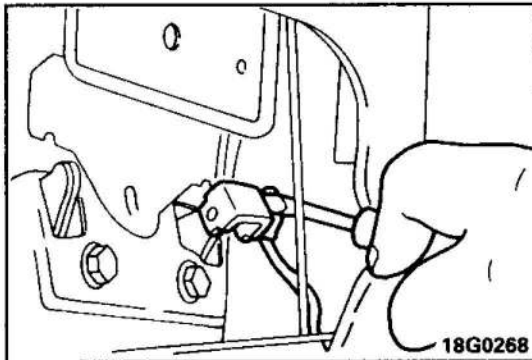
- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆◆ : Refer to "Service Points of Removal".
- (3) ◆◆◆ : Refer to "Service Points of Installation".
- (4) [N] : Non-reusable parts

18G0367

**SERVICE POINTS OF REMOVAL**

**2. REMOVAL OF DOOR TRIM AND WATERPROOF FILM**

Refer to P. 42-30, 32.

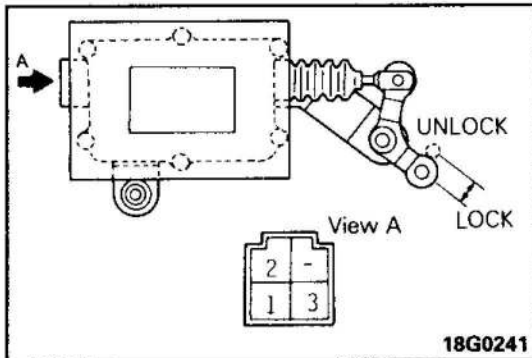


**4. REMOVAL OF OUTSIDE HANDLE**

Remove outside handle rod on outside handle side. Remove outside handle.

**Caution**

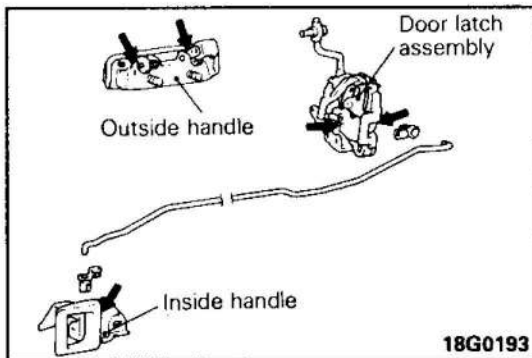
**When removing outside handle rod, rod snap must be replaced.**



**INSPECTION**

**DOOR LOCK ACTUATOR**

Set actuator lever at UNLOCK position. Connect battery to terminal "1". Check that lever operates to LOCK position when terminal "2" is earthed. Also, setting lever at LOCK position, connect battery to terminal "2". Check that lever operates to UNLOCK position when terminal "1" is earthed.

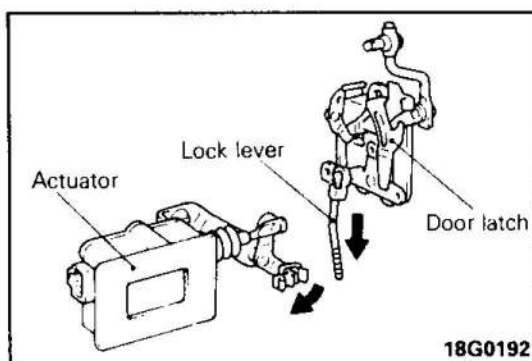


**SERVICE POINTS OF INSTALLATION**

**6. APPLICATION OF GREASE TO DOOR LATCH ASSEMBLY/4. OUTSIDE HANDLE/3. INSIDE HANDLE**

Apply specified grease to all rotating and contact surfaces.

**Specified grease: Multipurpose grease SAE J310, NLGI No. 2**



**5. INSTALLATION OF DOOR LOCK ACTUATOR**

- (1) Install actuator on door panel.
- (2) Set door latch lock lever and actuator lever at LOCK position.
- (3) Install door latch rod and actuator.

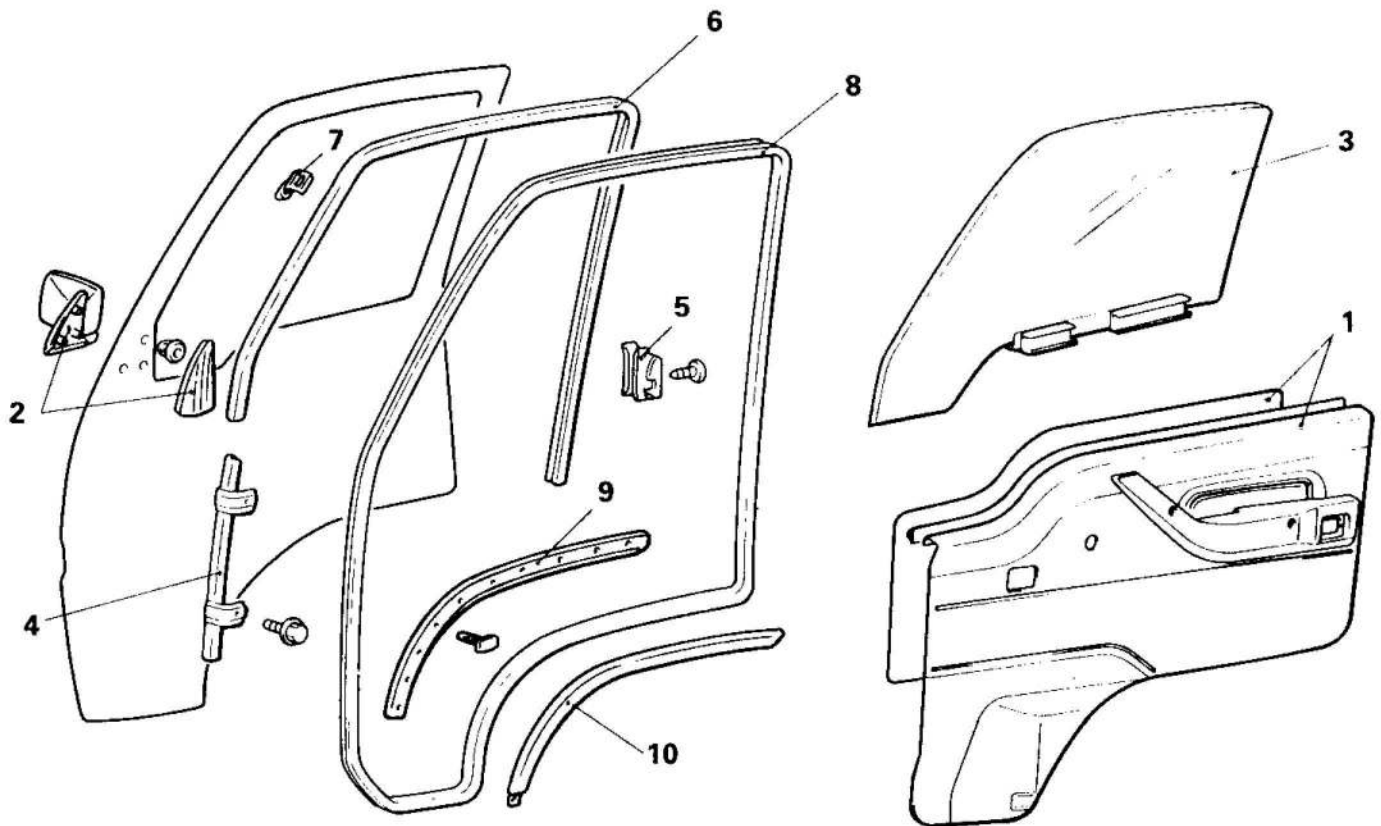
- **ADJUSTMENT OF OUTSIDE HANDLE PLAY**  
Refer to P. 42-10.
- **ADJUSTMENT OF INSIDE HANDLE PLAY**  
Refer to P.42-11.
- 2. **INSTALLATION OF DOOR TRIM AND WATERPROOF FILM**  
Refer to P. 42-30, 32.



# FRONT DOOR WINDOW GLASS RUNCHANNEL AND DOOR OPENING WEATHERSTRIP

E42MEAC

## REMOVAL AND INSTALLATION



18G0360

### Window glass runchannel removal steps

- ◆◆◆◆ 1. Door trim and waterproof film
- ◆◆◆◆ 2. Door mirror
- ◆◆◆◆ 3. Door window glass assembly
- ◆◆◆◆ 4. Lower sash
- ◆◆◆◆ 5. Door glass guide
- ◆◆◆◆ 6. Door window glass runchannel
- ◆◆◆◆ 7. Door glass catch

### Door opening weatherstrip removal steps

- ◆◆ 8. Door opening weatherstrip
- ◆◆ 9. Outer weatherstrip (lower)
- ◆◆ 10. Wheelhouse weatherstrip

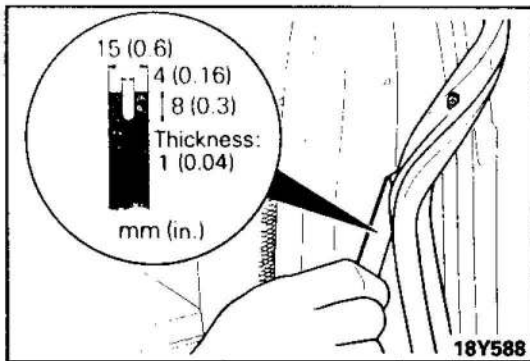
### NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆ : Refer to "Service Points of Removal".
- (3) ◆◆ : Refer to "Service Points of Installation".

### SERVICE POINTS OF REMOVAL

1. **REMOVAL OF DOOR TRIM AND WATERPROOF FILM**  
Refer to P. 42-30, 32.
2. **REMOVAL OF DOOR MIRROR**  
Refer to GROUP 51-Door Mirror.
3. **REMOVAL OF DOOR WINDOW GLASS ASSEMBLY**  
Refer to P. 42-34.

## 42-42 BODY – Front Door Window Glass Runchannel and Door Opening Weatherstrip



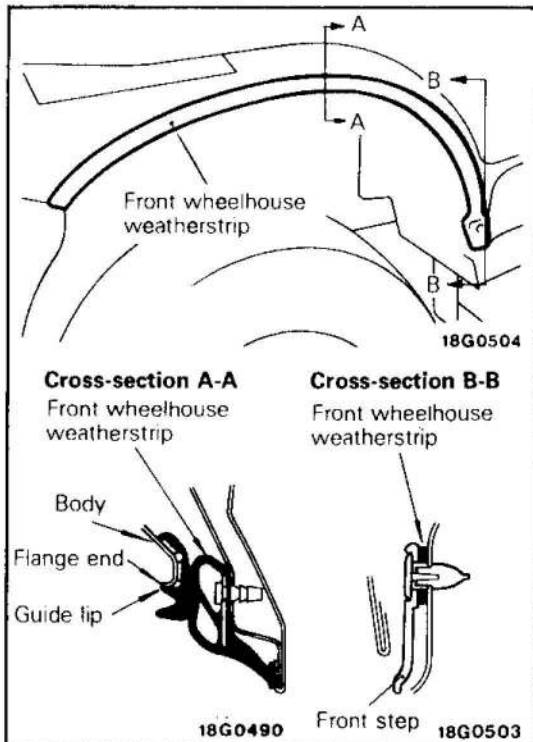
### 8. REMOVAL OF DOOR OPENING WEATERSTRIP/9. OUTER WEATERSTRIP (LOWER)

Remove weatherstrip with tool as illustrated.

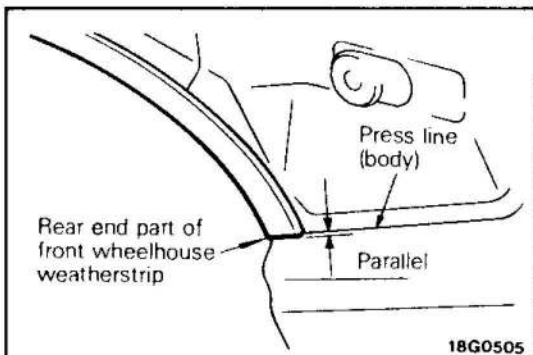
## SERVICE POINTS OF INSTALLATION

### 10. INSTALLATION OF WHEELHOUSE WEATHERSTRIP

- (1) Use an organic solvent (such as toluene, unleaded petrol, etc.) to remove oils and grease from the adhesion surface.
- (2) If the atmospheric temperature is 10°C (50°F) or lower, apply heat to the front wheelhouse weatherstrip so as to warm it to 20°–40°C (68°–104°F).
- (3) Align the hole in the end of the front wheelhouse weatherstrip with the front step installation hole, and then install with the guide lip in contact with the flange at the body side.
- (4) Peel off the backing paper from the front wheelhouse weatherstrip, and then attach while applying continuous pressure to the adhesive tape part. Special care should be taken to be sure that the rear end is securely attached.



- (5) Install so that the rear end part of the front wheelhouse weatherstrip is parallel with the body's press line.



### 3. INSTALLATION OF DOOR WINDOW GLASS ASSEMBLY

Refer to P. 42–34.

### 2. INSTALLATION OF DOOR MIRROR

Refer to GROUP 51–Door Mirror.

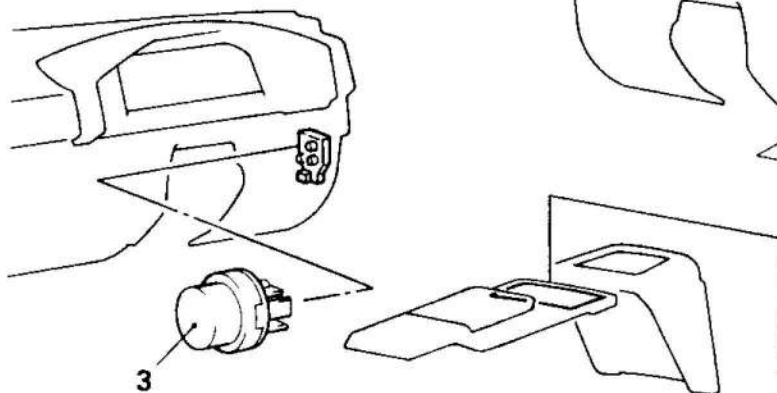
### 1. INSTALLATION OF DOOR TRIM AND WATERPROOF FILM

Refer to P. 42–30, 32.

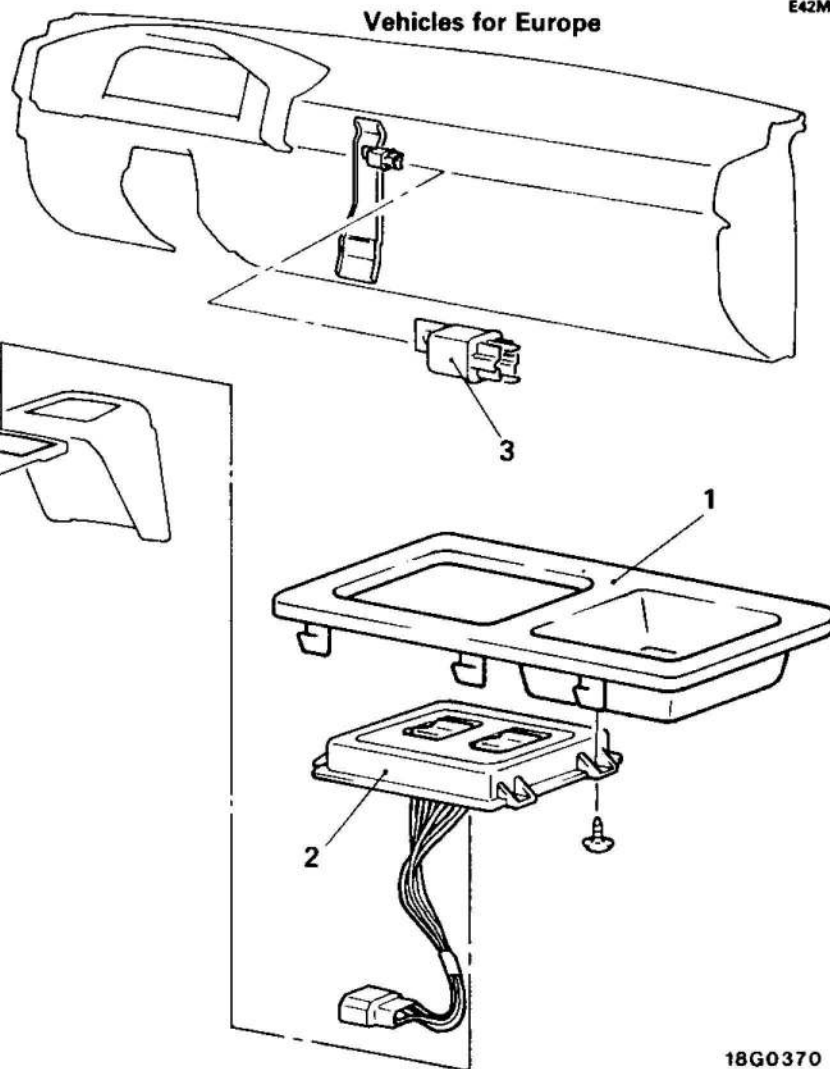
**FRONT POWER WINDOW  
REMOVAL AND INSTALLATION**

E42MIEE

Vehicles for Australia



Vehicles for Europe



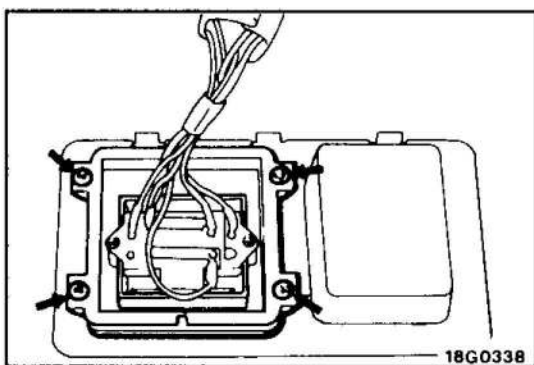
**Removal steps**

- ◆◆ 1. Switch panel
- ◆◆ 2. Front power window switch
- ◆◆ 3. Front power window relay

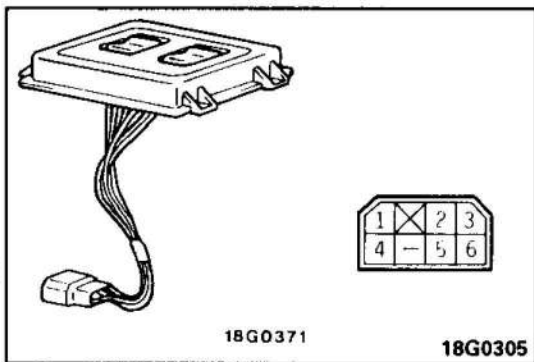
**NOTE**

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆ : Refer to "Service Points of Removal".

18G0370



18G0338



18G0371

18G0305

**SERVICE POINTS OF REMOVAL**

**2. REMOVAL OF FRONT POWER WINDOW SWITCH**

Remove center console switch panel. Remove front power window switch screw at the rear of switch panel. Remove front power window switch from switch panel.

**INSPECTION**

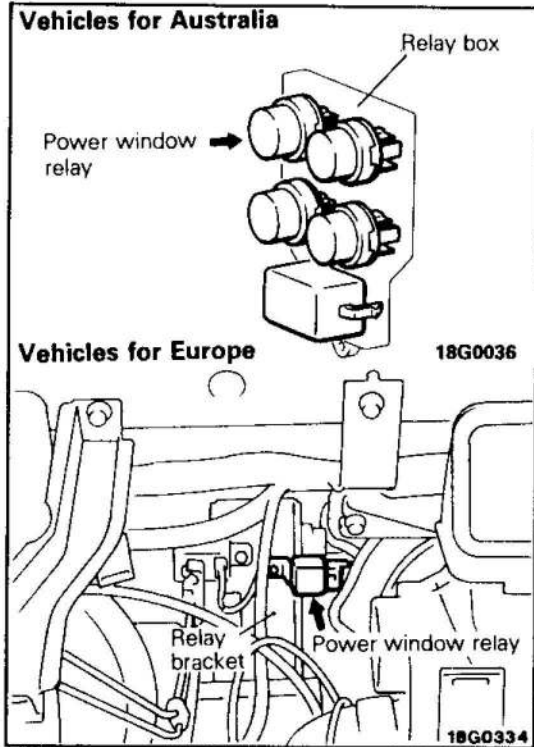
**1. FRONT POWER WINDOW SWITCH**

Operate switch and check continuity between terminals.

Terminal	Front power window switch							
	Driving seat side				Passenger seat side			
Switch position	3	1	6	4	2	1	5	4
UP	○	○	○	○	○	○	○	○
OFF	○	○	○	○	○	○	○	○
DOWN	○			○	○			○
		○	○			○	○	

**NOTE**

○-○ indicates continuity between terminals.



**2. FRONT POWER WINDOW RELAY**

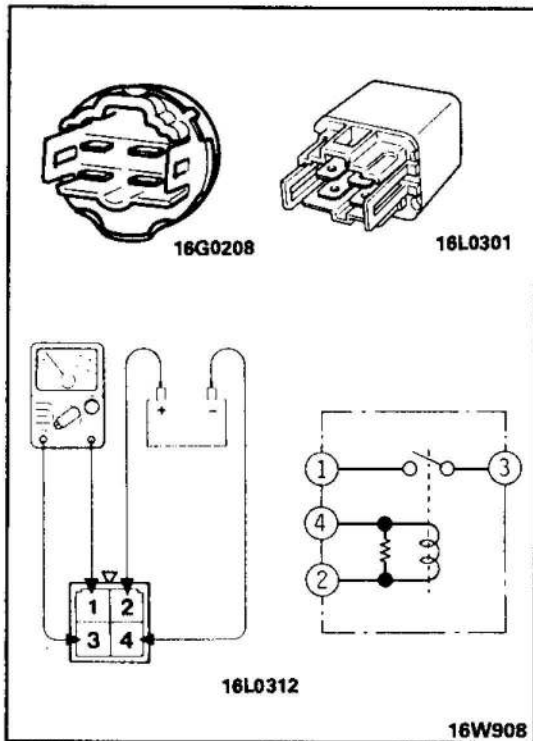
- (1) Remove power window relay from relay box.  
(vehicles for Australia)
- (2) Remove power window relay from relay bracket.  
(vehicles for Europe)

Battery voltage \ Terminal	1	2	3	4
No power		○	—	○
With power	○	—	○	

**NOTE**

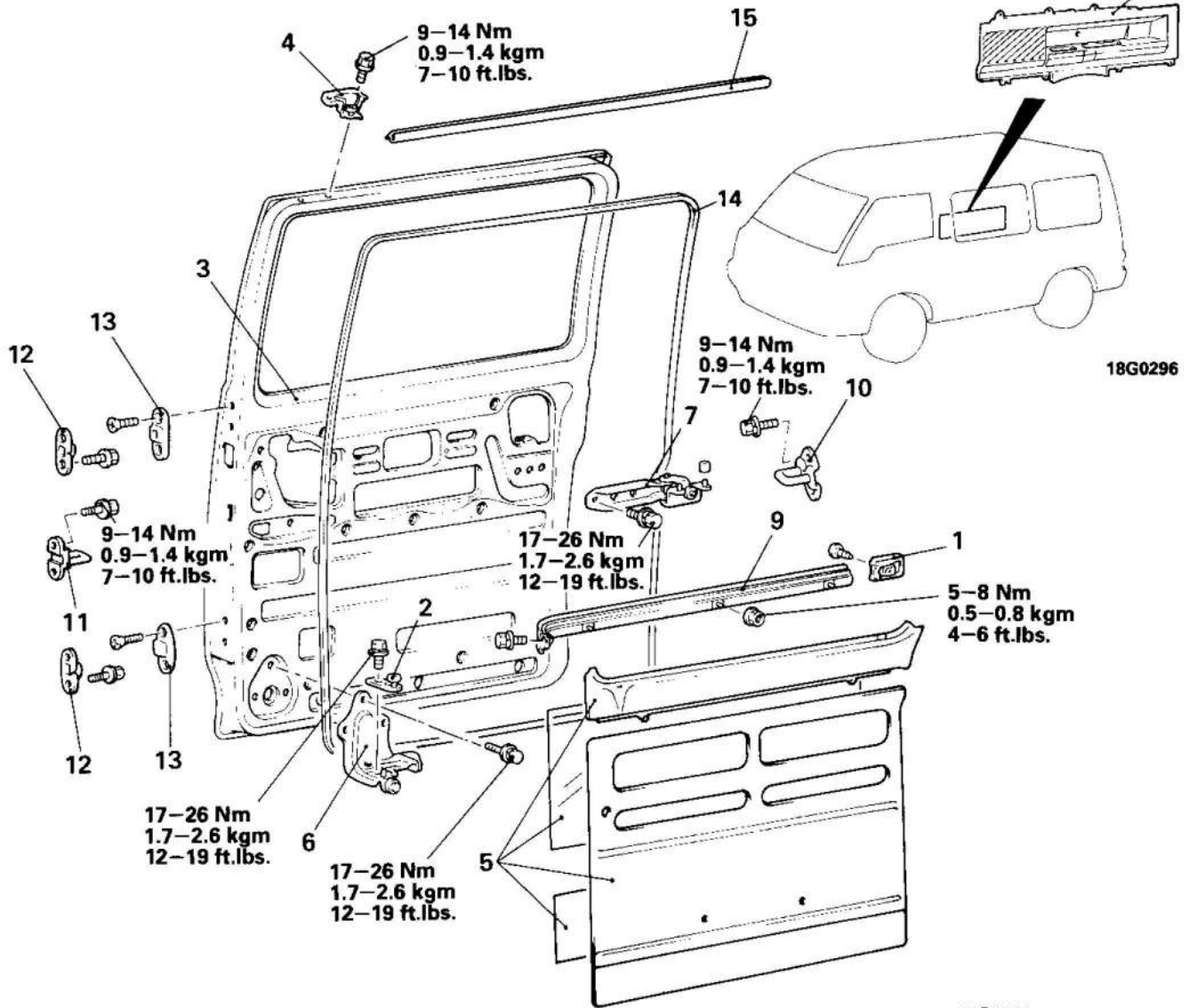
○—○ indicates continuity between terminals.

- (3) Connect battery to terminal "2". Check continuity between terminals when terminal "4" is earthed.



**REAR DOOR**

**REMOVAL AND INSTALLATION**



**Removal steps of rear door**

- 1. Center rail garnish
- 2. Lower roller arm B
- ◆◆ 3. Rear door assembly
- ◆◆ 4. Upper roller arm
- ◆◆ 5. Door trim and waterproof film
- 6. Lower roller arm A
- 7. Center roller arm
- ◆◆ 8. Rear quarter trim
- 9. Center rail

**Removal steps of striker and stopper**

- 10. Striker
- 11. Striker (Vehicles with sub latch)
- 12. Stopper A
- 13. Stopper B

**Removal steps of opening weatherstrip**

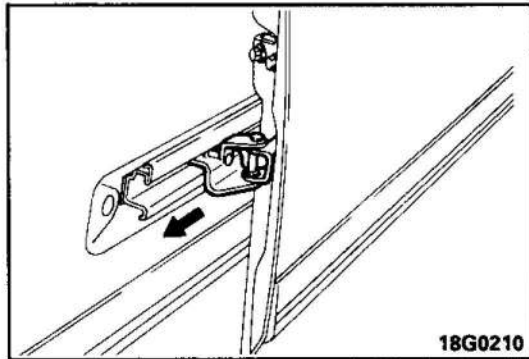
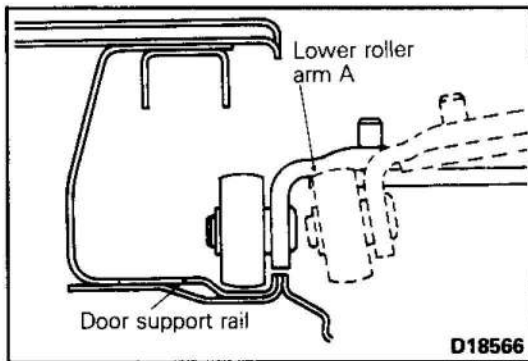
- 14. Rear door opening weatherstrip
- 15. Rear door upper weatherstrip

**Installation steps of rear door**

- 9. Center rail
- ◆◆ 8. Rear quarter panel
- ◆◆ 7. Center roller arm
- ◆◆ 6. Lower roller arm A
- ◆◆ 4. Upper roller arm
- 3. Rear door assembly
- ◆◆ 2. Lower roller arm B
- ◆◆ Inspection and adjustment after installing rear door assembly
- ◆◆ 5. Door trim and waterproof film
- 1. Center rail garnish

**NOTE**

- (1) Reverse the removal procedures to reinstall the striker, stopper and opening weatherstrip.
- (2) ◆◆: Refer to "Service Points of Removal".
- (3) ◆◆: Refer to "Service Points of Installation".



## SERVICE POINTS OF REMOVAL

### 3. REMOVAL OF REAR DOOR ASSEMBLY

- (1) Remove lower roller arm A from door support rail.
- (2) With upper roller arm on door, remove from flange notch on upper rail rear.

- (3) Move rear door backward. Remove roller arm from center rail and remove rear door.

### 5. REMOVAL OF DOOR TRIM AND WATERPROOF FILM

Refer to P.42-47.

### 8. REMOVAL OF REAR QUARTER TRIM

Refer to GROUP 52 INTERIOR-Rear Quarter Trim.

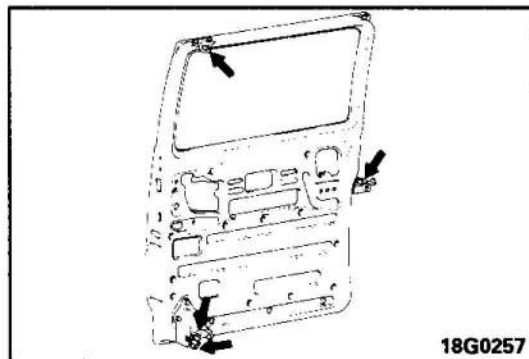
## SERVICE POINTS OF INSTALLATION

### 8. INSTALLATION OF REAR QUARTER TRIM

Refer to GROUP 52 INTERIOR-Rear Quarter Trim.

### 7. APPLICATION OF GREASE TO CENTER ROLLER ARM/6. LOWER ROLLER ARM A/4. UPPER ROLLER ARM/2. LOWER ROLLER ARM B

Apply the multipurpose grease onto the each sliding part.



### • INSPECTION AND ADJUSTMENT OF REAR DOOR AFTER INSTALLATION

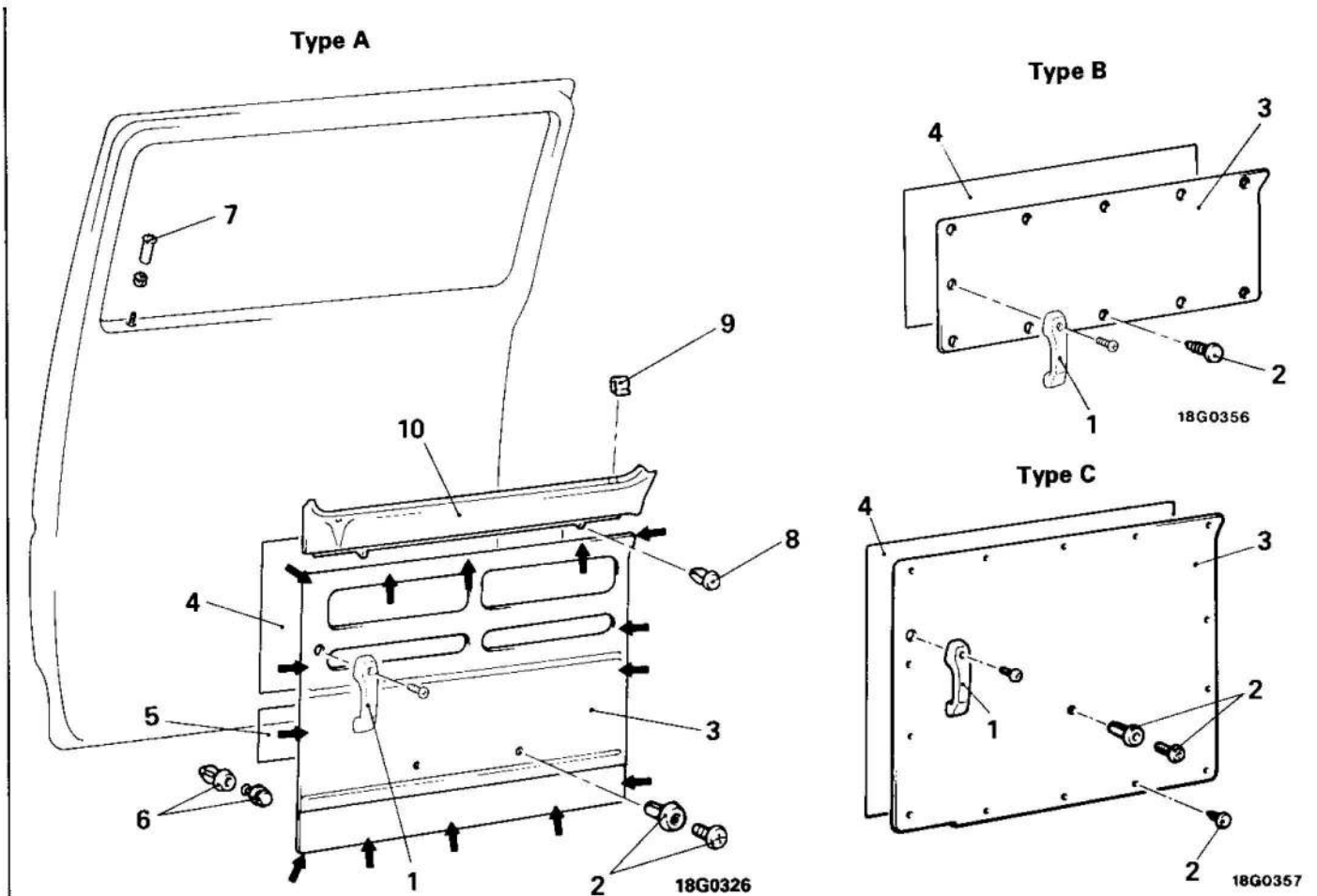
Refer to P.42-11.

### 5. INSTALLATION OF DOOR TRIM AND WATERPROOF FILM

Refer to P.42-47.

# REAR DOOR TRIM

## REMOVAL AND INSTALLATION

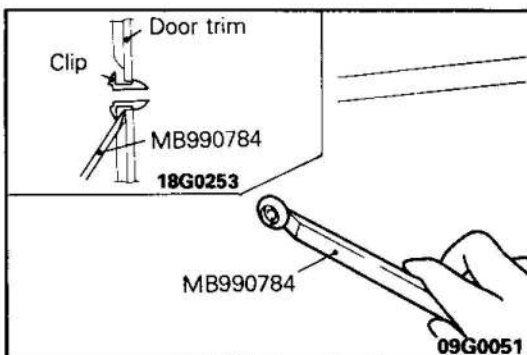


### Removal steps

- 1. Inside handle
- ◆◆ 2. Clip
- ◆◆ 3. Door trim
- ◆◆◆ 4. Waterproof film
- ◆◆◆ 5. Waterproof film (Vehicles with sub latch)
- ◆◆ 6. Trim clip
- ◆◆ 7. Inside lock knob (type A)
- ◆◆ 8. Clip (type A)
- ◆◆◆◆ 9. Clip (type A)
- ◆◆◆◆ 10. Upper trim (type A)

### NOTE

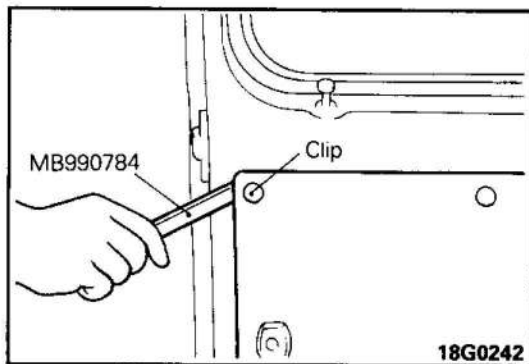
- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆ : Refer to "Service Points of Removal".
- (3) ◆◆◆ : Refer to "Service Points of Installation".
- (4) ◆ : Clipping position



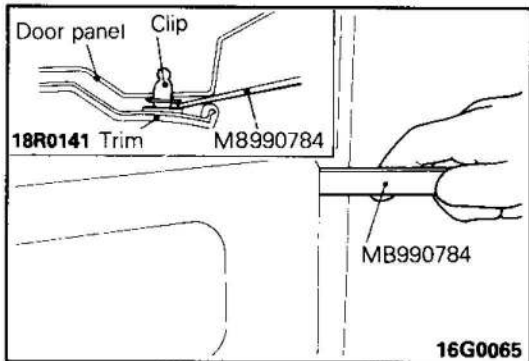
### SERVICE POINTS OF REMOVAL

#### 2. REMOVAL OF CLIP (Type A/Type C)

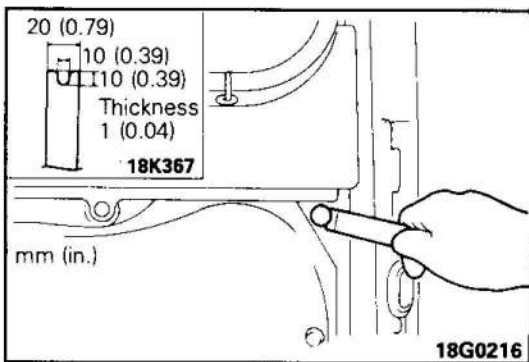
Loosen clip installing screw. Insert special tool between door trim and clip. Twist clip to remove.

**(Type B/Type C)**

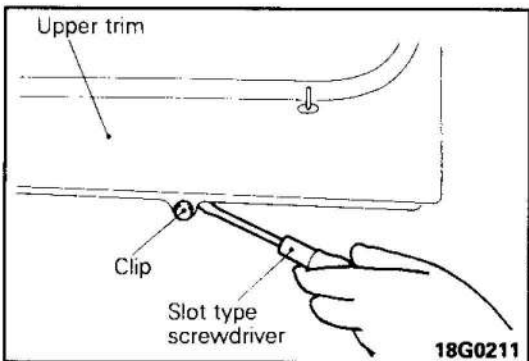
Insert special tool between door trim and clip. Twist clip to remove.

**3. REMOVAL OF DOOR TRIM (Type A)**

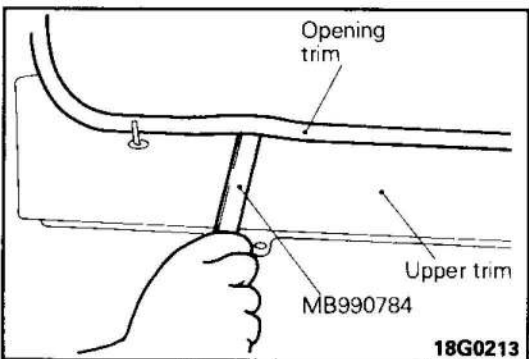
Insert special tool between door panel and bracket. Twist trim clip to remove.

**6. REMOVAL OF TRIM CLIP**

If trim clip remains on door when removing door trim, remove with illustrated tool.

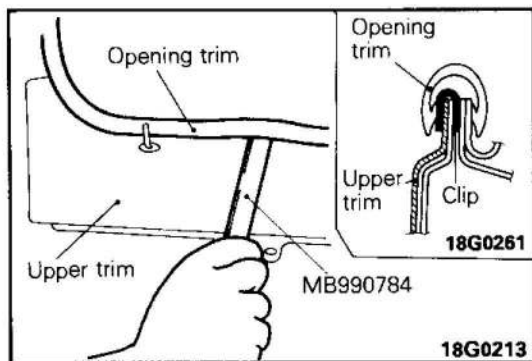
**8. REMOVAL OF CLIP**

Insert slot type screwdriver between door panel and upper trim. Twist clip to remove.

**9. REMOVAL OF CLIP/10. UPPER TRIM**

- (1) With special tool, raise opening trim. Remove lower opening trim from door flange.
- (2) Remove clip.
- (3) Remove upper trim.

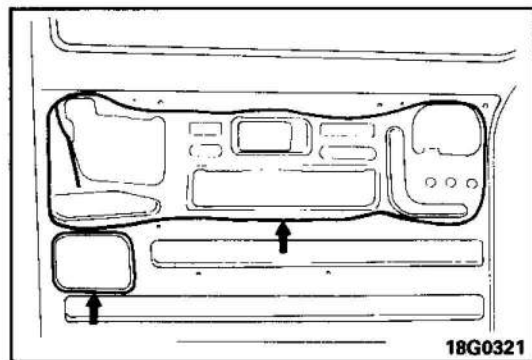




**SERVICE POINTS OF INSTALLATION**

**10. INSTALLATION OF UPPER TRIM/9. CLIP**

- (1) Install upper trim on door panel. Lock with clip.
- (2) Use special tool to hold upper trim with opening trim.



**5. INSTALLATION OF WATERPROOF FILM/4. WATERPROOF FILM**

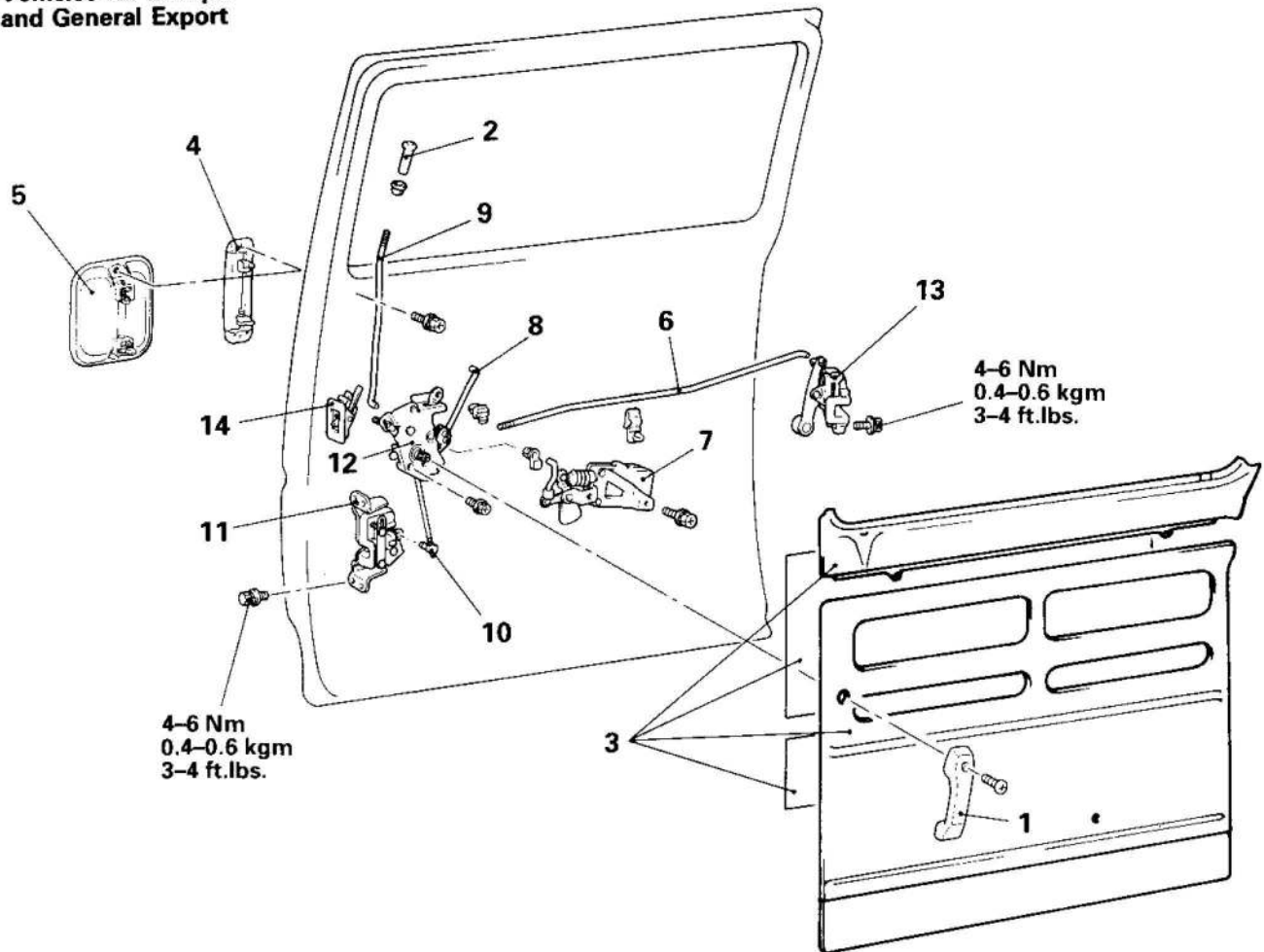
Apply specified sealant on illustrated positions and install waterproof film.

**Specified sealant: 3M ATD Part No. 8509 or equivalent**

## REAR DOOR HANDLE AND LATCH

## REMOVAL AND INSTALLATION

Vehicles for Europe  
and General Export



## Removal steps

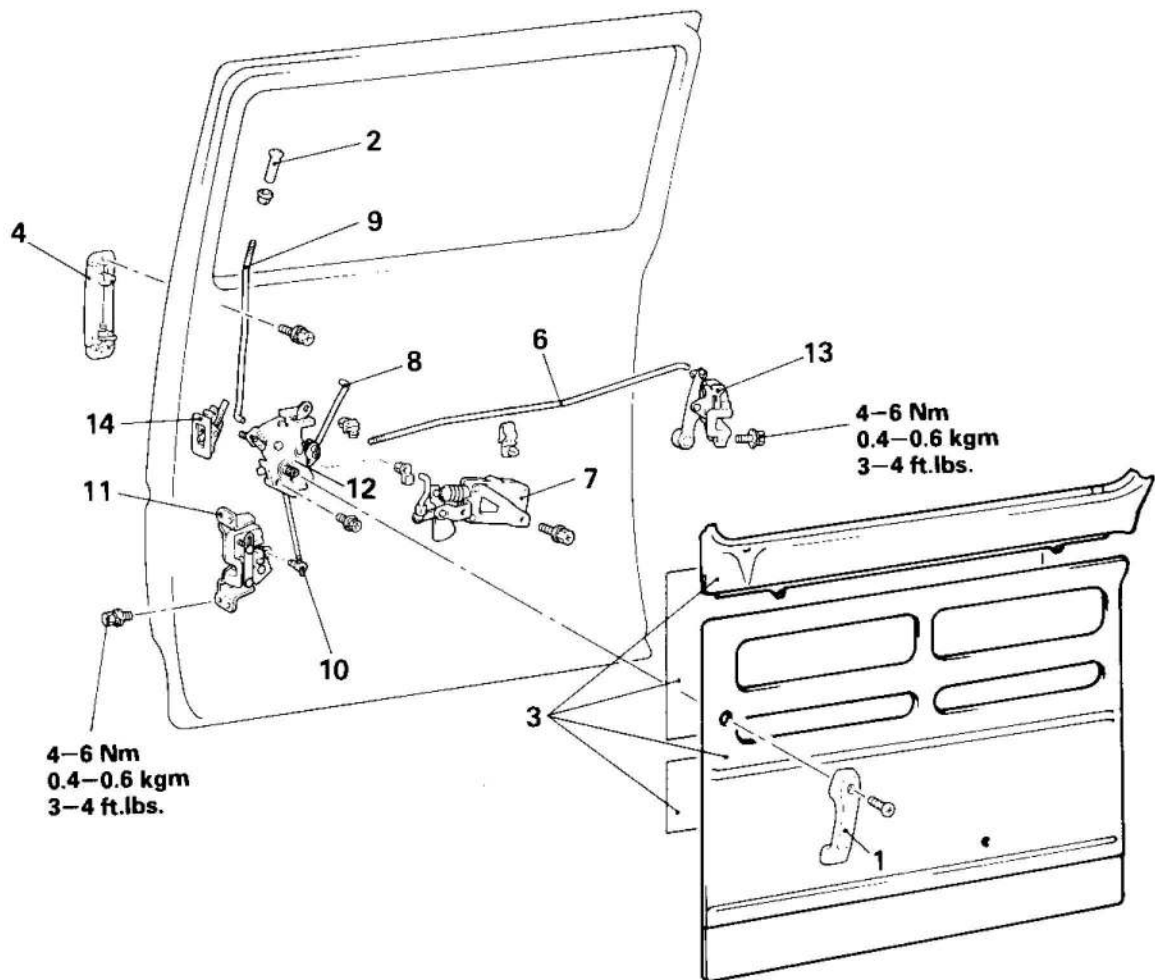
1. Inside handle
2. Inside lock knob
- ◆◆ ◆◆ 3. Door trim and waterproof film
- ◆◆ ◆◆ Adjustment of inside handle play
- ◆◆ ◆◆ Adjustment of outside handle play
- ◆◆ ◆◆ 4. Outside handle
- ◆◆ ◆◆ (vehicles for General Export)
- ◆◆ ◆◆ 5. Outside handle (vehicles for Europe)
- ◆◆ ◆◆ 6. Latch rod
- ◆◆ ◆◆ 7. Rear door lock actuator
- ◆◆ ◆◆ (vehicles with a center lock system)
- ◆◆ ◆◆ 8. Outside lock rod
- ◆◆ ◆◆ 9. Inside lock rod
- ◆◆ ◆◆ 10. Sub latch rod (Vehicles with sub latch)
- ◆◆ ◆◆ 11. Sub latch (Vehicles with sub latch)
- ◆◆ ◆◆ 12. Remote control assembly
- ◆◆ ◆◆ 13. Door latch
- ◆◆ ◆◆ 14. Child protection
- ◆◆ ◆◆ (vehicles with child protection)

## NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆ : Refer to "Service Points of Removal".
- (3) ◆◆◆ : Refer to "Service Points of Installation".

18G0373

Vehicles for Australia



18G0373

**Removal steps**

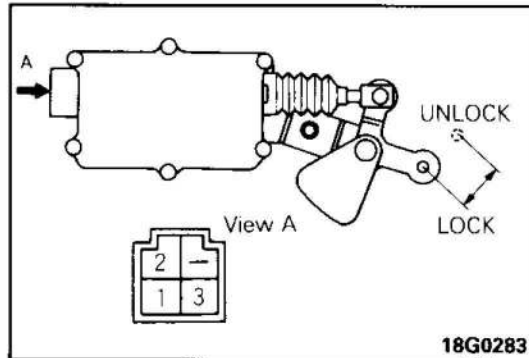
1. Inside handle
2. Inside lock knob
- ◆◆◆◆ 3. Door trim and waterproof film
  - ◆◆ Adjustment of inside handle play
  - ◆◆ Adjustment of outside handle play
- ◆◆◆ 4. Outside handle
- ◆◆◆ 6. Latch rod
- ◆◆◆ 7. Rear door lock actuator  
(vehicles with a center lock system)
8. Outside lock rod
9. Inside lock rod
10. Sub latch rod (Vehicles with sub latch)
- ◆◆◆◆ 11. Sub latch (Vehicles with sub latch)
- ◆◆◆◆ 12. Remote control assembly
- ◆◆◆◆ 13. Door latch
- ◆◆◆◆ 14. Child protection  
(vehicles with child protection)

**NOTE**

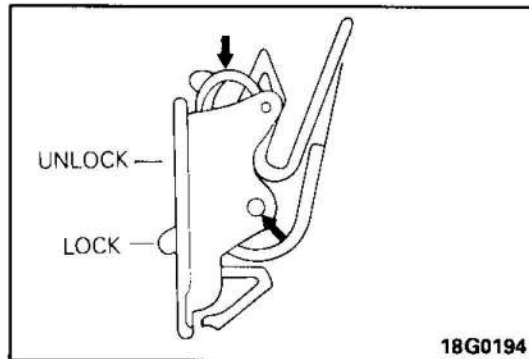
- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆◆ : Refer to "Service Points of Removal".
- (3) ◆◆◆◆ : Refer to "Service Points of Installation".

**SERVICE POINTS OF REMOVAL****3. REMOVAL OF DOOR TRIM AND WATERPROOF FILM**

Refer to P.42-47.

**INSPECTION****REAR DOOR LOCK ACTUATOR**

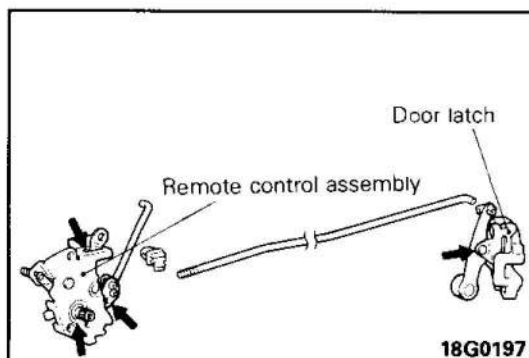
Place the rod in the LOCK position, apply the battery power to the terminal (1) and check to see that when the terminal (2) is grounded the rod moves to the UNLOCK position. Then place the rod in the LOCK position, apply the battery power to the terminal (2), and check to see that when the terminal (1) is grounded, the rod moves to the UNLOCK position.

**SERVICE POINTS OF INSTALLATION****14. INSTALLATION OF CHILD-PROTECTION**

- (1) Apply the specified grease onto the rotating and sliding parts.

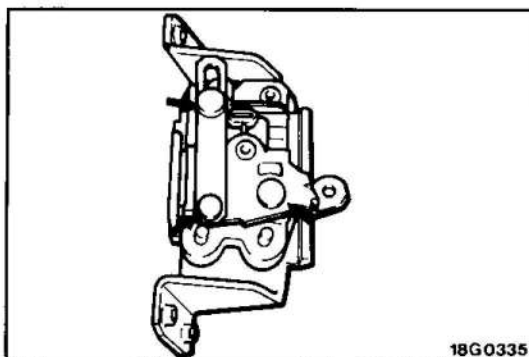
**Specified grease: Multipurpose grease  
SAE J310, NLGI No.2**

- (2) Install locked child-protection.

**13. APPLICATION OF GREASE TO DOOR LATCH/12. REMOTE CONTROL ASSEMBLY**

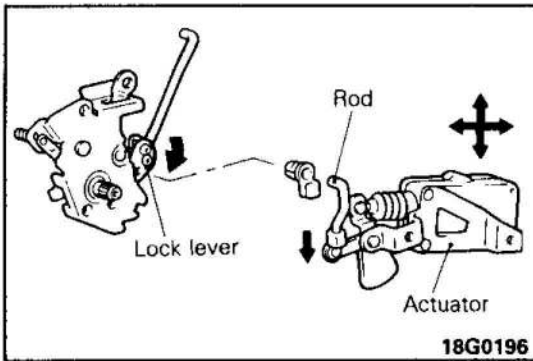
Apply the specified grease onto the rotating and sliding parts.

**Specified grease: Multipurpose grease  
SAE J310, NLGI No.2**

**11. APPLICATION OF GREASE TO SUB LATCH**

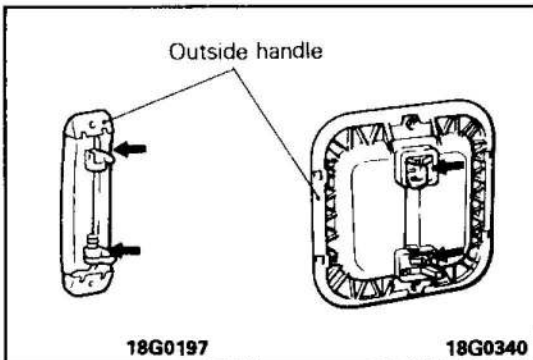
Apply the specified grease onto the rotating and sliding parts.

**Specified grease: Multipurpose grease  
SAE J310, NLGI No.2**



**7. INSTALLATION OF REAR DOOR LOCK ACTUATOR**

- (1) Set remote control lock lever and actuator rod in LOCK position.
- (2) Adjust actuator so that rod can be inserted into clip. Install actuator.
- (3) Assembly lock lever and rod.



**5. APPLICATION OF GREASE TO OUTSIDE HANDLE/4. APPLICATION OF GREASE TO OUTSIDE HANDLE**

Apply the specified grease onto the sliding part.

**Specified grease: Multipurpose grease  
SAE J310, NLGI No.2**

• **ADJUSTMENT OF OUTSIDE HANDLE**

Refer to P.42-12.

• **ADJUSTMENT OF INSIDE HANDLE**

Refer to P.42-12.

**3. INSTALLATION OF DOOR TRIM AND WATERPROOF FILM**

Refer to P.42-47.

## TAILGATE

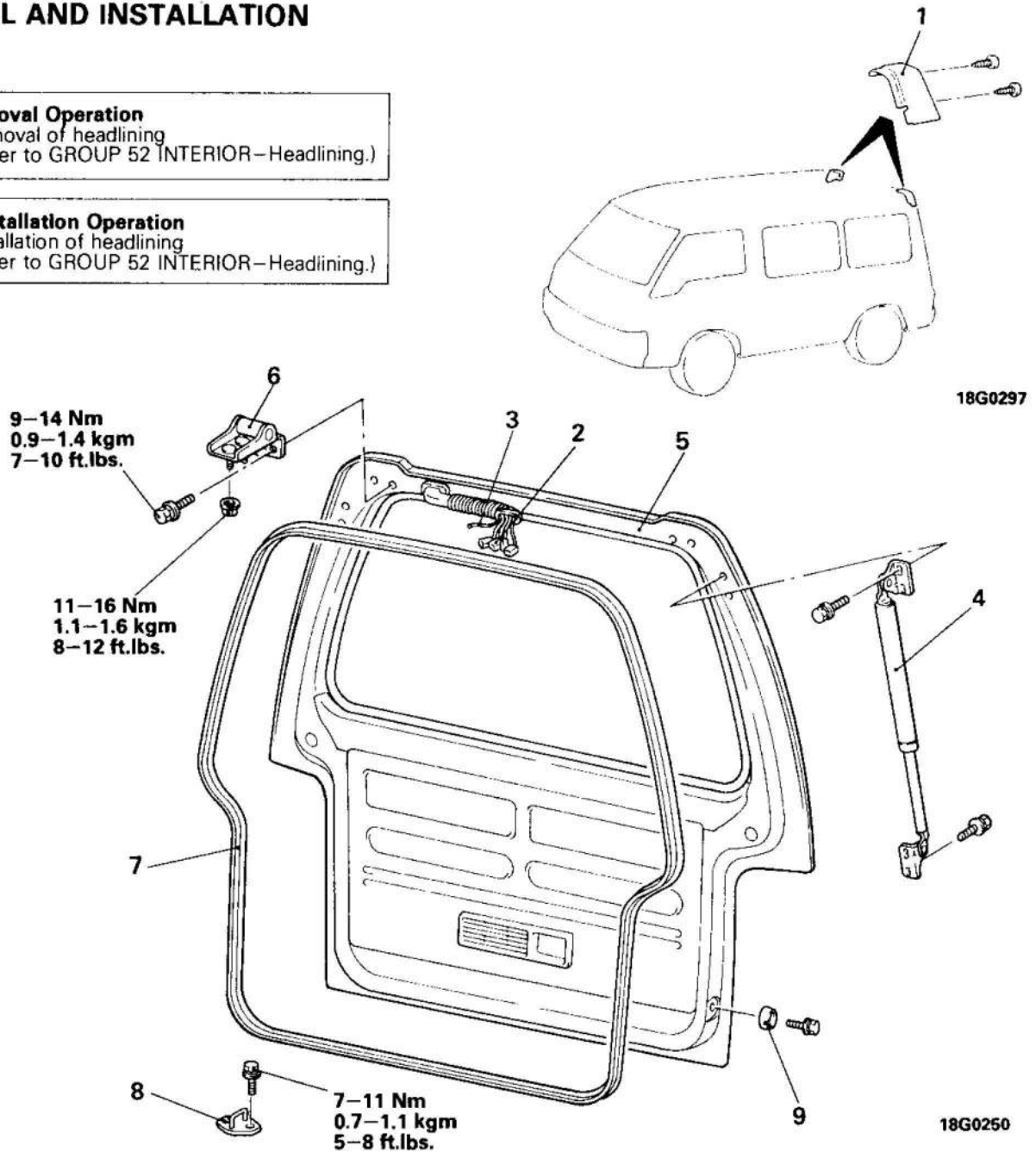
## REMOVAL AND INSTALLATION

**Pre-removal Operation**

- Removal of headlining  
(Refer to GROUP 52 INTERIOR-Headlining.)

**Post-installation Operation**

- Installation of headlining  
(Refer to GROUP 52 INTERIOR-Headlining.)

**Tailgate assembly removal steps**

1. D pillar cover
2. Tailgate harness connector
3. Rear window washer tube
- ◆◆ Adjustment of tailgate assembly after installation
4. Tailgate gas spring
5. Tailgate assembly
- ◆◆ 6. Tailgate hinge

**Opening weatherstrip removal**

7. Opening weatherstrip

**Striker removal**

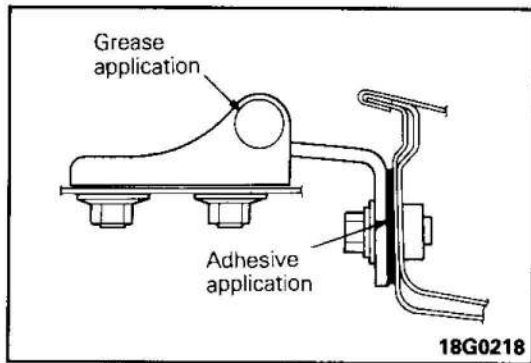
8. Striker

**Damper male removal**

9. Damper male

**NOTE**

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆: Refer to "Service Points of Installation".



### SERVICE POINTS OF INSTALLATION

#### 6. APPLICATION OF GREASE AND ADHESIVE TO TAILGATE HINGES

- (1) Apply multipurpose grease to tailgate hinge contact surface.
- (2) Apply specified adhesive to tailgate hinge for installation.

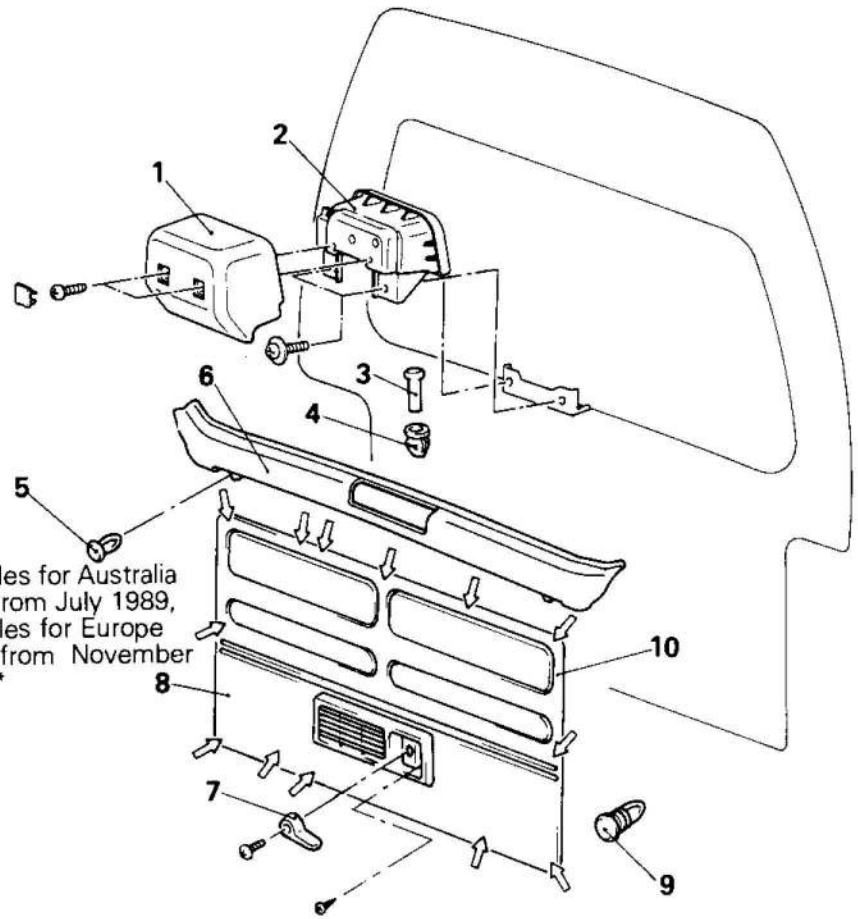
**Specified adhesive: 3M Part No. EC-1368 or 3M ATD Part No. 8080, or equivalent**

#### ● ADJUSTMENT OF TAILGATE ASSEMBLY AFTER INSTALLATION

Refer to P. 42-12.

# TAILGATE TRIM

## REMOVAL AND INSTALLATION



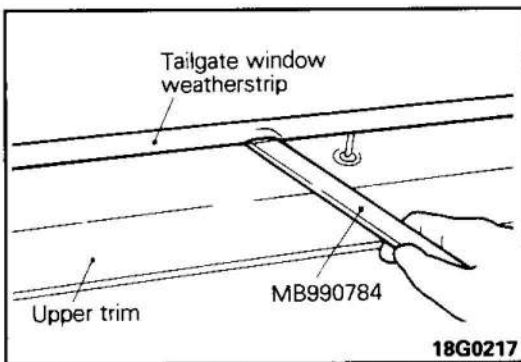
### Removal steps

- 1. High mounted stop lamp cover
  - 2. High mounted stop lamp
  - 3. Inside lock knob
  - 4. Inside lock knob bushing
  - 5. Clip
  - 6. Upper trim
  - 7. Opening lever
  - 8. Tailgate trim
  - 9. Waterproof film
  - 10. Trim clip
- Vehicles for Australia built from July 1989,  
Vehicles for Europe built from November 1989\*

**NOTE**  
 (1) Reverse the removal procedures to reinstall.  
 (2) ◆◆: Refer to "Service Points of Removal".  
 (3) ◆◆: Refer to "Service Points of Installation".  
 (4) ⇄: indicates clipping position.

(5) \*: P03WHSNPAL6

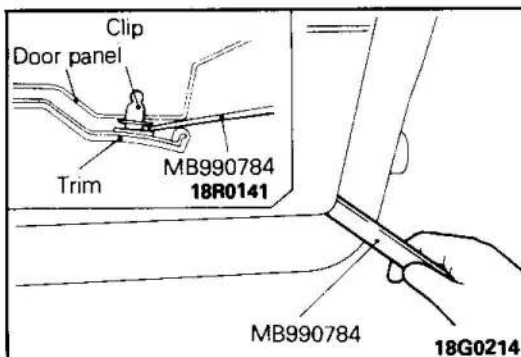
18G0534



### SERVICE POINTS OF REMOVAL

#### 6. REMOVAL OF UPPER TRIM

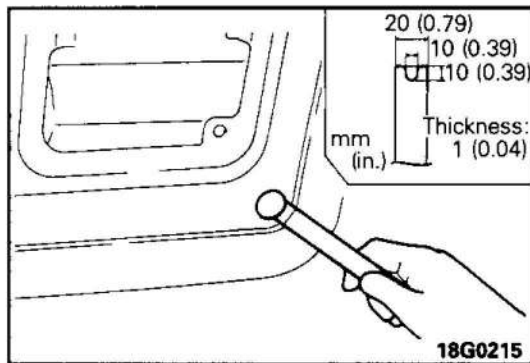
Lift tailgate window weatherstrip with special tool and remove upper trim.



#### 8. REMOVAL OF TAILGATE TRIM

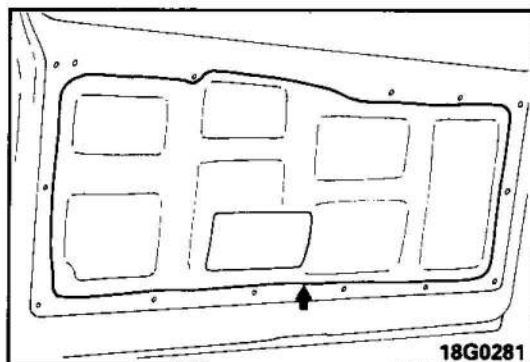
Insert special tool between door panel and trim. Twist trim clip and remove door trim.





**10. REMOVAL OF TRIM CLIP**

When trim clip remains on tailgate side after removing to tailgate trim, remove with a tool as illustrated.

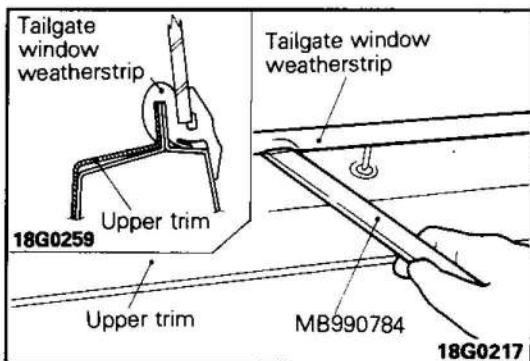


**SERVICE POINTS OF INSTALLATION**

**9. INSTALLATION OF WATERPROOF FILM**

Apply specified sealant as illustrated. Install waterproof film.

**Specified sealant: 3M ATD Part No. 8625 or equivalent**



**6. INSTALLATION OF UPPER TRIM**

Use special tool and hold upper trim with tailgate window weatherstrip.

# TAILGATE HANDLE AND LATCH

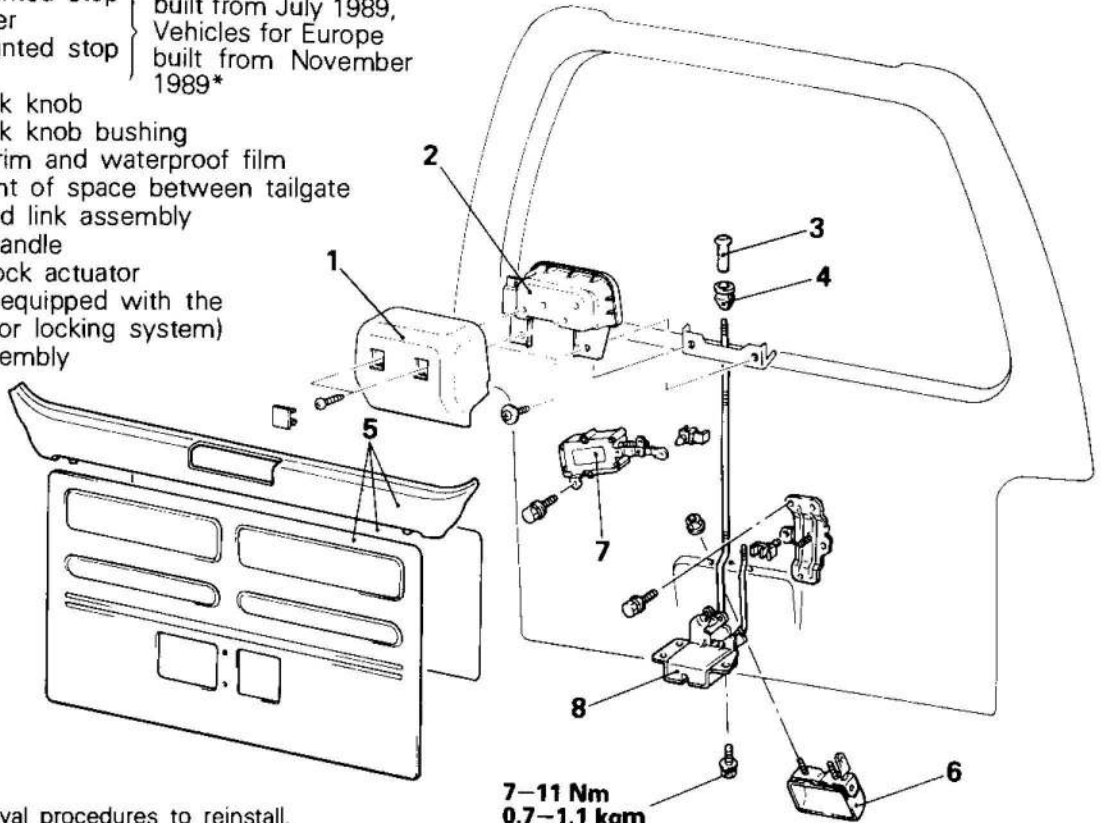
## REMOVAL AND INSTALLATION

### Removal steps

1. High mounted stop lamp cover
2. High mounted stop lamp
3. Inside lock knob
4. Inside lock knob bushing
5. Tailgate trim and waterproof film
6. Tailgate handle
7. Tailgate lock actuator (Vehicles equipped with the center door locking system)
8. Latch assembly

Vehicles for Australia built from July 1989, Vehicles for Europe built from November 1989\*

- ◆◆◆◆ 5. Adjustment of space between tailgate handle and link assembly
- ◆◆ 6. Tailgate handle
- ◆◆ 7. Tailgate lock actuator
- ◆◆ 8. Latch assembly



### NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆: Refer to "Service Points of Removal".
- (3) ◆◆: Refer to "Service Points of Installation".
- (4) \*: P03WHSNPAL6

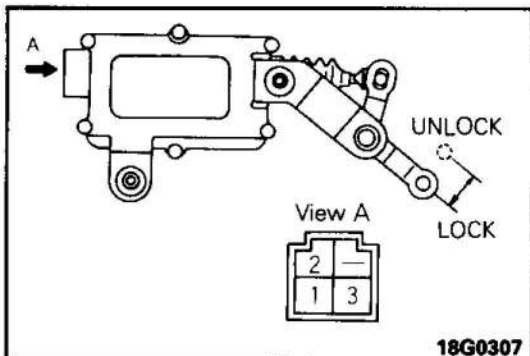
7-11 Nm  
0.7-1.1 kgm  
5-8 ft.lbs.

18G0533

## SERVICE POINTS OF REMOVAL

### 5. REMOVAL OF TAILGATE TRIM AND WATERPROOF FILM

Refer to P. 42-56.



## INSPECTION

### TAILGATE LOCK ACTUATOR

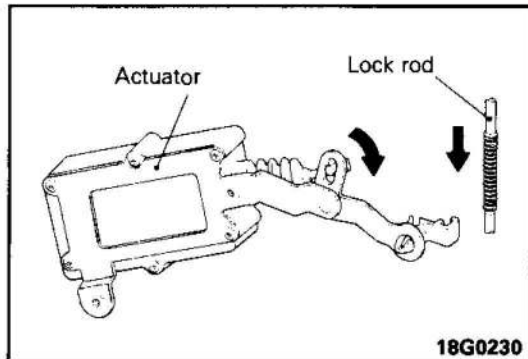
Set actuator level at UNLOCK position. Connect battery to terminal "1". Check that lever operates to LOCK position when terminal "2" is earthed. Also, set lever at LOCK position and connect battery to terminal "2". Check that lever operates to UNLOCK position when terminal "1" is earthed.

**SERVICE POINTS OF INSTALLATION**

**8. APPLICATION OF GREASE TO LATCH ASSEMBLY**

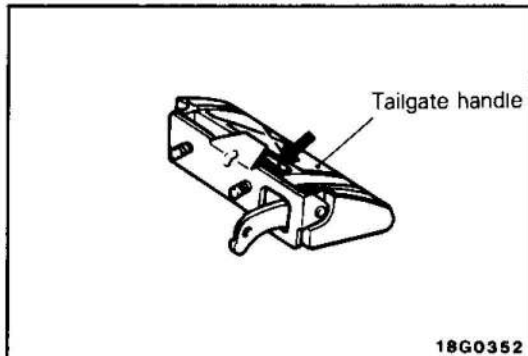
Apply specified grease to contact area.

**Specified grease: Multipurpose grease SAE J310, NLGI No. 2**



**7. INSTALLATION OF TAILGATE LOCK ACTUATOR**

- (1) Install actuator on tailgate.
- (2) Set latch assembly lock rod and actuator at LOCK position.
- (3) Install lock rod and actuator.



**6. APPLICATION OF GREASE TO TAILGATE HANDLE**

Apply specified grease to contact surface.

**Specified grease: Multipurpose grease SAE J310, NLGI No. 2**

**• ADJUSTMENT OF SPACE BETWEEN TAILGATE HANDLE AND LINK ASSEMBLY**

Refer to P. 42-13.

**5. INSTALLATION OF TAILGATE TRIM AND WATERPROOF FILM**

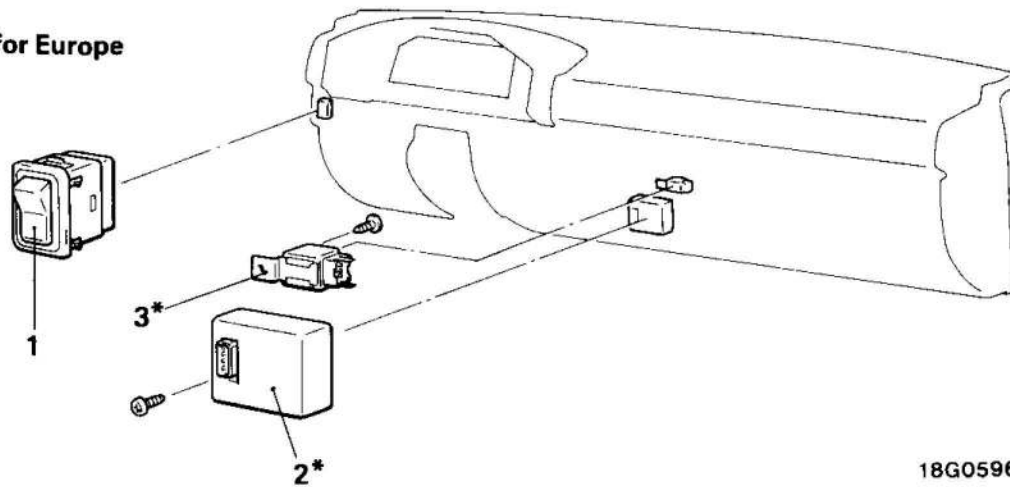
Refer to P. 42-56.

**CENTER DOOR LOCKING SYSTEM**

E42XAAA

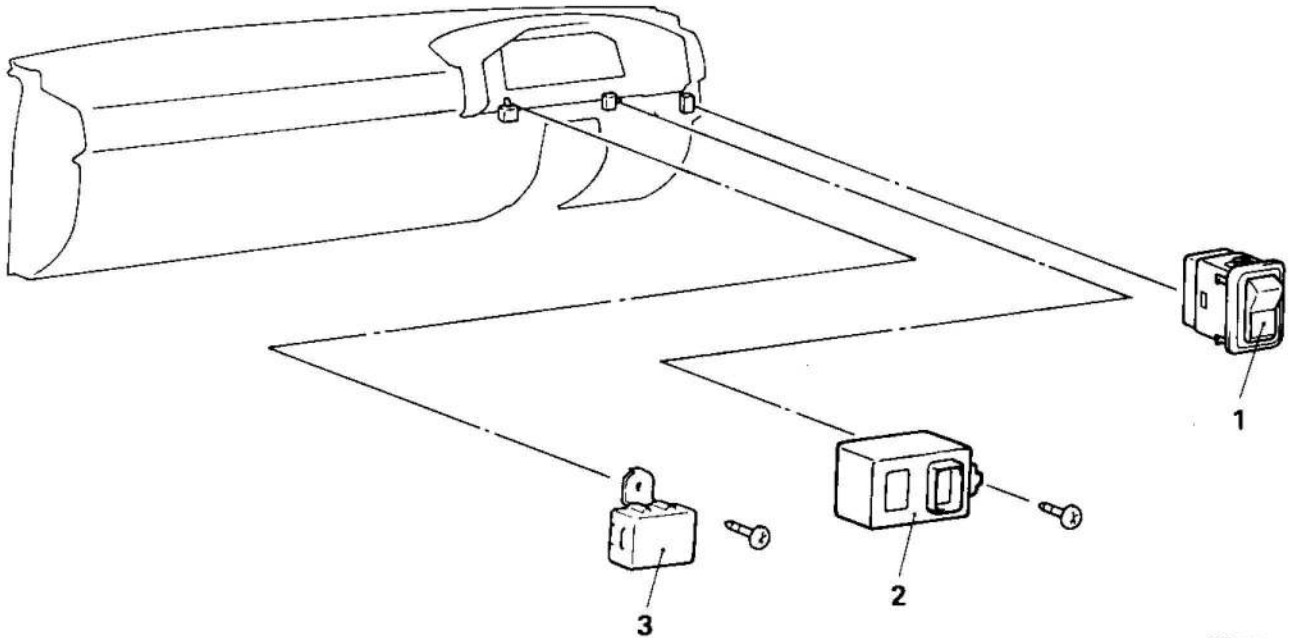
**REMOVAL AND INSTALLATION**

Vehicles for Europe



18G0596

Vehicles for General Export and Australia

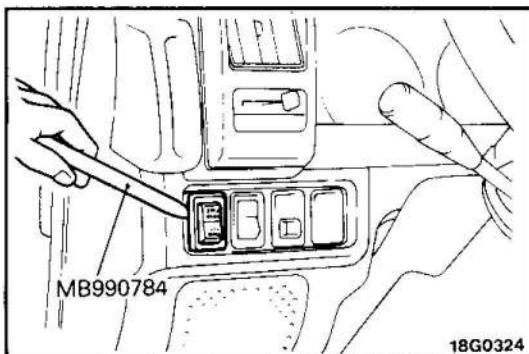


18G0303

- ◆◆ 1. Center lock switch
- ◆◆◆ 2. Door lock control unit
- 3. Door lock power relay

**NOTE**

- (1) ◆◆ : Refer to "Service Points of Removal".
- (2) ◆◆◆ : Refer to "Service Points of Installation".
- (3) \* : All doors and Tailgate control type.



MB990784

18G0324

**SERVICE POINTS OF REMOVAL**

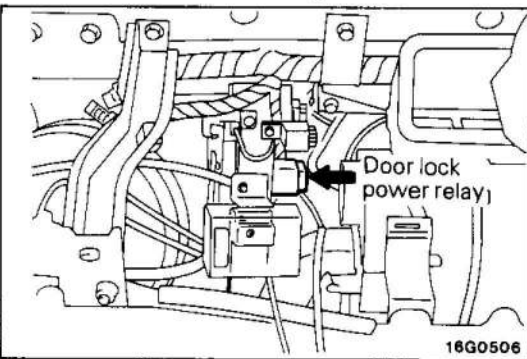
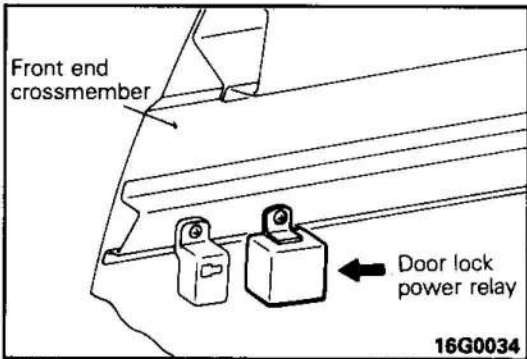
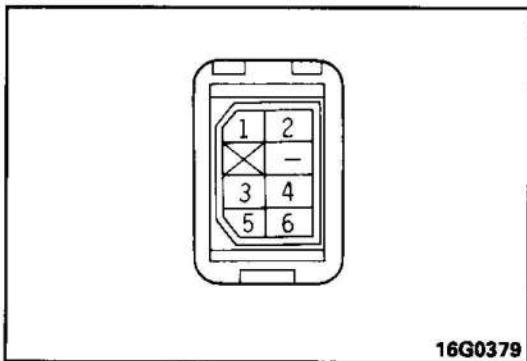
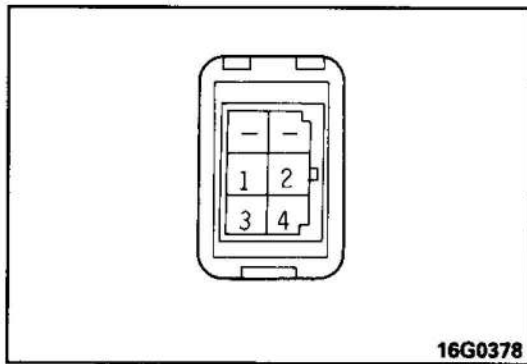
**1. REMOVAL OF CENTER LOCK SWITCH**

Remove switch from instrument panel with special tool. Press connector retainer and remove switch.

**2. REMOVAL OF DOOR LOCK CONTROL UNIT**

<Vehicles for General Export and Australia>

- (1) Remove the brake booster and pedal assembly.  
(Refer to GROUP 35 SERVICE BRAKE—Brake Booster.)
- (2) Remove the door lock control unit.



**INSPECTION**

**CENTER LOCK SWITCH**

Operate switch and check circuit between terminals.

[Vehicles built up to June 1988]

Terminal	3	1	4	2
Switch position				
LOCK	○—○	○—○	○—○	○—○
OFF				
UNLOCK	○—○	○—○	○—○	○—○

[Vehicles built from July 1988]

Terminal	3	5	6	4	1	*	2
Switch position							
LOCK	○—○	○—○	○—○	○—○			
OFF					○—○	⊗	○—○
UNLOCK	○—○	○—○	○—○	○—○			

**NOTE**

- (1) ○—○ indicates there is continuity between the terminals.
- (2) \* indicate bulbs.

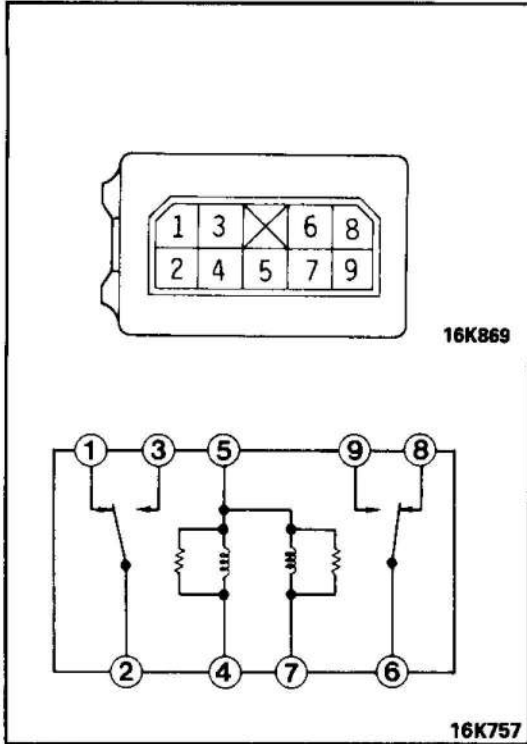
**DOOR LOCK POWER RELAY**

<Vehicles for General Export and Australia>

- (1) Remove the brake booster and pedal assembly.  
(Refer to GROUP 35—Brake Booster.)
- (2) Remove the door lock power relay.
- (3) Check circuit between terminals under the following conditions.

<Vehicles for Europe · All doors and tailgate control type>

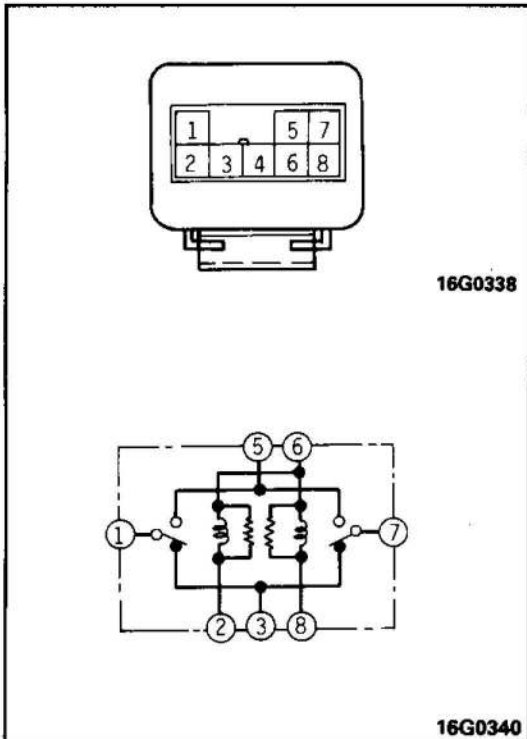
- (1) Remove the relay bracket.
- (2) Remove the relay from the relay bracket.
- (3) Check circuit between terminals under the following conditions.



[Vehicles built up to June 1987]

Battery voltage \ Terminal	1	2	3	4	5	6	7	8	9
Power is not supplied	○—○			○—○	○—○	○	○—○		
Power is supplied			○—○			○—○			○—○

NOTE  
○—○ indicates there is continuity between the terminals.



[Vehicles built from July 1987]

Battery voltage \ Terminal	1	2	3	4	5	6	7	8
Power is not supplied	○—○		○—○				○—○	○—○
Power is supplied	○—○				○—○		○—○	

NOTE  
○—○ indicates there is continuity between the terminals.

**SERVICE POINTS OF INSTALLATION**

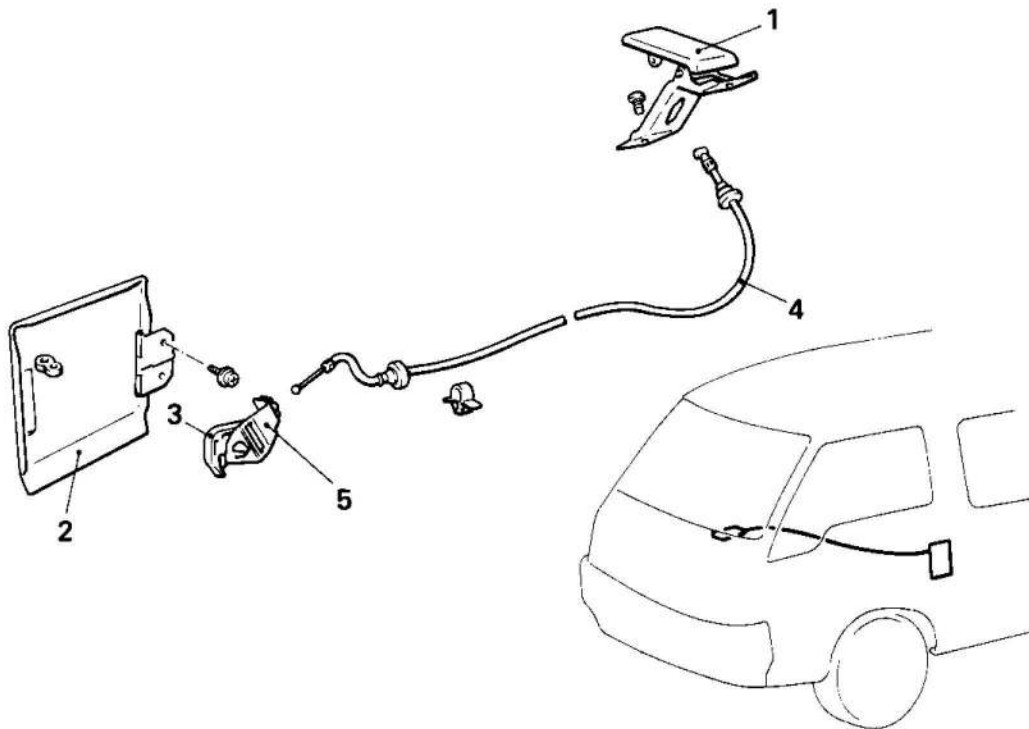
**2. INSTALLATION OF DOOR LOCK CONTROL UNIT**

<Vehicles for General Export and Australia>  
Install the brake booster and pedal assembly.  
(Refer to GROUP 35—Brake Booster.)

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NOTES

## FUEL FILLER DOOR REMOVAL AND INSTALLATION



18G0267

### Removal steps

1. Release handle
2. Fuel filler door assembly
3. Latch
4. Release cable
- ◆◆ 5. Base plate

### NOTE

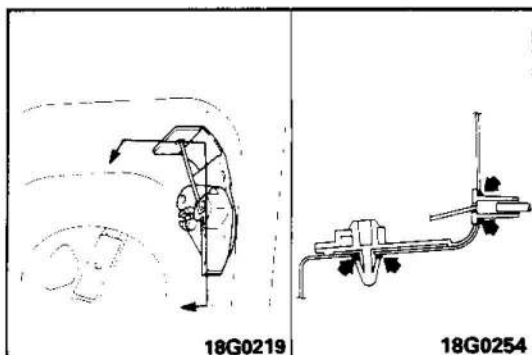
- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆ : Refer to "Service Points of Installation".

## SERVICE POINTS OF INSTALLATION

### 5. APPLICATION OF ADHESIVE TO BASE PLATE

Apply the specified sealant to the places as shown in the installation.

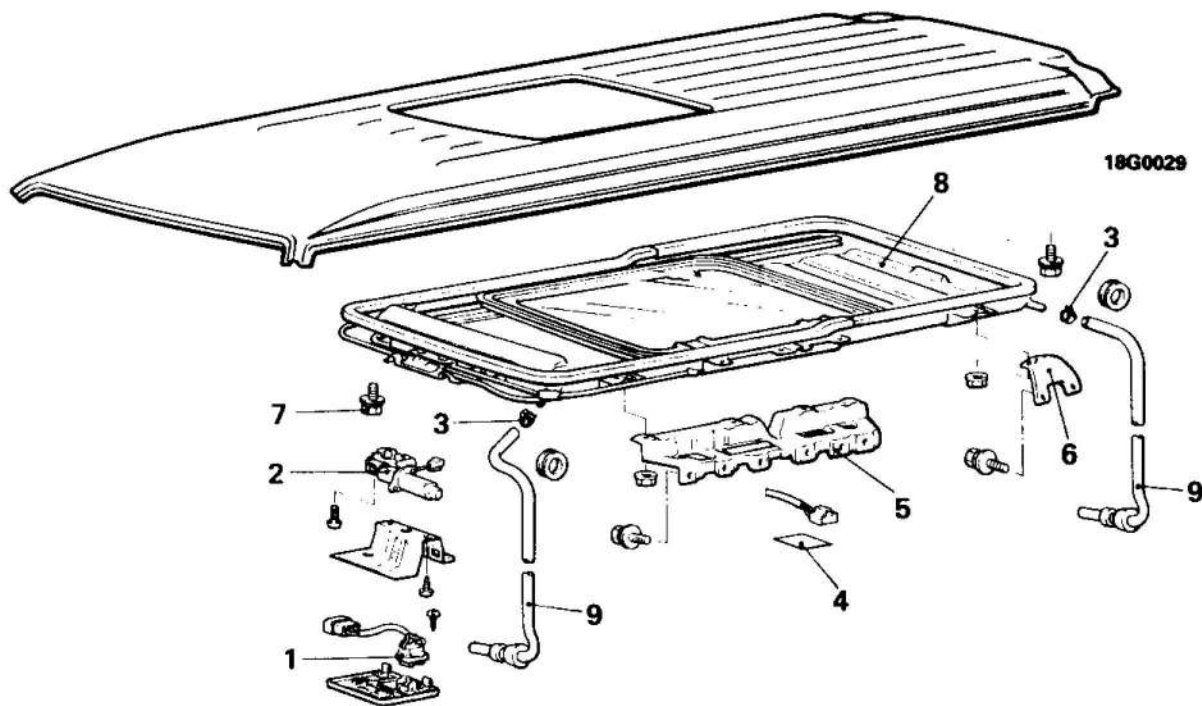
**Specified sealant: 3M ATD Part No. 8531, 8646  
or equivalent**





**SUNROOF (ELECTRONIC SLIDING TYPE)**

**REMOVAL AND INSTALLATION**



18G0029

18G0179

**Removal steps**

- 1. Sunroof switch
- ◆◆◆◆ 2. Motor assembly
- 3. Clip
- 4. Interior lamp harness securing tape
- 5. Front set bracket
- 6. Rear set bracket
- 7. Bolt
- 8. Sunroof assembly
- 9. Drain pipe

**NOTE**

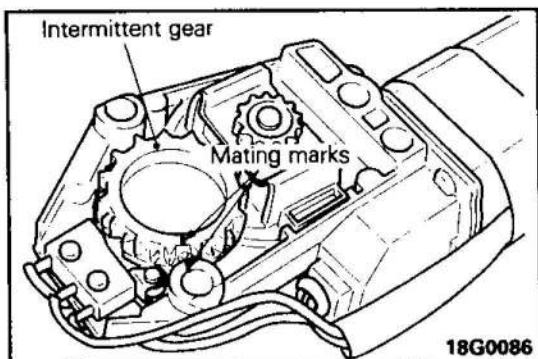
- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆◆◆: Refer to "Service Points of Removal".
- (3) ◆◆◆◆: Refer to "Service Points of Installation".

**Pre-removal Operation**

- Removal of headlining (Refer to GROUP 52 INTERIOR-Headlining)

**Post-installation Operation**

- Inspection of water leaking (Refer to P. 42-13.)
- Installation of headlining (Refer to GROUP 52 INTERIOR-Headlining.)



18G0086

**SERVICE POINTS OF REMOVAL**

**2. REMOVAL OF MOTOR ASSEMBLY**

- (1) Close sunroof fully. Remove motor.

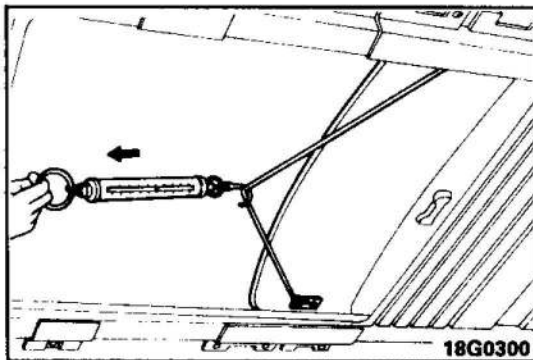
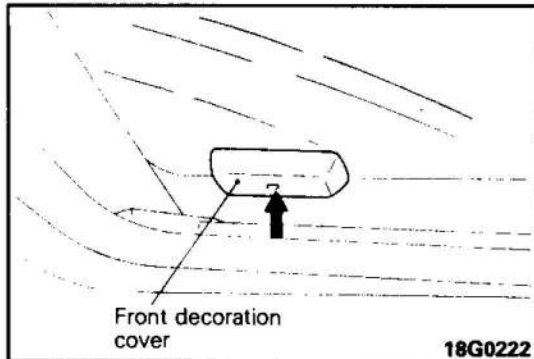
**NOTE**

When sunroof does not move, place match marks on roof lid and guide rail.

- (2) Place match marks on motor intermittent gear and bracket.

**INSPECTION**

- Check for worn motor gear.
- Check for foreign object in guide rail.
- Check deflector operation.

**ROOF LID DRIVE RESISTANCE**

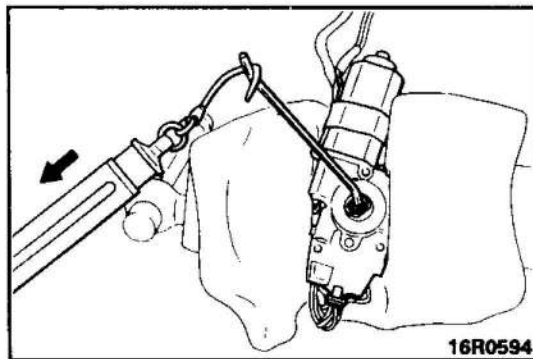
Check roof lid drive resistance as follows.

1. Remove front decoration covers.
2. Remove front guide front nut. Fasten string.

3. Measure roof lid drive resistance with spring scale.

**Standard value: 200N (20 kg, 44 lbs.) or less**

4. When the resistance exceeds the standard value, check the following.
  - (1) Guide rail installation
  - (2) Defective or worn guide bracket.
  - (3) Seized drive cable
  - (4) Defective drive tube

**CLUTCH SLIP FORCE**

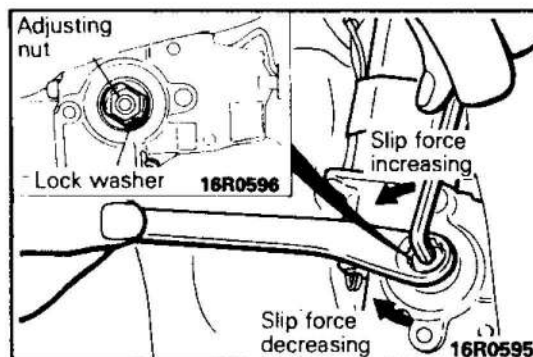
Check clutch slip force as follows.

1. Attach installed hex wrench into hex socket on motor drive shaft. Measure the force with spring scale when clutch slips.

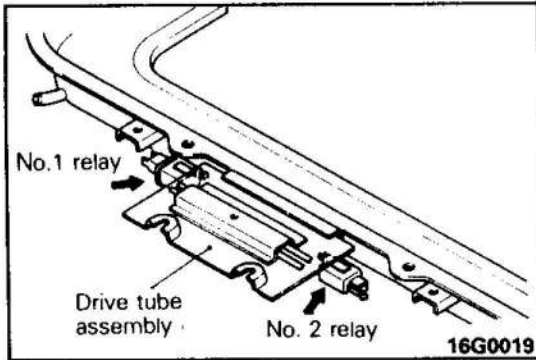
**Standard value: 30–40 N (3.0–4.0 kg, 7–9 lbs.)**

**Caution**

1. Hold spring scale 90° against wrench.
2. Use the installed tool only to prevent clutch slip force variation.



2. When the slip force is not within the standard value, adjust with motor adjusting nut.
3. After adjusting, lock adjusting nut with lock washer.



**SUNROOF RELAY**

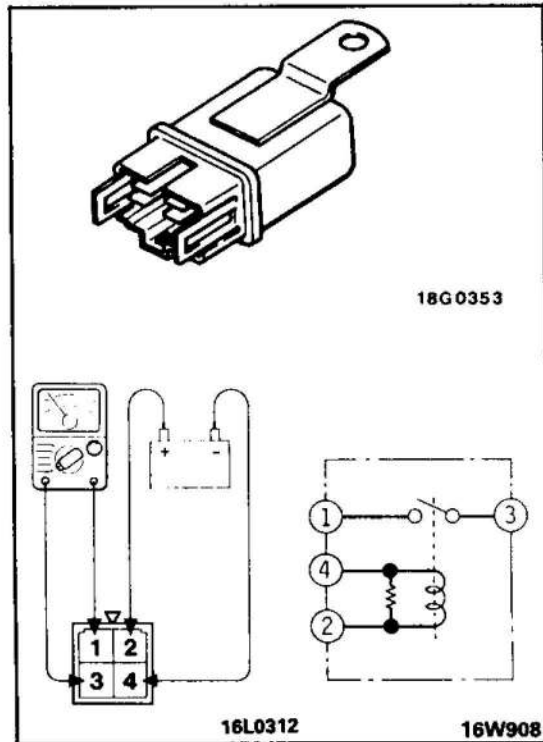
- (1) Remove the front headlining.  
(Refer to GROUP 52 INTERIOR–Headlining.)
- (2) Remove the No. 1 and No. 2 relay from the drive tube assembly.

**No. 1 relay**

Connect battery to terminal 2 and check continuity between terminals with terminal 4 ground.

Battery voltage	Terminal	1	2	3	4
Power is not supplied			○		○
Power is supplied		○		○	

○—○ indicates there is continuity between the terminals.



**No. 2 relay**

- (1) Connect battery to terminal 2 and check continuity between terminals with terminal 4 ground.

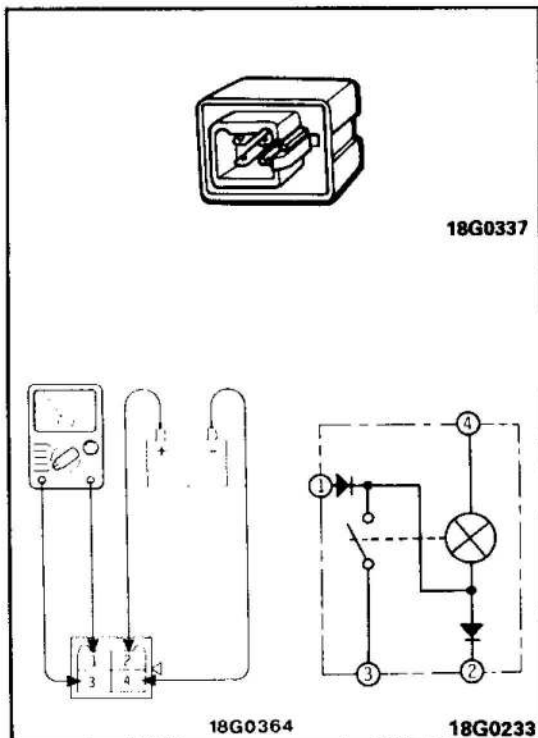
Battery voltage	Terminal	1	2	3	4
Power is not supplied		○	○		○
Power is supplied		○		○	

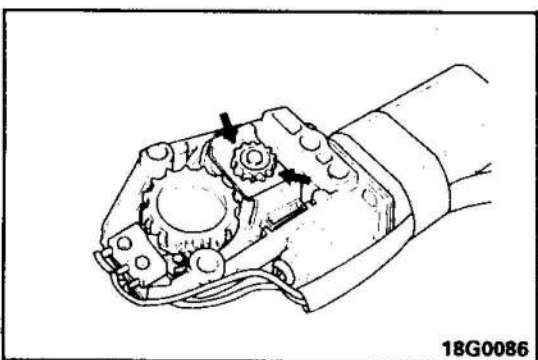
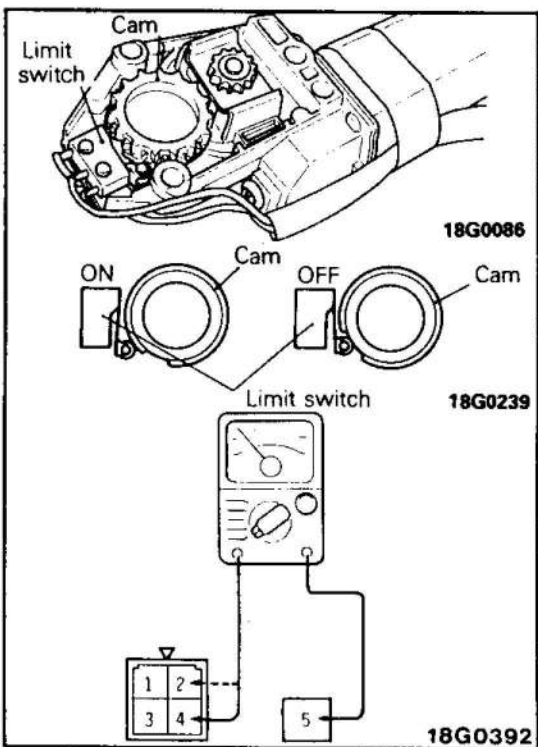
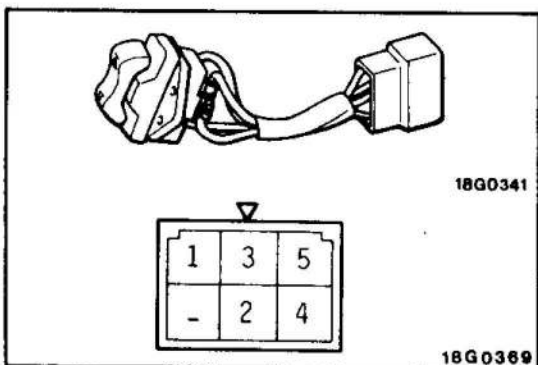
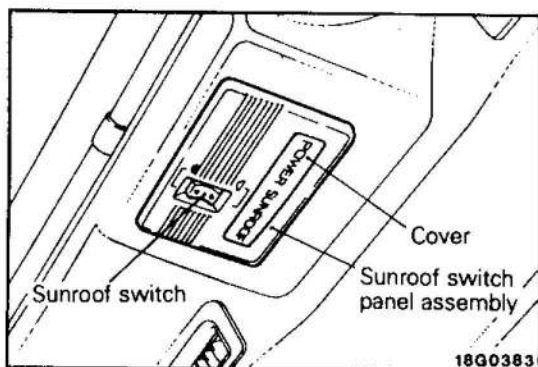
**NOTE**

○—○ indicates there is continuity between the terminals.

- (2) Check diode circuit as follows.

Continuity	Terminal	1	2
Yes		+	-
Non		-	+



**SUNROOF SWITCH**

- (1) Remove the cover and sunroof switch panel assembly. (Refer to GROUP 52 INTERIOR—Headlining.)
- (2) Remove the sunroof switch.
- (3) Operate sunroof switch and check circuit between switch terminals

Terminal	1	2	3	4	5
Switch position					
Open	○	○			
OFF			○	○	
Close	○			○	

**NOTE**

○—○ indicates there is continuity between the terminals.

**LIMIT SWITCH**

- (1) Remove the sunroof motor.
- (2) Turn sunroof motor and check circuit between limit switch terminals.

Terminal	2	4	5
Switch position			
ON		○	○
OFF	○		○

**NOTE**

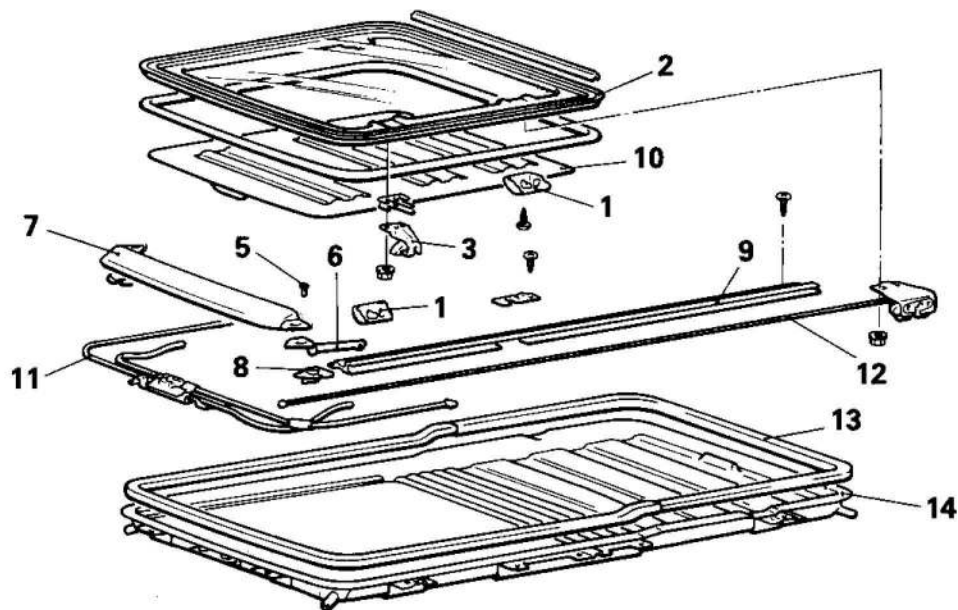
○—○ indicates there is continuity between the terminals.

**SERVICE POINTS OF INSTALLATION****2. INSTALLATION OF MOTOR ASSEMBLY**

- (1) Apply the specified grease onto the pinion gear of motor.  
**Specified grease: Multipurpose grease SAE J310, NLGI No.2.**
- (2) When replacing motor, install with roof lid open [about 200 mm (7.87 in.)] and limit switch OFF.

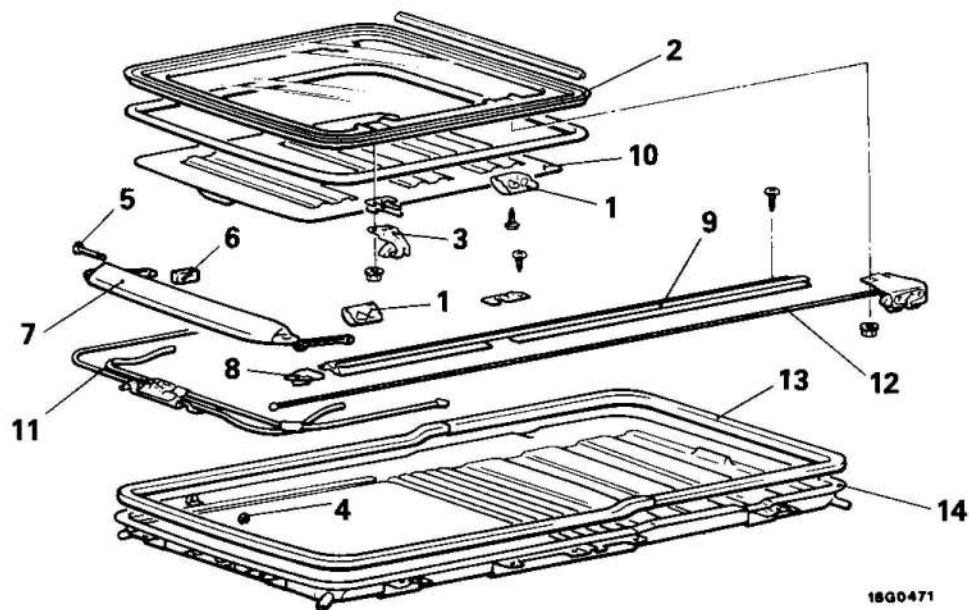
DISASSEMBLY AND REASSEMBLY

Vehicles built up to October 1987



Vehicles built from November 1987

18G0178



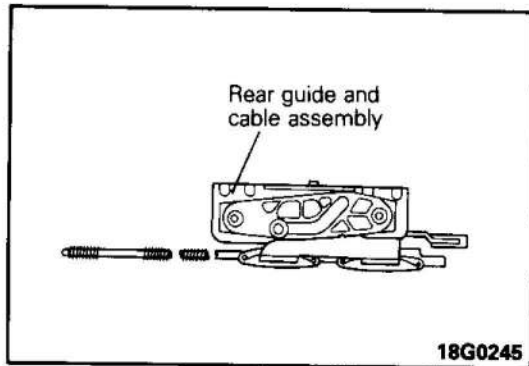
18G0471

Disassembly steps

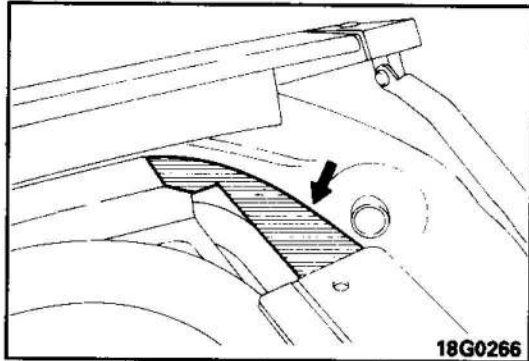
- 1. Decoration cover
- 2. Roof lid
- ◆◆ 3. Front guide bracket
- 4. E-ring (-\*)
- 5. Pin (Clip\*)
- ◆◆ 6. Connector (Hinge\*)
- ◆◆ 7. Deflector assembly
- ◆◆ 8. Rail end cover
- 9. Guide rail assembly
- 10. Sun shade
- 11. Drive tube
- ◆◆ 12. Rear guide and cable assembly
- 13. Sealing tape
- 14. Housing assembly

NOTE

- (1) Reverse the disassembly procedures to reassemble.
- (2) ◆◆: Refer to "Service Points of Reassembly".
- (3) The \* symbol that designates parts in the disassembly steps indicates manufacture until October, 1987.

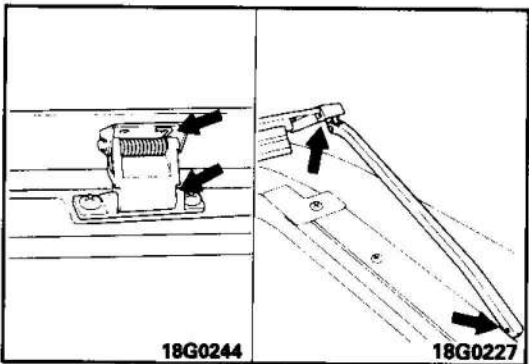
**SERVICE POINTS OF REASSEMBLY****12. APPLICATION OF GREASE TO REAR GUIDE AND CABLE ASSEMBLY**

Apply the multipurpose grease onto the sliding part of guide, link and cable.

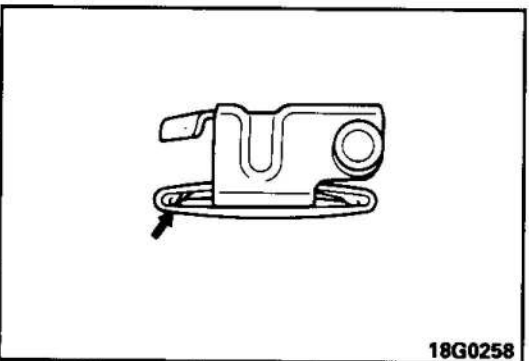
**8. APPLICATION OF SEALANT TO RAIL END COVER INSTALL AREA**

Apply specified sealant to rail end cover install area.

**Specified sealant: 3M ATD Part No. 8531, 8646 or equivalent**

**7. APPLICATION OF GREASE TO DEFLECTOR ASSEMBLY/ 6. HINGE\***

Apply multipurpose grease deflector assembly linkage and hinge drive area.

**3. APPLICATION OF GREASE TO FRONT GUIDE BRACKET**

Apply the multipurpose grease onto the sliding part of guide and link.

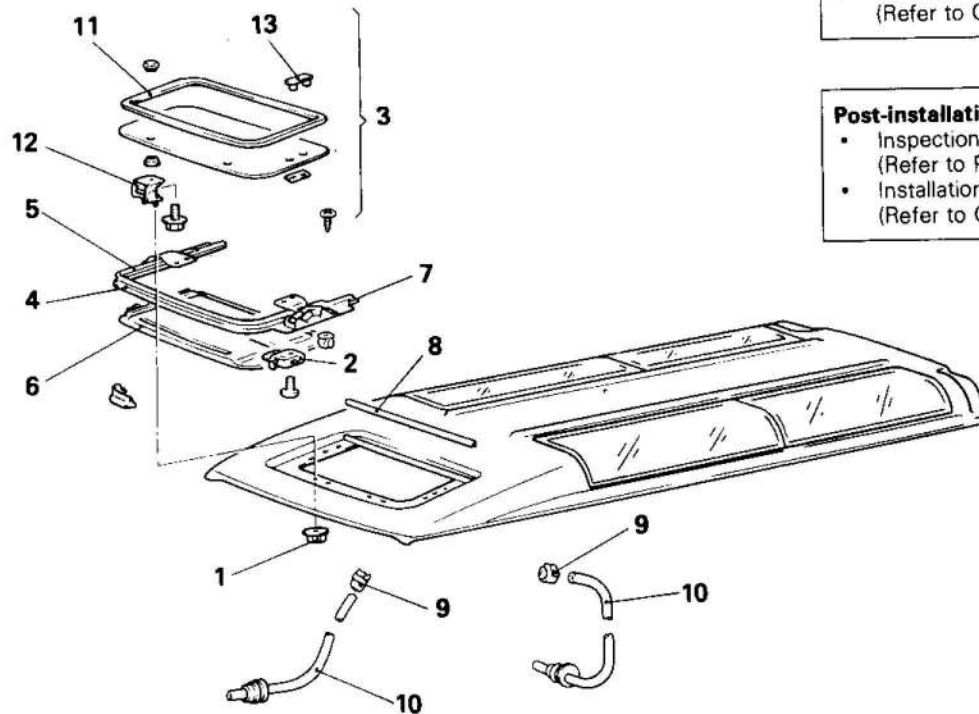
**SUNROOF (TILT UP TYPE)**  
**REMOVAL AND INSTALLATION**

**Pre-removal Operation**

- Removal of headlining  
(Refer to GROUP 52 Headlining)

**Post-installation Operation**

- Inspection of water leaking  
(Refer to P. 42-13.)
- Installation of headlining  
(Refer to GROUP 52 Headlining)



18G0176

**Removal steps**

1. Nut
2. Lock handle
3. Glass assembly
4. Case moulding
- ◆◆ 5. Guide rail (R.H.)
6. Sunshade
- ◆◆ 7. Guide rail (L.H.)
8. Edge trim
9. Clip
10. Drain pipe
11. Weather strip
12. Hinge
- ◆◆ 13. Holder

**NOTE**

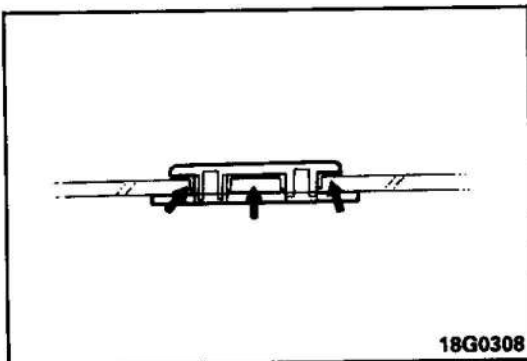
- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆: Refer to "Service Points of Installation".

**SERVICE POINTS OF INSTALLATION**

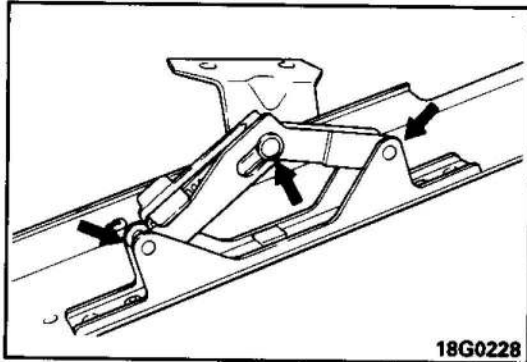
**13. APPLY ADHESIVE TO THE HOLDER**

Apply specified adhesive to the holder and insert the glass.

**Specified adhesive: 3M ATD Part No. 8155, 8121 or equivalent**



18G0308



18G0228

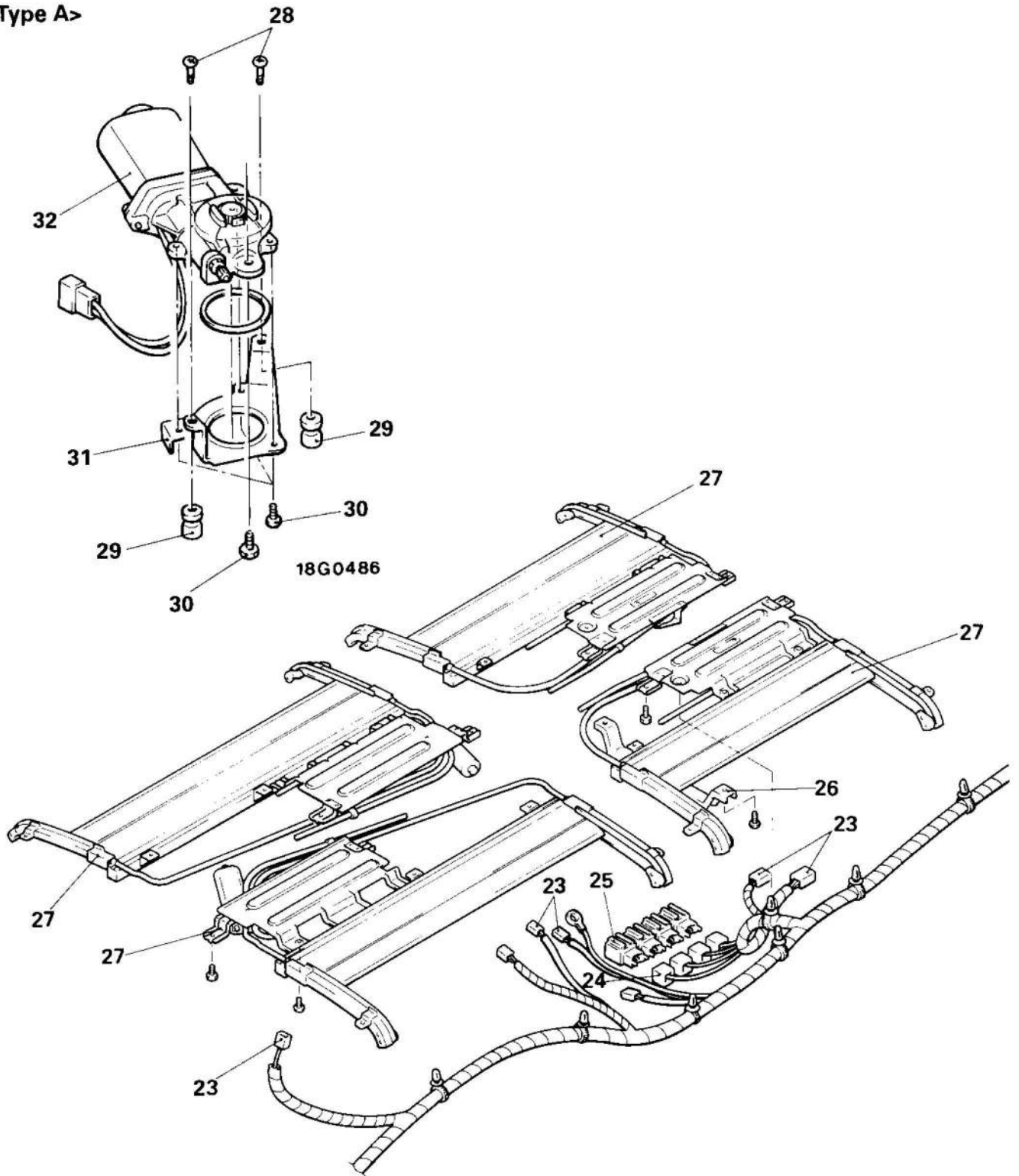
**7. APPLY GREASE TO GUIDE RAIL (L.H.)/5. GUIDE RAIL (R.H.)**

Apply specified grease to the guide rail link.

**Specified grease: Chassis grease SAE J310, NLGI 0**



<Type A>



**Removal steps**

- 23. Motor harness connector
- 24. Relay harness connector
- 25. Relay
- 26. Headlining support plate
- ◆◆ 27. Roof blind assembly
- 28. Motor bracket mounting screw
- 29. Rubber nut
- 30. Motor assembly mounting screw

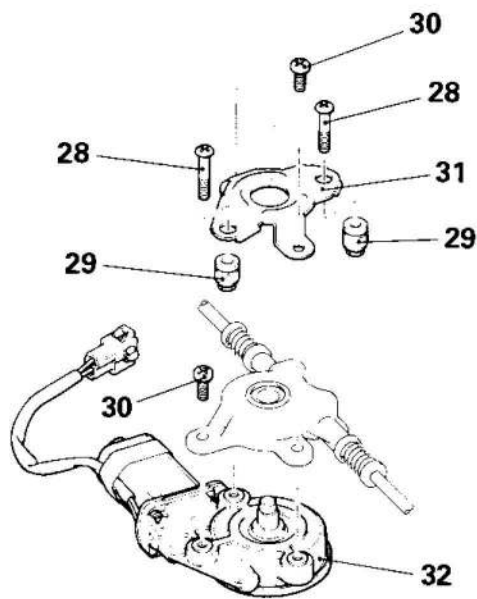
- 31. Motor bracket
- 32. Motor assembly

**NOTE**

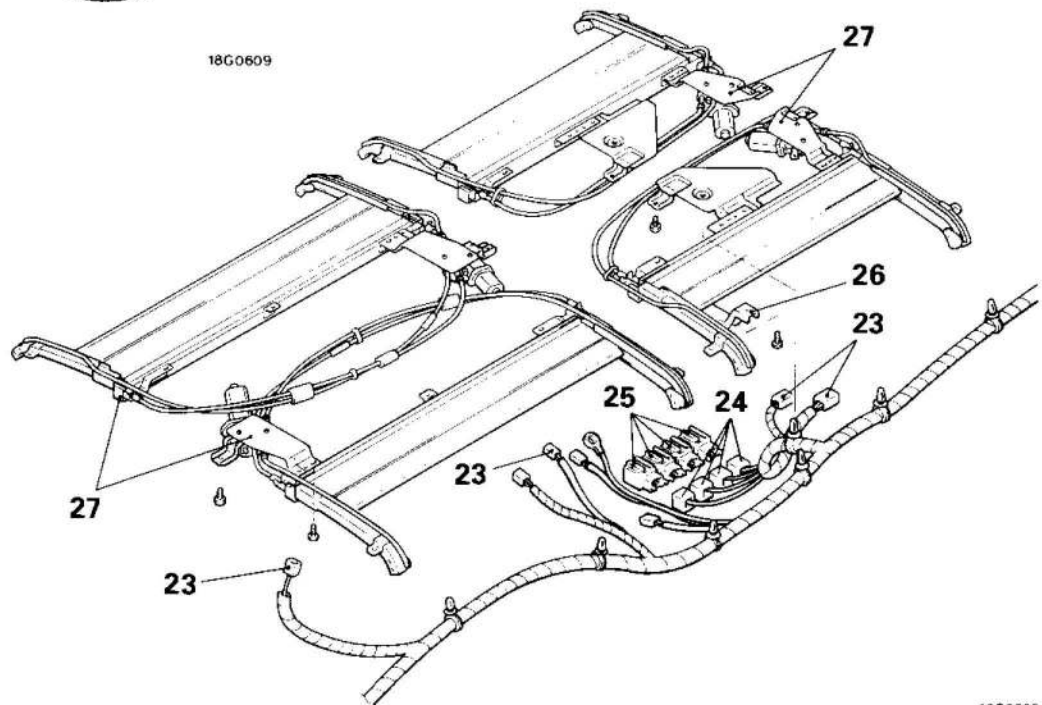
- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆ : Refer to "Service Points of Removal".

18G0487

&lt;Type B&gt;



18G0609



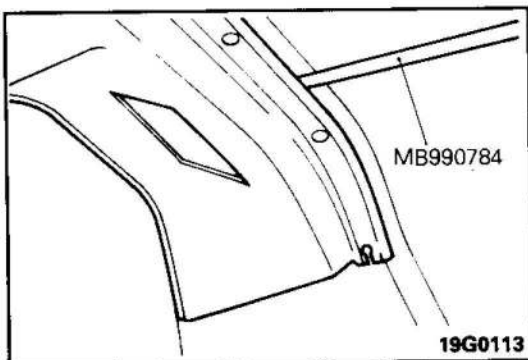
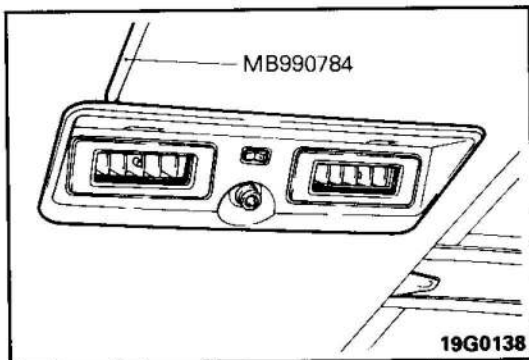
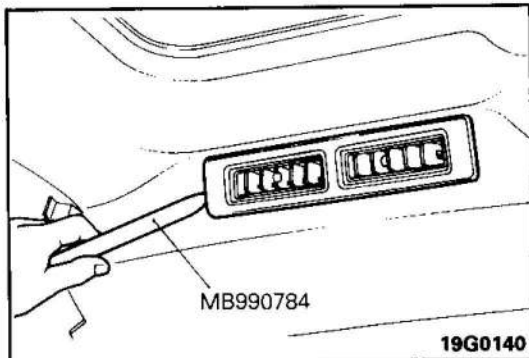
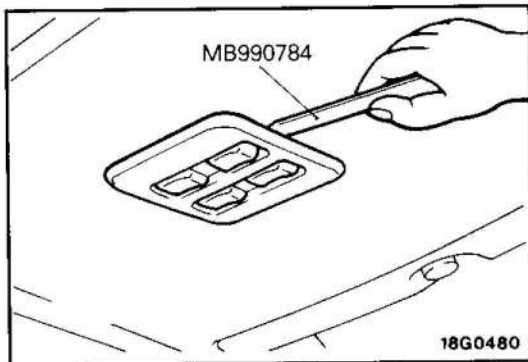
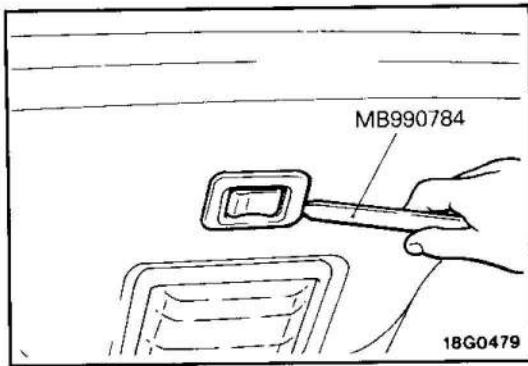
18G0605

**Removal steps**

- 23. Motor harness connector
- 24. Relay harness connector
- 25. Relay
- 26. Headlining support plate
- ◆◆ 27. Roof blind assembly
- 28. Motor bracket mounting screw
- 29. Rubber nut
- 30. Motor assembly mounting screw
- 31. Motor bracket
- 32. Motor assembly

**NOTE**

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆: Refer to "Service Points of Removal".



## SERVICE POINTS OF REMOVAL

### 1. REMOVAL OF ROOF BLIND SWITCH (FRONT)

Using the special tool, remove the roof blind switch (front) then remove the connector.

### 2. REMOVAL OF ROOF BLIND SWITCH (REAR)

Using the special tool, remove the roof blind switch (rear) then remove the connector.

### 3. REMOVAL OF AIR OUTLET GRILLE

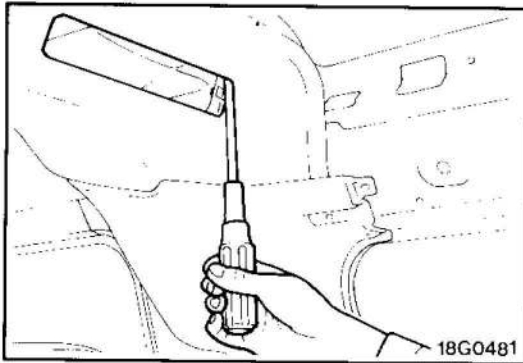
Using the special tool, remove the air outlet grille.

### 5. REMOVAL OF SPOT LAMP ASSEMBLY

- (1) Using a small flat tipped screwdriver etc., remove the cover and the installation screws.
- (2) Using a special tool, remove the spot lamp assembly then remove the connector.

### 19. REMOVAL OF HEADLINING (REAR)

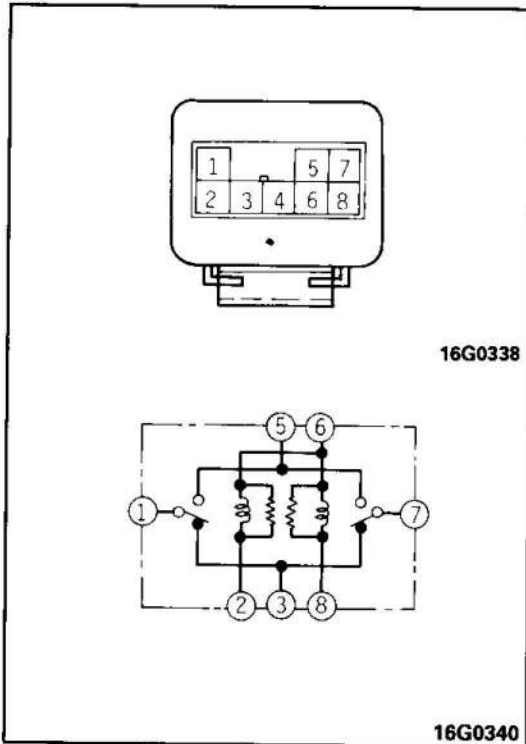
- (1) Remove the headlining (rear) installation screw.
- (2) Using the special tool, remove the headlining (rear).



18G0481

**27. REMOVAL OF ROOF BLIND ASSEMBLY (FRONT)**

Insert a screwdriver through the air outlet grille hole to remove the front side (outside) installation screws.



16G0338

16G0340

**INSPECTION**

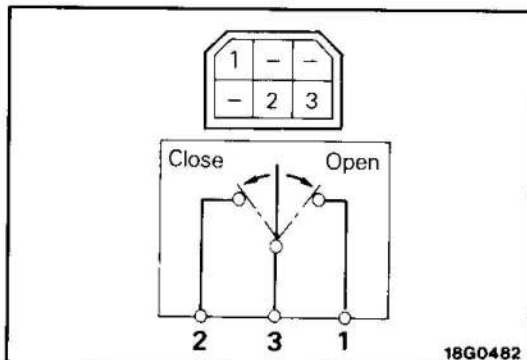
**ROOF BLIND RELAY**

Check circuit between terminals under the following conditions.

Battery voltage \ Terminal	1	2	3	4	5	6	7	8
Power is not supplied	○—○		○—○				○—○	○—○
Power is supplied	○—○				○—○			
		⊖—⊖	⊖—⊖	⊖—⊖		⊕—⊕		⊕—⊕

**NOTE**

- (1) ○—○ indicates there is continuity between the terminals.
- (2) ⊕—⊖ indicates terminals to which battery voltage is applied.



18G0482

**ROOF BLIND SWITCH (FRONT)**

Operate roof blind switch and check circuit between switch terminals.

Switch position \ Terminal	1	2	3
OPEN	○—○		○—○
OFF			
CLOSE		○—○	○—○

**NOTE**

- indicates there is continuity between the terminals.

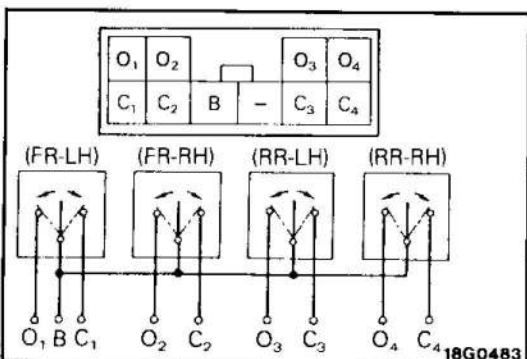
**ROOF BLIND SWITCH (REAR)**

Operate roof blind switch and check circuit between switch terminals.

Switch position \ Terminal	O <sub>1</sub> , O <sub>2</sub> , O <sub>3</sub> , O <sub>4</sub>	C <sub>1</sub> , C <sub>2</sub> , C <sub>3</sub> , C <sub>4</sub>	B
OPEN	○—○		○—○
OFF			
CLOSE		○—○	○—○

**NOTE**

- indicates there is continuity between the terminals.

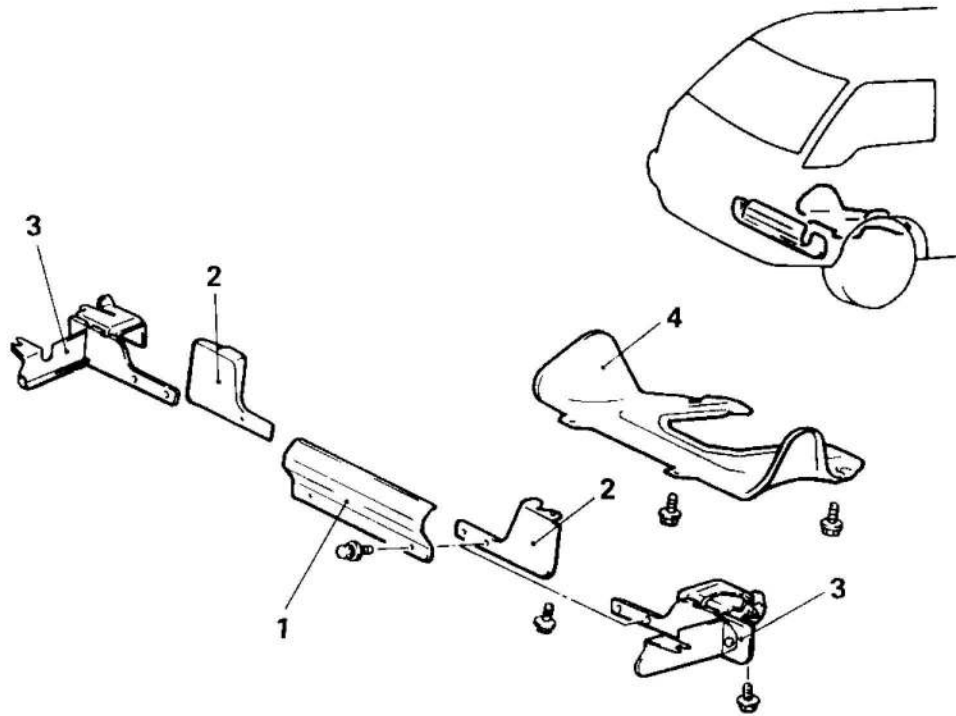


18G0483

**UNDER COVER AND PROTECTOR (2WD)**

E42UAAD

**REMOVAL AND INSTALLATION**



18G0350

**Power steering tube protector,  
snow guard plate removal steps**

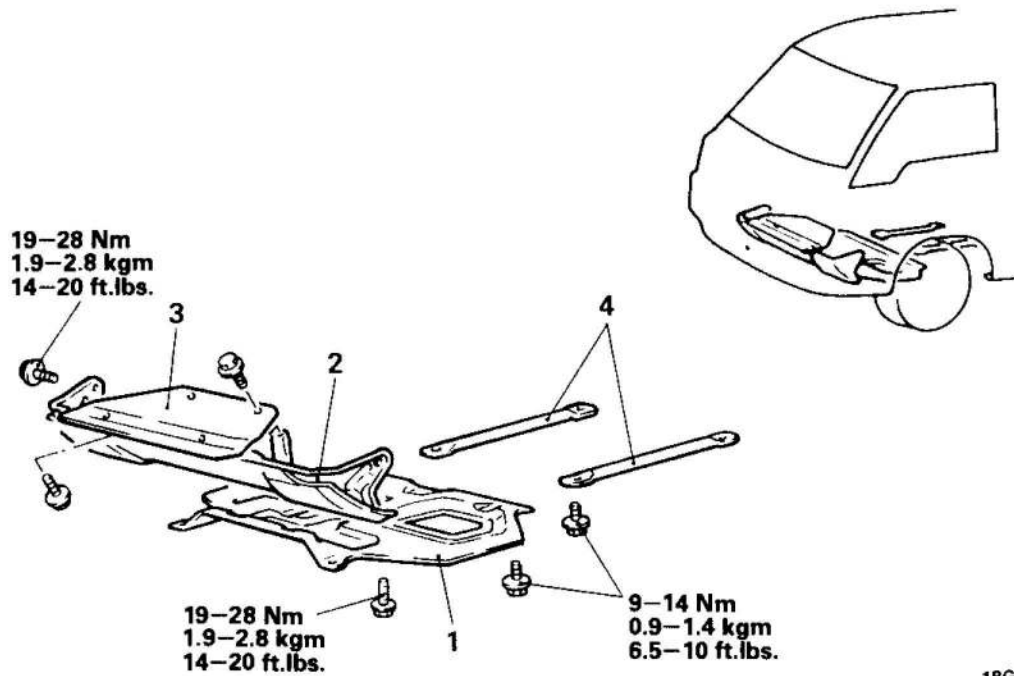
1. Power steering tube protector
2. Snow guard plate
3. Snow guard plate  
(diesel-powered vehicles)

**Under cover removal**

4. Under cover

**NOTE**

Reverse power steering tube protector and snow guard plate removal procedures to reinstall.

**UNDER COVER AND PROTECTOR (4WD)****REMOVAL AND INSTALLATION****Under cover protector removal steps**

1. Under cover
2. Under skid plate
3. Deflector plate

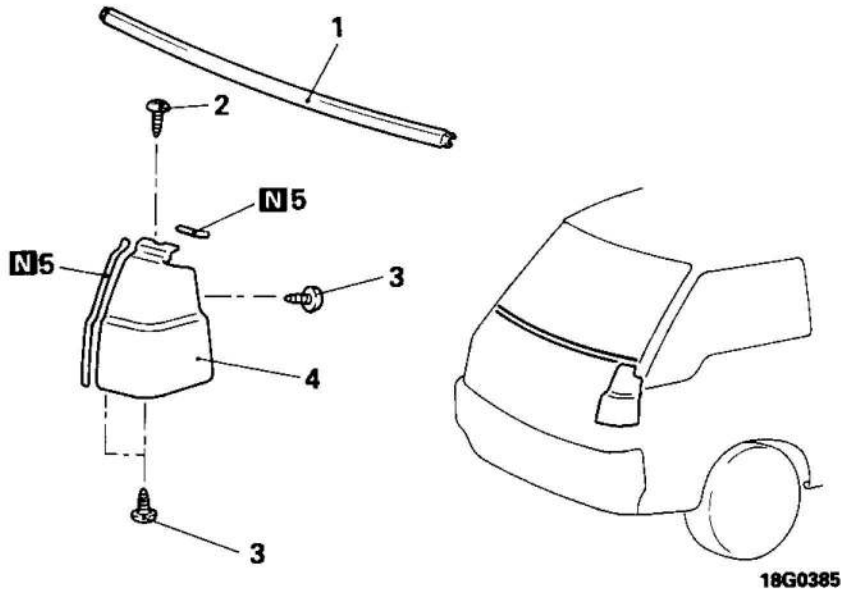
**Pipe removal**

4. Pipe

**NOTE**

Reverse under cover protector removal procedures to reinstall.

**FRONT CORNER PANEL  
REMOVAL AND INSTALLATION**



**Removal steps**

- ◄◄ 1. Lower moulding  
(vehicle with adhesive type windshield)
- ◄◄ 2. Screw
- ◄◄ 3. Screw
- ◄◄ 4. Front corner panel
- ◄◄ 5. Seal

**NOTE**

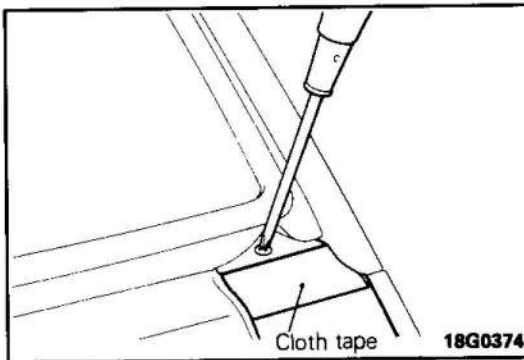
- (1) Reverse the removal procedures to reinstall.
- (2) ◄◄: Refer to "Service Points of Removal".
- (3) ◄◄: Refer to "Service Points of Installation".
- (4) **N**: Non-reusable parts

**Pre-removal Operation**

- Removal of headlamp bezel  
(Refer to GROUP 51—Headlamp Bezel.)

**Post-installation Operation**

- Installation of headlamp bezel  
(Refer to GROUP 51—Headlamp Bezel.)



**SERVICE POINTS OF REMOVAL**

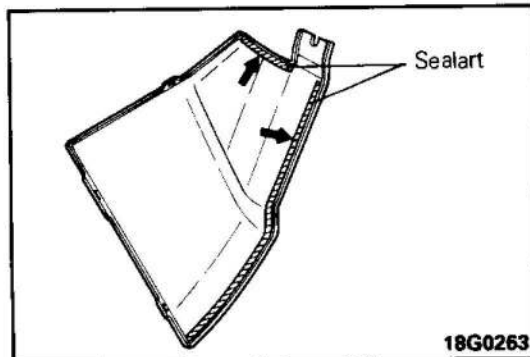
**1. REMOVAL OF LOWER MOULDING**

Refer to P. 42-14.

**2. REMOVAL OF SCREW**

**Caution**

**Attach protective cloth or tape on front corner panel.**



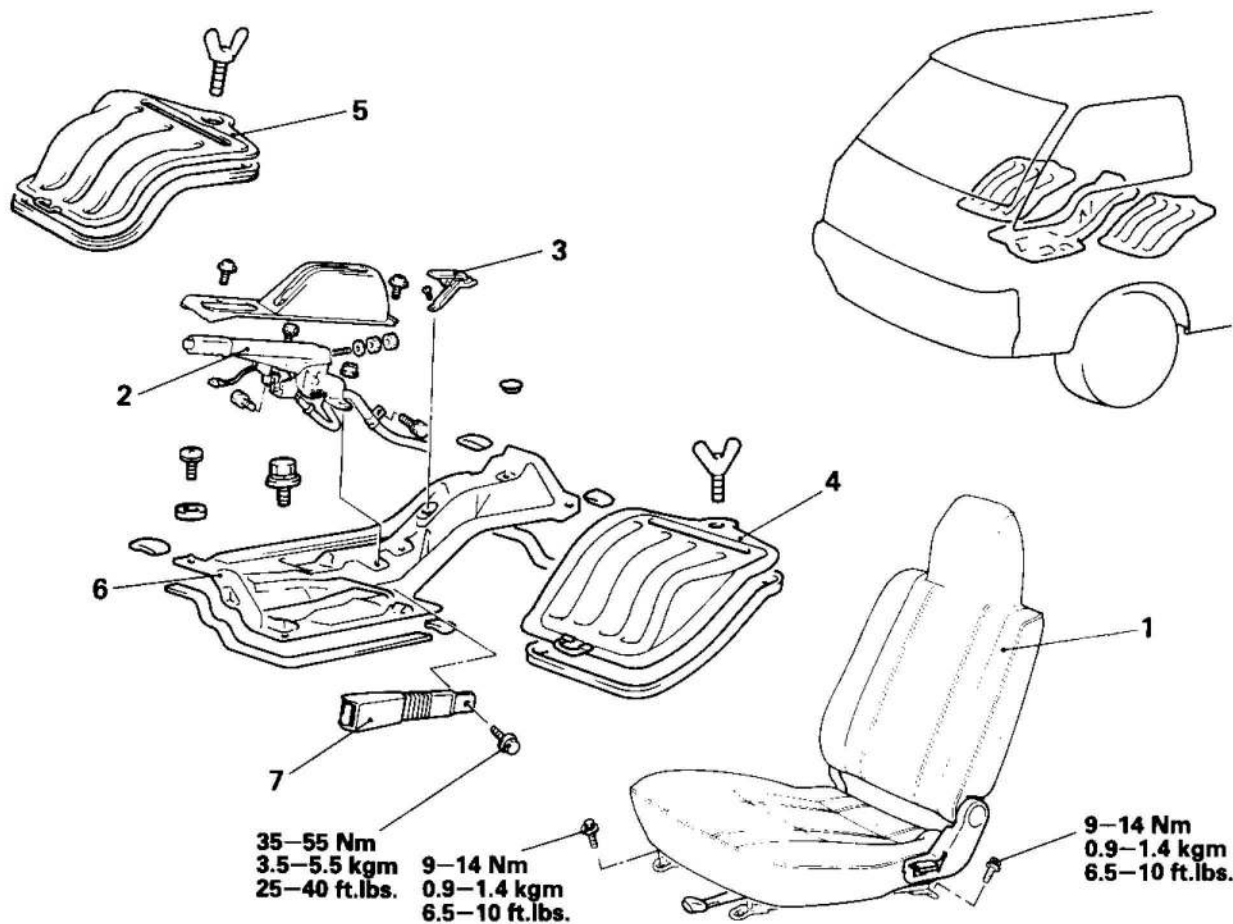
**SERVICE POINTS OF INSTALLATION**

**5. INSTALLATION OF SEAL/4. FRONT CORNER PANEL**

- (1) Clean tape contact surface on front panel and front corner panel. Remove grease. Apply specified sealant to front corner panel.

**Specified sealant: 3M Part No. 8625 or equivalent**

- (2) Observe the facing between front corner panel and body surface, and space when front door is opened and install front corner panel.

**SEAT UNDER FRAME****REMOVAL AND INSTALLATION**

18G0346

**Removal steps**

1. Front seat (driver's side)
- ◆◆ 2. Parking brake lever
3. Fuel filler door release handle
4. Cover (L.H. drive vehicles)
5. Cover (R.H. drive vehicles)
6. Seat under frame
7. Buckle stalk

**NOTE**

- (1) Reverse the removal procedures to reinstall.  
 (2) ◆◆ : Refer to "Service Points of Removal".

**Post-installation Operation**

- Adjustment of parking brake lever  
 (Refer to GROUP 36 PARKING BRAKES—  
 Service Adjustment Procedures.)

**SERVICE POINTS OF REMOVAL****2. REMOVAL OF PARKING BRAKE LEVER**

Refer to GROUP 36 PARKING BRAKES—Parking Brake Lever.



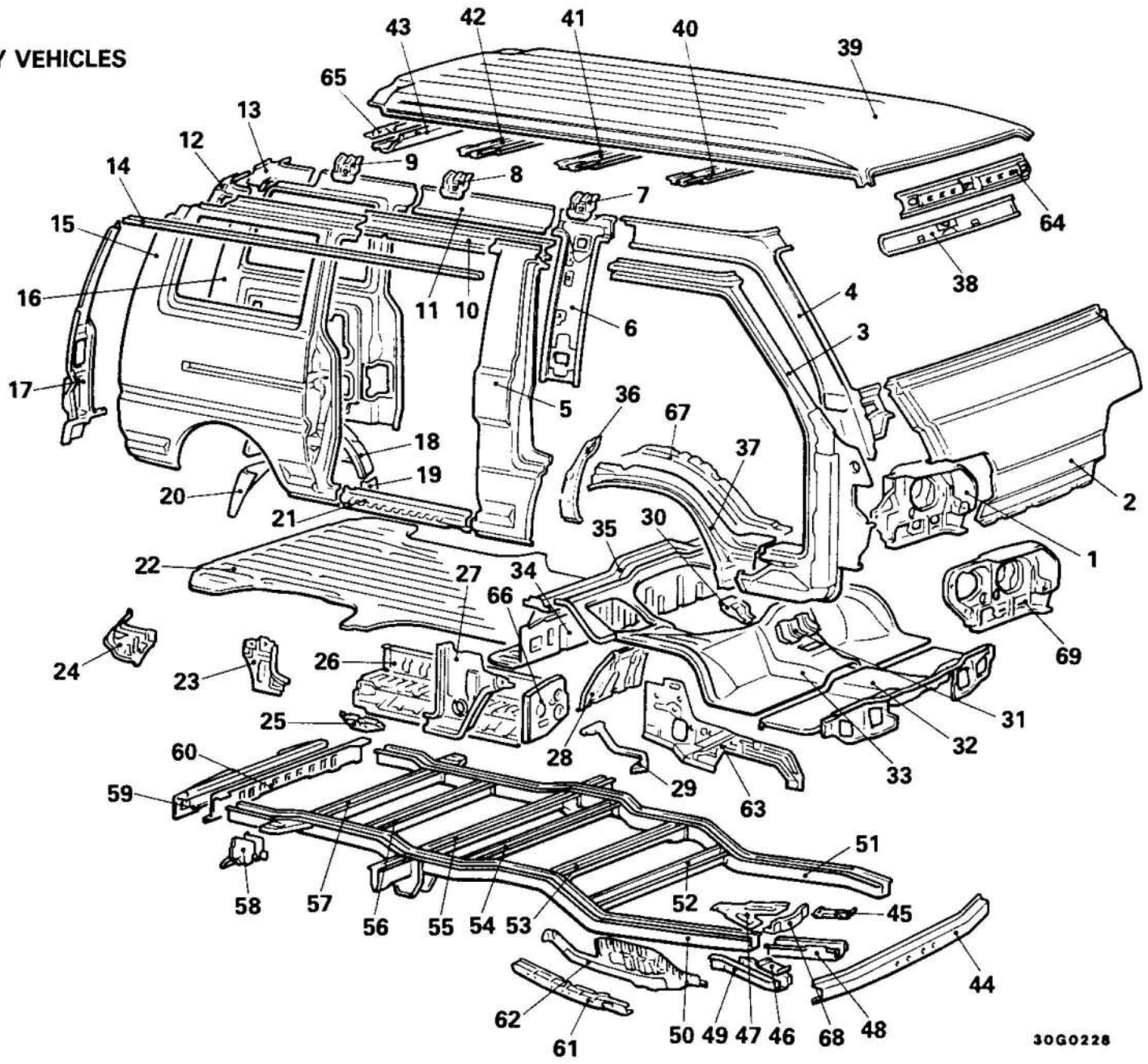


# BODY PANELLING

## COMPONENTS

### STANDARD BODY VEHICLES

Five doors



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PWW/E8608-1

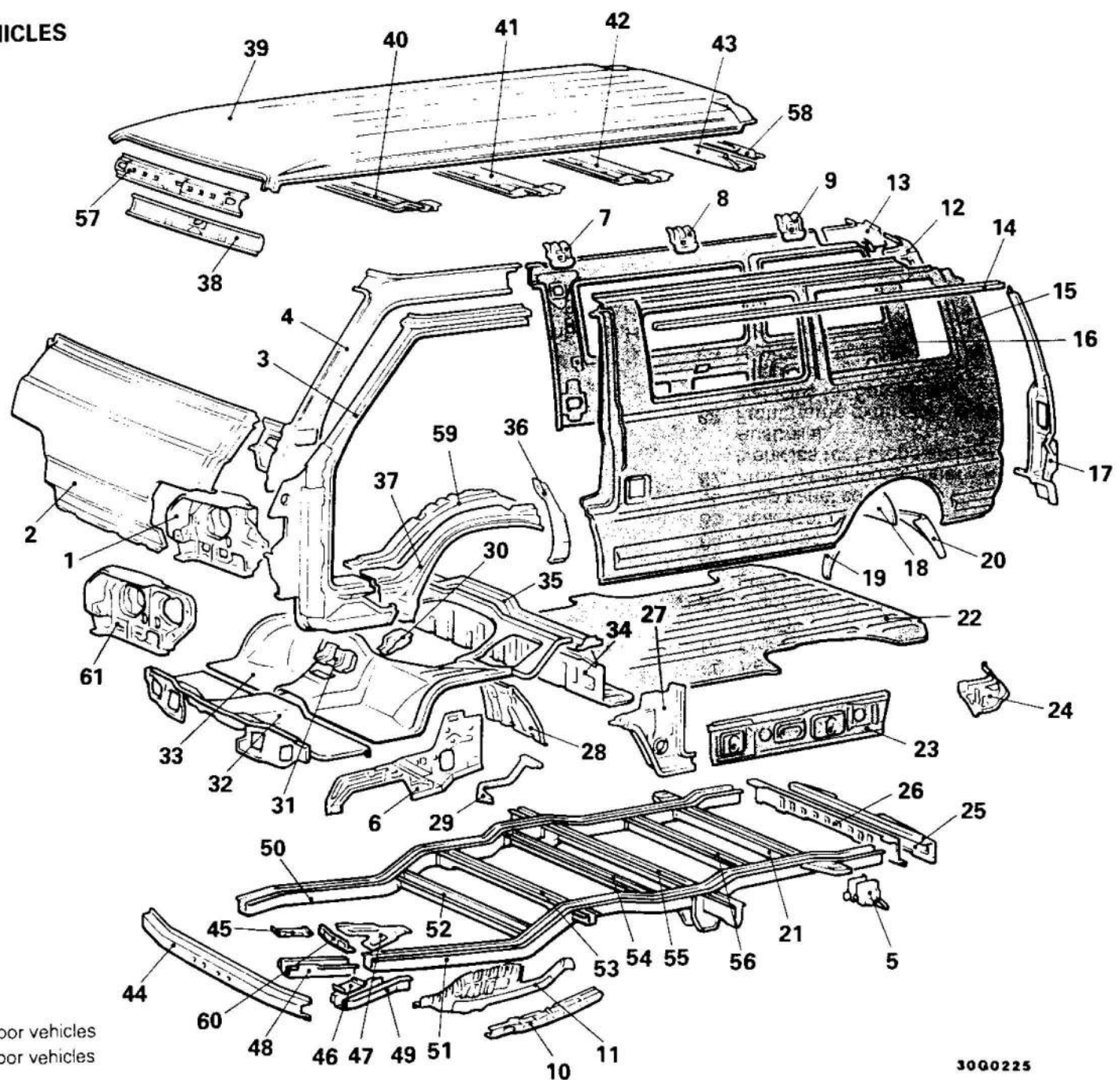
30G0228

E42YAAD

1. Headlamp housing
2. Front panel
3. Front pillar, outer
4. Front pillar, inner, upper
5. B-pillar, outer
6. B-pillar, inner
7. Front roof bow bracket
8. Centre roof bow bracket
9. Rear roof bow bracket
10. Side roof rail, outer
11. Side roof rail, inner
12. Rear roof rail outer extension
13. Rear roof rail inner extension
14. Drip channel
15. Quarter panel, outer
16. Quarter panel, inner
17. Rear quarter outer extension
18. Rear wheelhouse, inner
19. Front wheelhouse, outer lower
20. Rear wheelhouse, outer, lower
21. Rear floor side sill, outer
22. Rear floor panel
23. Quarter, inner, lower, front
24. Quarter, inner, lower, rear
25. Door check bracket
26. Rear side step panel
27. Centre pillar, inner, lower
28. Shield panel, rear
29. Front floor extension  
(diesel-powered vehicles)
30. Radiator support (4WD)
31. Shift lever reinforcement
32. Front floor pan (A)
33. Front floor pan (B)
34. Upright floor panel
35. Upright floor crossmember
36. Splash shield
37. Front side sill, outer
38. Front roof rail, inner
39. Roof panel
40. Front roof bow
41. Centre roof bow
42. Rear roof bow
43. Rear roof rail, inner
44. Front end crossmember
45. Cover panel (A)
46. Cover panel (B)
47. Cover panel (C)
48. Front sidemember (A)
49. Front sidemember (B)
50. Body frame (sidemember) R.H.
51. Body frame (sidemember) L.H.
52. Crossmember No. 1
53. Crossmember No. 2
54. Crossmember No. 3
55. Crossmember No. 4
56. Crossmember No. 5
57. Crossmember No. 6
58. Shackle hanger bracket
59. Rear end crossmember, outer
60. Rear end crossmember, inner
61. Front sidemember, lower, outer  
(4WD)
62. Front sidemember, lower, inner  
(4WD)
63. Shield panel, inner
64. Front roof rail, outer
65. Rear roof rail, outer
66. Step panel cover
67. Front wheelhouse, inner  
(vehicles for Europe and  
Australia)
68. Front frame extension, lower  
(vehicles for Europe and  
Australia)
69. Headlamp housing  
(vehicles for Australia)

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**STANDARD BODY VEHICLES**  
**Four doors**  
**(L.H. drive vehicles)**



□ : Same panel as five door vehicles  
 ■ : New panel for four door vehicles

**NOTE**  
 The illustration shows the left side.  
 The right side is the same as for standard body vehicles with five doors.

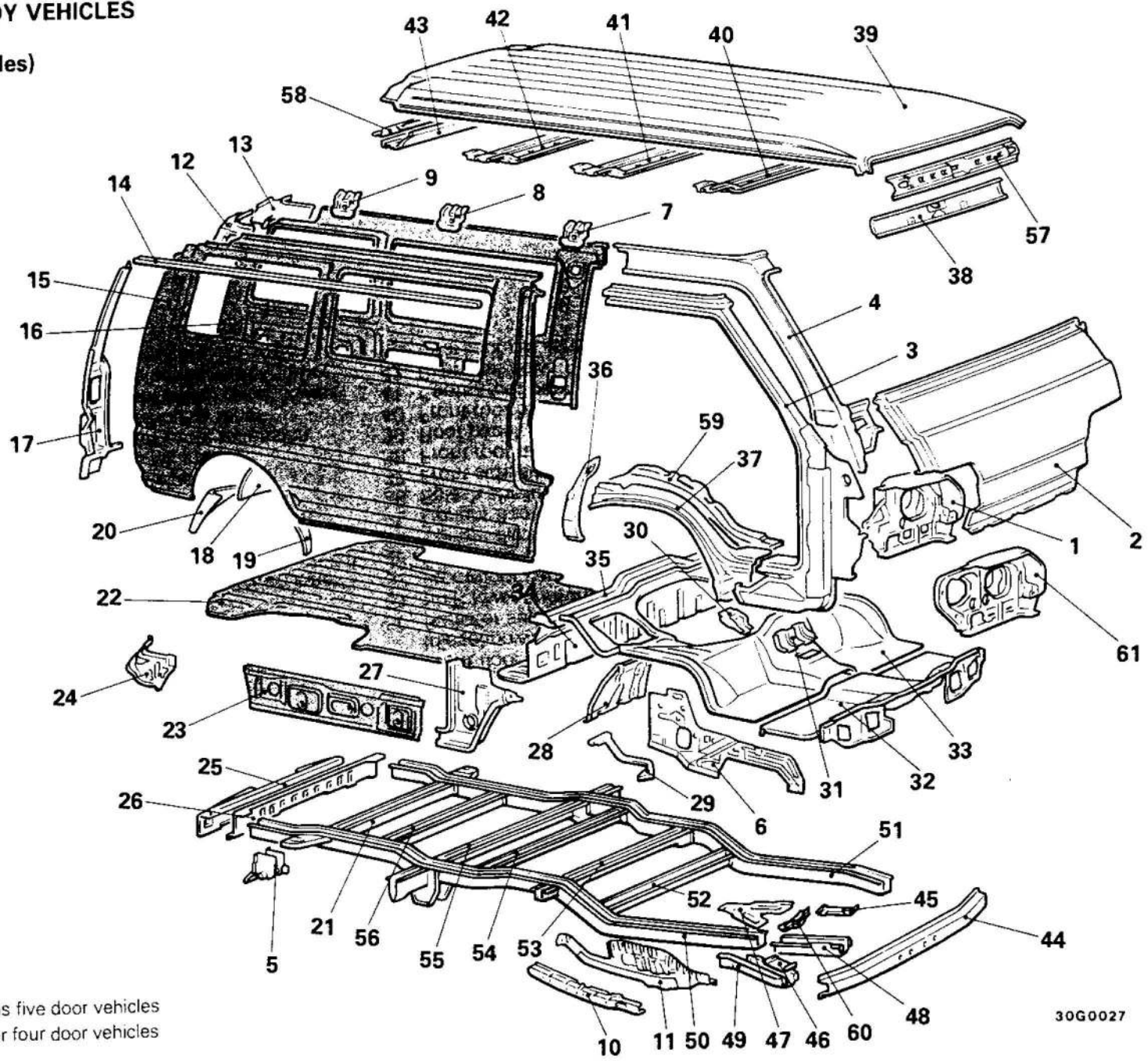
3000225

PWW/E8608-1

1. Headlamp housing
2. Front panel
3. Front pillar, outer
4. Front pillar, inner, upper
5. Shackle hanger bracket
6. Shield panel, inner
7. Front roof bow bracket
8. Centre roof bow bracket
9. Rear roof bow bracket
10. Front sidemember, lower, outer (4WD)
11. Front sidemember, lower, inner (4WD)
12. Rear roof rail outer extension
13. Rear roof rail inner extension
14. Drip channel
15. Quarter panel, outer
16. Quarter panel, inner
17. Rear quarter outer extension
18. Rear wheelhouse, inner
19. Front wheelhouse, outer, lower
20. Rear wheelhouse, outer, lower
21. Crossmember No. 6
22. Rear floor panel
23. Quarter, inner, lower, front
24. Quarter, inner, lower, rear
25. Rear end crossmember, outer
26. Rear end crossmember, inner
27. Centre pillar, inner, lower
28. Shield panel, rear
29. Front floor extension (diesel-powered vehicles)
30. Radiator support (4WD)
31. Shift lever reinforcement
32. Front floor pan (A)
33. Front floor pan (B)
34. Upright floor panel
35. Upright floor crossmember
36. Splash shield
37. Front side sill, outer
38. Front roof rail, inner
39. Roof panel
40. Front roof bow
41. Centre roof bow
42. Rear roof bow
43. Rear roof rail, inner
44. Front end crossmember
45. Cover panel (A)
46. Cover panel (B)
47. Cover panel (C)
48. Front sidemember (A)
49. Front sidemember (B)
50. Body frame (sidemember) R.H.
51. Body frame (sidemember) L.H.
52. Crossmember No. 1
53. Crossmember No. 2
54. Crossmember No. 3
55. Crossmember No. 4
56. Crossmember No. 5
57. Front roof rail, outer
58. Rear roof rail, outer
59. Front wheelhouse, inner (vehicles for Europe and Australia)
60. Front frame extension, lower (vehicles for Europe and Australia)
61. Headlamp housing (vehicles for Australia)

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**STANDARD BODY VEHICLES**  
**Four doors**  
**(R.H. drive vehicles)**



□ : Same panel as five door vehicles  
 ■ : New panel for four door vehicles

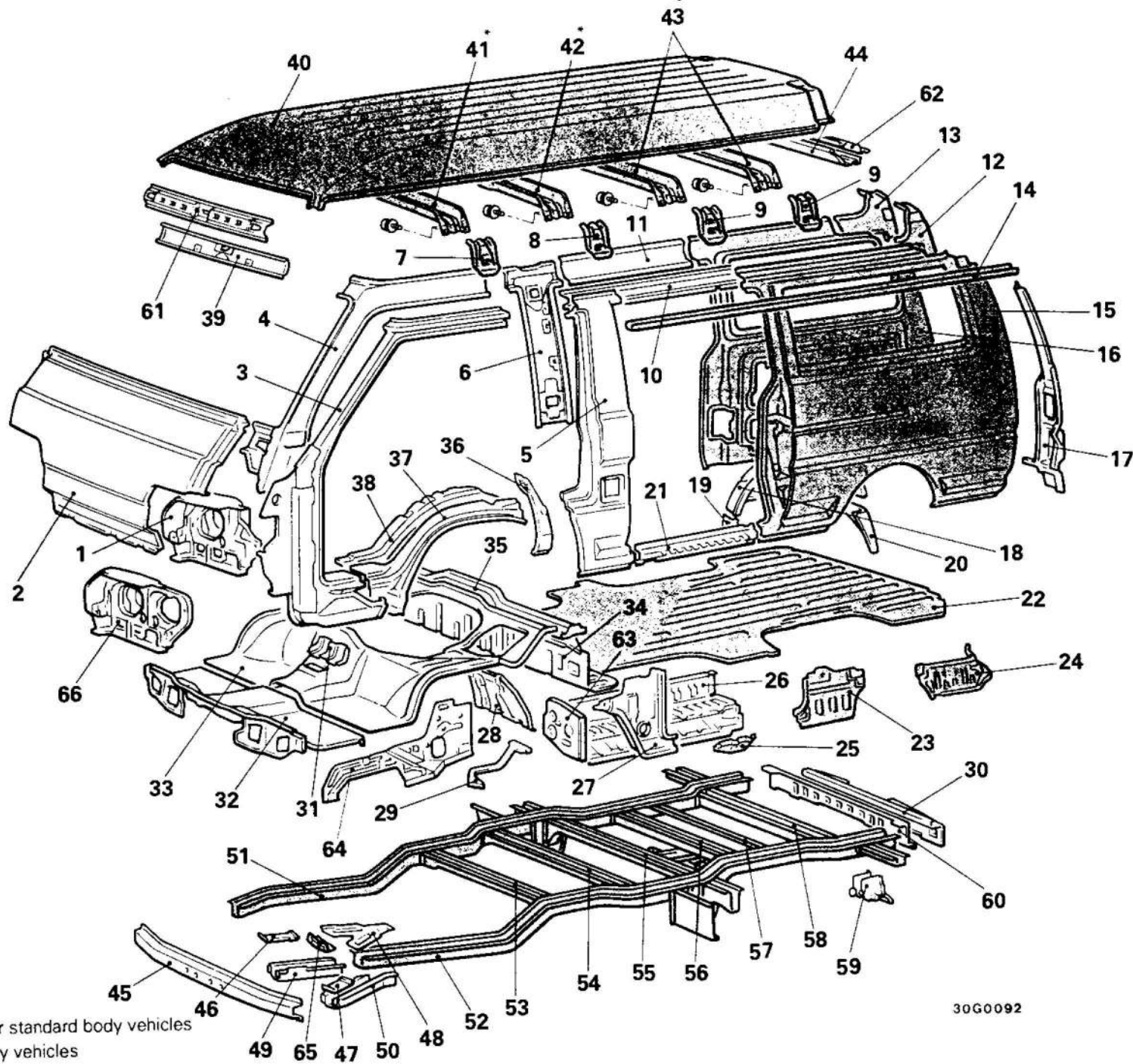
NOTE  
 The illustration shows the right side.  
 The left side is the same as for standard body vehicles with five doors.

30G0027

PWW/E8608-1

- |   |  |  |
|---|--|--|
| 1. Headlamp housing                         | 22. Rear floor panel                                   | 44. Front end crossmember  |
| 2. Front panel                              | 23. Quarter, inner, lower, front                       | 45. Cover panel (A)  |
| 3. Front pillar, outer                      | 24. Quarter, inner, lower, rear                        | 46. Cover panel (B)  |
| 4. Front pillar, inner, upper               | 25. Rear end crossmember, outer                        | 47. Cover panel (C)  |
| 5. Shackle hanger bracket                   | 26. Rear end crossmember, inner                        | 48. Front sidemember (A)   |
| 6. Shield panel, inner                      | 27. Centre pillar, inner, lower                        | 49. Front sidemember (B)   |
| 7. Front roof bow bracket                   | 28. Shield panel, rear                                 | 50. Body frame (sidemember) R.H.   |
| 8. Centre roof bow bracket                  | 29. Front floor extension<br>(diesel-powered vehicles) | 51. Body frame (sidemember) L.H.   |
| 9. Rear roof bow bracket                    | 30. Radiator support (4WD)                             | 52. Crossmember No. 1  |
| 10. Front sidemember, lower, outer<br>(4WD) | 31. Shift lever reinforcement                          | 53. Crossmember No. 2  |
| 11. Front sidemember, lower, inner<br>(4WD) | 32. Front floor pan (A)                                | 54. Crossmember No. 3  |
| 12. Rear roof rail outer extension          | 33. Front floor pan (B)                                | 55. Crossmember No. 4  |
| 13. Rear roof rail inner extension          | 34. Upright floor panel                                | 56. Crossmember No. 5  |
| 14. Drip channel                            | 35. Upright floor crossmember                          | 57. Front roof rail, outer   |
| 15. Quarter panel, outer                    | 36. Splash shield                                      | 58. Rear roof rail, outer  |
| 16. Quarter panel, inner                    | 37. Front side sill, outer                             | 59. Front wheelhouse, inner<br>(vehicles for Europe and<br>Australia)      |
| 17. Rear quarter outer extension            | 38. Front roof rail, inner                             | 60. Front frame extension, lower<br>(vehicles for Europe and<br>Australia) |
| 18. Rear wheelhouse, inner                  | 39. Roof panel   | 61. Headlamp housing<br>(vehicles for Australia)                           |
| 19. Front wheelhouse, outer, lower          | 40. Front roof bow                                     |  |
| 20. Rear wheelhouse, outer, lower           | 41. Centre roof bow                                    |  |
| 21. Crossmember No. 6                       | 42. Rear roof bow                                      |  |
|   | 43. Rear roof rail, inner                              |  |

**LONG BODY VEHICLES**  
Five doors



□ : Same panel as five door standard body vehicles  
 ■ : New panel for long body vehicles

\* Front, centre and rear roof bows are installed with bolts.

30G0092

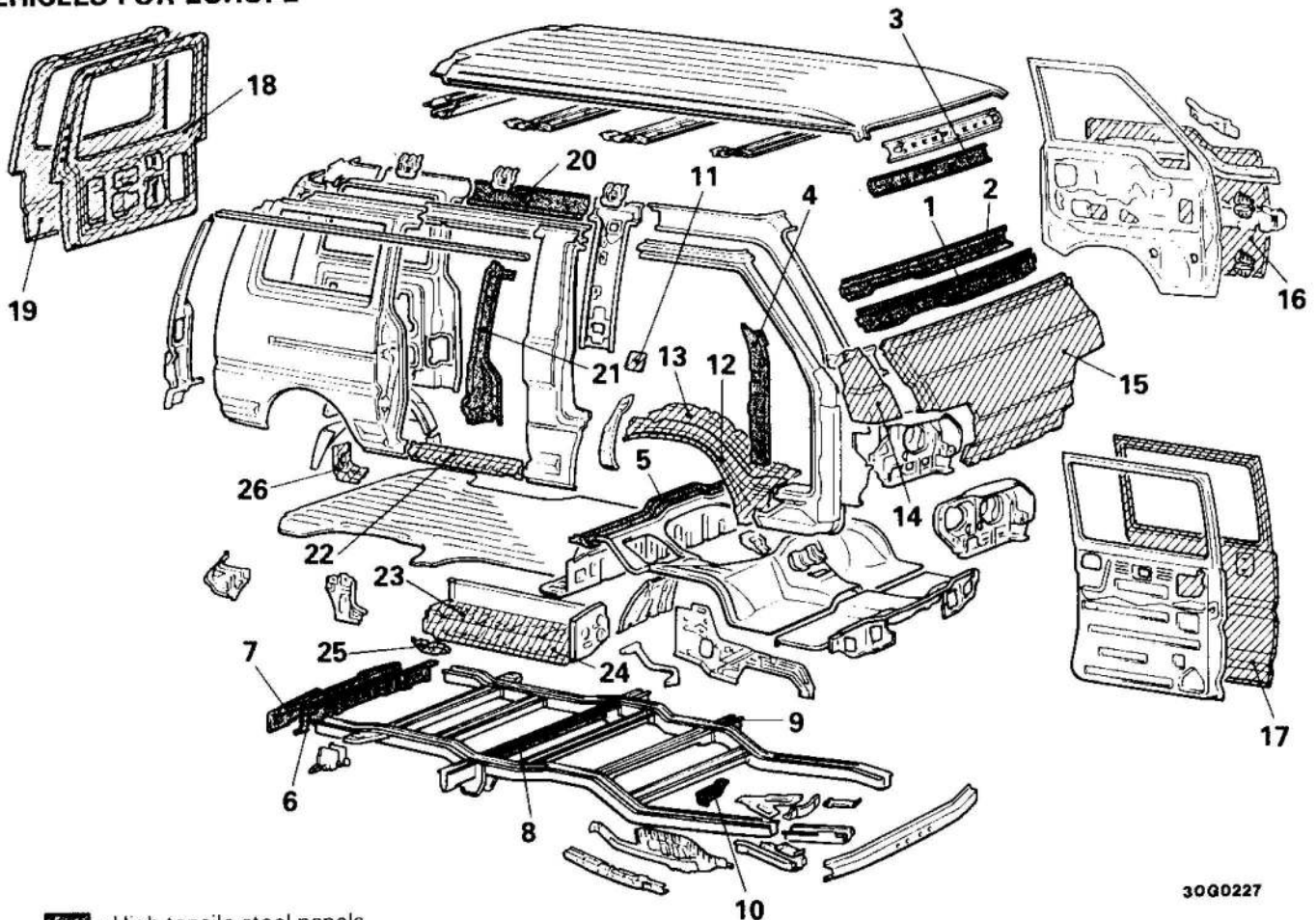


1. Headlamp housing
2. Front panel
3. Front pillar, outer
4. Front pillar, inner, upper
5. B-pillar, outer
6. B-pillar, inner
7. Front roof bow bracket
8. Centre roof bow bracket
9. Rear roof bow bracket
10. Side roof rail, outer
11. Side roof rail, inner
12. Rear roof rail outer extension
13. Rear roof rail inner extension
14. Drip channel
15. Quarter panel, outer
16. Quarter panel, inner
17. Rear quarter outer extension
18. Rear wheelhouse, inner
19. Front wheelhouse, outer, lower
20. Rear wheelhouse, outer, lower
21. Rear floor side sill, outer
22. Rear floor panel
23. Quarter, inner, lower, front
24. Quarter, inner, lower, rear
25. Door check bracket
26. Rear side step panel
27. Centre pillar, inner, lower
28. Shield panel, rear
29. Front floor extension  
(diesel-powered vehicles)
30. Rear end crossmember, outer
31. Shift lever reinforcement
32. Front floor pan (A)
33. Front floor pan (B)
34. Upright floor panel
35. Upright floor crossmember
36. Splash shield
37. Front side sill, outer
38. Front wheelhouse, inner
39. Front roof rail, inner
40. Roof panel
41. Front roof bow
42. Centre roof bow
43. Rear roof bow
44. Rear roof rail, inner
45. Front end crossmember
46. Cover panel (A)
47. Cover panel (B)
48. Cover panel (C)
49. Front sidemember (A)
50. Front sidemember (B)
51. Body frame (sidemember) R.H.
52. Body frame (sidemember) L.H.
53. Crossmember No. 1
54. Crossmember No. 2
55. Crossmember No. 3
56. Crossmember No. 4
57. Crossmember No. 5
58. Crossmember No. 6
59. Shackle hanger bracket
60. Rear end crossmember, inner
61. Front roof rail, outer
62. Rear roof rail, outer
63. Step panel cover
64. Shield panel, inner
65. Front frame extension, lower  
(vehicles for Europe and  
Australia)
66. Headlamp housing  
(vehicles for Australia)

## SPECIAL STEEL PANELS

Special steel panels are used in the illustrated positions.

## VEHICLES FOR EUROPE



■ : High-tensile steel panels  
 ▨ : Galvanized steel panels

30G0227

No.	Part name	Material*	No.	Part name	Material*
1.	Upper crossmember cover	SPRC35	15.	Front panel	SGAC35R
2.	Front end upper crossmember	SPRC35	16.	Front door, outer	SGAC35R
3.	Front roof rail, inner	SPRC35	17.	Rear door, outer	SGACC
4.	Front door hinge reinforcement	SPRC35	18.	Tailgate, inner	SGACC
5.	Upright floor crossmember	SPRC35	19.	Tailgate, outer	SGAC35R
6.	Rear end crossmember, inner	SPRC35	20.	Side roof rail, inner	SPRC35
7.	Rear end crossmember, outer	SPRC35	21.	C-pillar reinforcement	SPRC35
8.	Crossmember No. 4	SPRC35	22.	Rear floor side sill, outer	SGACC
9.	Front brace	SPRC35	23.	Rear step panel R.H.	SGACC
10.	Front floor brace	SPRC35	24.	Rear door rail support	SGACC
11.	Fuel filler lid	SGACC	25.	Door check bracket	SGACC
12.	Front side sill, outer	SGACC	26.	Rear door stopper reinforcement, lower, rear	SGACC
13.	Front wheelhouse, inner	SGACC			
14.	Front corner panel	SGACE			

\*SPRC: Phosphorus added

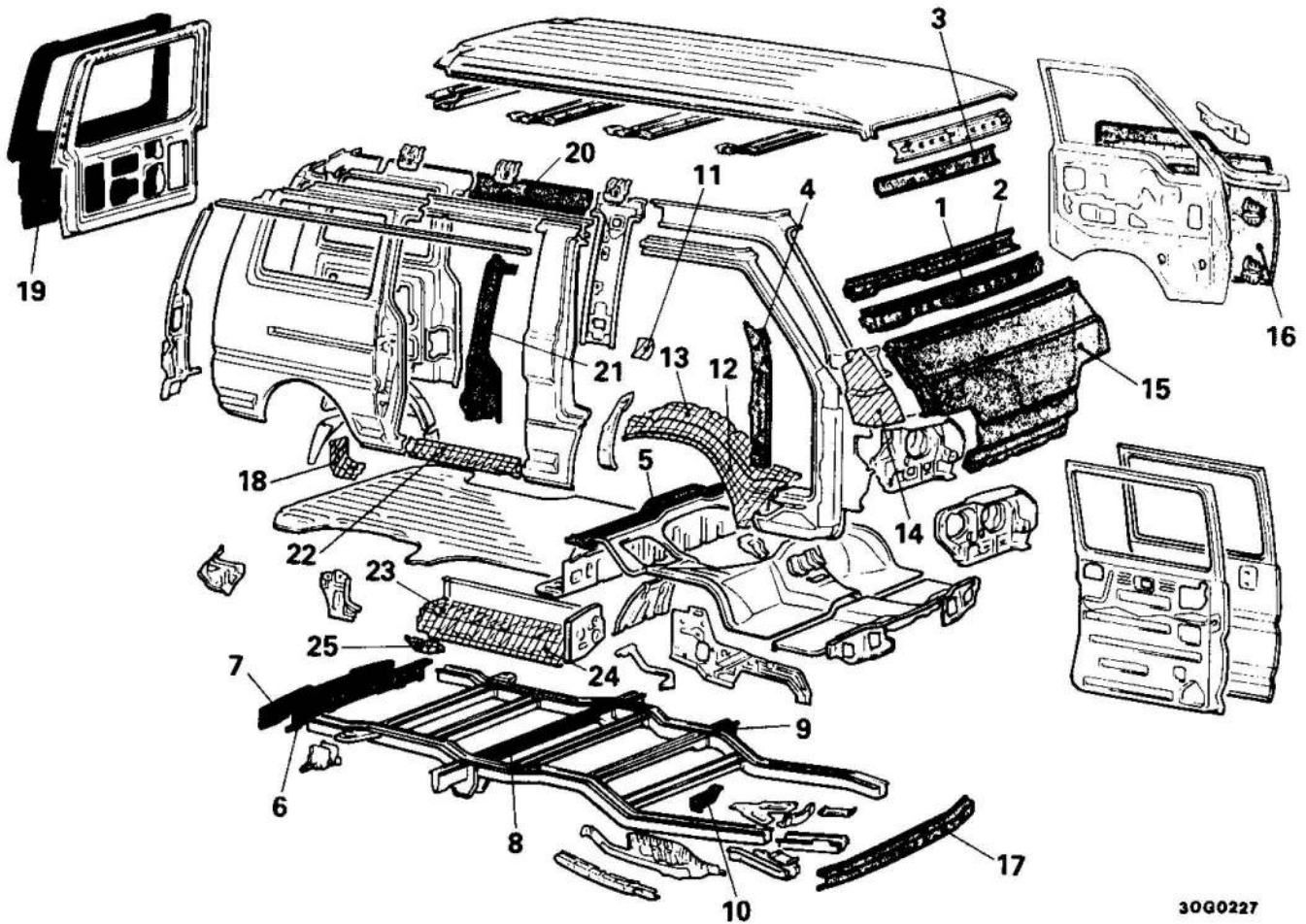
SGACC

SGACE

SGAC35R: Phosphorus added (also galvanized)

The numbers in the material codes indicate the tensile strength (kg/mm<sup>2</sup>).

VEHICLES FOR GENERAL EXPORT  
VEHICLES FOR AUSTRALIA



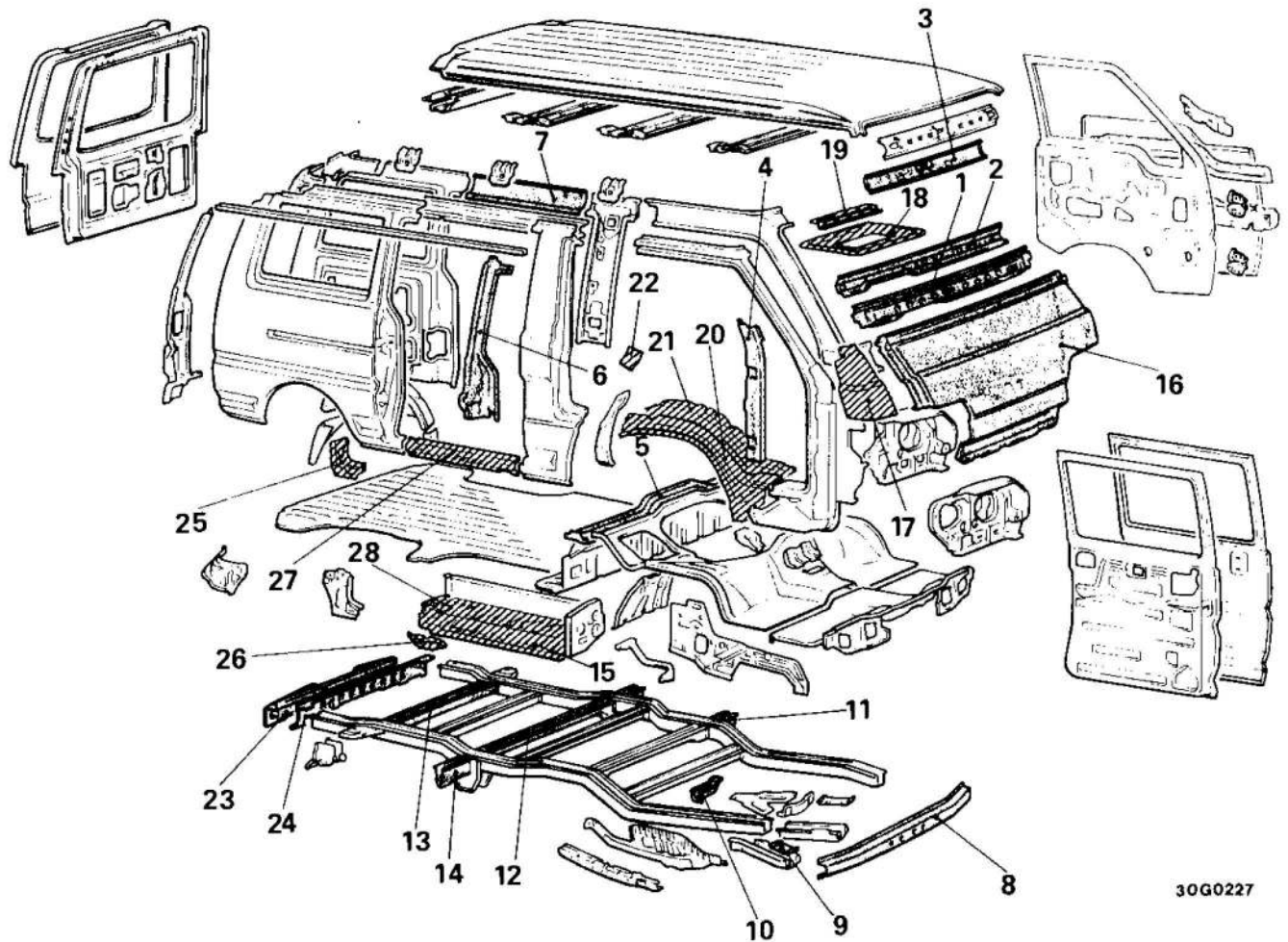
30G0227

■ : High-tensile steel panels  
▨ : Galvanized steel panels



No.	Part name	Material*	No.	Part name	Material*
1.	Upper crossmember cover	SPRC35	15.	Front panel	SPRC35
2.	Front end upper crossmember	SPRC35	16.	Front door, outer	SPRC35
3.	Front roof rail, inner	SPRC35	17.	Front end crossmember (vehicles for General Export)	SPRC35
4.	Front door hinge reinforcement	SPRC35	18.	Rear door stopper reinforcement, lower, rear	SGACC
5.	Upright floor crossmember	SPRC35	19.	Tailgate, outer	SPRC35
6.	Rear end crossmember, inner	SPRC35	20.	Side roof rail, inner	SPRC35
7.	Rear end crossmember, outer	SPRC35	21.	C-pillar reinforcement	SPRC35
8.	Crossmember No. 4	SPRC35	22.	Rear floor side sill, outer	SGACC
9.	Front brace	SPRC35	23.	Rear step panel R.H.	SGACC
10.	Front floor brace	SPRC35	24.	Rear door rail support	SGACC
11.	Fuel filler lid	SGACC	25.	Door check bracket	SGACC
12.	Front side sill, outer	SGACC			
13.	Front wheelhouse, inner	SGACC			
14.	Front corner panel	SGACC			

\*SPRC: Phosphorus added  
SGACC: Galvannealed steel plate  
The numbers in the material codes indicate the tensile strength (kg/mm<sup>2</sup>).

## VEHICLES FOR GENERAL EXPORT



30G0227

-  : High-tensile steel panels  
 : Galvanized steel panels

No.	Part name	Material*	No.	Part name	Material*
1.	Upper crossmember cover	SPRC35	17.	Front corner panel	SGACC
2.	Front end upper crossmember	SPRC35	18.	Tilt roof housing (Vehicles with crystal light roof)	SGACE
3.	Front roof rail, inner	SPRC35	19.	Front roof panel reinforcement (Vehicles with crystal light roof)	SGACE
4.	Front door hinge reinforcement	SPRC35	20.	Front side sill, outer	SGACC
5.	Upright floor crossmember	SPRC35	21.	Front wheelhouse, inner	SGACC
6.	C-pillar reinforcement	SPRC35	22.	Fuel filler lid	SGACC
7.	Side roof rail, inner	SPRC35	23.	Rear end crossmember, outer	SPRC35
8.	Front end crossmember	SPRC35	24.	Rear end crossmember, inner	SPRC35
9.	Cover panel (B)	SPRC35	25.	Rear door stopper reinforcement, lower, rear	SGACC
10.	Front floor brace	SPRC35	26.	Door check bracket	SGACC
11.	Front brace	SPRC35	27.	Rear floor side sill, outer	SGACC
12.	Crossmember No.4	SPRC35	28.	Rear step panel	SGACC
13.	Crossmember No.7 (long body)	SPRC35			
14.	Rear brace	SPRC35			
15.	Rear door rail support	SGACC			
16.	Front panel	SPRC35			

\*SPRC: Phosphorus added

SGACC, CE: Galvannealed steel plate

The numbers in the material codes indicate the tensile strength (kg/mm<sup>2</sup>).

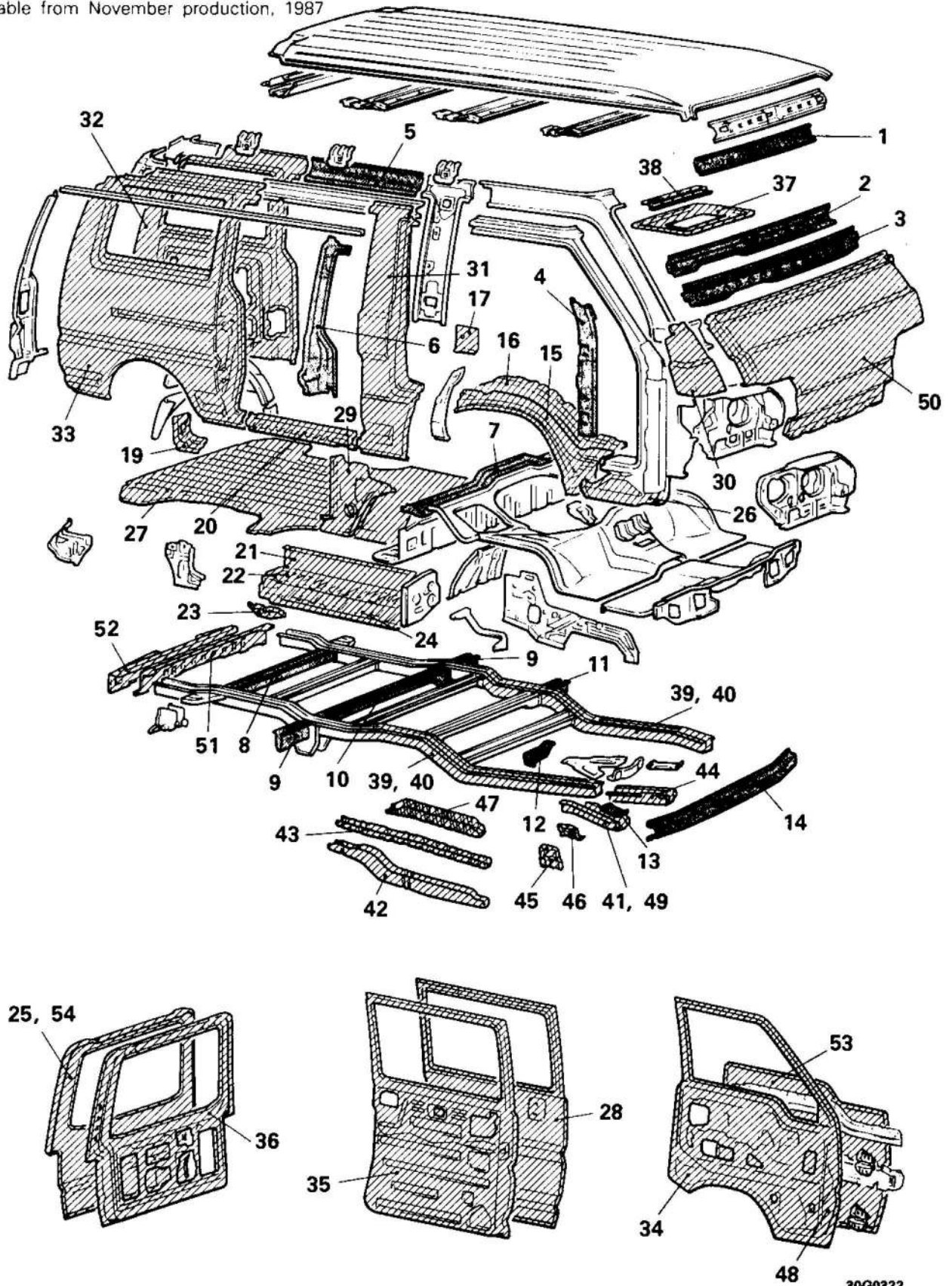
**SPECIAL STEEL PANELS\***

Special steel panels are used in the illustrated positions.

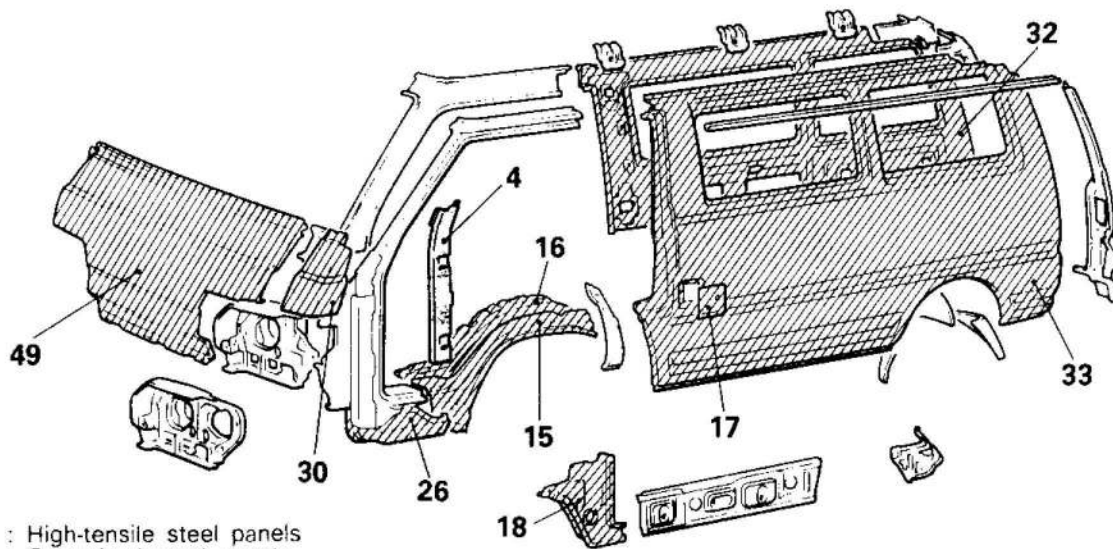
**VEHICLES FOR EUROPE**

**VEHICLES FOR GENERAL EXPORT**

\*Applicable from November production, 1987



30G0322



30G0226

No.	Part name	Material*	No.	Part name	Material*	
1.	Front roof rail, inner	SPRC35	33.	Quarter panel, outer	SGACE	
2.	Front end upper crossmember		34.	Front door, inner		
3.	Upper crossmember cover		35.	Rear door, inner		
4.	Front door hinge reinforcement		36.	Tailgate, inner		
5.	Side roof rail, inner		*37.	Tilt roof housing (vehicles for General Export)		
6.	C-pillar reinforcement		*38.	Front roof panel reinforcement (vehicles for General Export)		
7.	Upright floor crossmember		39.	Center sidemember (vehicles for Europe)		SGAPH38
8.	Crossmember No. 7 (long body vehicles)		40.	Center sidemember (vehicles for General Export)		
9.	Rear brace		41.	Front sidemember (B) (vehicles for Europe)		
10.	Crossmember No. 4		42.	Front sidemember reinforcement (A) (vehicles for Europe)		
11.	Front brace		43.	Front sidemember reinforcement (B) (vehicles for Europe)		
12.	Front floor brace		44.	Front sidemember (A) (vehicles for General Export)		
13.	Cover panel (B) (vehicles for General Export)		45.	Upper arm bracket (vehicles for General Export)		
14.	Front end crossmember (vehicles for General Export)		46.	Upper arm bracket reinforcement (vehicles for General Export)		
15.	Front side sill, outer	47.	Front sidemember reinforcement (vehicles for General Export)			
16.	Front wheelhose, inner	48.	Front door, inner (B)	SGAHC		
17.	Fuel filler lid	49.	Front sidemember (B) (vehicles for General Export)	SGAC35R		
18.	Center pillar, inner, lower (L.H.)	50.	Front panel			
19.	Rear door stopper reinforcement, lower, rear	51.	Rear end crossmember, inner			
20.	Rear floor side sill, outer	52.	Rear end crossmember, outer			
21.	Rear side sill, inner	53.	Front door, outer			
22.	Rear step panel	54.	Tailgate, outer (standard roof)			
23.	Door check bracket					
24.	Rear door rail support					
25.	Tailgate, outer (high roof)					
26.	Front step panel	SGACD				
27.	Rear floor panel					
28.	Rear door, outer					
29.	Center pillar, inner, lower (R.H.)	SGACE				
30.	Front corner panel					
31.	B-pillar, outer					
32.	Quarter panel, inner					

\*SPRC: Phosphorus added

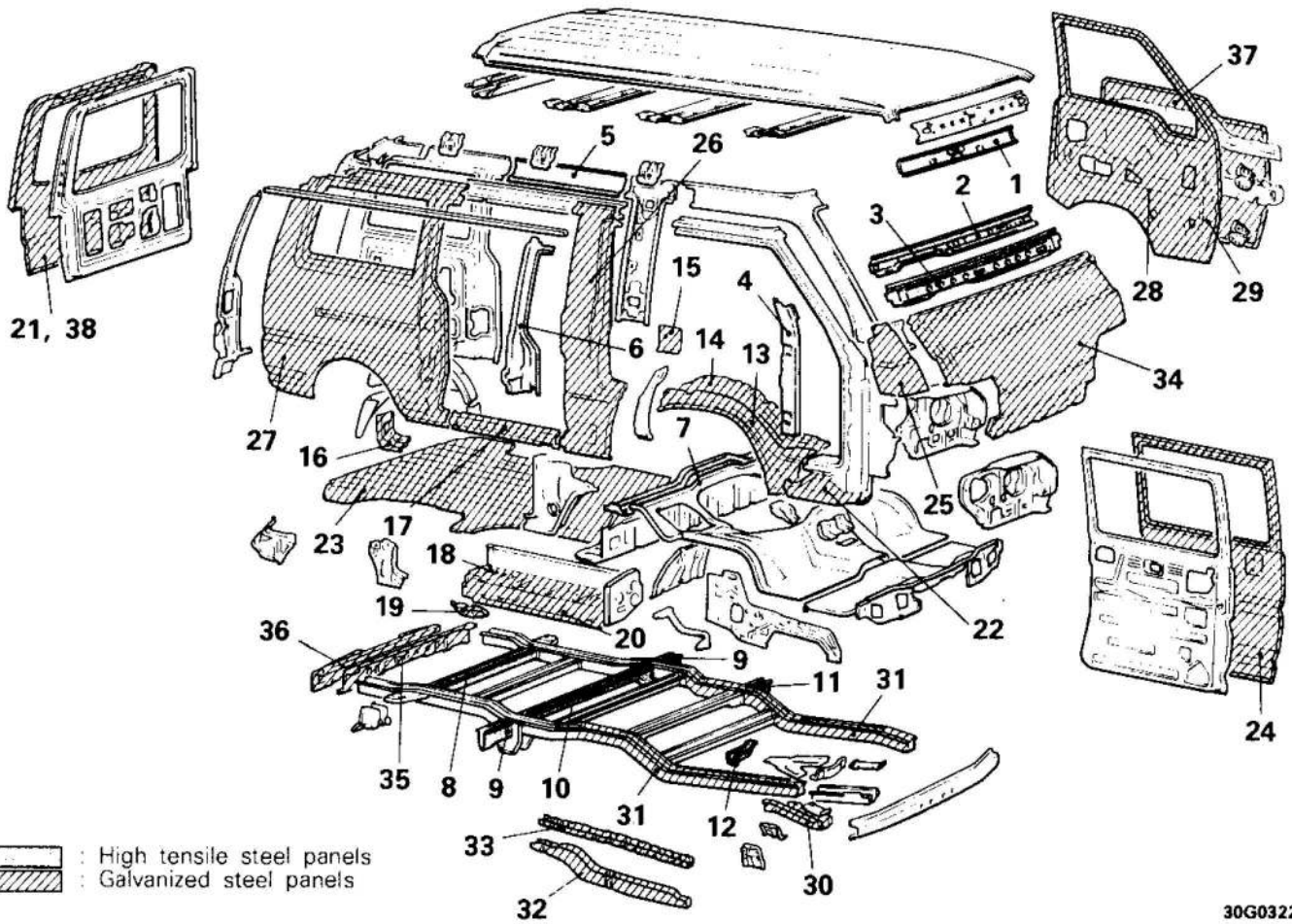
\* Vehicles with crystal light roof

SGA: Galvannealed steel plate

SGAC35R: Phosphorus added (also galvannealed)

The numbers in the material codes indicate the tensile strength (kg/mm<sup>2</sup>).

VEHICLES FOR AUSTRALIA



30G0322

No.	Part name	Material*	No.	Part name	Material*	
1.	Front roof rail, inner	SPRC35	22.	Front step panel	SGACD	
2.	Front end upper crossmember		23.	Rear floor panel		
3.	Upper crossmember, cover		24.	Rear door, outer		
4.	Front door hinge reinforcement		25.	Front corner panel		SGACE
5.	Side roof rail, inner		26.	B-pillar, outer		
6.	C-pillar reinforcement		27.	Quarter panel, outer		
7.	Upright floor crossmember		28.	Front door, inner		SGAHC
8.	Crossmember No. 7 (long body vehicles)		29.	Front door, inner (B)		
9.	Rear brace		30.	Front sidemember (B)		SGAPH38
10.	Crossmember No. 4		31.	Center sidemember		
11.	Front brace		32.	Front sidemember reinforcement (A)		
12.	Front floor brace		33.	Front sidemember reinforcement (B)		SGAC35R
13.	Front side sill, outer	34.	Front panel			
14.	Front wheelhouse, inner	35.	Rear end crossmember, inner			
15.	Fuel filler lid	36.	Rear end crossmember, outer			
16.	Rear door stopper reinforcement, lower, rear	37.	Front door, outer			
17.	Rear floor side sill, outer	38.	Tailgate, outer (standard roof)			
18.	Rear step panel					
19.	Door check bracket	SGACC				
20.	Rear door rail support					
21.	Tailgate, outer (high roof)					

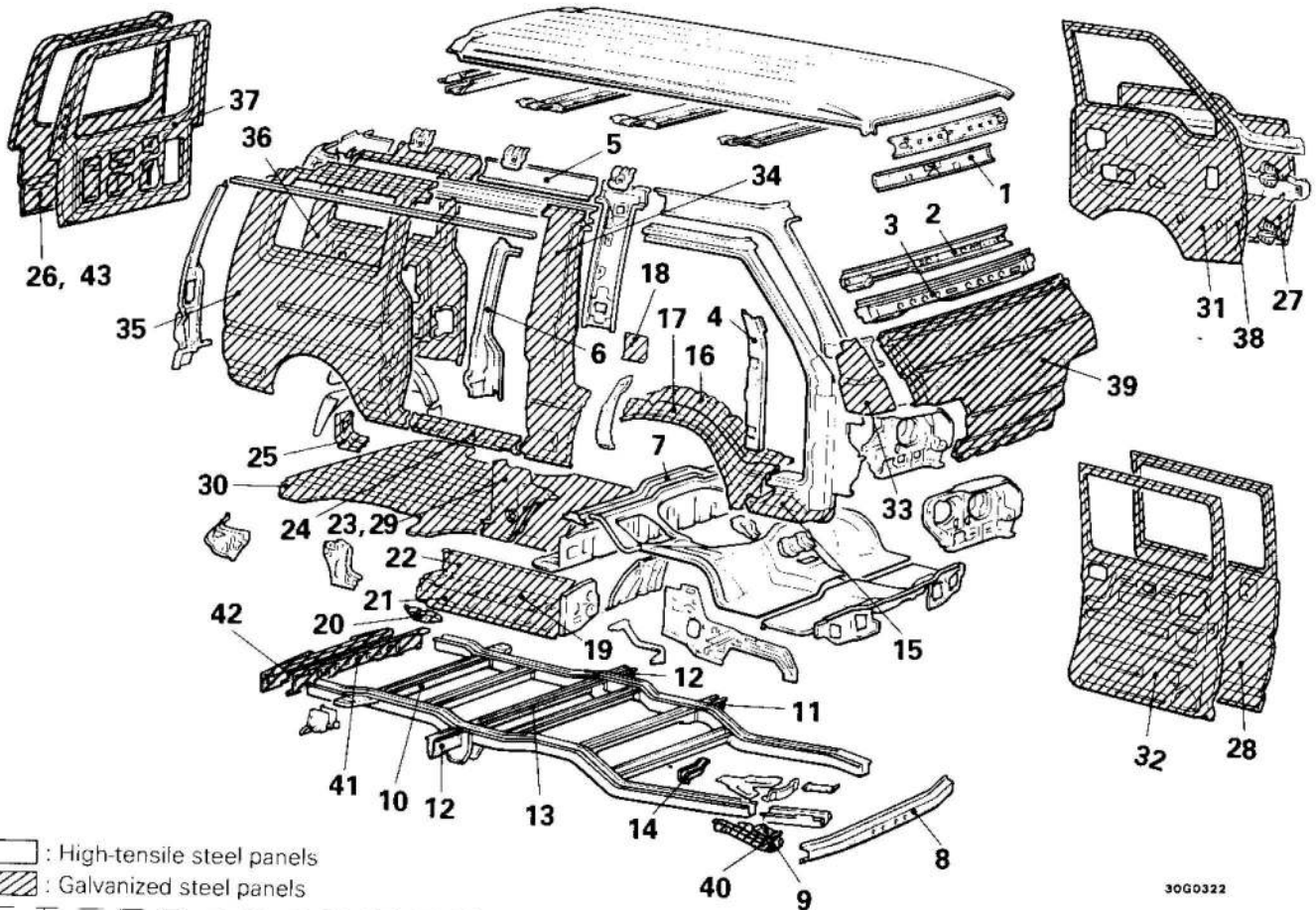
\*SPRC: Phosphorus added  
 SGA: Galvannealed steel panel  
 SGAC35R: Phosphorus added (also galvannealed)  
 The numbers in the material codes indicate the tensile strength (kg/mm<sup>2</sup>).





VEHICLES FOR GENERAL EXPORT

Applicable from '89 models



30G0322

□ : High-tensile steel panels  
 ▨ : Galvanized steel panels

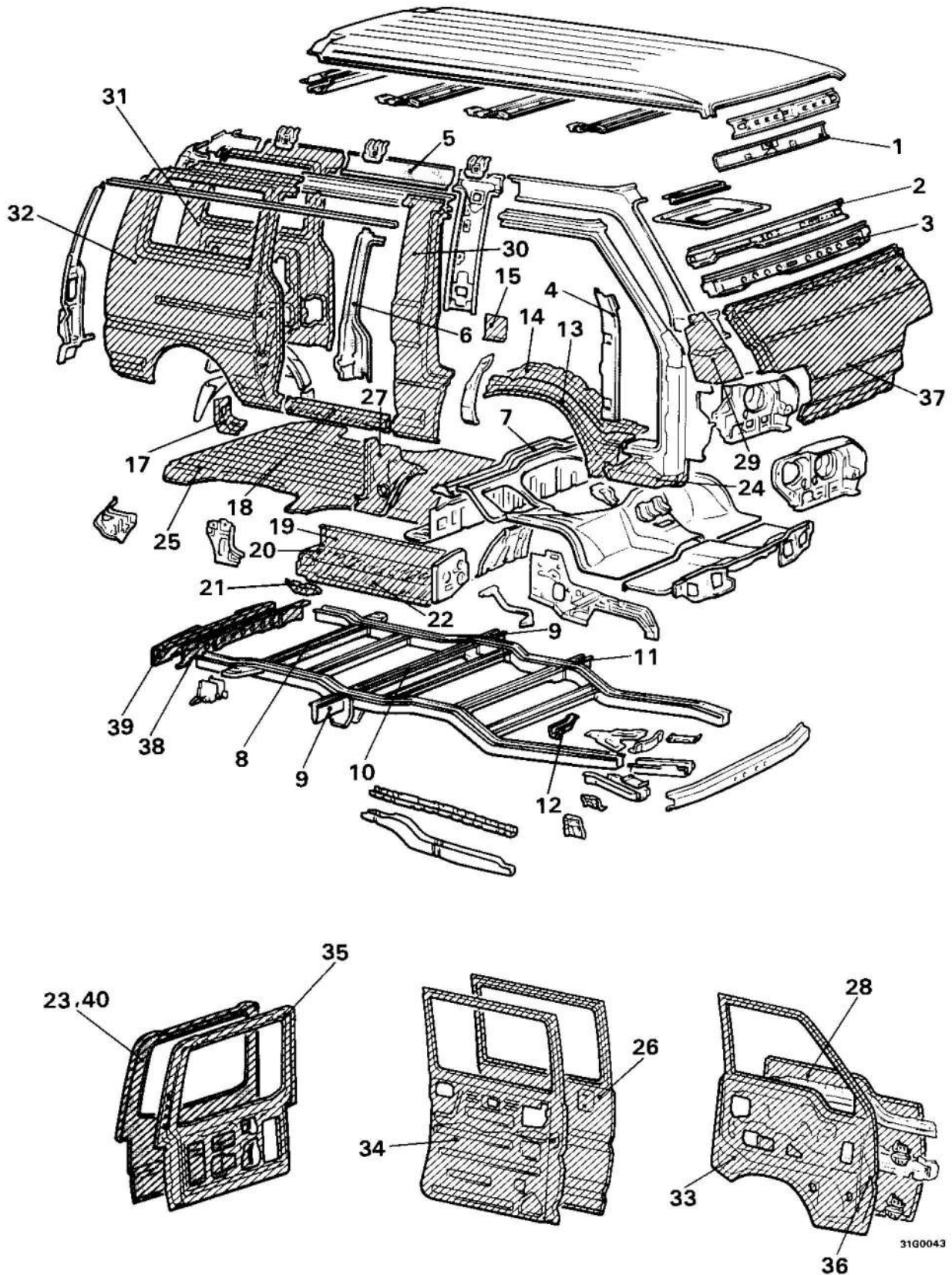
No.	Part name	Material*	No.	Part name	Material*
1.	Front roof rail, inner		24.	Rear floor side sill, outer	
2.	Front end upper crossmember		25.	Rear door stopper reinforcement, lower, rear	SGACC
3.	Upper crossmember cover		26.	Tail gate, outer (high roof)	
4.	Front door hinge reinforcement		27.	Front door, outer	
5.	Side roof rail, inner		28.	Rear door, outer	
6.	C-pillar reinforcement	SPRC35	29.	Center pillar, inner, lower R.H.	SGACD
7.	Upright floor crossmember		30.	Rear floor panel	
8.	Front end crossmember		31.	Front door, inner	
9.	Cover panel (B)		32.	Rear door, inner	
10.	Crossmember No. 7 (long body vehicles)		33.	Front corner panel	
11.	Front brace		34.	B-pillar, outer	SGACE
12.	Rear brace (long body vehicles)		35.	Quarter panel, outer	
13.	Crossmember No. 4		36.	Quarter panel, inner	
14.	Front floor brace	SAPH38	37.	Tailgate, inner	
15.	Front step panel		38.	Front door, inner (B)	SGAHC
16.	Front side sill, outer		39.	Front panel	
17.	Front wheelhouse, inner (long body vehicles)		40.	Front sidemember (B)	
18.	Fuel filler lid		41.	Rear end crossmember, inner	SGAC35R
19.	Rear step panel	SGACC	42.	Rear end crossmember, outer	
20.	Door check bracket		43.	Tailgate outer (standard roof)	
21.	Rear door rail support				
22.	Side sill, inner				
23.	Center pillar, inner, lower L.H.				

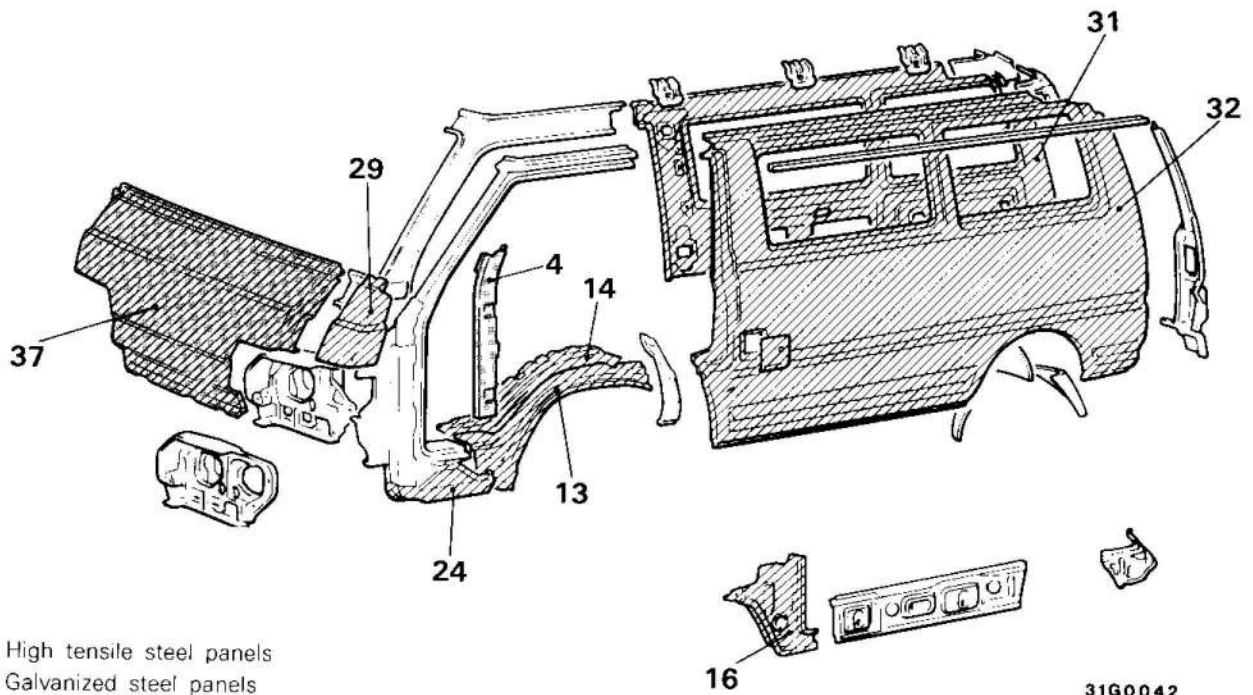
\*SPRC: Phosphorus added  
 SGA: Galvannealed steel panel  
 SGAC35R: Phosphorus added (also galvannealed)  
 SAPH: High tensile steel plate with solution strengthening using carbon.  
 The number in the material codes indicate the tensile strength (kg/mm<sup>2</sup>).



SPECIAL STEEL PANELS

Special steel panels are used in the illustrated positions.

VEHICLES FOR EUROPE AND VEHICLES FOR AUSTRALIA





 : High tensile steel panels  
 : Galvanized steel panels

No.	Part name	Material*	No.	Part name	Material*
1.	Front roof rail, inner		20.	Rear step panel	
2.	Front end upper crossmember		21.	Door check bracket	
3.	Upper crossmember cover		22.	Rear door rail support	SGACC
4.	Front door hinge reinforcement		23.	Tailgate, outer (high roof)	
5.	Side roof rail, inner		24.	Front step panel	
6.	C-pillar reinforcement		25.	Rear floor panel	
7.	Upright floor crossmember	SPRC35	26.	Rear door, outer	
8.	Crossmember No. 7 (long body vehicles)		*27.	Center pillar, inner, lower (R.H.)	SGACD
9.	Rear brace (long body vehicles)		28.	Front door, outer	
10.	Crossmember No. 4		29.	Front corner panel	
11.	Front brace		30.	B-pillar, outer	
12.	Front floor brace		31.	Quarter panel, inner	
13.	Front side sill, outer		32.	Quarter panel, outer	SGACE
14.	Front wheelhose, inner		33.	Front door, inner	
15.	Fuel filler lid		*34.	Rear door, inner	
*16.	Center pillar, inner, lower (L.H.)	SGACC	*35.	Tailgate, inner	
17.	Rear door stopper reinforcement, lower, rear		36.	Front door, inner (B)	SGAHC
18.	Rear floor side sill, outer		37.	Front panel	
*19.	Rear side sill, inner		38.	Rear end crossmember, inner	
			39.	Rear end crossmember, outer	SGAC35R
			40.	Tailgate, outer (standard roof)	

\*SGACC }  
 SGACD } Galvannealed steel plate  
 SGACE }

SGAC35R : Phosphorus added (also galvannealed)

SPRC : Phosphorus added

The numbers in the material codes indicate the tensile strength. (kg/mm<sup>2</sup>)

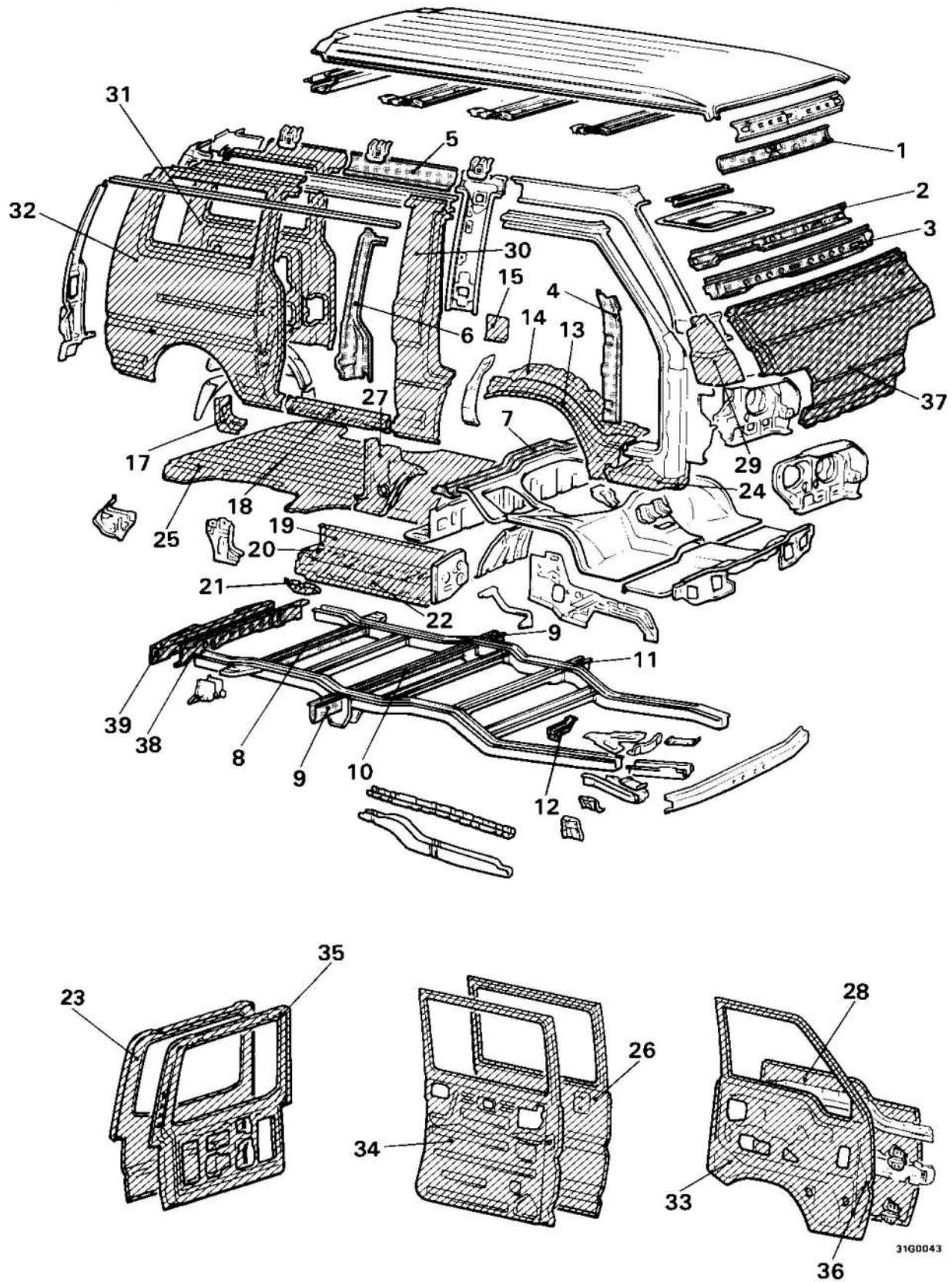
\* : Vehicles for Europe only

**SPECIAL STEEL PANELS**

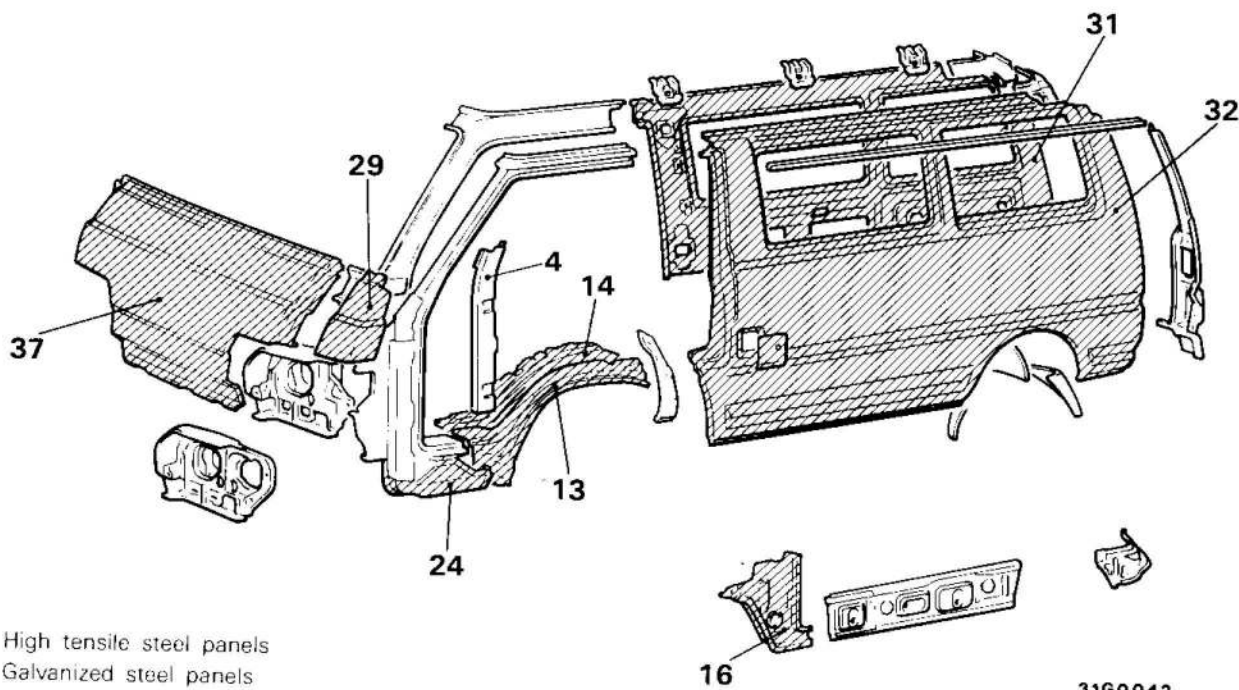
Special steel panels are used in the illustrated positions.

**VEHICLES FOR AUSTRALIA**

Applicable built up to June 1992



31G0043



31G0042

□ : High tensile steel panels  
 ▨ : Galvanized steel panels

No.	Part name	Material*	No.	Part name	Material*
1.	Front roof rail, inner		20.	Rear step panel	
2.	Front end upper crossmember		21.	Door check bracket	
3.	Upper crossmember cover		22.	Rear door rail support	SGACC
4.	Front door hinge reinforcement		23.	Tailgate, outer	
5.	Side roof rail, inner		24.	Front step panel	
6.	C-pillar reinforcement	SPRC35	25.	Rear floor panel	
7.	Upright floor crossmember		26.	Rear door, outer	SGACD
8.	Crossmember No. 7 (long body vehicles)		★27.	Center pillar, inner, lower (R.H.)	
9.	Rear brace (long body vehicles)		28.	Front door, outer	
10.	Crossmember No. 4		29.	Front corner panel	
11.	Front brace		30.	B-pillar, outer	
12.	Front floor brace	SAPH38	31.	Quarter panel, inner	
13.	Front side sill, outer		32.	Quarter panel, outer	SGACE
14.	Front wheelhouse, inner		33.	Front door, inner	
15.	Fuel filler lid		★34.	Rear door, inner	
★16.	Center pillar, inner, lower (L.H.)	SGACC	★35.	Tailgate, inner	
17.	Rear door stopper reinforcement, lower rear		36.	Front door, inner (B)	SGAHC
18.	Rear floor side sill, outer		37.	Front panel	
★19.	Rear side sill, inner		38.	Rear end crossmember, inner	SGAC35R
			39.	Rear end crossmember, outer	

\*SGACC — Galvannealed steel plate  
 SGACD — Galvannealed steel plate  
 SGACE — Galvannealed steel plate

SGAC35R: Phosphorus added (also galvannealed)

SPRC: Phosphorus added

SAPH: High tensile steel plate with solution strengthening using carbon.

The number in the material codes indicate the tensile strength (kg/mm<sup>2</sup>).

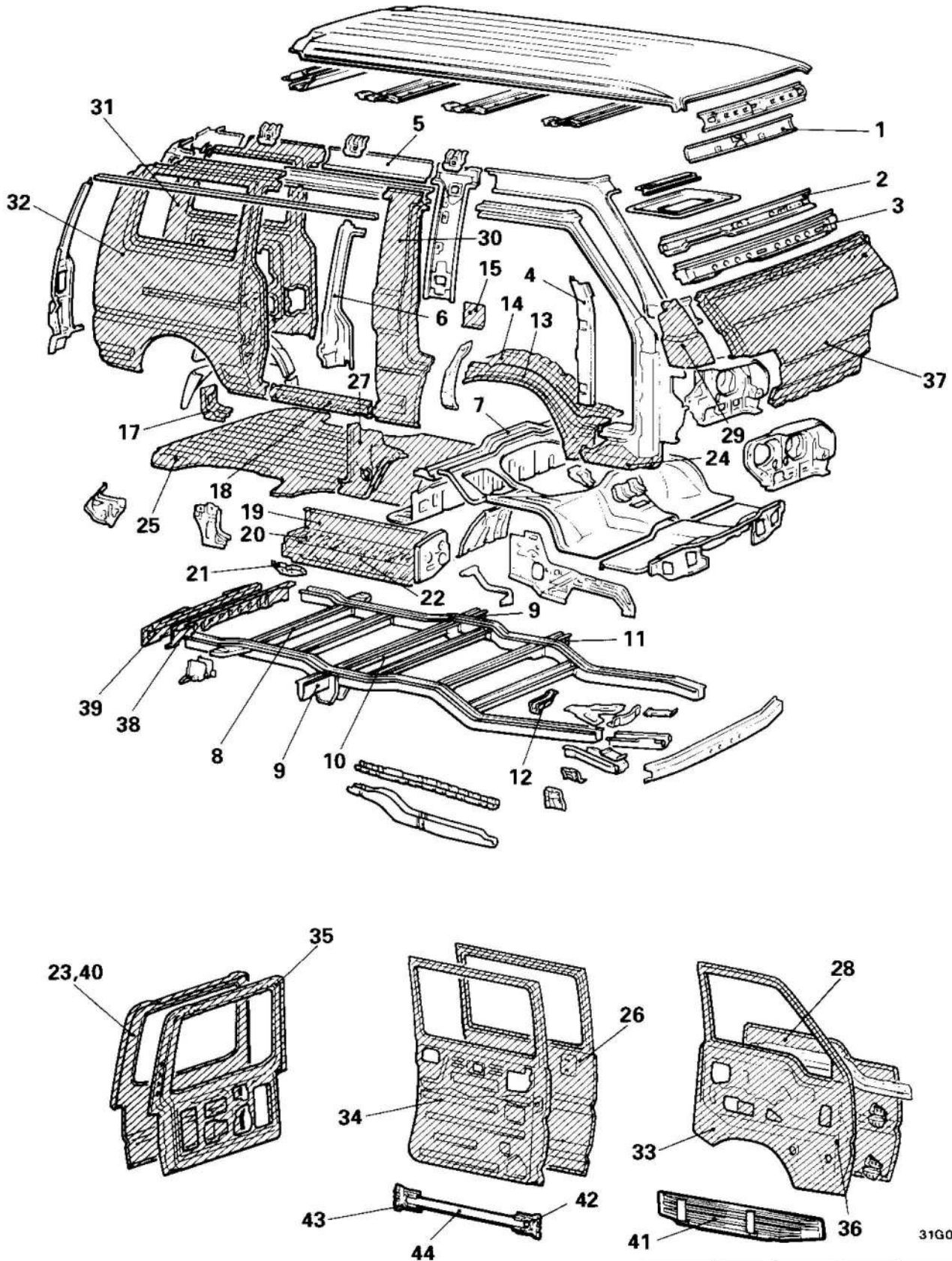
★: Vehicles for Europe only

**SPECIAL STEEL PANELS**

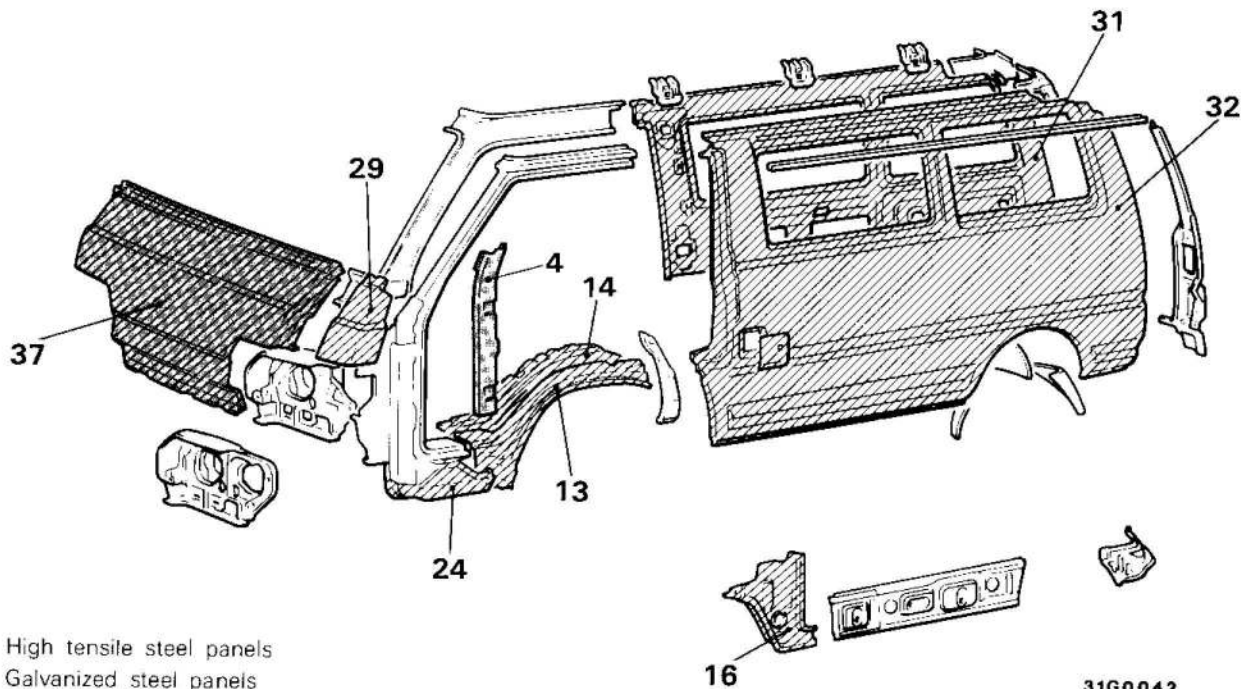
Special steel panels are used in the illustrated positions.



**VEHICLES FOR EUROPE**

Applicable from '92 models



31G0077



 : High tensile steel panels  
 : Galvanized steel panels

No.	Part name	Material*	No.	Part name	Material*	
1.	Front roof rail, inner	SPRC35	25.	Rear floor panel	SGACD	
2.	Front end upper crossmember		26.	Rear door, outer		
3.	Upper crossmember cover		27.	Center pillar, inner, lower (R.H.)		
4.	Front door hinge reinforcement		28.	Front door, outer		
5.	Side roof rail, inner		29.	Front corner panel		SGACE
6.	C-pillar reinforcement		30.	B-pillar, outer		
7.	Upright floor crossmember		31.	Quarter panel, inner		
8.	Crossmember No. 7 (long body vehicles)		32.	Quarter panel, outer		
9.	Rear brace (long body vehicles)		33.	Front door, inner		
10.	Crossmember No. 4		34.	Rear door, inner		
11.	Front brace		35.	Tailgate, inner		
12.	Front floor brace	SAPH38	36.	Front door, inner (B)	SGAHC	
13.	Front side sill, outer	SGACC	37.	Front panel	SGAC35R	
14.	Front wheelhouse, inner		38.	Rear end crossmember, inner		
15.	Fuel filler lid		39.	Rear end crossmember, outer		
16.	Center pillar, inner, lower (L.H.)		40.	Tailgate, outer (standard roof)		
17.	Rear door stopper reinforcement, lower, rear		41.	Front side door beam	APFH80	
18.	Rear floor side sill, outer		42.	Front bracket		
19.	Rear side sill, inner		43.	Rear bracket		
20.	Rear step panel		STAM80	44.	Bar	
21.	Door check bracket					
22.	Rear door rail support					
23.	Tailgate, outer (high roof)					
24.	Front step panel					

\*SGACC }  
 SGACD } Galvannealed steel plate  
 SGACE }  
 SGAC35R : Phosphorus added (also galvannealed)  
 SPRC : Phosphorus added  
 The numbers in the material codes indicate the tensile strength. (kg/mm<sup>2</sup>)

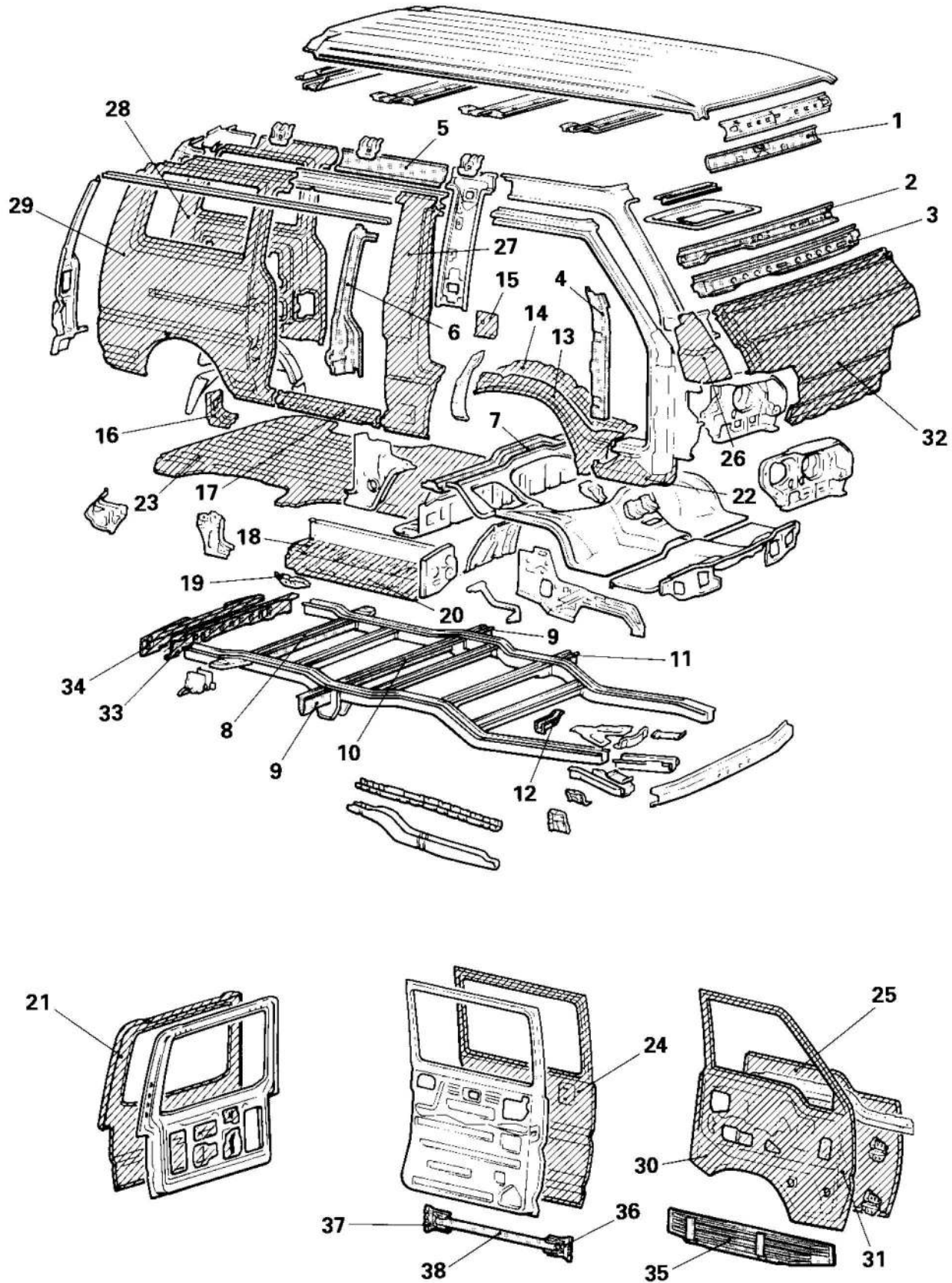
SAPH: Solution-strengthened high tensile steel plate with plate with carbon added.  
 APFH: Solution-strengthened high tensile steel plate with carbon, manganese and silicon added.  
 STAM: High tensile steel pipe solution-strengthened with carbon, manganese and molybdenum and precipitation-strengthened with niobium.

**SPECIAL STEEL PANELS**

Special steel panels are used in the illustrated positions.

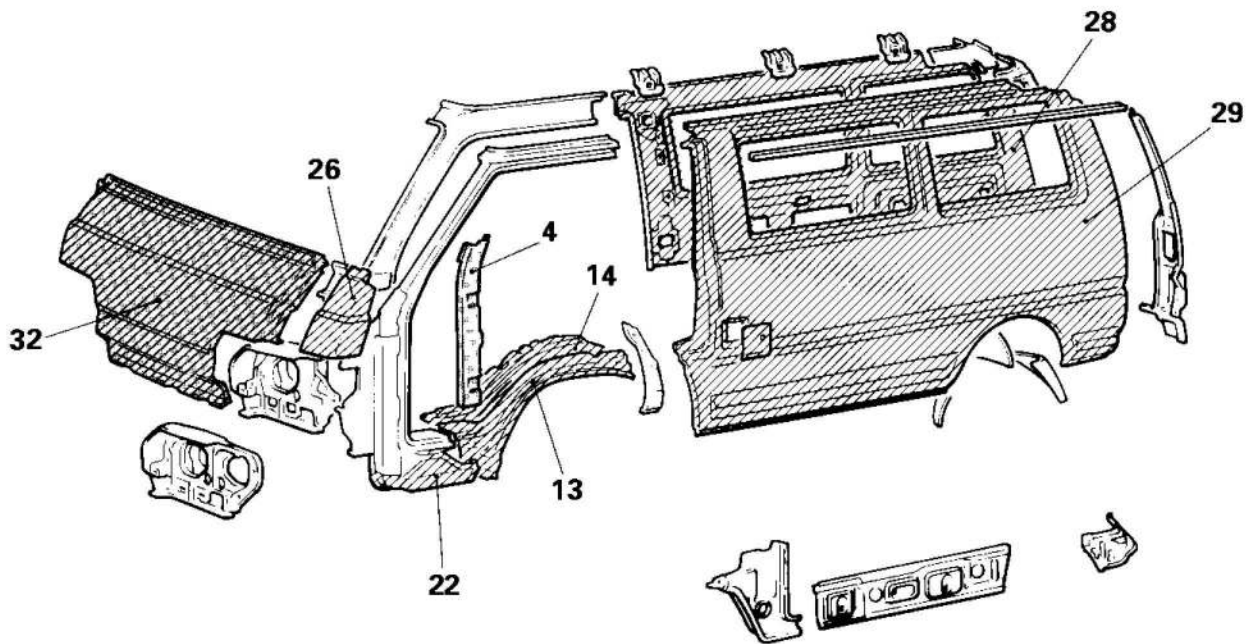
**VEHICLES FOR AUSTRALIA**

Applicable built from July 1992



31G0079





31G0078

▨ : High tensile steel panels  
 ▩ : Galvanized steel panels

No.	Part name	Material*	No.	Part name	Material*		
1.	Front roof rail, inner	SPRC35	23.	Rear floor panel	SGACC		
2.	Front end upper crossmember		24.	Rear door, outer		SGACD	
3.	Upper crossmember cover		25.	Front door, outer			
4.	Front door hinge reinforcement		26.	Front corner panel			
5.	Side roof rail, inner		27.	B-pillar, outer		SGACE	
6.	C-pillar reinforcement		28.	Quarter panel, inner			
7.	Upright floor crossmember		29.	Quarter panel, outer			
8.	Crossmember No. 7 (long body vehicles)			30.		Front door, inner	
9.	Rear brace (long body vehicles)			31.		Front door, inner (B)	SGAHC
10.	Crossmember No. 4			32.		Front panel	SGAC35R
11.	Front brace			33.		Rear end crossmember, inner	
12.	Front floor brace	SAPH38	34.	Rear end crossmember, outer			
13.	Front side sill, outer	SGACC	35.	Front side door beam	APFH 80		
14.	Front wheelhouse, inner		36.	Front bracket			
15.	Fuel filler lid		37.	Rear bracket			
16.	Rear door stopper reinforcement, lower rear		38.	Bar	STAM 80		
17.	Rear floor sill, outer						
18.	Rear step panel						
19.	Door check bracket						
20.	Rear door rail support						
21.	Tailgate, outer						
22.	Front step panel						

\*SGACC — Galvannealed steel plate  
 SGACD — Galvannealed steel plate  
 SGACE — Galvannealed steel plate

SGAC35R: Phosphorus added (also galvannealed)  
 SPRC: Phosphorus added  
 SAPH: High tensile steel plate with solution strengthening using carbon.  
 The number in the material codes indicate the tensile strength (kg/mm<sup>2</sup>).

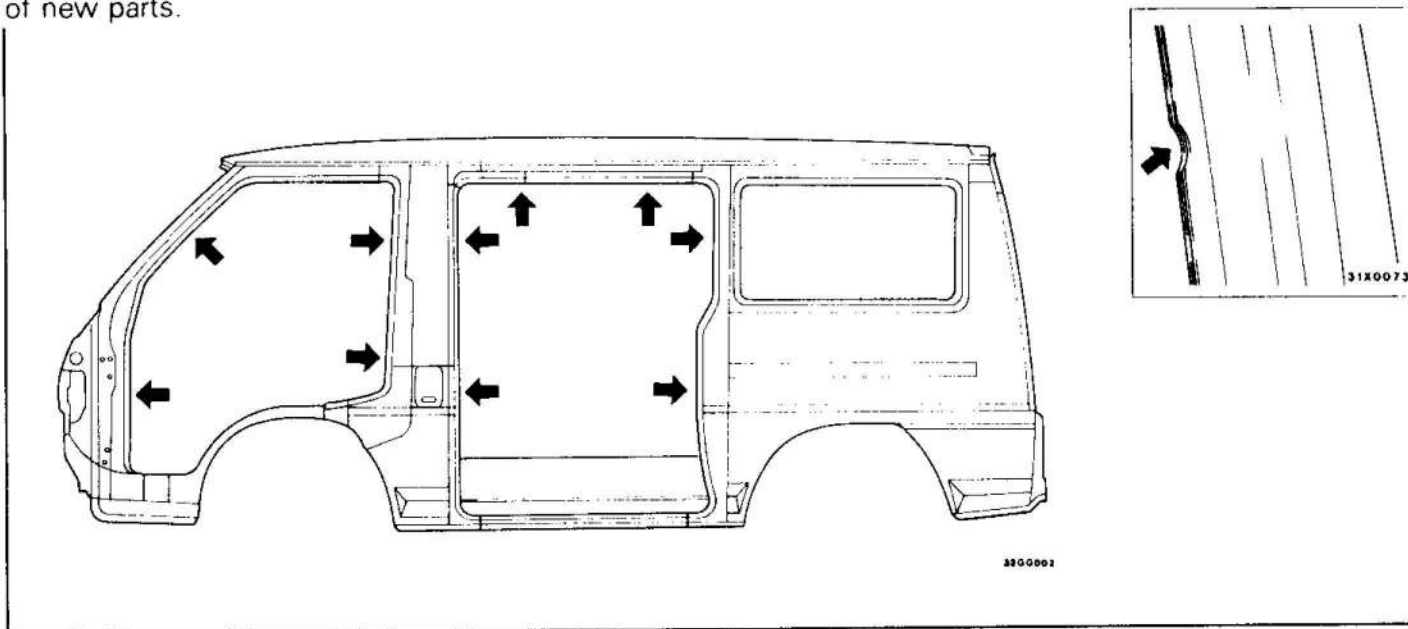
APFH: Solution-strengthened high tensile steel plate with carbon, manganese and silicon added.  
 STAM: High tensile steel pipe solution-strengthened with carbon, manganese and molybdenum and precipitation strengthened with niobium.

NOTES

**MAINTENANCE, SERVICEABILITY**

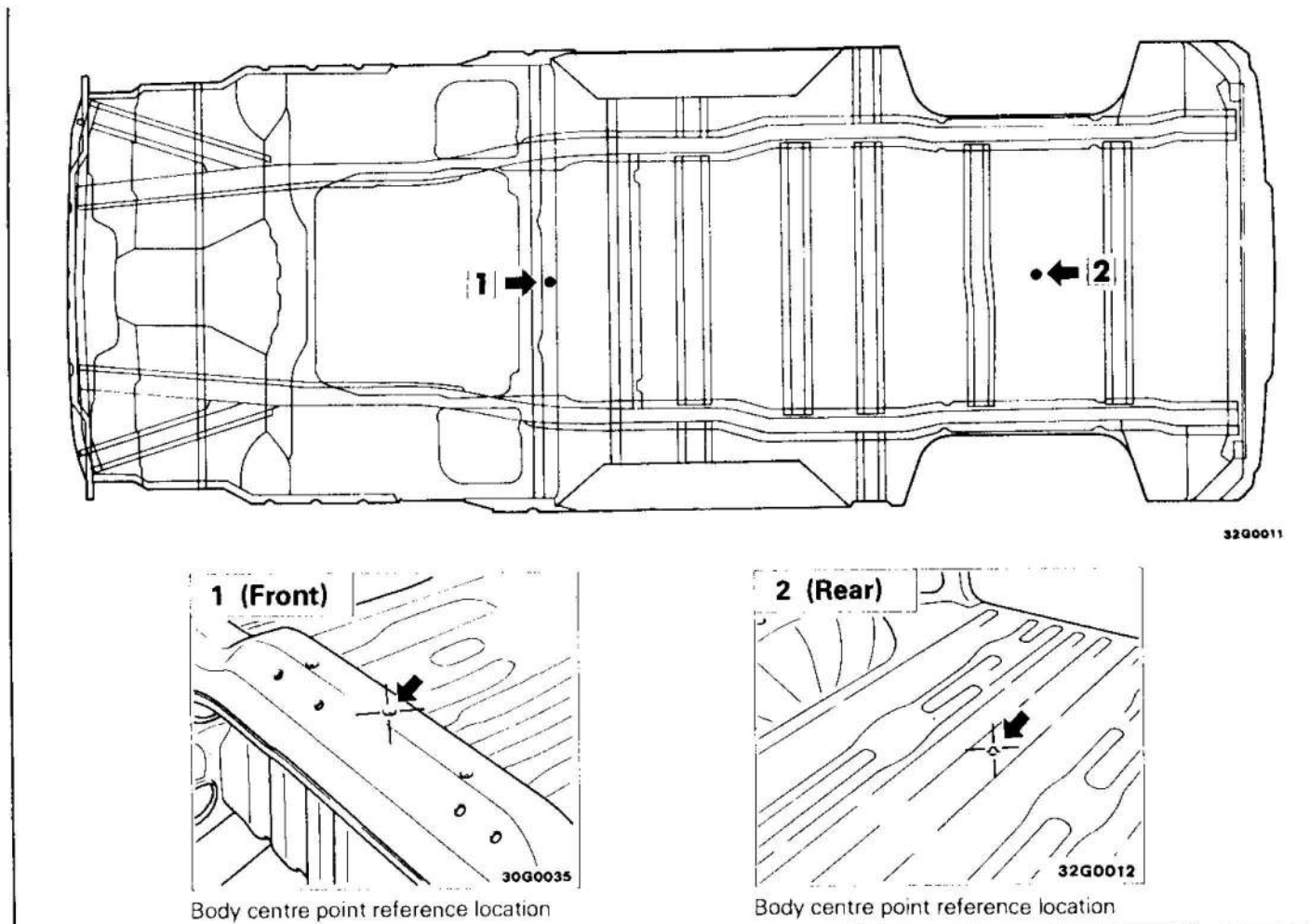
**MATING MARKS FOR PANEL ASSEMBLY**

Notches are provided in the door openings for use in aligning panel positions, thus facilitating the assembly of new parts.



**BODY CENTRE POINTS**

Body centre points are provided at the following locations, which serve as reference points for measurements at replacement of panels.

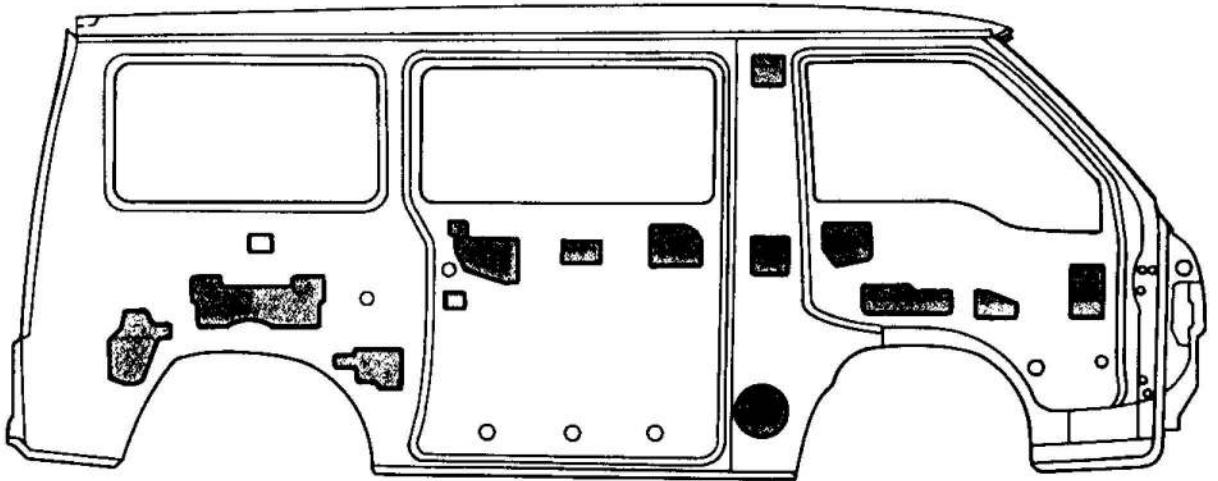




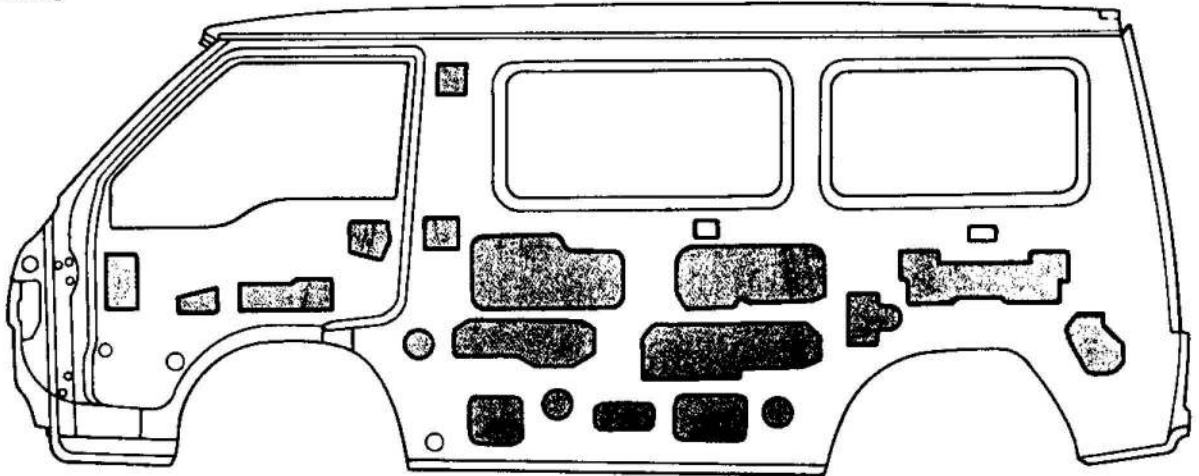
**ACCESS HOLES**

Access holes are provided in inner panels including doors and quarter panels to facilitate correction of outer panel sheet metals.

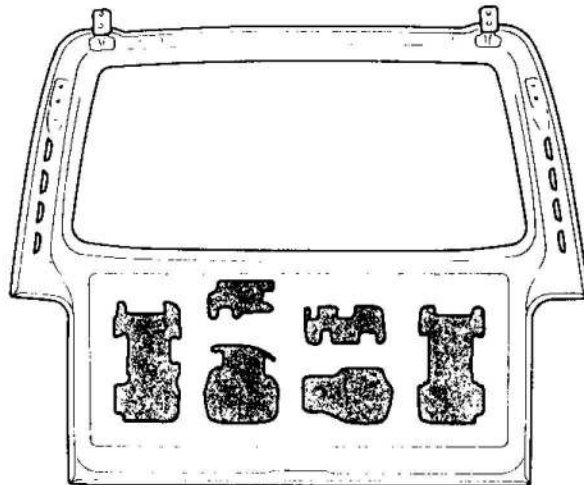
**Standard body vehicles  
Five doors**



**Four doors**




30G0071

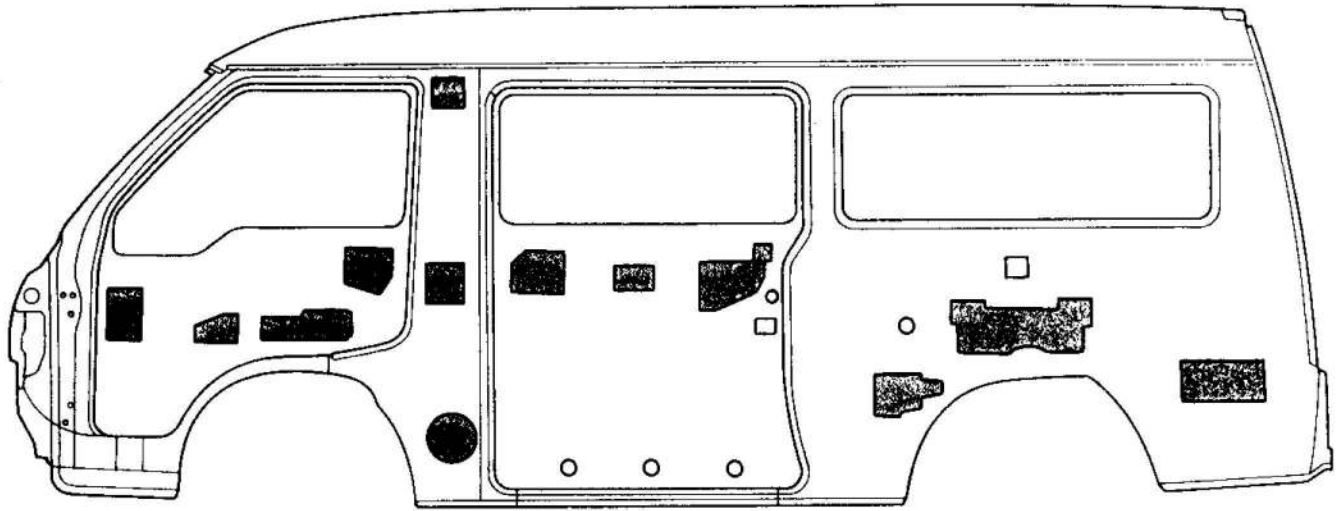


**Tailgate**

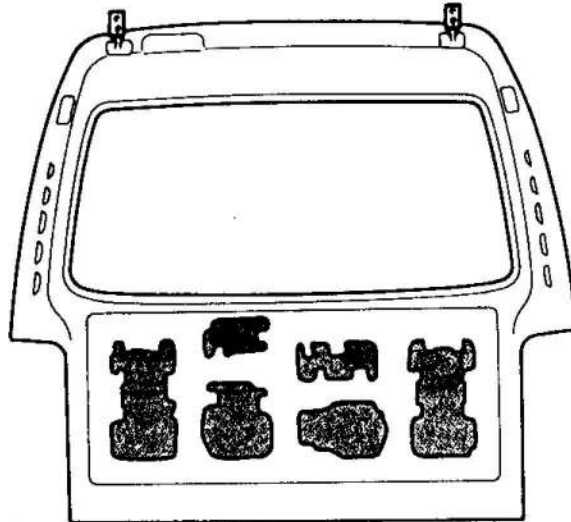
30G0048

 : Access holes

Long body vehicles



30G0104



Tailgate

32G0030

■ : Access holes

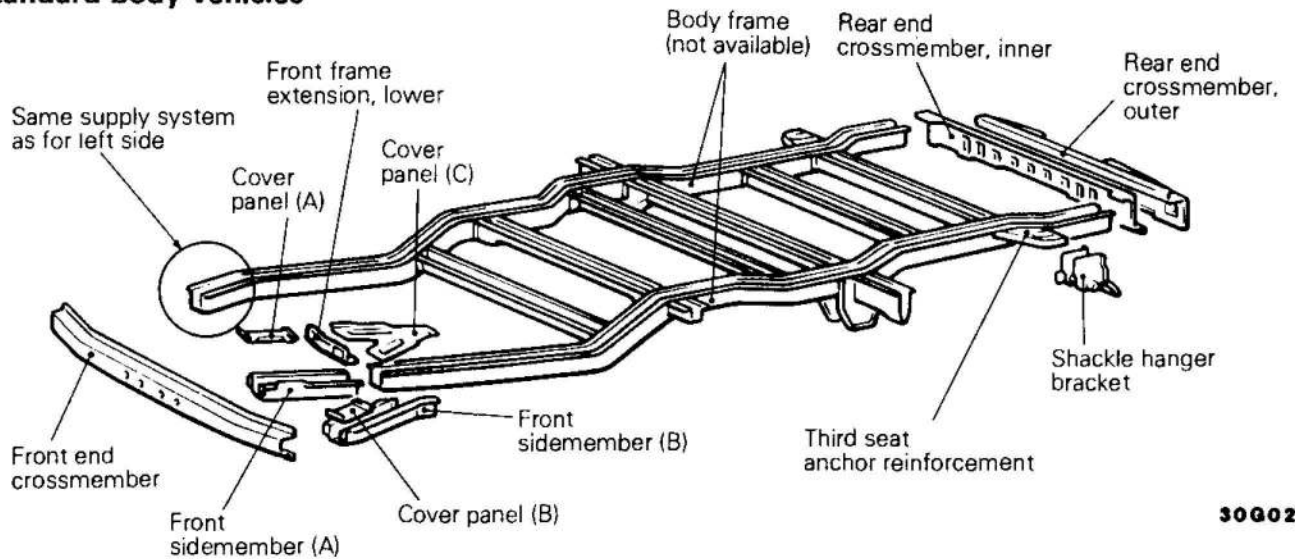
**BODY FRAME (SIDEMEMBER)**

For the frame components of the front and rear end parts, which are frequently damaged, replacement parts are supplied as individual components. The body frame itself, however, is a non-supply item.

• Separate-piece replacement

- |                             |  |
|-----------------------------|--|
| Front end crossmember       | Rear end crossmember, inner  |
| Front sidemember (A)        | Shackle hanger bracket   |
| Front sidemember (B)        | Third seat anchor reinforcement<br>(standard body vehicles-Mini-bus) |
| Cover panel (A)             | Rear brace (long body vehicles)                                      |
| Cover panel (B)             | Front frame extension, lower<br>(vehicles for Europe and Australia)  |
| Cover panel (C)             |  |
| Rear end crossmember, outer |  |

**Standard body vehicles**

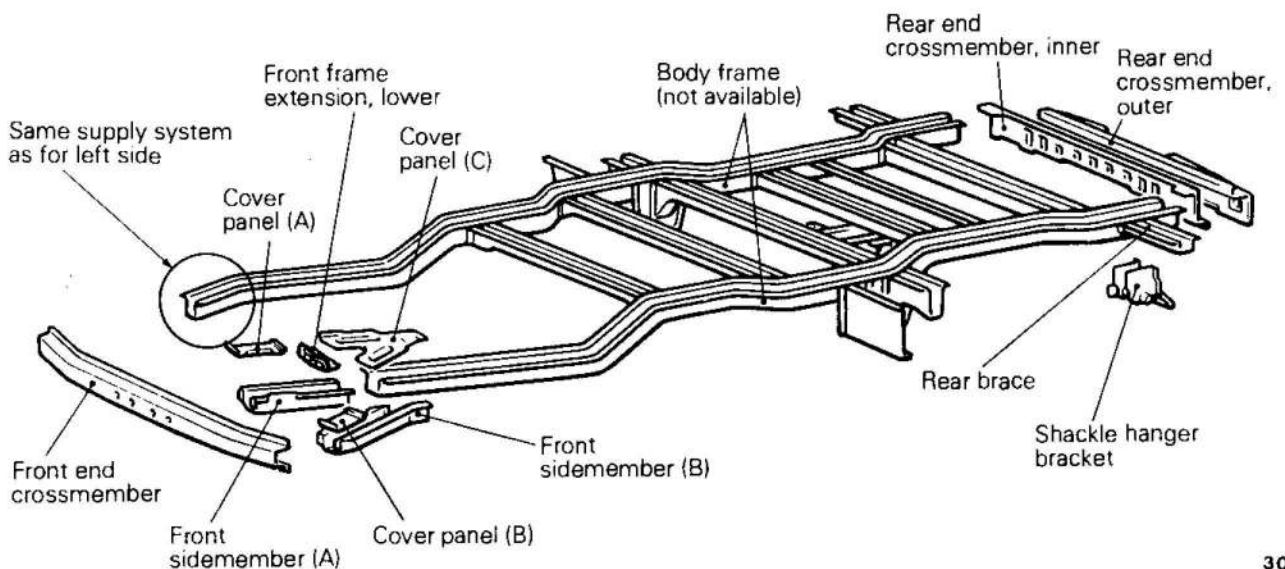


30G0225

**NOTE**

The 4WD front sidemember (lower) outer and inner panels are also non-supply parts.

**Long body vehicles**

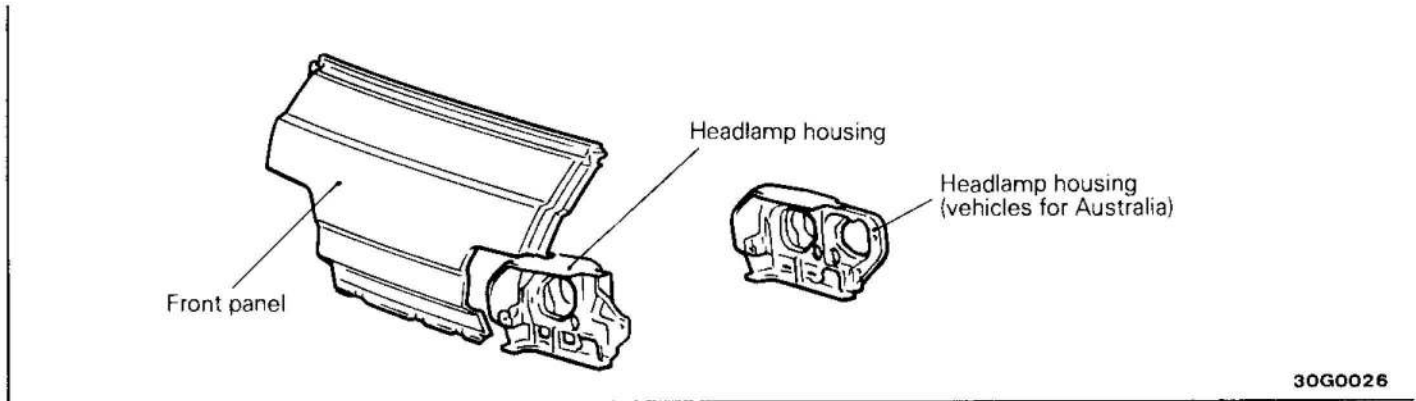


30G0092

**FRONT PANEL**

Replacement parts are available in two different configurations: as an assembly or in separate pieces.

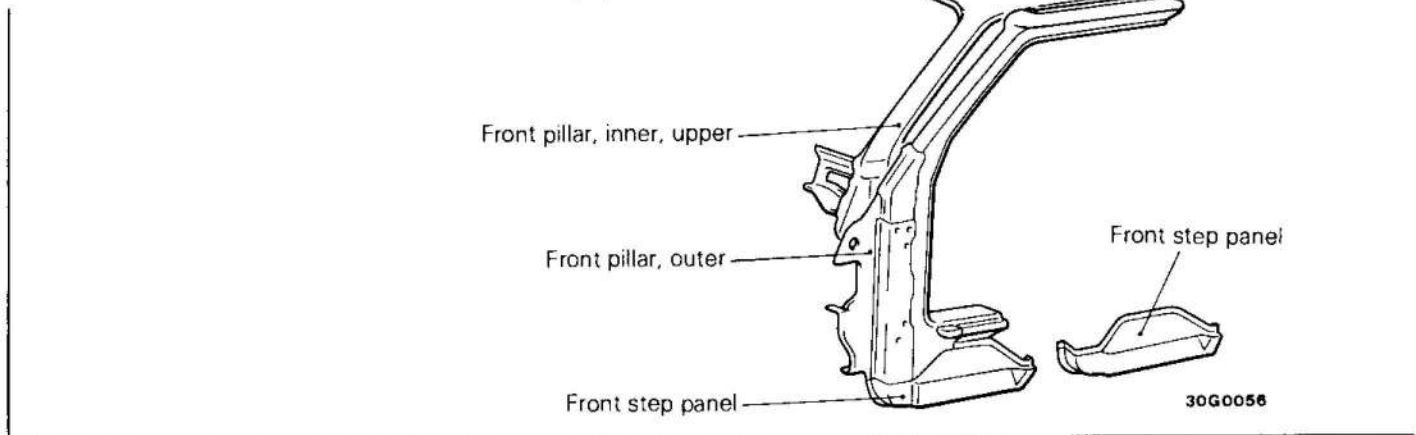
- Assembly replacement ..... Front panel and headlamp housing
- Separate-piece replacement ... Headlamp housing



**FRONT PILLAR**

Replacement parts are available in two different configurations: as an assembly or in separate pieces.

- Assembly replacement ..... Front pillar outer panel and front step panel
- Separate-piece replacement ... Front pillar, inner, upper  
Front step panel



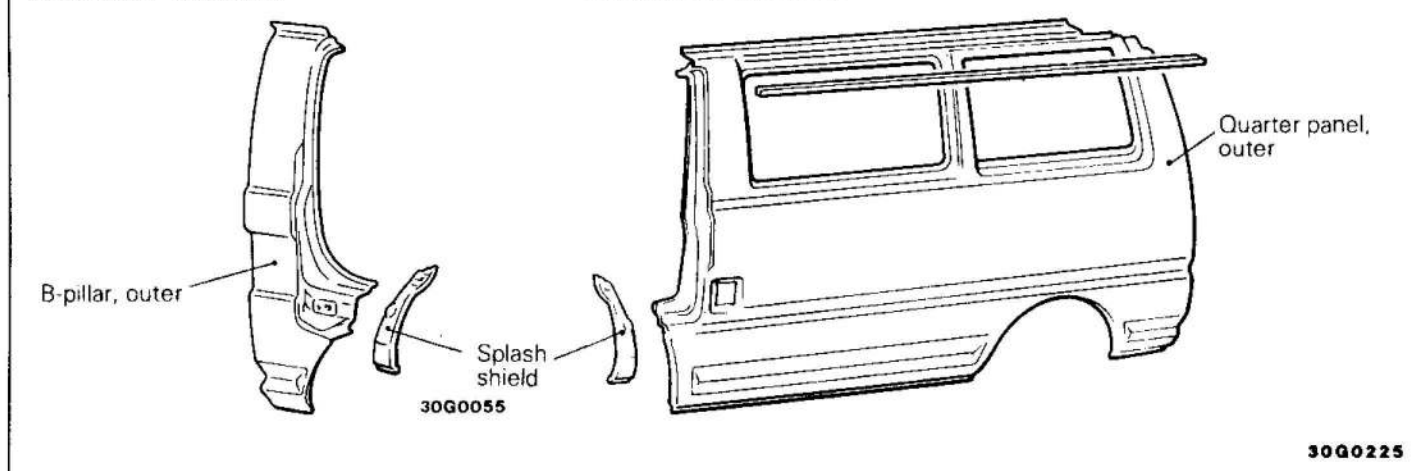
**SPLASH SHIELD**

The system for supply of the splash shield has been established as follows:

- Five door vehicles ..... Supplied as an assembly consisting of the B-pillar outer panel and the splash shield
- Four door vehicles ..... Supplied as an individual splash shield alone

**Five door vehicles**

**Four door vehicles**

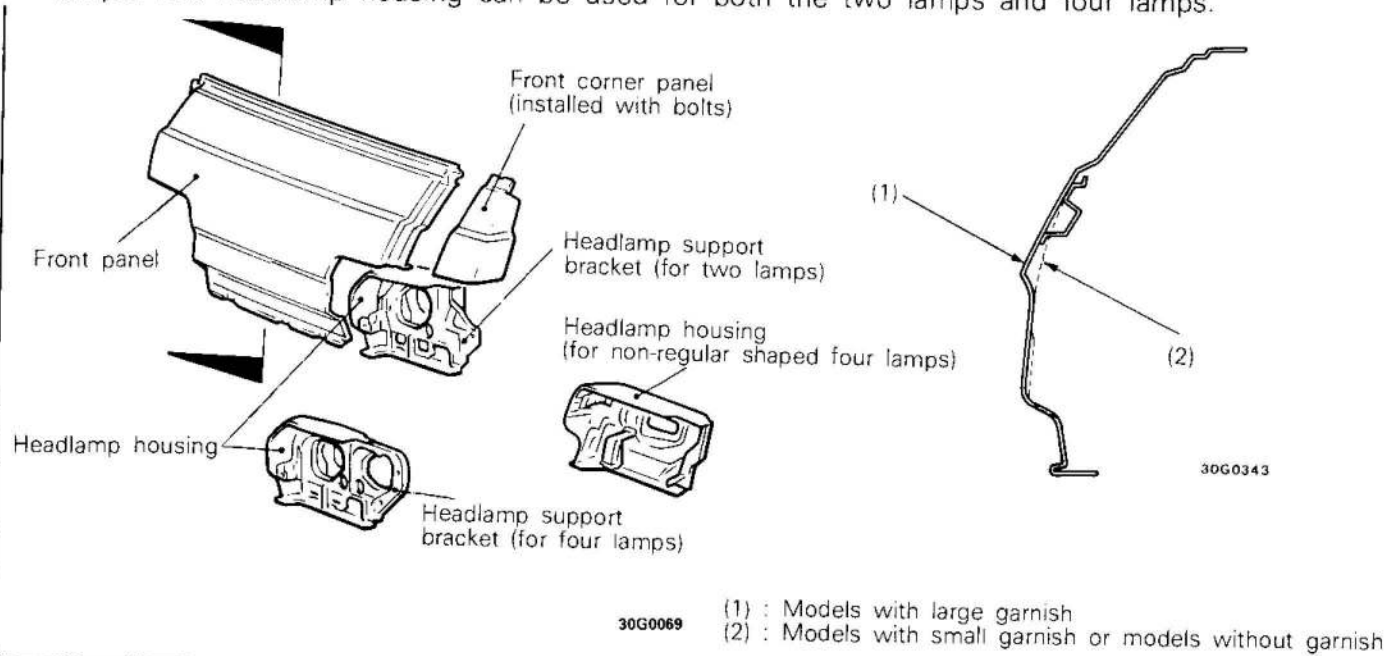




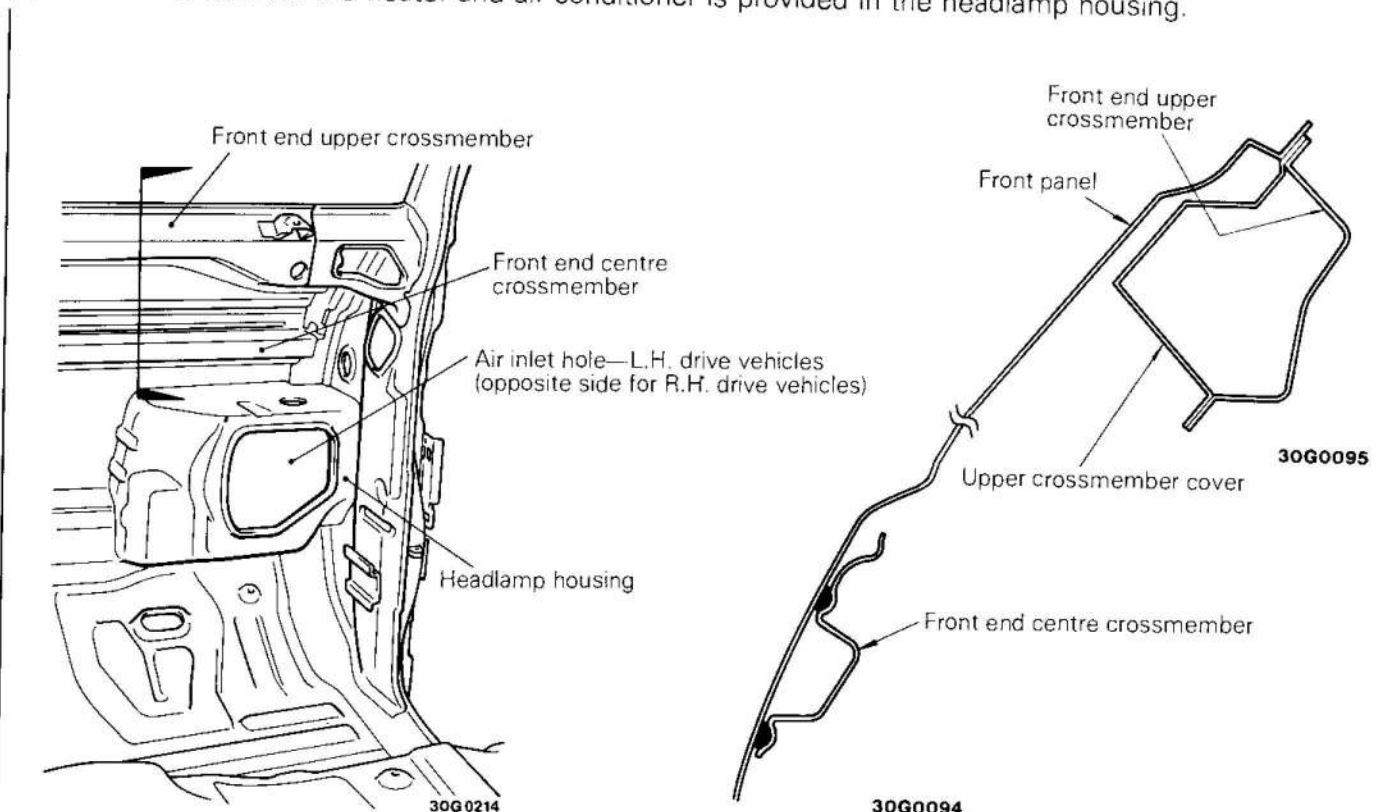
**FRONT BODY**

**FRONT PANEL**

- (1) The front corner panel that has a high frequency of replacement is attached to the body with bolts, and the front corner panel can be replaced when there is minor damage.
- (2) There are three types of headlamp assemblies; for two lamps, four lamps and non-regular shaped four lamps. The headlamp housing can be used for both the two lamps and four lamps.

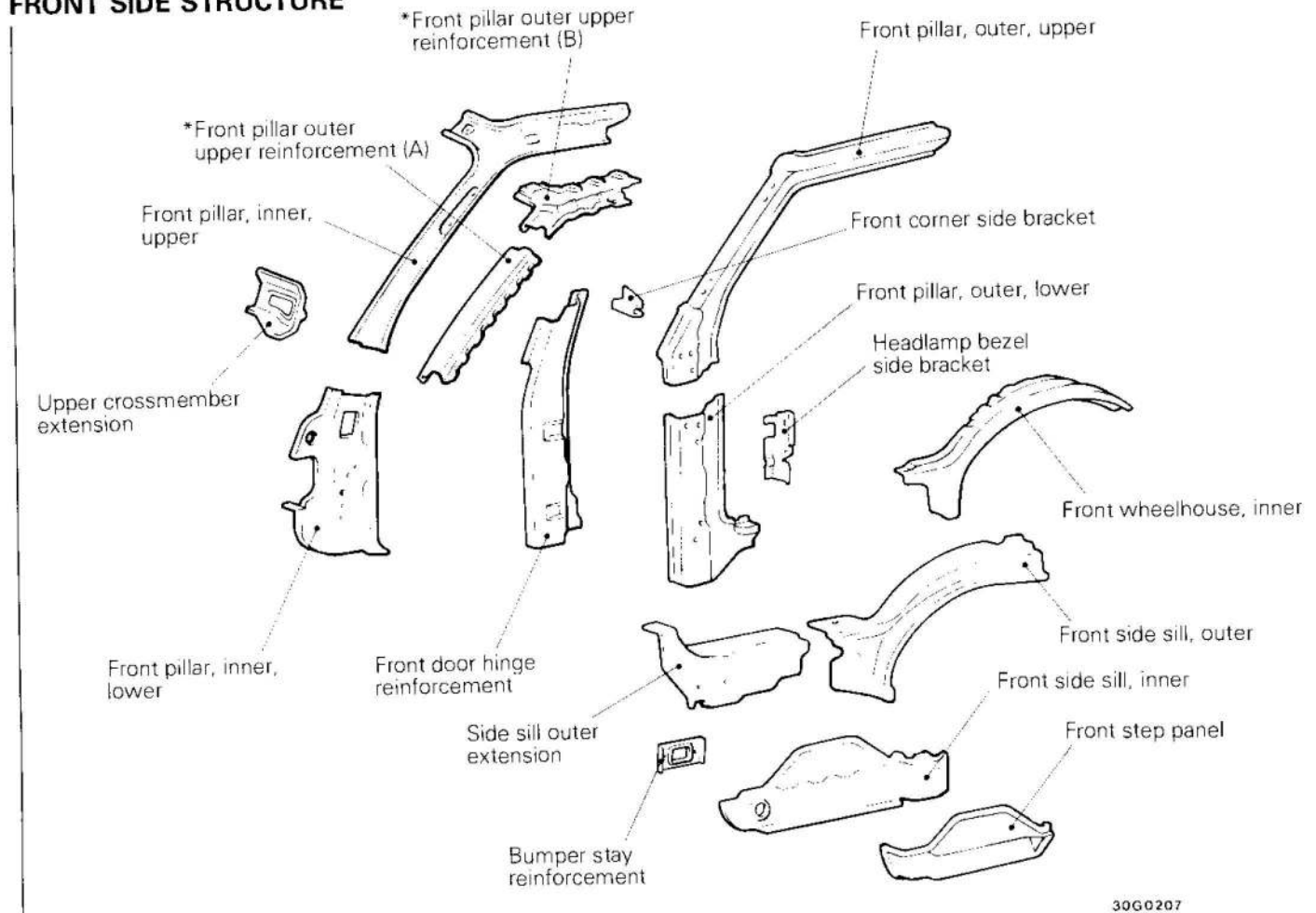


- (3) For the front panel, the front end upper crossmember is positioned at the upper part and the front end centre crossmember is positioned at the centre part, thereby increasing the rigidity of the panel together with the front end crossmember positioned at the lower part, and the left and right front pillars.
- (4) An air inlet hole for the heater and air conditioner is provided in the headlamp housing.



**SIDE BODY**

**FRONT SIDE STRUCTURE**

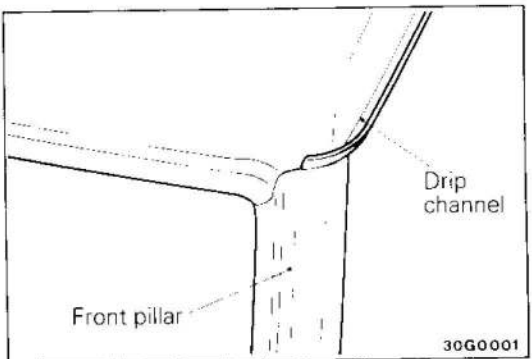


30G0207

\*Vehicles for Europe and Australia

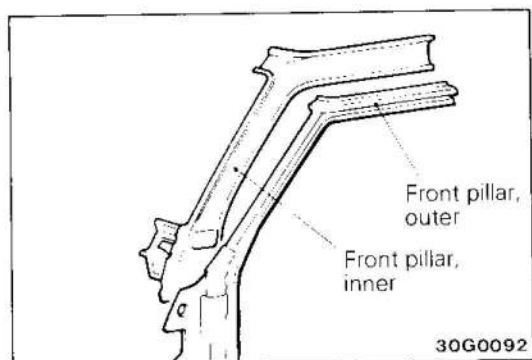
**FRONT PILLAR**

(1) The drip channel has been abolished from the front pillar, thus reducing wind noise during driving.



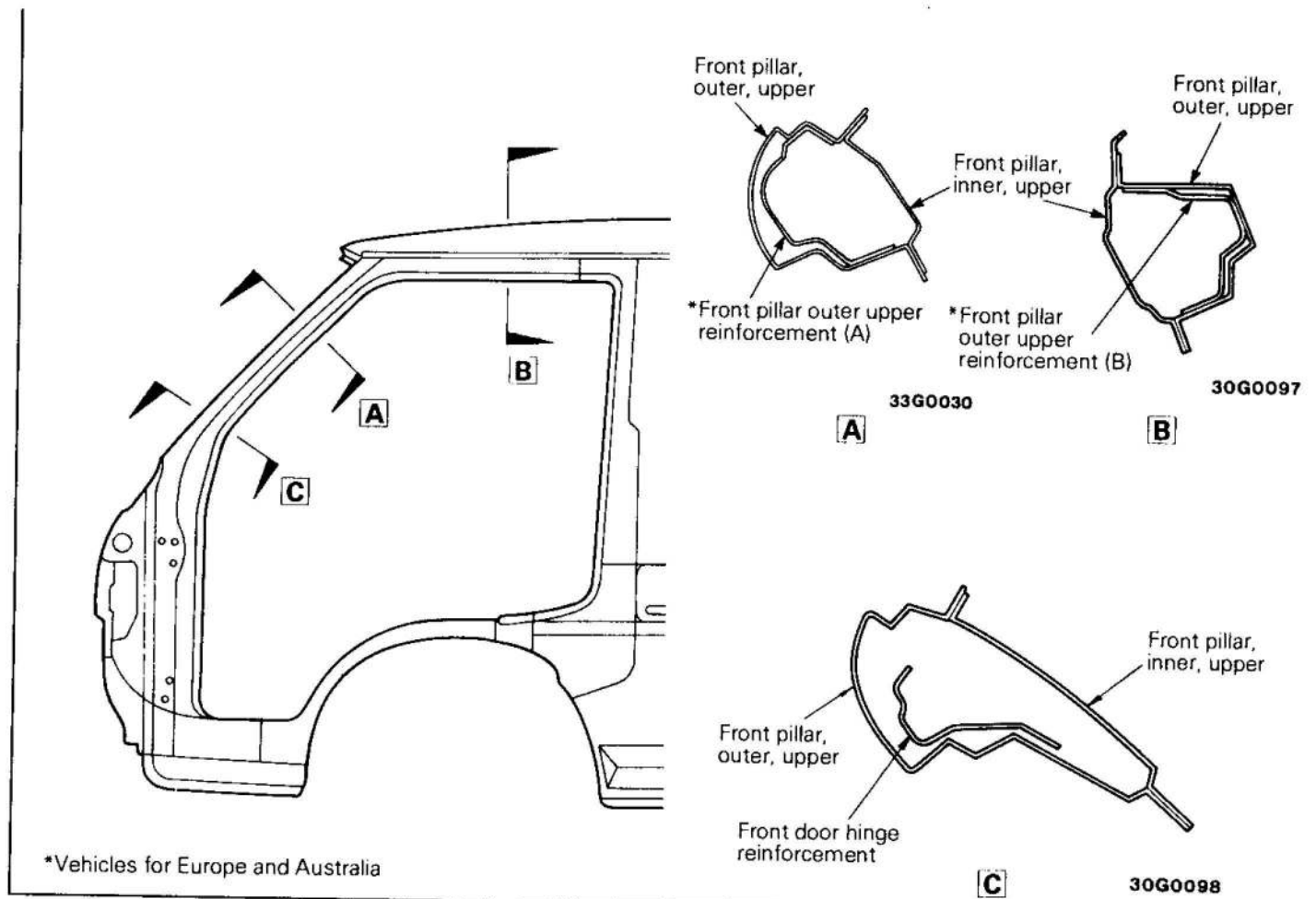
30G0001

(2) For the front pillar, the upper part is extended to the side roof rail, forming a unified pillar and thus increasing the body's torsional rigidity.



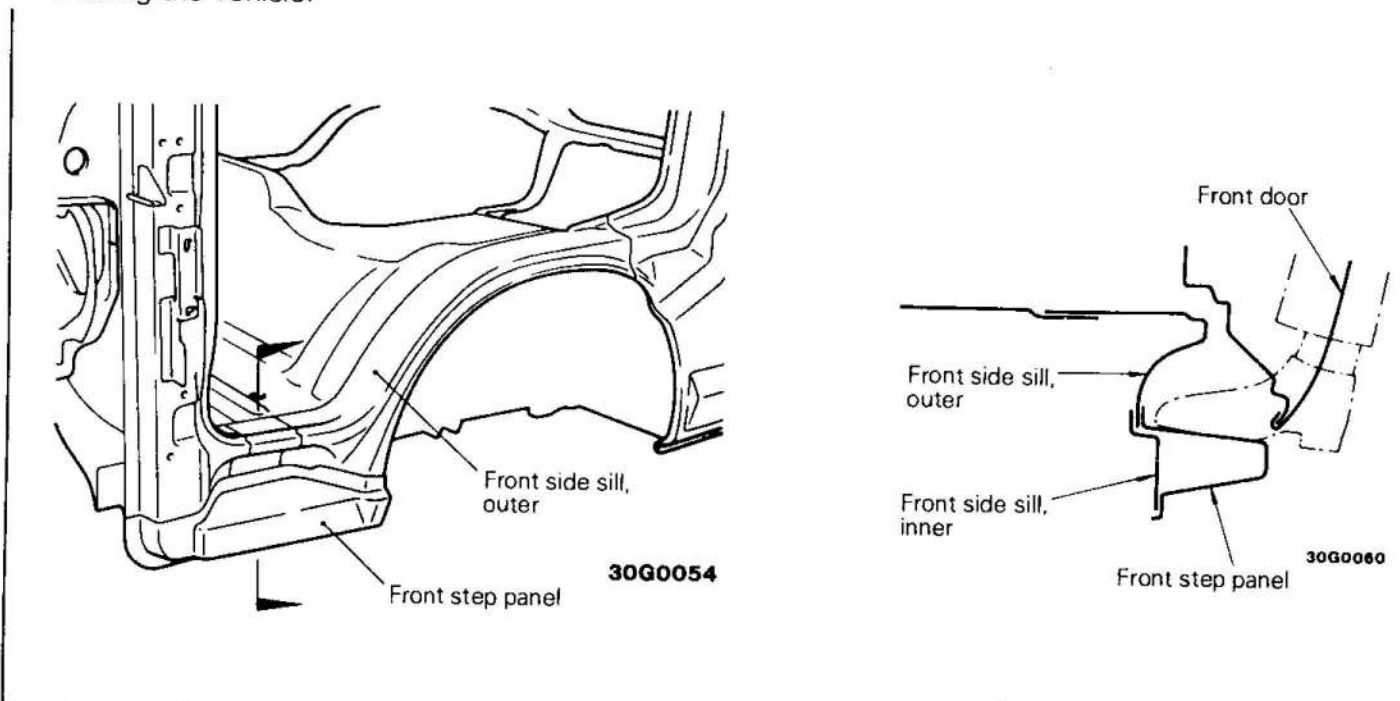
30G0092

(3) Cross-sectional views of front pillar parts

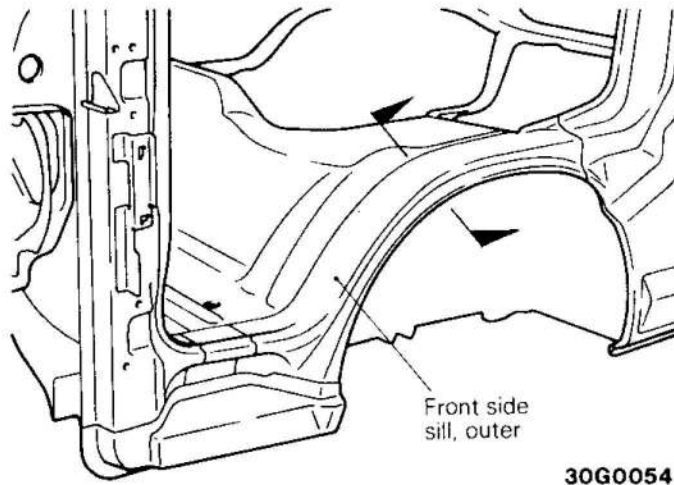


**FRONT SIDE SILL**

- (1) The front step construction has been changed to the closed cross-section shown in the figure, thus increasing rigidity and making entering and leaving the vehicle safer.
- (2) The front side sill is covered by the door so that clothing is not dirtied by mud, etc. when entering and leaving the vehicle.

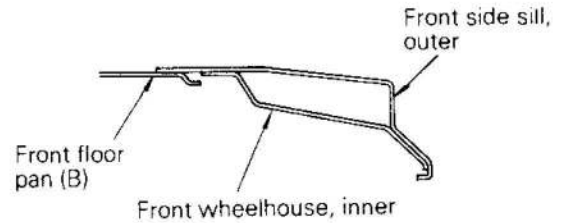


(3) For the front side sill, on vehicles for Europe and Australia, and long body vehicles, the front wheelhouse inner panel has been added at the inner side, thus forming a closed cross-section configuration and increasing the strength. For standard body vehicles for General Export, however, the front side sill is a single panel construction, thus improving the hammering out workability.



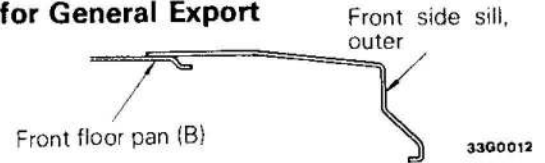
30G0054

**Vehicles for Europe and Australia, and long body vehicles**



33G0012

**Standard body vehicles for General Export**

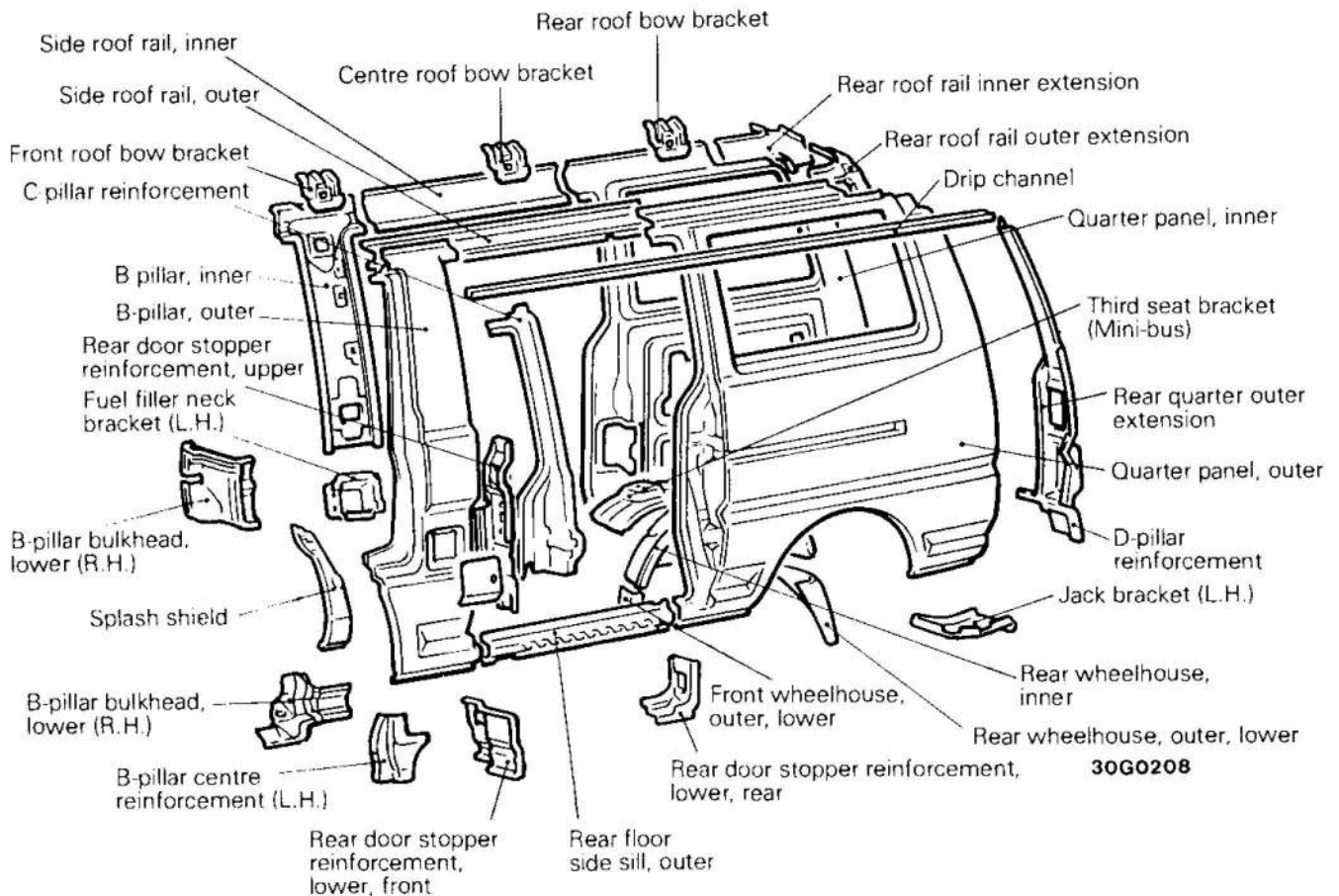


33G0012

**REAR SIDE STRUCTURE**

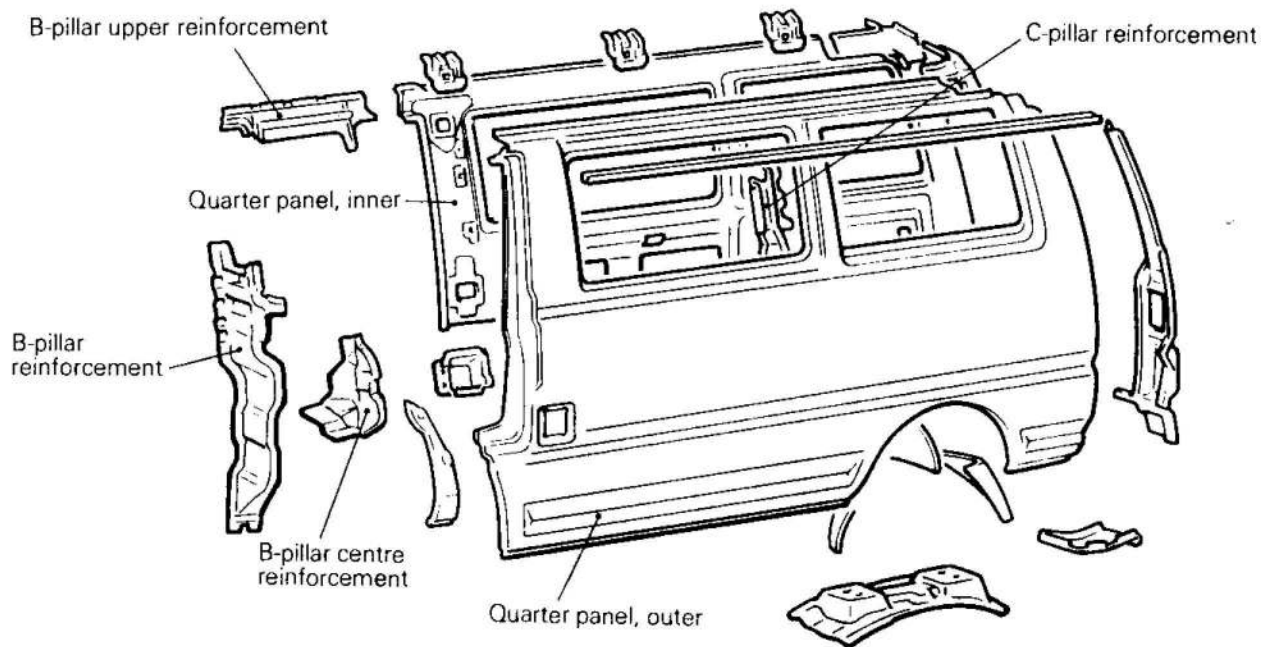
**Standard body vehicles (Mini-bus and Window van)**

**Five doors**



30G0208

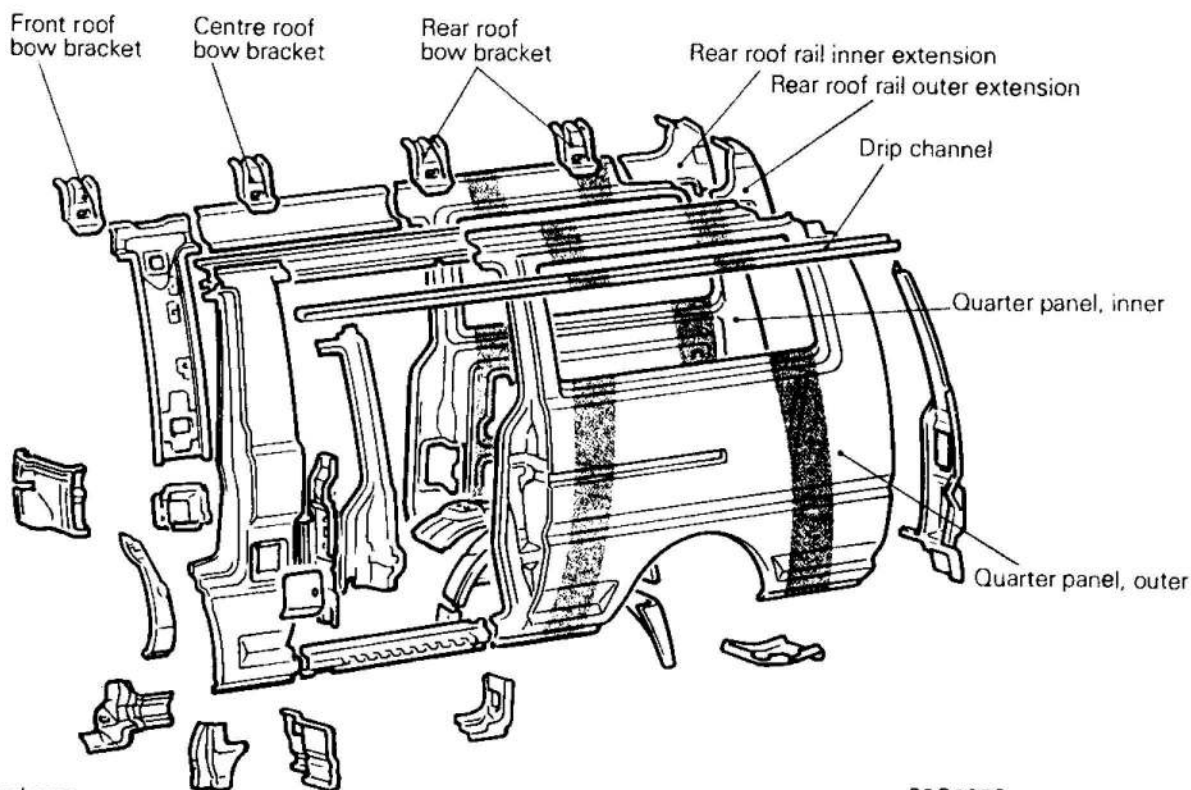
**Standard body vehicles (Mini-bus and Window van)  
Four doors**



30G0223

**Long body vehicles (Mini-bus)**

For long body vehicles, the quarter outer and inner panels have been made longer than the standard body where shown in the figure. In conjunction with this change, one rear roof bow bracket has been added.

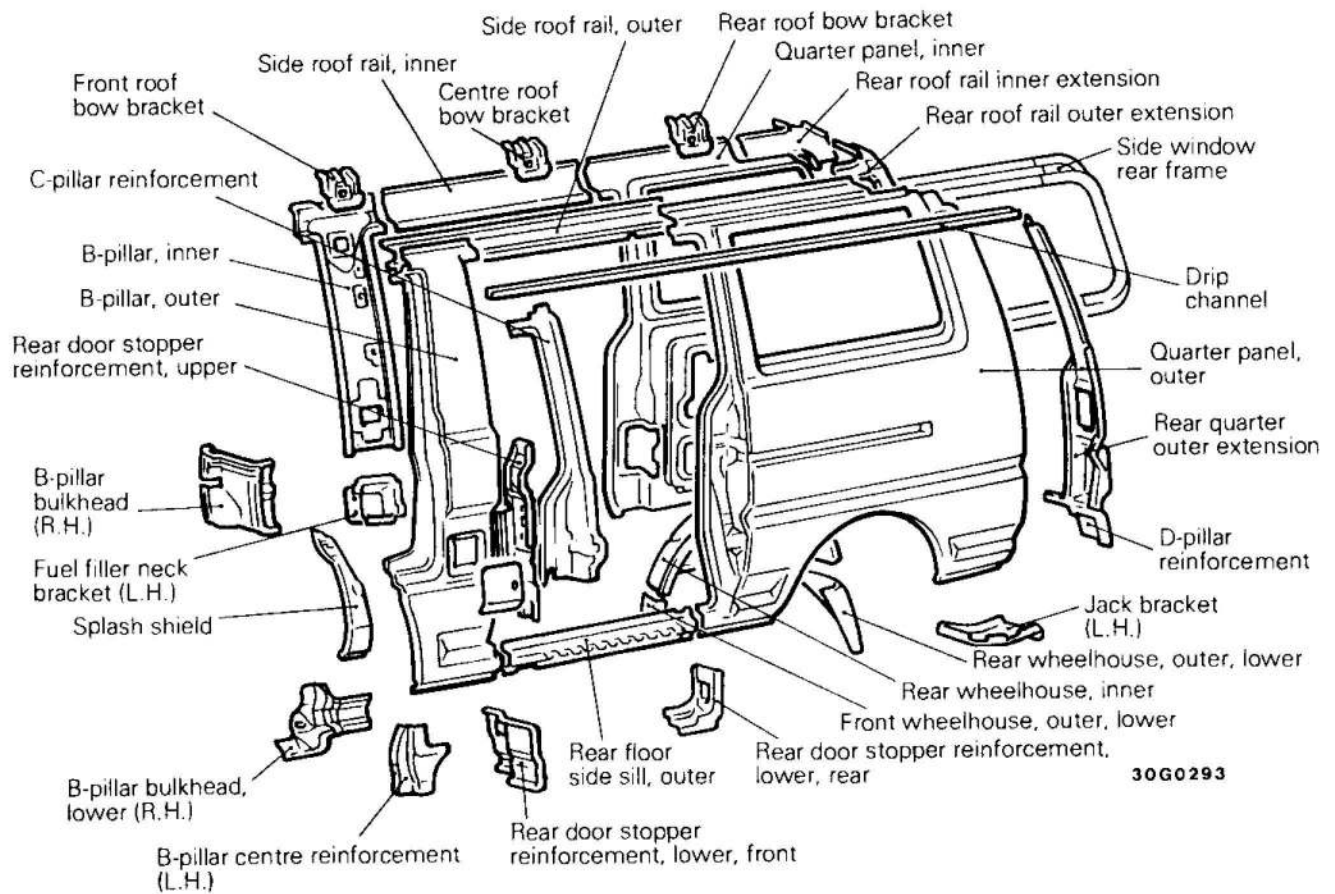


30G0209

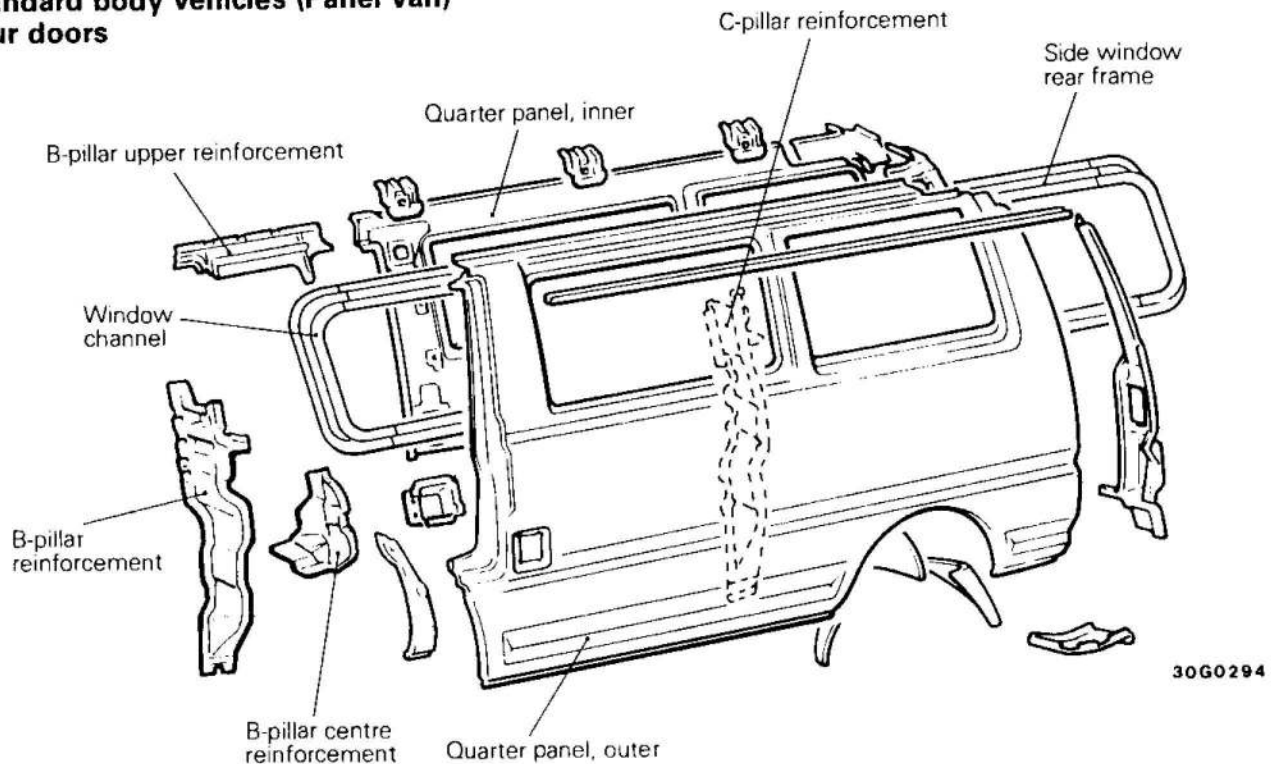
**NOTE**

For the four door vehicles and long body vehicles, only the component names of those panels which have a different configuration from those of the five door vehicles are given.

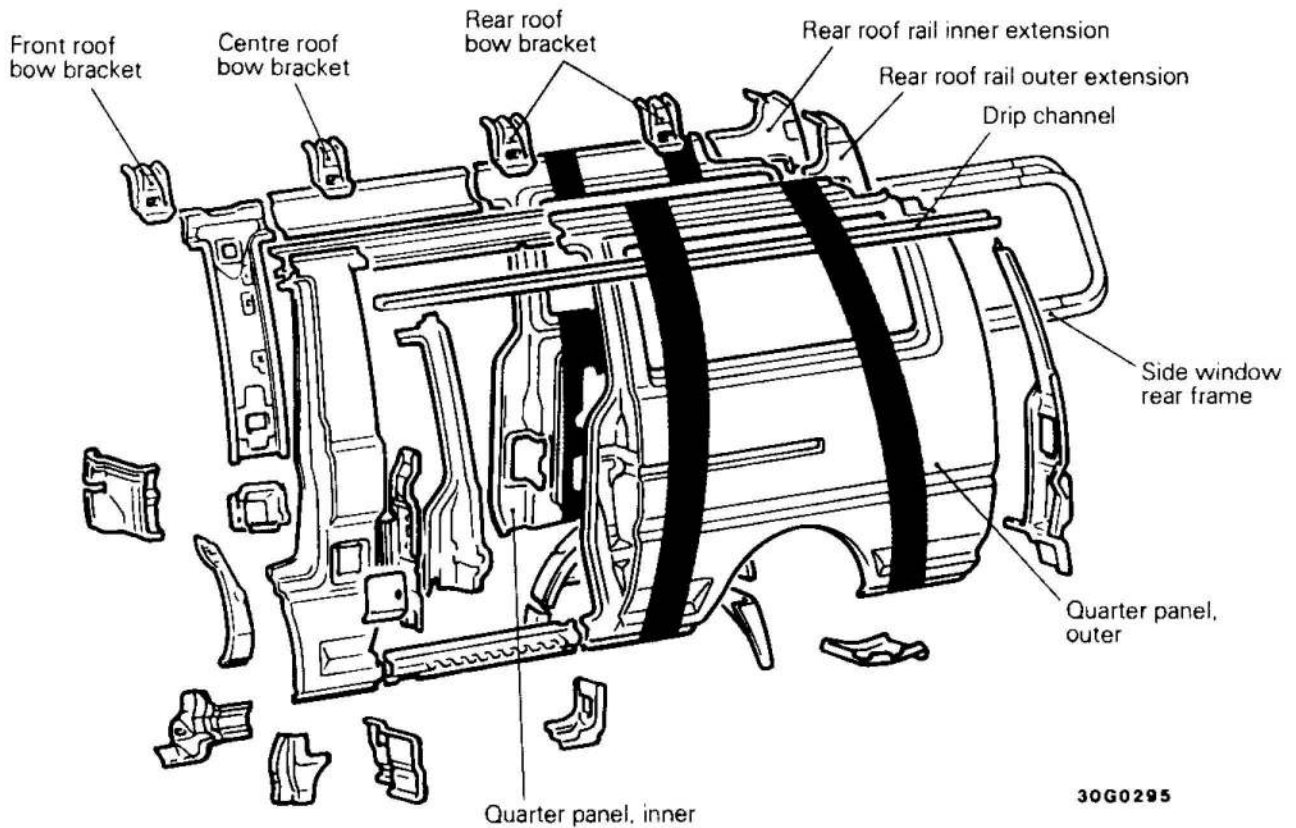
**Standard body vehicles (Panel van)  
Five doors**



**Standard body vehicles (Panel van)  
Four doors**



Long body vehicles (Panel van)



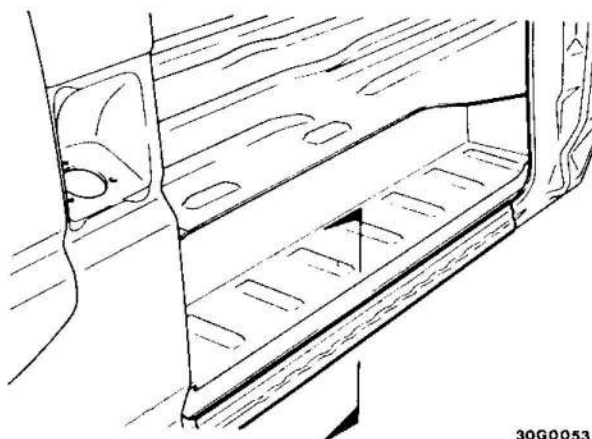
■ : Extended area

NOTE

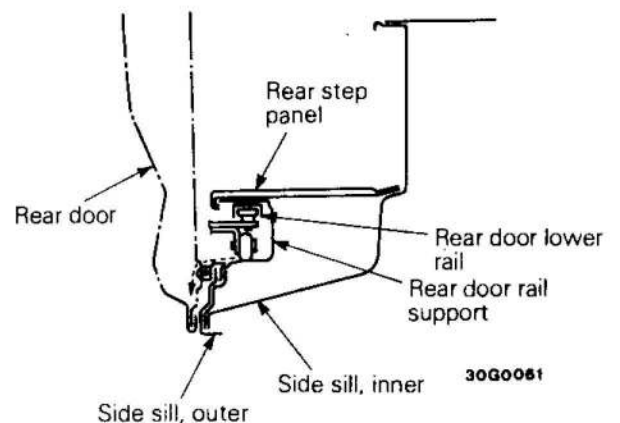
For the four door vehicles and long body vehicles, only the component names of those panels which have a different configuration from those of the five door vehicles are given.

REAR DOOR STEP

- (1) Due to the adoption of the monocoque body, the distance between the step and the ground has been reduced in order to improve the riding performance.
- (2) The flange stand piece of the rail support has been discontinued for better drainage and for improvement of corrosion resistance. Moreover, because this construction eliminates the need for the water drain hole, the intrusion of noise is also prevented.



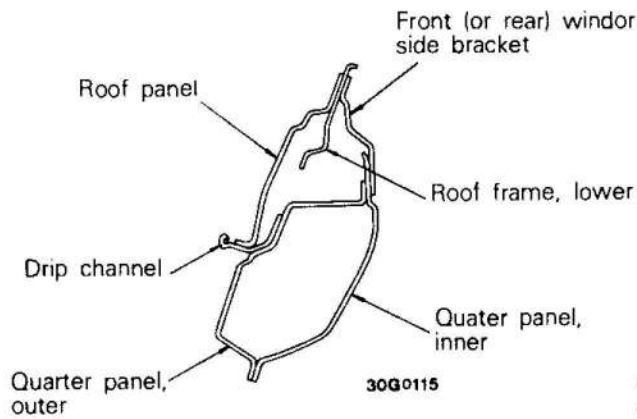
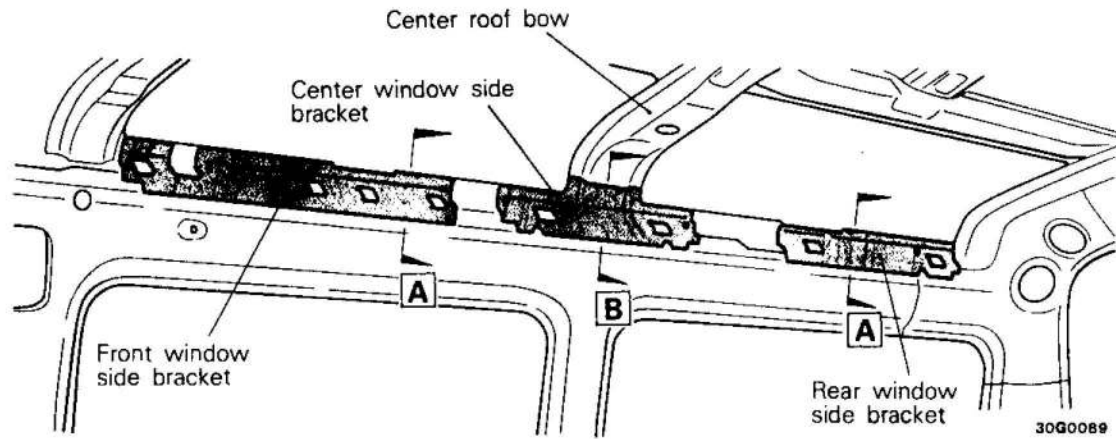
30G0053



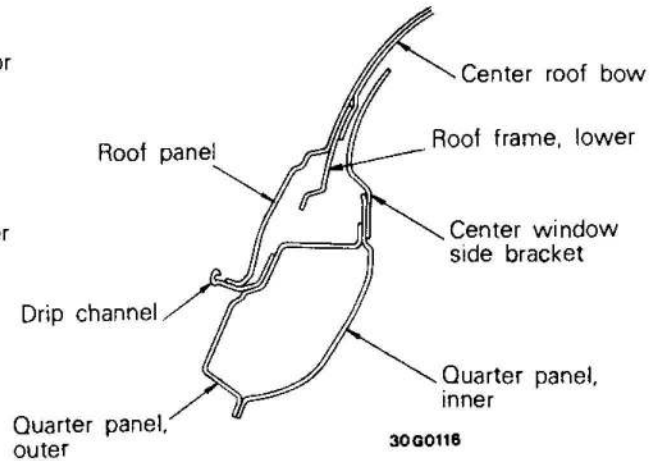
30G0061

**WINDOW SIDE BRACKETS (FOR VEHICLES WITH CRYSTAL LIGHT ROOF)**

Vehicles with a crystal light roof have front, center and rear window side brackets added to the roof and quarter panel portions to increase the stability of the connection between the roof and side body.



**A**



**B**

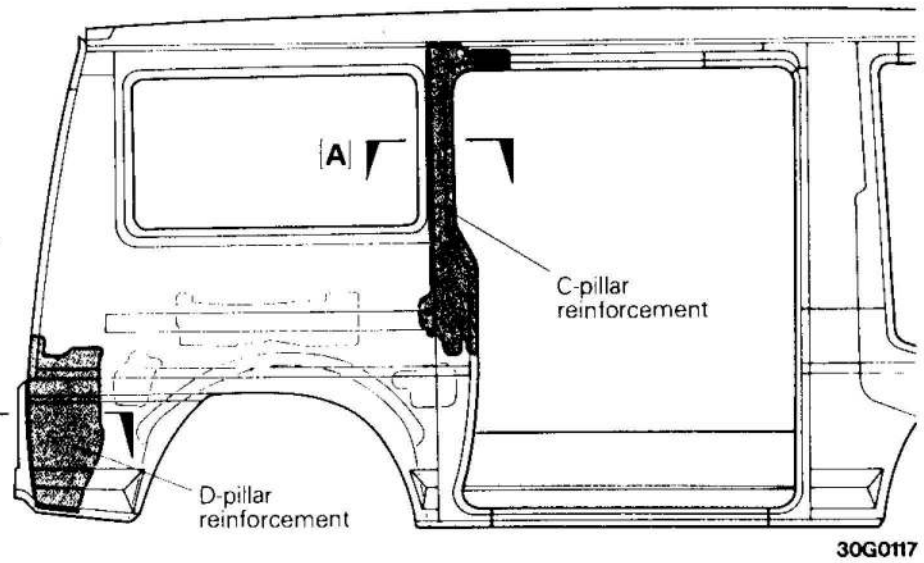
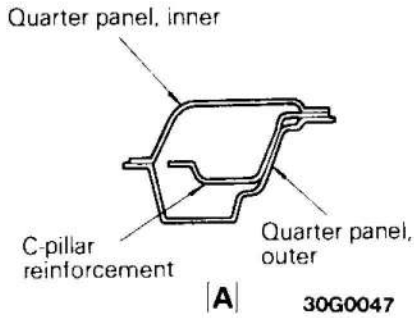


**QUARTER PANEL**

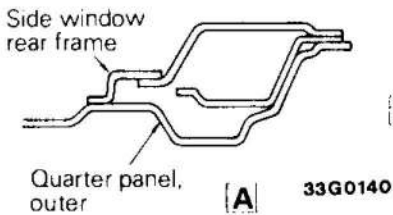
Because the quarter panel inner and outer panels are both large unified panels, reinforcements have been added at the openings for the rear door, tailgate, and windows, etc. in order to prevent panel vibration and increase the strength of each part.

**Standard and long body vehicles (five doors)**

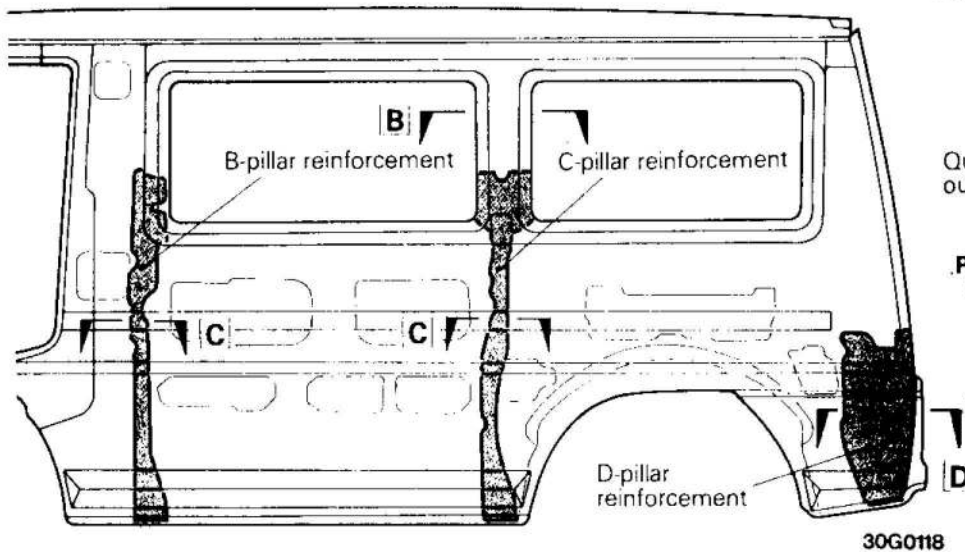
**Mini-bus  
Window van**



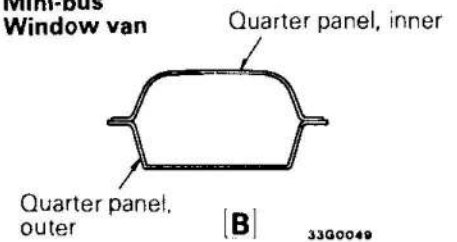
**Panel van**



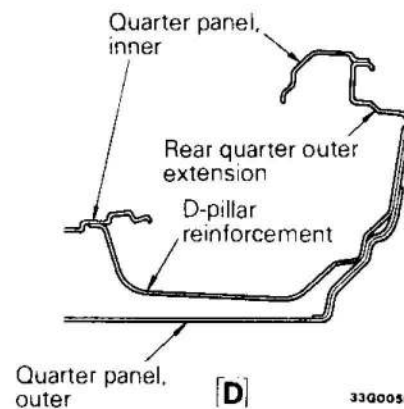
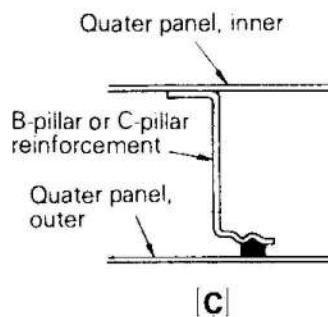
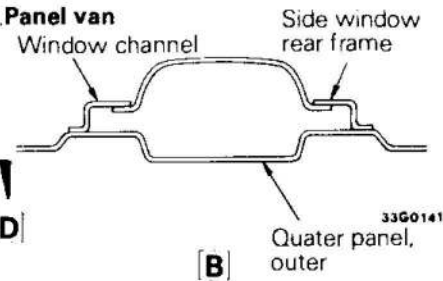
**Standard body vehicles (four doors)**



**Mini-bus  
Window van**



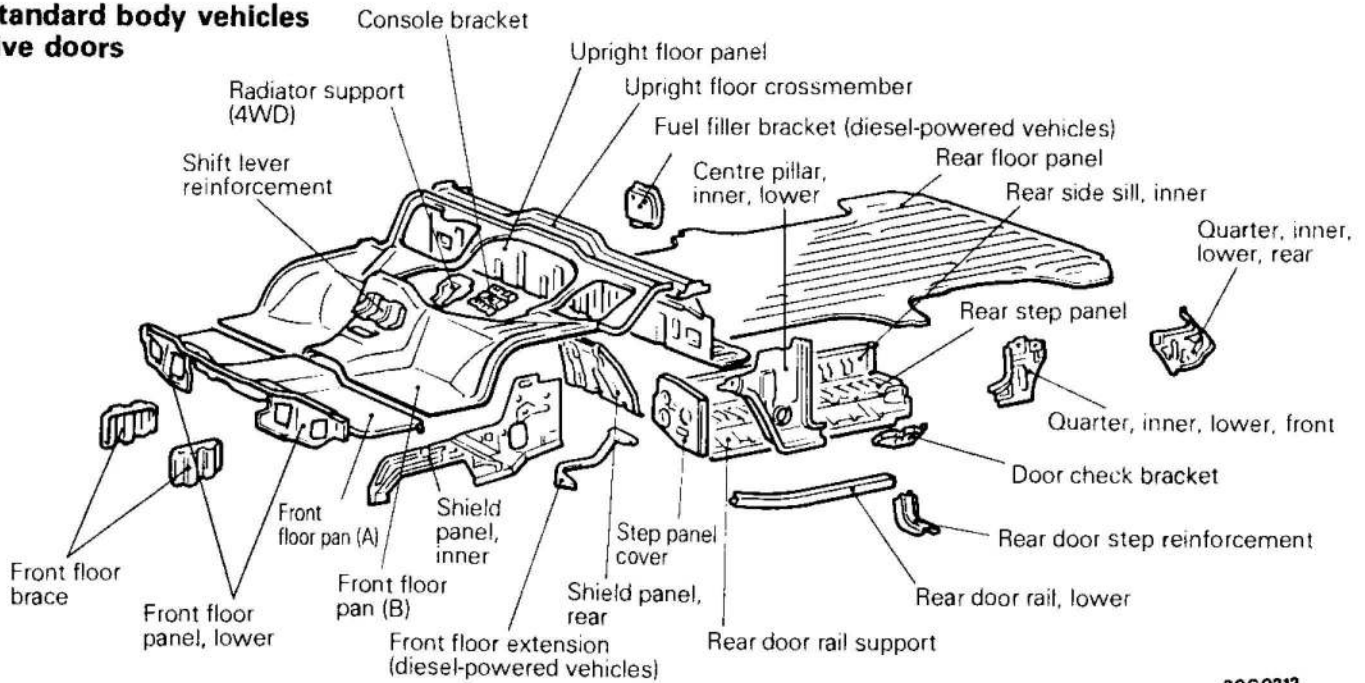
**Panel van**





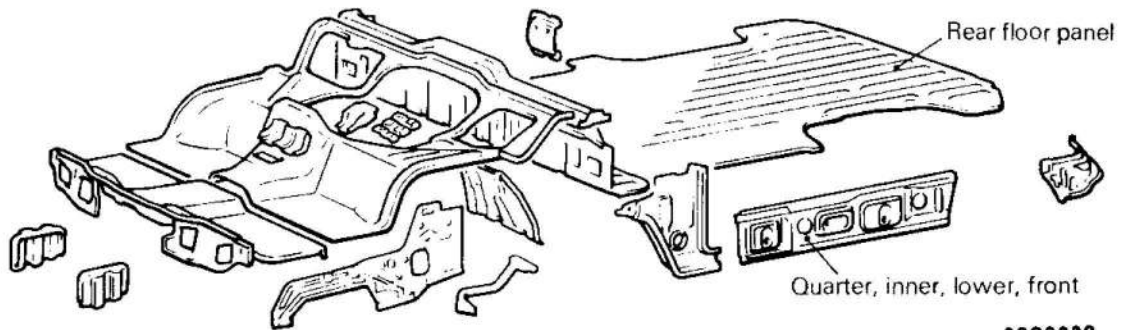
**UNDERBODY**

**Standard body vehicles  
Five doors**



30G0212

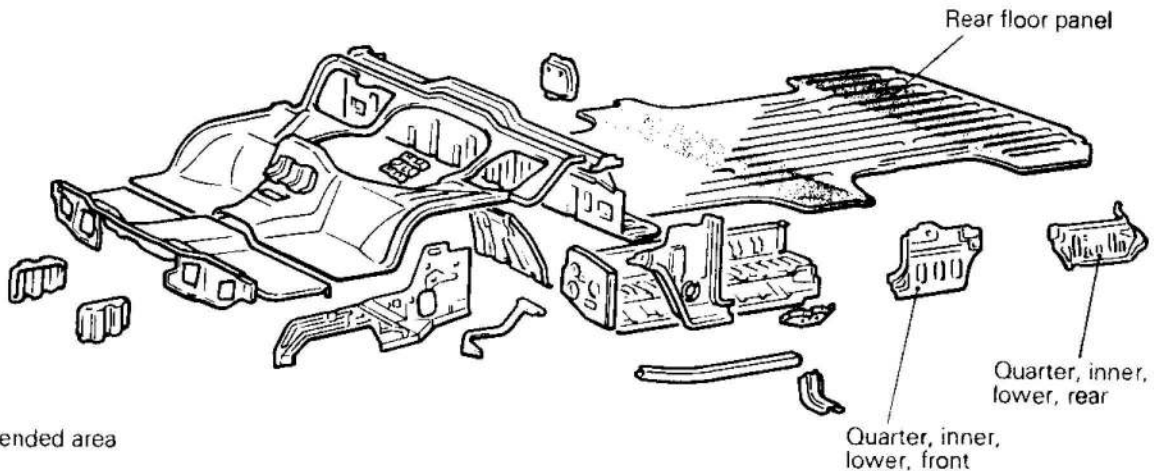
**Four doors**



30G0220

**Long body vehicles**

For long body vehicles, the rear floor panel has been made longer than the standard body where shown in the figure. In conjunction with this change, the quarter inner lower front and rear panels have been increased in size.



: Extended area

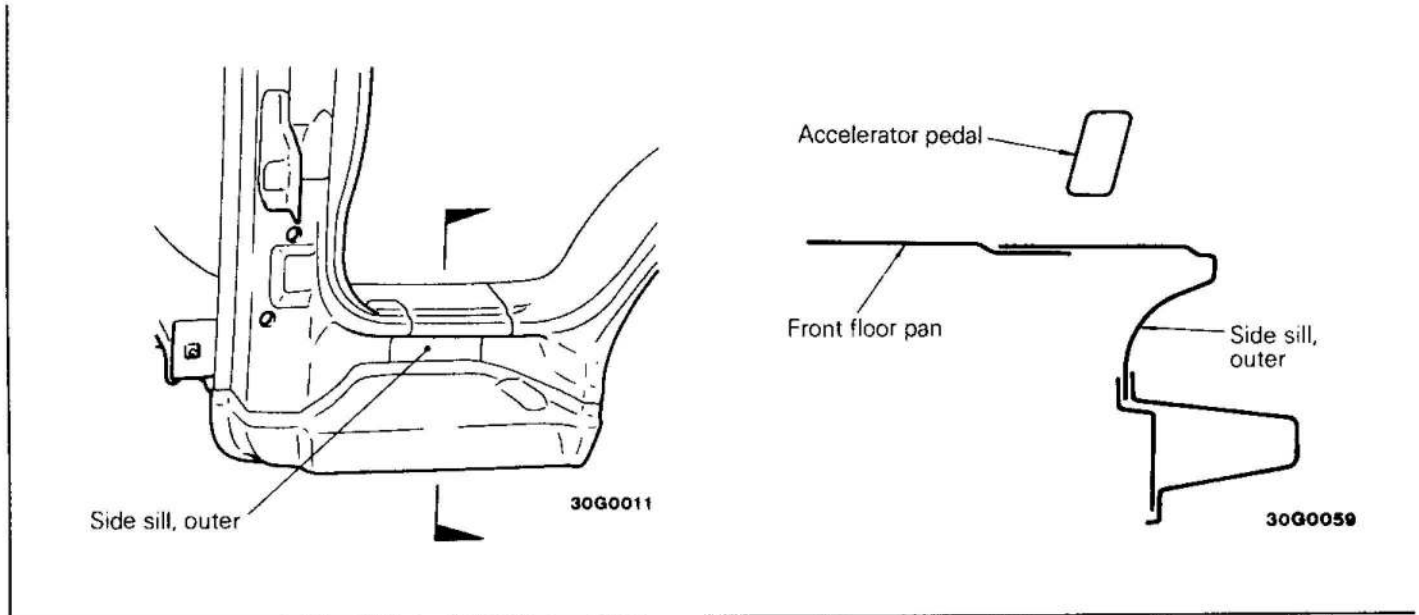
**NOTE**

For the four door vehicles and long body vehicles, only the component names of those panels which have a different configuration from those of the five door vehicles are given.

30G0211

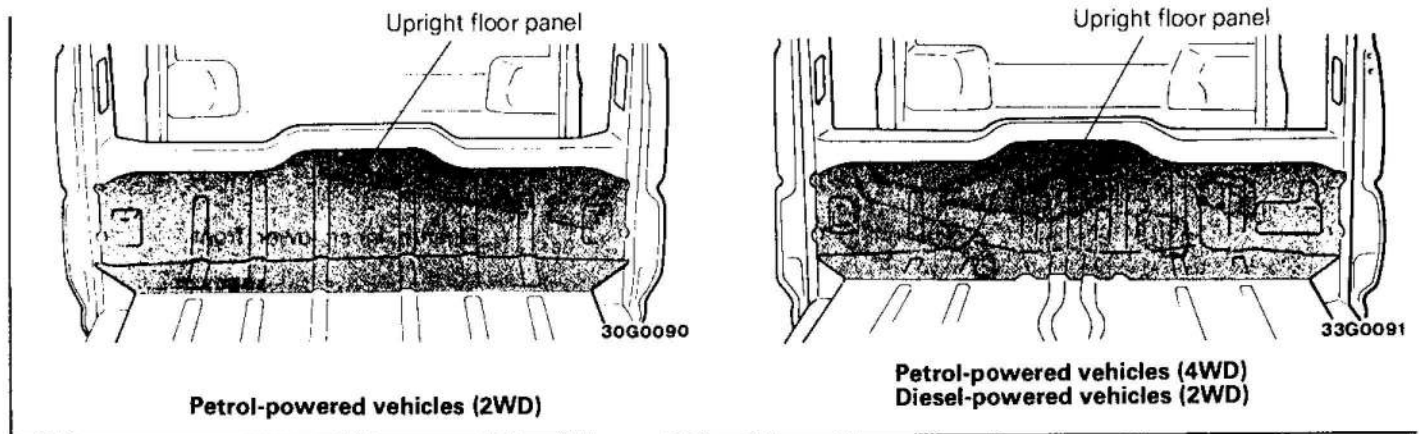
**FRONT FLOOR**

The configuration of the front floor pan and the side sill outer panel has been changed to a flat configuration in order to provide improved comfort in the feet area and to improve the access to and use of the accelerator pedal.



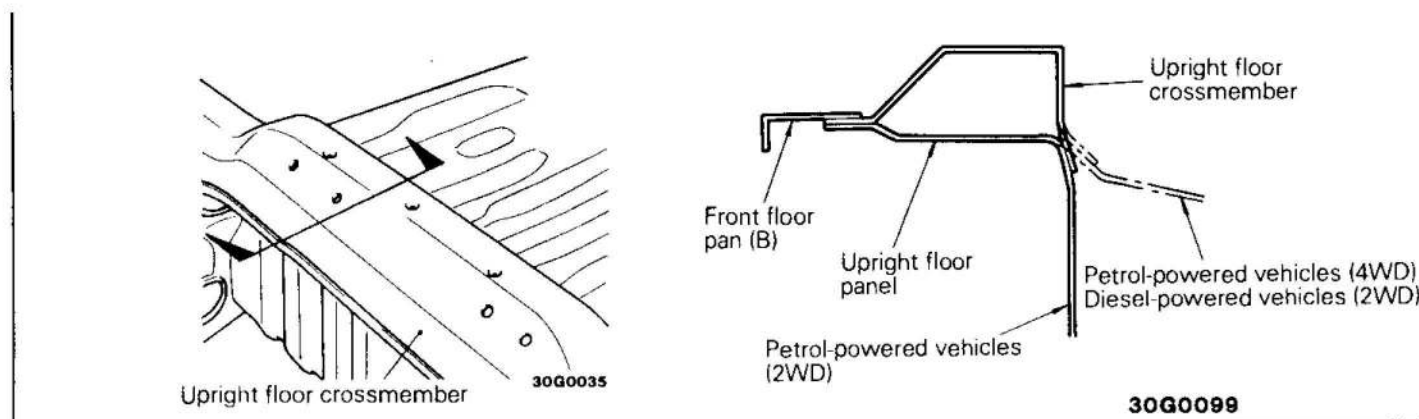
**UPRIGHT FLOOR PANEL**

The following two types of upright floor panels (which join the front floor and rear floor) have been established depending on engine specifications.



**UPRIGHT FLOOR CROSSMEMBER**

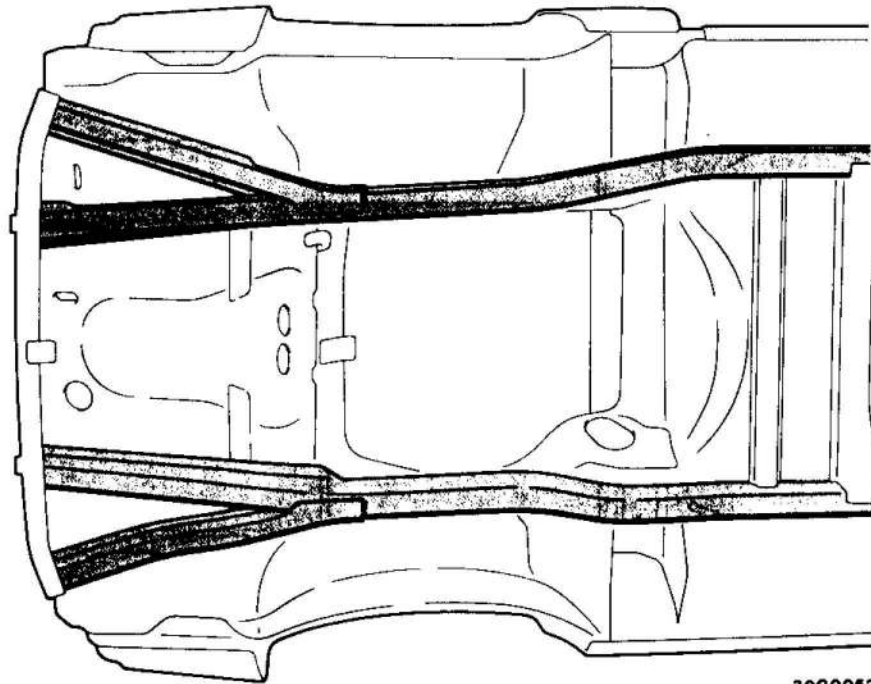
An upright floor crossmember with a closed cross-sectional configuration is used at the junction of the front floor and the rear floor, thus improving the body's torsional and bending rigidity.



**BODY FRAME**

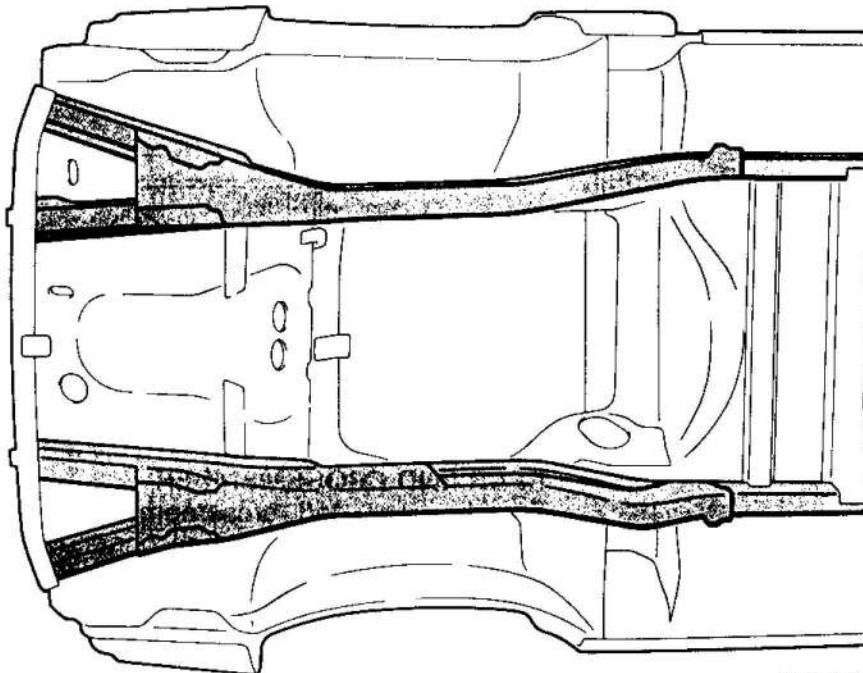
(1) The frame front edge has been changed to a Y-shape configuration in order to improve the energy-absorption characteristic relative to impacts from the front and from side angles. As a result, the frame's buckling efficiency has been improved and, in addition, the volume of body deformation at the time of a collision has been reduced, thereby improving driver and passenger safety.

**2WD**



30G0052

**4WD**



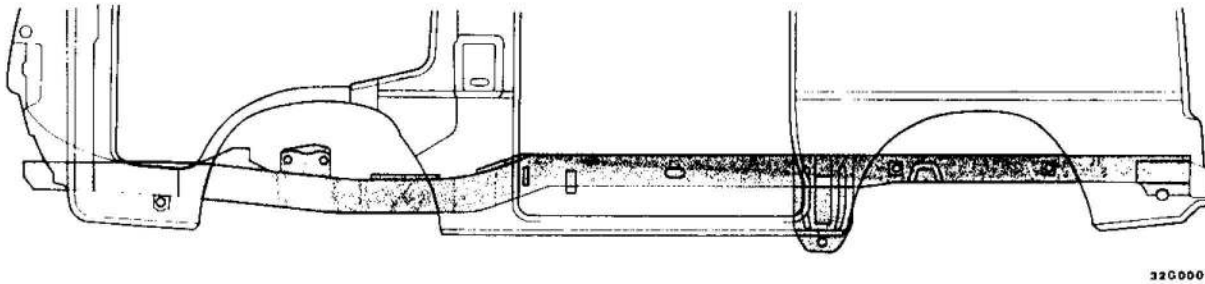
30G0051

(2) The monocoque construction, in which the frame is welded to the body, has been adopted, thus reducing body weight and increasing interior space.

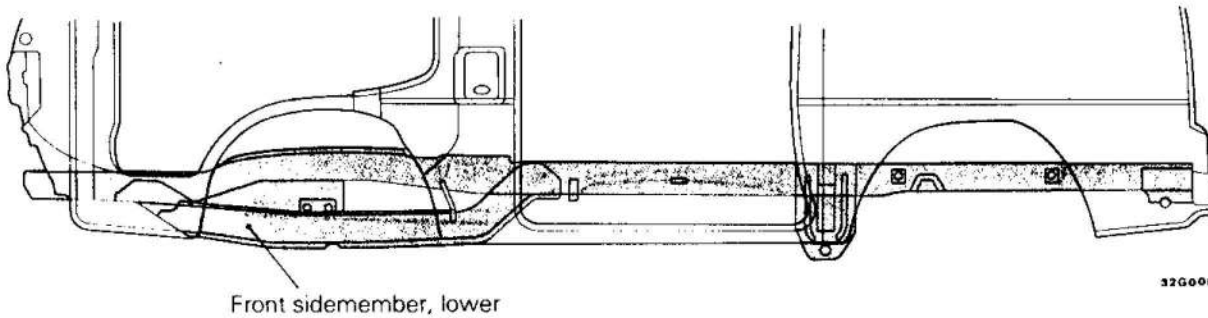
In addition, a double-layer construction, in which a front sidemember lower panel is added, is used for the 4WD, thus increasing the strength of the frame to correspond to the strengthened suspension, wheels, etc., and also improving the performance on poor road surfaces.

**Standard body vehicles**

**2WD**

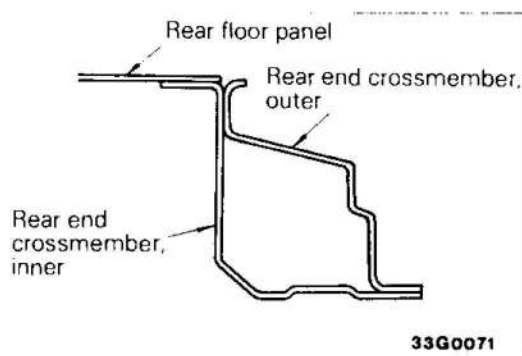
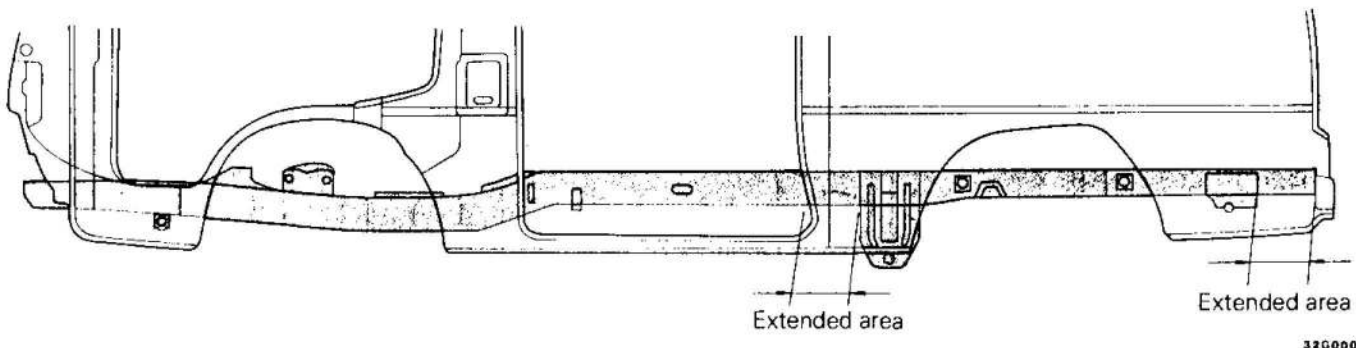


**4WD**



**Long body vehicles**

For long body vehicles, the length of the frame is increased, compared to standard body vehicles, where shown in the illustration.



**REAR END CROSSMEMBER**

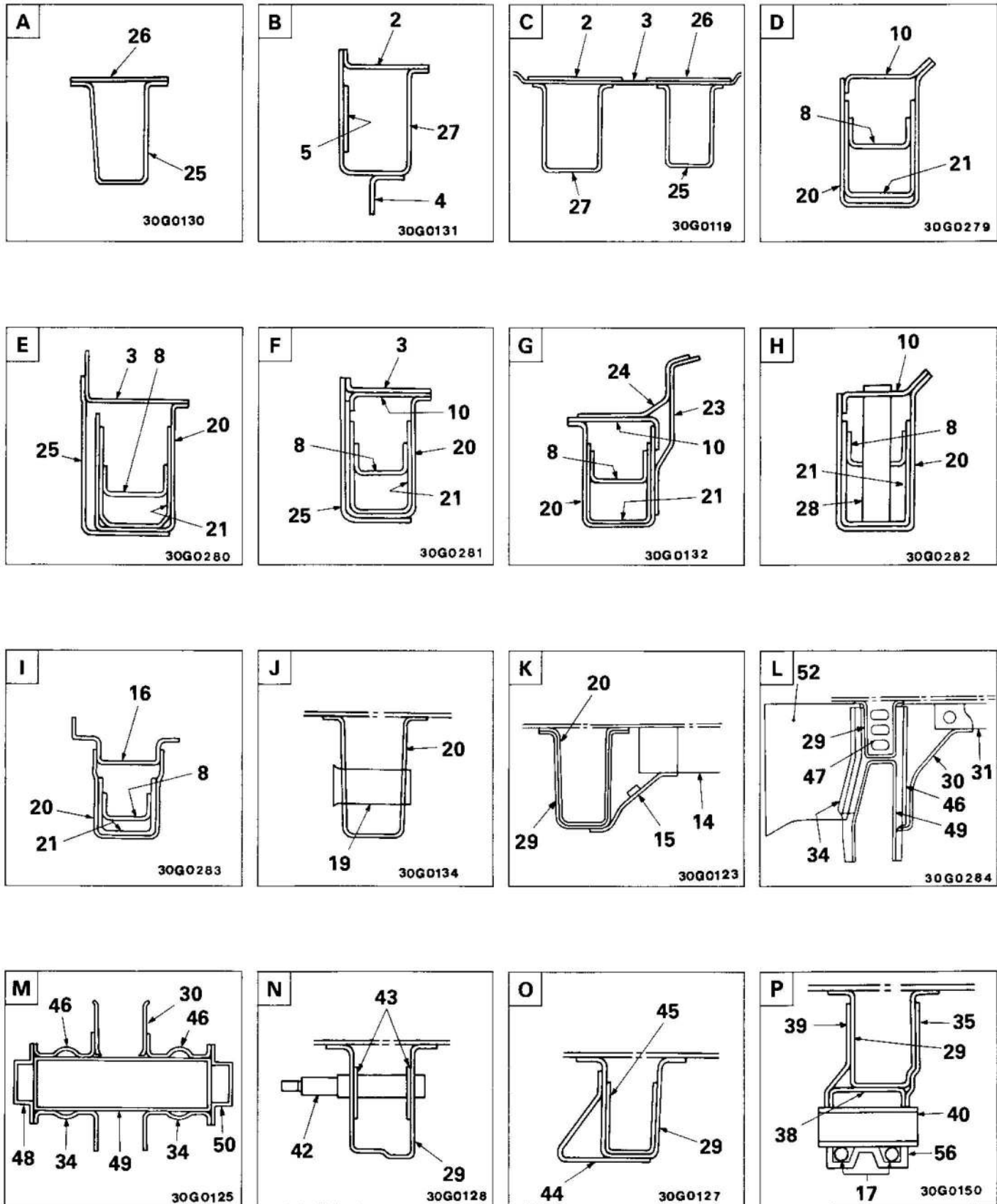
For the rear end crossmember, a closed cross-sectional construction composed of the inner and outer panels has been adopted in order to increase the torsional rigidity of the body.

**BODY FRAME REINFORCEMENTS**

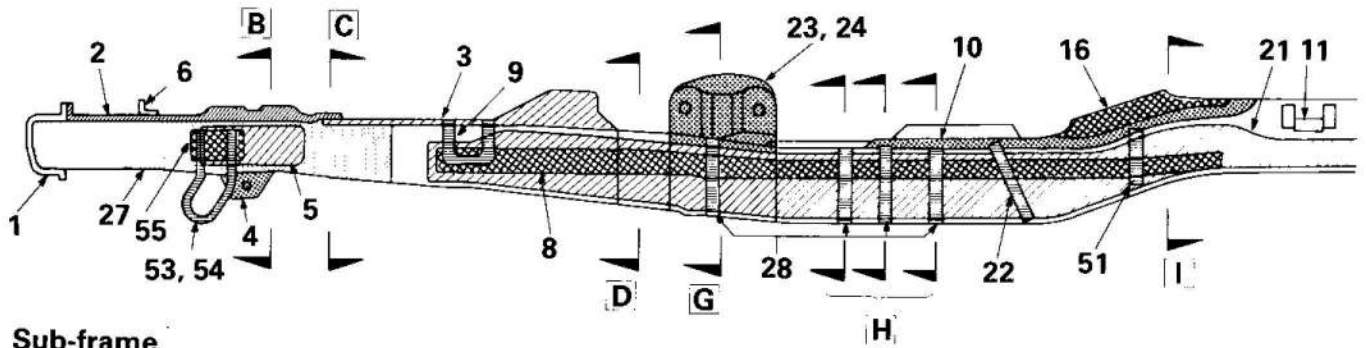
Standard body vehicles (2WD)

Vehicles for Europe

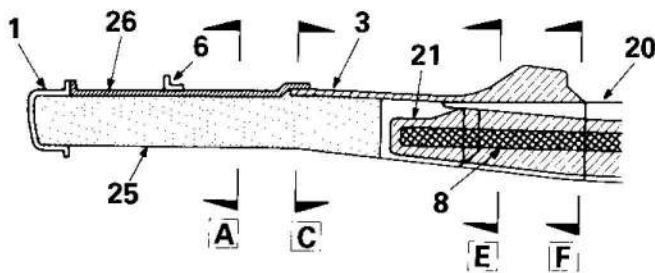
Vehicles for Australia (Vehicles built up to June, 1989)



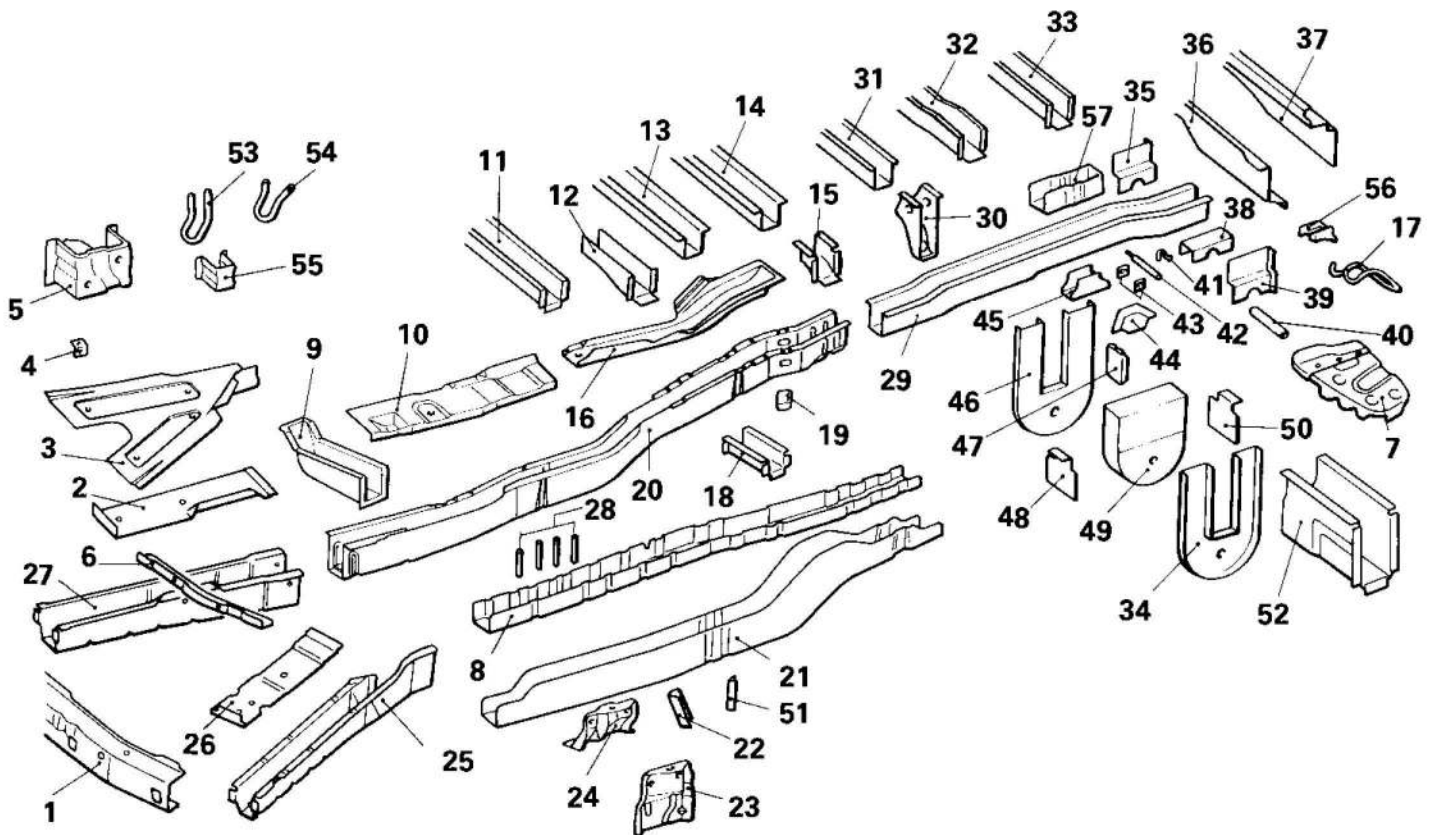
Main frame



Sub-frame

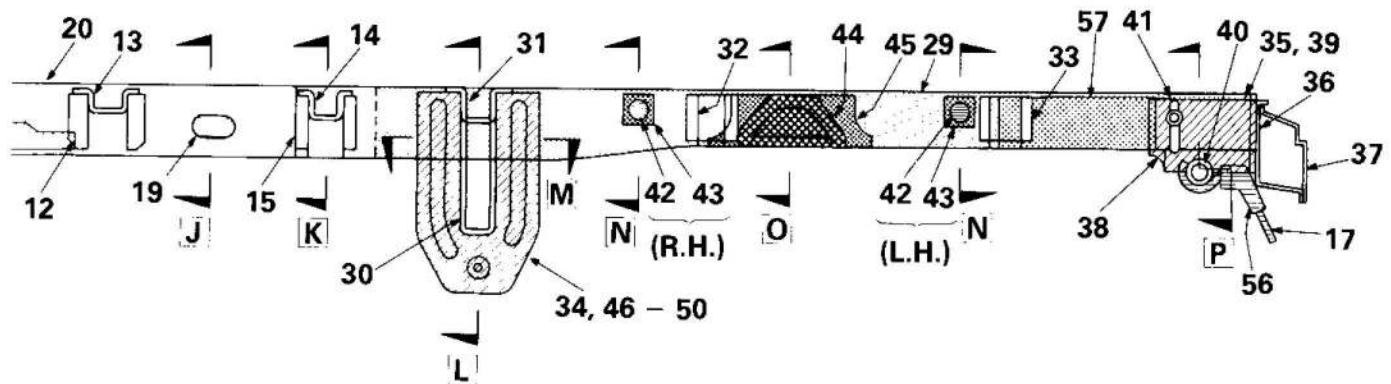


30G0296



30G0300

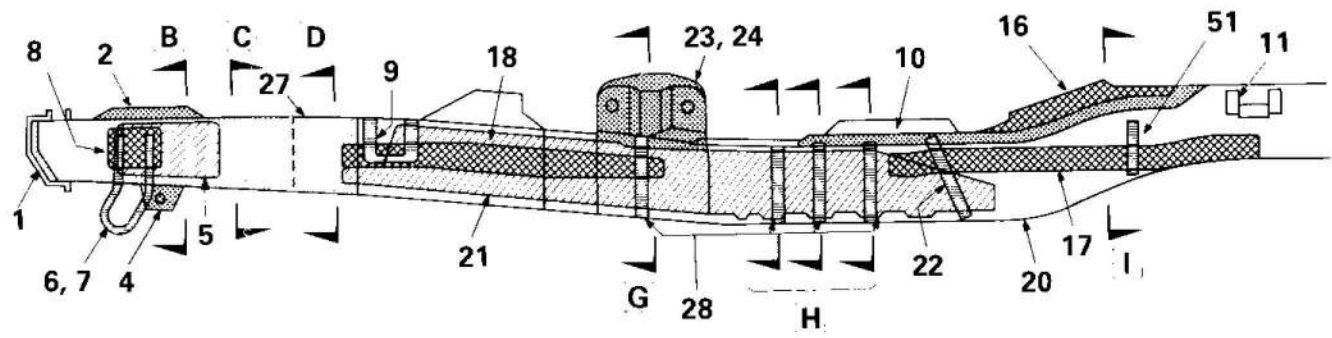




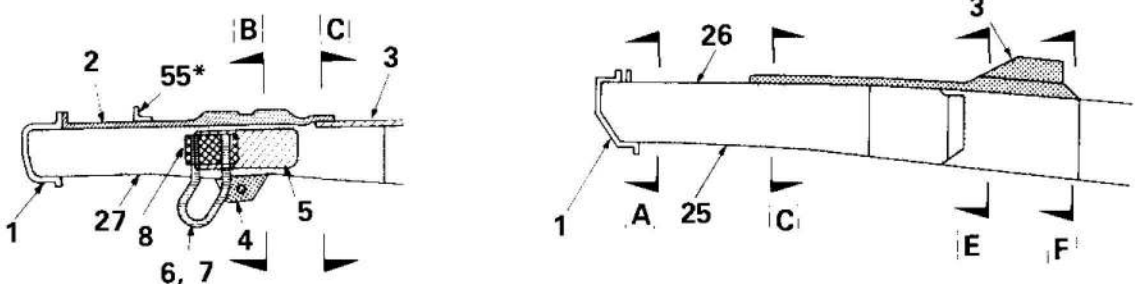
- |  |                                       |
|--|---------------------------------------|
| 1. Front end crossmember               | 30. Spring hanger support             |
| 2. Cover panel (A)                     | 31. Crossmember No. 4                 |
| 3. Cover panel (C)                     | 32. Crossmember No. 5                 |
| 4. Bevel gear box bracket              | 33. Crossmember No. 6                 |
| 5. Bevel gear box reinforcement        | 34. Spring hanger bracket, outer      |
| 6. Front frame extension, lower        | 35. Shackle hanger bracket, inner     |
| 7. Third seat anchor reinforcement     | 36. Rear end crossmember, inner       |
| 8. Front sidemember reinforcement (B)  | 37. Rear end crossmember, outer       |
| 9. Front floor brace                   | 38. Shackle hanger bracket            |
| 10. Cover panel (D)                    | 39. Shackle hanger bracket, outer     |
| 11. Crossmember No. 1                  | 40. Shackle hanger pipe               |
| 12. Crossmember No. 2 support          | 41. Muffler hanger pipe (R.H.)        |
| 13. Crossmember No. 2                  | 42. Damper pin                        |
| 14. Crossmember No. 3                  | 43. Rear sidemember reinforcement (B) |
| 15. Crossmember No. 3 support          | 44. Bump stopper bracket              |
| 16. Cover panel (E)                    | 45. Rear sidemember reinforcement (A) |
| 17. Rear hook (L.H.)                   | 46. Spring hanger bracket, inner      |
| 18. Front brace                        | 47. Bulkhead                          |
| 19. Pipe                               | 48. Spring hanger gusset (A)          |
| 20. Centre sidemember                  | 49. Spring hanger bracket             |
| 21. Front sidemember reinforcement (A) | 50. Spring hanger gusset (B)          |
| 22. Shield panel rear bracket          | 51. Front brace bracket               |
| 23. Upper arm bracket                  | 52. Rear brace                        |
| 24. Upper arm bracket reinforcement    | 53. Front hook                        |
| 25. Front sidemember (B)               | 54. Front hook                        |
| 26. Cover panel (B)                    | 55. Front hook reinforcement          |
| 27. Front sidemember (A)               | 56. Rear hook bracket (L.H.)          |
| 28. Pipes                              | 57. Hitch member reinforcement        |
| 29. Rear sidemember                    | (vehicles for Europe)                 |

Standard body vehicles (2WD)  
Vehicles for General Export

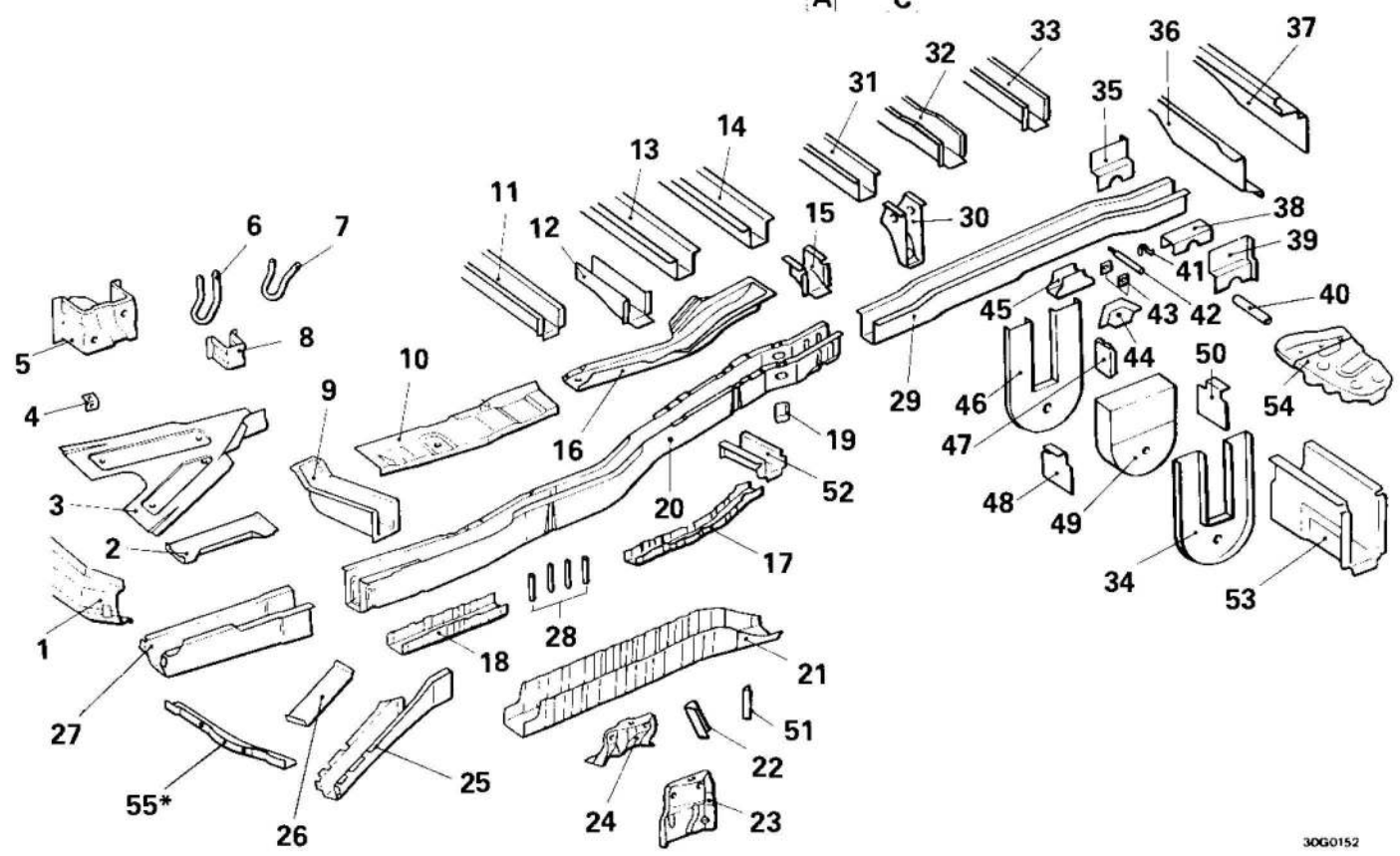
Main frame



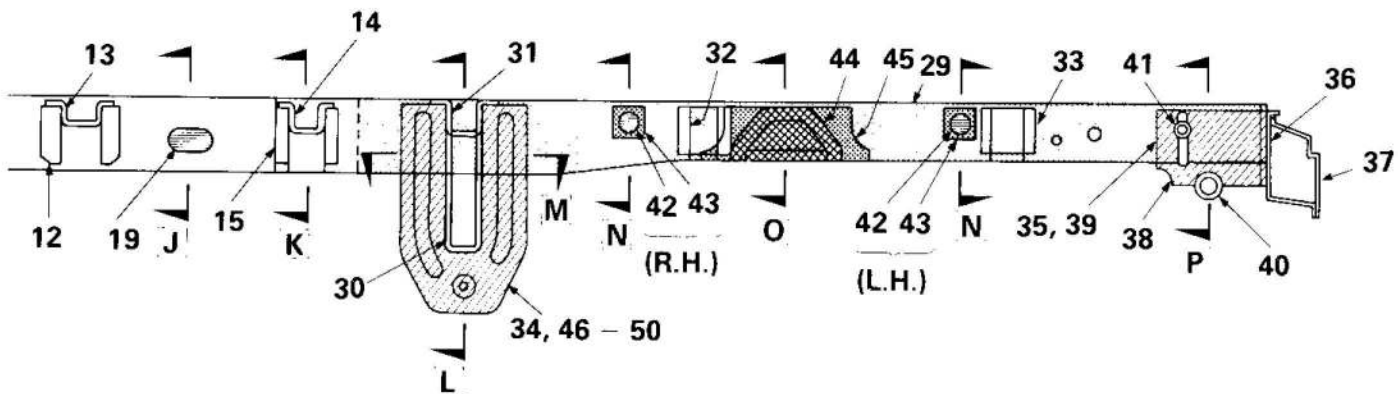
Sub-frame



30G0296



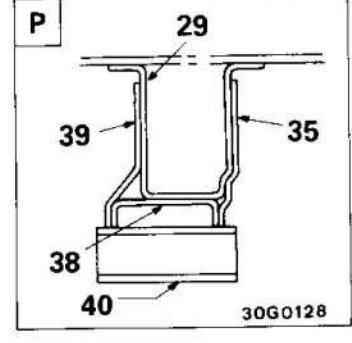
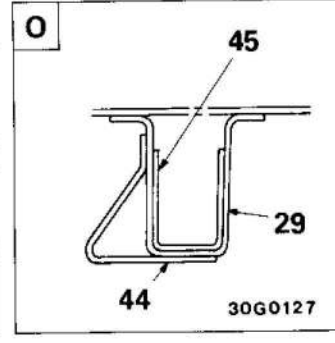
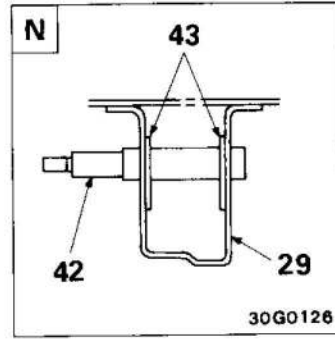
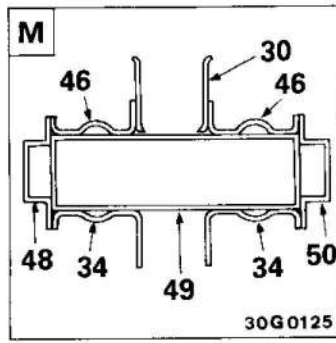
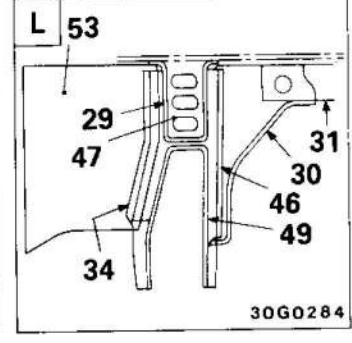
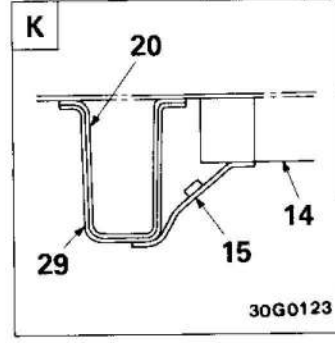
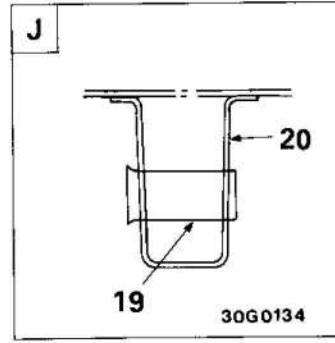
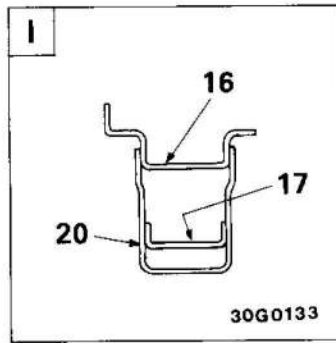
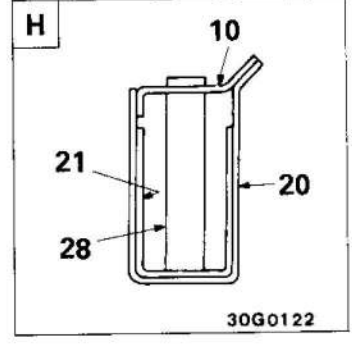
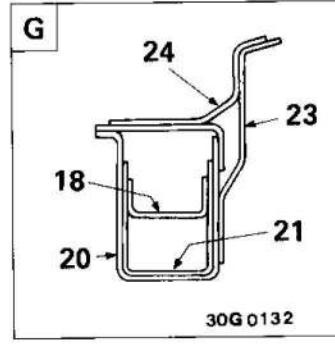
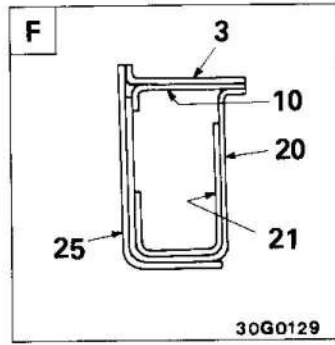
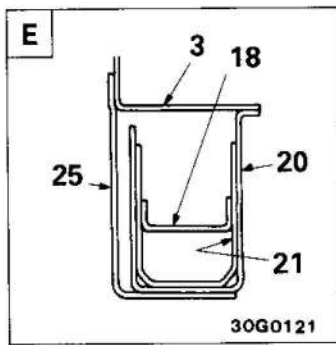
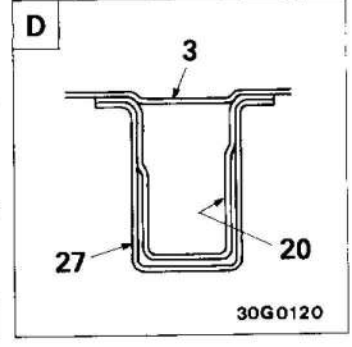
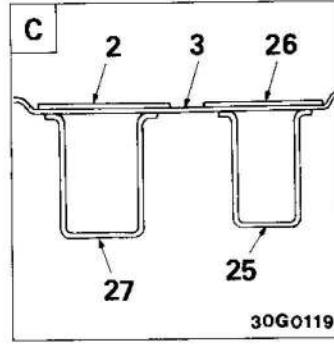
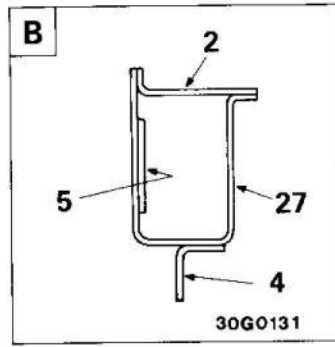
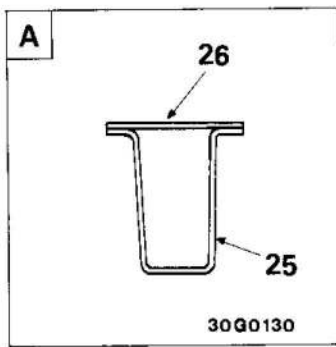
30G0152



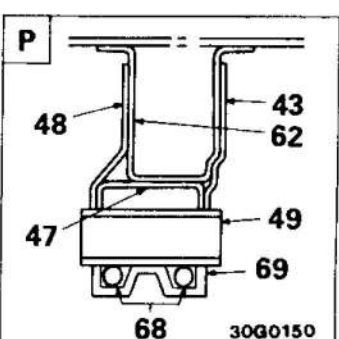
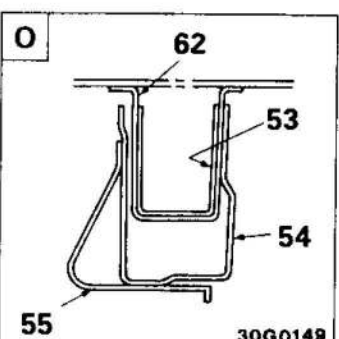
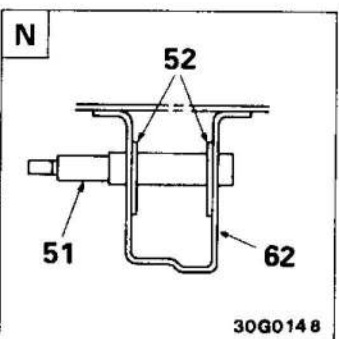
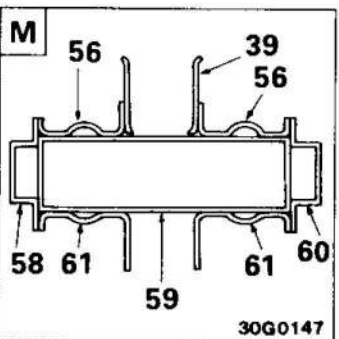
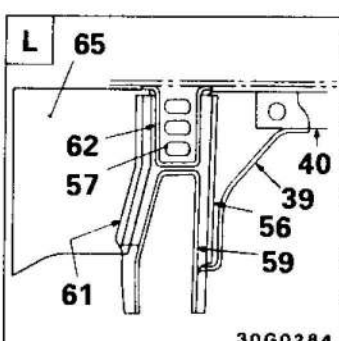
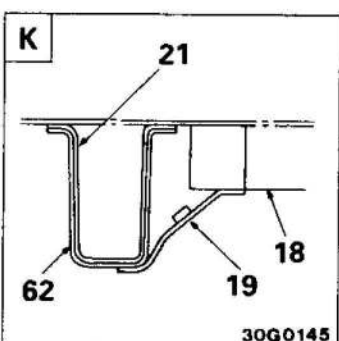
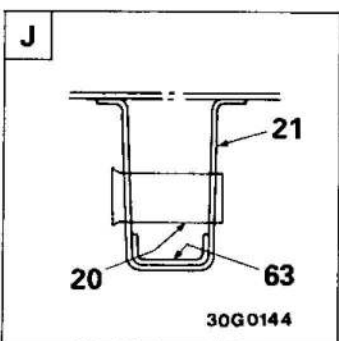
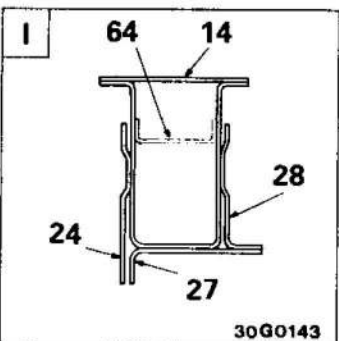
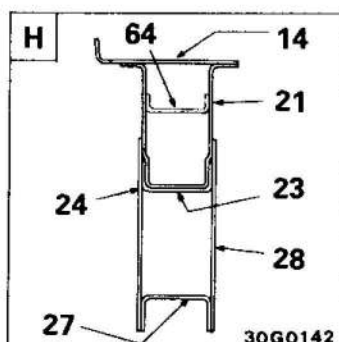
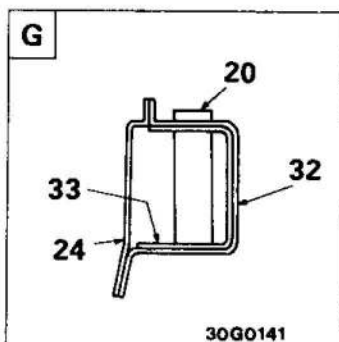
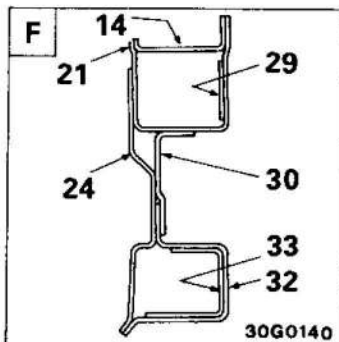
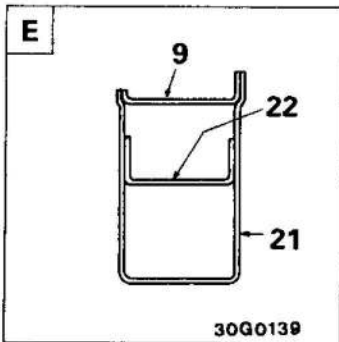
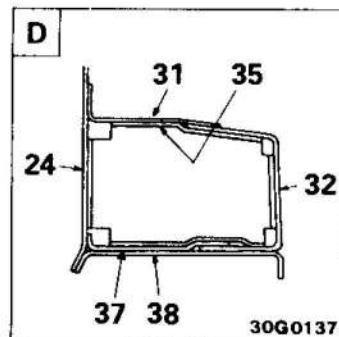
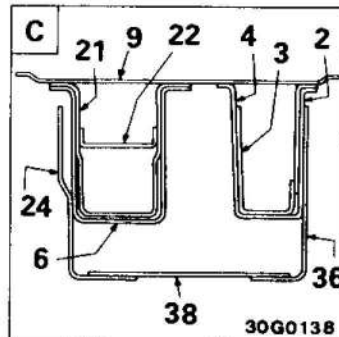
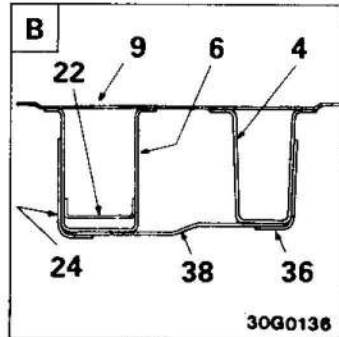
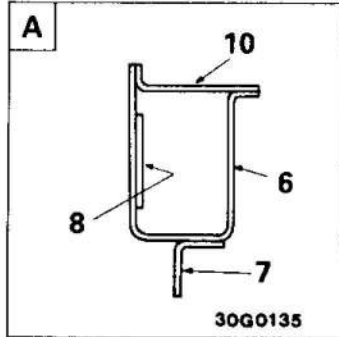
30G0151

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. Front end crossmember</li> <li>2. Cover panel (A)</li> <li>3. Cover panel (C)</li> <li>4. Bevel gear box bracket</li> <li>5. Bevel gear box reinforcement</li> <li>6. Front hook</li> <li>7. Front hook</li> <li>8. Front hook reinforcement</li> <li>9. Front floor brace</li> <li>10. Cover panel (D)</li> <li>11. Crossmember No. 1</li> <li>12. Crossmember No. 2 support</li> <li>13. Crossmember No. 2</li> <li>14. Crossmember No. 3</li> <li>15. Crossmember No. 3 support</li> <li>16. Cover panel (E)</li> <li>17. Front sidemember reinforcement (C)</li> <li>18. Front sidemember reinforcement (A)</li> <li>19. Pipe</li> <li>20. Centre sidemember</li> <li>21. Front sidemember reinforcement (B)</li> <li>22. Shield panel rear bracket</li> <li>23. Upper arm bracket</li> <li>24. Upper arm bracket reinforcement</li> <li>25. Front sidemember (B)</li> <li>26. Cover panel (B)</li> <li>27. Front sidemember (A)</li> </ol> | <ol style="list-style-type: none"> <li>28. Pipes</li> <li>29. Rear sidemember</li> <li>30. Spring hanger support</li> <li>31. Crossmember No. 4</li> <li>32. Crossmember No. 5</li> <li>33. Crossmember No. 6</li> <li>34. Spring hanger bracket, outer</li> <li>35. Shackle hanger bracket, inner</li> <li>36. Rear end crossmember, inner</li> <li>37. Rear end crossmember, outer</li> <li>38. Shackle hanger bracket</li> <li>39. Shackle hanger bracket, outer</li> <li>40. Shackle hanger pipe</li> <li>41. Muffler hanger pipe (R.H.)</li> <li>42. Damper pin</li> <li>43. Rear sidemember reinforcement (B)</li> <li>44. Bump stopper bracket</li> <li>45. Rear sidemember reinforcement (A)</li> <li>46. Spring hanger bracket, inner</li> <li>47. Bulkhead</li> <li>48. Spring hanger gusset (A)</li> <li>49. Spring hanger bracket</li> <li>50. Spring hanger gusset (B)</li> <li>51. Front brace bracket</li> <li>52. Front brace</li> <li>53. Rear brace</li> <li>54. Third seat anchor reinforcement</li> <li>55*. Front frame extension, lower</li> </ol> |
|---|--|

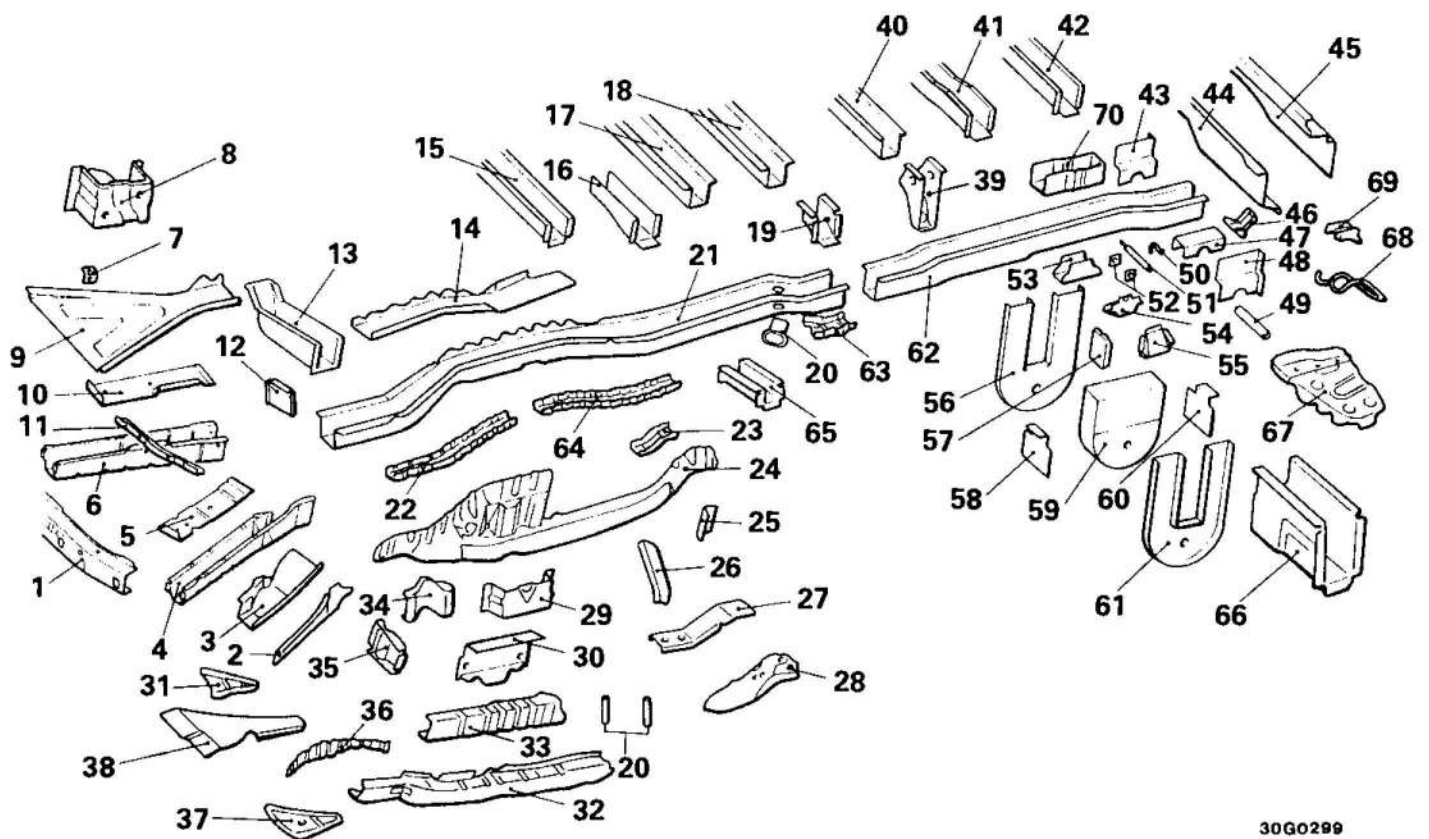
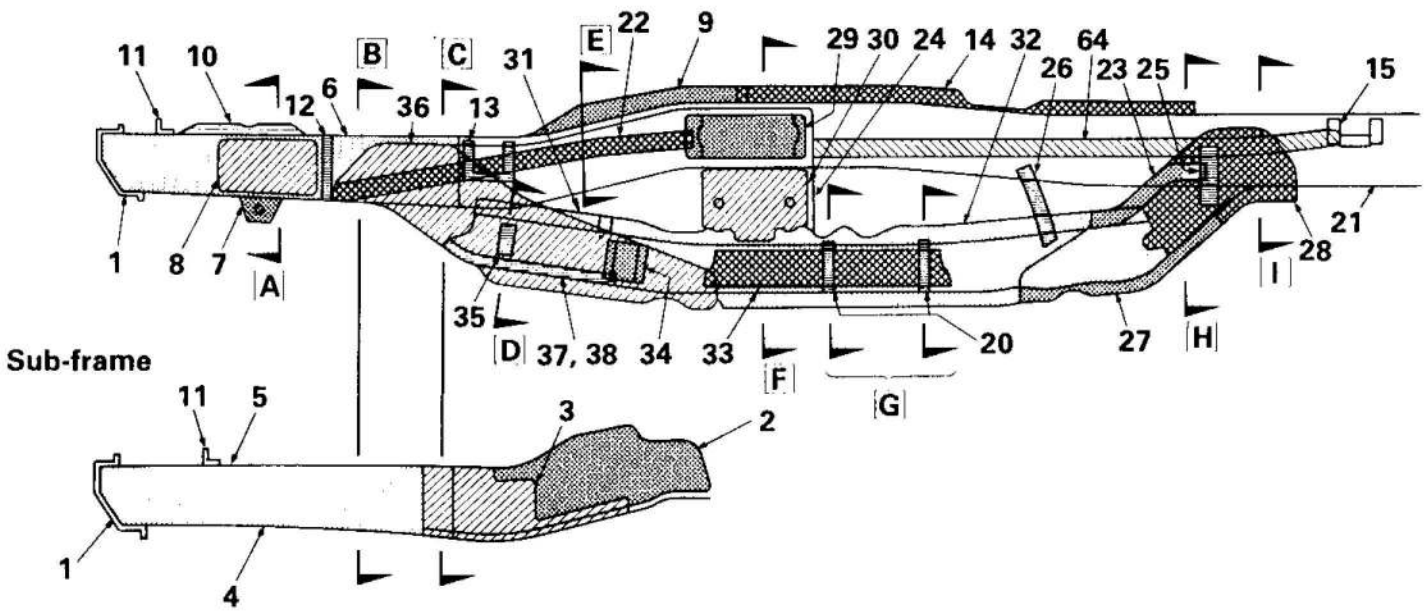
\*Exceed and XL-2WD models built from July 1990



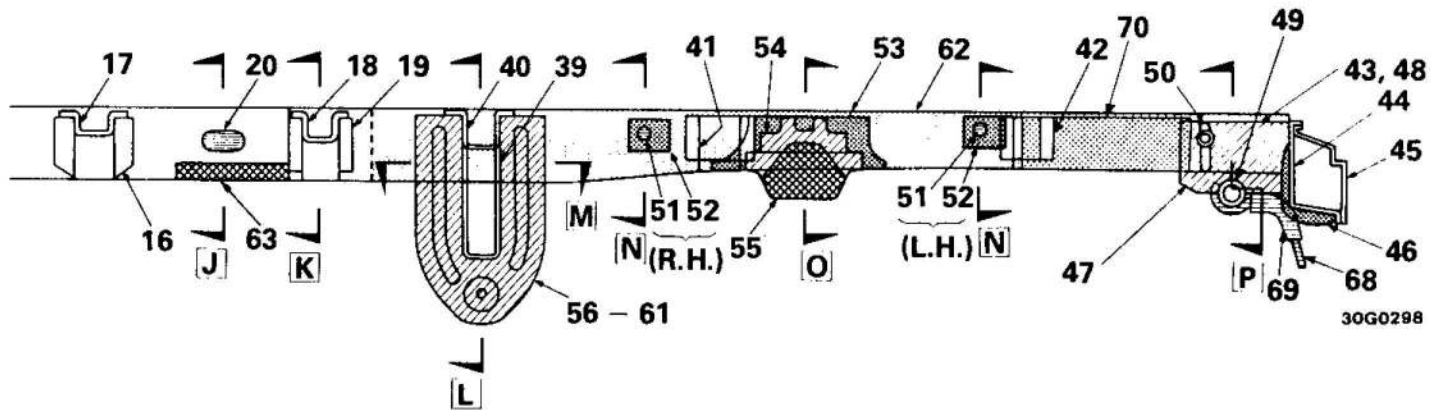
Standard body vehicles (4WD)  
Vehicles for Europe and Australia



Main frame



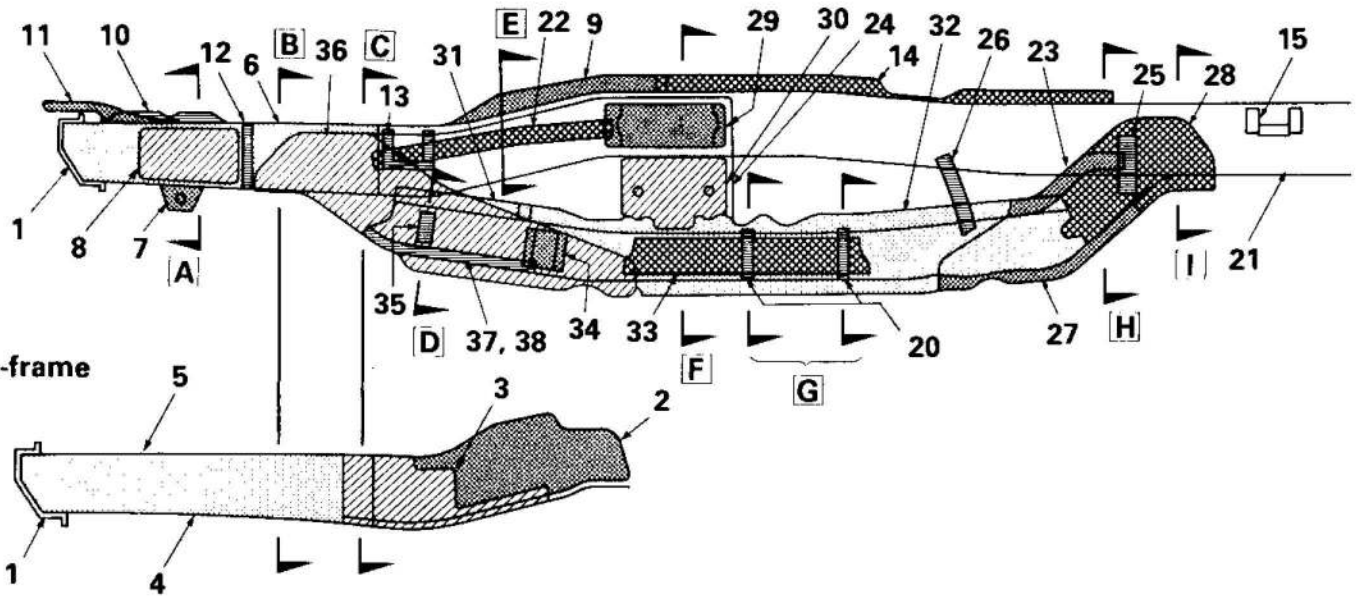
30G0299



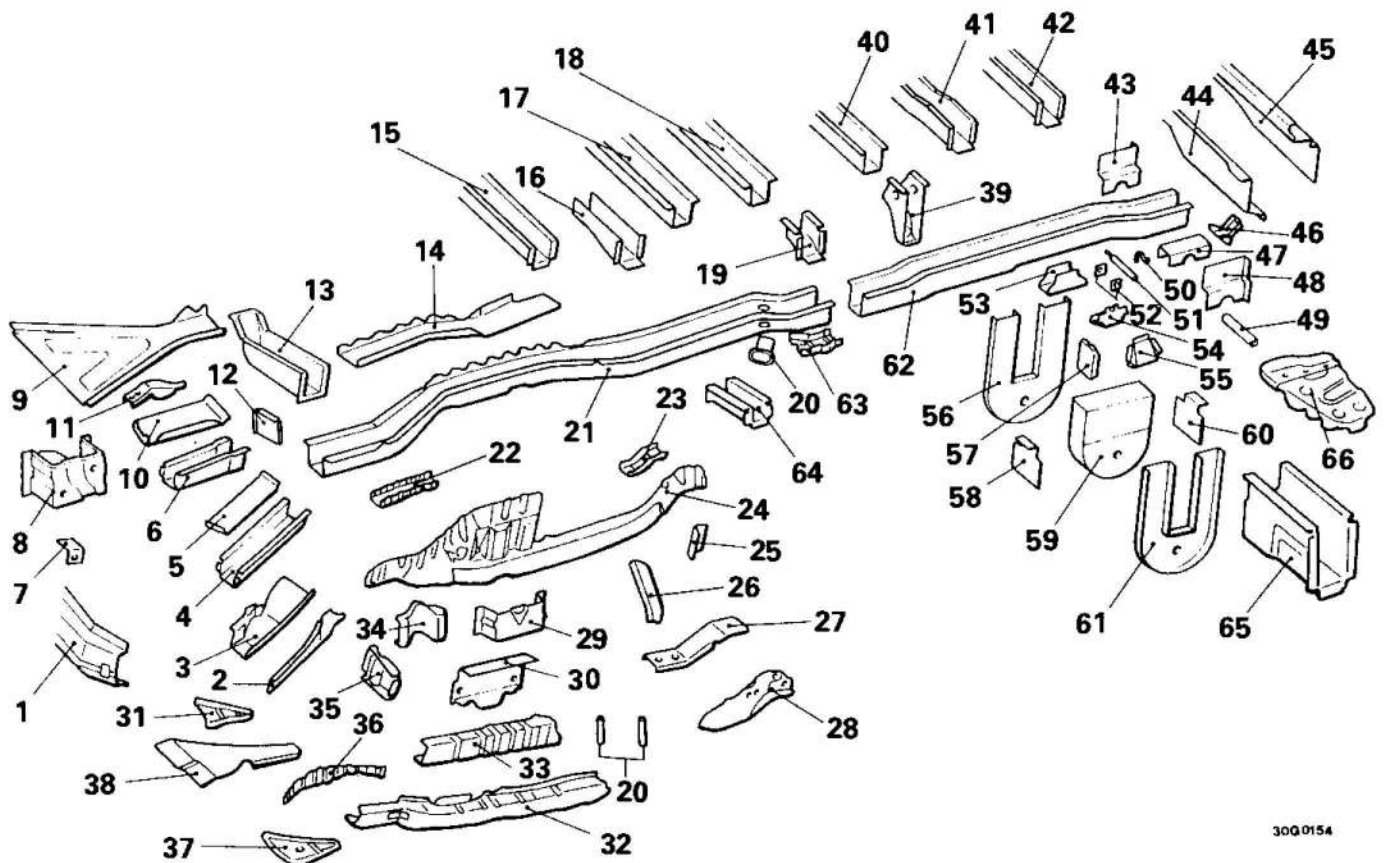
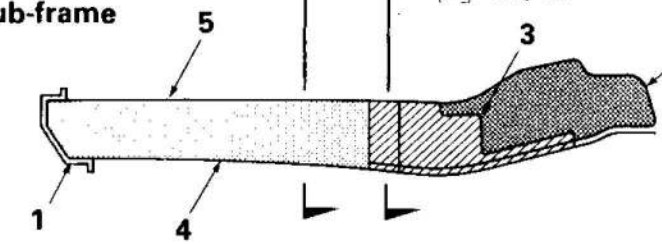
- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. Front end crossmember</li> <li>2. Front sidemember side extension (B)</li> <li>3. Front sidemember lower extension (B)</li> <li>4. Front sidemember (B)</li> <li>5. Cover panel (B)</li> <li>6. Front sidemember (A)</li> <li>7. Bevel gear box bracket</li> <li>8. Bevel gear box reinforcement</li> <li>9. Cover panel (C)</li> <li>10. Cover panel (A)</li> <li>11. Front frame extension, lower</li> <li>12. Bulkhead (C)</li> <li>13. Front floor brace</li> <li>14. Cover panel (D)</li> <li>15. Crossmember No. 1</li> <li>16. Crossmember No. 2 support</li> <li>17. Crossmember No. 2</li> <li>18. Crossmember No. 3</li> <li>19. Crossmember No. 3 support</li> <li>20. Pipes</li> <li>21. Centre sidemember</li> <li>22. Centre sidemember reinforcement (A)</li> <li>23. Front sidemember gusset, lower</li> <li>24. Front sidemember, lower, inner</li> <li>25. Front brace bracket</li> <li>26. Shield panel rear bracket</li> <li>27. Front sidemember rear gusset (B)</li> <li>28. Front sidemember rear gusset (A)</li> <li>29. Front damper reinforcement</li> <li>30. Upper arm plate</li> <li>31. Front sidemember plate, lower</li> <li>32. Front sidemember, lower, outer</li> <li>33. Front sidemember lower reinforcement</li> <li>34. Bulkhead (B)</li> <li>35. Bulkhead (A)</li> </ol> | <ol style="list-style-type: none"> <li>36. Front sidemember front gusset (A)</li> <li>37. Front sidemember lower reinforcement, front</li> <li>38. Front sidemember front gusset (B)</li> <li>39. Spring hanger support</li> <li>40. Crossmember No. 4</li> <li>41. Crossmember No. 5</li> <li>42. Crossmember No. 6</li> <li>43. Shackle hanger bracket, inner</li> <li>44. Rear end crossmember, inner</li> <li>45. Rear end crossmember, outer</li> <li>46. Under guard bracket</li> <li>47. Shackle hanger bracket</li> <li>48. Shackle hanger bracket, outer</li> <li>49. Shackle hanger pipe</li> <li>50. Muffler hanger pipe (R.H.)</li> <li>51. Damper pin</li> <li>52. Rear sidemember reinforcement (B)</li> <li>53. Rear sidemember reinforcement (A)</li> <li>54. Bump stopper bracket</li> <li>55. Bump stopper plate</li> <li>56. Spring hanger bracket, inner</li> <li>57. Bulkhead</li> <li>58. Spring hanger gusset (A)</li> <li>59. Spring hanger bracket</li> <li>60. Spring hanger gusset (B)</li> <li>61. Spring hanger bracket, outer</li> <li>62. Rear sidemember</li> <li>63. Transfer reinforcement</li> <li>64. Centre sidemember reinforcement (B)</li> <li>65. Front brace</li> <li>66. Rear brace</li> <li>67. Third seat anchor reinforcement</li> <li>68. Rear hook</li> <li>69. Rear hook bracket</li> <li>70. Hitch member reinforcement</li> </ol> |
|--|--|

Standard body vehicles (4WD)  
Vehicles for General Export

Main frame

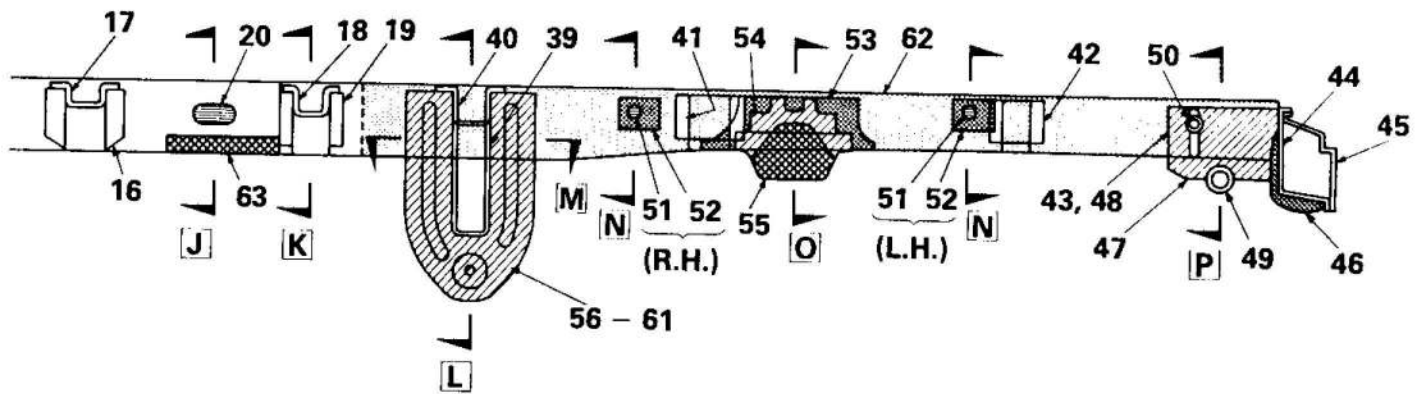


Sub-frame



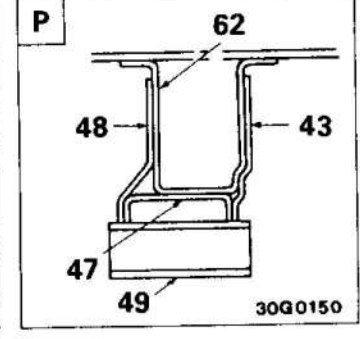
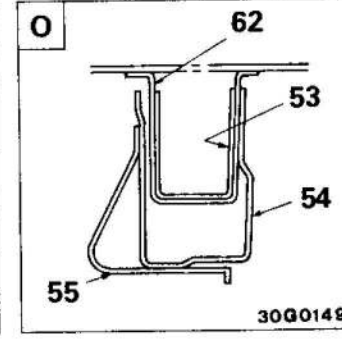
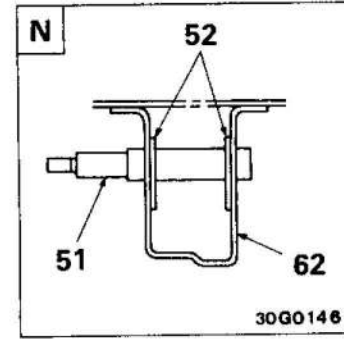
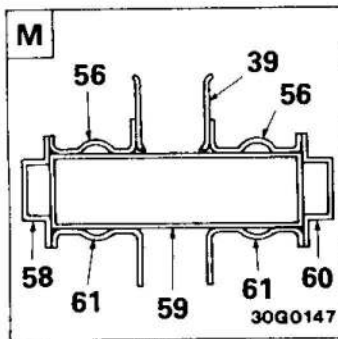
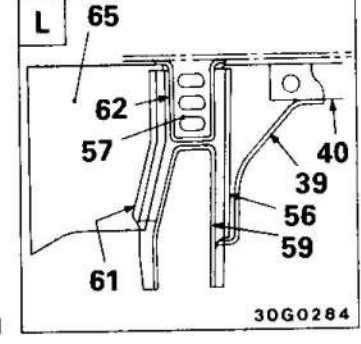
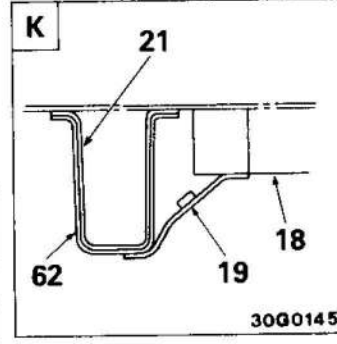
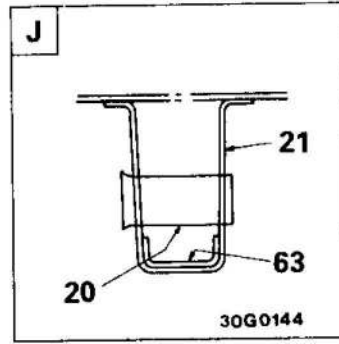
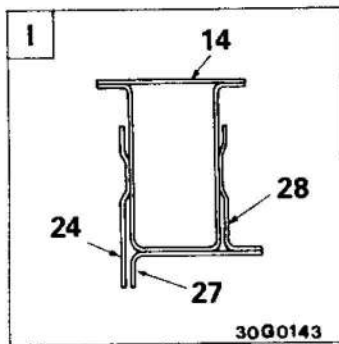
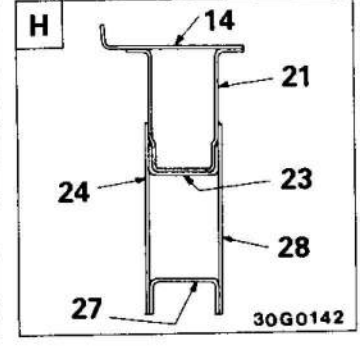
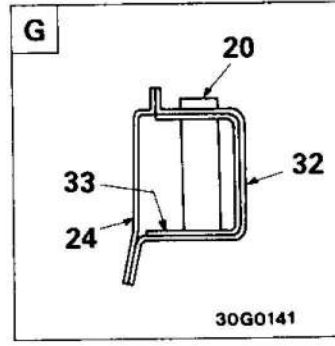
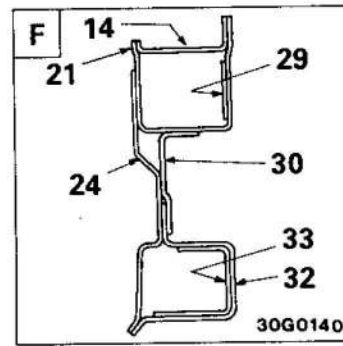
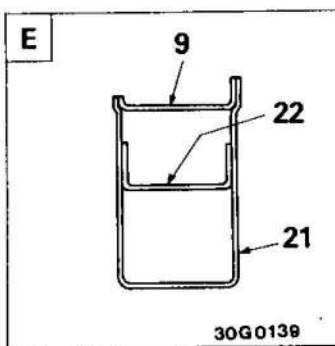
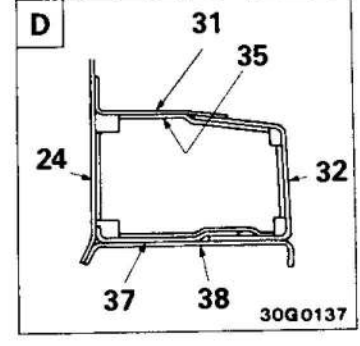
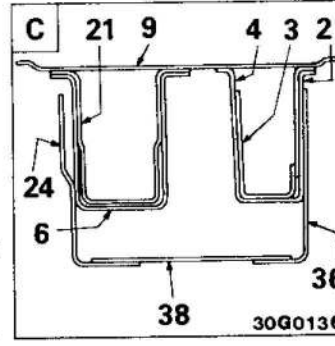
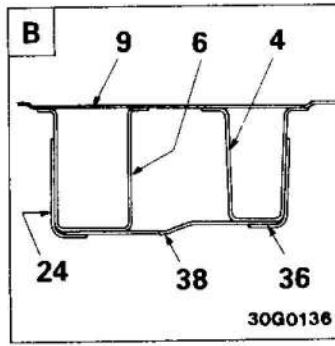
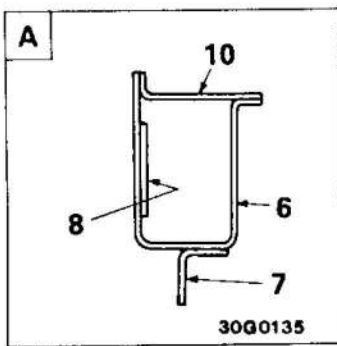
3000154





30G0153

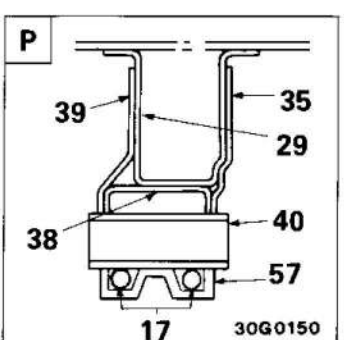
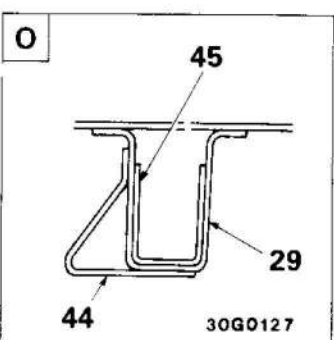
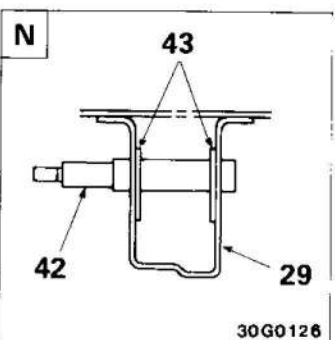
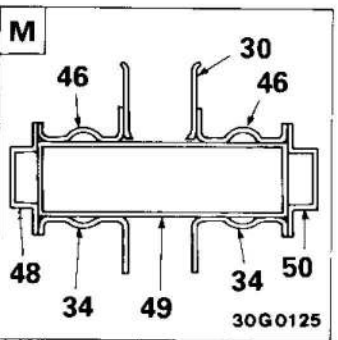
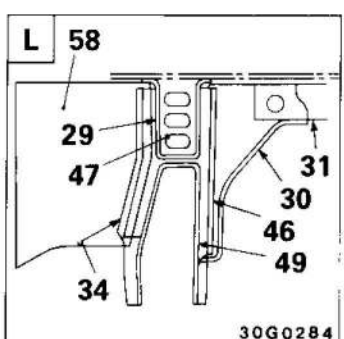
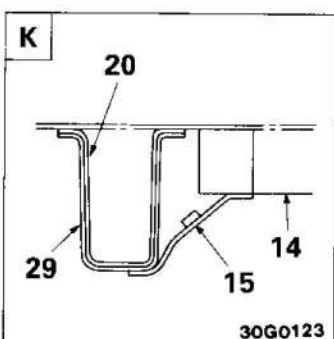
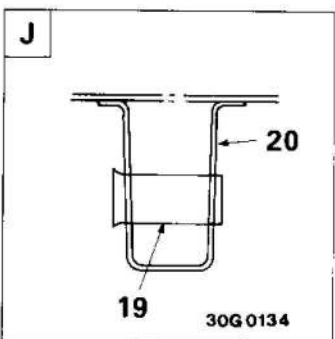
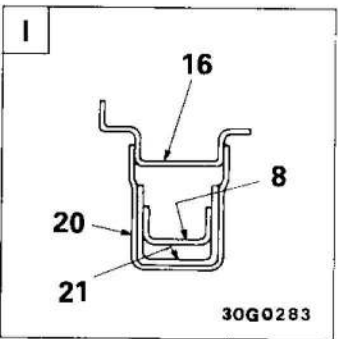
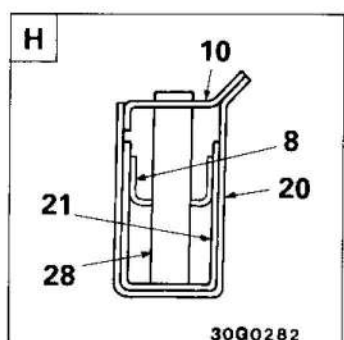
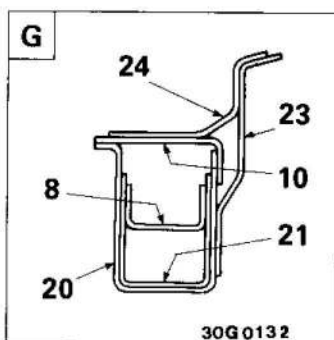
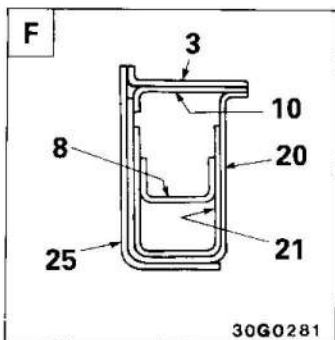
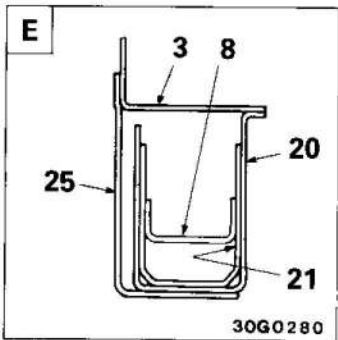
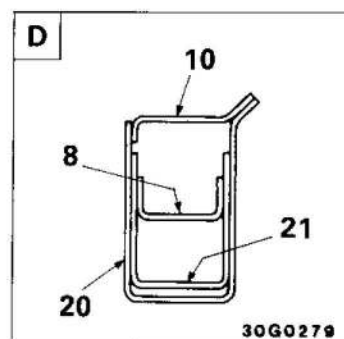
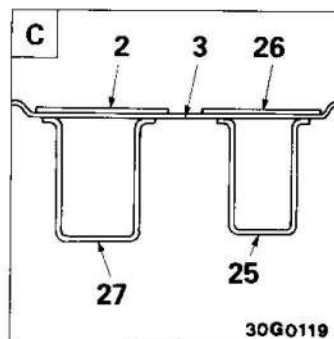
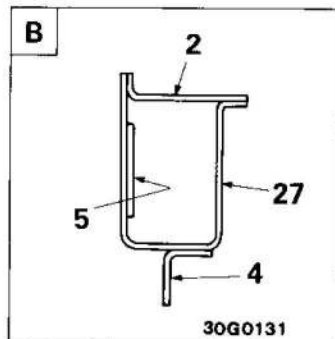
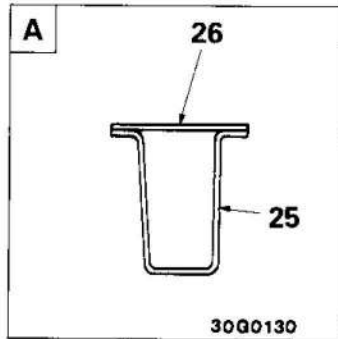
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|---|---|
| <ol style="list-style-type: none"> <li>1. Front end crossmember</li> <li>2. Front sidemember side extension (B)</li> <li>3. Front sidemember lower extension (B)</li> <li>4. Front sidemember (B)</li> <li>5. Cover panel (B)</li> <li>6. Front sidemember (A)</li> <li>7. Bevel gear box bracket</li> <li>8. Bevel gear box reinforcement</li> <li>9. Cover panel (C)</li> <li>10. Cover panel (A)</li> <li>11. Grille guard bracket (Mini-bus)</li> <li>12. Bulkhead (C)</li> <li>13. Front floor brace</li> <li>14. Cover panel (D)</li> <li>15. Crossmember No. 1</li> <li>16. Crossmember No. 2 support</li> <li>17. Crossmember No. 2</li> <li>18. Crossmember No. 3</li> <li>19. Crossmember No. 3 support</li> <li>20. Pipes</li> <li>21. Centre sidemember</li> <li>22. Centre sidemember reinforcement</li> <li>23. Front sidemember gusset, lower</li> <li>24. Front sidemember, lower, inner</li> <li>25. Front brace bracket</li> <li>26. Shield panel rear bracket</li> <li>27. Front sidemember rear gusset (B)</li> <li>28. Front sidemember rear gusset (A)</li> <li>29. Front damper reinforcement</li> <li>30. Upper arm plate</li> <li>31. Front sidemember plate, lower</li> <li>32. Front sidemember, lower, outer</li> <li>33. Front sidemember lower reinforcement</li> </ol> | <ol style="list-style-type: none"> <li>34. Bulkhead (B)</li> <li>35. Bulkhead (A)</li> <li>36. Front sidemember front gusset (A)</li> <li>37. Front sidemember lower reinforcement, front</li> <li>38. Front sidemember front gusset (B)</li> <li>39. Spring hanger support</li> <li>40. Crossmember No. 4</li> <li>41. Crossmember No. 5</li> <li>42. Crossmember No. 6</li> <li>43. Shackle hanger bracket, inner</li> <li>44. Rear end crossmember, inner</li> <li>45. Rear end crossmember, outer</li> <li>46. Under guard bracket</li> <li>47. Shackle hanger bracket</li> <li>48. Shackle hanger bracket, outer</li> <li>49. Shackle hanger pipe</li> <li>50. Muffler hanger pipe (R.H.)</li> <li>51. Damper pin</li> <li>52. Rear sidemember reinforcement (B)</li> <li>53. Rear sidemember reinforcement (A)</li> <li>54. Bump stopper bracket</li> <li>55. Bump stopper plate</li> <li>56. Spring hanger bracket, inner</li> <li>57. Bulkhead</li> <li>58. Spring hanger gusset (A)</li> <li>59. Spring hanger bracket</li> <li>60. Spring hanger gusset (B)</li> <li>61. Spring hanger bracket, outer</li> <li>62. Rear sidemember</li> <li>63. Transfer reinforcement</li> <li>64. Front brace</li> <li>65. Rear brace</li> <li>66. Third seat anchor reinforcement</li> </ol> |
|---|---|



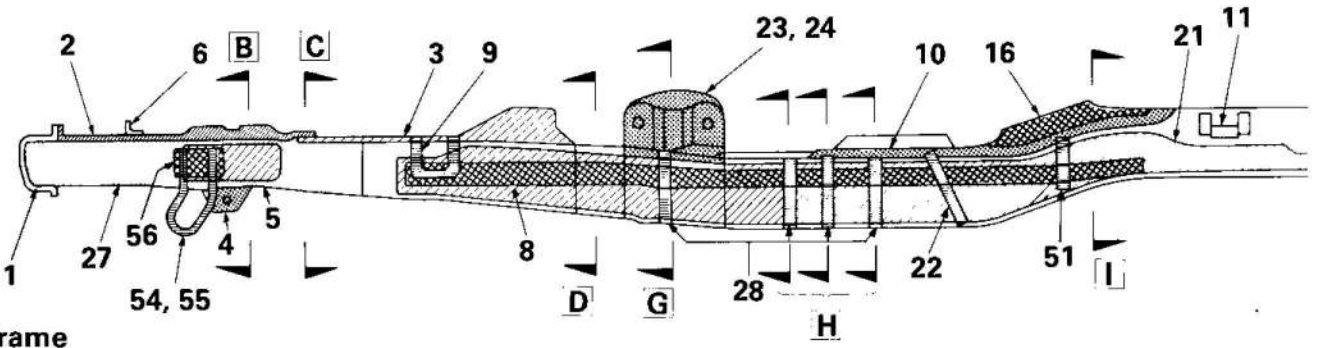
Long body vehicles (2WD)

Vehicles for Europe

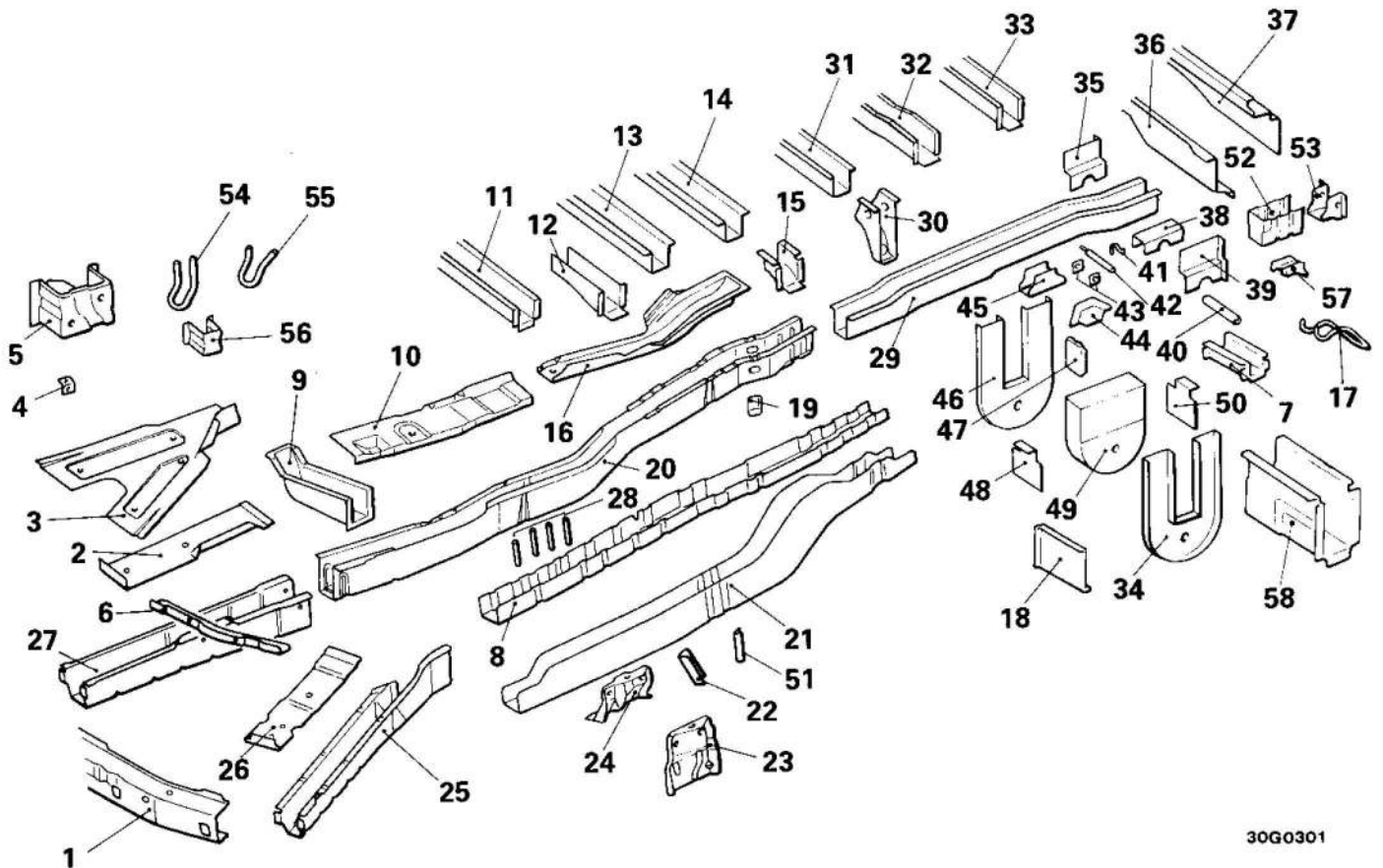
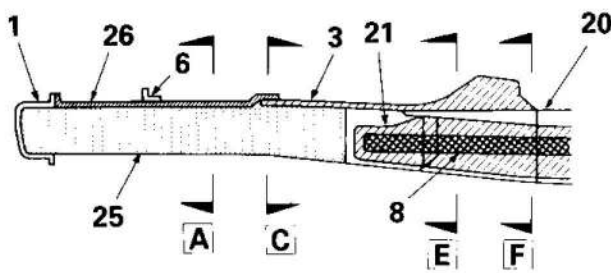
Vehicles for Australia (Vehicles built up to June, 1989)



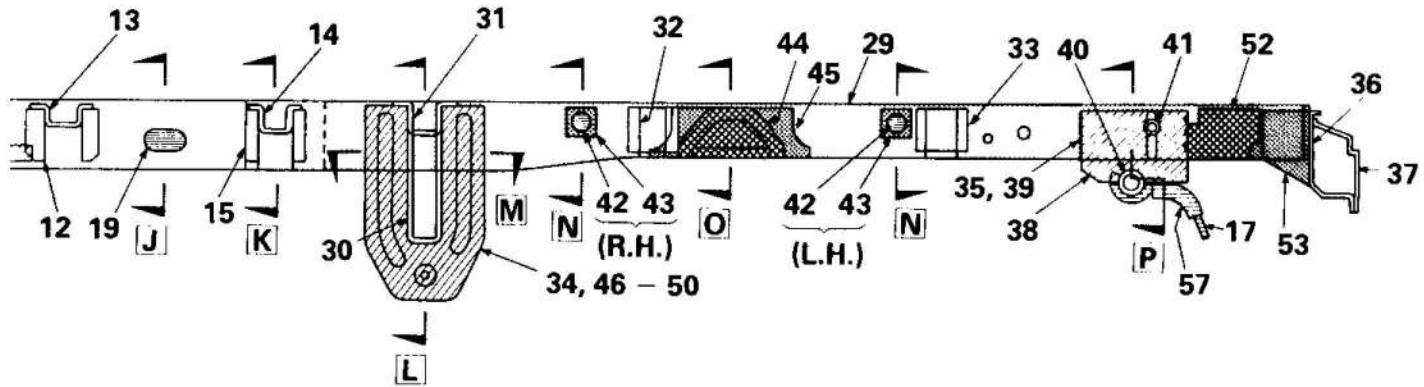
Main frame



Sub-frame



30G0301

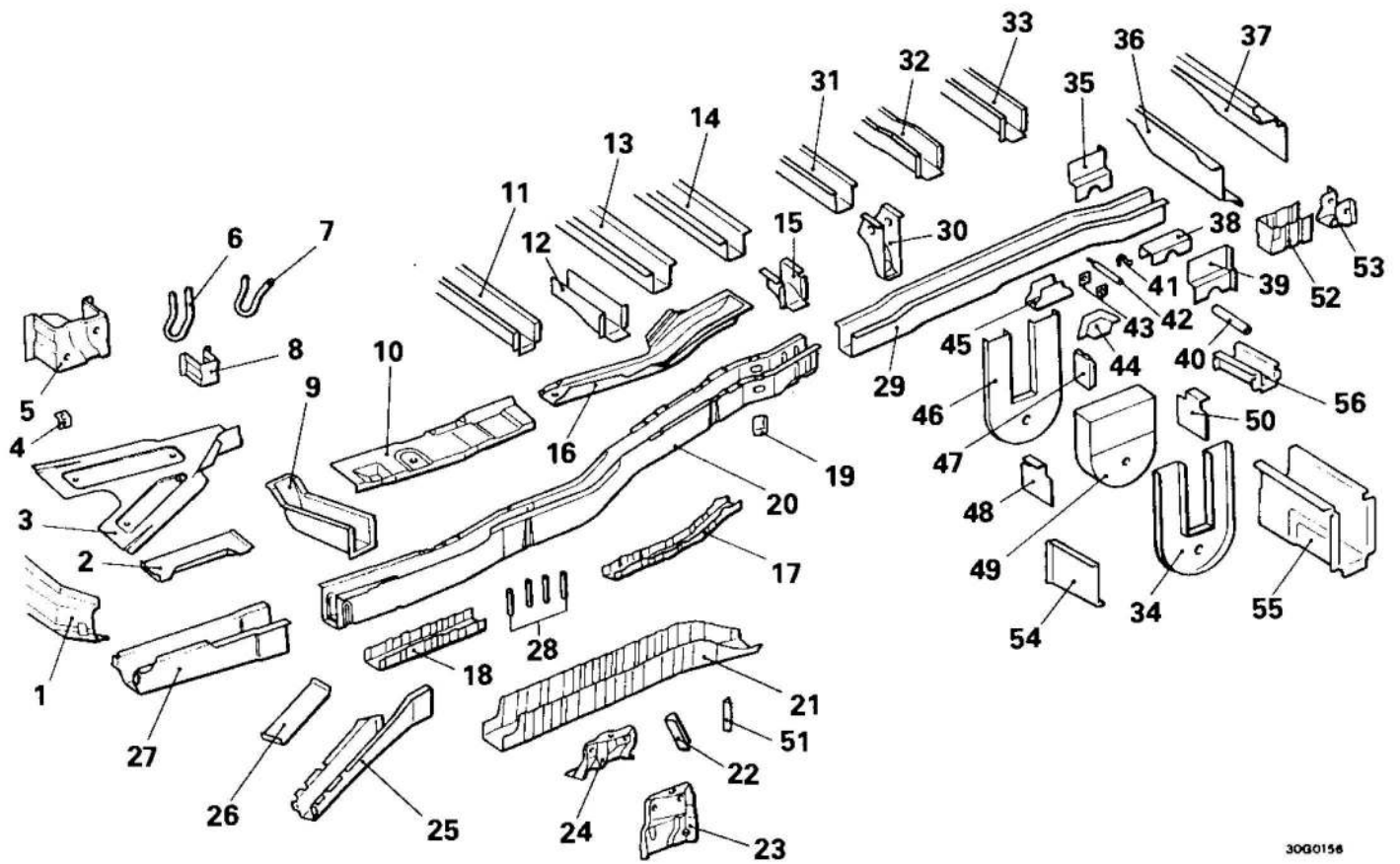
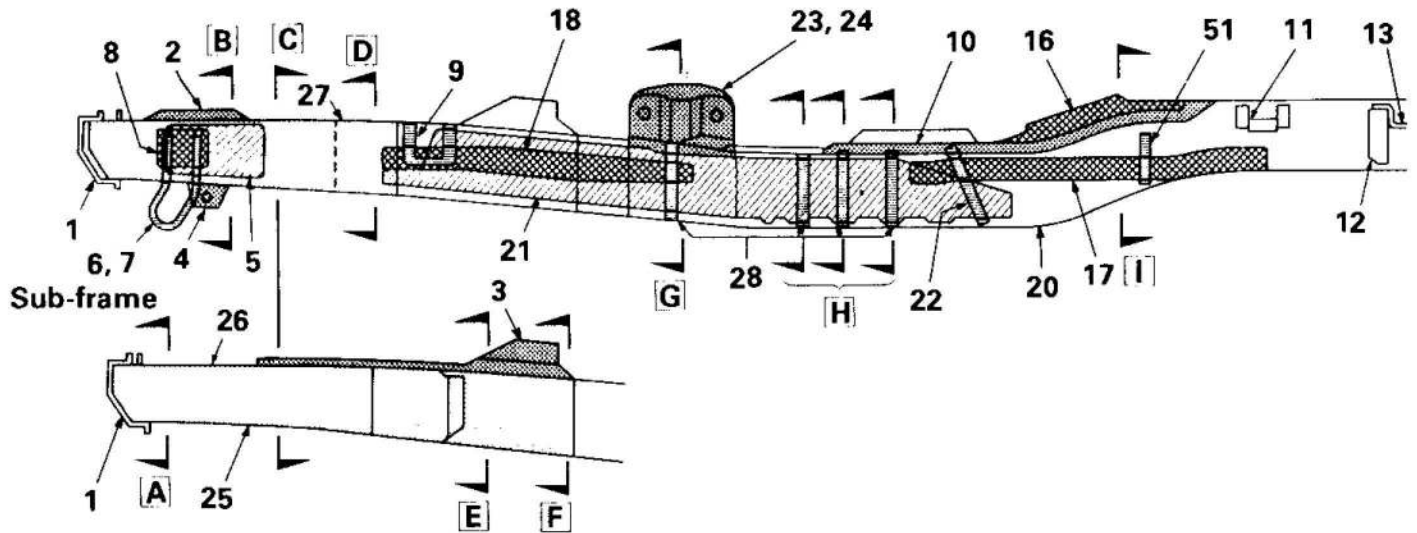


30G0297

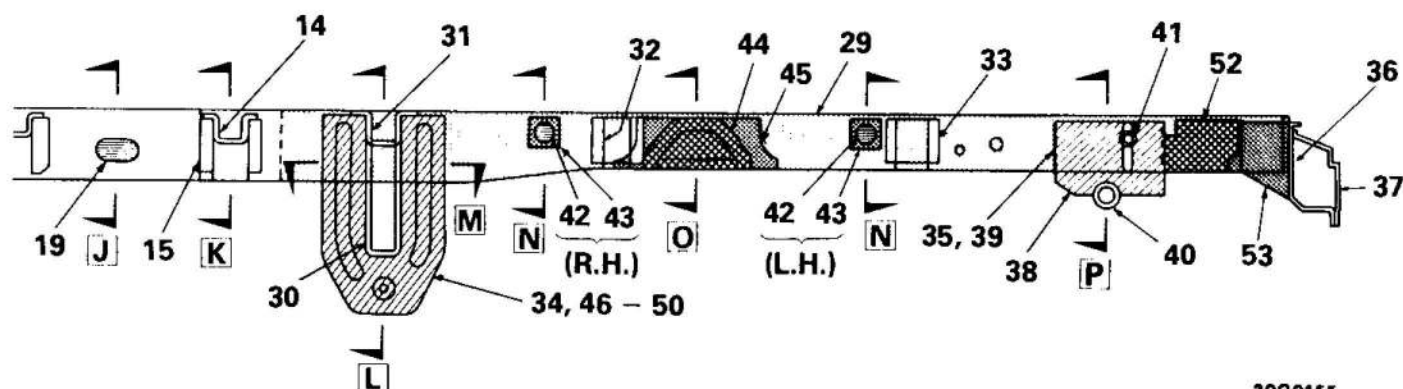
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|--|---------------------------------------|
| 1. Front end crossmember               | 30. Spring hanger support             |
| 2. Cover panel (A)                     | 31. Crossmember No. 4                 |
| 3. Cover panel (C)                     | 32. Crossmember No. 5                 |
| 4. Bevel gear box bracket              | 33. Crossmember No. 6                 |
| 5. Bevel gear box reinforcement        | 34. Spring hanger bracket, outer      |
| 6. Front frame extension, lower        | 35. Shackle hanger bracket, inner     |
| 7. Rear brace (C)                      | 36. Rear end crossmember, inner       |
| 8. Front sidemember reinforcement (B)  | 37. Rear end crossmember, outer       |
| 9. Front floor brace                   | 38. Shackle hanger bracket            |
| 10. Cover panel (D)                    | 39. Shackle hanger bracket, outer     |
| 11. Crossmember No. 1                  | 40. Shackle hanger pipe               |
| 12. Crossmember No. 2 support          | 41. Muffler hanger pipe (R.H.)        |
| 13. Crossmember No. 2                  | 42. Damper pin                        |
| 14. Crossmember No. 3                  | 43. Rear sidemember reinforcement (B) |
| 15. Crossmember No. 3 support          | 44. Bump stopper bracket              |
| 16. Cover panel (E)                    | 45. Rear sidemember reinforcement (A) |
| 17. Rear hook (L.H.)                   | 46. Spring hanger bracket, inner      |
| 18. Rear brace (A)                     | 47. Bulkhead                          |
| 19. Pipe                               | 48. Spring hanger gusset (A)          |
| 20. Centre sidemember                  | 49. Spring hanger bracket             |
| 21. Front sidemember reinforcement (A) | 50. Spring hanger gusset (B)          |
| 22. Shield panel rear bracket          | 51. Front brace bracket               |
| 23. Upper arm bracket                  | 52. Hitch member reinforcement        |
| 24. Upper arm bracket reinforcement    | 53. Rear sidemember support           |
| 25. Front sidemember (B)               | 54. Front hook                        |
| 26. Cover panel (B)                    | 55. Front hook                        |
| 27. Front sidemember (A)               | 56. Front hook reinforcement          |
| 28. Pipes                              | 57. Rear hook bracket (L.H.)          |
| 29. Rear sidemember                    | 58. Rear brace (B)                    |

Long body vehicles (2WD)  
Vehicles for General Export

Main frame

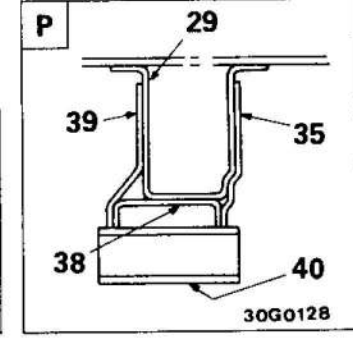
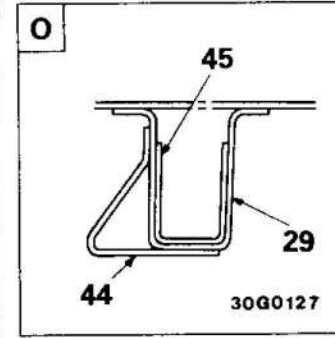
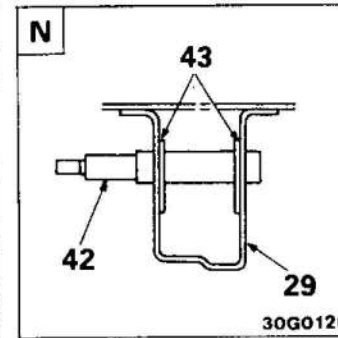
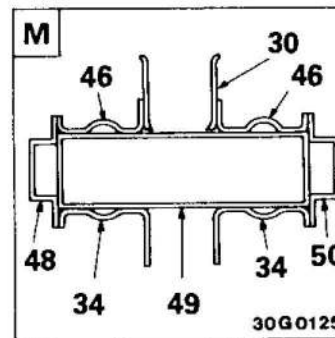
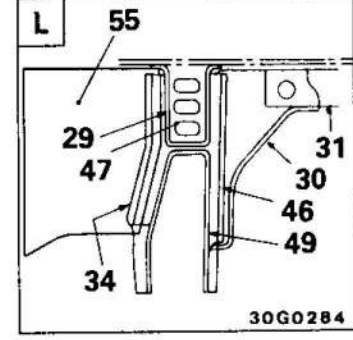
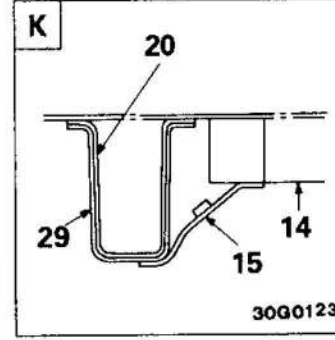
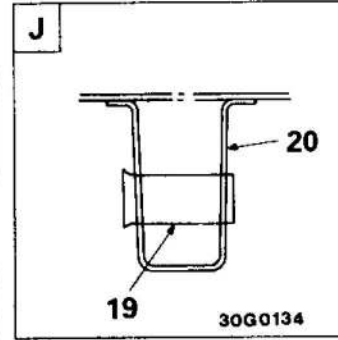
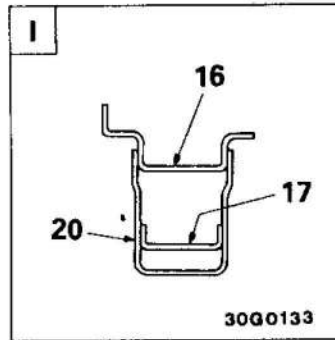
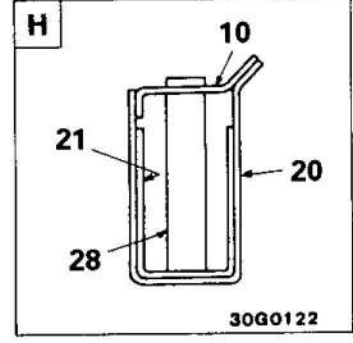
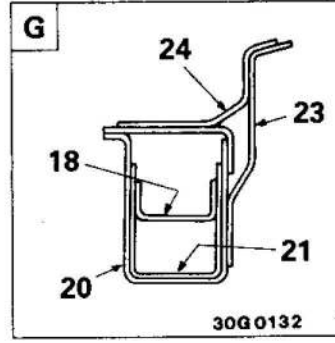
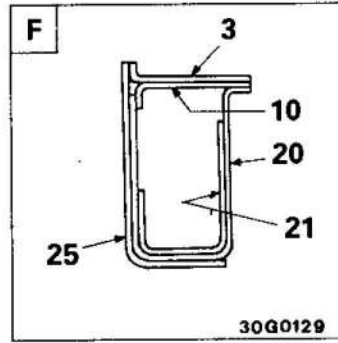
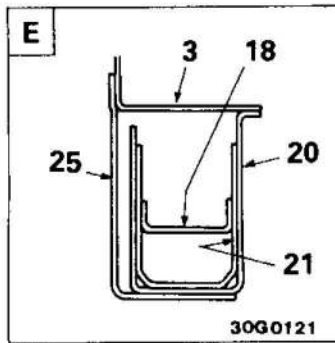
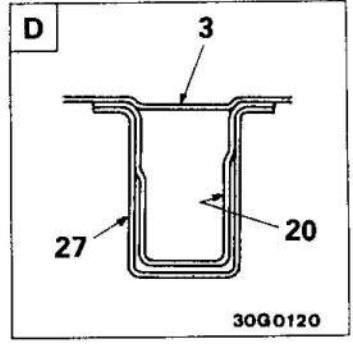
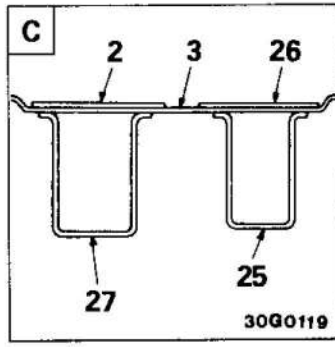
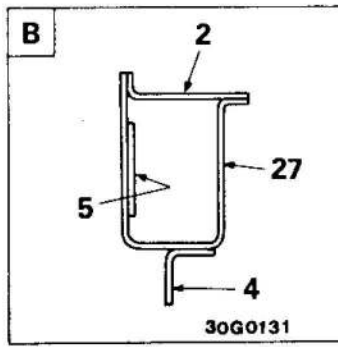
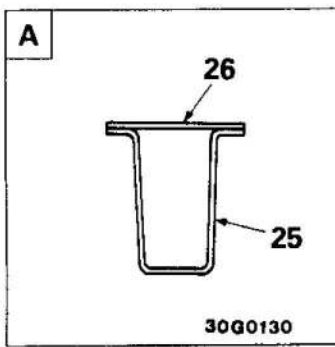


30G0156



30G0155

- |  |                                       |
|--|---------------------------------------|
| 1. Front end crossmember               | 29. Rear sidemember                   |
| 2. Cover panel (A)                     | 30. Spring hanger support             |
| 3. Cover panel (C)                     | 31. Crossmember No. 4                 |
| 4. Bevel gear box bracket              | 32. Crossmember No. 5                 |
| 5. Bevel gear box reinforcement        | 33. Crossmember No. 6                 |
| 6. Front hook                          | 34. Spring hanger bracket, outer      |
| 7. Front hook                          | 35. Shackle hanger bracket, inner     |
| 8. Front hook reinforcement            | 36. Rear end crossmember, inner       |
| 9. Front floor brace                   | 37. Rear end crossmember, outer       |
| 10. Cover panel (D)                    | 38. Shackle hanger bracket            |
| 11. Crossmember No. 1                  | 39. Shackle hanger bracket, outer     |
| 12. Crossmember No. 2 support          | 40. Shackle hanger pipe               |
| 13. Crossmember No. 2                  | 41. Muffler hanger pipe (R.H.)        |
| 14. Crossmember No. 3                  | 42. Damper pin                        |
| 15. Crossmember No. 3 support          | 43. Rear sidemember reinforcement (B) |
| 16. Cover panel (E)                    | 44. Bump stopper bracket              |
| 17. Front sidemember reinforcement (C) | 45. Rear sidemember reinforcement (A) |
| 18. Front sidemember reinforcement (A) | 46. Spring hanger bracket, inner      |
| 19. Pipe                               | 47. Bulkhead                          |
| 20. Centre sidemember                  | 48. Spring hanger gusset (A)          |
| 21. Front sidemember reinforcement (B) | 49. Spring hanger bracket             |
| 22. Shield panel rear bracket          | 50. Spring hanger gusset (B)          |
| 23. Upper arm bracket                  | 51. Front brace bracket               |
| 24. Upper arm bracket reinforcement    | 52. Hitch member reinforcement        |
| 25. Front sidemember (B)               | 53. Rear sidemember support           |
| 26. Cover panel (B)                    | 54. Rear brace (A)                    |
| 27. Front sidemember (A)               | 55. Rear brace (B)                    |
| 28. Pipes                              | 56. Rear brace (C)                    |

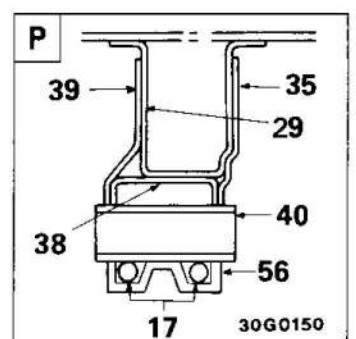
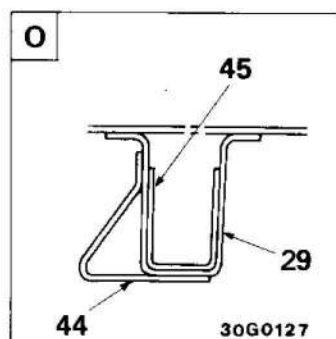
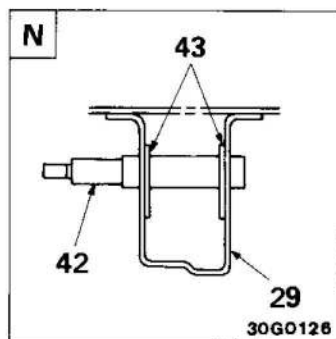
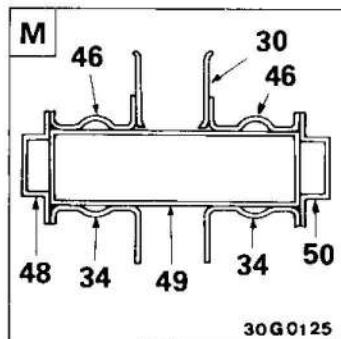
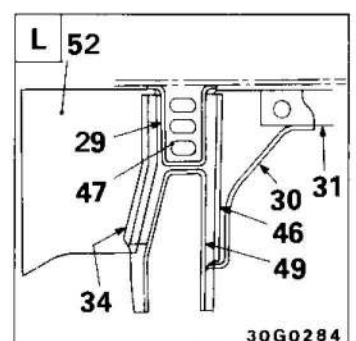
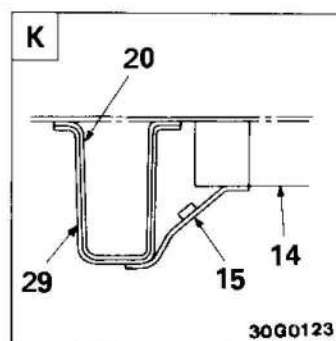
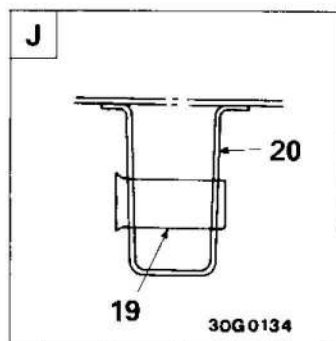
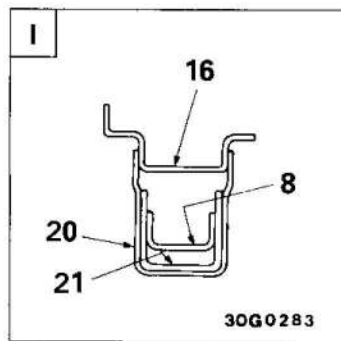
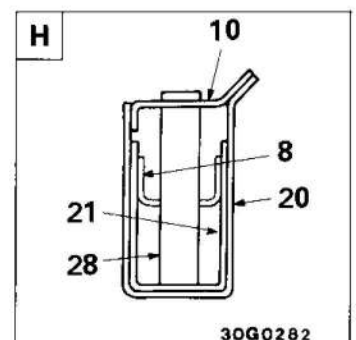
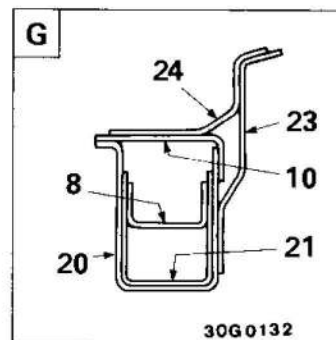
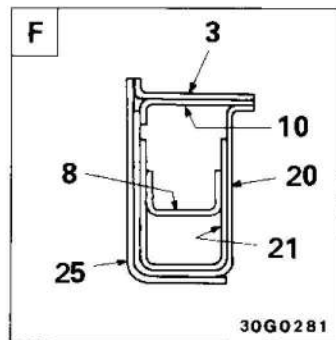
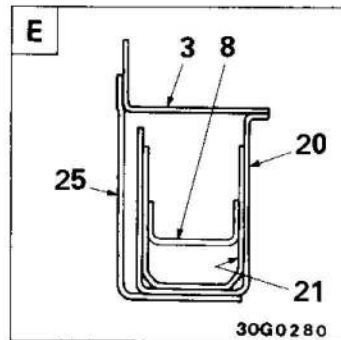
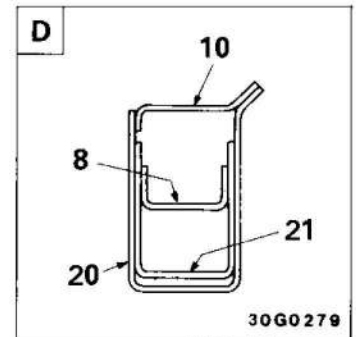
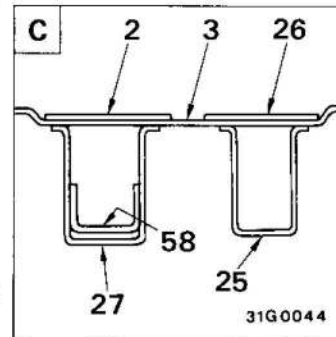
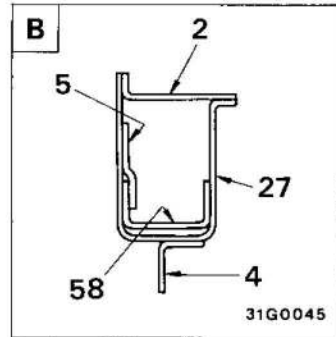
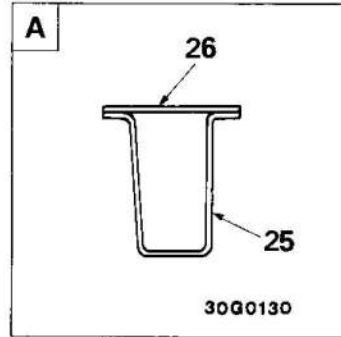




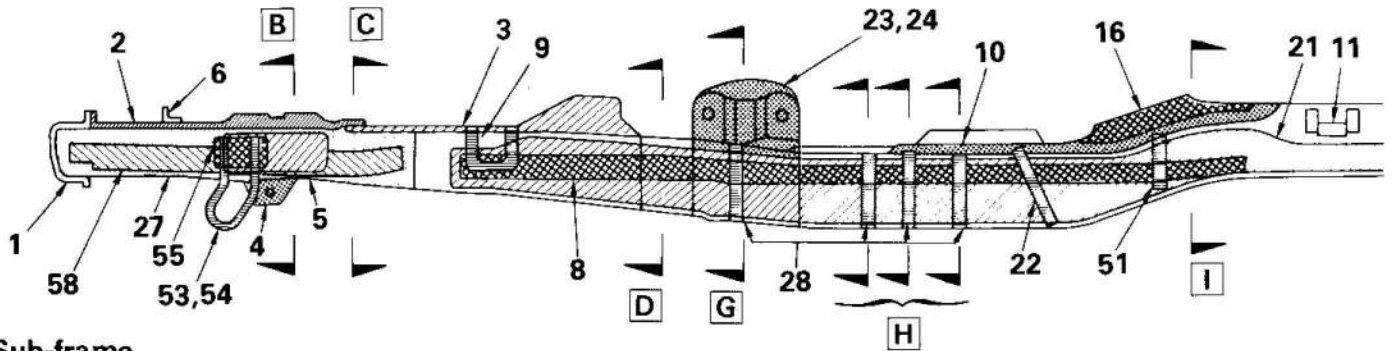
**BODY FRAME REINFORCEMENTS**

Standard body vehicles (2WD)

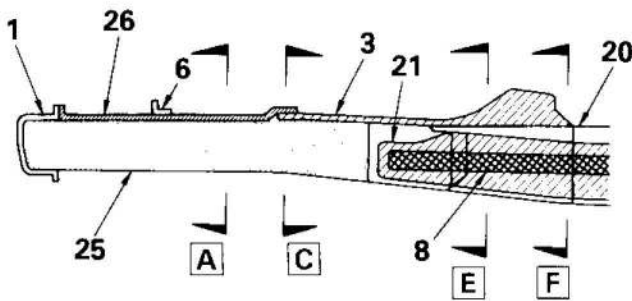
Vehicles for Australia (Vehicles built from May, 1989)



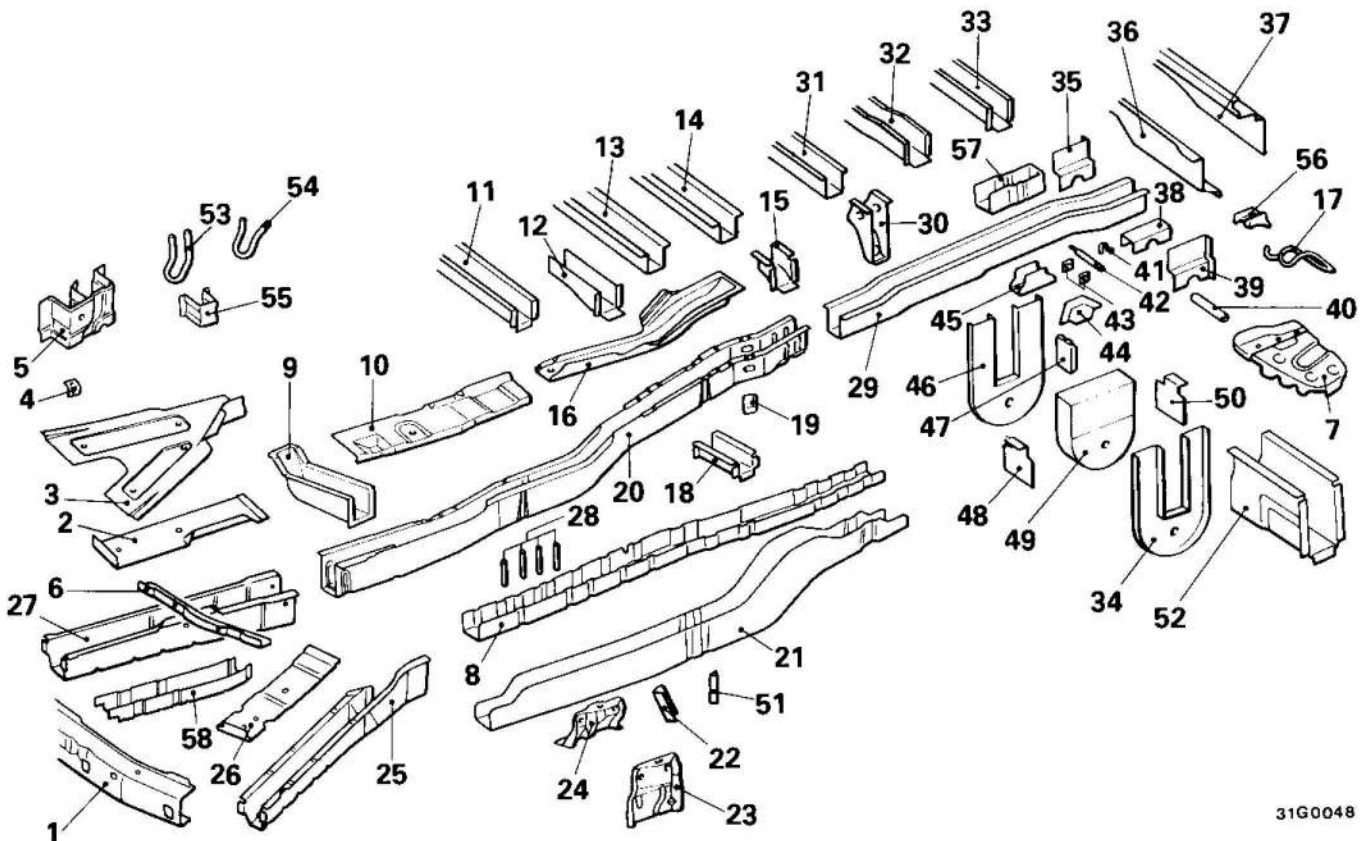
Main frame



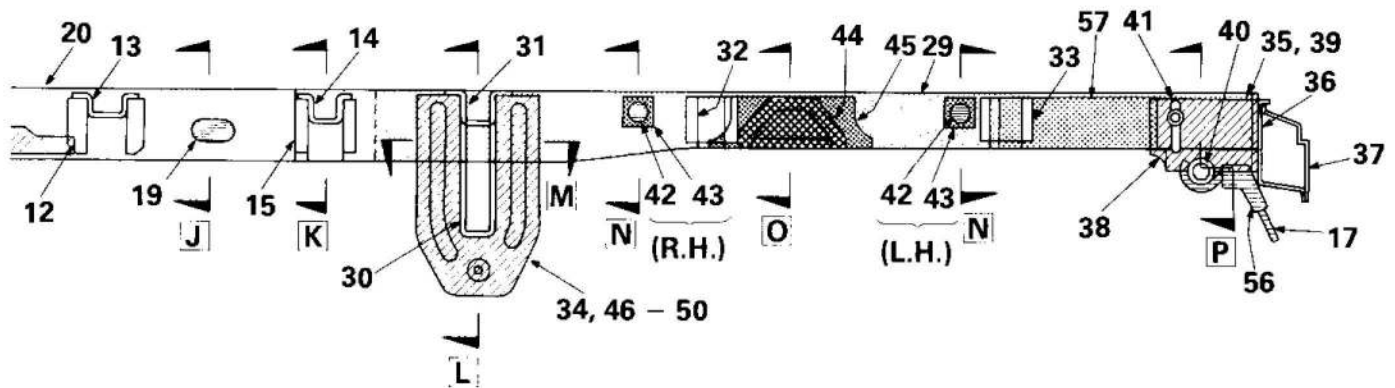
Sub-frame



31G0046



31G0048

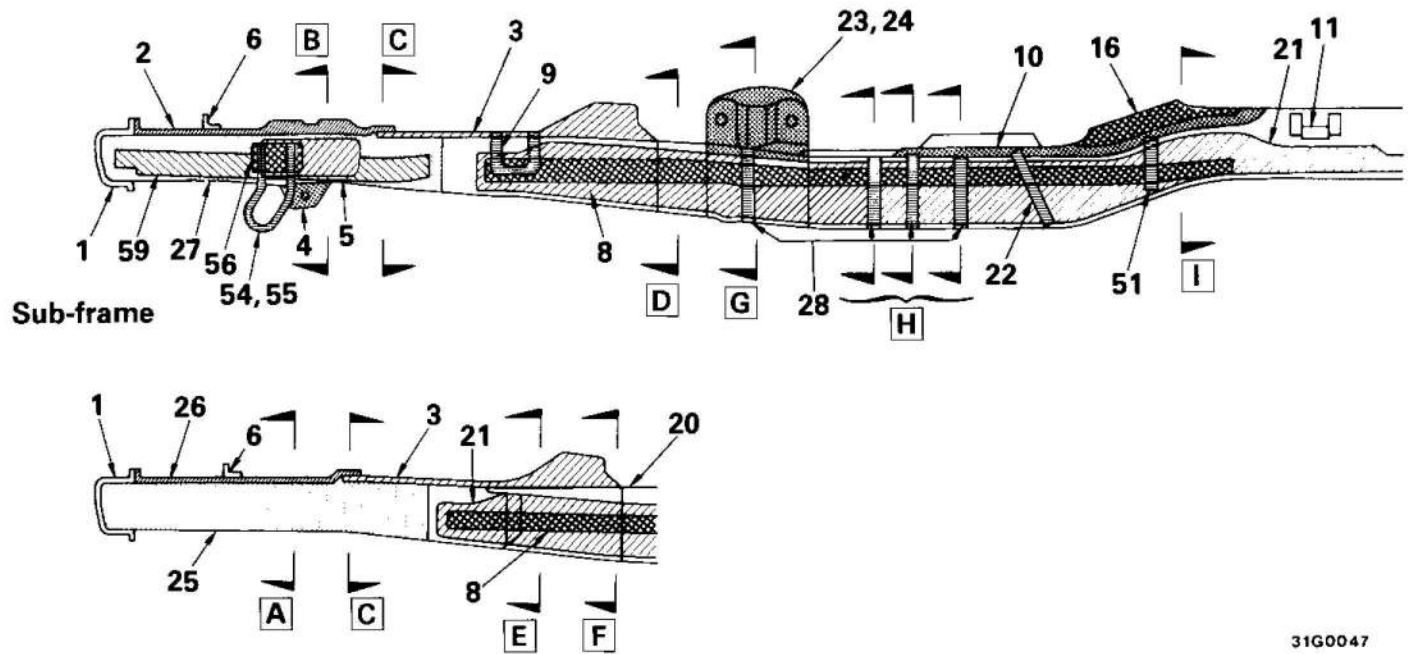


- |  |                                       |
|--|---------------------------------------|
| 1. Front end crossmember               | 30. Spring hanger support             |
| 2. Cover panel (A)                     | 31. Crossmember No. 4                 |
| 3. Cover panel (C)                     | 32. Crossmember No. 5                 |
| 4. Bevel gear box bracket              | 33. Crossmember No. 6                 |
| 5. Bevel gear box reinforcement        | 34. Spring hanger bracket, outer      |
| 6. Front frame extension, lower        | 35. Shackle hanger bracket, inner     |
| 7. Third seat anchor reinforcement     | 36. Rear end crossmember, inner       |
| 8. Front sidemember reinforcement (B)  | 37. Rear end crossmember, outer       |
| 9. Front floor brace                   | 38. Shackle hanger bracket            |
| 10. Cover panel (D)                    | 39. Shackle hanger bracket, outer     |
| 11. Crossmember No. 1                  | 40. Shackle hanger pipe               |
| 12. Crossmember No. 2 support          | 41. Muffler hanger pipe (R.H.)        |
| 13. Crossmember No. 2                  | 42. Damper pin                        |
| 14. Crossmember No. 3                  | 43. Rear sidemember reinforcement (B) |
| 15. Crossmember No. 3 support          | 44. Bump stopper bracket              |
| 16. Cover panel (E)                    | 45. Rear sidemember reinforcement (A) |
| 17. Rear hook (L.H.)                   | 46. Spring hanger bracket, inner      |
| 18. Front brace                        | 47. Bulkhead                          |
| 19. Pipe                               | 48. Spring hanger gusset (A)          |
| 20. Centre sidemember                  | 49. Spring hanger bracket             |
| 21. Front sidemember reinforcement (A) | 50. Spring hanger gusset (B)          |
| 22. Shield panel rear bracket          | 51. Front brace bracket               |
| 23. Upper arm bracket                  | 52. Rear brace                        |
| 24. Upper arm bracket reinforcement    | 53. Front hock                        |
| 25. Front sidemember (B)               | 54. Front hook                        |
| 26. Cover panel (B)                    | 55. Front hook reinforcement          |
| 27. Front sidemember (A)               | 56. Rear hook bracket (L.H.)          |
| 28. Pipes                              | 57. Hitch member reinforcement        |
| 29. Rear sidemember                    | 58. Sidemember reinforcement (A)      |

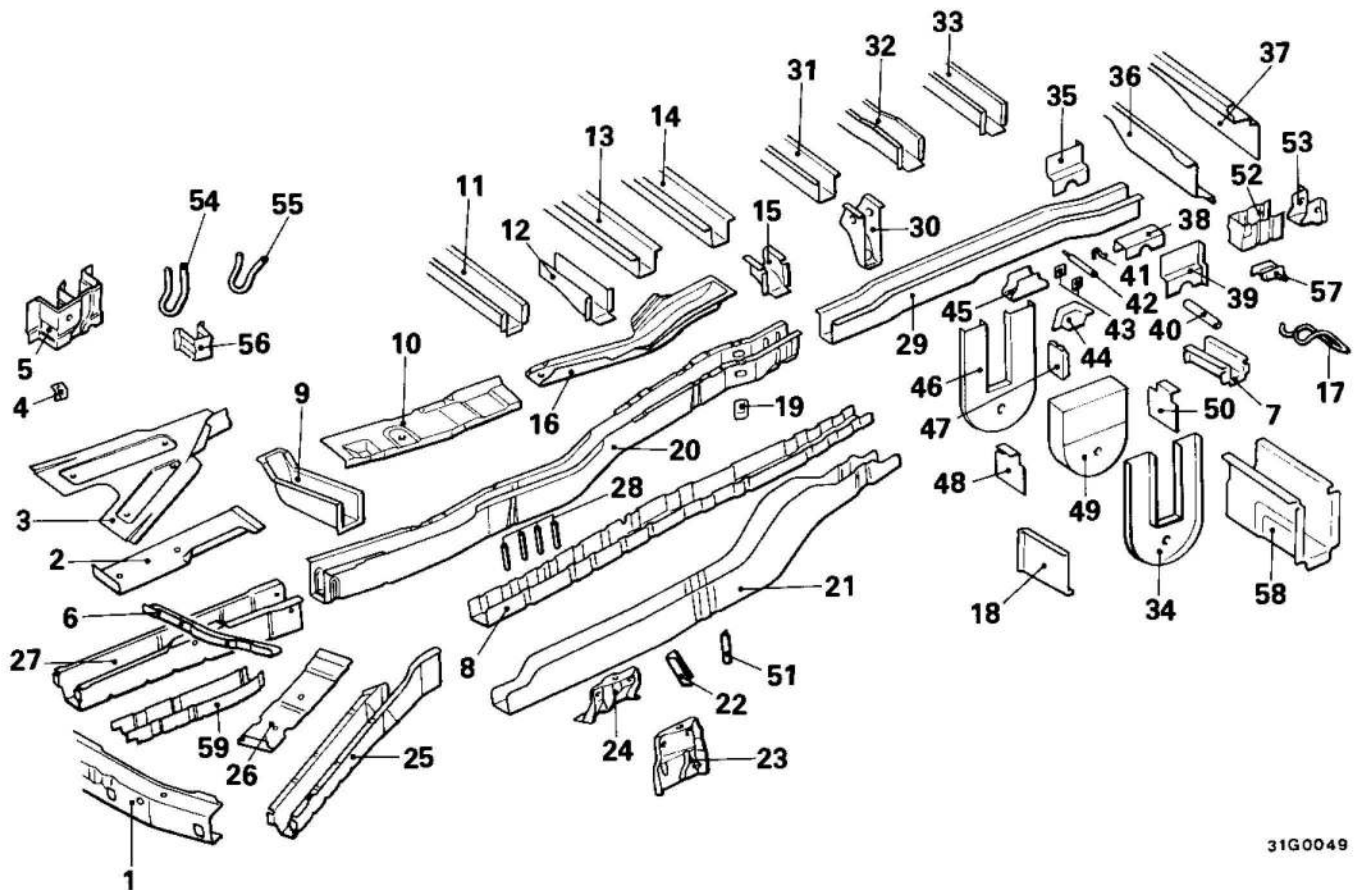
Long body vehicles (2WD)

Vehicles for Australia (Vehicles built from May, 1989)

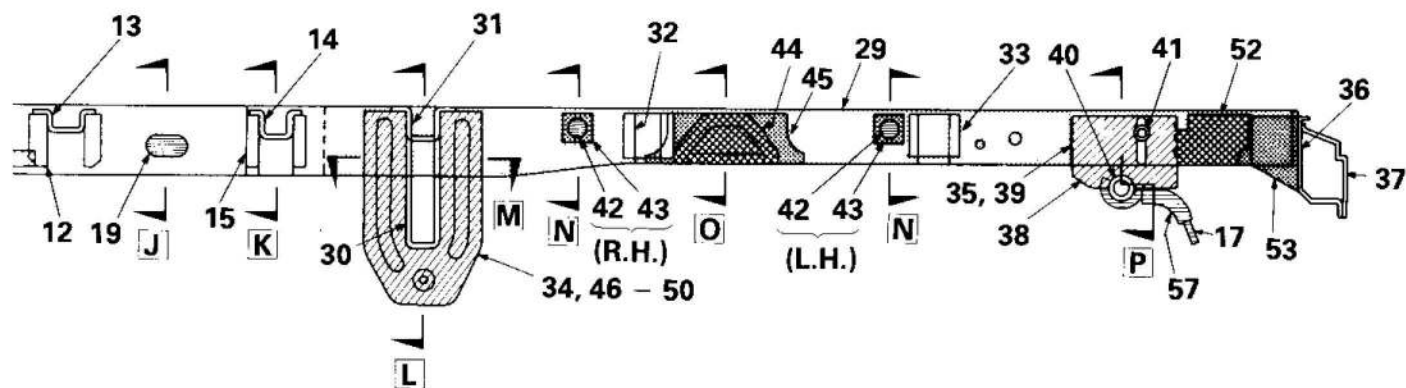
Main frame



31G0047

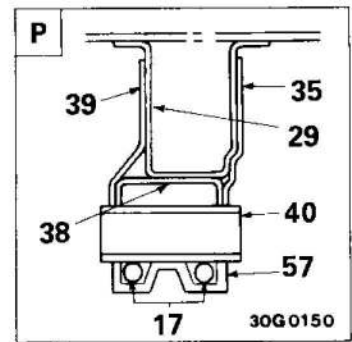
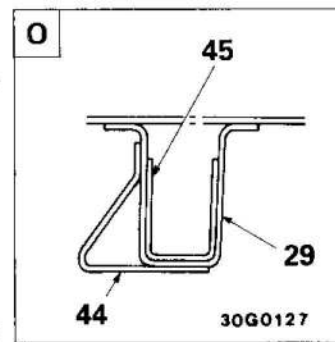
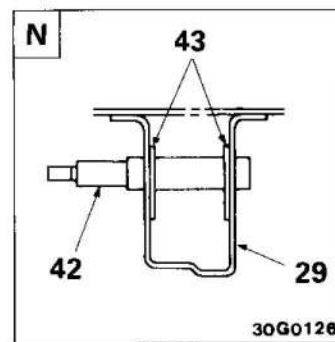
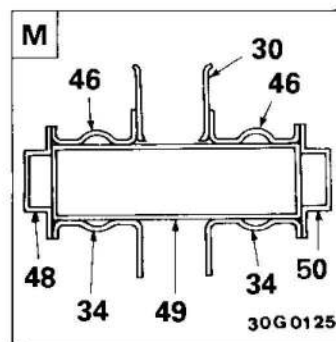
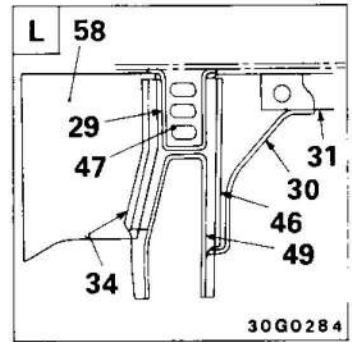
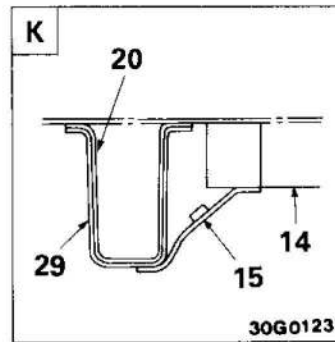
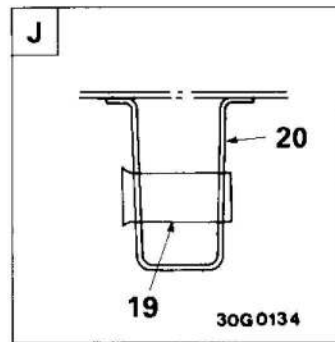
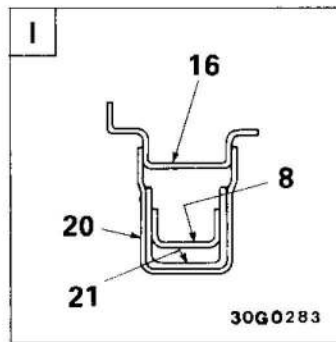
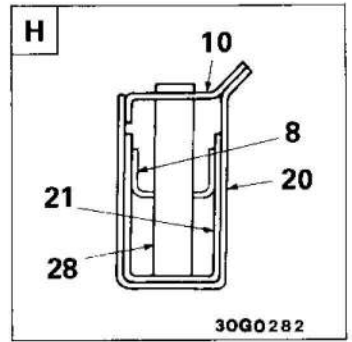
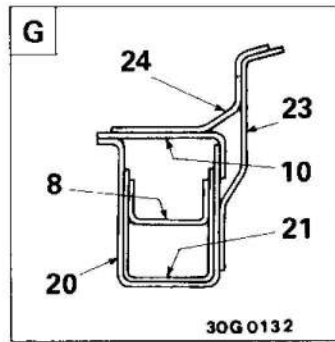
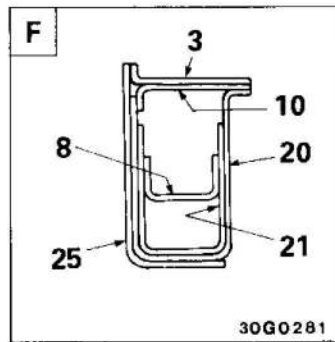
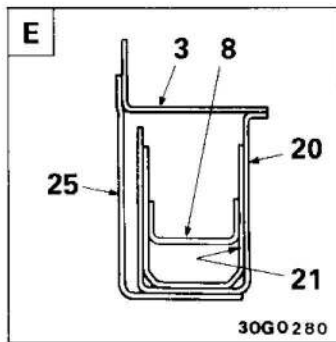
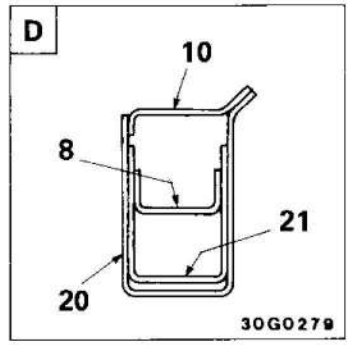
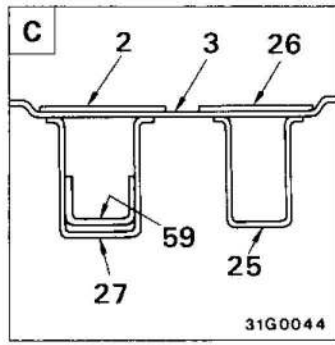
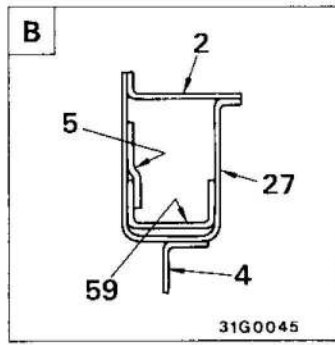
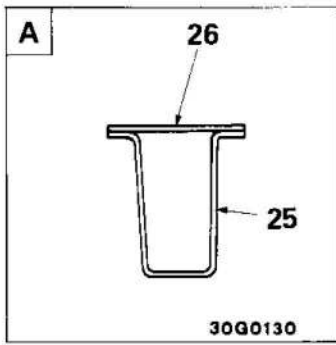


31G0049

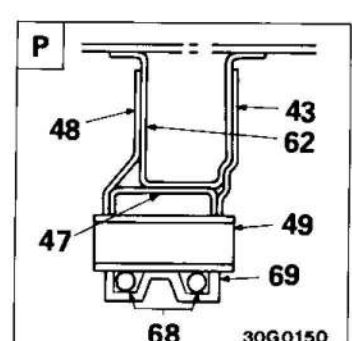
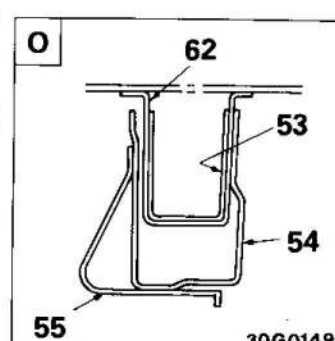
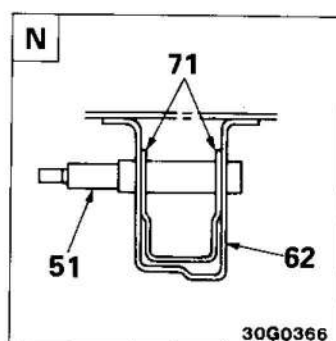
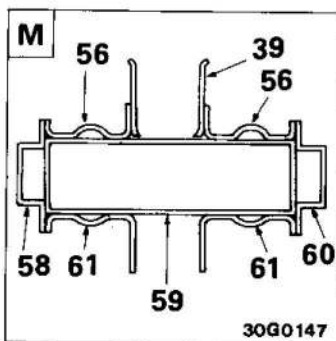
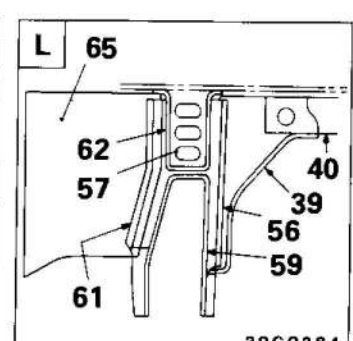
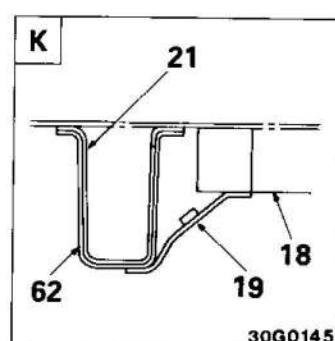
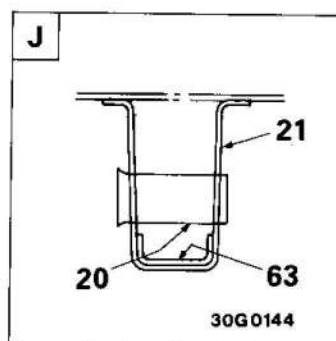
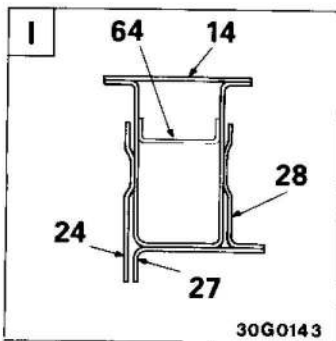
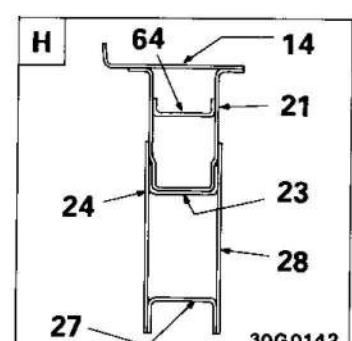
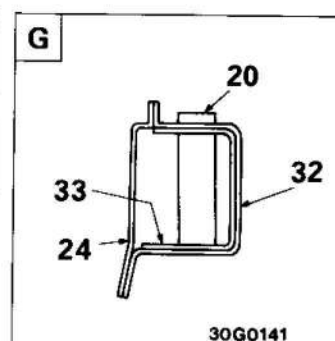
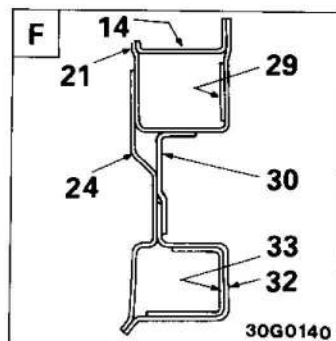
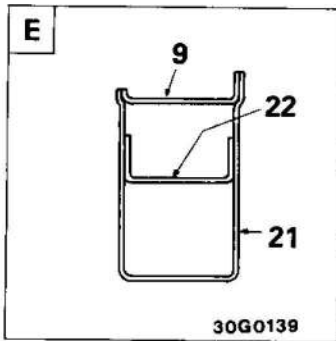
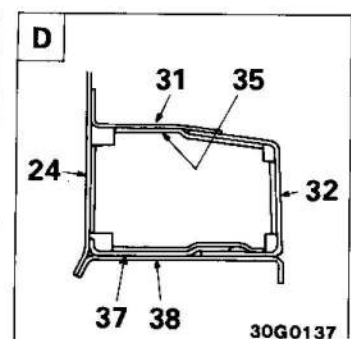
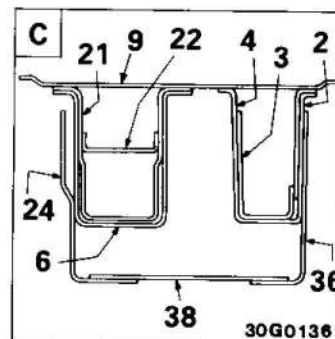
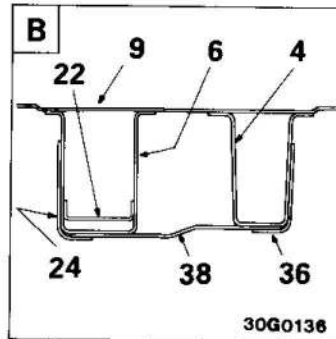
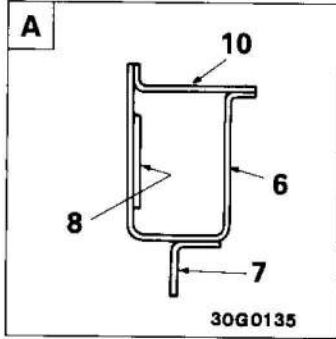


30G0297

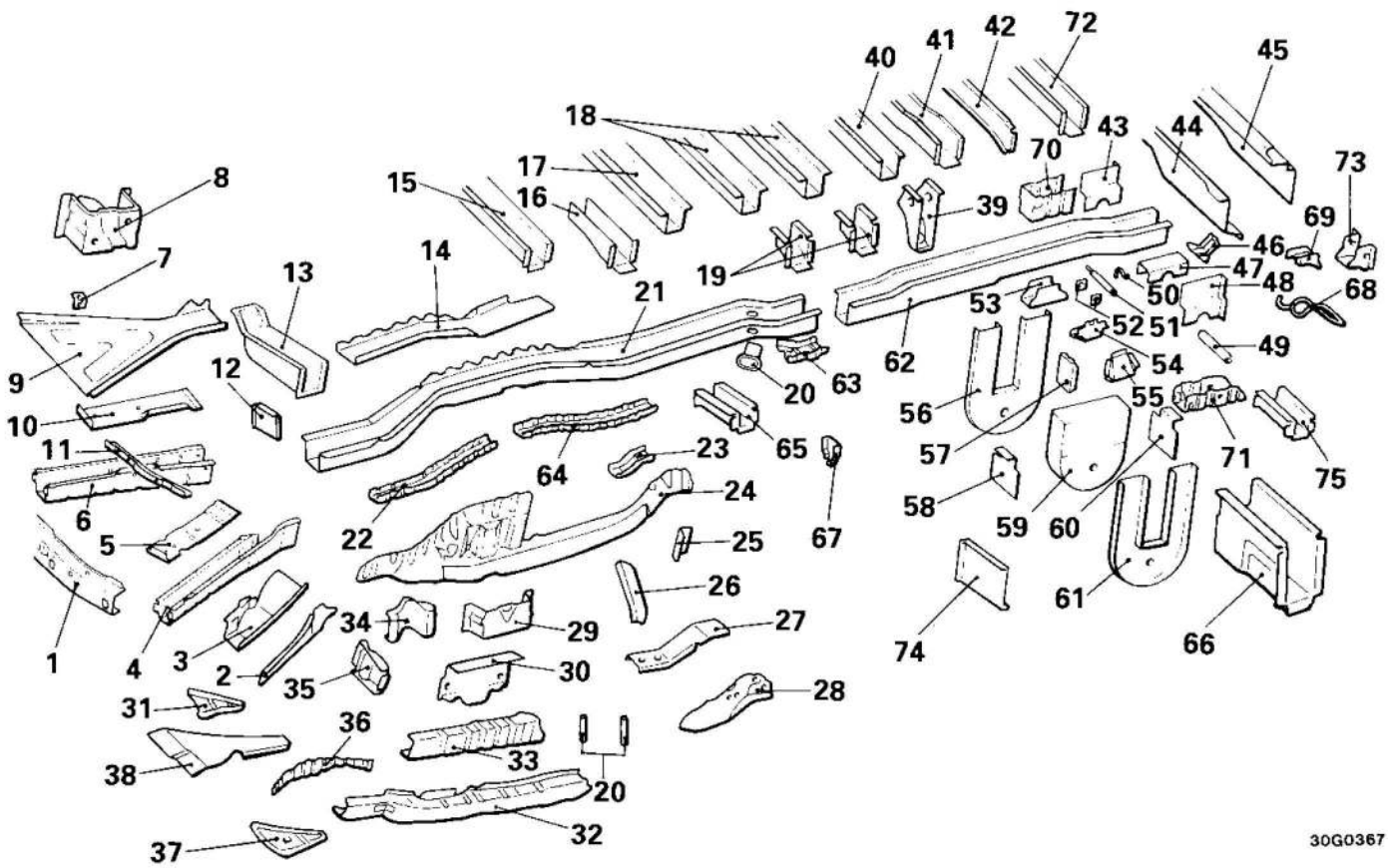
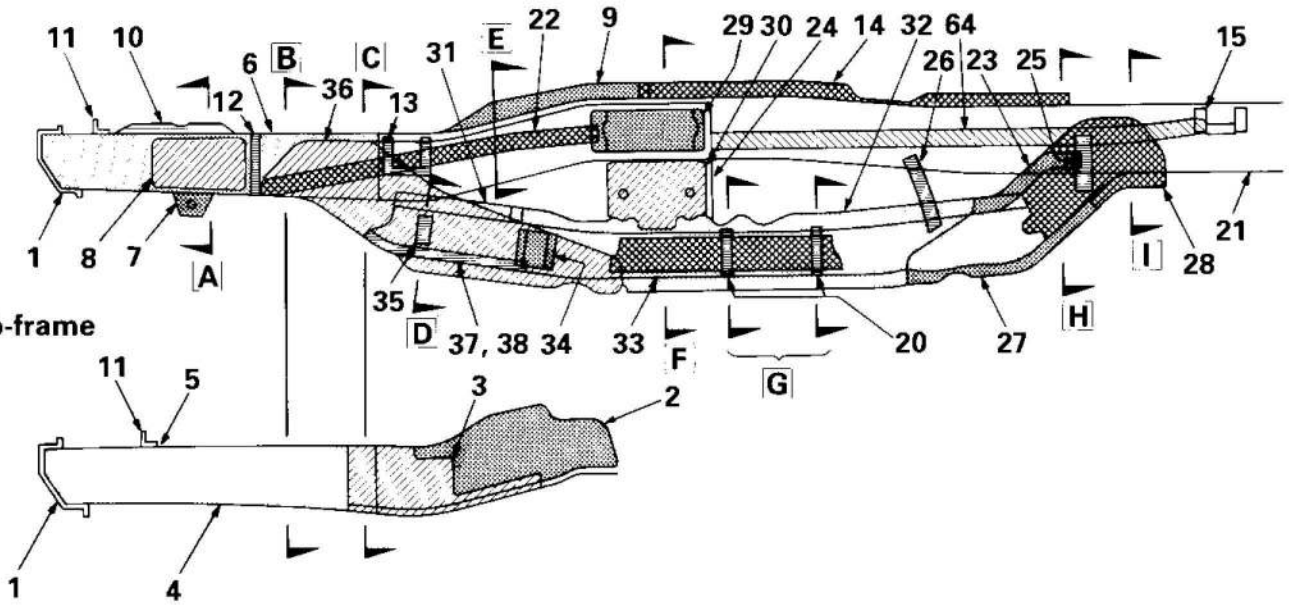
- |  |                                       |
|--|---------------------------------------|
| 1. Front end crossmember               | 30. Spring hanger support             |
| 2. Cover panel (A)                     | 31. Crossmember No. 4                 |
| 3. Cover panel (C)                     | 32. Crossmember No. 5                 |
| 4. Bevel gear box bracket              | 33. Crossmember No. 6                 |
| 5. Bevel gear box reinforcement        | 34. Spring hanger bracket, outer      |
| 6. Front frame extension, lower        | 35. Shackle hanger bracket, inner     |
| 7. Rear brace (C)                      | 36. Rear end crossmember, inner       |
| 8. Front sidemember reinforcement (B)  | 37. Rear end crossmember, outer       |
| 9. Front floor brace                   | 38. Shackle hanger bracket            |
| 10. Cover panel (D)                    | 39. Shackle hanger bracket, outer     |
| 11. Crossmember No. 1                  | 40. Shackle hanger pipe               |
| 12. Crossmember No. 2 support          | 41. Muffler hanger pipe (R.H.)        |
| 13. Crossmember No. 2                  | 42. Damper pin                        |
| 14. Crossmember No. 3                  | 43. Rear sidemember reinforcement (B) |
| 15. Crossmember No. 3 support          | 44. Bump stopper bracket              |
| 16. Cover panel (E)                    | 45. Rear sidemember reinforcement (A) |
| 17. Rear hook (L.H.)                   | 46. Spring hanger bracket, inner      |
| 18. Rear brace (A)                     | 47. Bulkhead                          |
| 19. Pipe                               | 48. Spring hanger gusset (A)          |
| 20. Centre sidemember                  | 49. Spring hanger bracket             |
| 21. Front sidemember reinforcement (A) | 50. Spring hanger gusset (B)          |
| 22. Shield panel rear bracket          | 51. Front brace bracket               |
| 23. Upper arm bracket                  | 52. Hitch member reinforcement        |
| 24. Upper arm bracket reinforcement    | 53. Rear sidemember support           |
| 25. Front sidemember (B)               | 54. Front hook                        |
| 26. Cover panel (B)                    | 55. Front hook                        |
| 27. Front sidemember (A)               | 56. Front hook reinforcement          |
| 28. Pipes                              | 57. Rear hook bracket (L.H.)          |
| 29. Rear sidemember                    | 58. Rear brace (B)                    |
|  | 59. Sidemember reinforcement (A)      |



Long body vehicles (4WD)  
Vehicles for Europe

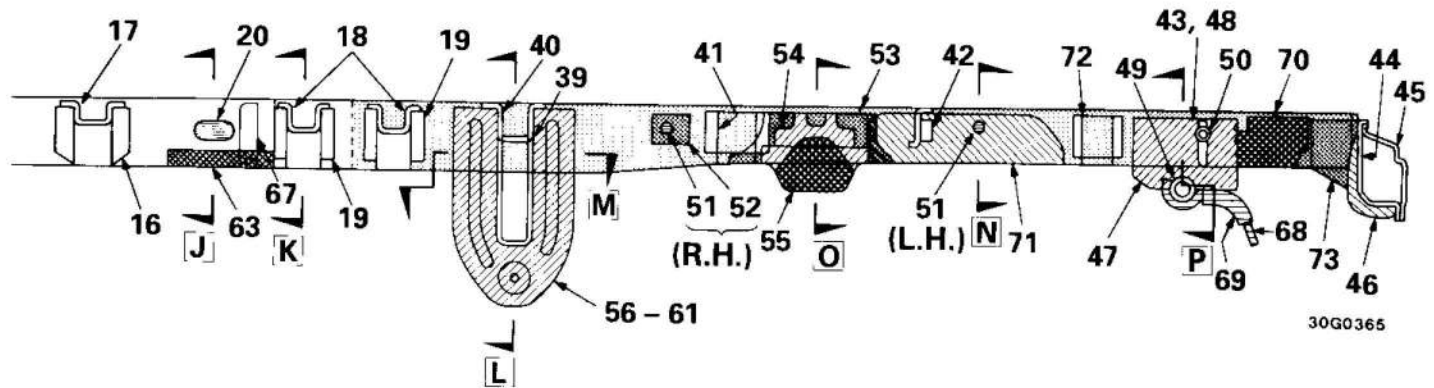


Main frame



30G0367





30G0365

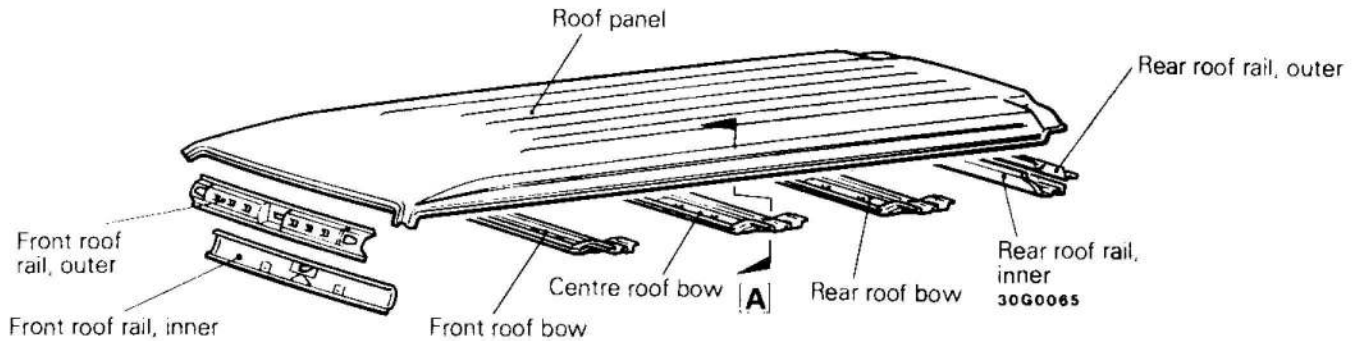
- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. Front end crossmember</li> <li>2. Front sidemember side extension (B)</li> <li>3. Front sidemember lower extension (B)</li> <li>4. Front sidemember (B)</li> <li>5. Cover panel (B)</li> <li>6. Front sidemember (A)</li> <li>7. Bevel gear box bracket</li> <li>8. Bevel gear box reinforcement</li> <li>9. Cover panel (C)</li> <li>10. Cover panel (A)</li> <li>11. Front frame extension, lower</li> <li>12. Bulkhead (C)</li> <li>13. Front floor brace</li> <li>14. Cover panel (D)</li> <li>15. Crossmember No. 1</li> <li>16. Crossmember No. 2 support</li> <li>17. Crossmember No. 2</li> <li>18. Crossmember No. 3</li> <li>19. Crossmember No. 3 support</li> <li>20. Pipes</li> <li>21. Centre sidemember</li> <li>22. Centre sidemember reinforcement (A)</li> <li>23. Front sidemember gusset, lower</li> <li>24. Front sidemember, lower, inner</li> <li>25. Front brace bracket</li> <li>26. Shield panel rear bracket</li> <li>27. Front sidemember rear gusset (B)</li> <li>28. Front sidemember rear gusset (A)</li> <li>29. Front damper reinforcement</li> <li>30. Upper arm plate</li> <li>31. Front sidemember plate, lower</li> <li>32. Front sidemember, lower, outer</li> <li>33. Front sidemember lower reinforcement</li> <li>34. Bulkhead (B)</li> <li>35. Bulkhead (A)</li> <li>36. Front sidemember front gusset (A)</li> <li>37. Front sidemember lower reinforcement, front</li> <li>38. Front sidemember front gusset (B)</li> </ol> | <ol style="list-style-type: none"> <li>39. Spring hanger support</li> <li>40. Crossmember No. 4</li> <li>41. Crossmember No. 5</li> <li>42. Crossmember No. 6</li> <li>43. Shackle hanger bracket, inner</li> <li>44. Rear end crossmember, inner</li> <li>45. Rear end crossmember, outer</li> <li>46. Under guard bracket</li> <li>47. Shackle hanger bracket</li> <li>48. Shackle hanger bracket, outer</li> <li>49. Shackle hanger pipe</li> <li>50. Muffler hanger pipe (R.H.)</li> <li>51. Damper pin</li> <li>52. Rear sidemember reinforcement (B)</li> <li>53. Rear sidemember reinforcement (A)</li> <li>54. Bump stopper bracket</li> <li>55. Bump stopper plate</li> <li>56. Spring hanger bracket, inner</li> <li>57. Bulkhead</li> <li>58. Spring hanger gusset (A)</li> <li>59. Spring hanger bracket</li> <li>60. Spring hanger gusset (B)</li> <li>61. Spring hanger bracket, outer</li> <li>62. Rear sidemember</li> <li>63. Transfer reinforcement</li> <li>64. Centre sidemember reinforcement (B)</li> <li>65. Front brace</li> <li>66. Rear brace</li> <li>67. Bulkhead</li> <li>68. Rear hook</li> <li>69. Rear hook bracket</li> <li>70. Hitch member reinforcement</li> <li>71. Rear sidemember reinforcement</li> <li>72. Crossmember No. 7</li> <li>73. Rear sidemember support</li> <li>74. Rear brace (A)</li> <li>75. Rear brace</li> </ol> |
|---|---|

NOTES

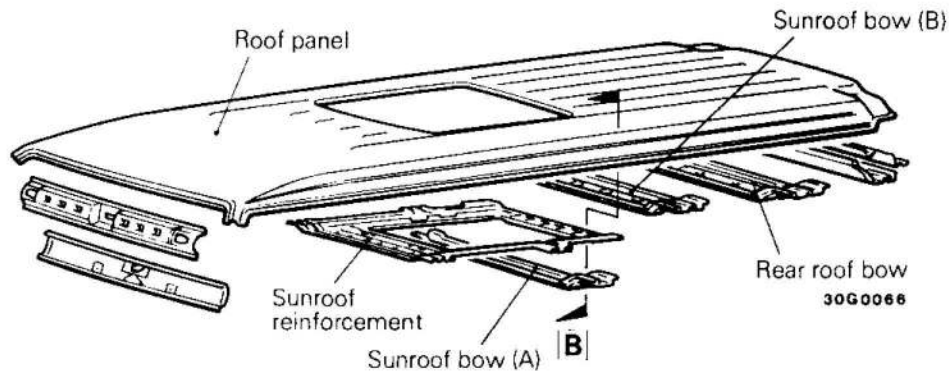
**ROOF**

- (1) For the roof panel, beads have been used in the fore-aft direction, thereby improving the surface rigidity of the panel itself.
- (2) Reinforcements have been added around the opening for the sunroof and crystal light roof (on models so equipped), thereby increasing the rigidity of the panel.
- (3) The roof bows, which support the roof panel, have been changed to a bulk configuration that resists force and vibration.

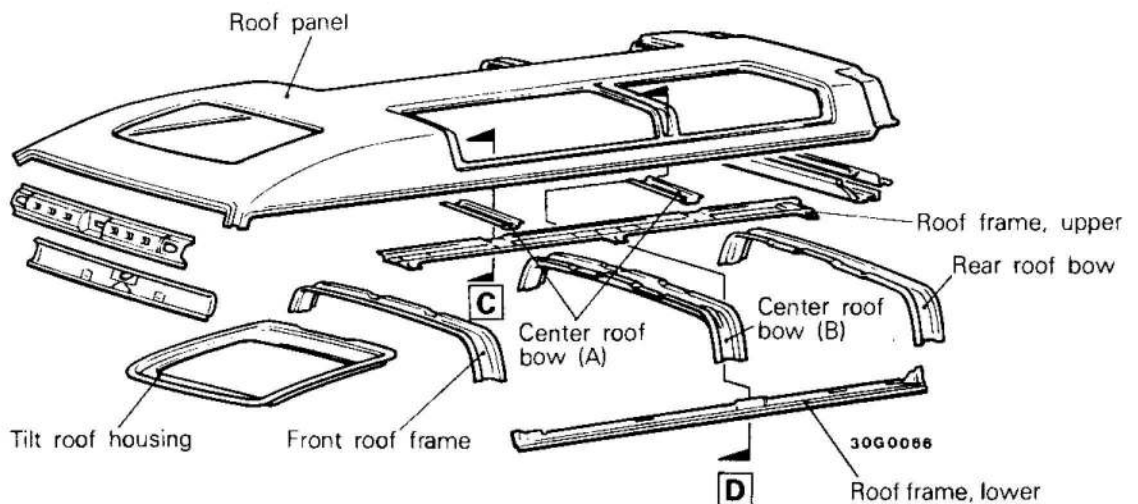
**Standard body vehicles  
Standard roof**



**Sunroof**



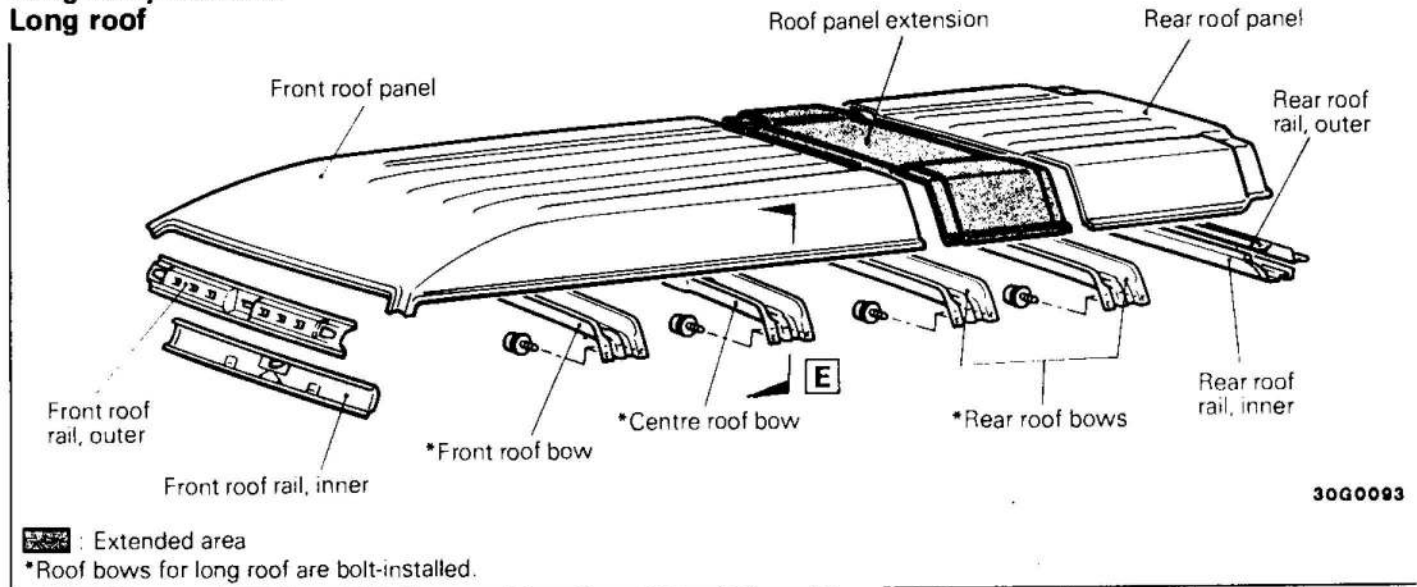
**Crystal light roof**



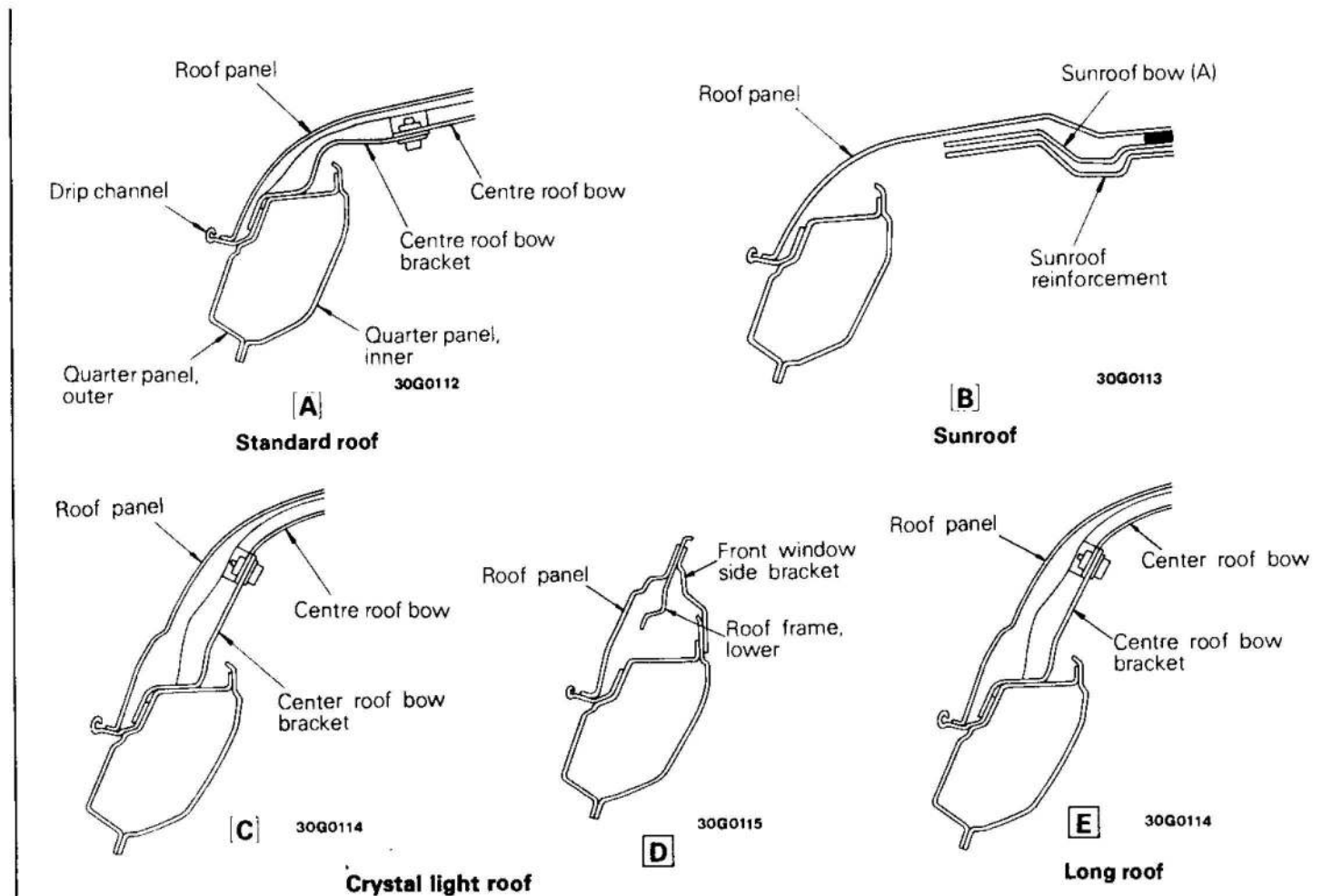
**NOTE**  
For the sunroof and crystal light roof, only the names of those panels that differ in configuration from those of the standard roof are shown.

(4) For the roof of the long body vehicles, a roof panel extension has been added, and the length has been increased to longer than that of standard body vehicles. In conjunction with these changes, one rear roof bow has been added, to make a total of four.

**Long body vehicles**  
**Long roof**



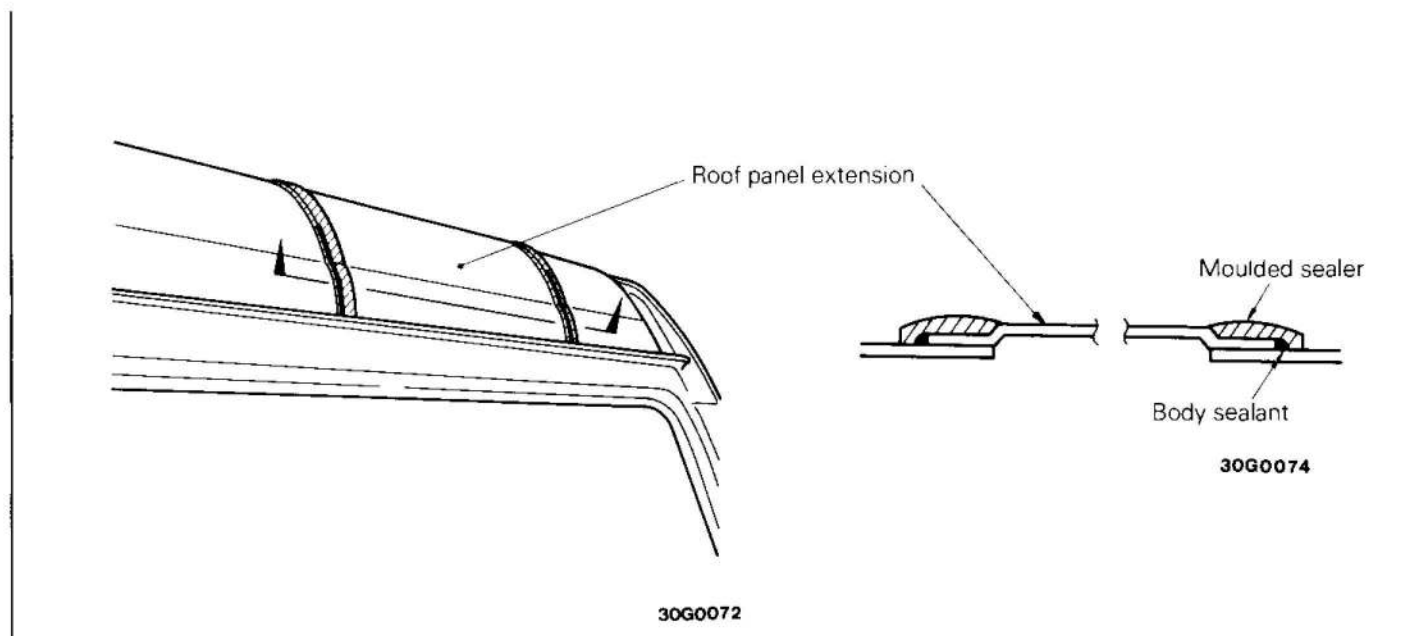
(5) Cross-sectional views of side roof rail



NOTE  
For the cross section **[B]** to **[E]**, only the names of those panels that differ in configuration from that of the cross section **[A]** are shown.

**ROOF PANEL EXTENSION (LONG ROOF)**

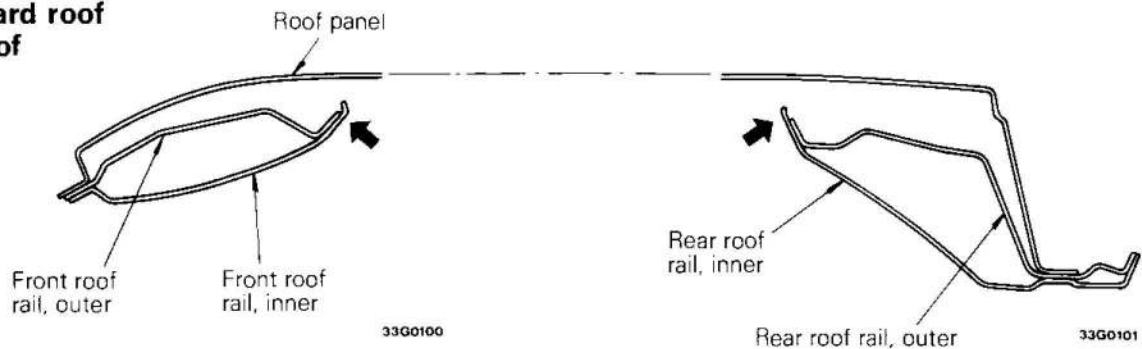
Body sealant and moulded sealer have been applied at the places where the roof panel extension and the front and rear roof panels are joined, thus providing protection against rain leaks and corrosion.



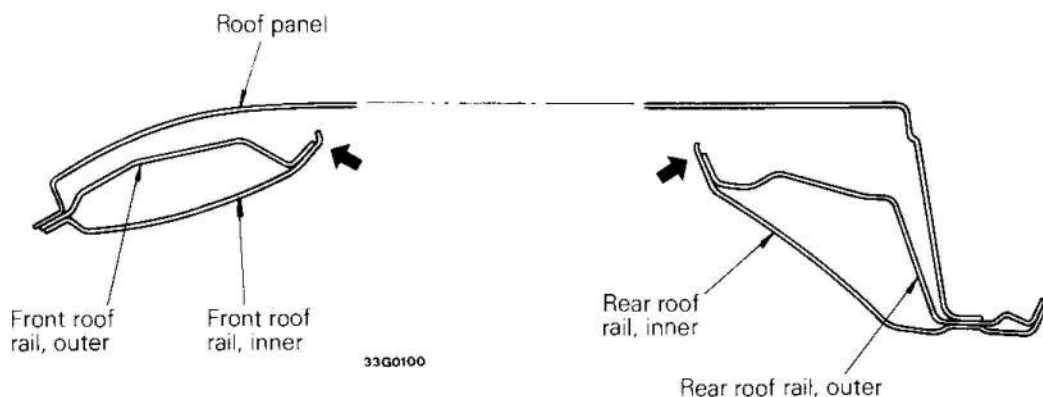
**FRONT AND REAR ROOF RAILS**

- (1) The front and rear roof rails have been changed to a closed cross-sectional configuration, thereby improving rigidity.
- (2) The flange end at the vehicle interior end of the front and rear roof rail inner panels has been bent upward, thus improving safety.

**Standard roof Sunroof**



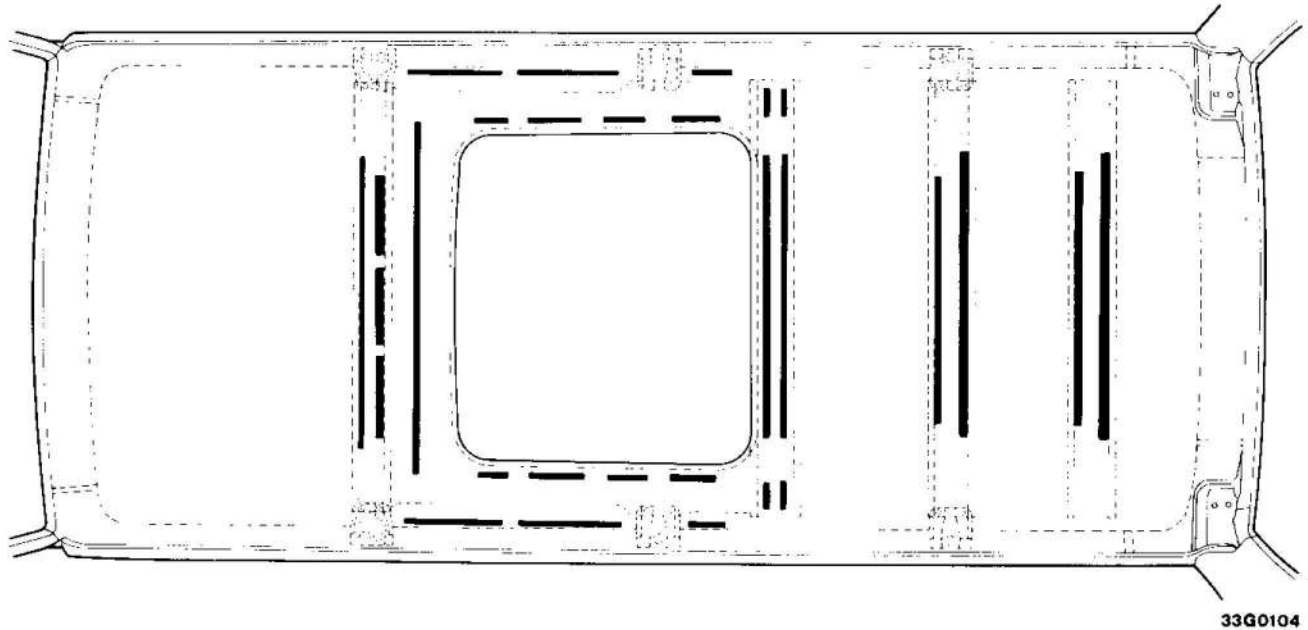
**Long roof**



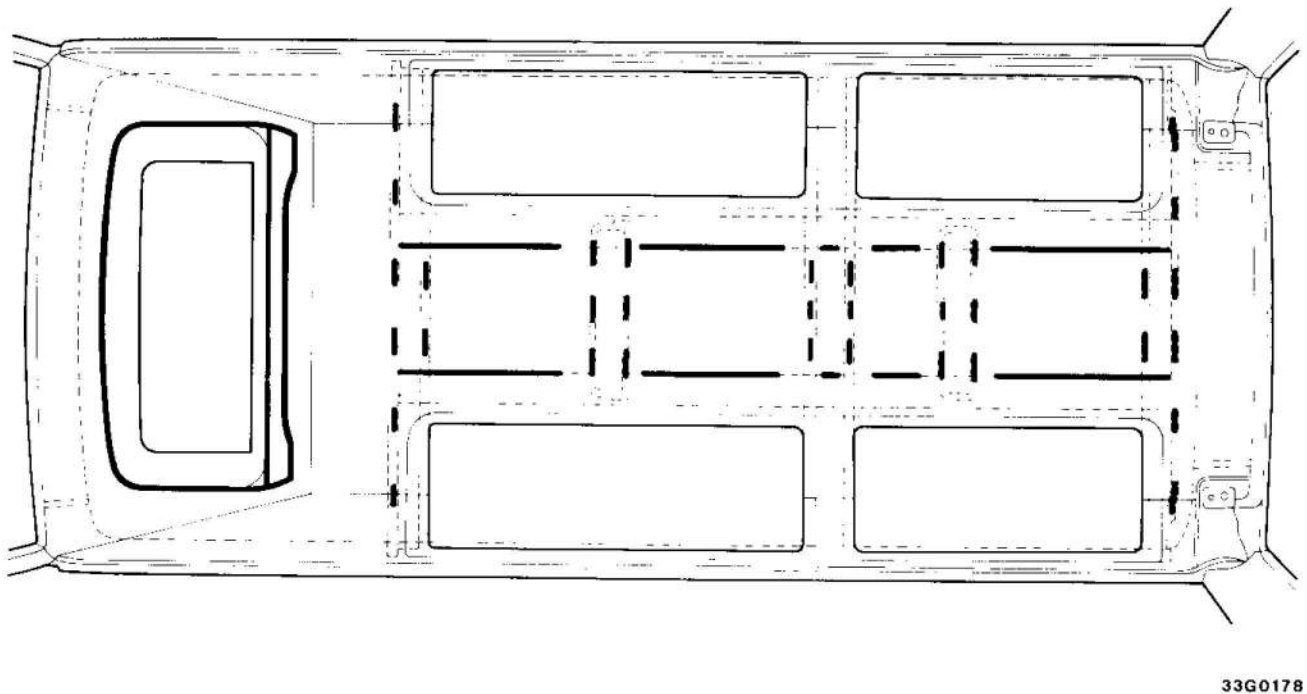
**STRUCTURAL ADHESIVE**

For the roof, which is an exterior panel, spot welding is disadvantageous because "bruises" remain, spoiling its appearance. For this reason, adhesive is applied where shown in the figure, and roof bows and reinforcements are installed to the roof panel in order to increase the rigidity of the roof.

**Sunroof**



**Crystal light roof**



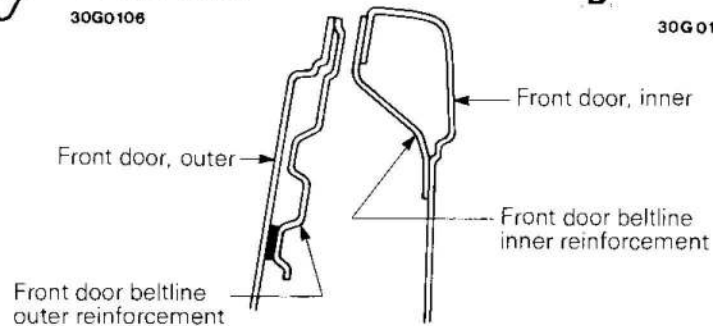
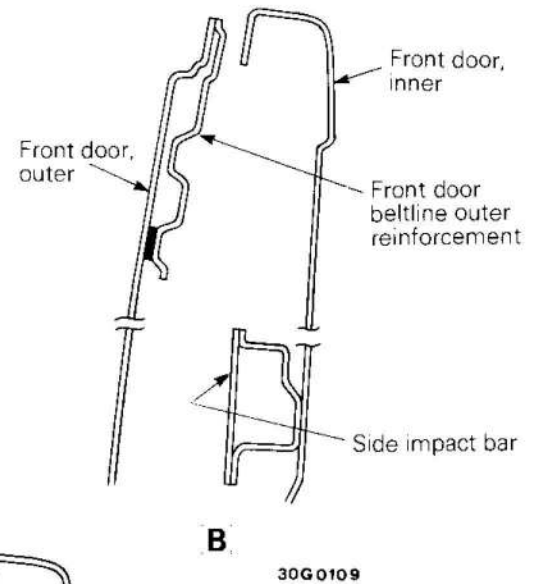
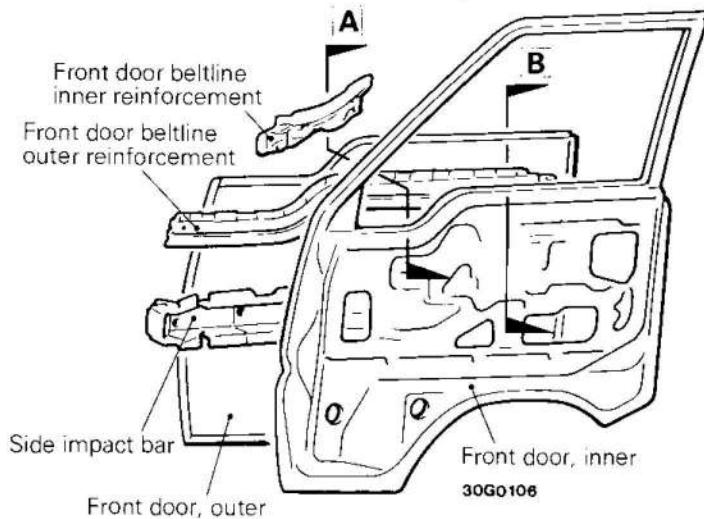
■ : Chloroprene-base drying sealant

Adhesive	Type

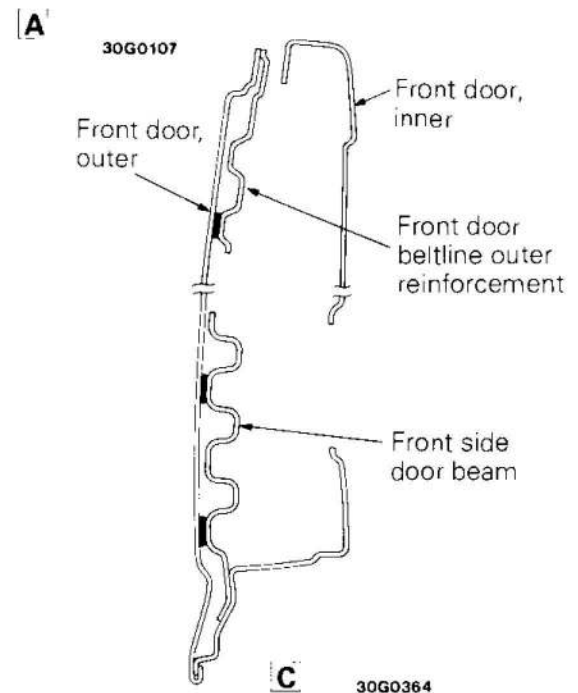
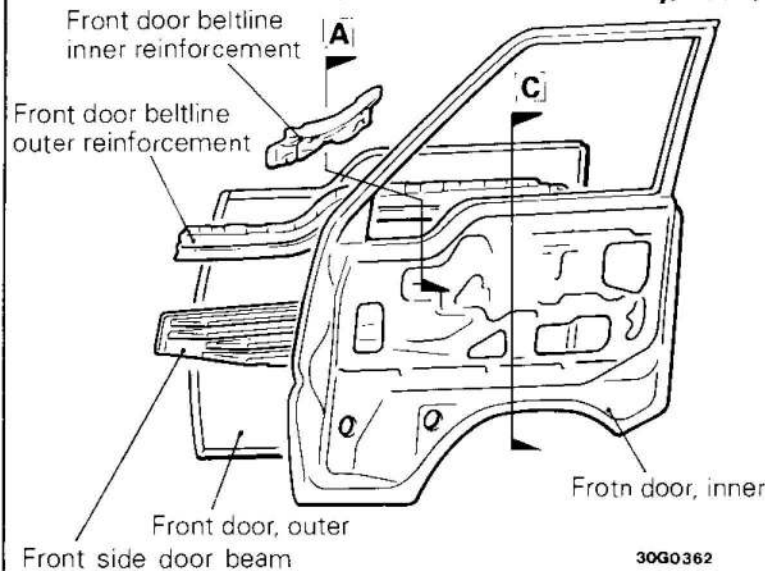
**FRONT DOOR**

- (1) For the front door, the sash has been separated from the outer panel, and has been installed to the inner panel.
- (2) The reinforcements (shown in the figure) have been added to the outer and inner panels, thereby reducing panel vibration and increasing the strength of the side surfaces of the body.
- (3) To maintain the safety of passengers in the event of a side impact, front side door beams have been installed. (Vehicles for Europe built from November, 1991 and for Australia built from July, 1992)

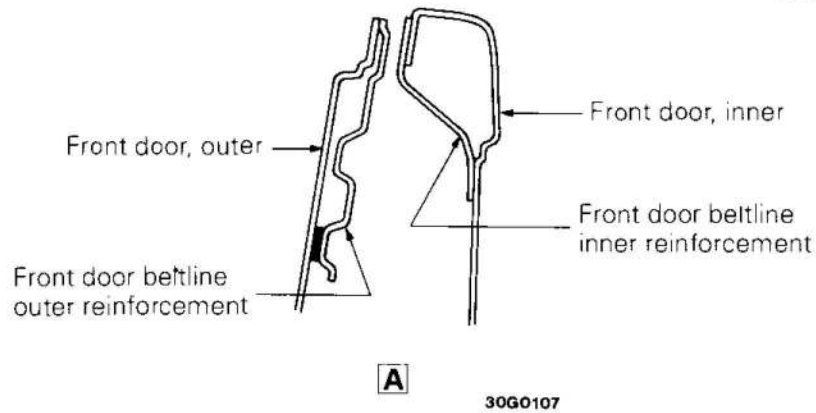
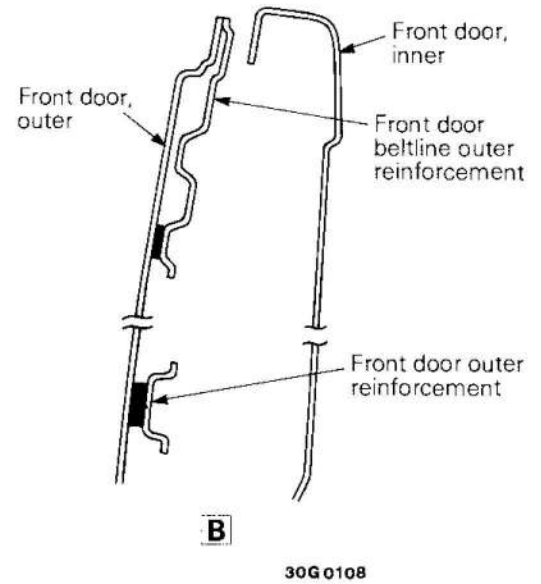
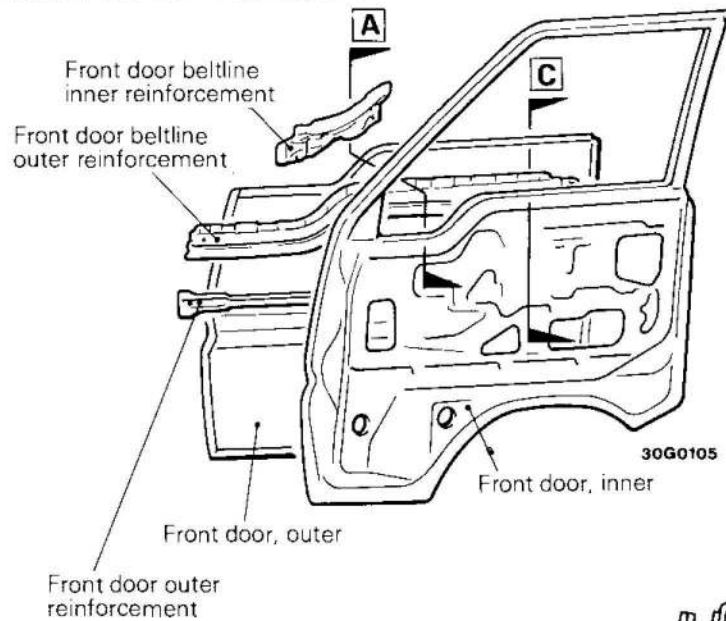
**Vehicles for Europe (Vehicles built up to October, 1991)**  
**Vehicles for Australia (Vehicles built up to June, 1992)**



**Vehicles for Europe (Vehicles built from November, 1991)**  
**Vehicles for Australia (Vehicles built from July, 1992)**



Vehicles for General Export





NOTES

## NOTES REGARDING PANEL REPLACEMENT

### REAR FLOOR

Because some of the holes in the component parts (described below) of the rear floor panel have not been made, the necessary holes should be made before replacement.

#### Caution

Check to be sure that the locations of the installation holes coincide with the positions of the holes corresponding to the reinforcements welded to the frame (broken lines in the figure).

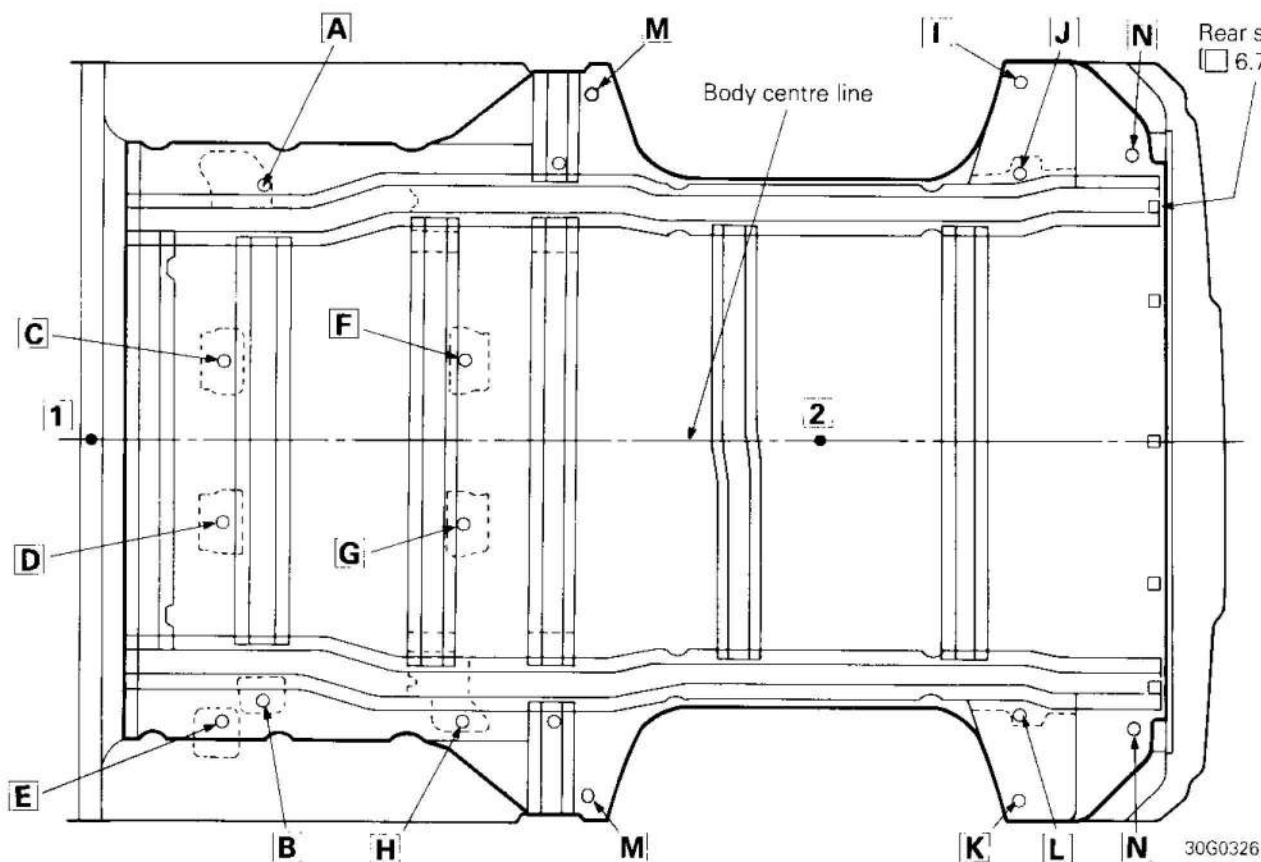
#### Standard body vehicles (L.H. drive vehicles)

##### Van

- Rear seat mounting holes ..... **A** **B** [diameter: 14 mm (0.55 in.)]
- Cargo room tie-down hook mounting holes ..... **M** **N** [diameter: 16 mm (0.63 in.)]

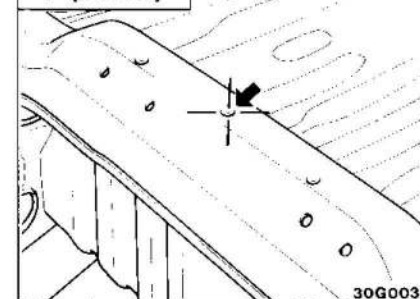
##### Mini-bus

- Second seat mounting holes ..... **C** — **H** [diameter: 14 mm (0.55 in.)]
- Third seat mounting holes ..... **I** — **L** [diameter: 14 mm (0.55 in.)]

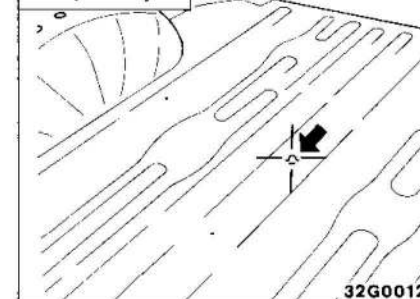


#### Body centre point reference locations

##### 1 (Front)

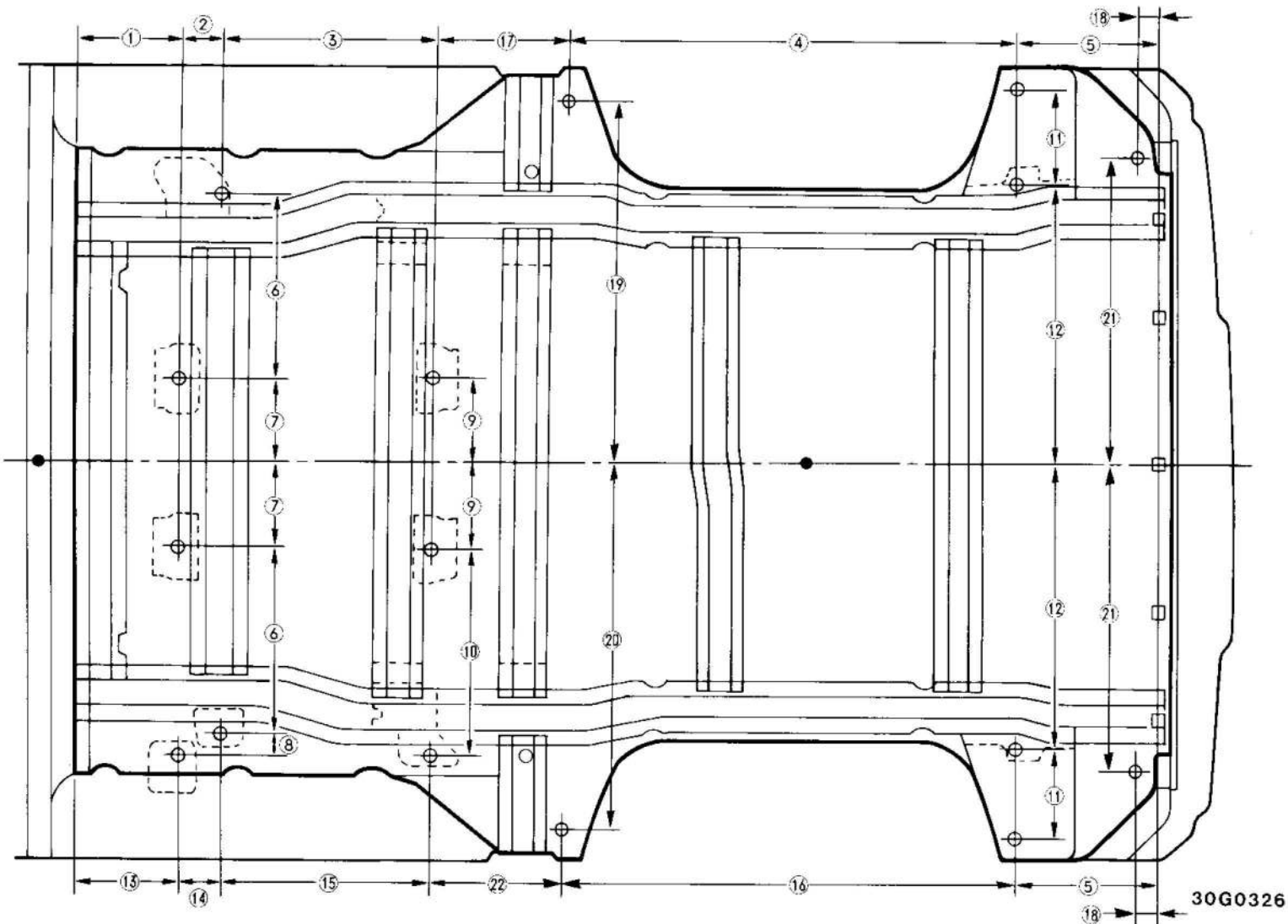


##### 2 (Rear)



No.	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪
Length	197 (7.76)	80 (3.15)	417 (16.42)	899 (35.39)	269 (10.59)	356 (14.02)	164 (6.46)	50 (1.97)	164 (6.46)	406 (15.98)	177 (6.97)
No.	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒
Length	555 (21.85)	192 (7.56)	85 (3.35)	420 (16.54)	899 (35.39)	243 (9.57)	88 (3.46)	720 (28.35)	710 (27.95)	665 (26.18)	240 (9.45)

mm (in.)



BODY — Body Panelling

42-125

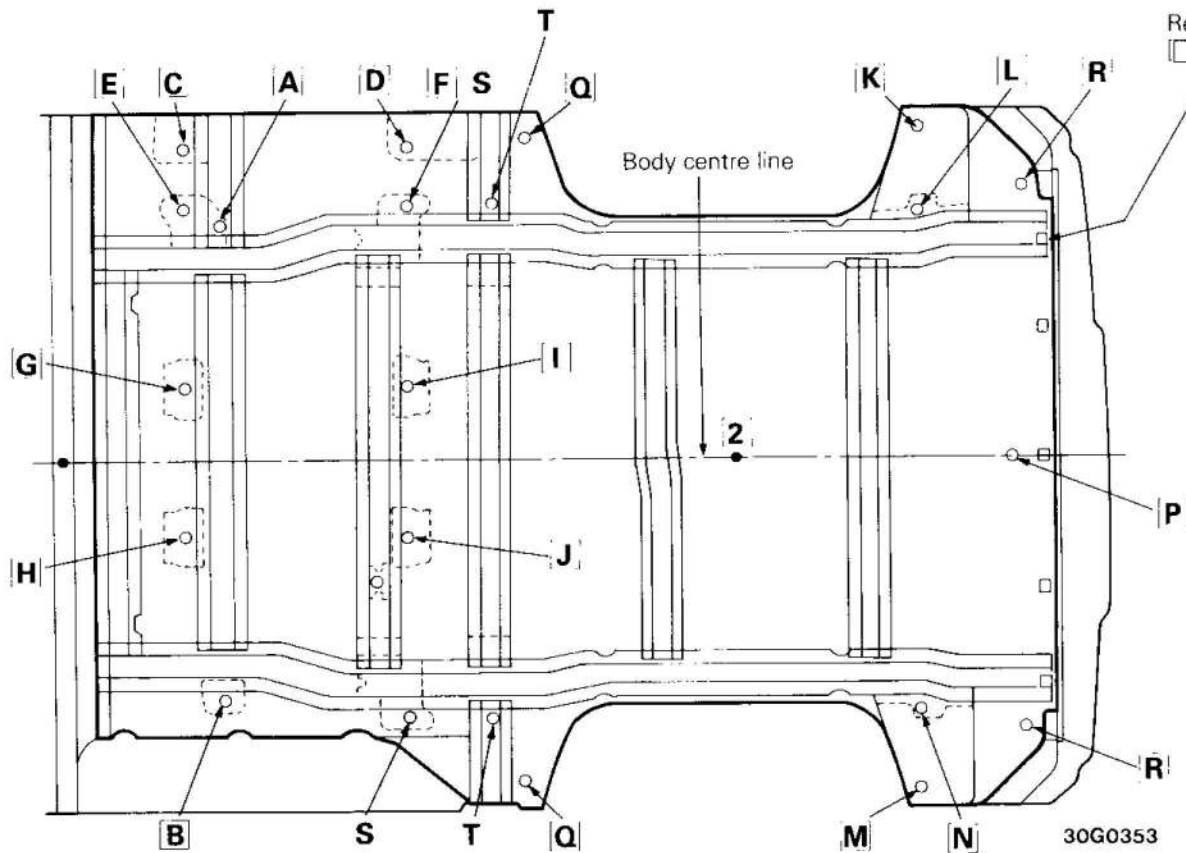
**Standard body vehicles (R.H. drive vehicles)**

**Van**

- Rear seat mounting holes ..... [A|B] [diameter: 14 mm (0.55 in.)]
- Cargo room tie-down hook mounting holes ..... [Q|R] [diameter: 16 mm (0.63 in.)]
- Rear seat catch mounting holes [Window van (Vehicles for Australia)] .. [S|T] [diameter: 14 mm (0.55 in.)]

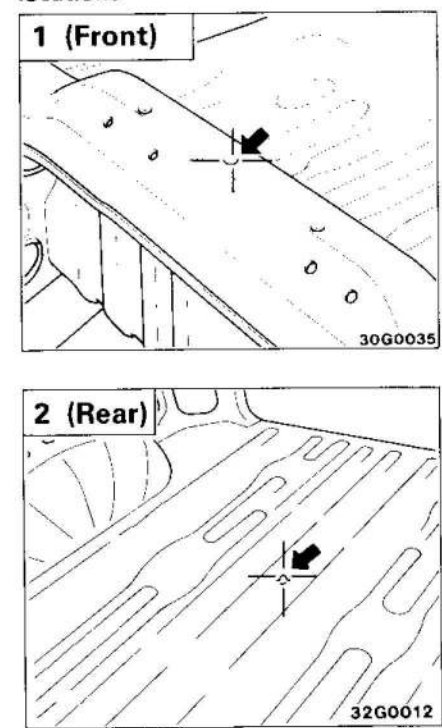
**Mini-bus**

- Second seat mounting holes (four door models) ..... [C|D] [diameter: 14 mm (0.55 in.)]
- Second seat mounting holes (five door models) ..... [E|F] [diameter: 14 mm (0.55 in.)]
- Second seat mounting holes (all models)..... [G—J] [diameter: 14 mm (0.55 in.)]
- Third seat mounting holes ..... [K—N] [diameter: 14 mm (0.55 in.)]
- Auxiliary seat mounting hole (vehicles for Australia) .. [O] [diameter: 14 mm (0.55 in.)]
- Child restraint anchor mounting hole (vehicles for Australia) .. [P] [diameter: 12 mm (0.47 in.)]



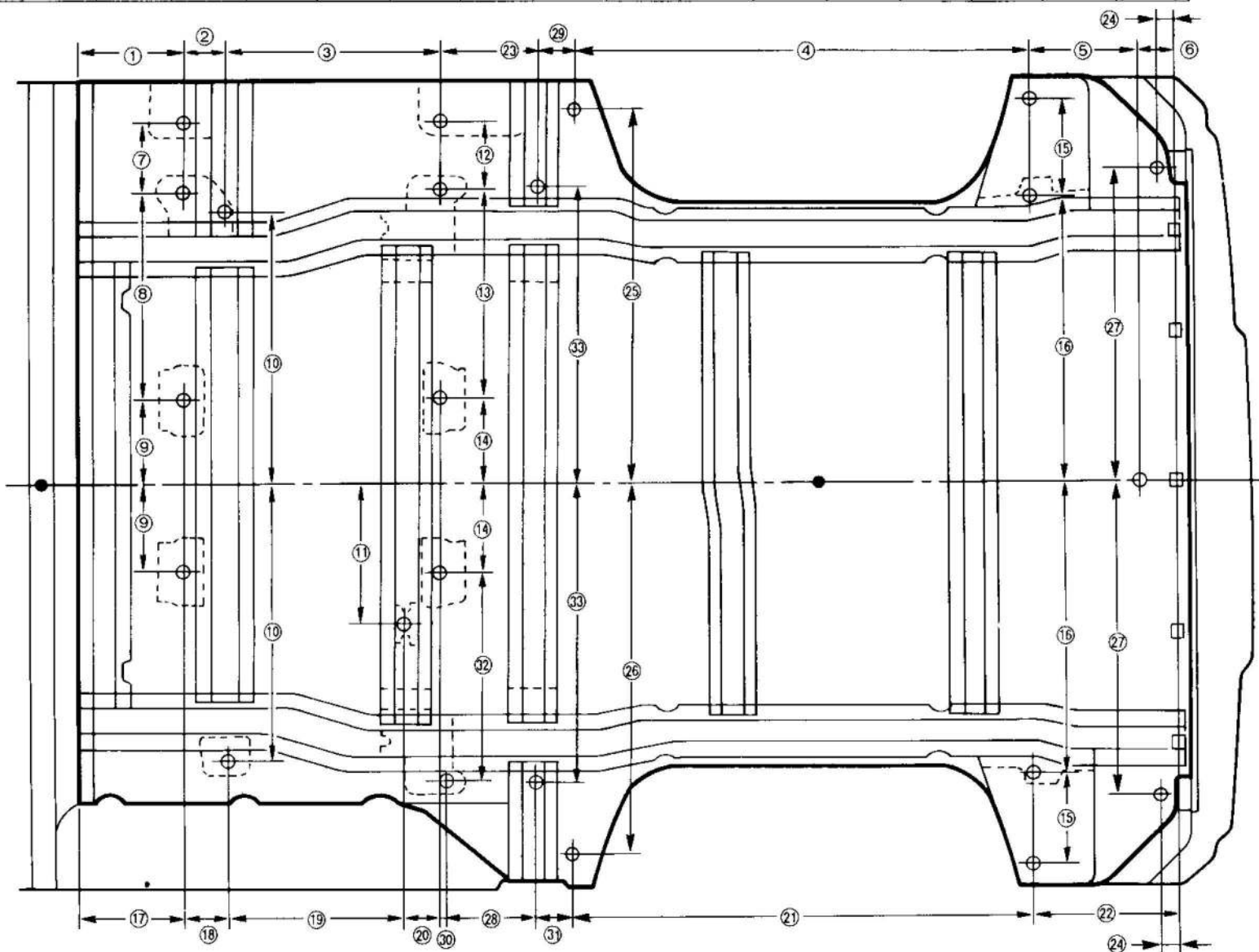
Rear step plate mounting holes  
 □ 6.7 mm (0.26 in.)-5 places

**Body centre point reference locations**



mm (in.)

No.	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰
Length	192 (7.56)	85 (3.35)	420 (16.54)	899 (35.39)	211 (8.31)	58 (2.28)	125 (4.92)	406 (15.98)	164 (6.46)	520 (20.47)	260 (10.24)	125 (4.92)	406 (15.98)	164 (6.46)	177 (6.97)	555 (21.85)	197 (7.76)
No.	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚	㉛	㉜	㉝	
Length	80 (3.15)	340 (13.39)	77 (3.03)	899 (35.39)	269 (10.59)	185 (7.28)	88 (3.46)	720 (28.35)	710 (27.95)	665 (26.18)	185 (7.28)	55 (2.17)	3 (0.11)	55 (2.17)	406 (15.98)	560 (22.05)	



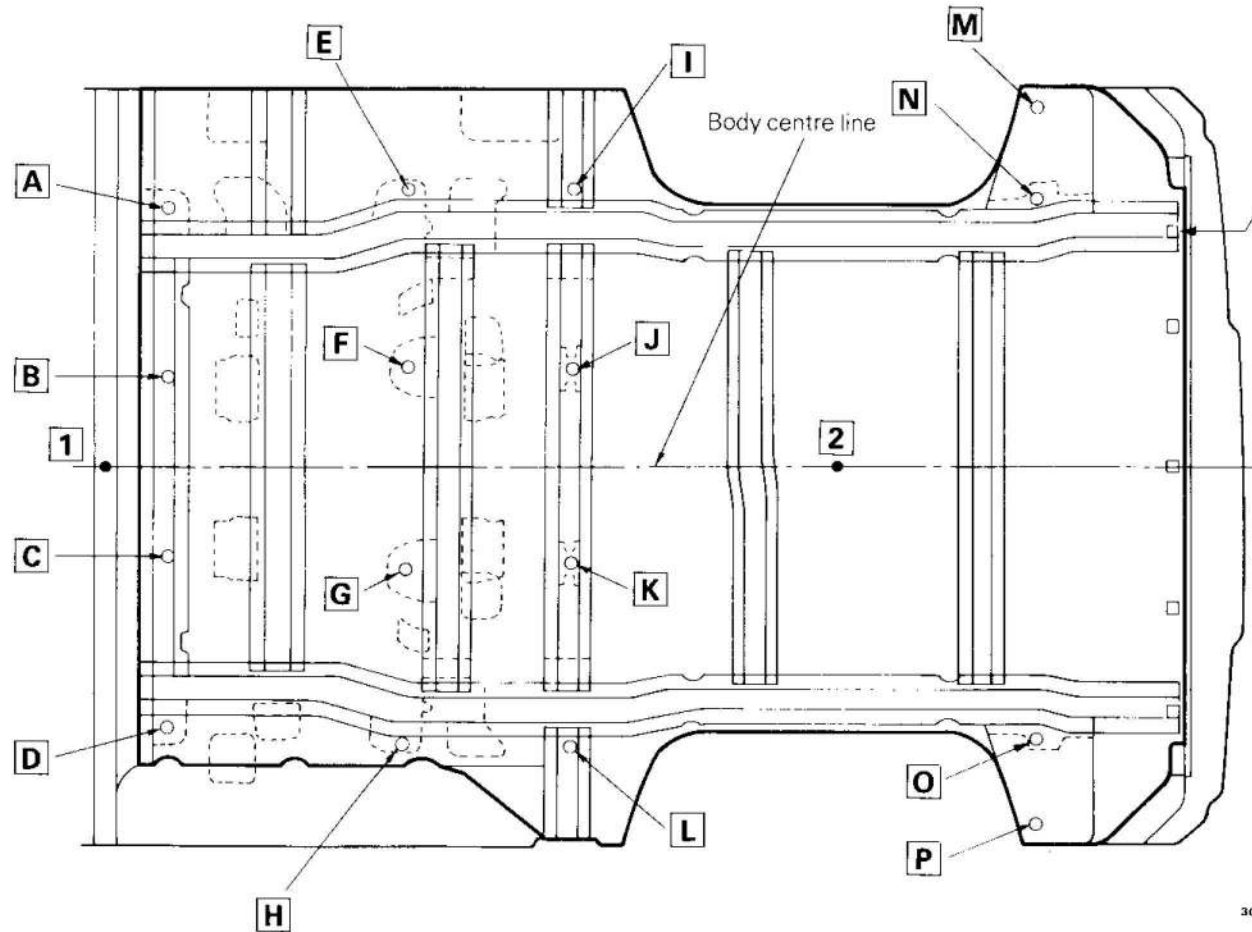
BODY — Body Paneling

42-127

**Standard body vehicles (R.H. drive vehicles)**

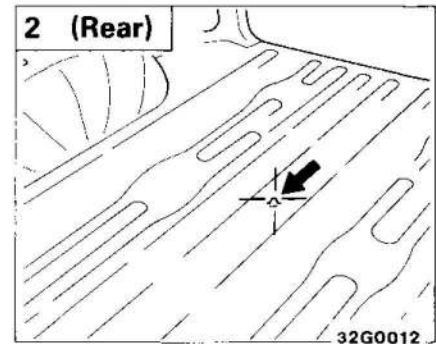
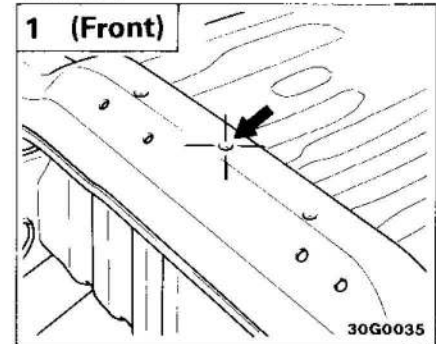
Mini-bus EXCEED

- Long-slide seat installation holes ..... **A-L** [hole diameter: 14 mm (0.55 in.)]
- Third seat installation holes ..... **M-P** [hole diameter: 14 mm (0.55 in.)]



Rear step plate mounting holes  
 [□ 6.7 mm (0.26 in.)-5 places]

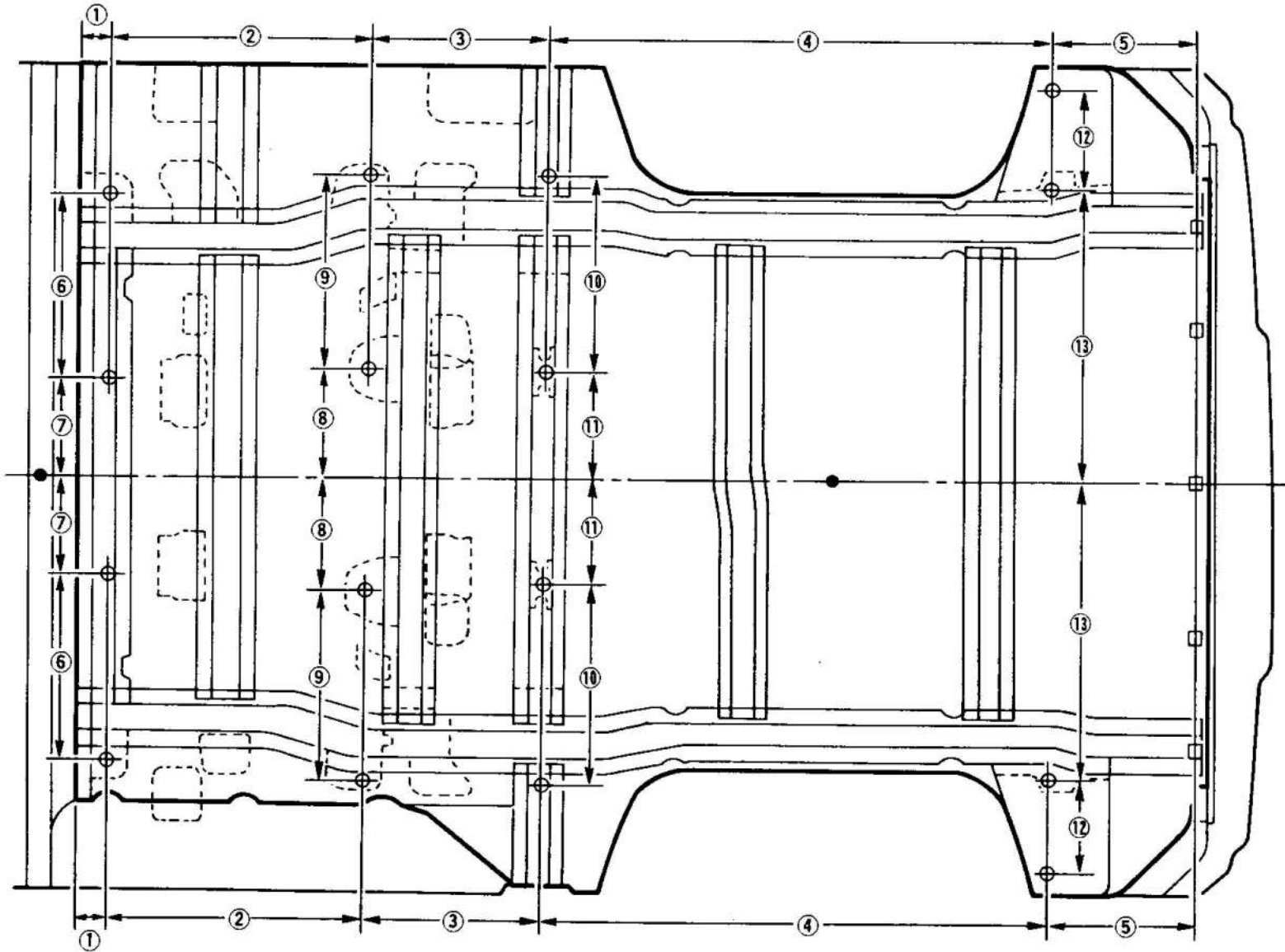
**Body centre point reference locations**



30G0312

mm (in.)

No.	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬
Length	47 (1.85)	489.5 (19.27)	345.5 (13.60)	954 (37.56)	269 (10.59)	275 (10.83)	245 (9.65)	205 (8.07)	355 (13.98)	355 (13.98)	205 (8.07)	177 (6.97)	555 (21.85)



BODY — Body Panelling

42-127-2

### Long body vehicles

#### Van

- Rear seat mounting holes ..... **A** **B** [diameter: 14mm (0.55 in.)]

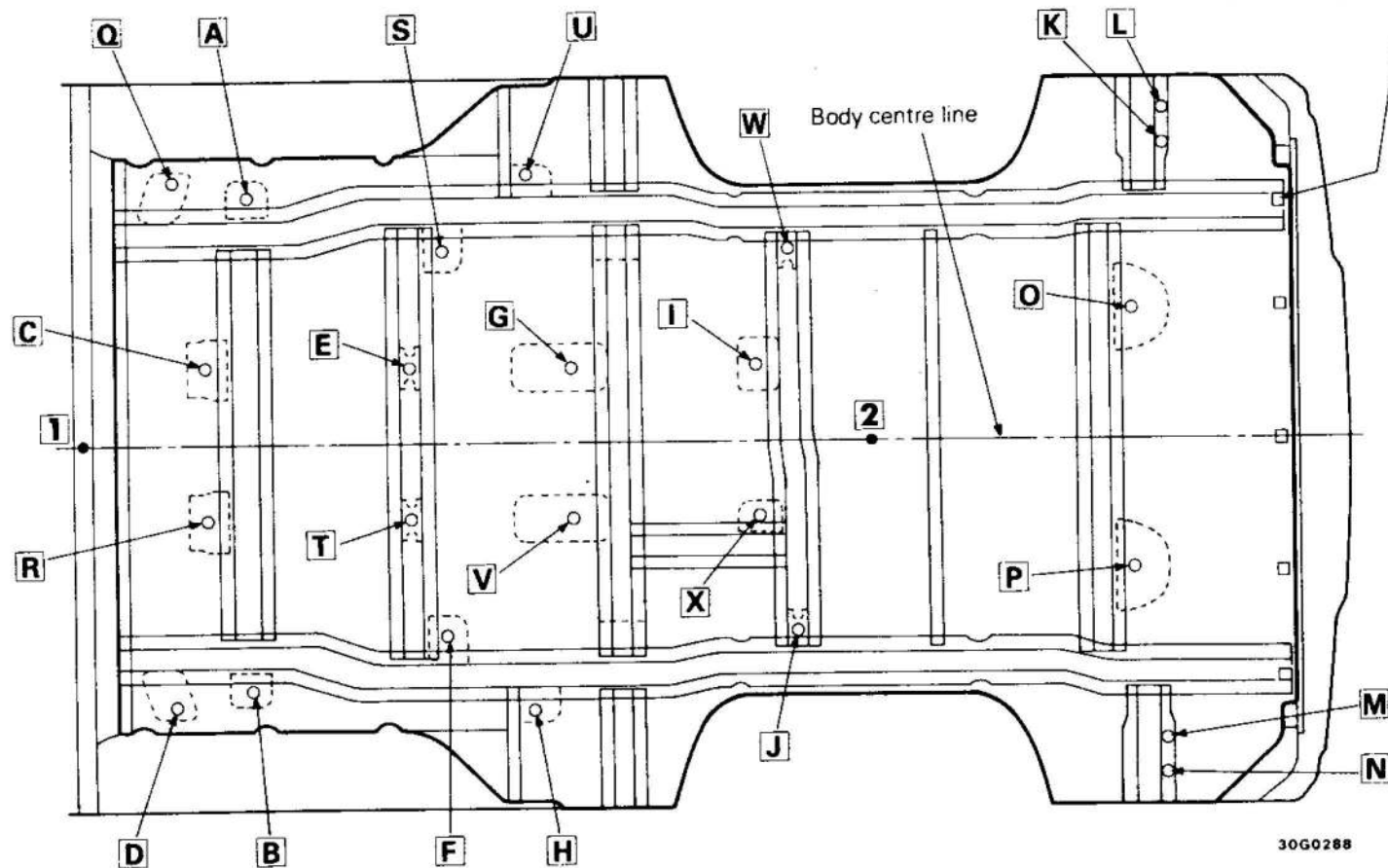
#### Mini-bus (L.H. drive vehicles for General Export)

- Second seat mounting holes .... **C** - **F** [diameter: 14mm (0.55 in.)]
- Third seat mounting holes ..... **G** - **J** [diameter: 14mm (0.55 in.)]
- Fourth seat mounting holes ..... **K** - **N** [diameter: 12mm (0.47 in.)]
- Fourth seat belt anchor mounting holes ..... **O** - **P** [diameter: 14mm (0.55 in.)]

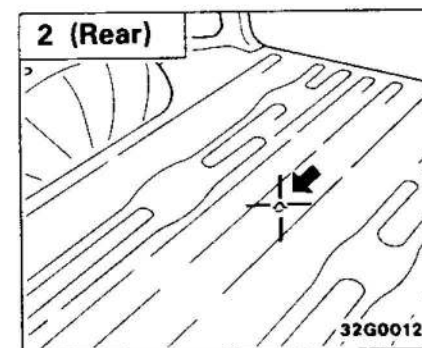
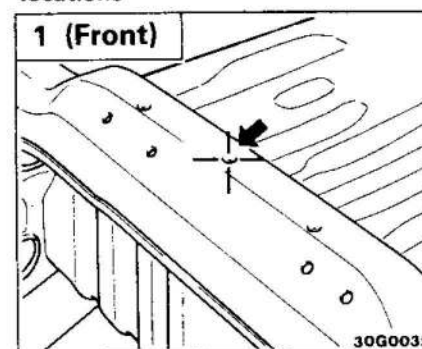
#### Mini-bus (R.H. drive vehicles for General Export)

- Second seat mounting holes .... **Q** - **T** [diameter: 14mm (0.55 in.)]
- Third seat mounting holes ..... **U** - **X** [diameter: 14mm (0.55 in.)]
- Fourth seat mounting holes ..... **K** - **N** [diameter: 12mm (0.47 in.)]
- Fourth seat belt anchor mounting holes ..... **O** - **P** [diameter: 14mm (0.55 in.)]

Rear step plate mounting holes  
 □ 6.7 mm (0.26 in.)-5 places



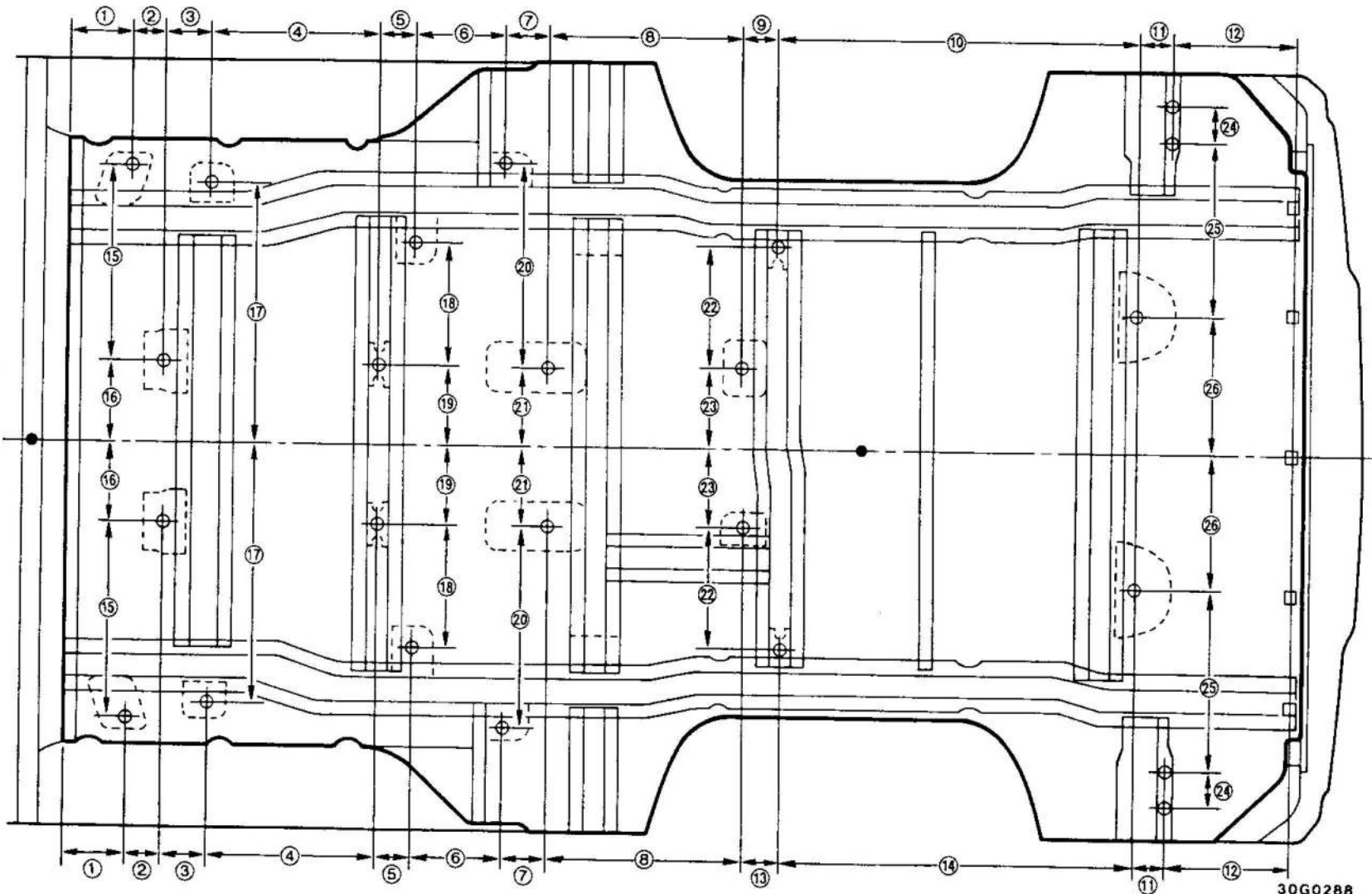
#### Body centre point reference locations



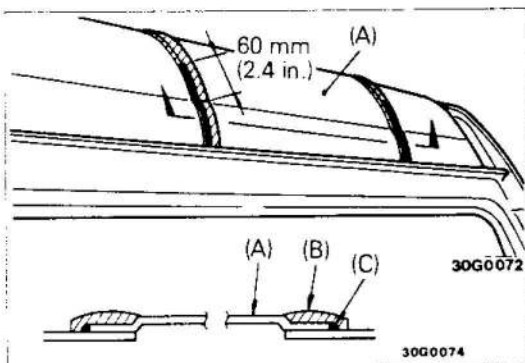


No.	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬
Length	127 (5.00)	70 (2.76)	80 (3.15)	340 (13.39)	77 (3.03)	188 (7.40)	70 (2.76)	420 (16.54)	77 (3.03)	730 (28.74)	63 (2.48)	263 (10.35)	67 (2.64)
No.	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖
Length	740 (29.13)	396 (15.59)	164 (6.46)	520 (20.47)	238 (9.37)	164 (6.46)	396 (15.59)	164 (6.46)	238 (9.37)	164 (6.46)	60 (2.36)	372 (14.65)	275 (10.83)

mm (in.)



30G0288



### ROOF (LONG BODY VEHICLES)

The roof panel extension (A) has been installed to the roof of long body vehicles, and moulded sealer (B) and body sealant (C) have been applied at the places where the roof panel extension (A) and the front and rear roof panels are joined. If the moulded sealer becomes damaged or peels off, repair as described below.

Moulded sealer (heat-cured type): MB282200 [length: 1620 mm (63.8 in.)]

#### NOTE

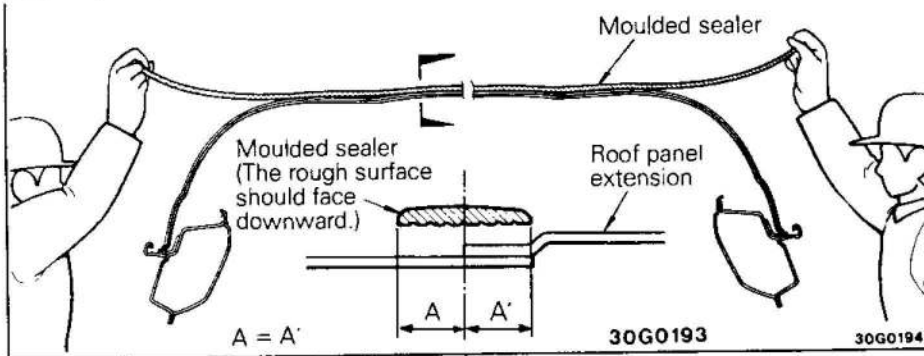
Because the moulded sealer is made of a hygroscopic-absorption foam material, it should be stored in a cool, dark place.

### Replacement of all moulded sealer (roof panel replacement)

Apply a coating of body sealant to both sides of the roof.  
(Refer to the figure above.)

Remove all moisture and dirt from the panel's joints.  
(This is to prevent the moulded sealer from absorbing moisture and foaming.)

After placing the moulded sealer in position all around the joints, gently press to both sides of the roof.  
(Position so that the panel's joint is at the centre (A = A') of the moulded sealer width.)



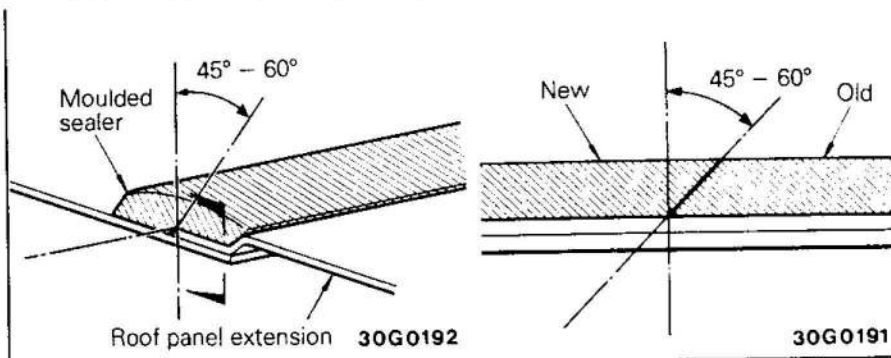
Cut off both edges of the positioned moulded sealer, and insert to the inner side of the drip channel.

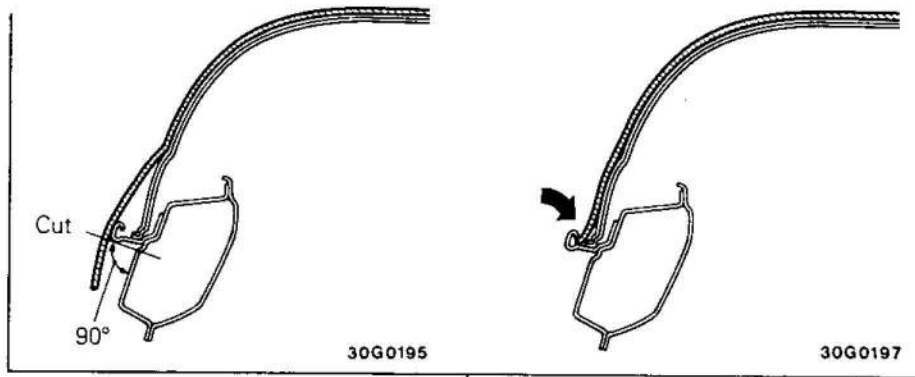
### Partial replacement of the moulded sealer (roof panel repair)

Remove the damaged moulded sealer and clean the surface by using paint thinner.  
(Heat by using a dryer; when the moulded sealer becomes soft and pliable, use a wooden spatula-like tool to scoop up the sealer.)

Panel repair and basic coating

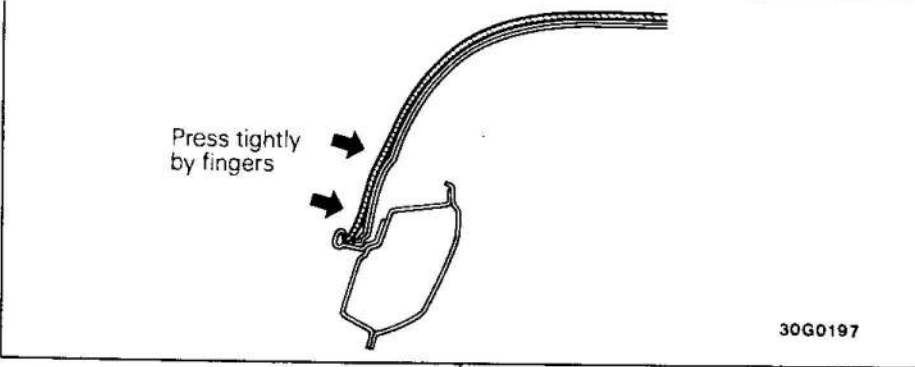
Use a knife to cut (at a diagonal angle) the place where the new moulded sealer and the moulded sealer at the body joint (cut end).  
(The joined part is at the centre of the panel (flat surface); there should be no joining at the sides. This is to maintain the finish and external appearance of the joined part.)





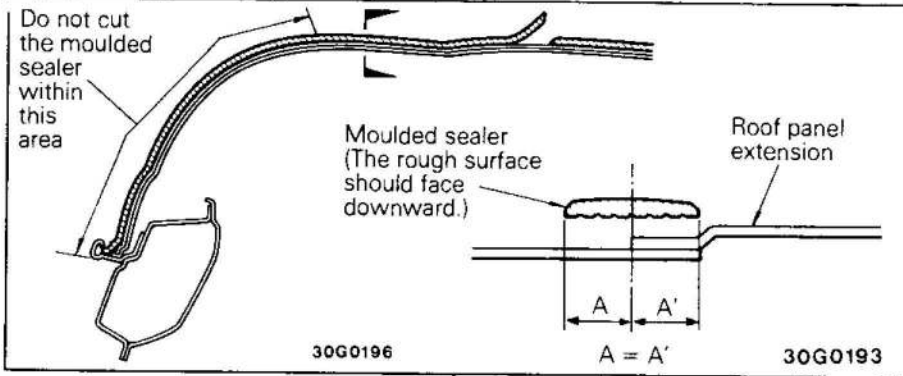
Bake on an infrared-ray stand or in a painting booth. Heating conditions: 160°C (320°F) for 15 minutes or longer (The baking is finished when smoke is no longer emitted from the moulded sealer.)

After the baking (heating) is finished, if there is any space between the moulded sealer and the panel, press the moulded sealer tightly to the panel when the temperature reaches approximately 40°C (104°F). (Do not touch the moulded sealer if the temperature is 40°C (104°F) or higher, because the fingerprint traces will spoil the appearance.)



Intermediate and final coats (Follow the same procedures as usually followed for painting.) (Do not use water-polishing on the moulded sealer.)

Align the cut end of the moulded sealer at the body with the cut end of the new moulded sealer, and position so that the panel's joint is at the centre (A = A') of the sealer width.



Bake (heat) the new moulded sealer by using an infrared-ray stand or dryer.  
 Heating conditions:  
 • Infrared-ray stand: 160°C (320°F) for 15 minutes of longer  
 • Dryer: Gradual heating, working from one side (For either method, the baking (heating) is finished when smoke is no longer emitted from the moulded sealer.)

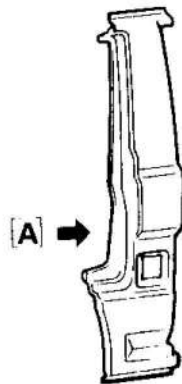
**B-PILLAR, OUTER L.H. (FIVE DOOR VEHICLES)  
 QUARTER PANEL, OUTER L.H. (FOUR DOOR VEHICLES)  
 (Vehicles for Gulf Countries)**

Because the installation holes for the certification plate are not made in the left side B-pillar outer/quarter outer panel replacement part, the necessary installation holes should be made when the panel is replaced.

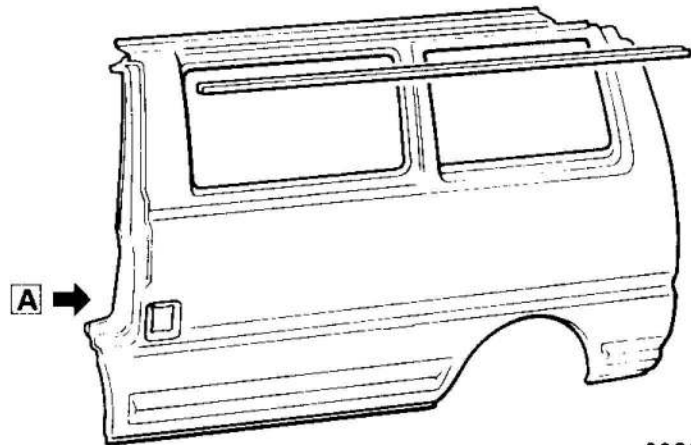
**Caution**

Check to be sure that the installation holes are made at positions corresponding to the holes in the certification plate.

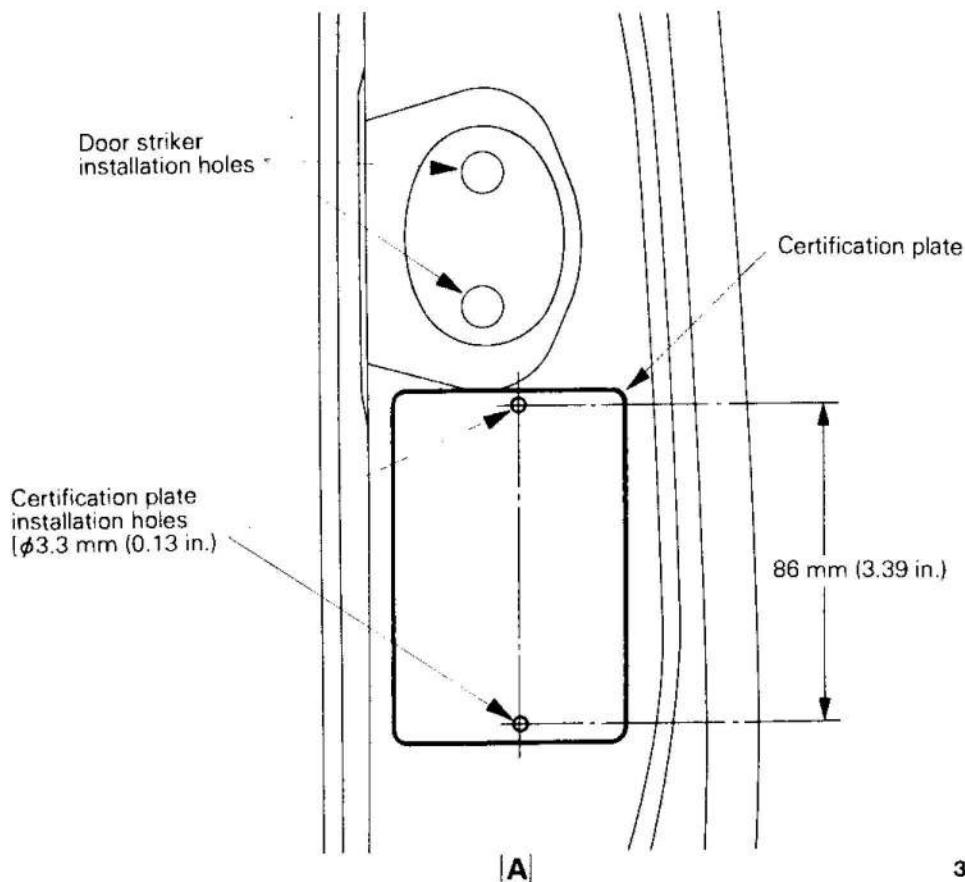
B-pillar, outer L.H.



Quarter panel, outer L.H.



30G0223

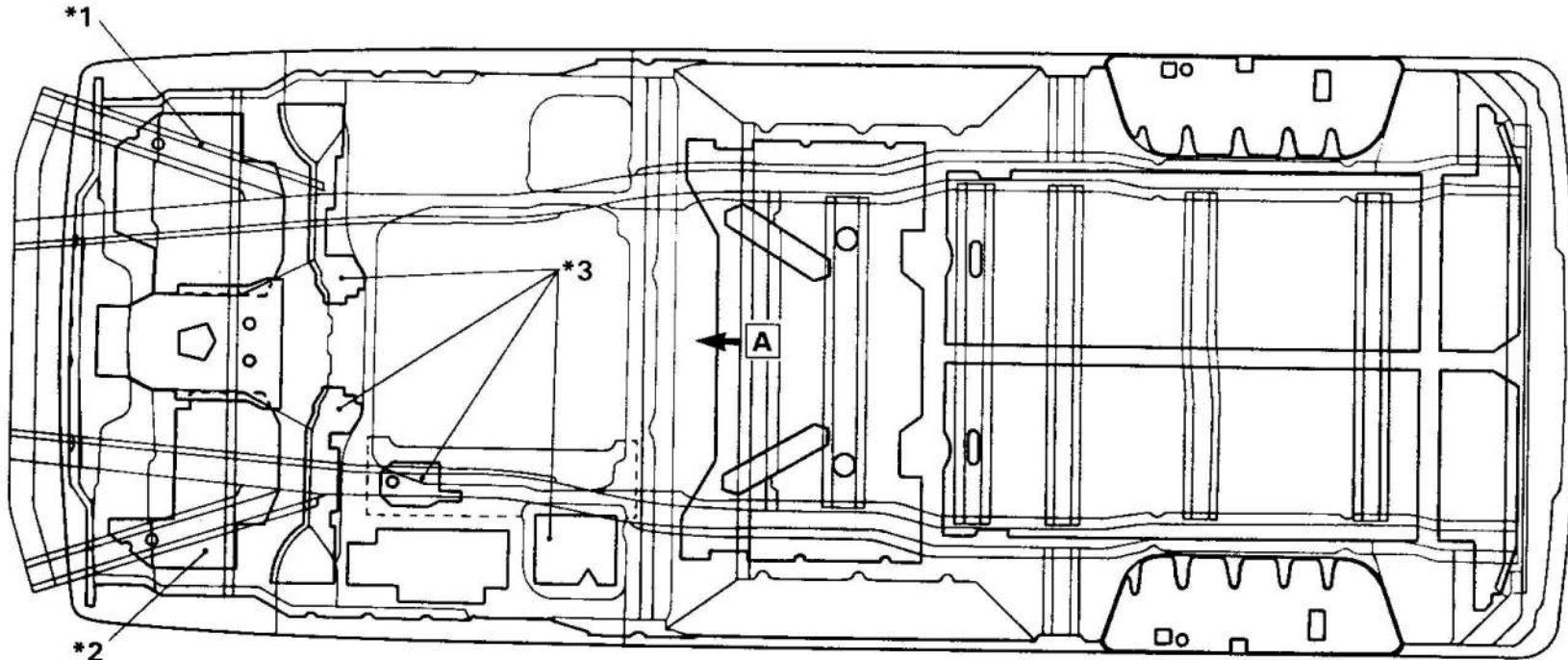


30G0218

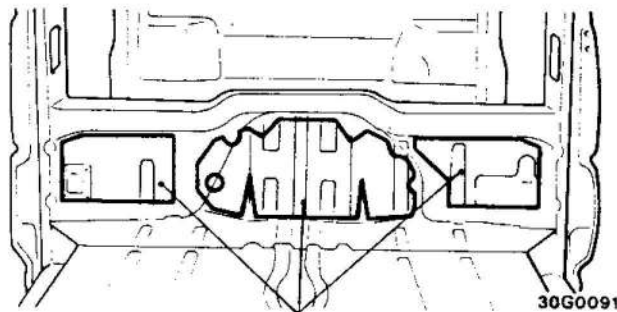
# SILENCER APPLICATION LOCATIONS

In order to reduce vibration and screen out heat from the exhaust gas, silencers (melting sheets) are applied to the top of the floor. If the silencers come off during welded panel replacement or other repairs, cut the replacement parts in the shapes indicated and apply them in the appropriate locations.

**Vehicles for Europe**  
**Mini-bus**



31G0039



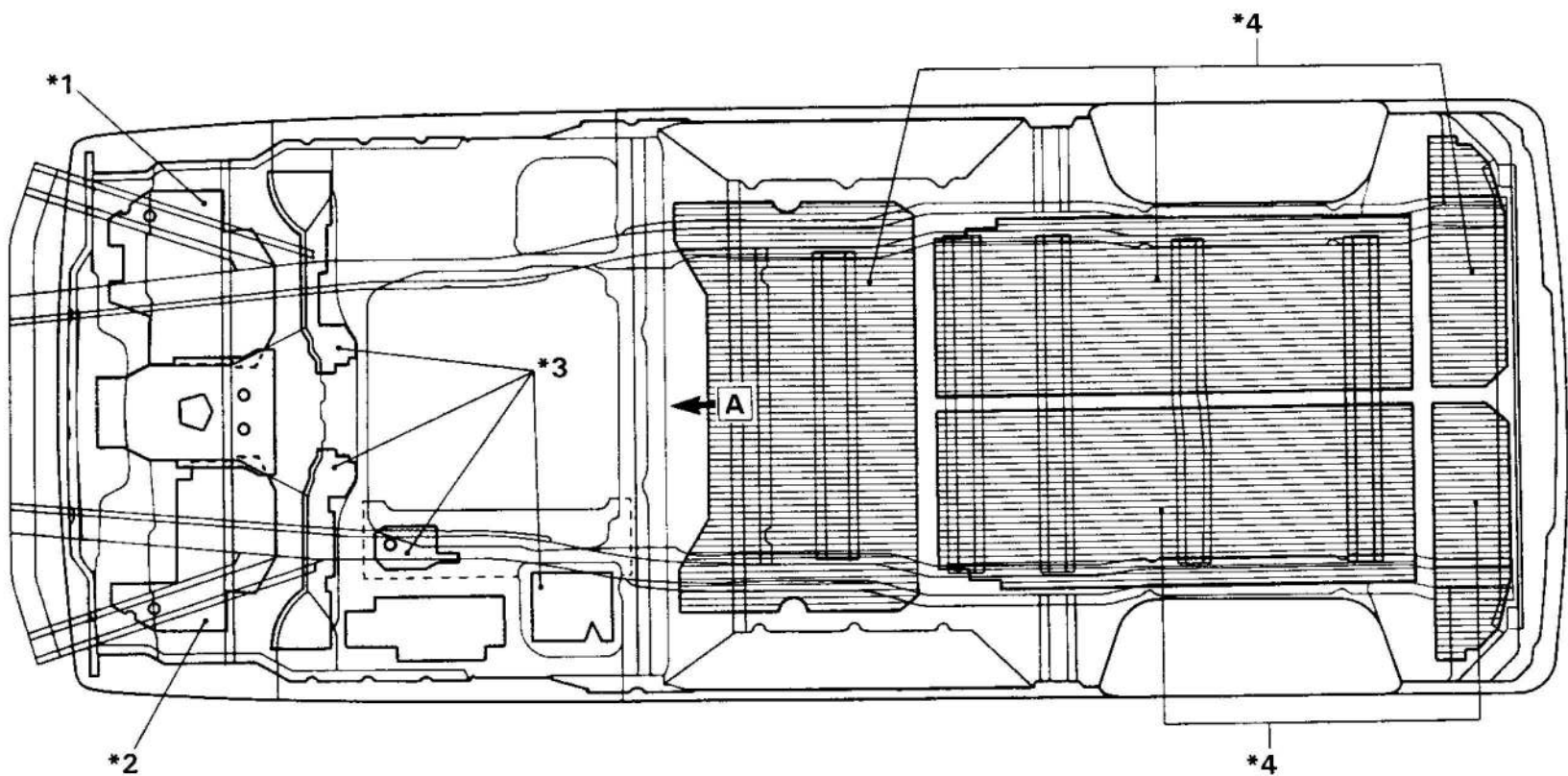
30G0091

\*3

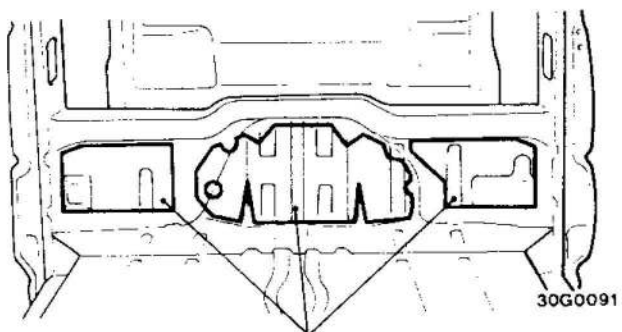
A

□ 1.6 mm (0.06 in.) thick

- \*1 L.H. drive vehicles: Right side  
 R.H. drive vehicles: Left side
- \*2 L.H. drive vehicles: Left side  
 R.H. drive vehicles: Right side
- \*3 Diesel-powered vehicles



31G0041



30G0091

A

- : 1.6 mm (0.06 in.) thick  
 : 6.4 mm (0.25 in.) (four layers of 1.6 mm (0.06 in.) thick silencer)

- \*1. L.H. drive vehicles: Right side  
R.H. drive vehicles: Left side
- \*2. L.H. drive vehicles: Left side  
R.H. drive vehicles: Right side
- \*3. Diesel-powered vehicles with turbocharger
- \*4. Standard body vehicles

Van

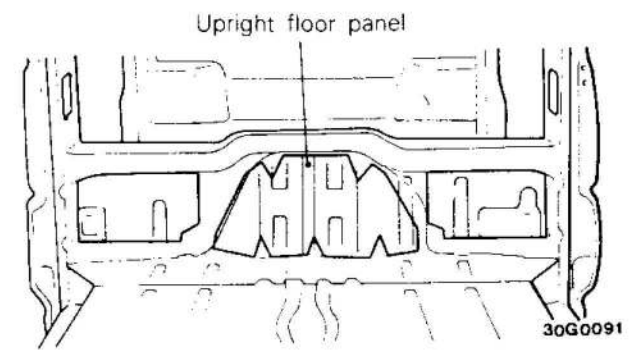
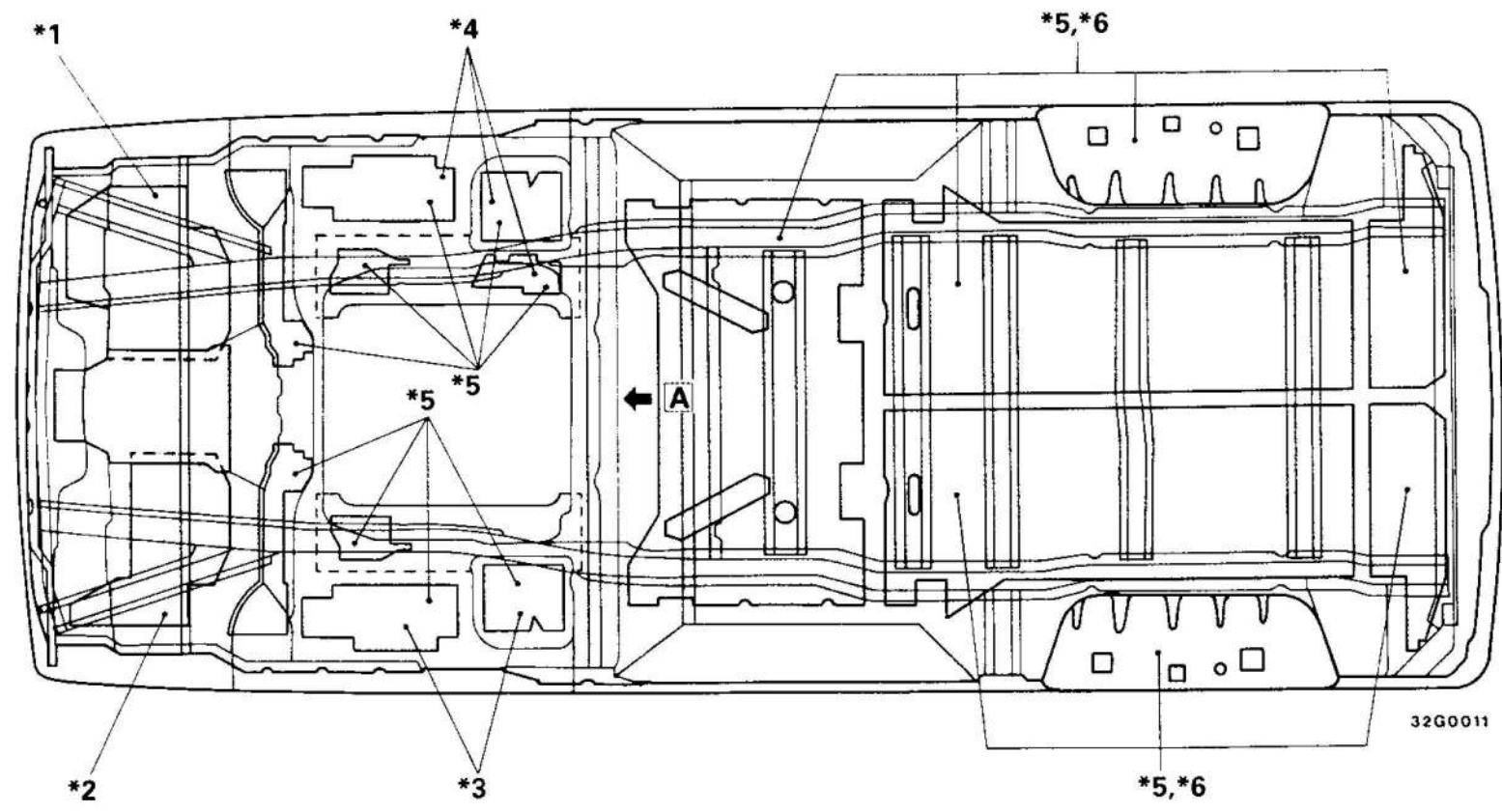
NOTES

Vehicles for General Export

Applicable from '89 models ..... \*3, \*4, \*5 and figure A

Mitsubishi Motors Corporation DEC. 88

PWWER8608-E



- \*1 LH drive vehicles: Right side  
RH drive vehicles: Left side
- \*2 LH drive vehicles: Left side  
RH drive vehicles: Right side
- \*3 LH drive vehicles only
- \*4 RH drive vehicles only
- \*5 Mini-bus (diesel-powered vehicles)
- \*6 Mini-bus (XL, EXCEED)

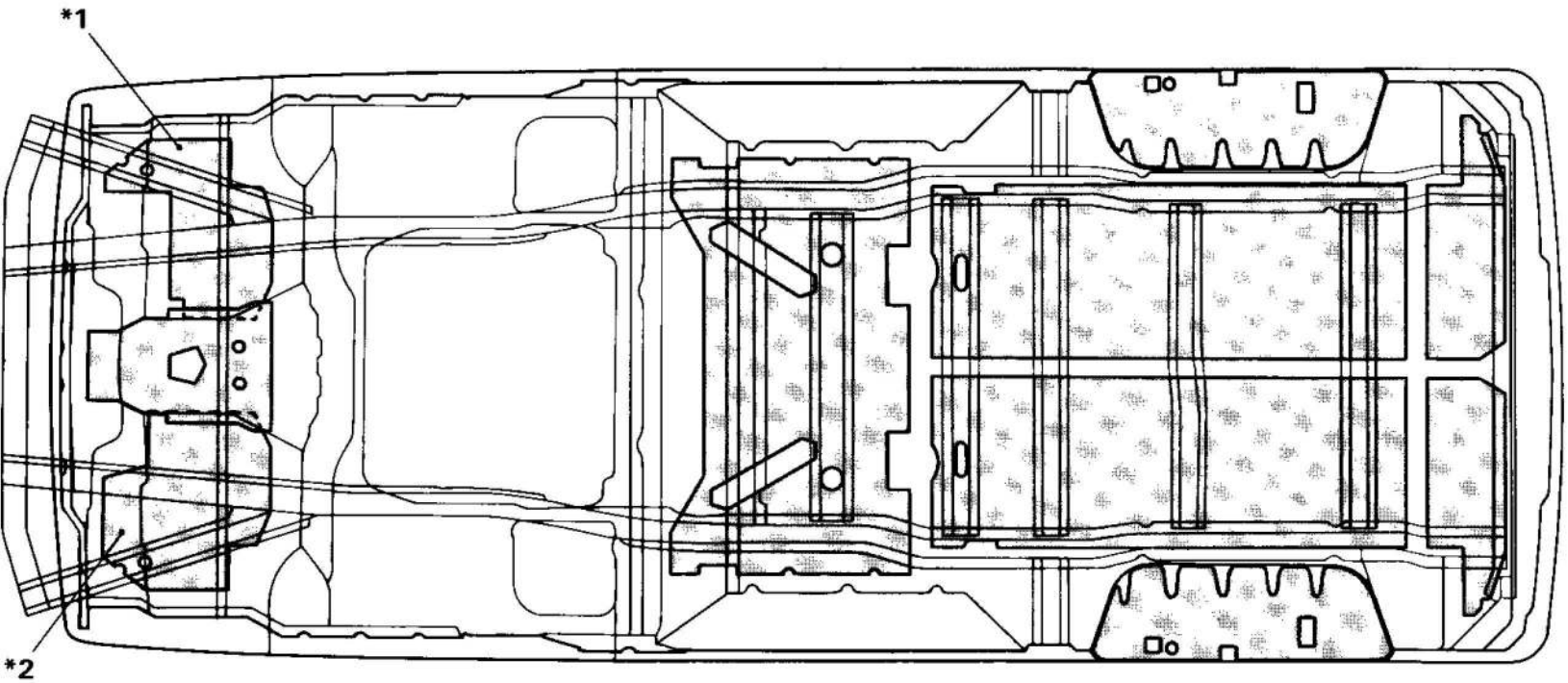
REVISED

: 1.6 mm (0.06 in.) thick


**A** [Mini-bus (diesel-powered vehicles)]



31G0038

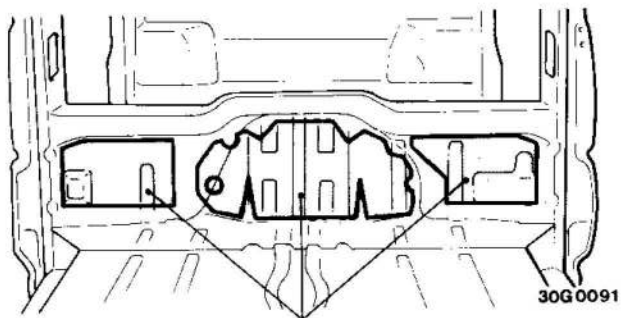
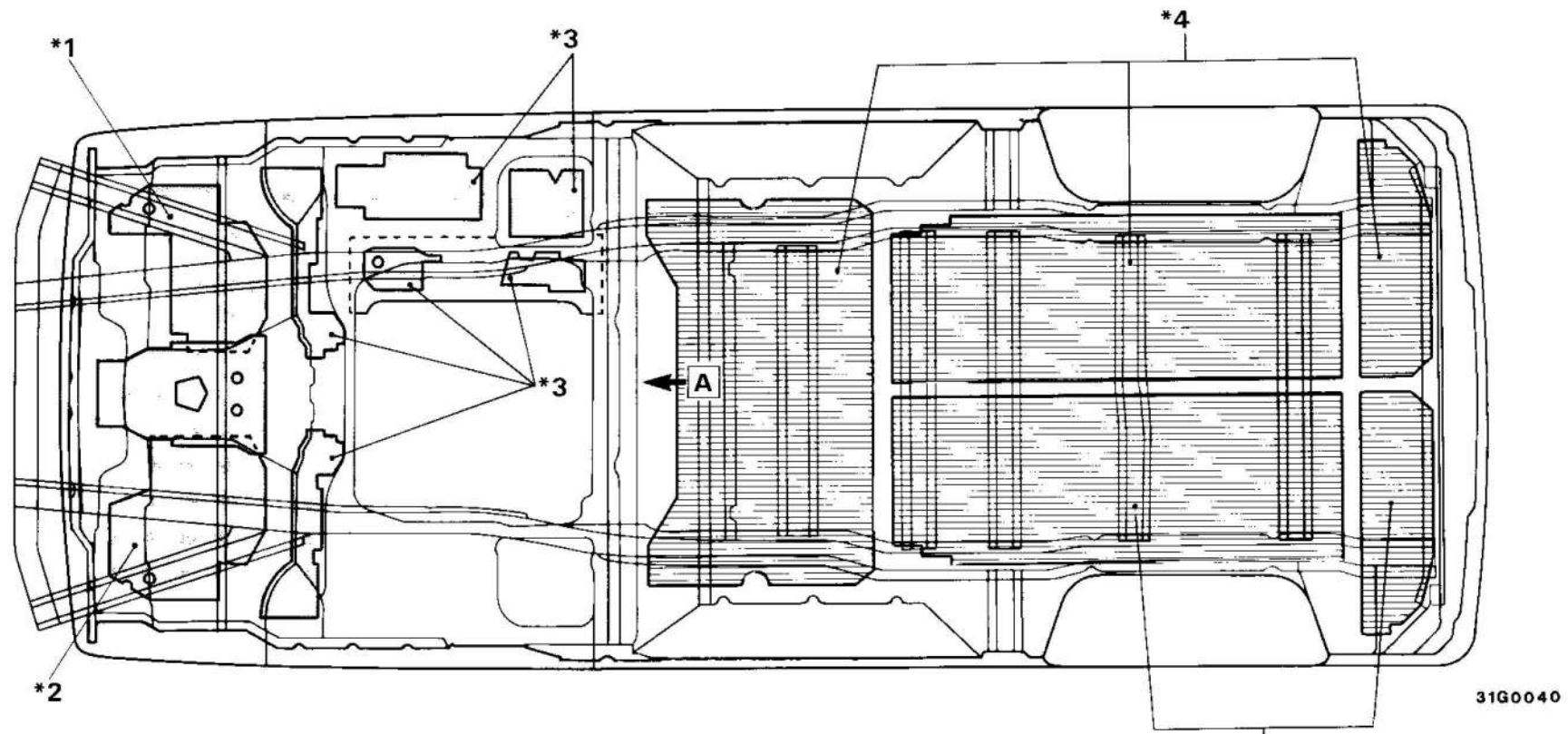


- \*1. L.H. drive vehicles: Right side  
R.H. drive vehicles: Left side
- \*2. L.H. drive vehicles: Left side  
R.H. drive vehicles: Right side



 : 1.6mm (0.06 in.) thick

Vehicles for Australia  
Mini-bus

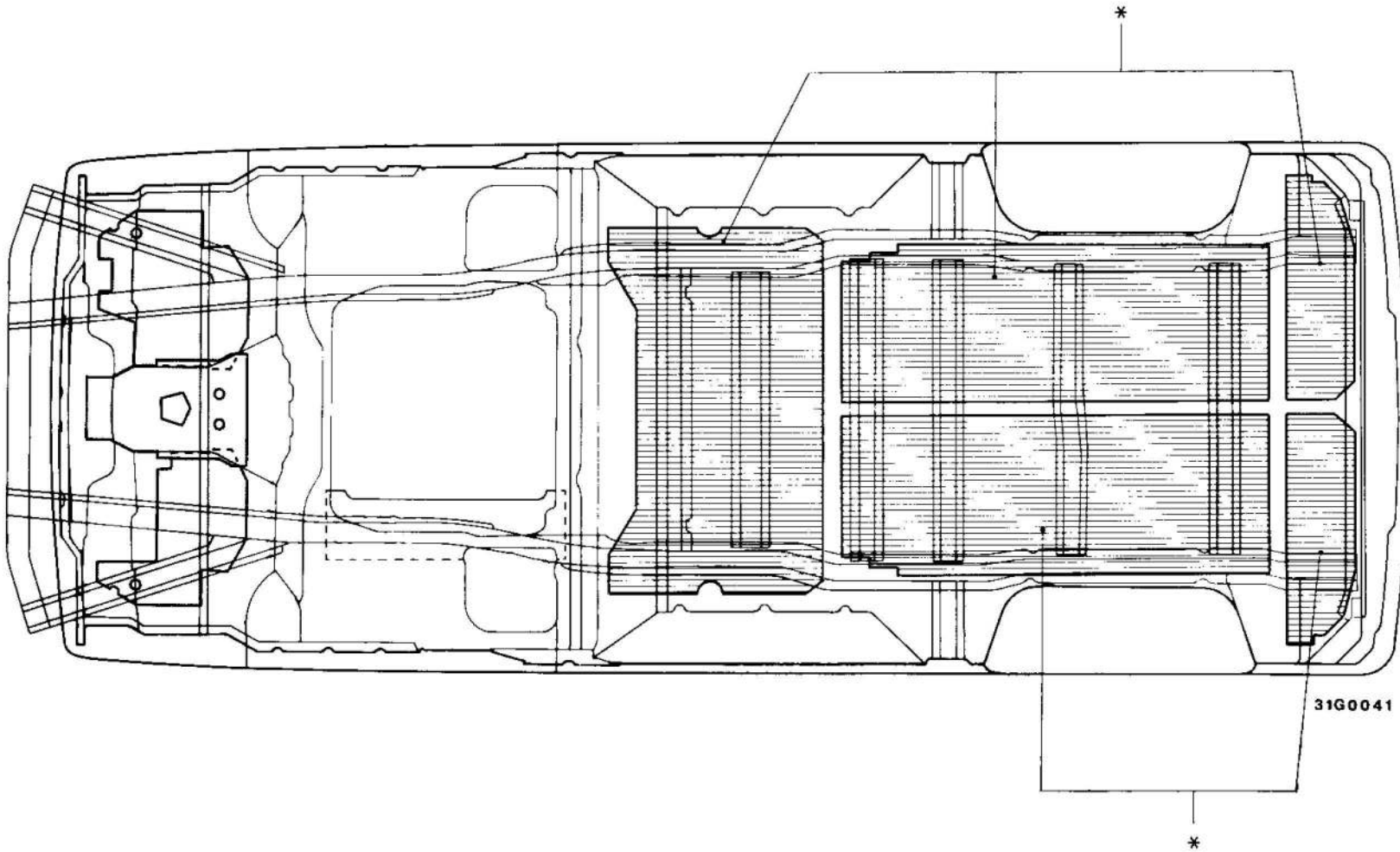
Van (Vehicles built up to June 1991)





- \*1. L.H. drive vehicles: Right side  
R.H. drive vehicles: Left side
- \*2. L.H. drive vehicles: Left side  
R.H. drive vehicles: Right side
- \*3. Diesel-powered vehicles
- \*4. 4WD

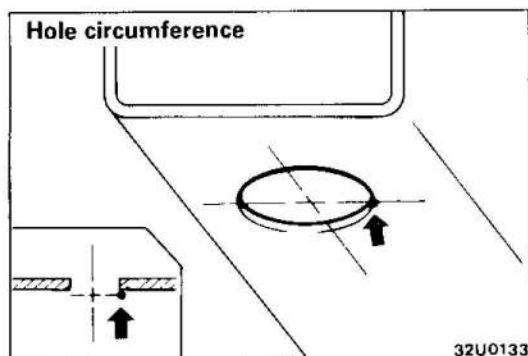
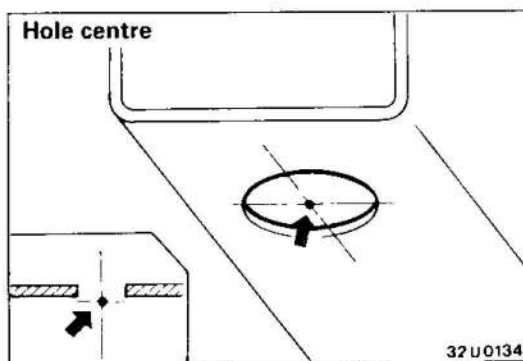
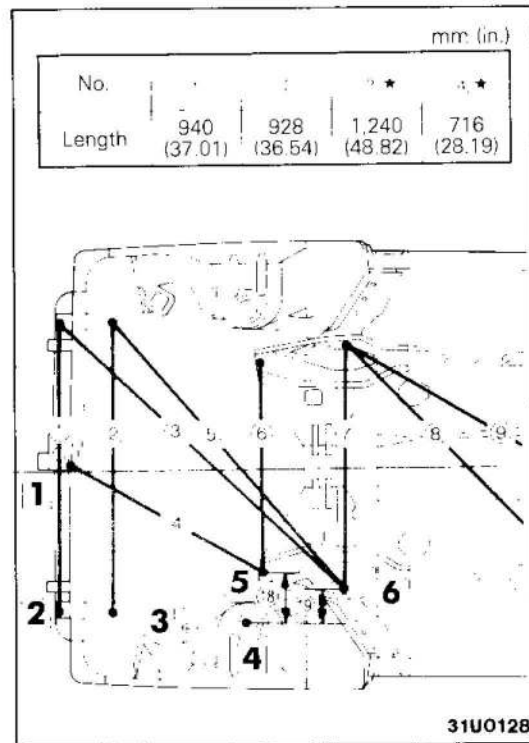
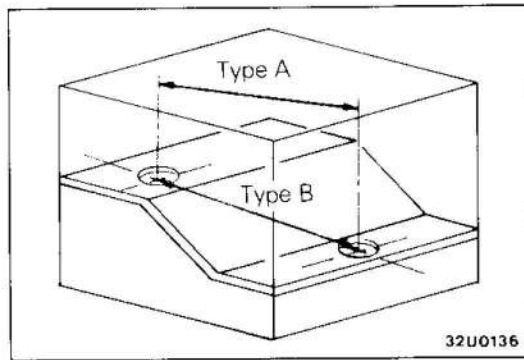
 : 1.6 mm (0.06 in.) thick  
 : 6.4 mm (0.25 in.) [four layers of 1.6 mm (0.06 in.)] thick silencer

(Vehicles built from July 1991)



-  : 1.6 mm (0.06 in.) thick
-  : 6.4 mm (0.25 in.) [four layers of 1.6 mm (0.06 in.)] thick silencer

\*: 4WD



## BODY DIMENSIONS

### BODY DIMENSIONS AND MEASUREMENT METHODS

#### HOW BODY DIMENSIONS ARE INDICATED

1. Type A (Projected dimensions)  
These are the dimensions measured when the measurement points are projected into the reference plane, and are the reference dimensions used for body alterations.
2. Type B (Actual-measurement dimensions)  
These dimensions indicate the actual linear distance between measurement points, and are the reference dimensions for use if a tracking gauge is used for measurements.
3. The units given for the dimensions of both types (A and B) are mm (in.).

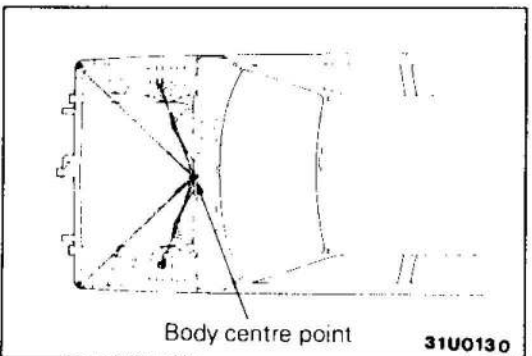
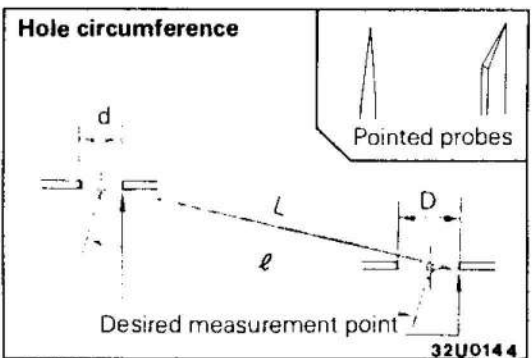
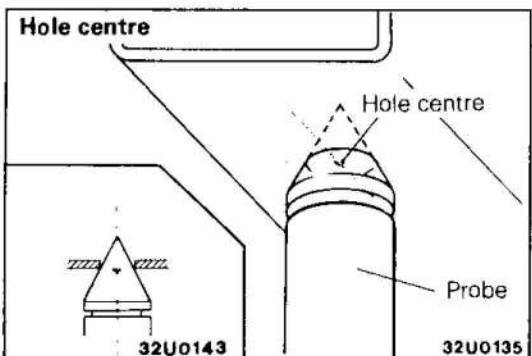
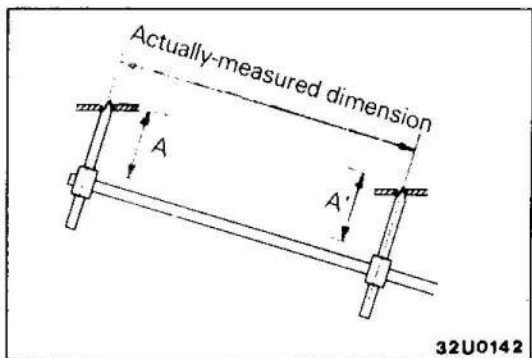
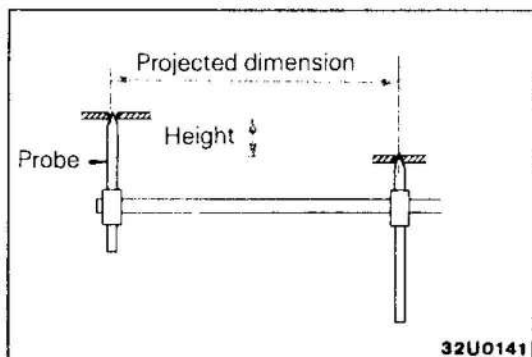
#### Indication of reference dimensions

If the reference dimension number (in a circle) shown on the top line of the dimension table at left is marked with "★", measurements are taken of this dimension and another which are symmetrical with respect to the car centerline.

#### MEASUREMENT POINTS

Measurement points are used to indicate the following:

1. If a measurement is to be made at a hole centre, the point of the surface from which the measuring instrument is applied is the measurement point.
2. If a measurement is to be made at the circumference of a hole, the point of the hole circumference of the surface from which the measuring instrument is applied is the measurement point.



**MEASUREMENT METHODS (using a tracking gauge)**

**NOTE**

Use a tracking gauge without looseness between gauge body and probes.

**1. Type A (projected dimensions)**

If the length of the tracking gauge probes are adjustable, make the measurement by lengthening one probe by the amount equivalent to the difference in height of the two surfaces.

**2. Type B (actual-measurement dimensions)**

Measure by first adjusting both probes to the same length (A = A')

**3. If hole diameters are same and the probes are conical**

For both Type A and Type B, insert the probes into the holes, and then make the measurement. This method of measurement should be used if the diameters of the holes in the location to be measured are the same.

**4. If hole diameters are different, or the probes are pointed**

Because measurement at the hole centre is impossible, the circumferences must be used instead.

**How to determine dimensions**

Desired dimensions:  $L = l + \frac{D - d}{2}$  mm (in.)

Example: Reference dimensions:  $l = 600$  (23.6)

Measured hole diameters:  $D = 20\phi$  (0.79)

$d = 10\phi$  (0.39)

Desired dimension:

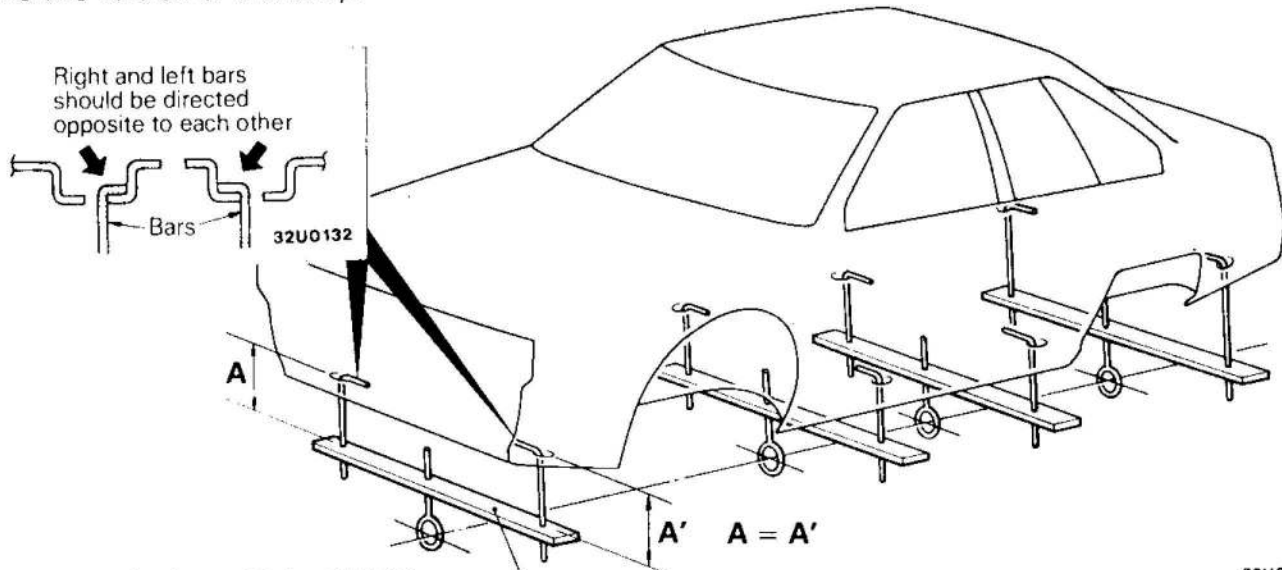
$$L = 600 (23.6) + \frac{20\phi (0.79) - 10\phi (0.39)}{2} = 605 (23.8)$$

**BODY CENTRE POINTS**

When measuring locations that should be symmetrical left and right and there are no specific instructions with regard to measurements in "Body Dimensions", the body centre points should be used to confirm that the left and right measurements from these points are the same. One body centre point is specified for the front of the body and another is specified for the rear.

**FRAME CENTERING GAUGE INSTALLATION POSITIONS**

Mount the frame centering gauges at locations indicated in illustration to check for horizontal and vertical bend and torsion of the body.

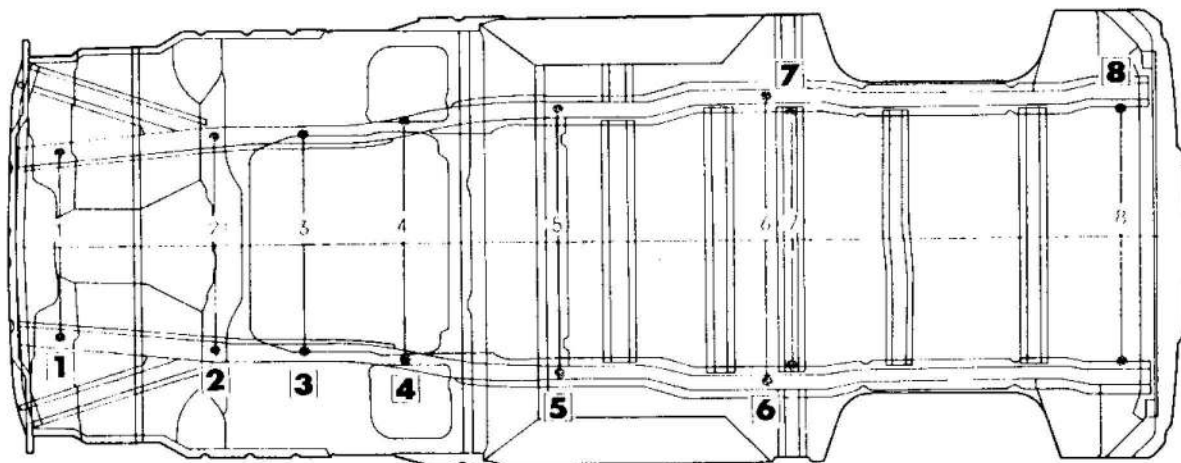


32U0137

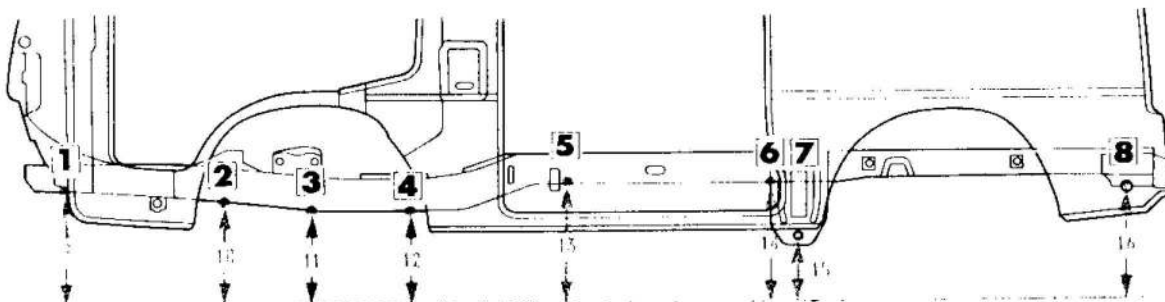
**Standard body vehicles (2WD)** Frame centering gauge

mm (in.)

No.	1	2	3	4	5	6	7	8	9	10	11	12	13
Length	640 (25.20)	740 (29.13)	740 (29.13)	784 (30.87)	898 (35.35)	980 (38.58)	921 (36.26)	920 (36.22)	265 (10.43)	220 (8.66)	191 (7.52)	187 (7.36)	258 (10.16)
No.	14	15	16										
Length	275 (10.83)	100 (3.94)	239 (9.41)										

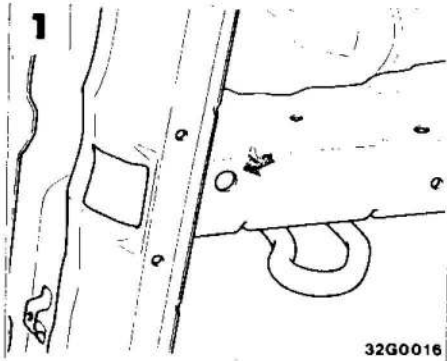


32G0011

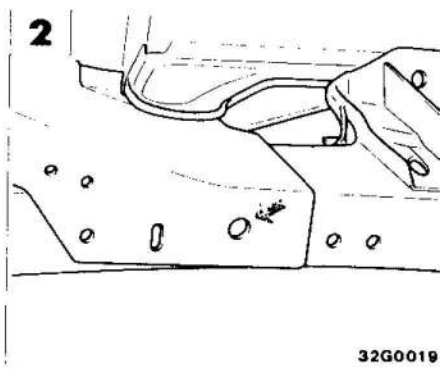


**NOTE**

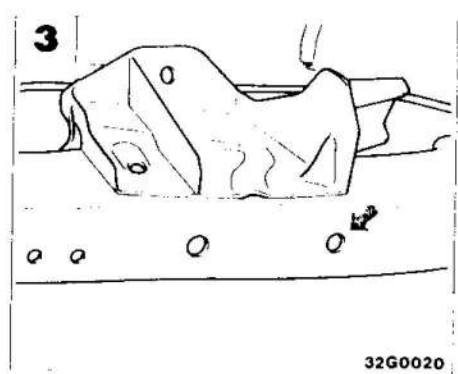
Dimensions shown in the side view are the distances from the bottom end of the panel at each measurement point, not including the panel thickness.



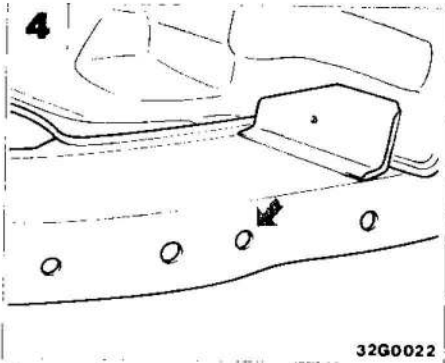
1  
Front sidemember (A) locating hole  
[diameter: 15 mm (0.59 in.)]



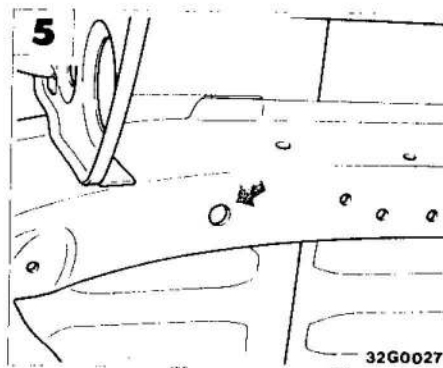
2  
Front sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



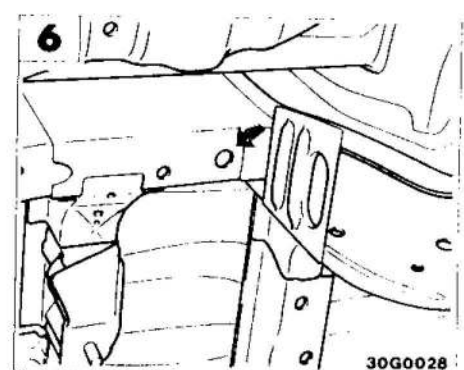
3  
Centre sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



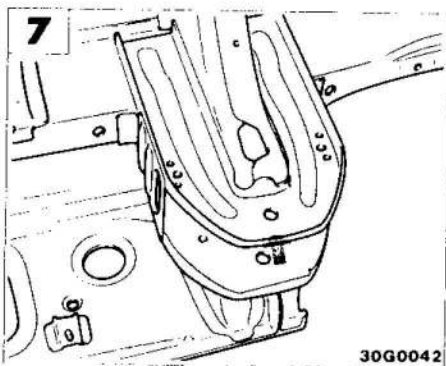
4  
Centre sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



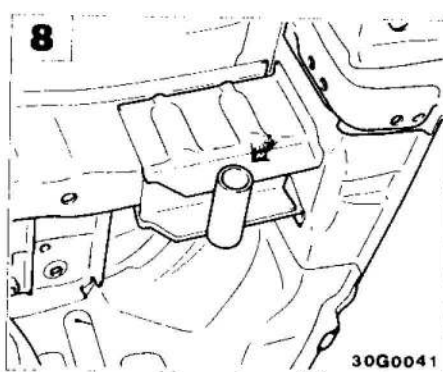
5  
Centre sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



6  
Rear sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



7  
Leaf spring pin mounting hole  
[diameter: 14 mm (0.55 in.)]

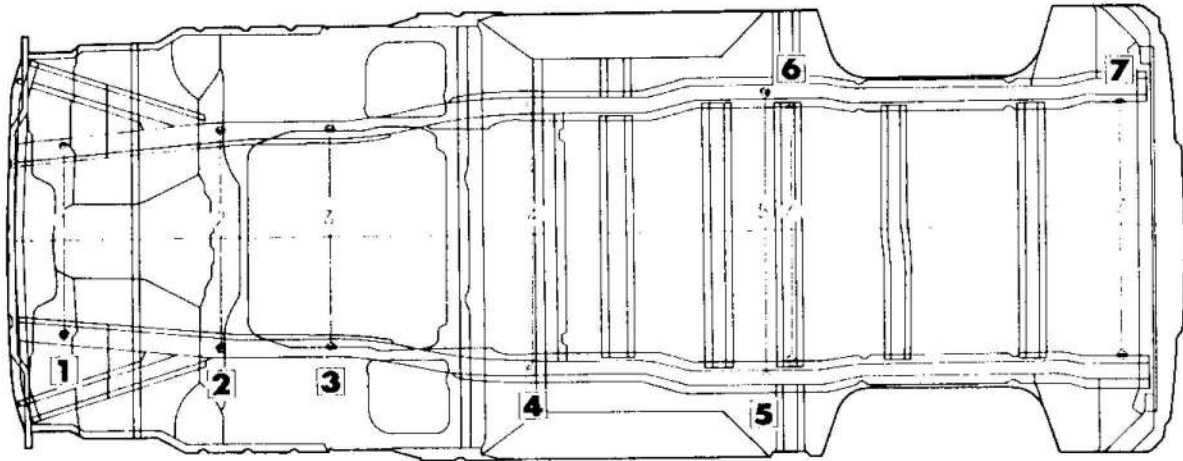


8  
Leaf spring shackle mounting hole  
[diameter: 28 mm (1.10 in.)]

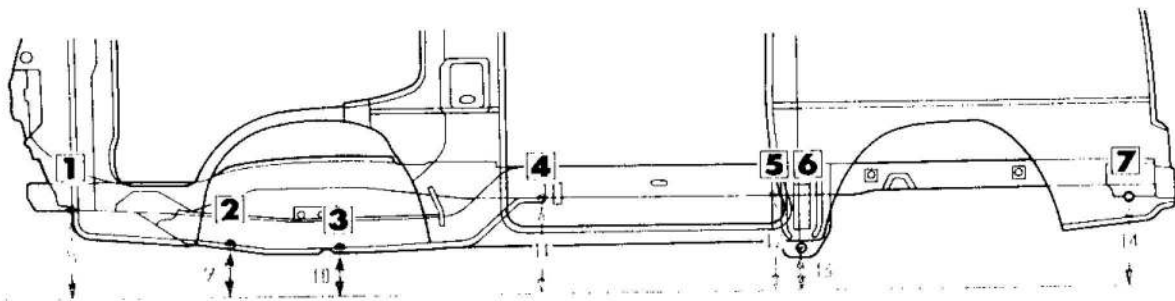
Standard body vehicles (4WD)

mm (in.)

No.	1	2	3	4	5	6	7	8	9	10	11	12	13
Length	640 (25.20)	694 (27.32)	760 (29.92)	900 (35.43)	980 (38.58)	921 (36.26)	920 (36.22)	265 (10.43)	136 (5.35)	115 (4.53)	272 (10.71)	275 (10.83)	100 (3.94)
No.	11												
Length	239 (9.41)												



32G0011

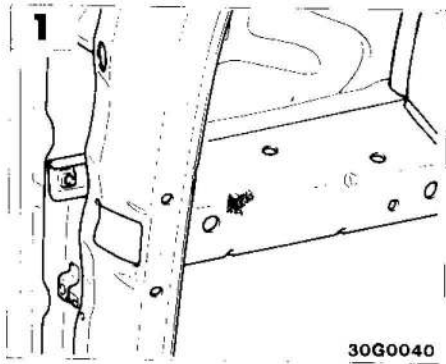


32G0008

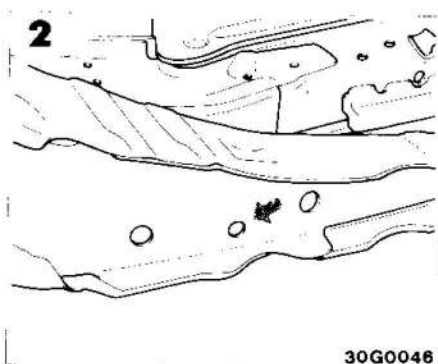
NOTE

Dimensions shown in the side view are the distances from the bottom end of the panel at each measurement point, not including the panel thickness.

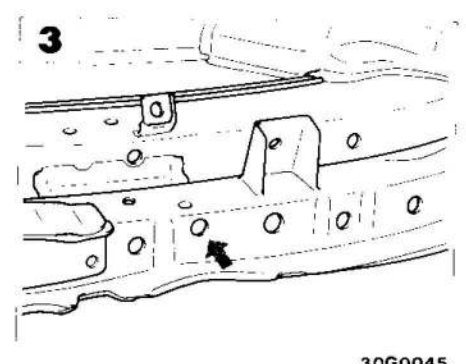




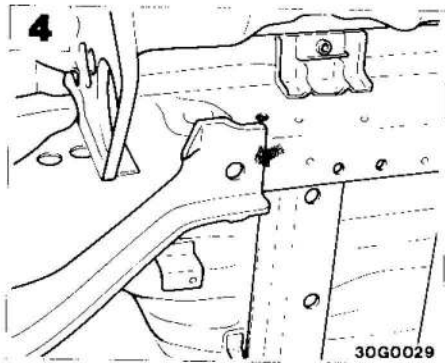
30G0040  
Front sidemember (A) locating hole  
[diameter: 15 mm (0.59 in.)]



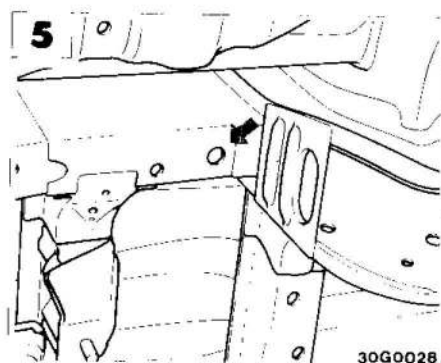
30G0046  
Centre sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



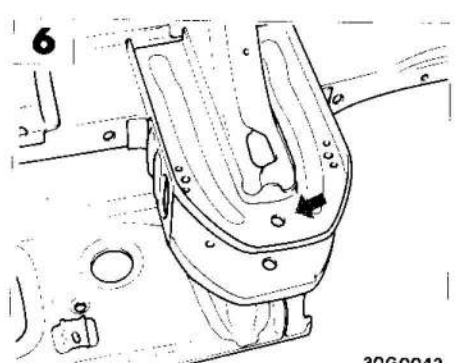
30G0045  
Centre sidemember locating hole  
[diameter: 15 mm (0.59 in.)]



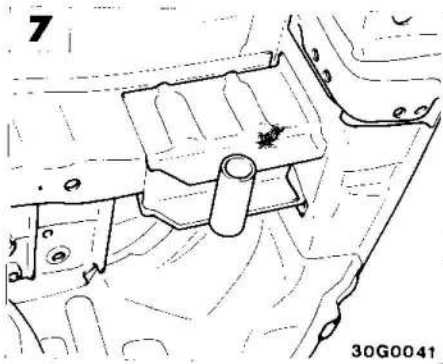
30G0029  
Centre sidemember locating hole  
[diameter: 15 mm (0.59 in.)]



30G0028  
Rear sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



30G0042  
Leaf spring pin mounting hole  
[diameter: 14 mm (0.55 in.)]

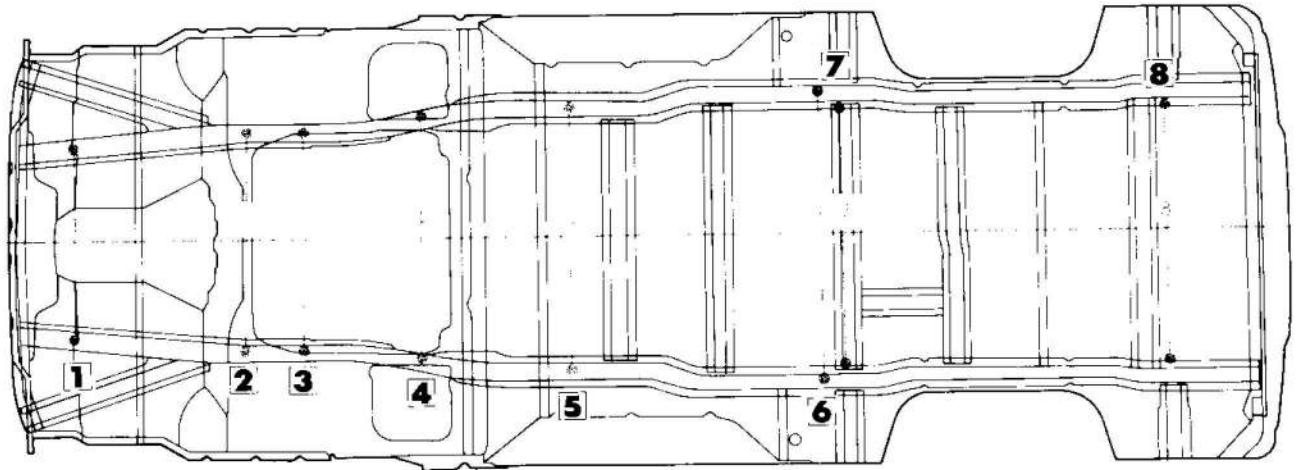


30G0041  
Leaf spring shackle mounting hole  
[diameter: 28 mm (1.10 in.)]

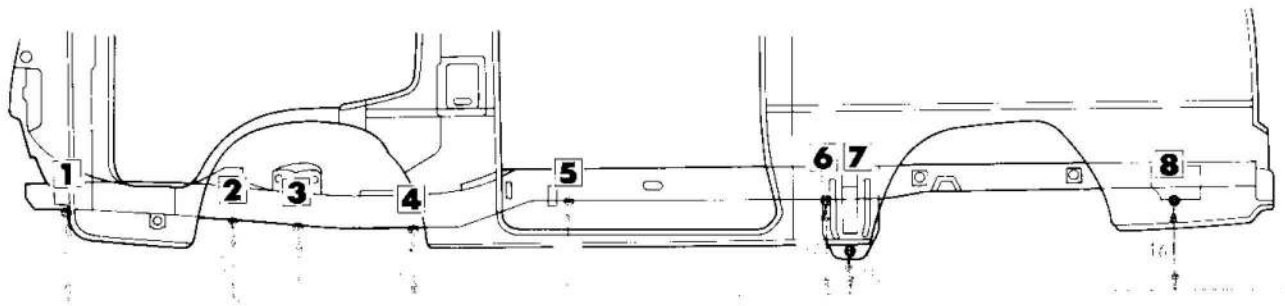
Long body vehicles (2WD)

mm (in.)

No.	1	2	3	4	5	6	7	8	9	10	11	12	13
Length	640 (25.20)	740 (29.13)	740 (29.13)	784 (30.87)	898 (35.35)	980 (38.58)	921 (36.26)	920 (36.22)	265 (10.43)	220 (8.66)	191 (7.52)	187 (7.36)	258 (10.16)
No.	14	15	16										
Length	275 (10.83)	100 (3.94)	239 (9.41)										



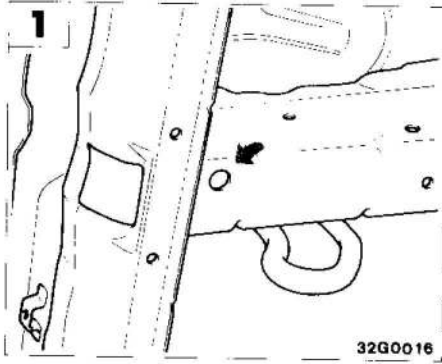
32G0010



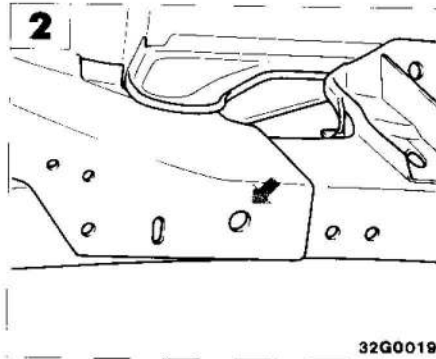
32G0005

NOTE

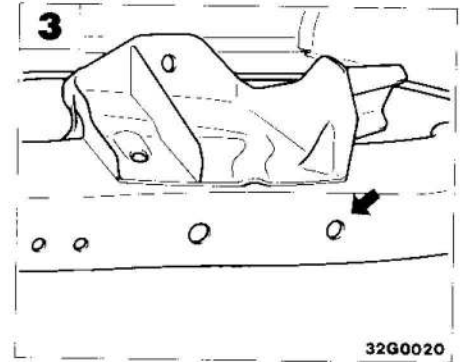
Dimensions shown in the side view are the distances from the bottom end of the panel at each measurement point, not including the panel thickness.



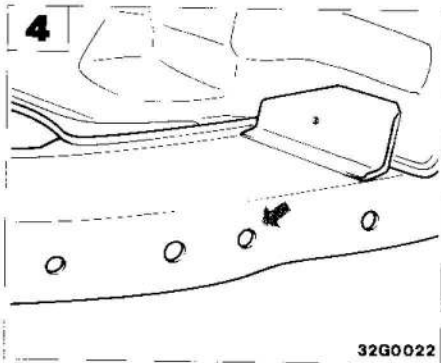
1  
Front sidemember (A) locating hole  
[diameter: 15 mm (0.59 in.)]



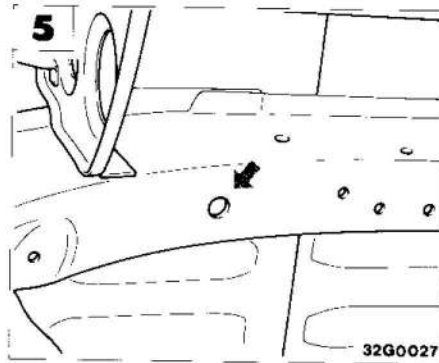
2  
Front sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



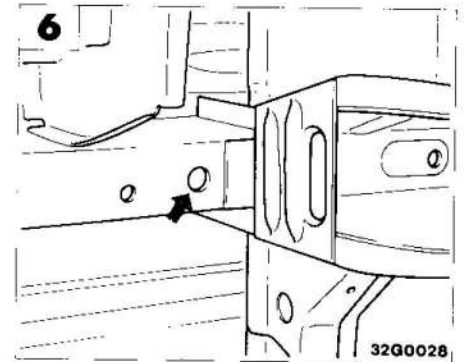
3  
Centre sidemember water drain hole  
[diameter: 16 mm (0.63 in.)]



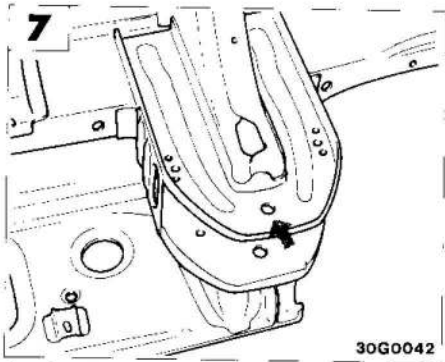
4  
Centre sidemember water drain hole  
[diameter: 16 mm (0.63 in.)]



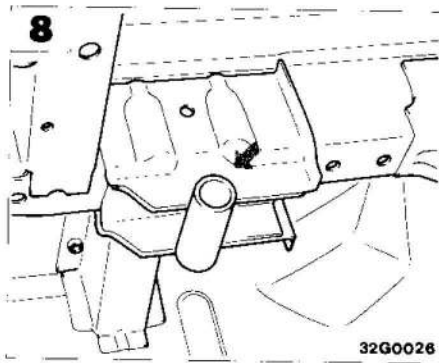
5  
Centre sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



6  
Rear sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



7  
Leaf spring pin mounting hole  
[diameter: 14 mm (0.55 in.)]

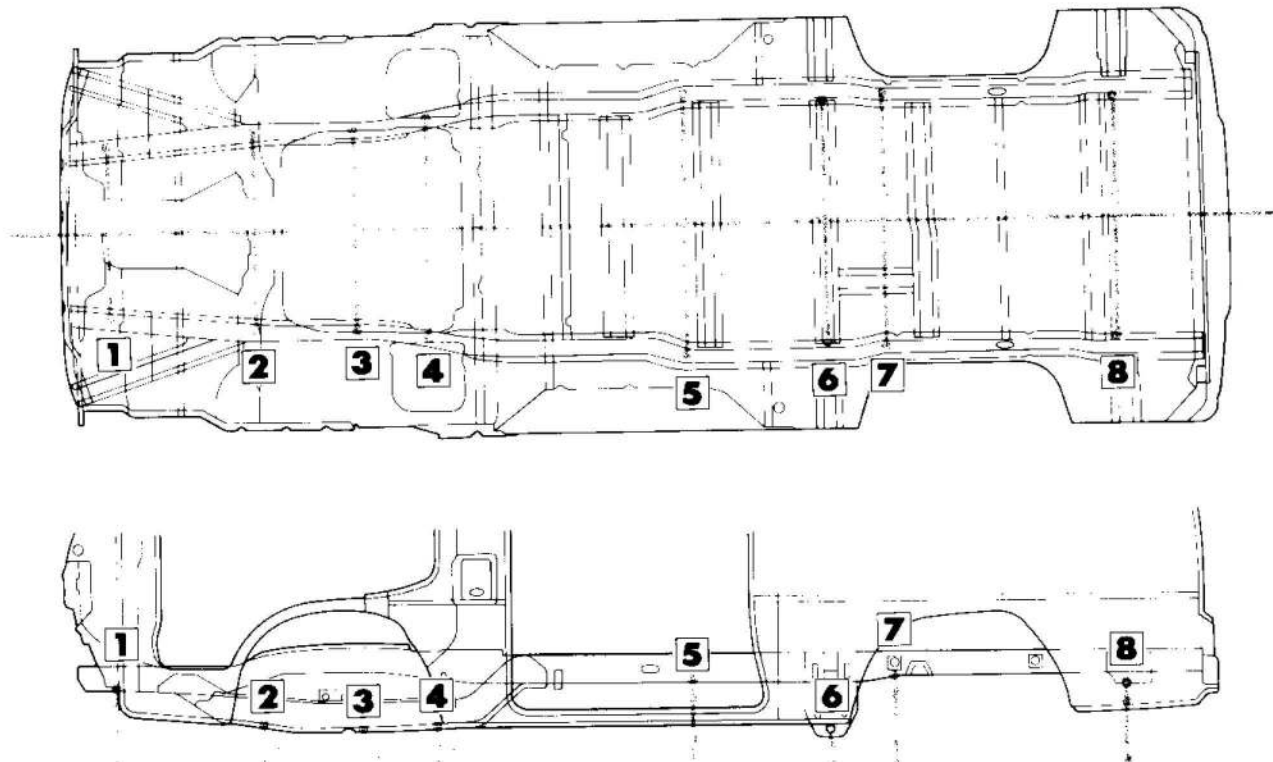


8  
Leaf spring shackle mounting hole  
[diameter: 28 mm (1.10 in.)]

Long body vehicles (4WD)

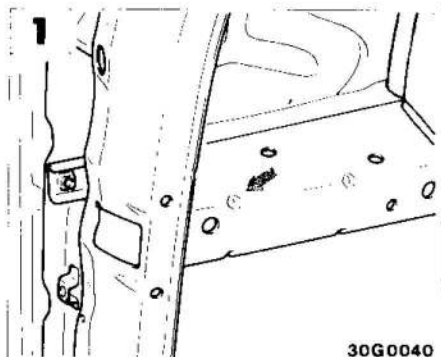
mm (in.)

No.													
Length	640 (25.20)	694 (27.32)	760 (29.92)	846 (33.31)	990 (38.98)	921 (36.26)	970 (38.19)	920 (36.22)	265 (10.43)	136 (5.35)	115 (4.53)	128 (5.04)	275 (10.83)
No.													
Length	100 (3.94)	284 (11.18)	260 (10.24)										



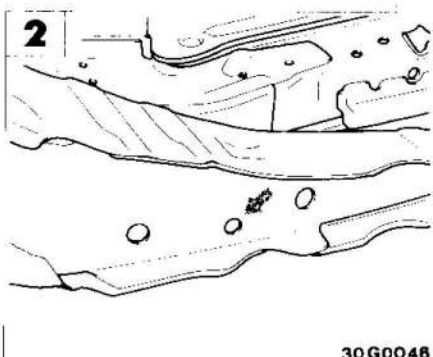
32G0060

NOTE  
Dimensions shown in the side view are the distances from the bottom end of the panel at each measurement point, not including the panel thickness.



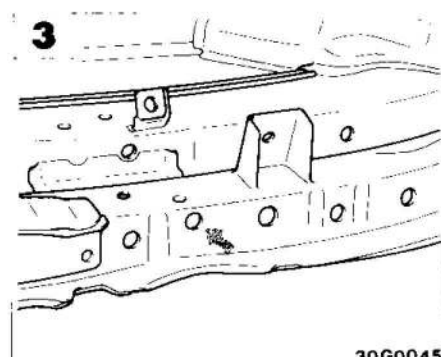
30G0040

Front sidemember (A) locating hole  
[diameter: 15 mm (0.59 in.)]



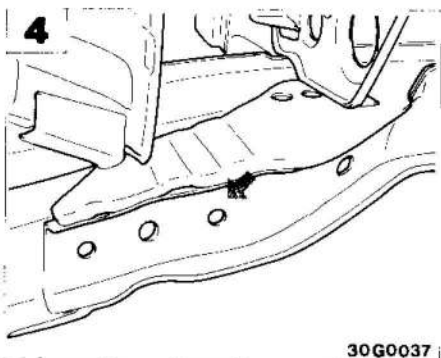
30G0048

Centre sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



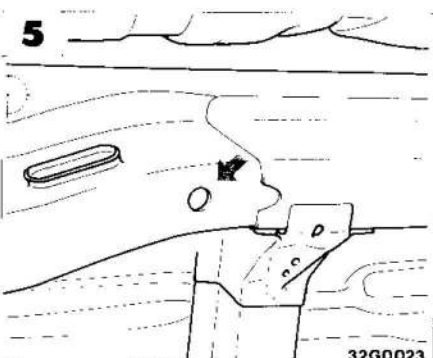
30G0045

Centre sidemember locating hole  
[diameter: 15 mm (0.59 in.)]



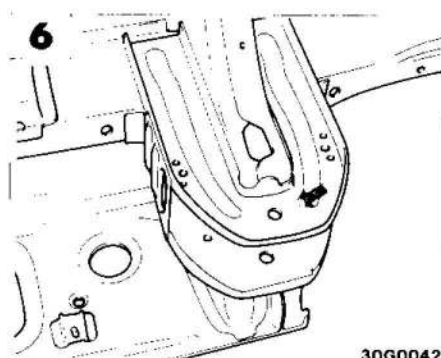
30G0037

Engine support crossmember mounting  
hole [diameter: 13mm (0.51 in.)]



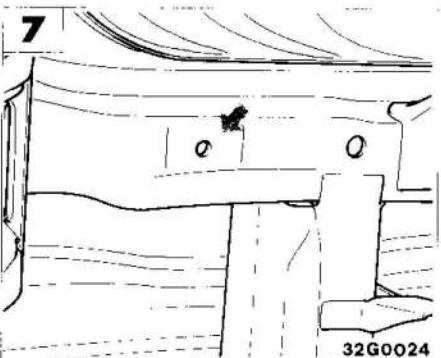
32G0023

Centre sidemember water drain hole  
[diameter: 15mm (0.59 in.)]



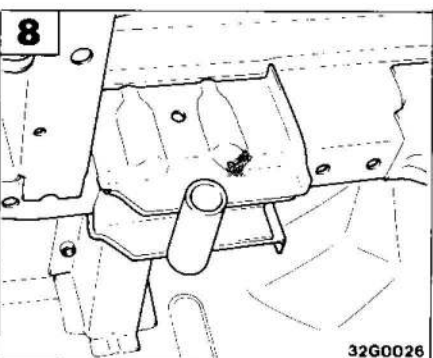
30G0042

Leaf spring pin mounting hole  
[diameter: 14 mm (0.55 in.)]



32G0024

Rear sidemember water drain hole  
[diameter: 15mm (0.59 in.)]



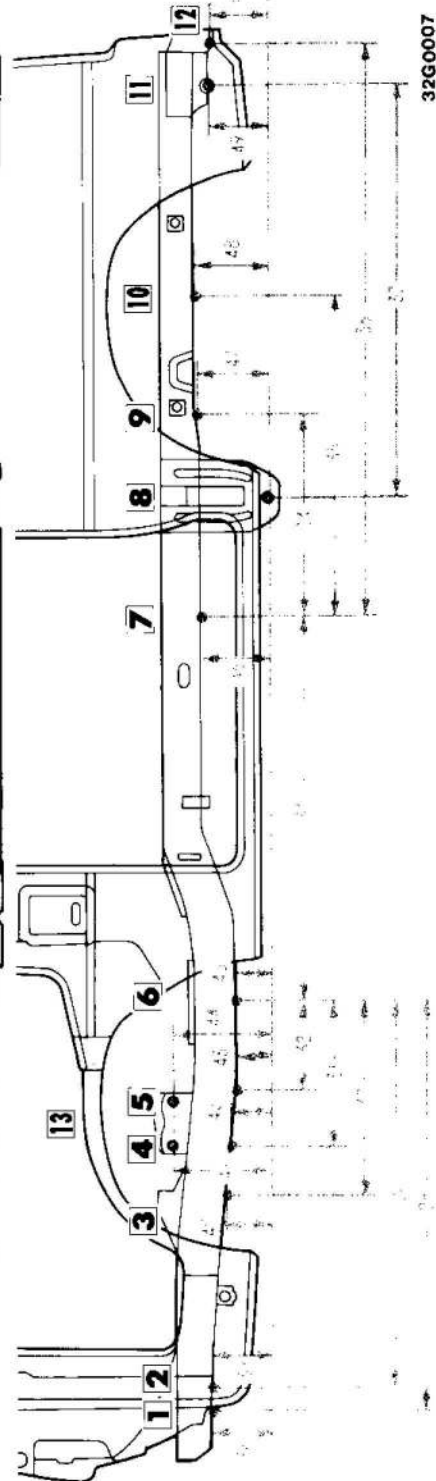
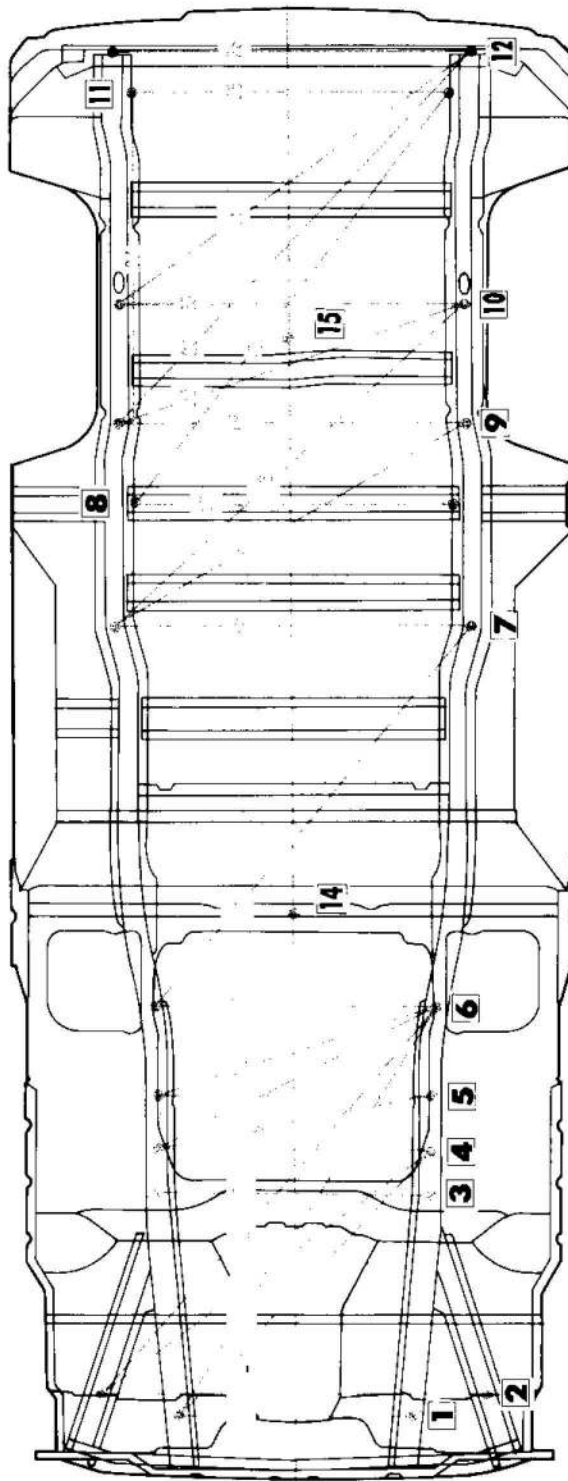
32G0026

Leaf spring shackle mounting hole  
[diameter: 28mm (1.10 in.)]

TYPE A (PROJECTED DIMENSIONS)

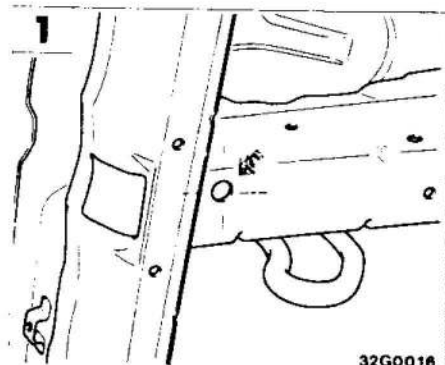
Standard body vehicles (2WD)

		mm (in.)															
No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Length	640 (25.20)	1,100 (43.31)	1,083 (42.64)	1,390 (54.72)	1,193 (46.97)	1,461 (57.52)	740 (29.13)	740 (29.13)	771 (30.35)	836 (32.91)	740 (29.13)	767 (30.20)	764 (30.08)	1,388 (54.65)	980 (38.58)	1,145 (45.08)	921 (36.26)
No.		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Length	1,358 (53.46)	970 (38.19)	1,020 (40.16)	1,477 (58.15)	1,420 (55.91)	936 (36.85)	1,168 (45.98)	920 (36.22)	980 (38.58)	1,155 (45.47)	1,200 (47.24)	1,125 (44.29)	550 (21.65)	365 (14.37)	150 (5.91)	600 (23.62)	600 (23.62)
No.		33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Length	963 (37.91)	1,632 (64.25)	1,155 (45.47)	165 (6.50)	165 (6.50)	120 (4.72)	265 (10.43)	100 (3.94)	87 (3.43)	258 (10.16)	87 (3.43)	175 (6.89)	184 (7.24)	195 (7.68)	160 (6.30)	139 (5.47)	139 (5.47)



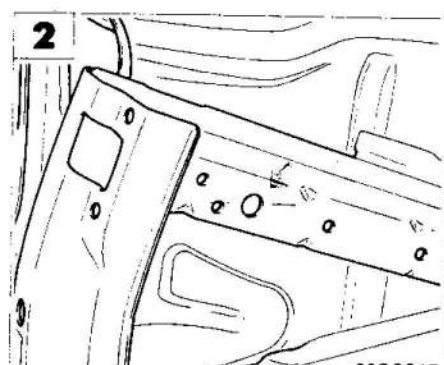
32G0011

32G0007



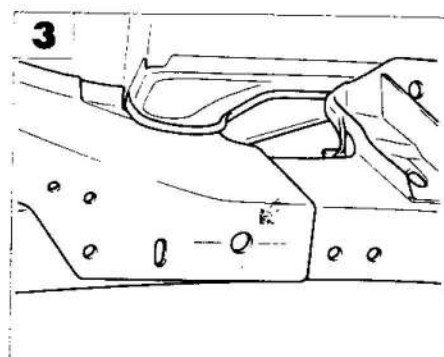
32G0016

Centre of front sidemember (A) locating hole  
[diameter: 15 mm (0.59 in.)]



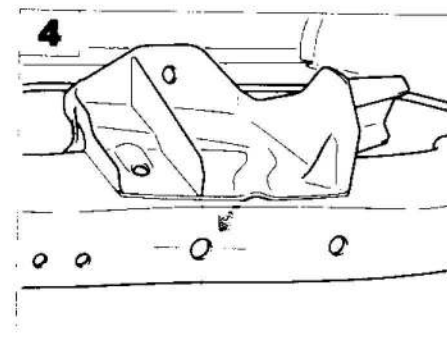
32G0017

Centre of front sidemember (B) locating hole  
[diameter: 15 mm (0.59 in.)]



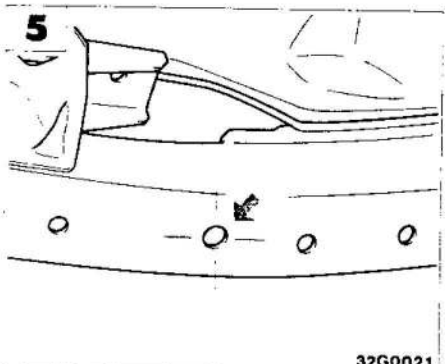
32G0019

Centre of front sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



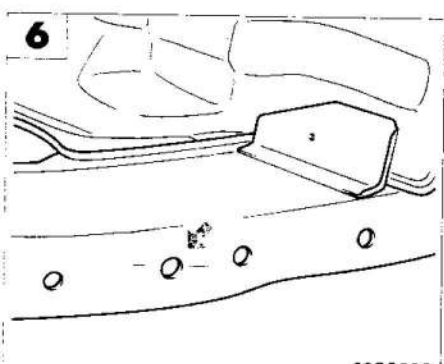
32G0020

Centre of suspension crossmember mounting hole  
[diameter: 17 mm (0.67 in.)]



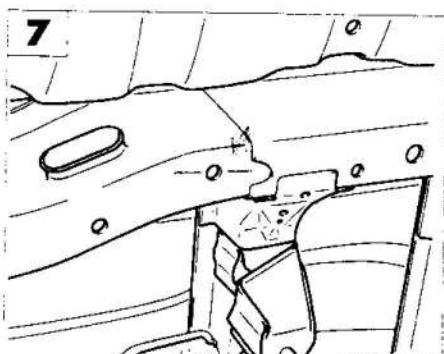
32G0021

Centre of suspension crossmember mounting hole  
[diameter: 17 mm (0.67 in.)]



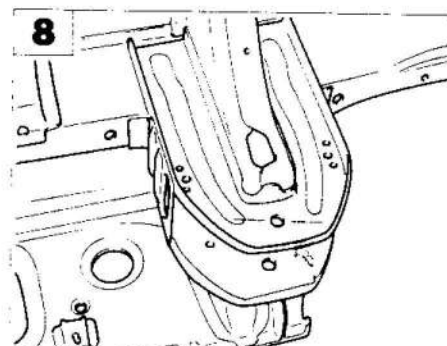
32G0022

Centre of engine support crossmember mounting hole  
[diameter: 17 mm (0.67 in.)]



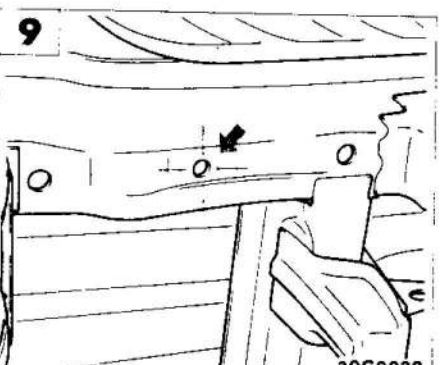
30G0039

Centre of centre sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



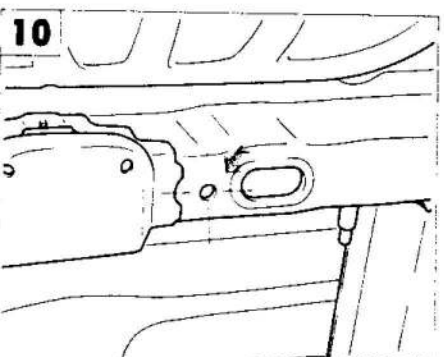
30G0042

Centre of leaf spring pin mounting hole  
[diameter: 14 mm (0.55 in.)]



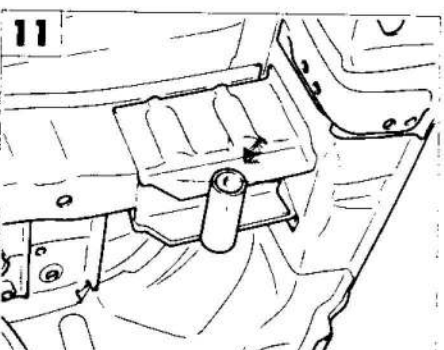
30G0038

Centre of rear sidemember water drain hole  
[diameter: 9 mm (0.35 in.)]



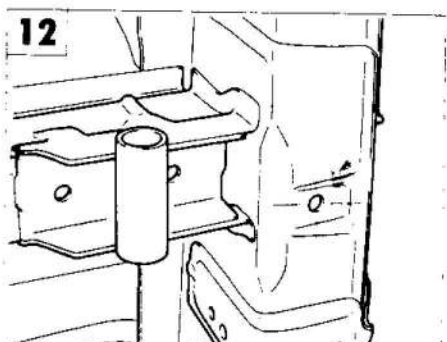
30G0043

Centre of rear sidemember water drain hole  
[diameter: 11 mm (0.43 in.)]



30G0041

Centre of leaf spring shackle mounting hole  
[diameter: 28 mm (1.10 in.)]

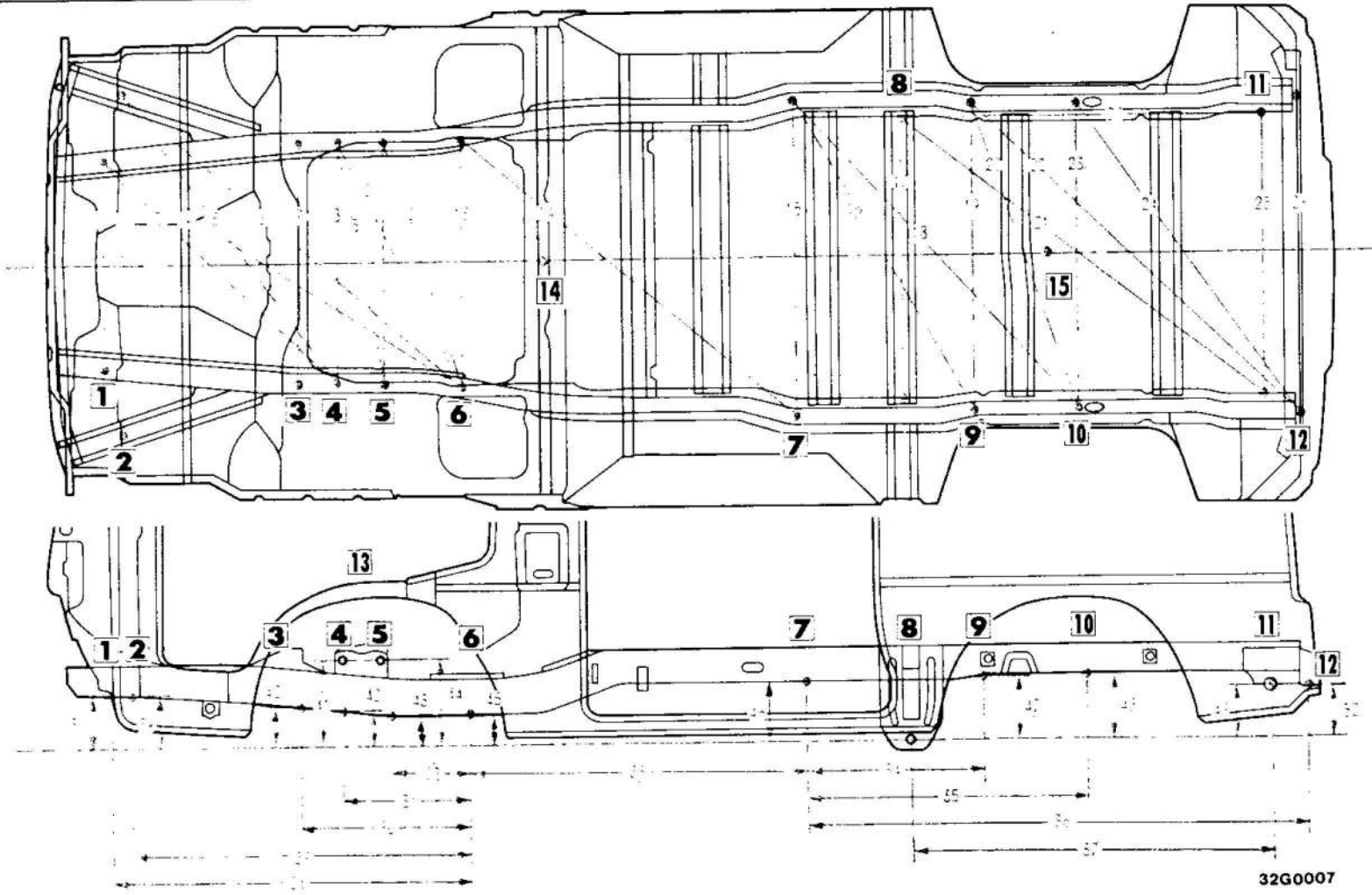


30G0044

Centre of rear bumper bracket mounting hole  
[diameter: 11 mm (0.43 in.)]

mm (in.)

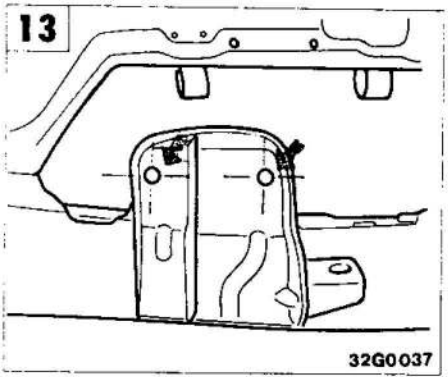
No.	3★	4★	5★	6★	7	8	9★	10★	11★	12★	13	14★	15★	16★	17★	18★	
Length	640 (25.20)	1,100 (43.31)	1,083 (42.64)	1,390 (54.72)	1,193 (46.97)	1,461 (57.52)	740 (29.13)	740 (29.13)	771 (30.35)	836 (32.91)	740 (29.13)	767 (30.20)	764 (30.08)	1,388 (54.65)	980 (38.58)	1,145 (45.08)	921 (36.26)
No.	19★	20★	21★	22★	23	24★	25	26	27★	28	29	30	31	32	33	34	
Length	1,358 (53.46)	970 (38.19)	1,020 (40.16)	1,477 (58.15)	1,420 (55.91)	936 (36.85)	1,168 (45.98)	920 (36.22)	980 (38.58)	1,155 (45.47)	1,200 (47.24)	1,125 (44.29)	550 (21.65)	365 (14.37)	150 (5.91)	1,080 (42.52)	600 (23.62)
No.	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	
Length	963 (37.91)	1,632 (64.25)	1,155 (45.47)	165 (6.50)	165 (6.50)	120 (4.72)	265 (10.43)	100 (3.94)	87 (3.43)	258 (10.16)	87 (3.43)	175 (6.89)	184 (7.24)	195 (7.68)	160 (6.30)	139 (5.47)	



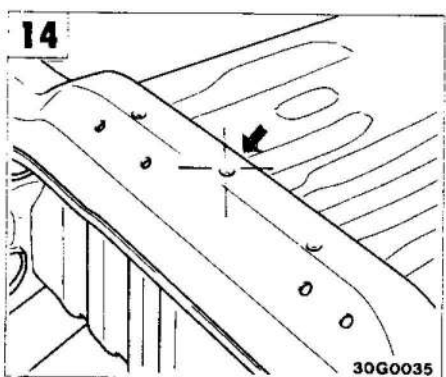
32G0011

32G0007

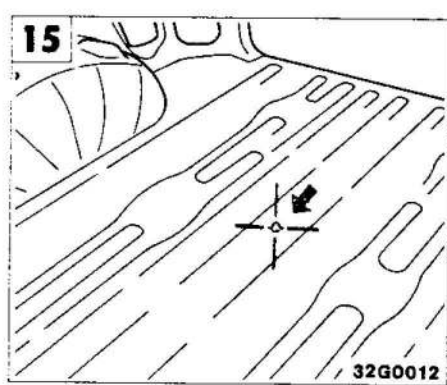




Centre of upper arm shaft mounting hole  
[diameter: 16 mm (0.63 in.)]



Front body centre point reference location

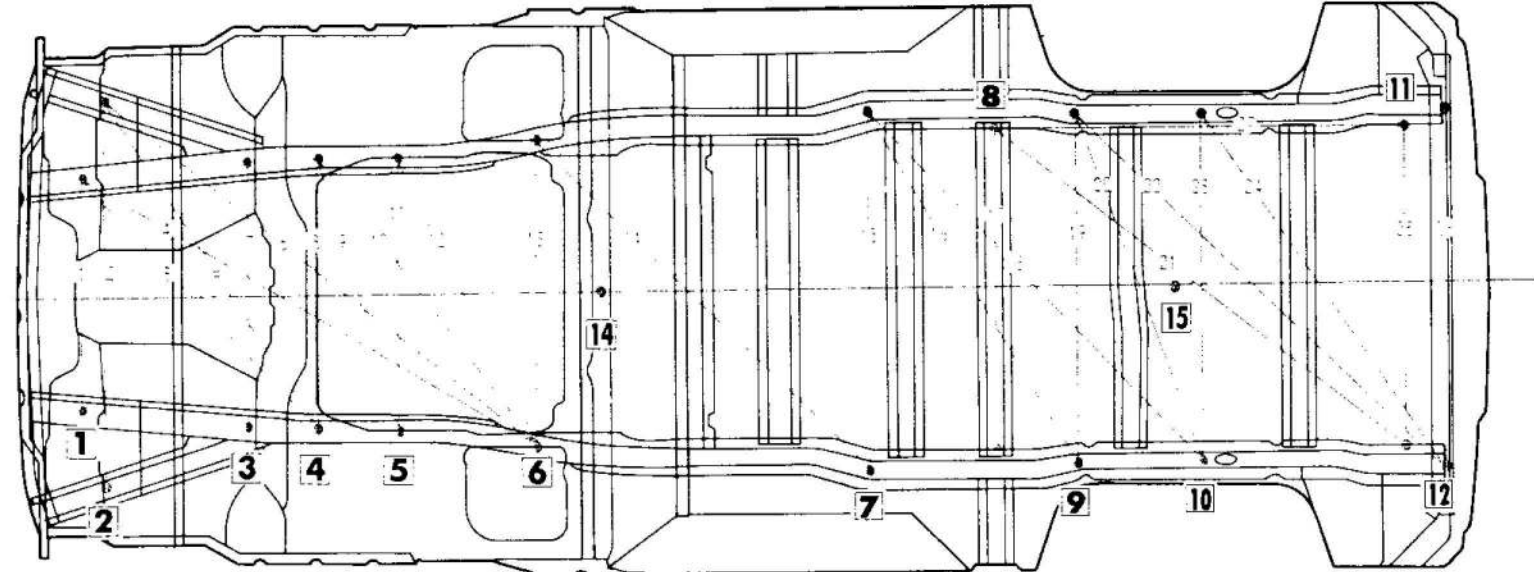


Rear body centre point reference location

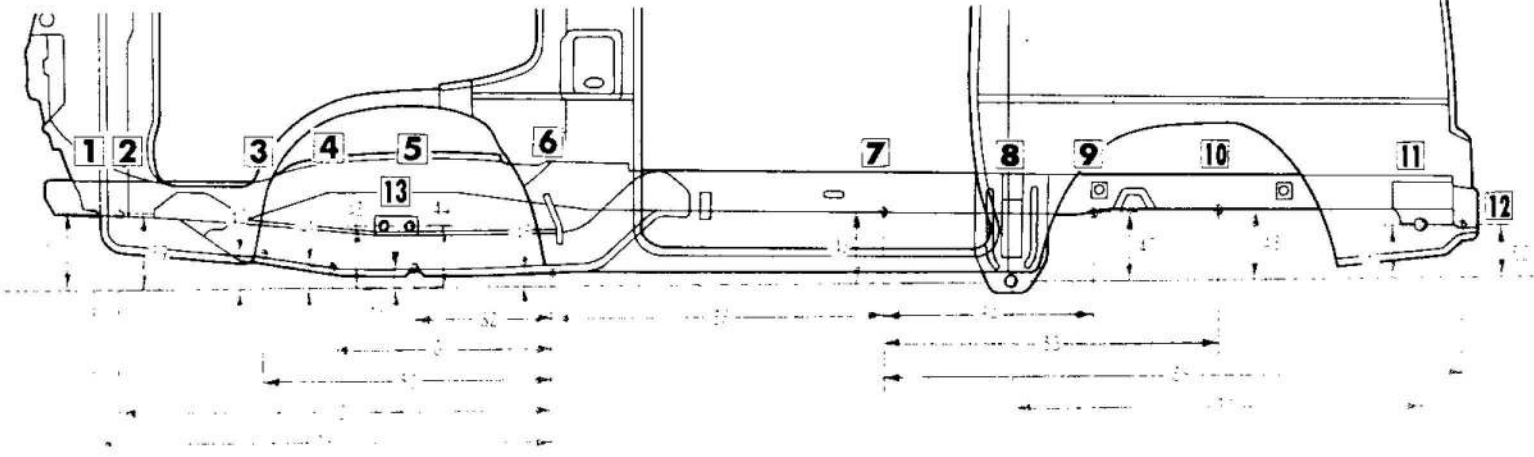
Standard body vehicles (4WD)

mm (in.)

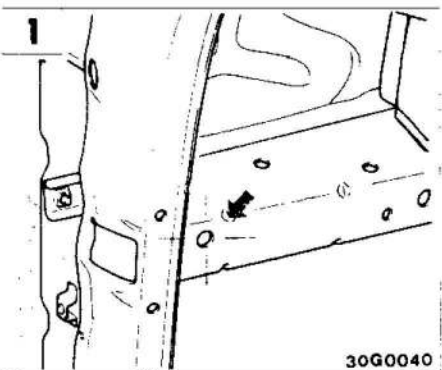
No.	1★	2★	3★	4★	5★	6★	7	8	9★	10★	11★	12★	13★	14★	15★	16★	17★	18★
Length	640 (25.20)	1,100 (43.31)	945 (37.20)	1,594 (62.76)	1,082 (42.60)	1,652 (65.04)	712 (28.03)	736 (28.98)	812 (31.97)	1,098 (43.23)	750 (29.53)	909 (35.79)	846 (33.31)	1,275 (50.20)	990 (38.98)	1,141 (44.92)	921 (36.26)	
No.	1★	2★	2★	25★	26	24★	25	26	27★	28	29	30	31	32	33	34		
Length	1,351 (53.19)	970 (38.19)	1,020 (40.16)	1,477 (58.15)	1,420 (55.91)	936 (36.85)	1,168 (45.98)	920 (36.22)	980 (38.58)	1,155 (45.47)	1,410 (55.51)	1,335 (52.56)	920 (36.22)	762 (30.00)	435 (17.13)	885 (34.84)	585 (23.03)	
No.	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50		
Length	948 (37.32)	1,617 (63.66)	1,155 (45.47)	165 (6.50)	165 (6.50)	49 (1.93)	27 (1.06)	15 (0.59)	148 (5.83)	148 (5.83)	28 (1.10)	175 (6.89)	184 (7.24)	195 (7.68)	160 (6.30)	139 (5.47)		



32G0011

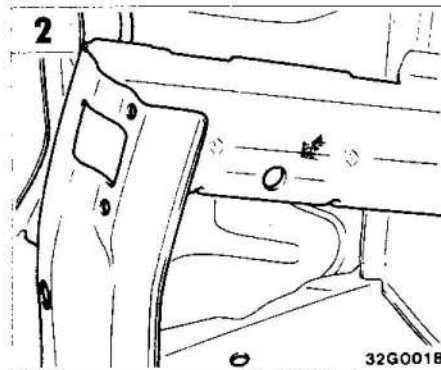


32G0008



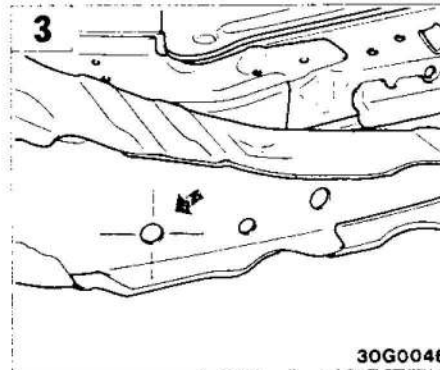
30G0040

Centre of front sidemember (A) locating hole  
[diameter: 15 mm (0.59 in.)]



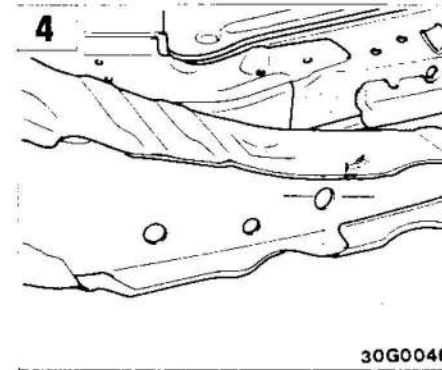
32G0018

Centre of front sidemember (B) locating hole  
[diameter: 15 mm (0.59 in.)]



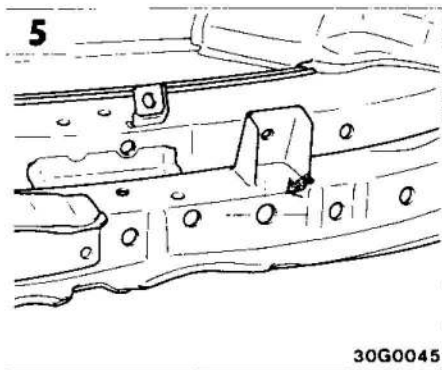
30G0046

Centre of suspension crossmember mounting hole  
[diameter: 18 mm (0.71 in.)]



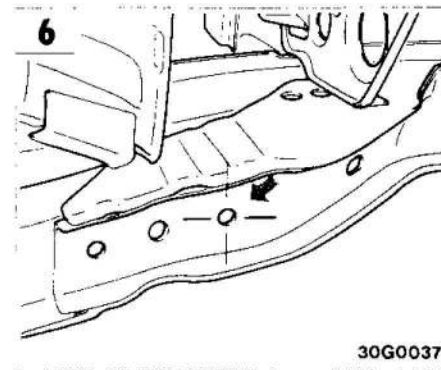
30G0046

Centre of suspension crossmember mounting hole  
[diameter: 18 mm (0.71 in.)]



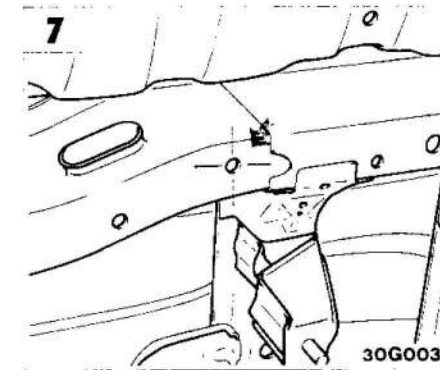
30G0045

Centre of differential crossmember mounting hole  
[diameter: 18 mm (0.71 in.)]



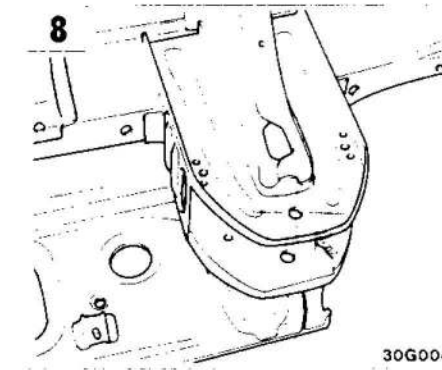
30G0037

Centre of engine support crossmember mounting hole  
[diameter: 13 mm (0.51 in.)]



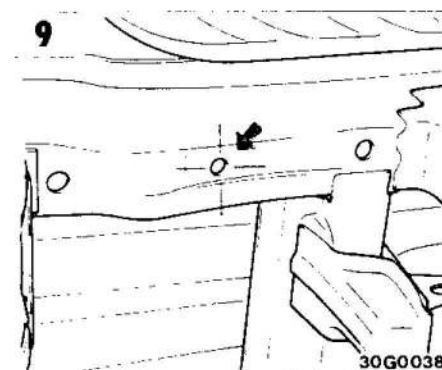
30G0039

Centre of transfer mounting hole  
[diameter: 13 mm (0.51 in.)]



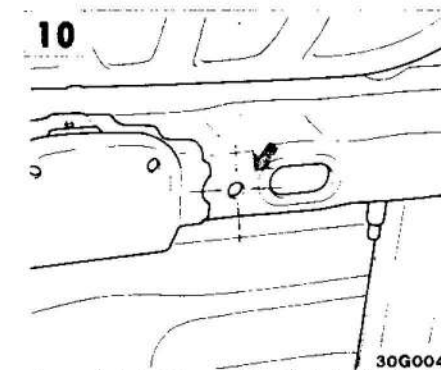
30G0042

Centre of leaf spring pin mounting hole  
[diameter: 14 mm (0.55 in.)]



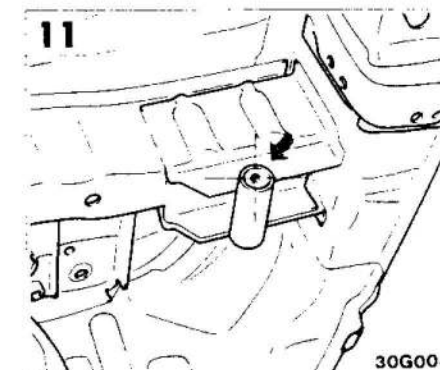
30G0038

Centre of rear sidemember water drain hole  
[diameter: 9 mm (0.35 in.)]



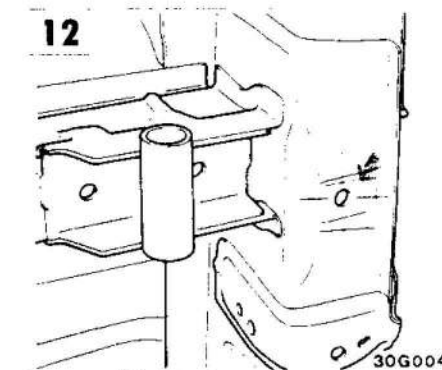
30G0043

Centre of rear sidemember water drain hole  
[diameter: 11 mm (0.43 in.)]



30G0041

Centre of leaf spring shackle mounting hole  
[diameter: 28 mm (1.10 in.)]



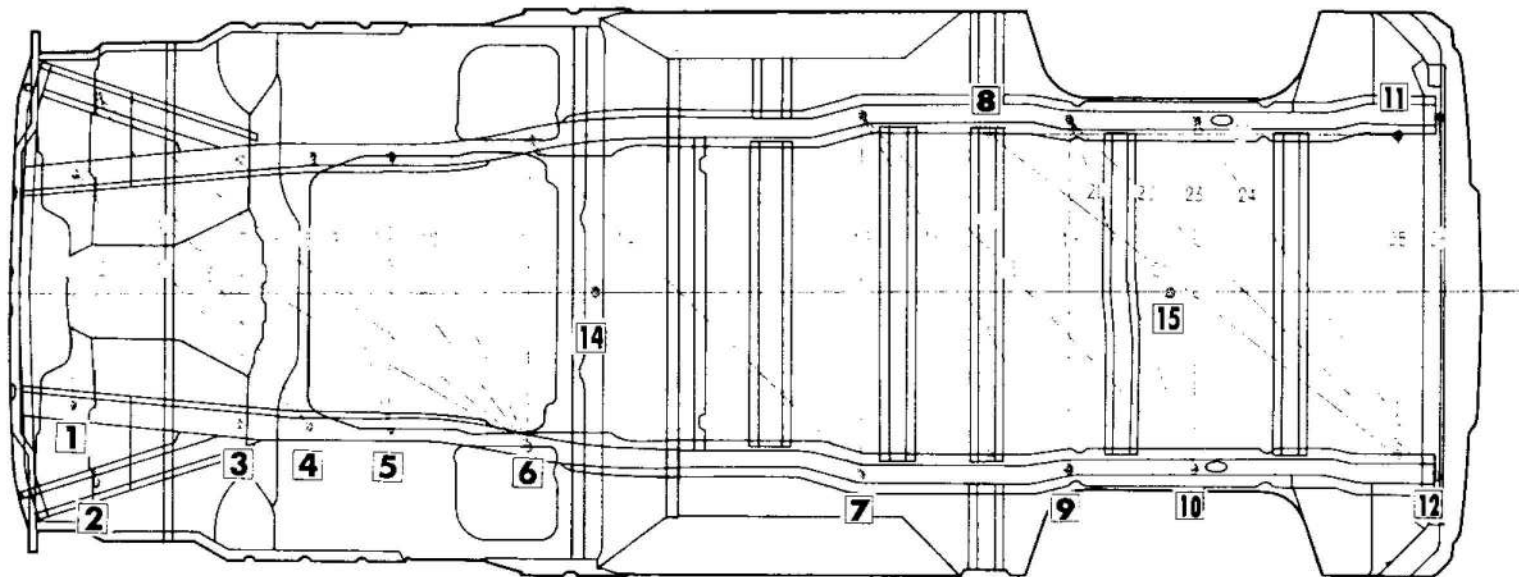
30G0044

Centre of rear bumper bracket mounting hole  
[diameter: 11 mm (0.43 in.)]

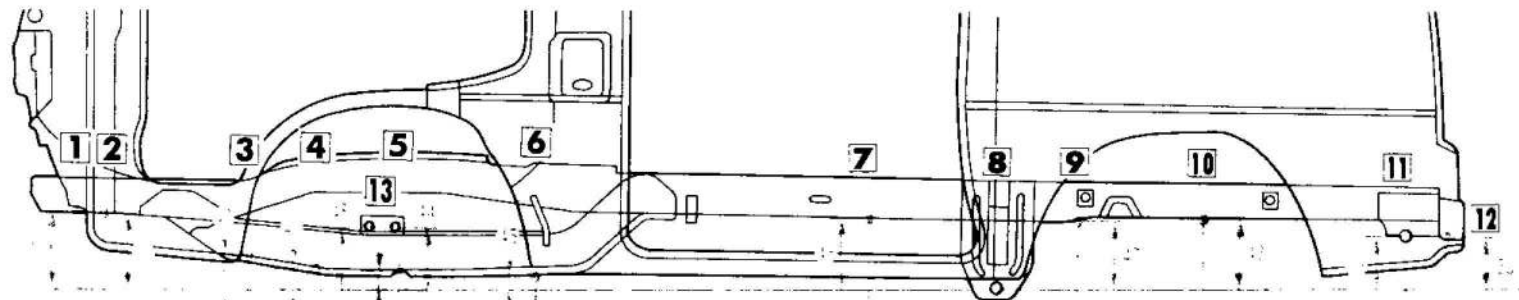
Standard body vehicles (4WD)

mm (in.)

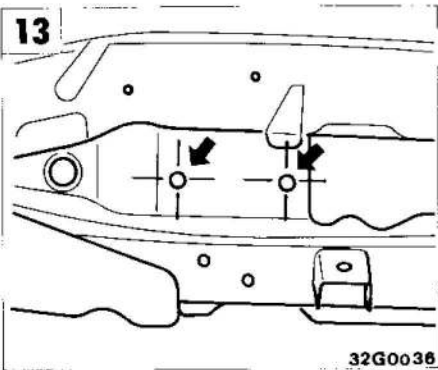
No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Length	640 (25.20)	1,100 (43.31)	945 (37.20)	1,594 (62.76)	1,082 (42.60)	1,652 (65.04)	712 (28.03)	736 (28.98)	812 (31.97)	1,098 (43.23)	750 (29.53)	909 (35.79)	846 (33.31)	1,275 (50.20)	990 (38.98)	1,141 (44.92)	921 (36.26)
No.	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
Length	1,351 (53.19)	970 (38.19)	1,020 (40.16)	1,477 (58.15)	1,420 (55.91)	936 (36.85)	1,168 (45.98)	920 (36.22)	980 (38.58)	1,155 (45.47)	1,410 (55.51)	1,335 (52.56)	920 (36.22)	762 (30.00)	435 (17.13)	885 (34.84)	585 (23.03)
No.	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
Length	948 (37.32)	1,617 (63.66)	1,155 (45.47)	165 (6.50)	165 (6.50)	49 (1.93)	27 (1.06)	15 (0.59)	148 (5.83)	148 (5.83)	28 (1.10)	175 (6.89)	184 (7.24)	195 (7.68)	160 (6.30)	139 (5.47)	



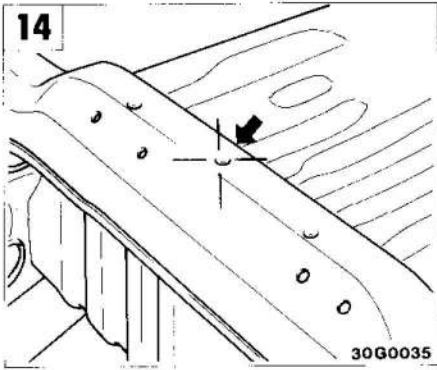
32G0011



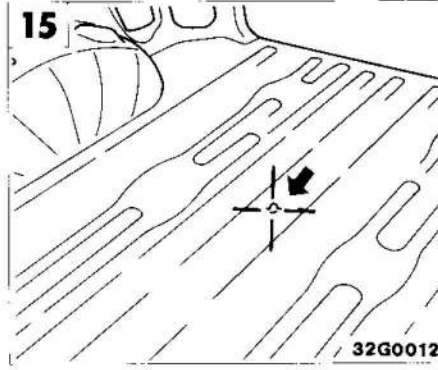
32G0008



Centre of upper arm shaft mounting hole  
[diameter: 16 mm (0.63 in.)]



Front body centre point reference location

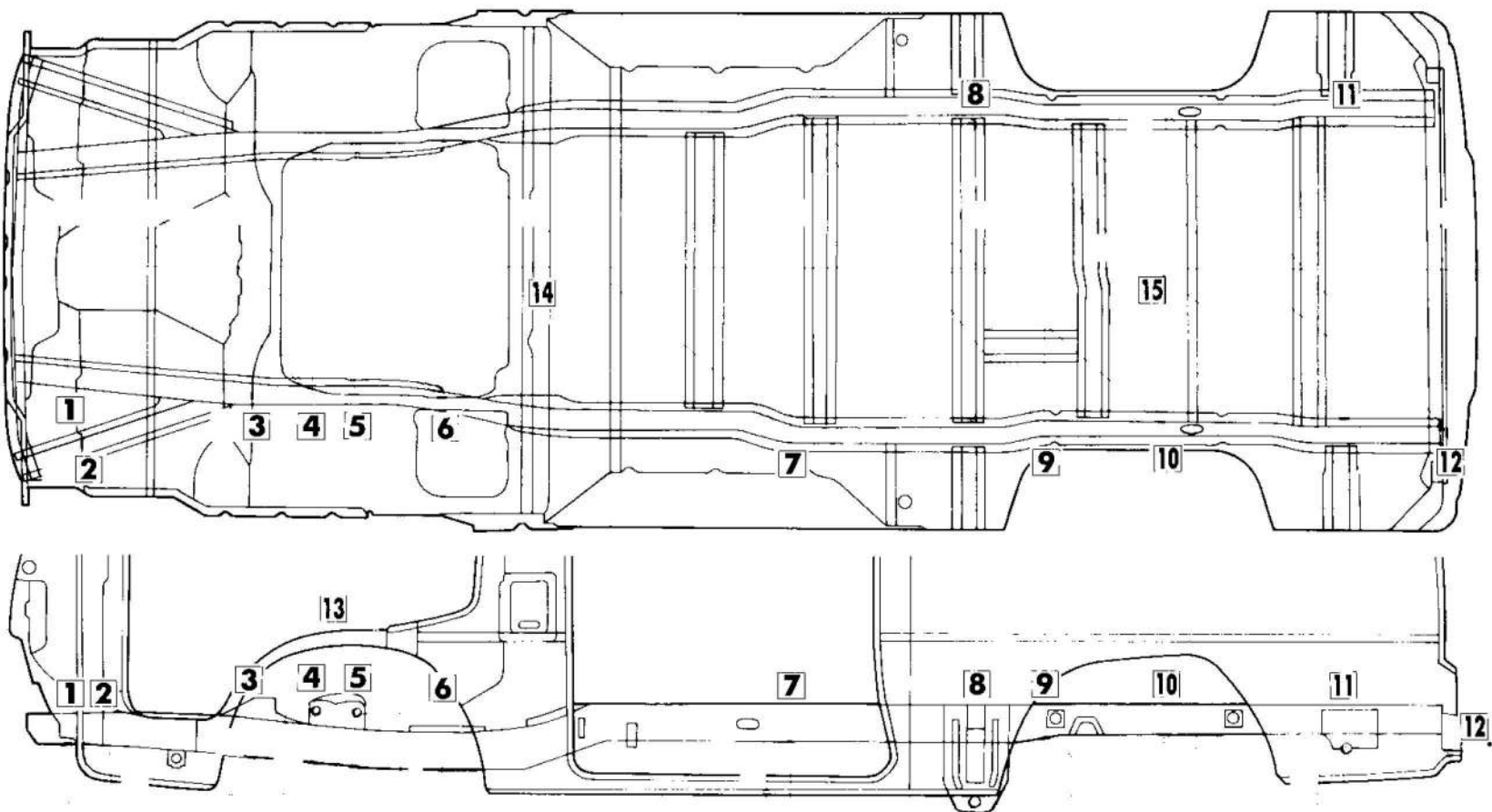


Rear body centre point reference location

Long body vehicles (2WD)

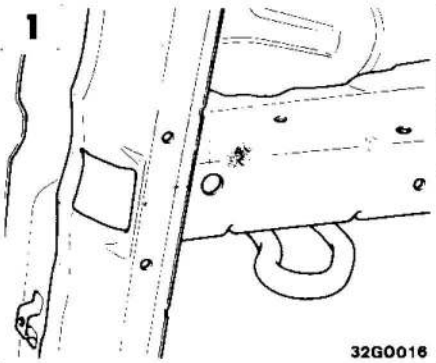
mm (in.)

No.																	
Length	640 (25.20)	1,100 (43.31)	1,083 (42.64)	1,390 (54.72)	1,193 (46.97)	1,461 (57.52)	740 (29.13)	740 (29.13)	771 (30.35)	836 (32.91)	740 (29.13)	767 (30.20)	746 (30.08)	1,388 (54.65)	980 (38.58)	1,261 (49.65)	921 (36.26)
No.																	
Length	1,507 (59.33)	970 (38.19)	1,020 (40.16)	1,477 (58.15)	1,571 (61.85)	936 (36.85)	1,293 (50.91)	920 (36.22)	980 (38.58)	1,155 (45.47)	1,200 (47.24)	1,125 (44.29)	550 (21.65)	365 (14.37)	150 (5.91)	1,080 (42.52)	800 (31.50)
No.																	
Length	1,163 (45.79)	2,032 (80.00)	1,155 (45.47)	165 (6.50)	165 (6.50)	120 (4.72)	265 (10.43)	100 (3.94)	87 (3.43)	258 (10.16)	87 (3.43)	175 (6.89)	184 (7.24)	195 (7.68)	160 (6.30)	139 (5.47)	



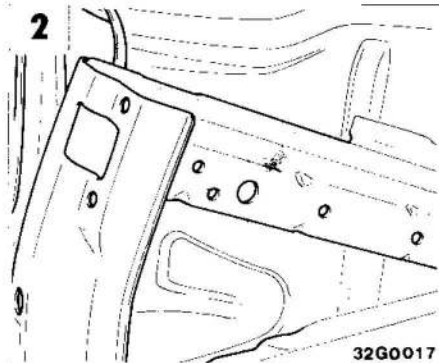
32G0010

32G0005



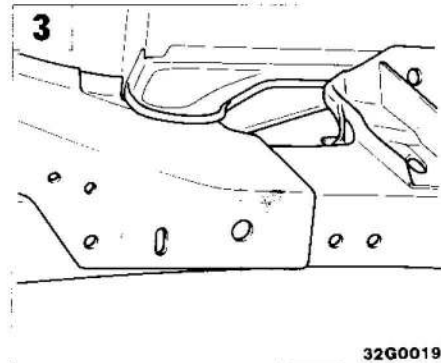
32G0016

Centre of front sidemember (A) locating hole  
[diameter: 15 mm (0.59 in.)]



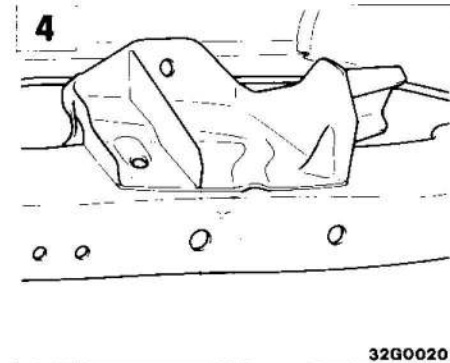
32G0017

Centre of front sidemember (B) locating hole  
[diameter: 15 mm (0.59 in.)]



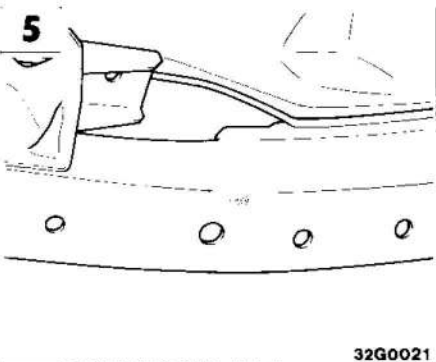
32G0019

Centre of front sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



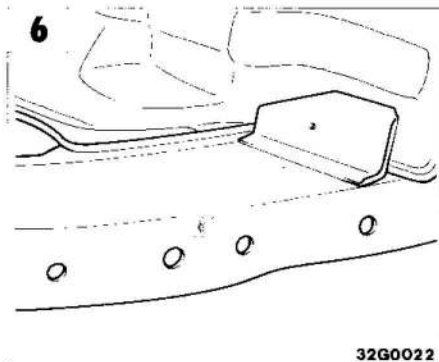
32G0020

Centre of suspension crossmember mounting hole  
[diameter: 17 mm (0.67 in.)]



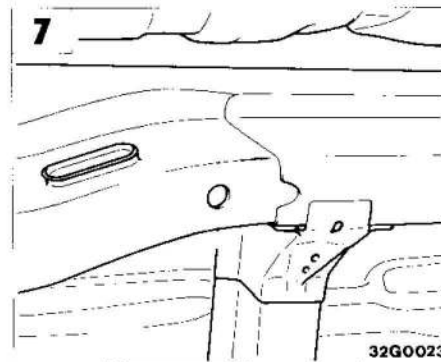
32G0021

Centre of suspension crossmember mounting hole  
[diameter: 17 mm (0.67 in.)]



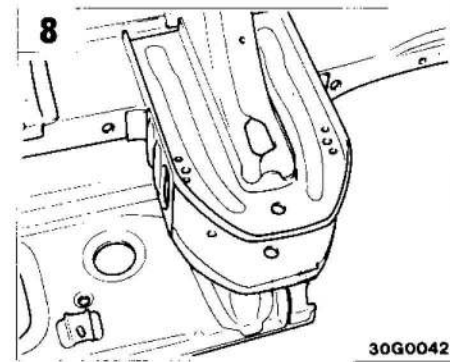
32G0022

Centre of engine support crossmember mounting hole  
[diameter: 17 mm (0.67 in.)]



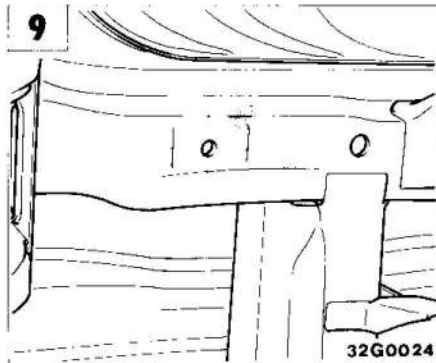
32G0023

Centre of centre sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



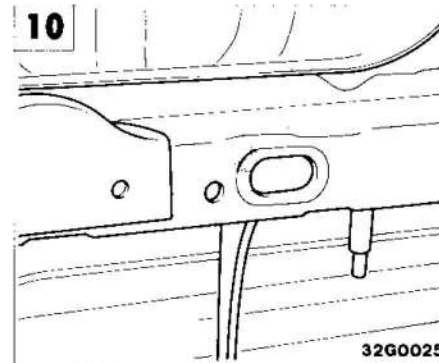
30G0042

Centre of leaf spring pin mounting hole  
[diameter: 14 mm (0.55 in.)]



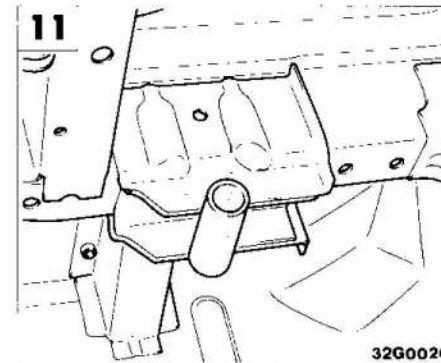
32G0024

Centre of rear sidemember water drain hole  
[diameter: 9 mm (0.35 in.)]



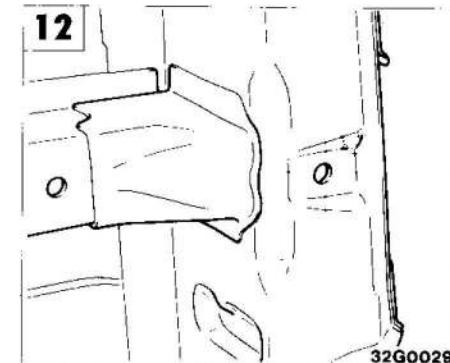
32G0025

Centre of rear sidemember water drain hole  
[diameter: 11 mm (0.43 in.)]



32G0026

Centre of leaf spring shackle mounting hole  
[diameter: 28 mm (1.10 in.)]

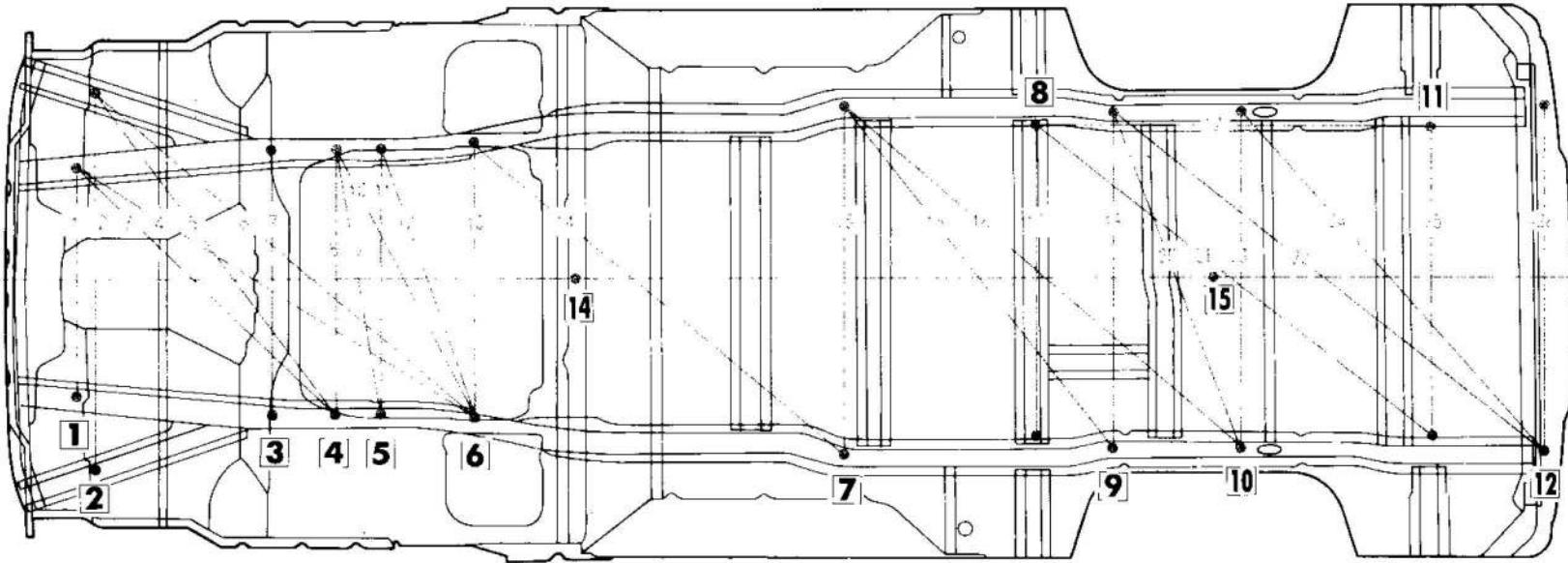


32G0029

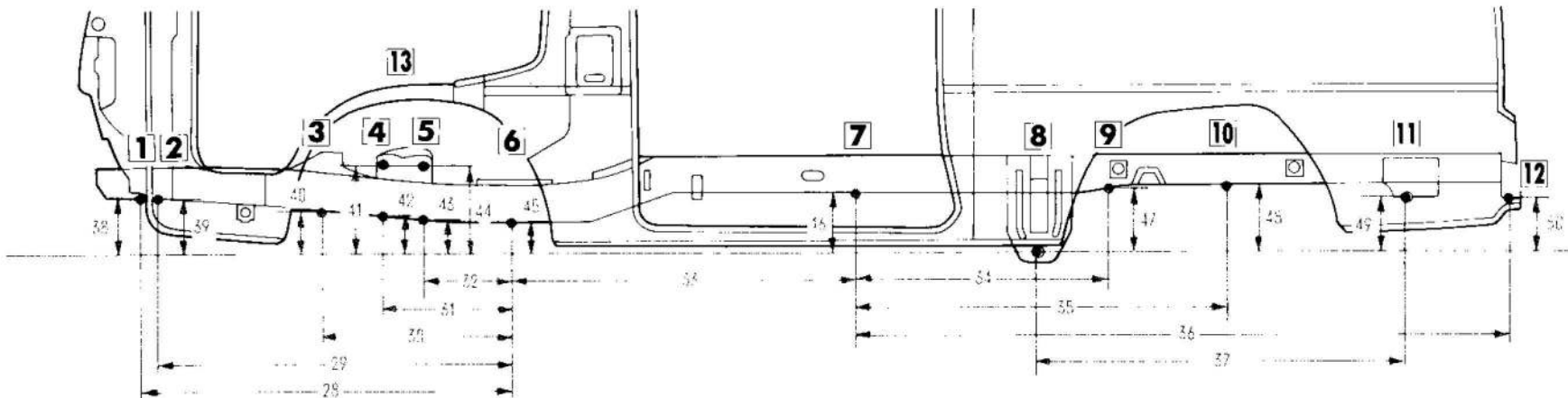
Centre of rear bumper bracket mounting hole  
[diameter: 11 mm (0.43 in.)]

mm (in.)

No.	1	2	3 ★	4 ★	5 ★	6 ★	7	8	9 ★	10 ★	11	12 ★	13	14 ★	15	16 ★	17
Length	640 (25.20)	1,100 (43.31)	1,083 (42.64)	1,390 (54.72)	1,193 (46.97)	1,461 (57.52)	740 (29.13)	740 (29.13)	771 (30.35)	836 (32.91)	740 (29.13)	767 (30.20)	764 (30.08)	1,388 (54.65)	980 (38.58)	1,261 (49.65)	921 (36.26)
No.	18 ★	19	20 ★	21 ★	22 ★	23	24 ★	25	26	27 ★	28	29	30	31	32	33	34
Length	1,507 (59.33)	970 (38.19)	1,020 (40.16)	1,477 (58.15)	1,571 (61.85)	936 (36.85)	1,293 (50.91)	920 (36.22)	980 (38.58)	1,155 (45.47)	1,200 (47.24)	1,125 (44.29)	550 (21.65)	365 (14.37)	150 (5.91)	1,080 (42.52)	800 (31.50)
No.	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
Length	1,163 (45.79)	2,032 (80.00)	1,155 (45.47)	165 (6.50)	165 (6.50)	120 (4.72)	265 (10.43)	100 (3.94)	87 (3.43)	258 (10.16)	87 (3.43)	175 (6.89)	184 (7.24)	195 (7.68)	160 (6.30)	139 (5.47)	

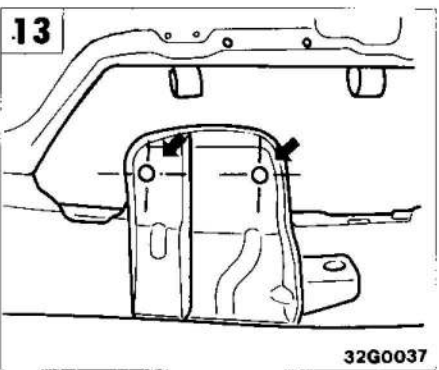


32G0010

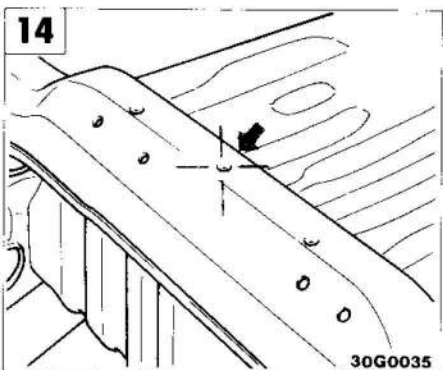


32G0005

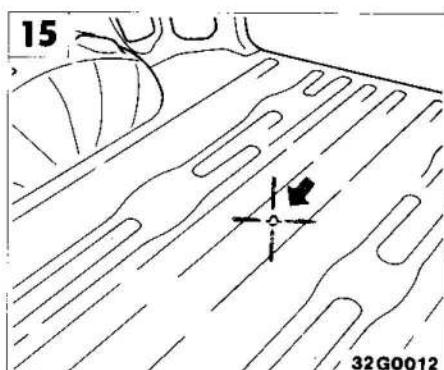




Centre of upper arm shaft mounting hole  
[diameter: 16 mm (0.63 in.)]



Front body centre point reference location

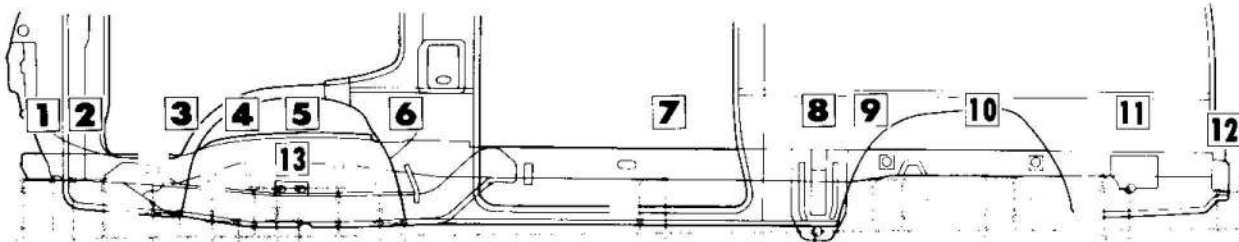
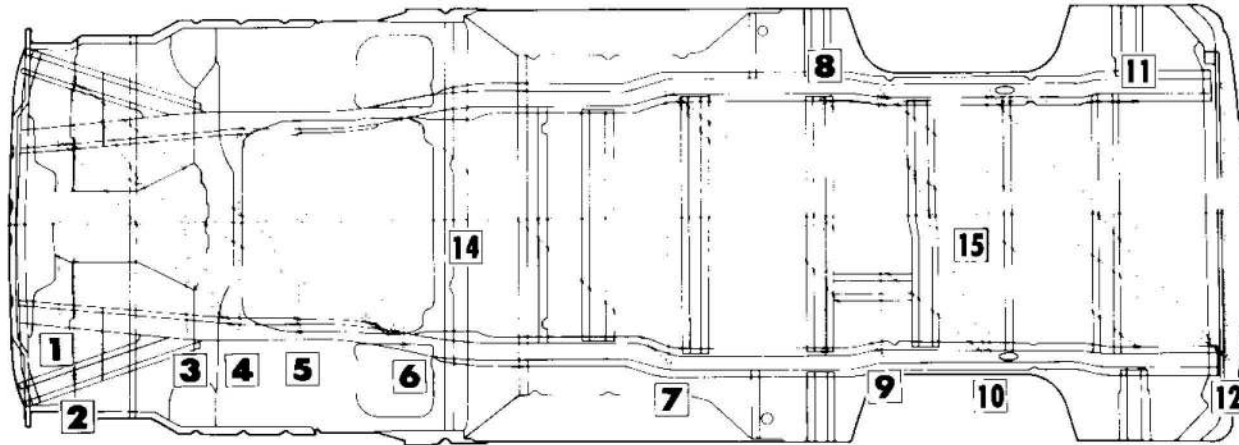


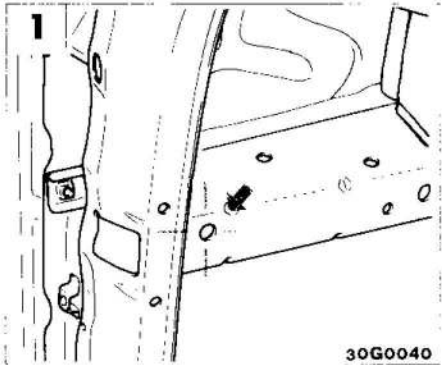
Rear body centre point reference location

Long body vehicles (4WD)

mm (in.)

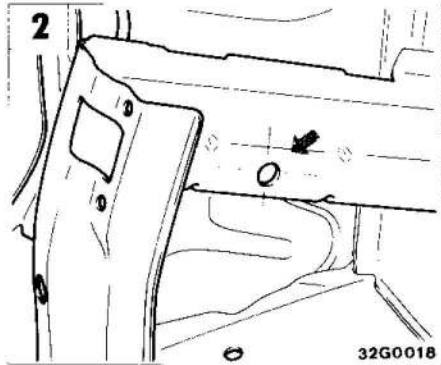
No.	640	1,100	945	1,594	1,082	1,652	712	736	812	1,098	750	909	846	1,275	990	1,255	921
Length	(25.20)	(43.31)	(37.20)	(62.76)	(42.60)	(65.04)	(28.03)	(28.98)	(31.97)	(43.23)	(29.53)	(35.79)	(33.31)	(50.20)	(38.98)	(49.41)	(36.26)
No.	1,498	970	1,020	1,477	1,571	936	1,293	920	980	1,155	1,410	1,335	920	762	435	885	785
Length	(58.98)	(38.19)	(40.16)	(58.15)	(61.85)	(36.85)	(50.91)	(36.22)	(38.58)	(45.47)	(55.51)	(52.56)	(36.22)	(30.00)	(17.13)	(34.84)	(30.91)
No.	1,148	2,017	1,155	165	165	49	27	15	148	148	28	175	184	195	160	139	
Length	(45.20)	(79.41)	(45.47)	(6.50)	(6.50)	(1.93)	(1.06)	(0.59)	(5.83)	(5.83)	(1.10)	(6.89)	(7.24)	(7.68)	(6.30)	(5.47)	





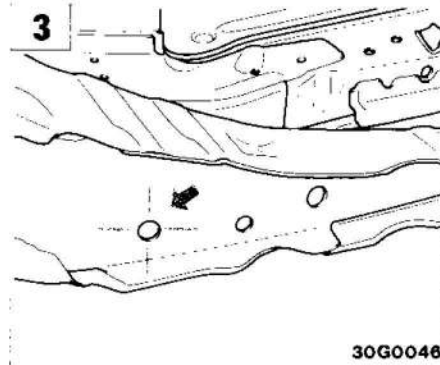
30G0040

Centre of front sidemember (A) locating hole  
[diameter: 15 mm (0.59 in.)]



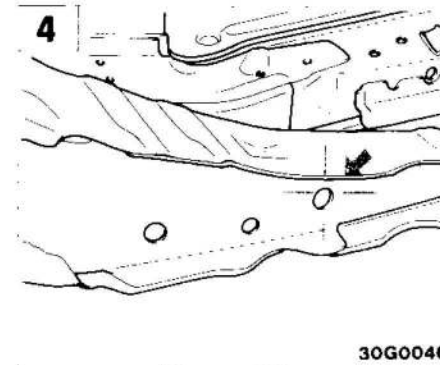
32G0018

Centre of front sidemember (B) locating hole  
[diameter: 15 mm (0.59 in.)]



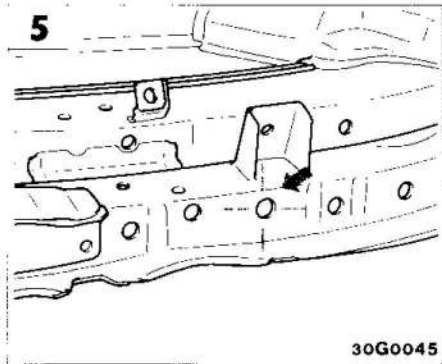
30G0046

Centre of suspension crossmember mounting hole  
[diameter: 18 mm (0.71 in.)]



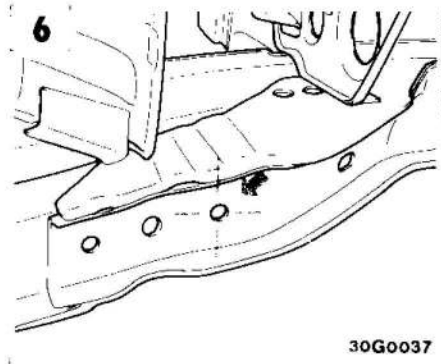
30G0048

Centre of suspension crossmember mounting hole  
[diameter: 18 mm (0.71 in.)]



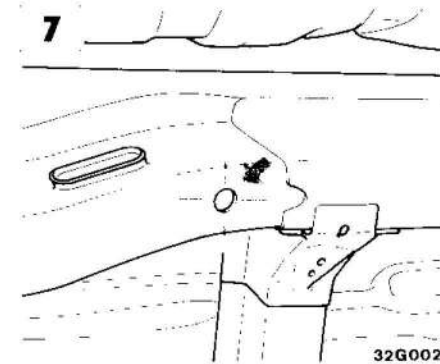
30G0045

Centre of differential crossmember mounting hole  
[diameter: 18 mm (0.71 in.)]



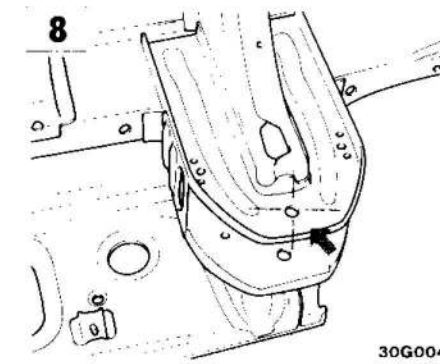
30G0037

Centre of engine support crossmember mounting hole  
[diameter: 13 mm (0.51 in.)]



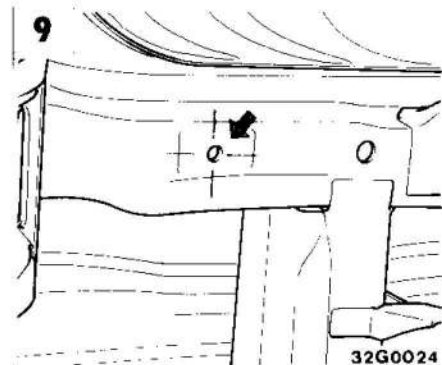
32G0023

Centre of centre sidemember water drain hole [diameter: 15 mm (0.59 in.)]



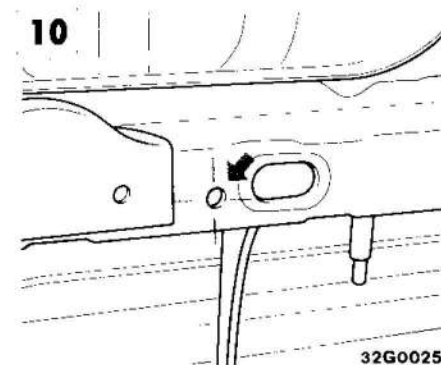
30G0042

Centre of leaf spring pin mounting hole  
[diameter: 14 mm (0.55 in.)]



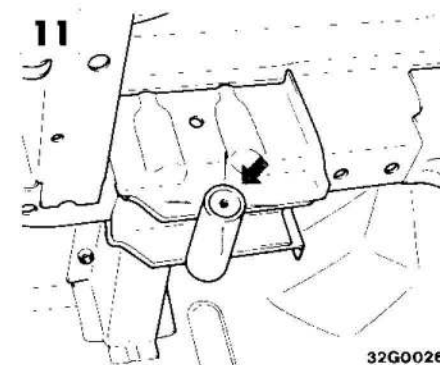
32G0024

Centre of rear sidemember water drain hole [diameter: 9 mm (0.35 in.)]



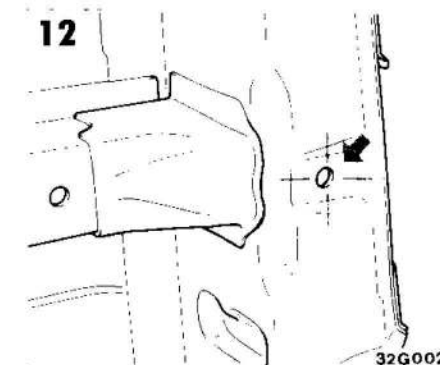
32G0025

Centre of rear sidemember water drain hole [diameter: 11 mm (0.43 in.)]



32G0026

Centre of leaf spring shackle mounting hole [diameter: 28 mm (1.10 in.)]



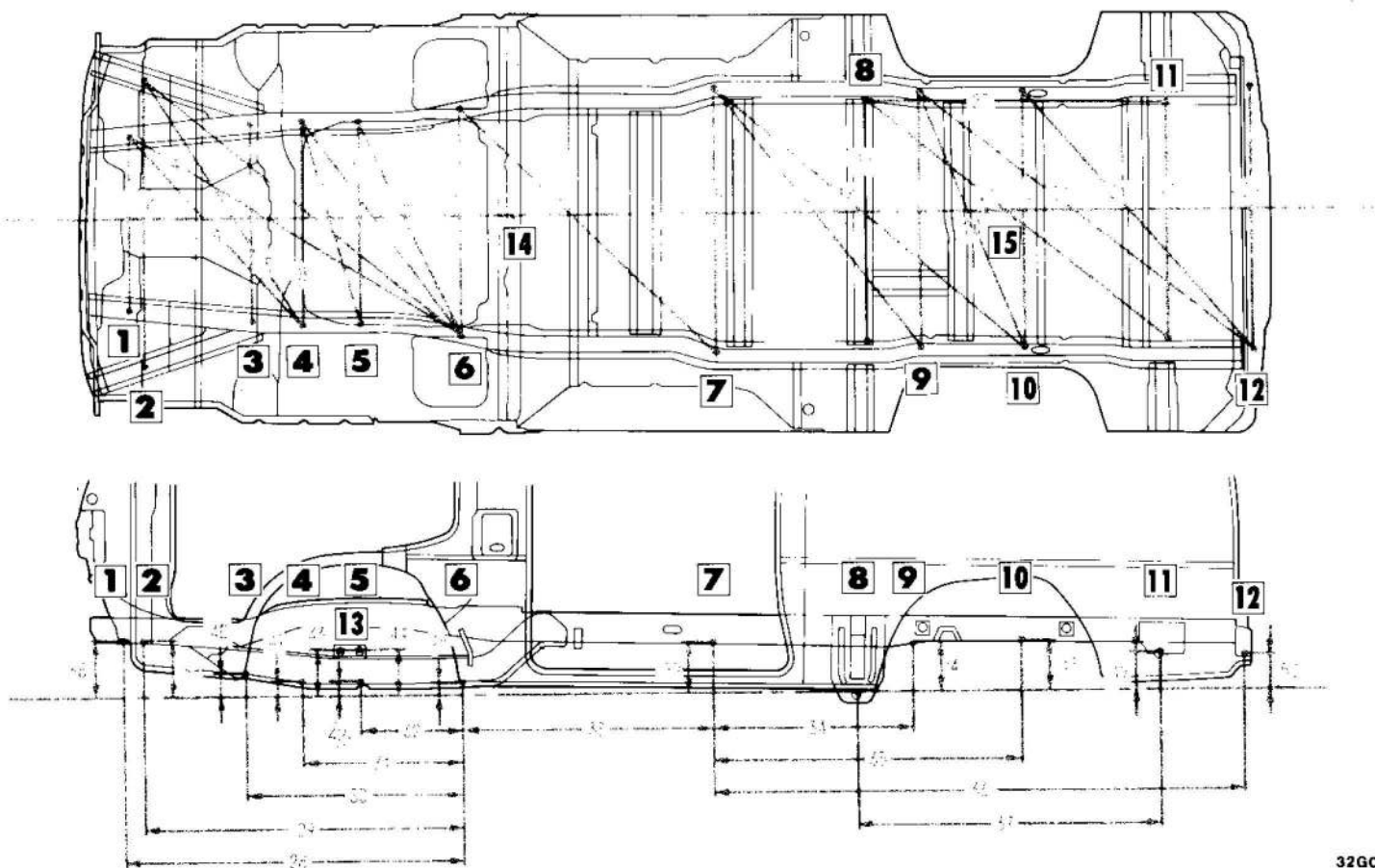
32G0029

Centre of rear bumper bracket mounting hole [diameter: 11 mm (0.43 in.)]

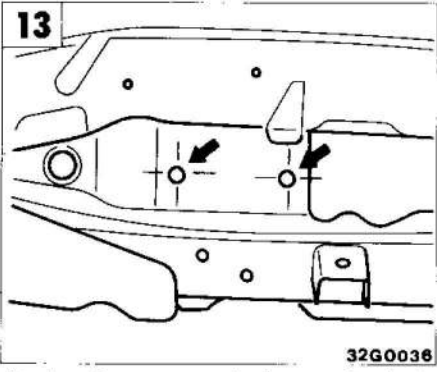
Long body vehicles (4WD)

mm (in.)

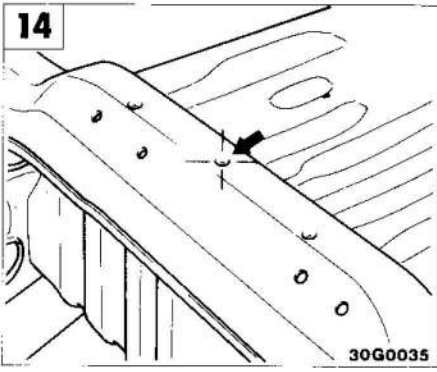
No.	1	2	3★	4★	5★	6★	7	8	9★	10★	11	12★	13	14★	15	16★	17
Length	640 (25.20)	1,100 (43.31)	945 (37.20)	1,594 (62.76)	1,082 (42.60)	1,652 (65.04)	712 (28.03)	736 (28.98)	812 (31.97)	1,098 (43.23)	750 (29.53)	909 (35.79)	846 (33.31)	1,275 (50.20)	990 (38.98)	1,255 (49.41)	921 (36.26)
No.	18★	19	20★	21★	22★	23	24★	25	26	27★	28	29	30	31	32	33	34
Length	1,498 (58.98)	970 (38.19)	1,020 (40.16)	1,477 (58.15)	1,571 (61.85)	936 (36.85)	1,293 (50.91)	920 (36.22)	980 (38.58)	1,155 (45.47)	1,410 (55.51)	1,335 (52.56)	920 (36.22)	762 (30.00)	435 (17.13)	885 (34.84)	785 (30.91)
No.	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
Length	1,148 (45.20)	2,017 (79.41)	1,155 (45.47)	165 (6.50)	165 (6.50)	49 (1.93)	27 (1.06)	15 (0.59)	148 (5.83)	148 (5.83)	28 (1.10)	175 (6.89)	184 (7.24)	195 (7.68)	160 (6.30)	139 (5.47)	



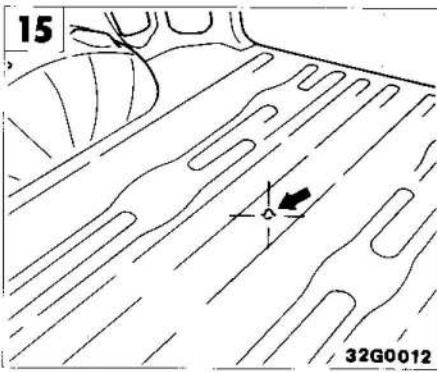
32G0059



Centre of upper arm shaft mounting hole  
[diameter: 16 mm (0.63 in.)]



Front body centre point reference location

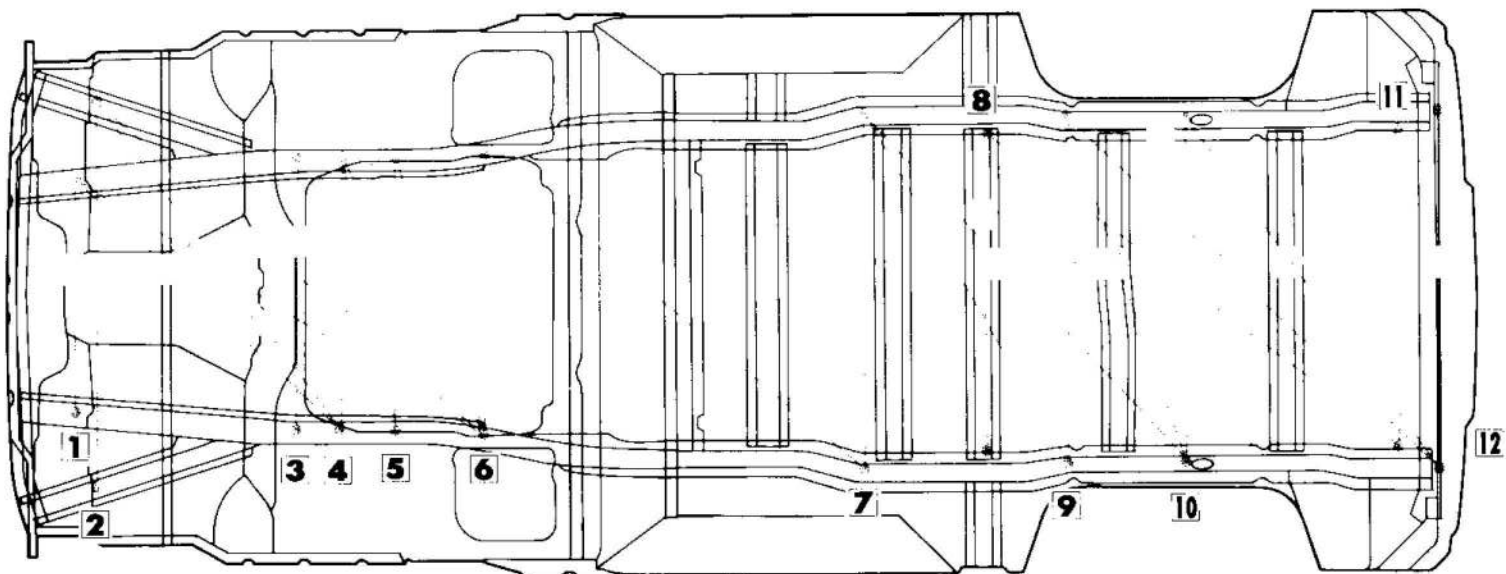


Rear body centre point reference location

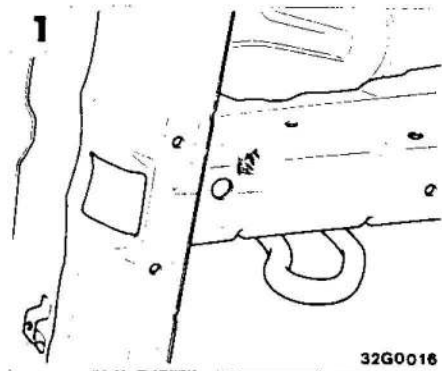
TYPE B (ACTUAL-MEASUREMENT DIMENSIONS)

UNDERBODY  
Standard body vehicles (2WD)

		mm (in.)																
No.																		
Length		640 (25.20)	1,100 (43.31)	1,085 (42.72)	1,392 (54.80)	1,195 (47.05)	1,463 (57.60)	740 (29.13)	740 (29.13)	771 (30.35)	836 (32.91)	740 (29.13)	767 (30.20)	764 (30.08)	1,391 (54.76)	980 (38.58)	1,145 (45.08)	921 (36.26)
No.																		
Length		1,359 (53.50)	970 (38.19)	1,020 (40.16)	1,486 (58.50)	1,420 (55.91)	936 (36.85)	1,170 (46.06)	920 (36.22)	980 (38.58)	1,166 (45.91)							

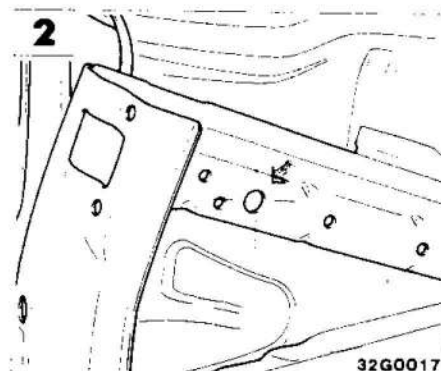


32G0011



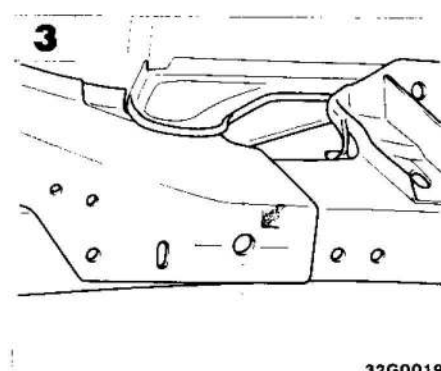
32G0016

Centre of front sidemember (A) locating hole  
[diameter: 15 mm (0.59 in.)]



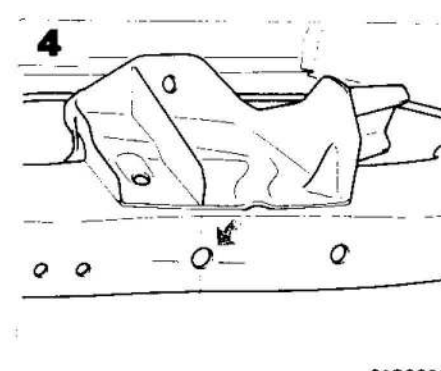
32G0017

Centre of front sidemember (B) locating hole  
[diameter: 15 mm (0.59 in.)]



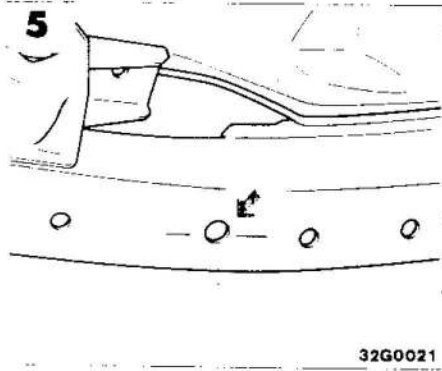
32G0019

Centre of front sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



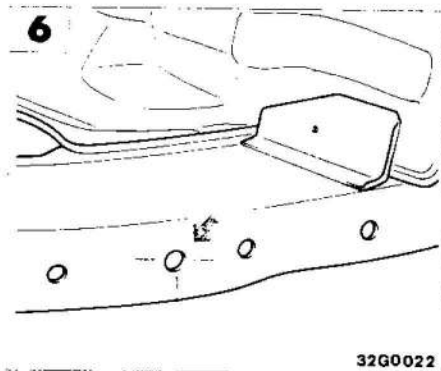
32G0020

Centre of suspension crossmember mounting hole  
[diameter: 17 mm (0.67 in.)]



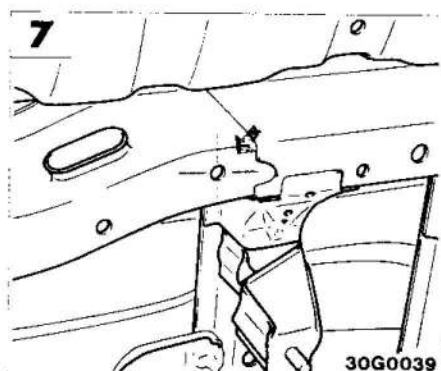
32G0021

Centre of suspension crossmember mounting hole  
[diameter: 17 mm (0.67 in.)]



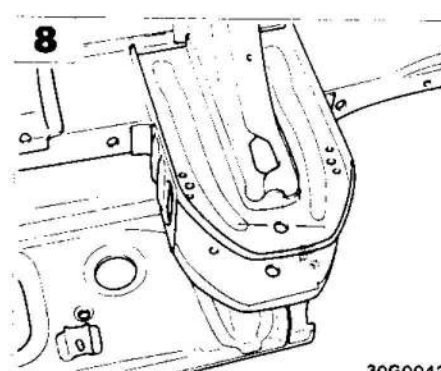
32G0022

Centre of engine support crossmember mounting hole  
[diameter: 17 mm (0.67 in.)]



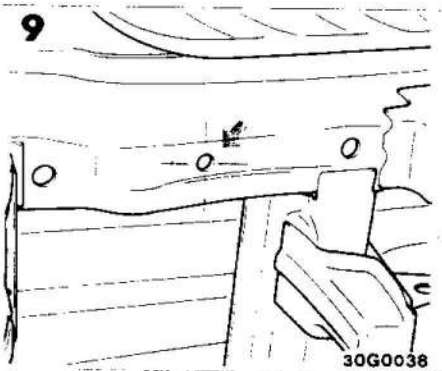
30G0039

Centre of centre sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



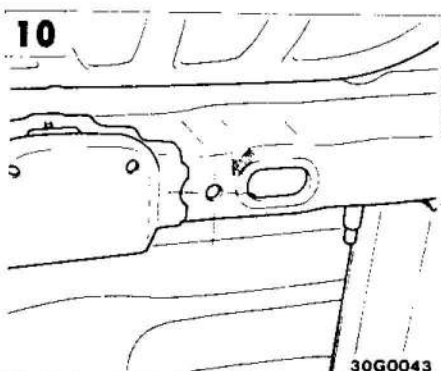
30G0042

Centre of leaf spring pin mounting hole  
[diameter: 14 mm (0.55 in.)]



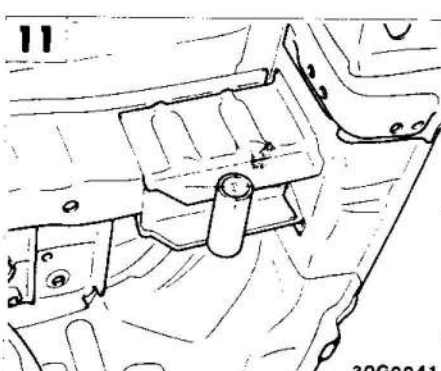
30G0038

Centre of rear sidemember water drain hole  
[diameter: 9 mm (0.35 in.)]



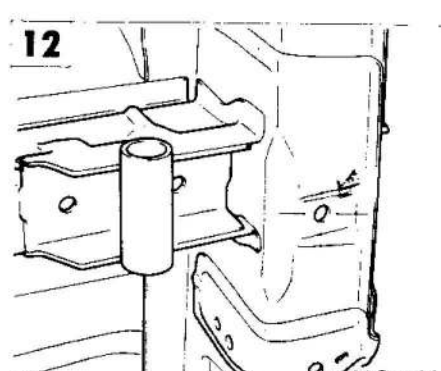
30G0043

Centre of rear sidemember water drain hole  
[diameter: 11 mm (0.43 in.)]



30G0041

Centre of leaf spring shackle mounting hole  
[diameter: 28 mm (1.10 in.)]



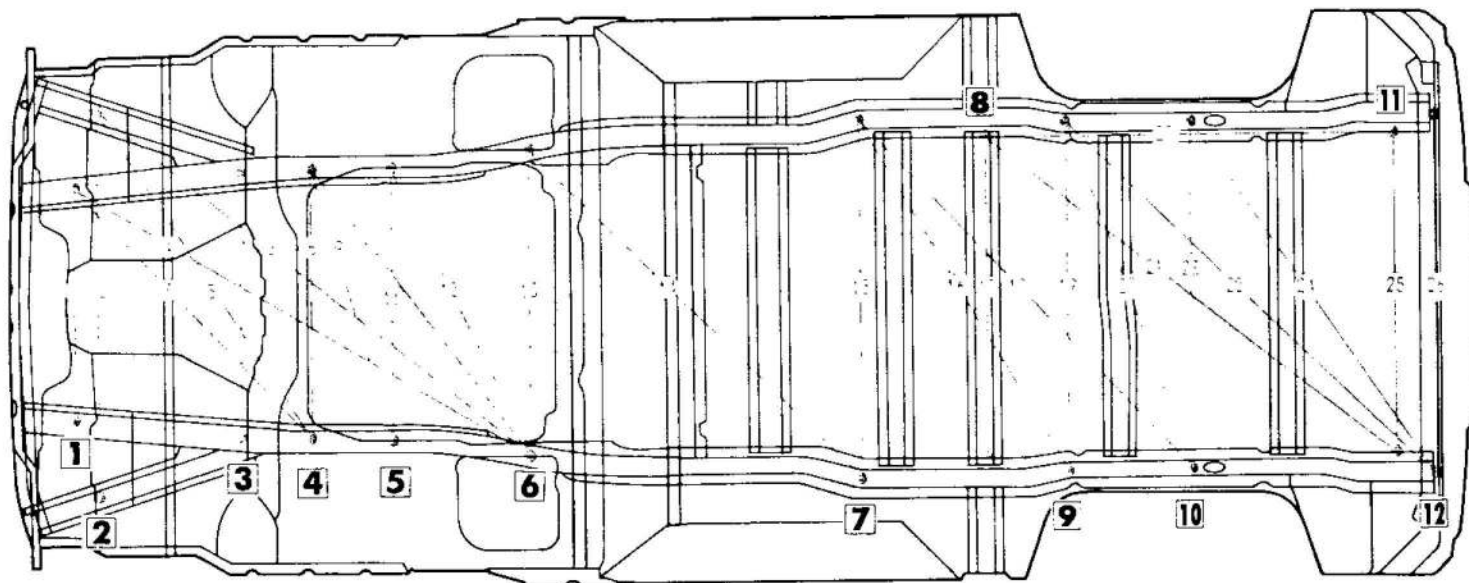
30G0044

Centre of rear bumper bracket mounting hole  
[diameter: 11 mm (0.43 in.)]

Standard body vehicles (4WD)

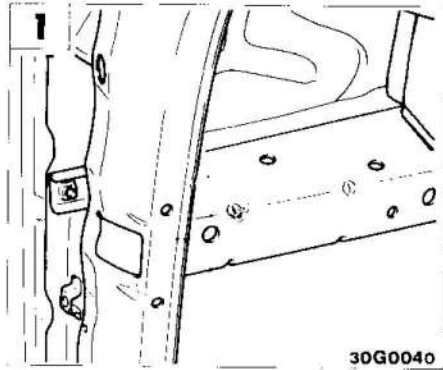
mm (in.)

No.	1	2	3 ★	4 ★	5 ★	6 ★	7	8	9 ★	10 ★	11	12 ★	13	14 ★	15 ★	16	
Length	640 (25.20)	1,100 (43.31)	955 (37.60)	1,600 (62.99)	1,091 (42.95)	1,658 (65.28)	712 (28.03)	736 (28.98)	812 (31.97)	1,098 (43.23)	750 (29.53)	909 (35.79)	846 (33.31)	1,284 (50.55)	990 (38.98)	1,141 (44.92)	921 (36.26)
No.	17 ★	18	19 ★	20 ★	21 ★	22	23 ★	24	25	26 ★							
Length	1,351 (53.19)	970 (38.19)	1,020 (40.16)	1,486 (58.50)	1,420 (55.91)	936 (36.85)	1,170 (46.06)	920 (36.22)	980 (38.58)	1,166 (45.91)							



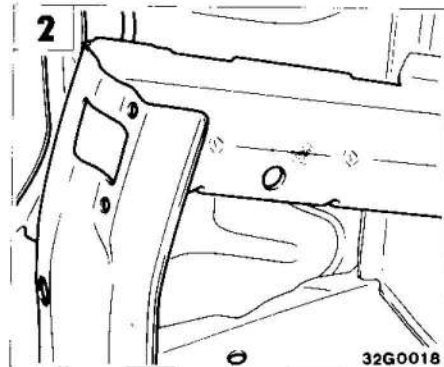
32G0011





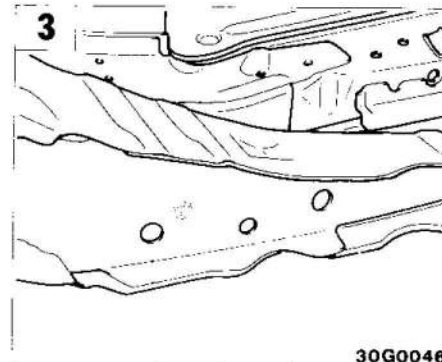
30G0040

Centre of front sidemember (A) locating hole  
[diameter: 15 mm (0.59 in.)]



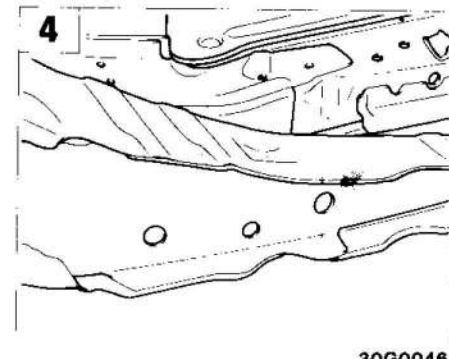
32G0018

Centre of front sidemember (B) locating hole  
[diameter: 15 mm (0.59 in.)]



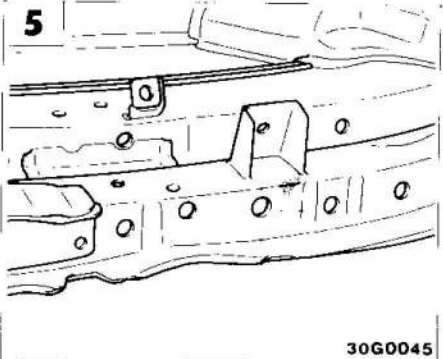
30G0046

Centre of suspension crossmember mounting hole  
[diameter: 18 mm (0.71 in.)]



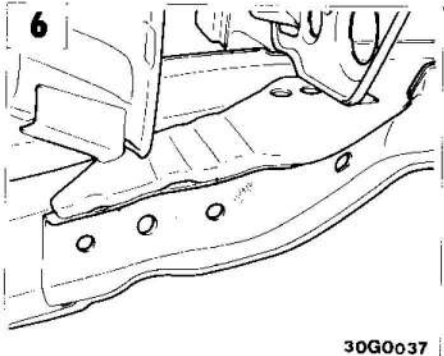
30G0046

Centre of suspension crossmember mounting hole  
[diameter: 18 mm (0.71 in.)]



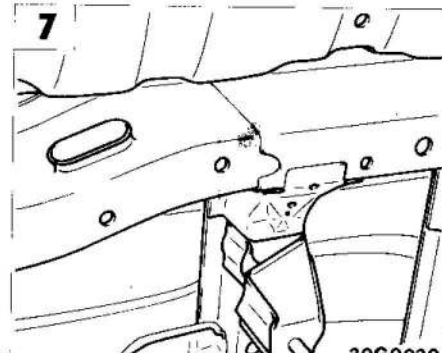
30G0045

Centre of differential crossmember mounting hole  
[diameter: 18 mm (0.71 in.)]



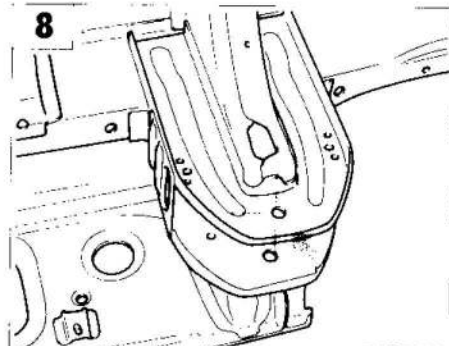
30G0037

Centre of engine support crossmember mounting hole  
[diameter: 13 mm (0.51 in.)]



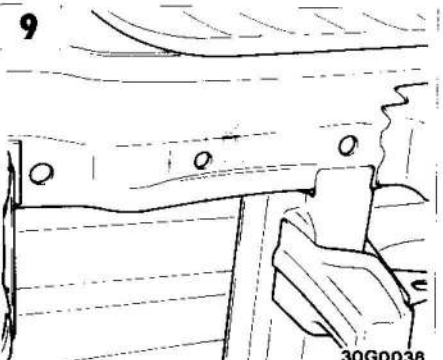
30G0039

Centre of transfer mounting hole  
[diameter: 13 mm (0.51 in.)]



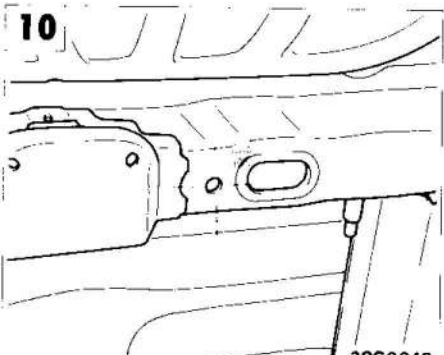
30G0042

Centre of leaf spring pin mounting hole  
[diameter: 14 mm (0.55 in.)]



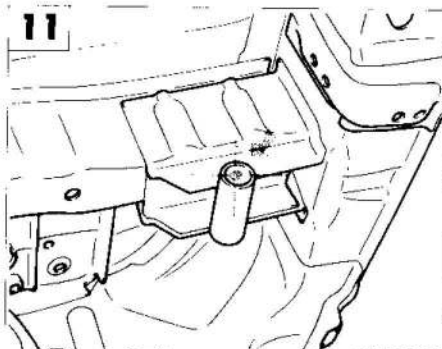
30G0038

Centre of rear sidemember water drain hole  
[diameter: 9 mm (0.35 in.)]



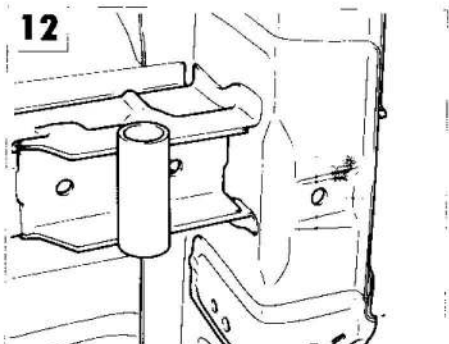
30G0043

Centre of rear sidemember water drain hole  
[diameter: 11 mm (0.43 in.)]



30G0041

Centre of leaf spring shackle mounting hole  
[diameter: 28 mm (1.10 in.)]



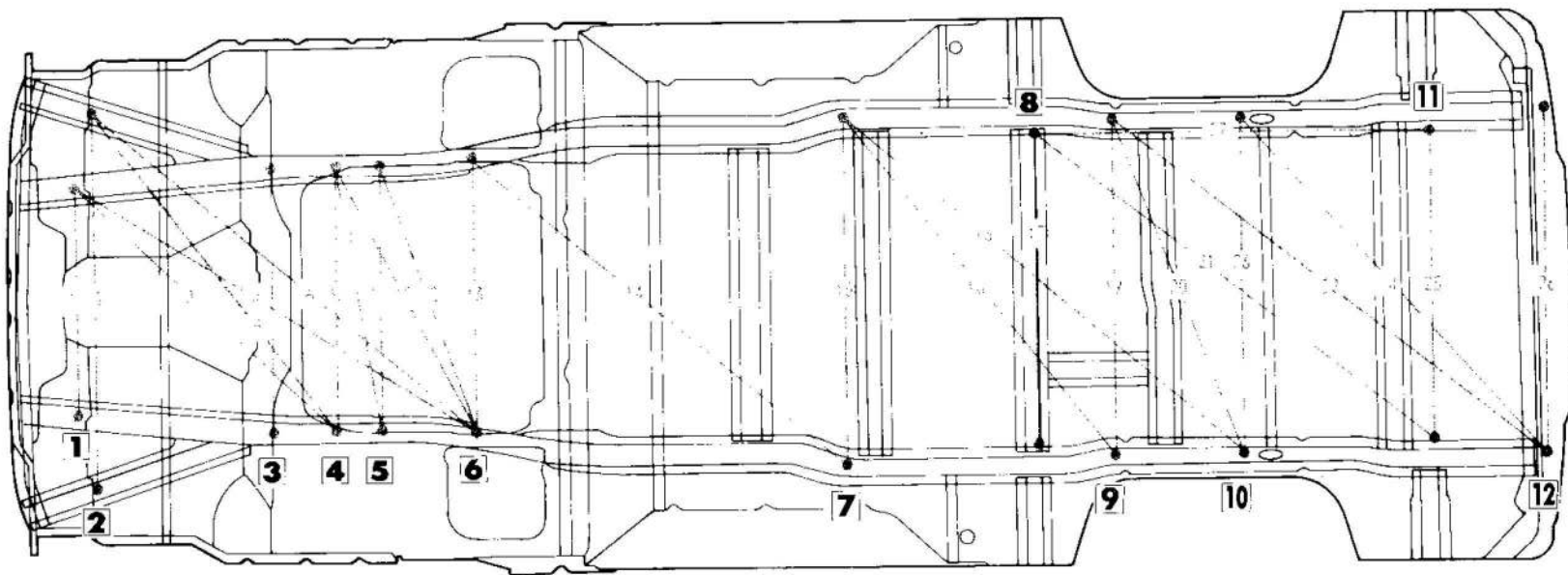
30G0044

Centre of rear bumper bracket mounting hole  
[diameter: 11 mm (0.43 in.)]

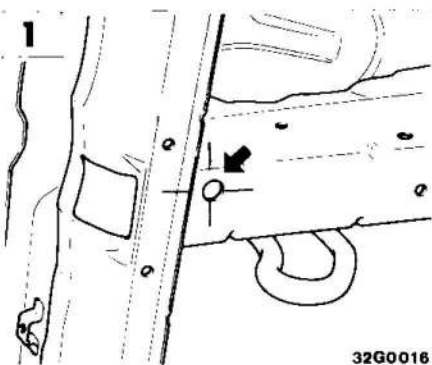
Long body vehicles (2WD)

mm (in.)

No.	1	2	3★	4★	5★	6★	7	8	9★	10★	11	12★	13	14★	15	15★	17
Length	640 (25.20)	1,100 (43.31)	1,085 (42.72)	1,392 (54.80)	1,195 (47.05)	1,463 (57.60)	740 (29.13)	740 (29.13)	771 (30.35)	836 (32.91)	740 (29.13)	767 (30.20)	764 (30.08)	1,391 (54.76)	980 (38.58)	1,261 (49.65)	921 (36.26)
No.	18★	19	20★	21★	22★	23	24★	25	26	27★							
Length	1,507 (59.33)	970 (38.19)	1,020 (40.16)	1,486 (58.50)	1,572 (61.89)	936 (36.85)	1,295 (50.98)	920 (36.22)	980 (38.58)	1,166 (45.91)							

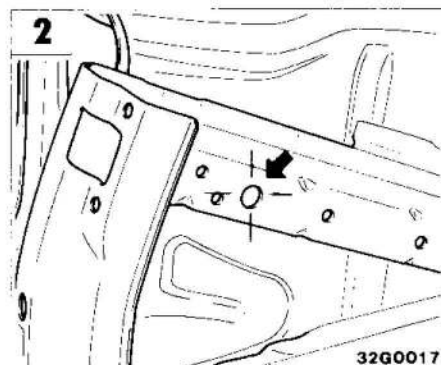


32G0010



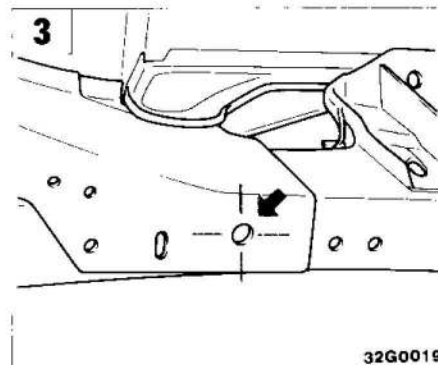
32G0016

Centre of front sidemember (A) locating hole  
[diameter: 15 mm (0.59 in.)]



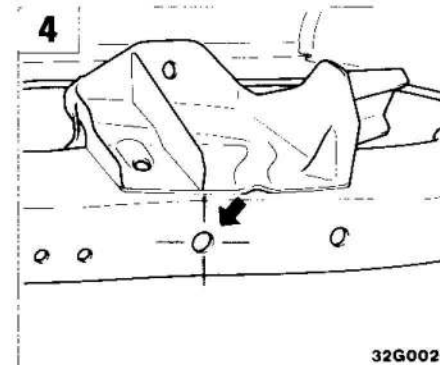
32G0017

Centre of front sidemember (B) locating hole  
[diameter: 15 mm (0.59 in.)]



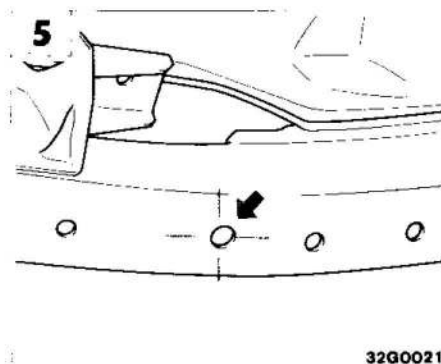
32G0019

Centre of front sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



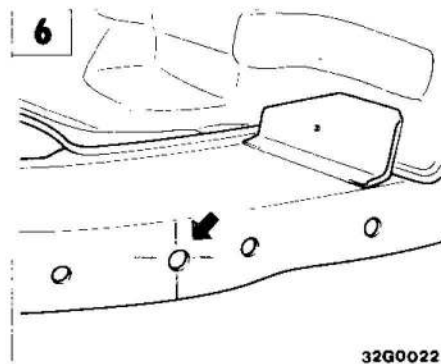
32G0020

Centre of suspension crossmember mounting hole  
[diameter: 17 mm (0.67 in.)]



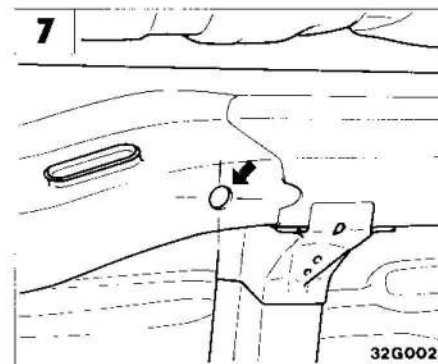
32G0021

Centre of suspension crossmember mounting hole  
[diameter: 17 mm (0.67 in.)]



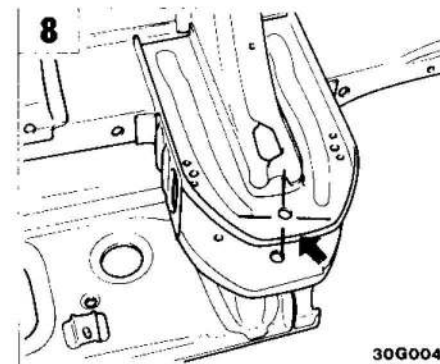
32G0022

Centre of engine support crossmember mounting hole  
[diameter: 17 mm (0.67 in.)]



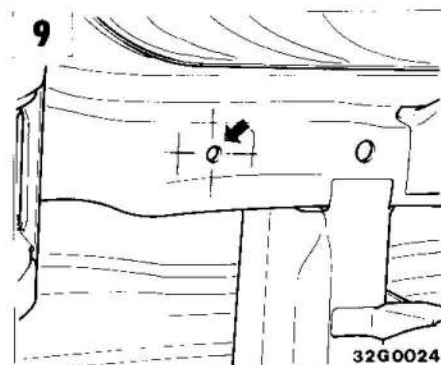
32G0023

Centre of centre sidemember water drain hole  
[diameter: 15 mm (0.59 in.)]



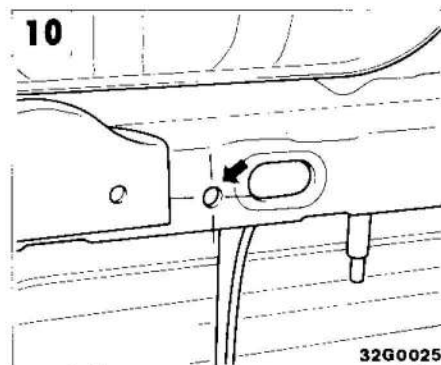
30G0042

Centre of leaf spring pin mounting hole  
[diameter: 14 mm (0.55 in.)]



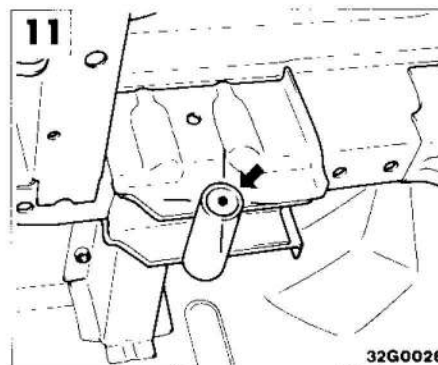
32G0024

Centre of rear sidemember water drain hole  
[diameter: 9 mm (0.35 in.)]



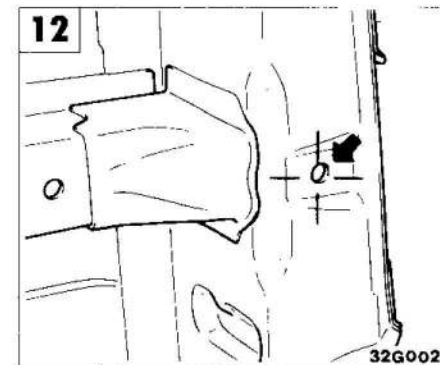
32G0025

Centre of rear sidemember water drain hole  
[diameter: 11 mm (0.43 in.)]



32G0026

Centre of leaf spring shackle mounting hole  
[diameter: 28 mm (1.10 in.)]



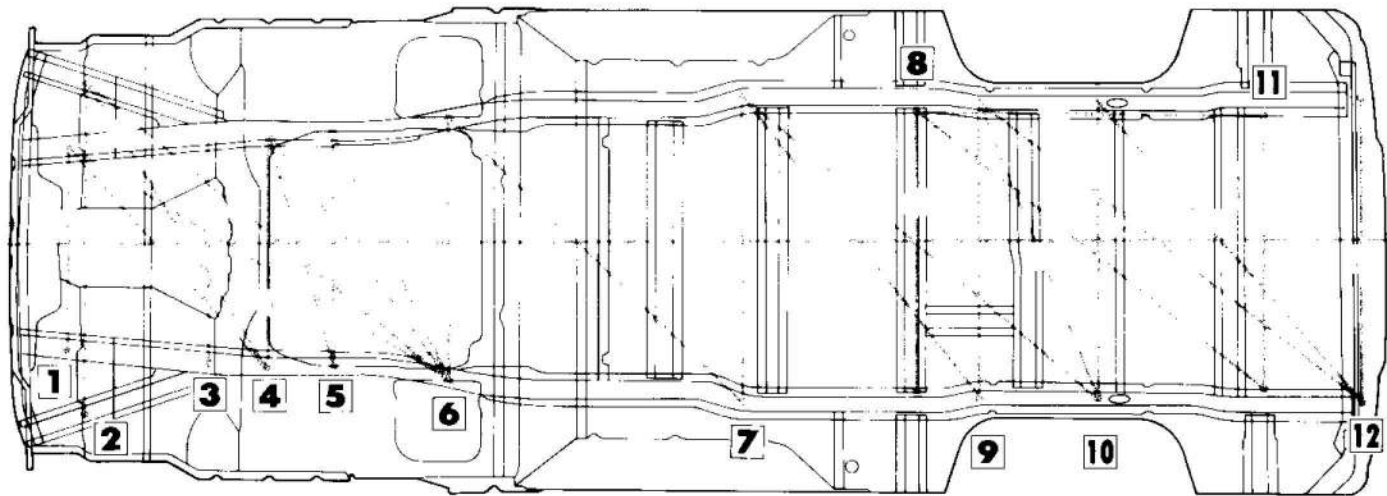
32G0029

Centre of rear bumper bracket mounting hole  
[diameter: 11 mm (0.43 in.)]

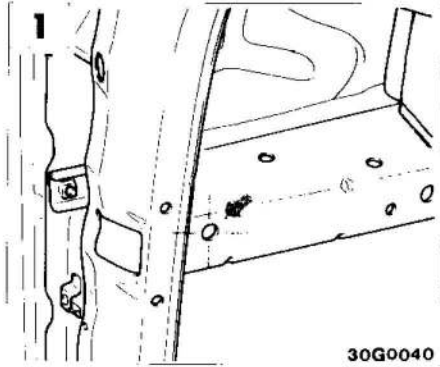
mm (in.)

Long body vehicles (4WD)

No.																	
Length	640 (25.20)	1,100 (43.31)	955 (37.60)	1,600 (62.99)	1,091 (42.95)	1,658 (65.28)	712 (28.03)	736 (28.98)	812 (31.97)	1,098 (43.23)	750 (29.53)	909 (35.79)	846 (33.31)	1,284 (50.55)	990 (38.98)	1,255 (49.41)	921 (36.26)
No.																	
Length	1,498 (58.98)	970 (38.19)	1,020 (40.16)	1,486 (58.50)	1,572 (60.89)	936 (36.85)	1,295 (50.98)	920 (36.22)	980 (38.58)	1,166 (45.91)							

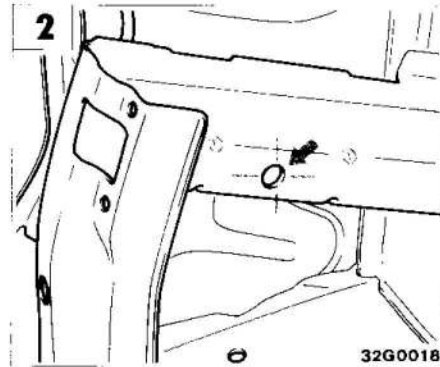


32G0059



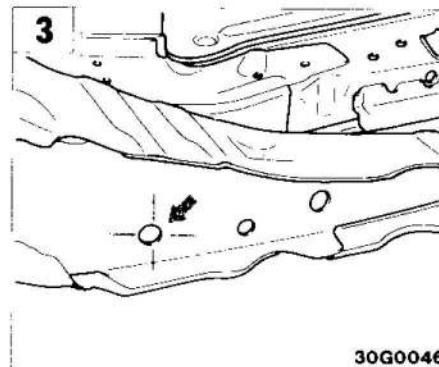
30G0040

Centre of front sidemember (A) locating hole  
[diameter: 15 mm (0.59 in.)]



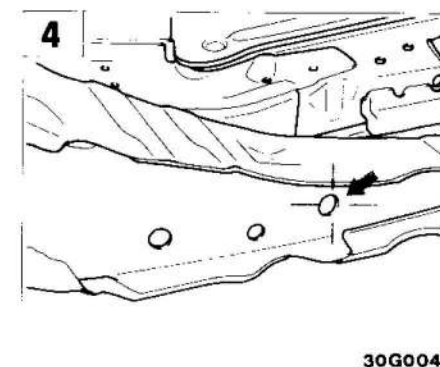
32G0018

Centre of front sidemember (B) locating hole  
[diameter: 15 mm (0.59 in.)]



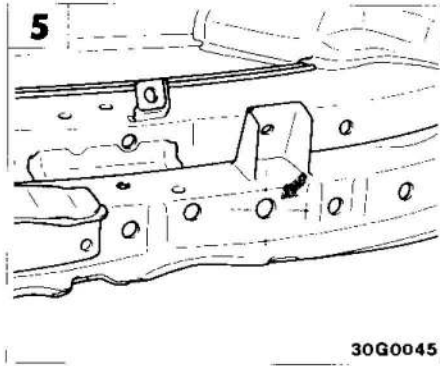
30G0046

Centre of suspension crossmember mounting hole  
[diameter: 18 mm (0.71 in.)]



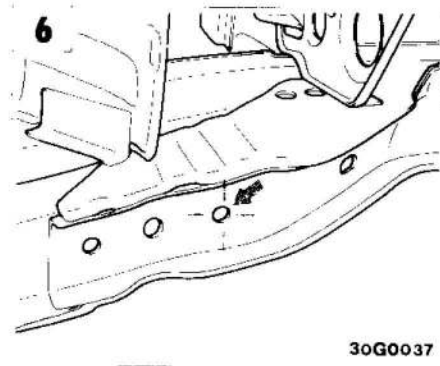
30G0046

Centre of suspension crossmember mounting hole  
[diameter: 18 mm (0.71 in.)]



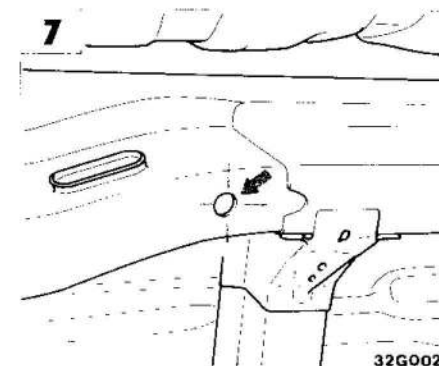
30G0045

Centre of differential crossmember mounting hole  
[diameter: 18 mm (0.71 in.)]



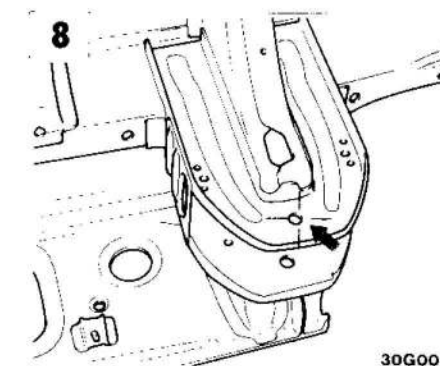
30G0037

Centre of engine support crossmember mounting hole  
[diameter: 13 mm (0.51 in.)]



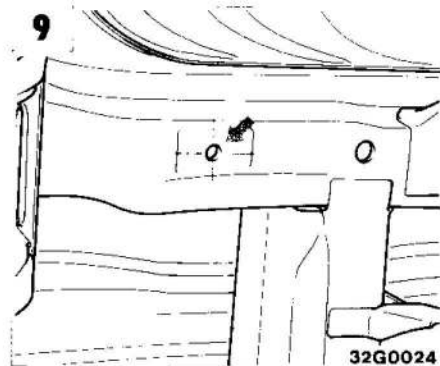
32G0023

Centre of centre sidemember water drain hole [diameter: 15 mm (0.59 in.)]



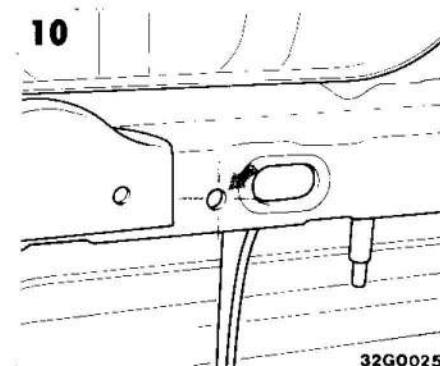
30G0042

Centre of leaf spring pin mounting hole  
[diameter: 14 mm (0.55 in.)]



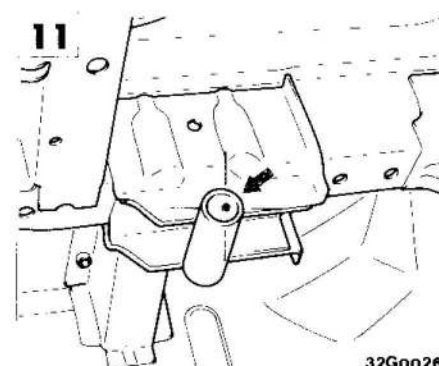
32G0024

Centre of rear sidemember water drain hole [diameter: 9 mm (0.35 in.)]



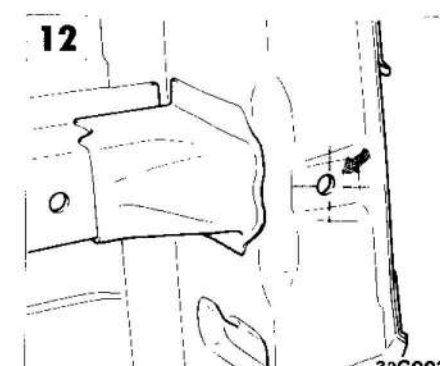
32G0025

Centre of rear sidemember water drain hole [diameter: 11 mm (0.43 in.)]



32G0026

Centre of leaf spring shackle mounting hole [diameter: 28 mm (1.10 in.)]



32G0029

Centre of rear bumper bracket mounting hole [diameter: 11 mm (0.43 in.)]

## FRONT BODY Plain view

mm (in.)

No.	①	②	③	④	⑤	⑥	⑦	⑧
Length	1,108 (43.62)	1,234 (48.58)	941 (37.05)	1,802 (70.94)	1,380 (54.33)	1,260 (49.61)	693 (27.28)	852 (33.54)

## Front view

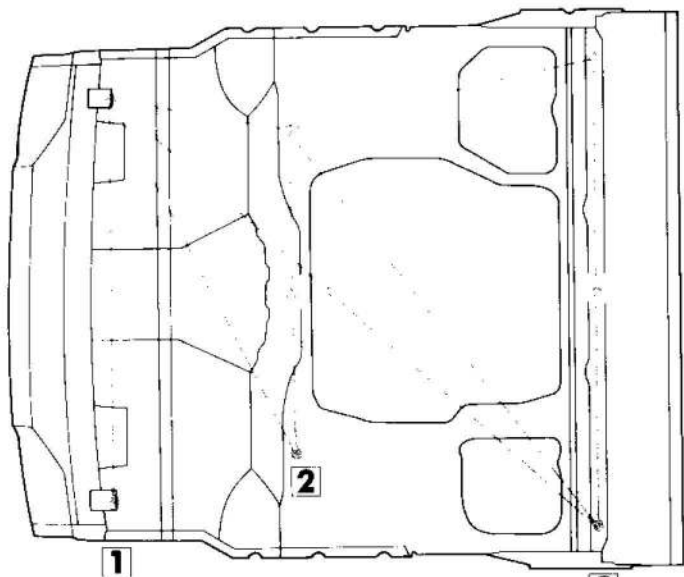
mm (in.)

No.	⑨	⑩	⑪	⑫	⑬	⑭	⑮
Length	1,253 (49.33)	1,460 (57.48)	1,319 (51.93)	1,533 (60.35)	1,282 (50.47)	696 (27.40)	817 (32.17)
No.	⑯	⑰	⑱				
Length	1,505 (59.25)	1,235 (48.62)	802 (31.57)				

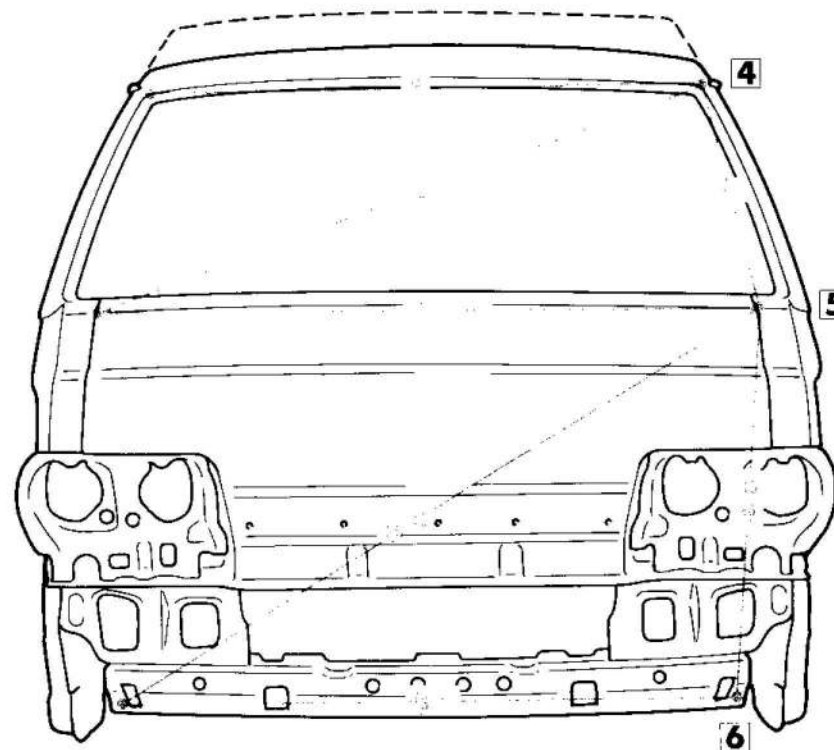
### NOTE

Dimensions ⑫ ⑬ and ⑮: Vehicles for Europe and Australia  
Vehicles for General Export (Exceed and XL-2WD  
models built from July 1990)

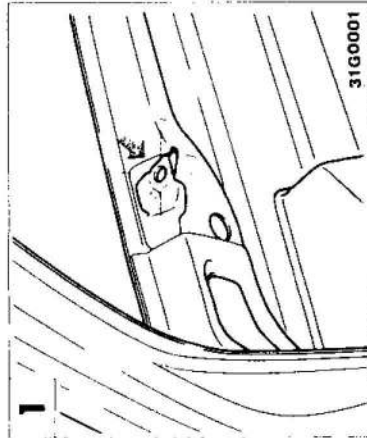
Dimensions ⑯ ⑰ and ⑱: Vehicles for General Export (except Exceed and XL-  
2WD models built from July 1990)



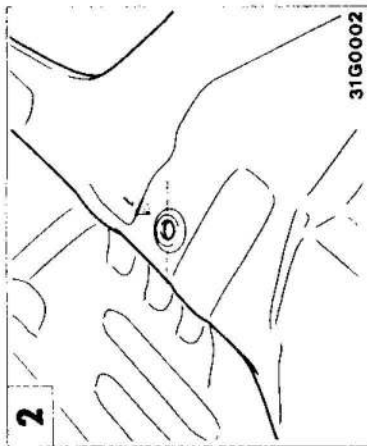
32G0009



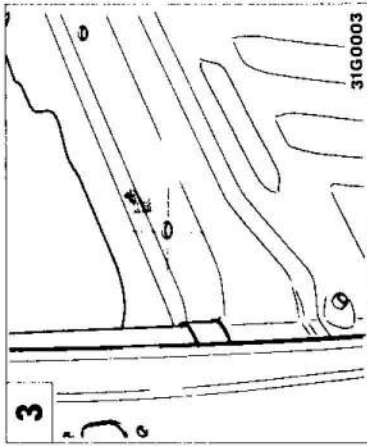
30G0062



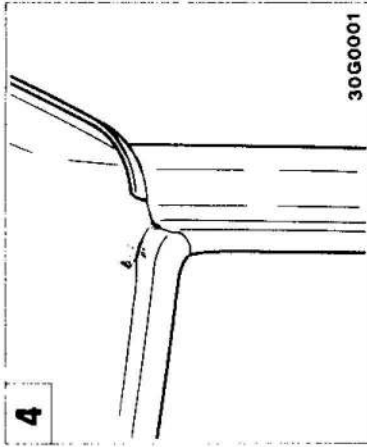
Centre of instrument pad mounting hole  
(diameter: 7 mm (0.28 in.))



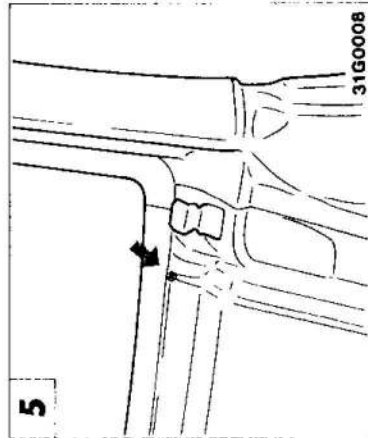
Centre of cabin floor carpet mounting hole  
(diameter: 6 mm (0.24 in.))



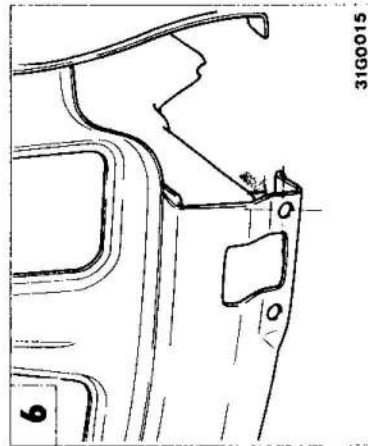
Centre of upright floor carpet mounting hole  
(diameter: 6 mm (0.24 in.))



Roof to front pillar joint



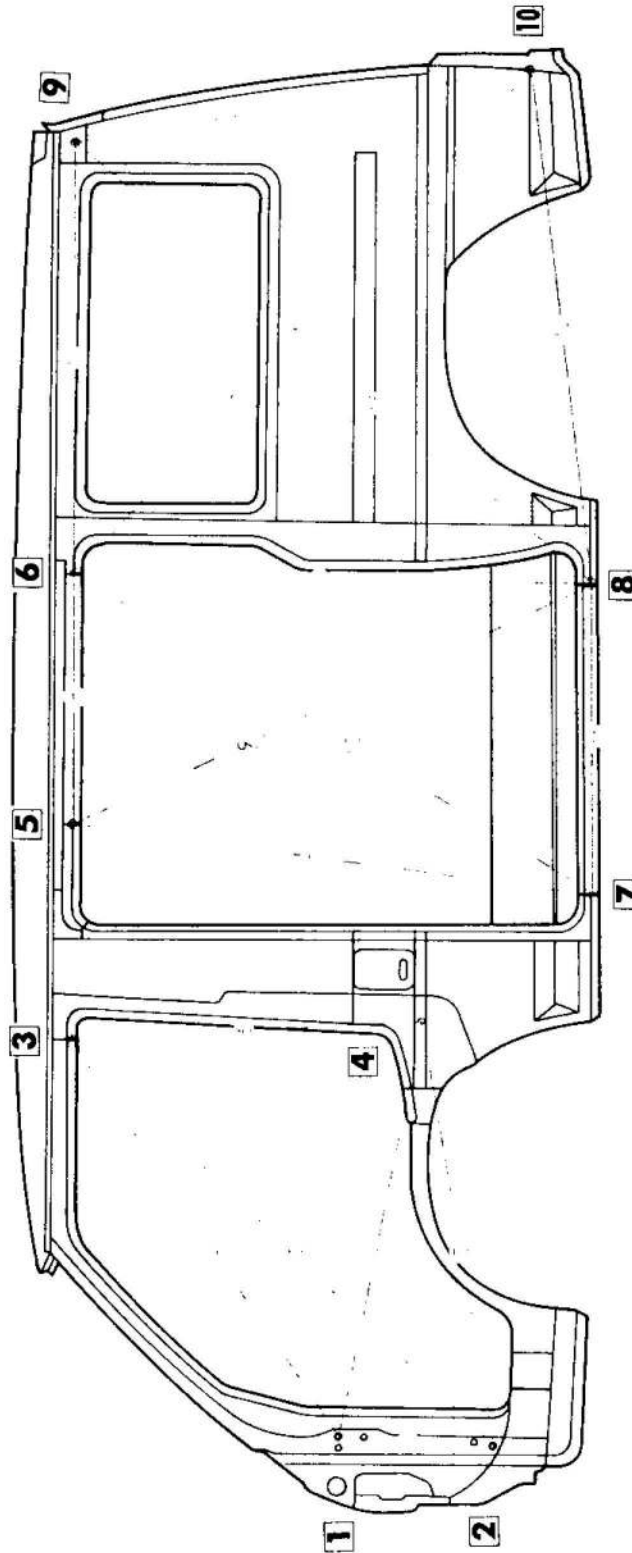
Front panel corner



Centre of front end crossmember corner hole  
(diameter: 10 mm (0.39 in.))

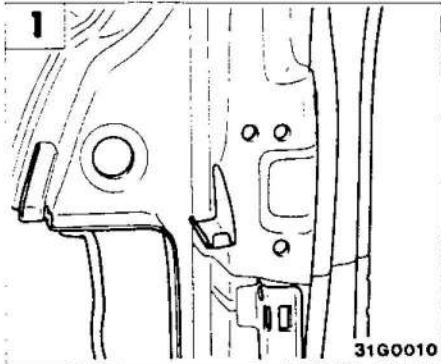
**SIDE BODY**  
Standard body vehicles with five doors

		mm (in.)																			
No.																					
Length	463 (18.23)	1,312 (51.65)	1,625 (63.98)	1,130 (44.49)	1,135 (44.68)	985 (38.78)	1,411 (55.55)	656 (25.83)	1,523 (59.96)	1,669 (65.71)	915 (36.02)	1,383 (54.45)	1,142 (44.96)	1,785 (70.28)	1,804 (71.02)	1,360 (53.54)	1,203 (47.36)				

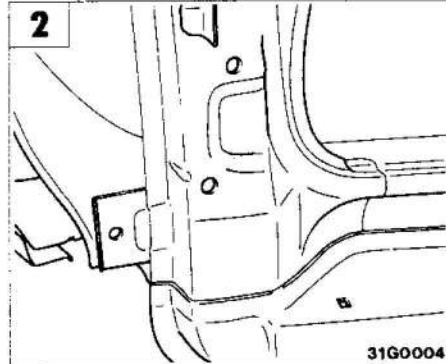


32G0002

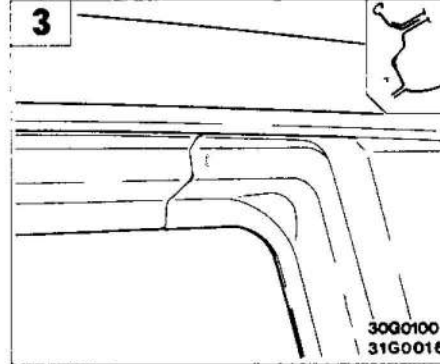




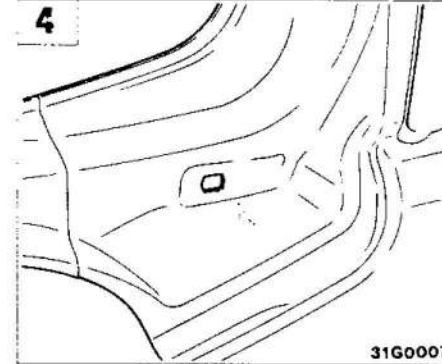
Centre of front door hinge mounting hole  
[diameter: 10 mm (0.39 in.)]



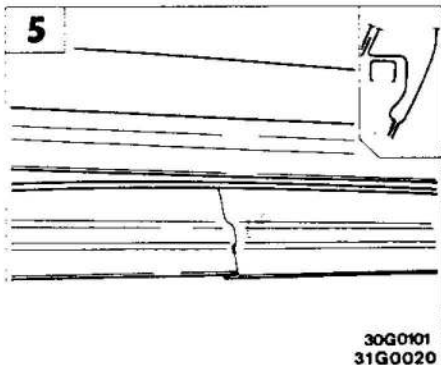
Centre of front door hinge mounting hole  
[diameter: 10 mm (0.39 in.)]



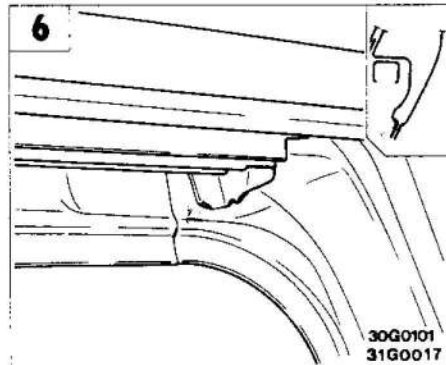
Front pillar to B-pillar joint



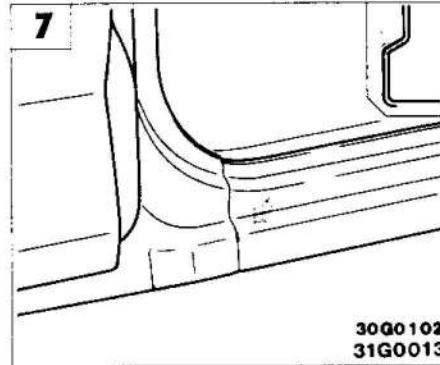
Corner of door switch mounting hole



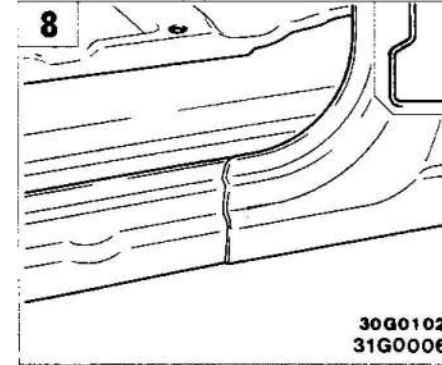
B-pillar to side rail joint



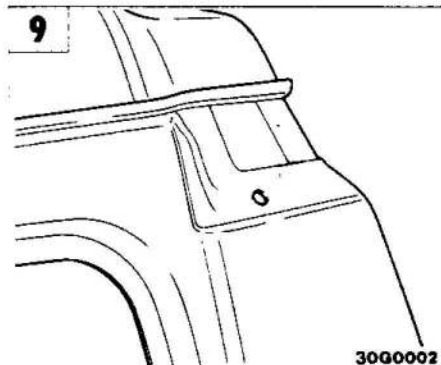
Side rail to rear pillar joint



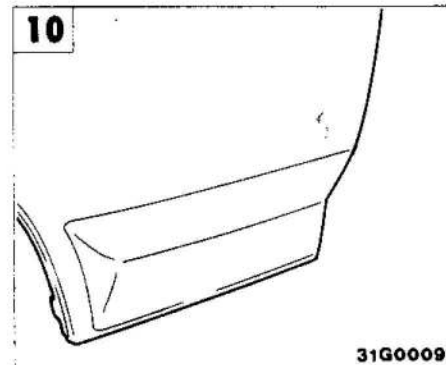
B-pillar to rear side sill joint



Rear side sill to quarter panel joint



Centre of D-pillar cover mounting hole  
[diameter: 7 mm (0.28 in.)]

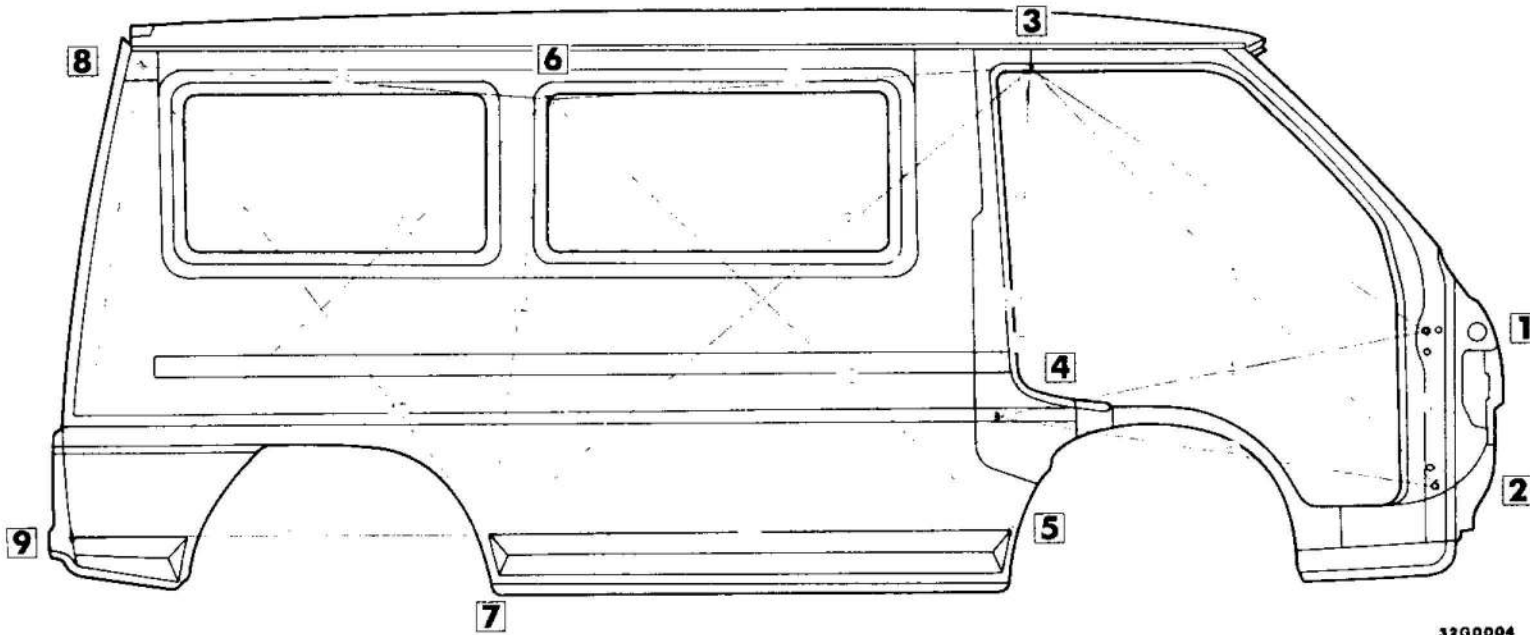


Rear end of quarter corner line

## Standard body vehicles with four doors

mm (in.)

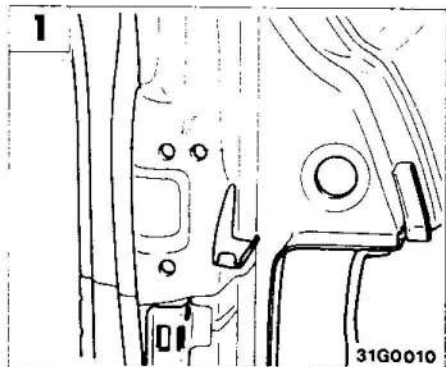
No.	1	2	3	4	5	6	7	8	9								
Length	463 (18.23)	1,312 (51.65)	1,625 (63.98)	1,130 (44.49)	1,135 (44.68)	985 (38.78)	1,250 (49.21)	1,333 (52.48)	1,940 (76.38)	1,762 (69.37)	1,450 (57.09)	1,203 (47.36)	1,087 (42.80)	1,728 (68.03)	1,523 (59.96)	1,117 (43.98)	1,195 (47.05)



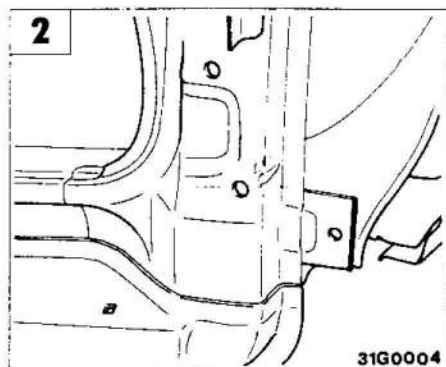
32G0004

## NOTE

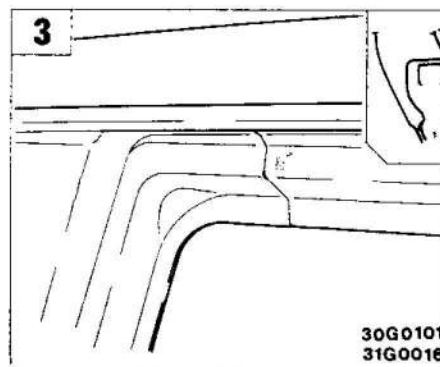
The dimensions for the side opposite to the side shown in the figure above are the same as those for standard body vehicles with five doors.



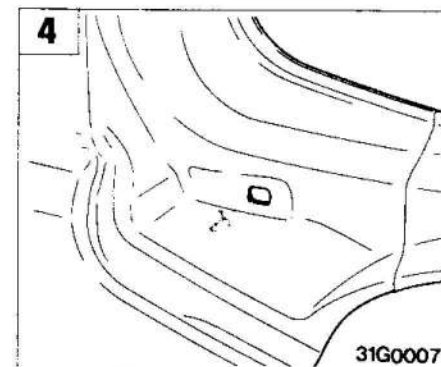
Centre of front door hinge mounting hole  
[diameter: 10 mm (0.39 in.)]



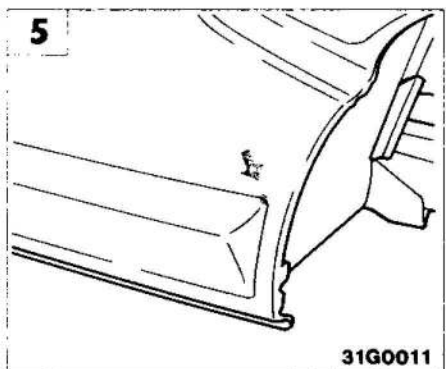
Centre of front door hinge mounting hole  
[diameter: 10 mm (0.39 in.)]



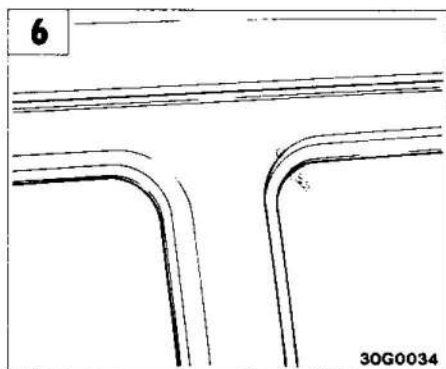
Front pillar to B-pillar joint



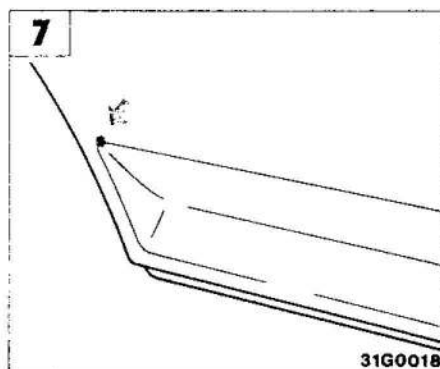
Corner of door switch mounting hole



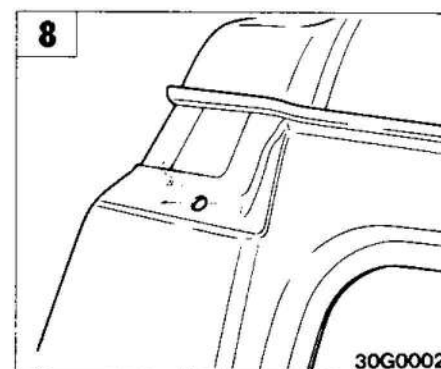
Front end of quarter panel line



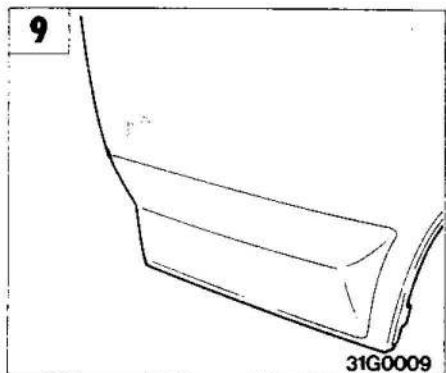
Quarter window corner



Rear end of quarter corner line (centre)



Centre of D-pillar cover mounting hole  
[diameter: 7 mm (0.28 in.)]

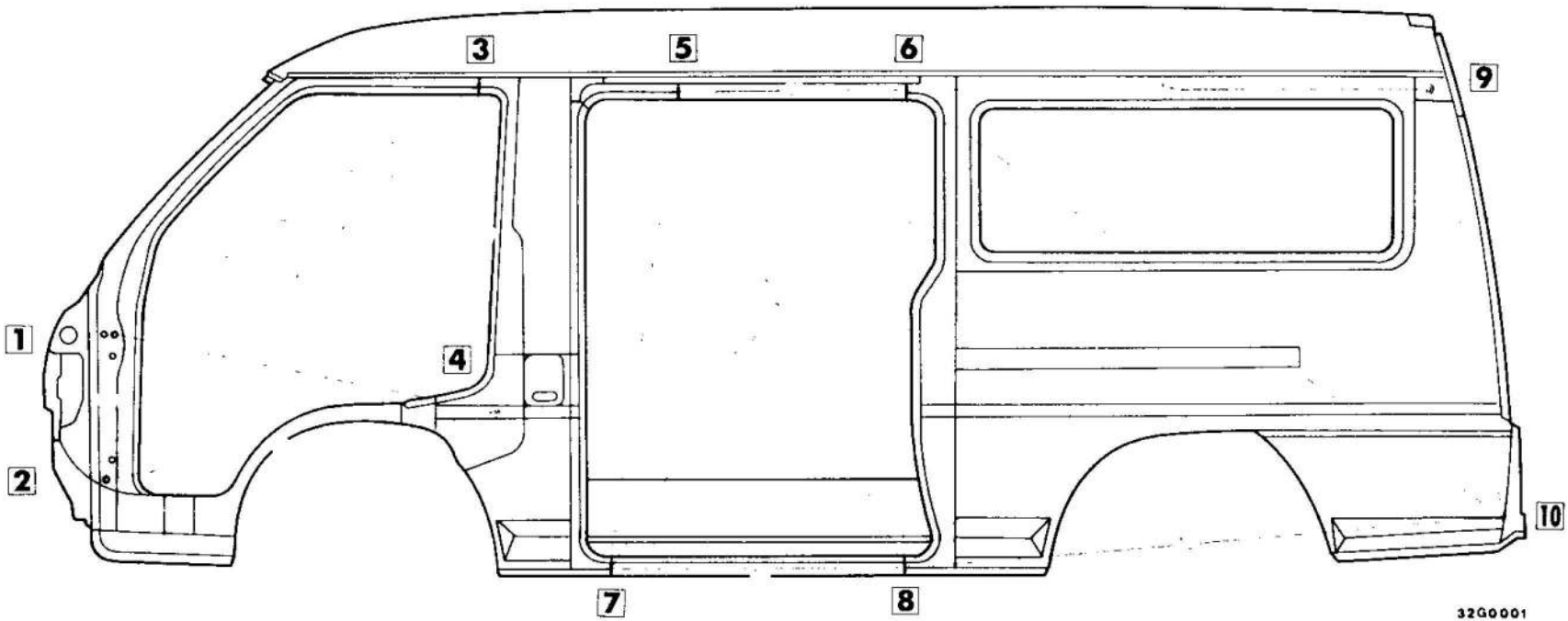


Rear end of quarter corner line

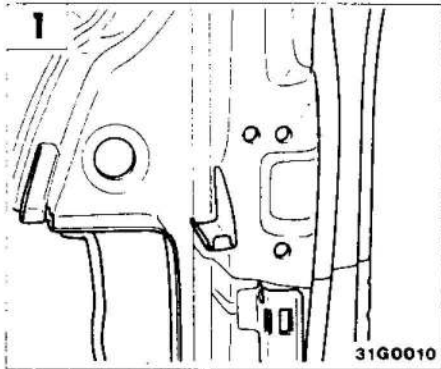
Long body vehicles

mm (in.)

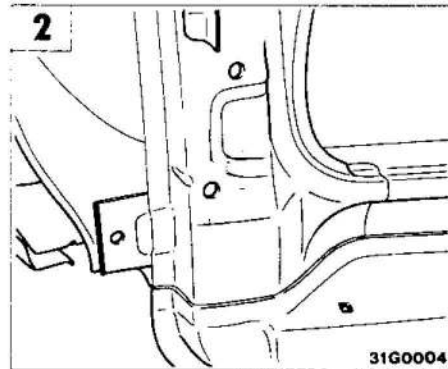
No.																	
Length	463 (18.23)	1,312 (51.65)	1,625 (63.98)	1,130 (44.49)	1,135 (44.68)	985 (38.78)	1,411 (55.55)	656 (25.83)	1,523 (59.96)	1,669 (65.71)	915 (36.02)	1,383 (54.45)	1,542 (60.71)	2,199 (86.57)	2,080 (81.89)	1,758 (69.21)	1,203 (47.36)



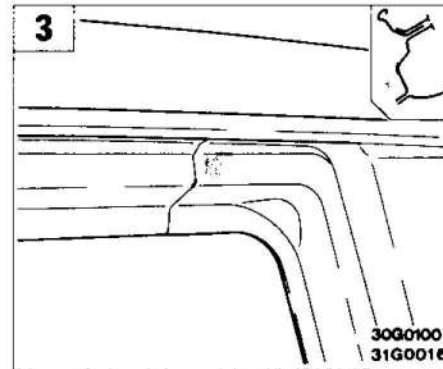
32G0001



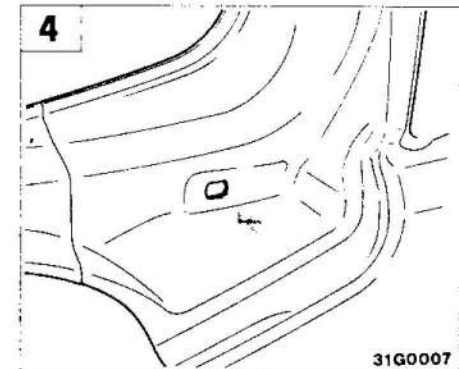
Centre of front door hinge mounting hole  
[diameter: 10 mm (0.39 in.)]



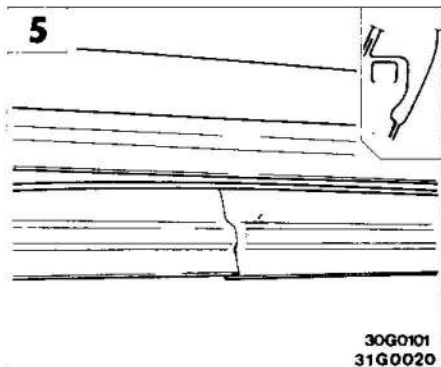
Centre of front door hinge mounting hole  
[diameter: 10 mm (0.39 in.)]



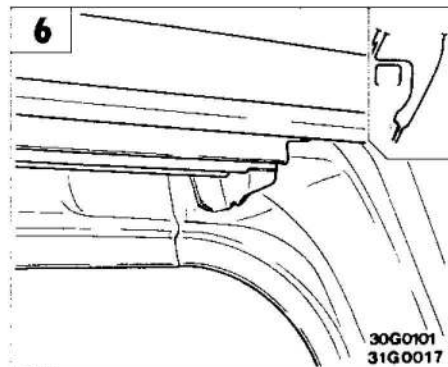
Front pillar to B-pillar joint



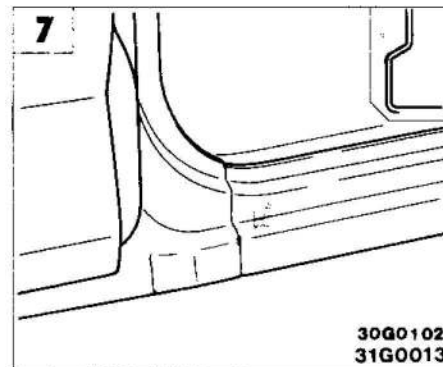
Corner of door switch mounting hole



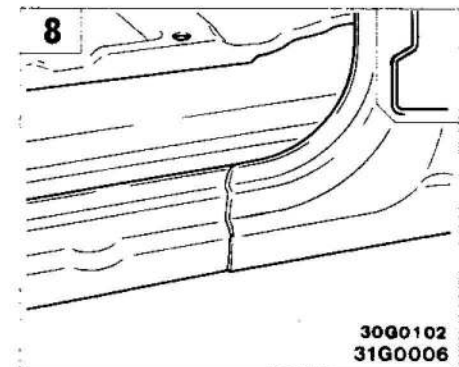
B-pillar to side rail joint



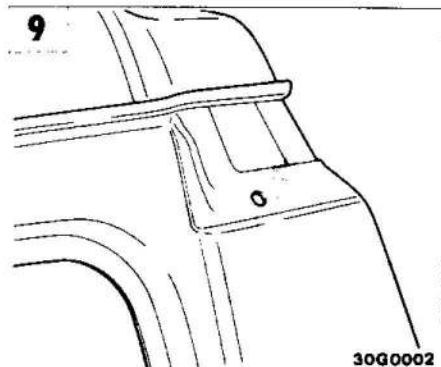
Side rail to rear pillar joint



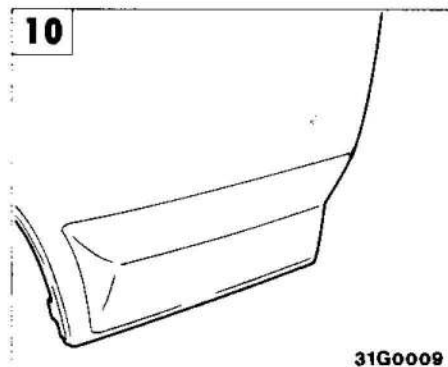
B-pillar to rear side sill joint



Rear side sill to quarter panel joint



Centre of D-pillar cover mounting hole  
[diameter: 7 mm (0.28 in.)]

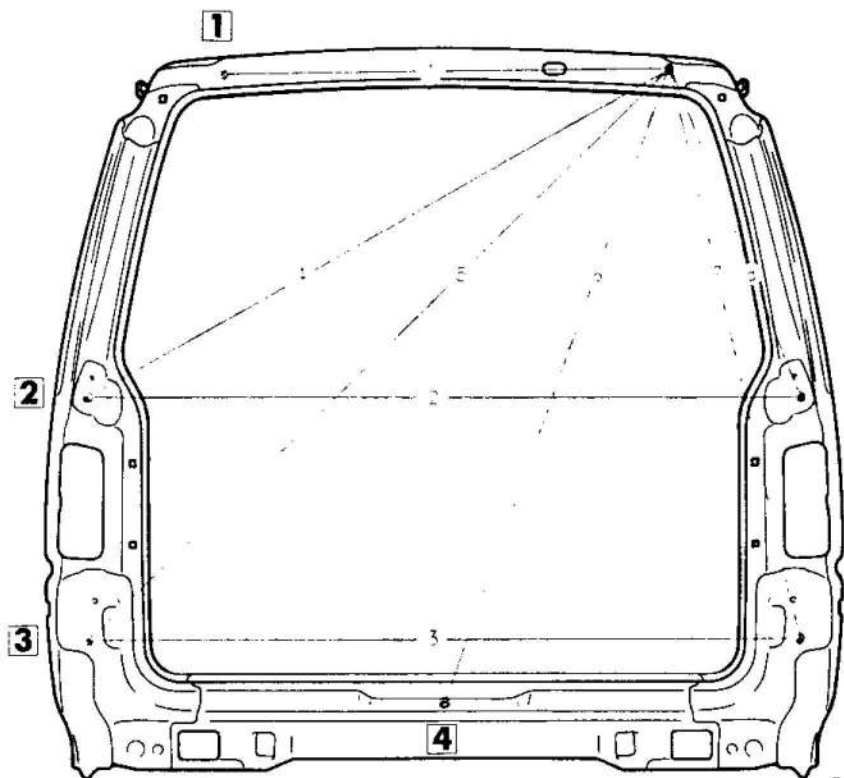


Rear end of quarter corner line

### REAR BODY Standard roof

mm (in.)

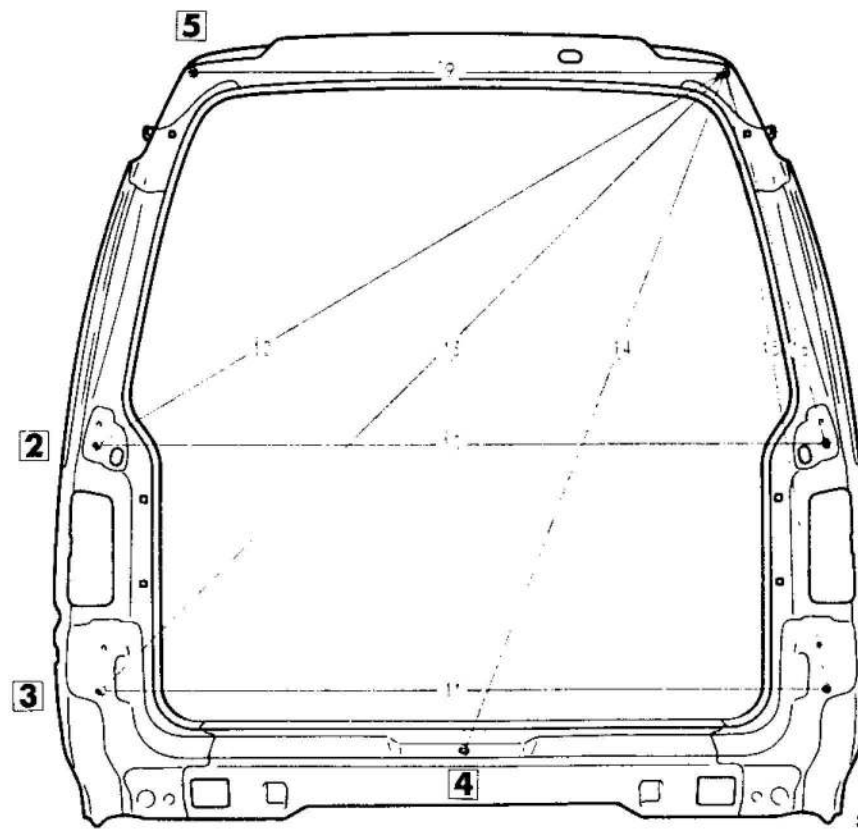
No.	1	2	3	4★	5★	6★	7★	8★
Length	976 (38.43)	1,489 (58.62)	1,478 (58.19)	1,396 (54.96)	1,677 (66.02)	1,357 (53.43)	1,171 (46.10)	706 (27.80)

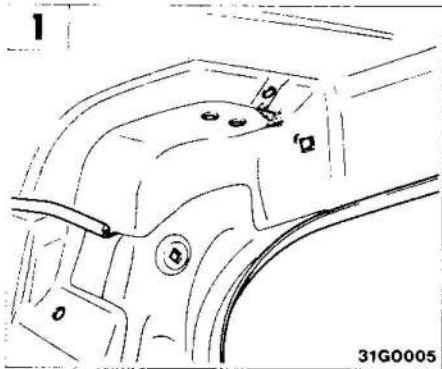


### High roof

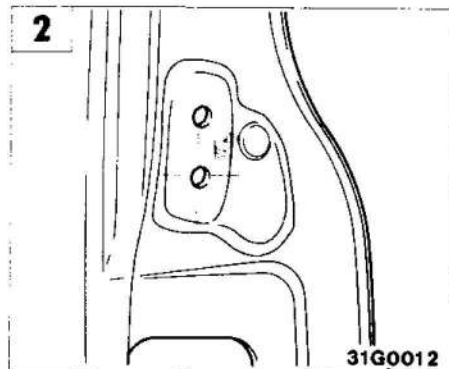
mm (in.)

No.	9	10	11	12★	13★	14★	15★	16★
Length	1,132 (44.57)	1,489 (58.62)	1,478 (58.19)	1,514 (59.61)	1,803 (70.98)	1,482 (58.35)	1,257 (49.49)	800 (31.50)

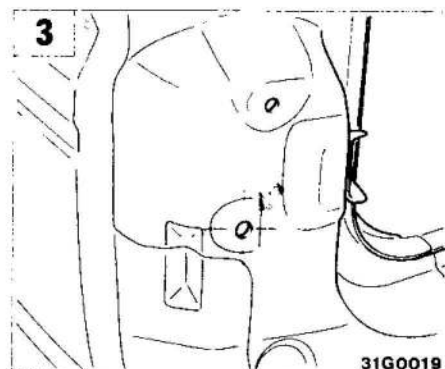




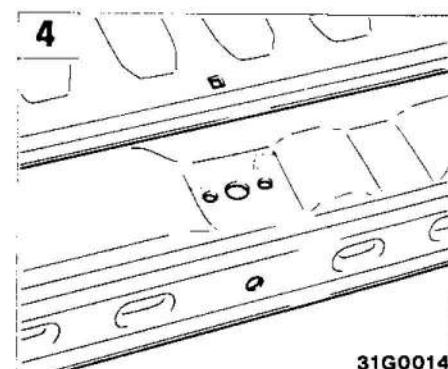
Centre of D-pillar cover mounting hole



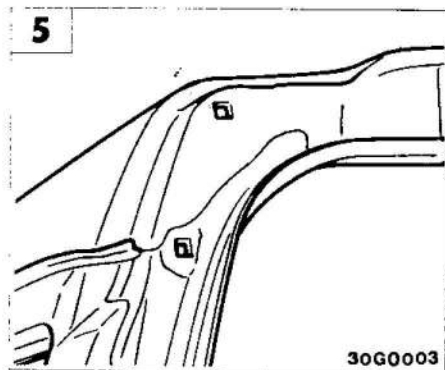
Centre of tailgate stopper mounting hole  
[diameter: 7 mm (0.28 in.)]



Centre of rear side bumper mounting hole  
[diameter: 6.5 mm (0.26 in.)]



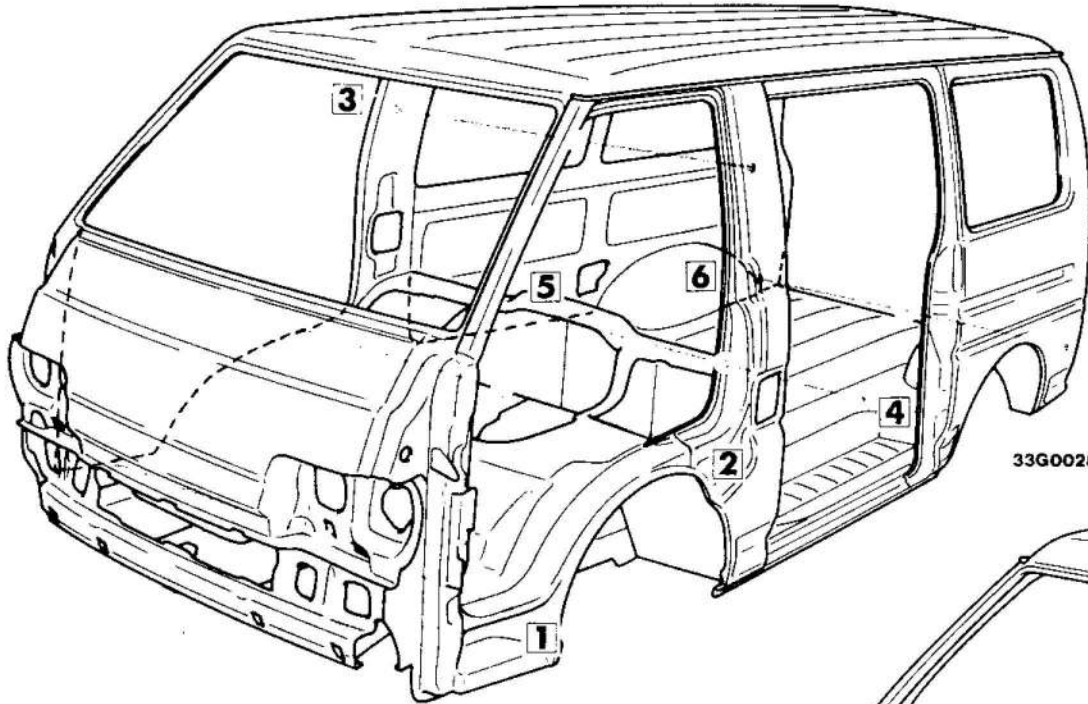
Centre of tailgate striker mounting hole  
[diameter: 9 mm (0.35 in.)]



Corner of D-pillar cover mounting hole

**INTERIOR**  
**Standard body vehicles**  
**with four doors**

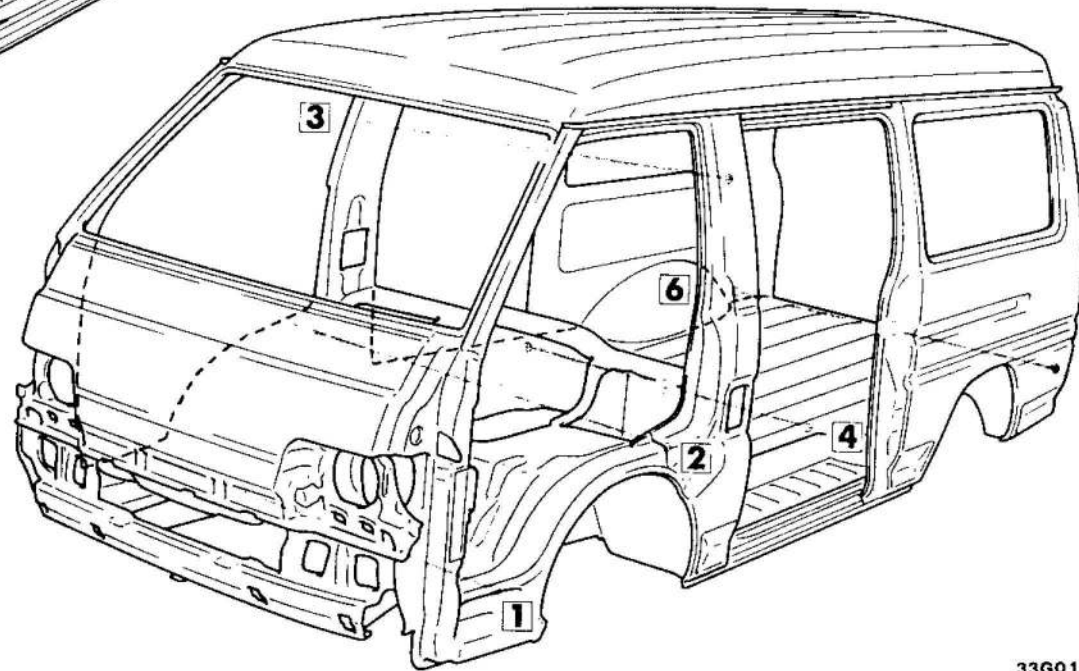
No.	mm (in.)				
Length	1,472 (57.95)	1,577 (62.09)	1,344 (52.91)	1,368 (53.86)	1,539 (60.59)



33G0028

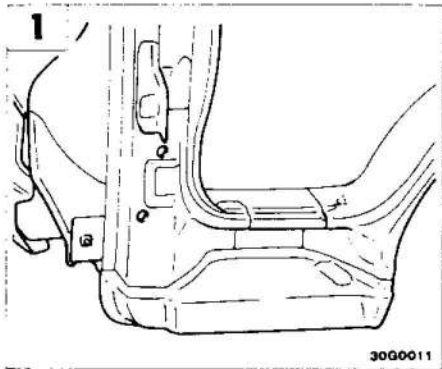
**Standard body vehicles**  
**with five doors**  
**Long body vehicles**

No.	mm (in.)				
Length	1,472 (57.95)	1,577 (62.09)	1,344 (52.91)	1,213 (47.76)	1,539 (60.59)

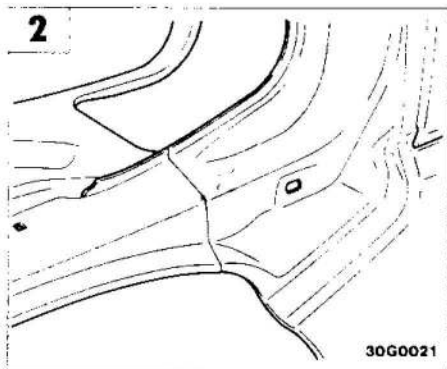


33G0122

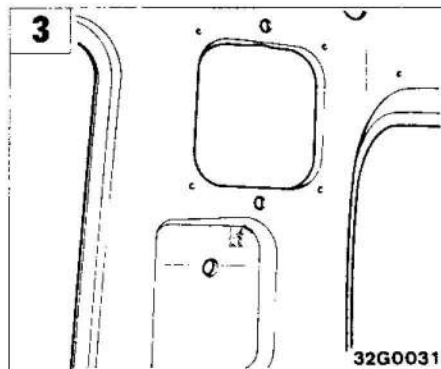




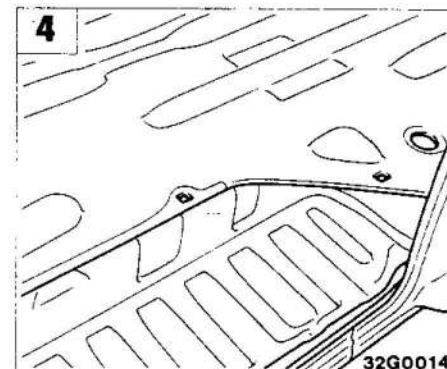
Front pillar to front side sill joint



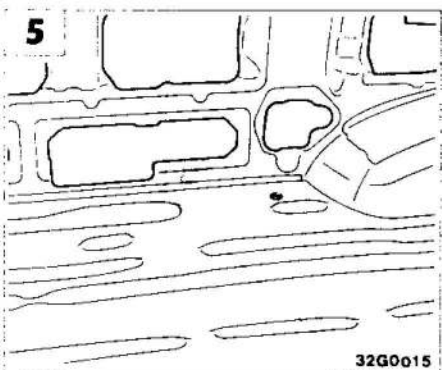
Front side sill to B-pillar joint



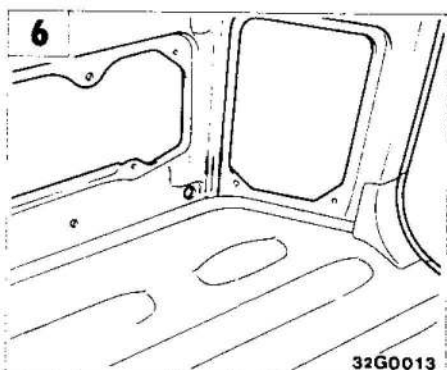
Centre of front seat belt mounting hole  
[diameter: 14 mm (0.55 in.)]



Corner of step plate mounting hole



Floor to quarter panel joint



Centre of quarter trim mounting hole  
[diameter: 14 mm (0.55 in.)]


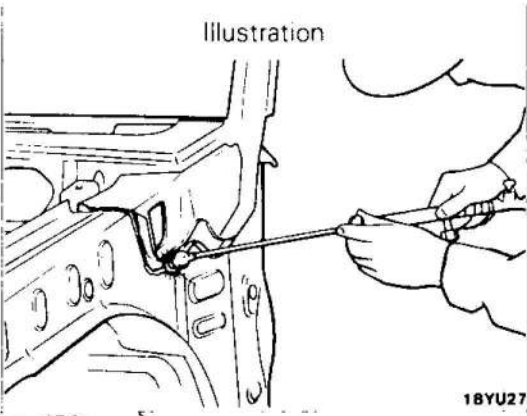
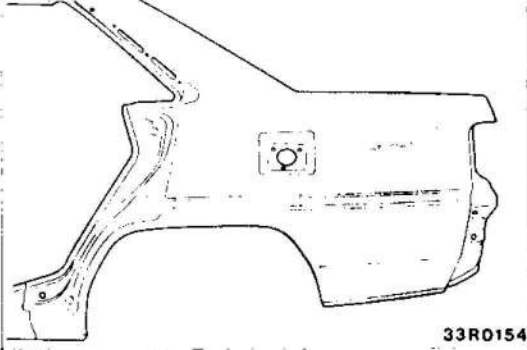


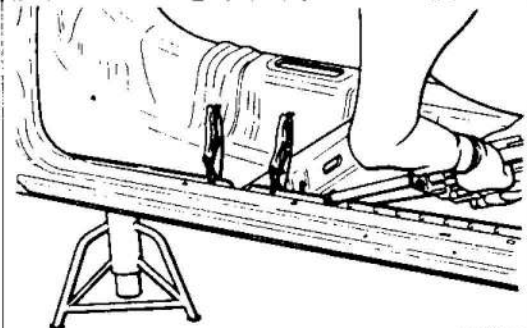

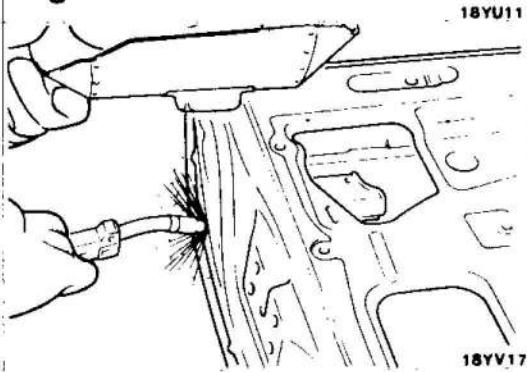
# WELDED PANEL REPLACEMENT

## EXPLANATION OF MANUAL CONTENTS

The basic parts supply units of the body structure are the weld-mounted outer panels. Herein are explained the procedures for replacement of these panels.

### SYMBOLS

The various operations for panel replacement are designated by the following symbols.

Symbol	Operation description	Illustration
	Rough cutting of the panel to be replaced	 <p>18YU27</p>
<p>Possible cutting range for area to be butt welded</p>	 <p>33R0154</p>	
 	<p>Spot welding</p> <ul style="list-style-type: none"> <li>● indicates two panels to be welded</li> <li>⦿ indicates three panels to be welded</li> </ul>	 <p>18YU11</p>
	MIG spot welding	 <p>18YV17</p>

Symbol	Operation description	Illustration
	MIG arc welding (continuous)	<p>18YU18</p>
	Braze welding	<p>18YV91</p>
	MIG plug welding	
	<p>■ indicates two panels to be welded                      □ indicates three panels to be welded</p>	

EXPLANATION OF WELDED PANEL REPLACEMENT

The replacement parts to be used in the welded panel replacement are indicated here:

- "ASSEMBLY" indicates that the assembly part (for example, **A** and **B**) is to be used without alteration.
- "CUT" indicates that, because of the configuration of the vehicle structure, the replacement panel (for example, **A** and **B**) is to be cut into easy-to-use sections and then used for replacement.
- "PART" indicates that only the damaged section of the assembly part (for example, **A** and **B**) is to be replaced by a section of the replacement panel.

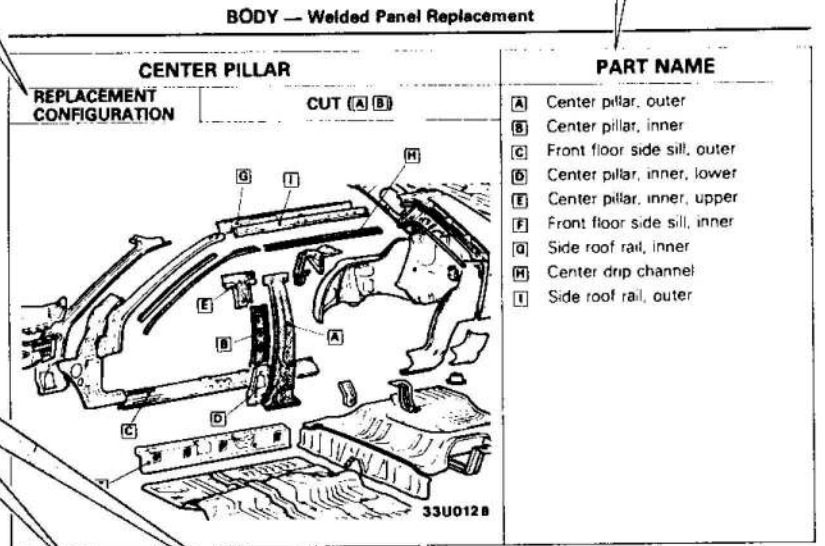
Note that, in "CUT" and "PART" replacements, the location of the cutting must be selected carefully, considering both the construction of the vehicle and the level of strength following repairs.

Shows the part names keyed by symbols in the illustration.

The welded components are indicated by using the designations given in the illustration.

For example, "A + E" indicates that component **A** and component **E** shown in the illustration are welded together.

★ This mark is used to indicate the weld of a part which is especially important to the vehicle body from a structural viewpoint; therefore, the weld must be made securely.



The weld point classification numbers are indicated:

○ indicates one panel to be replaced.

□ indicates two (or more) panels to be replaced.

No.	Welded parts	F	R	No.	Welded parts	F	R
①	A + E ★	12	12				
②	A + E ★	2	2				
③	A + B + E ★	6	Plug 6				
④	A + B	4	4				
⑤	A + B	13	Plug 13				
⑥	A + B + B	4	Plug 4				
⑦	A + D	6	6				
⑧	A + C + F	2	Plug 2				
⑨	A + C	2	Plug 2				
⑩	A + C	6	Plug 6				
⑪	B + D	3	Plug 3				
⑫	A + E + D ★	2	Plug 2				
⑬	A + H + I ★	4	Plug 4				
⑭	A + E + I ★	2	Plug 2				

If only a number is listed, it indicates that the method is spot welding; for all other methods, both the welding method and the number of welds will be indicated.

For example, "F4, R Plug 4" indicates that the 4 spot welds made at the factory should be replaced by 4 plug welds if repairs are made.

"F" indicates the number of factory welds to be separated.

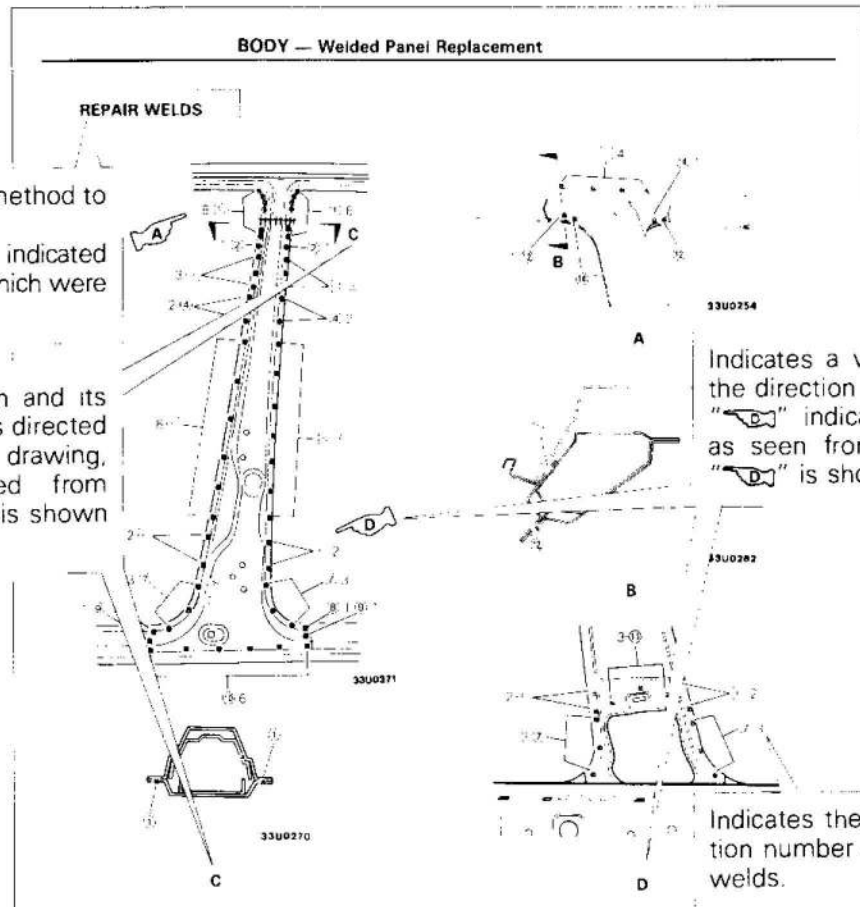
"R" indicates the number of welds to be made, and the method to be used, when making repairs.

Indicates the welding method to be used for repair.  
The welding method is indicated by using the symbols which were explained left.

Indicates cross section and its position. If arrow (C) is directed from up to down in drawing, cross section viewed from upper side of drawing is shown at C.

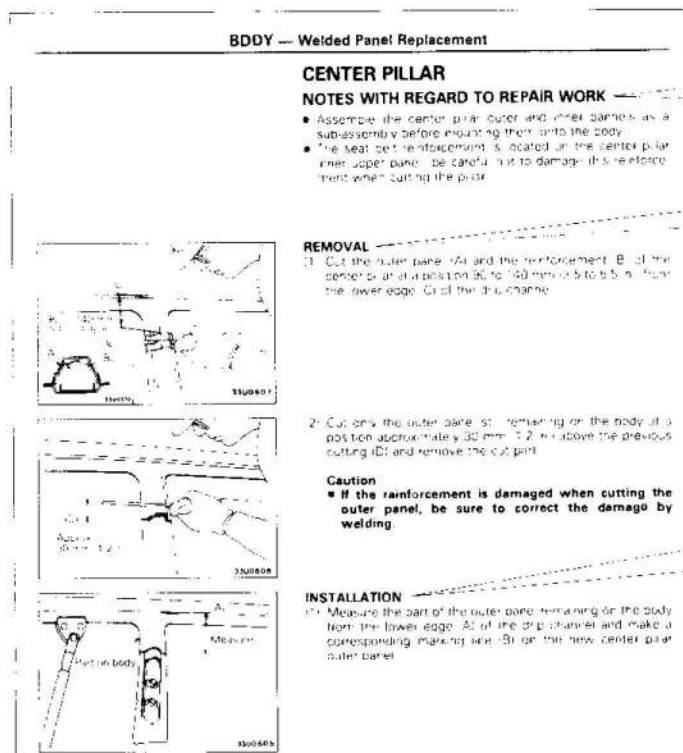
Indicates a view as seen from the direction of the finger.  
"A" indicates that the view as seen from the direction of "A" is shown in figure D.

Indicates the welding identification number and the number of welds.



**NOTES WITH REGARD TO REPAIR WORK**

Notes with regard to repair work are given at the end of the "Welded Panel Replacement."



Points which require particular attention during welded panel replacement work.

The panel removal instructions and accompanying illustrations are given in the order in which the work is to be performed.  
In order to keep the instructions brief and simple, obvious work procedures (such as removal of a panel after it has been cut) have been omitted where possible.

The panel installation instructions and accompanying illustrations are given in the order in which the work is to be performed. In order to keep the instructions brief and simple, obvious work procedures (such as removal of a panel after it has been cut) have been omitted where possible.

**NOTE**

Refer to the related publications for removal and installation procedures of the associated parts as may be necessary when replacing the welded panels. Especially with the wheel alignment and headlight aiming procedures, make sure that you are working with a correct procedure.

Vehicles for Europe (except Mini-bus built from November 1990)  
 Vehicles for Australia (except Mini-bus built from July 1990)  
 Vehicles for General Export (except Exceed and XL-2WD models built from July 1990)

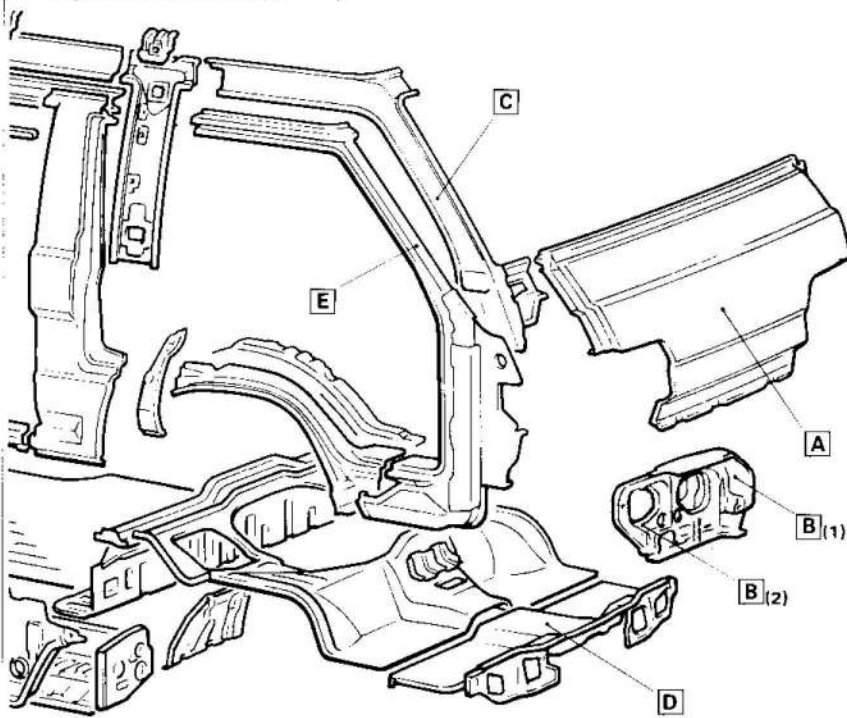
**FRONT PANEL/HEADLAMP HOUSING**

**PART NAME**

**REPLACEMENT CONFIGURATION**

**ASSEMBLY (A B<sub>(1)</sub> B<sub>(2)</sub>)**

- A** Front panel
- B<sub>(1)</sub>** Headlamp housing
- B<sub>(2)</sub>** Headlamp support bracket
- C** Front pillar, inner, upper
- D** Front floor pan (A)
- E** Front pillar, outer



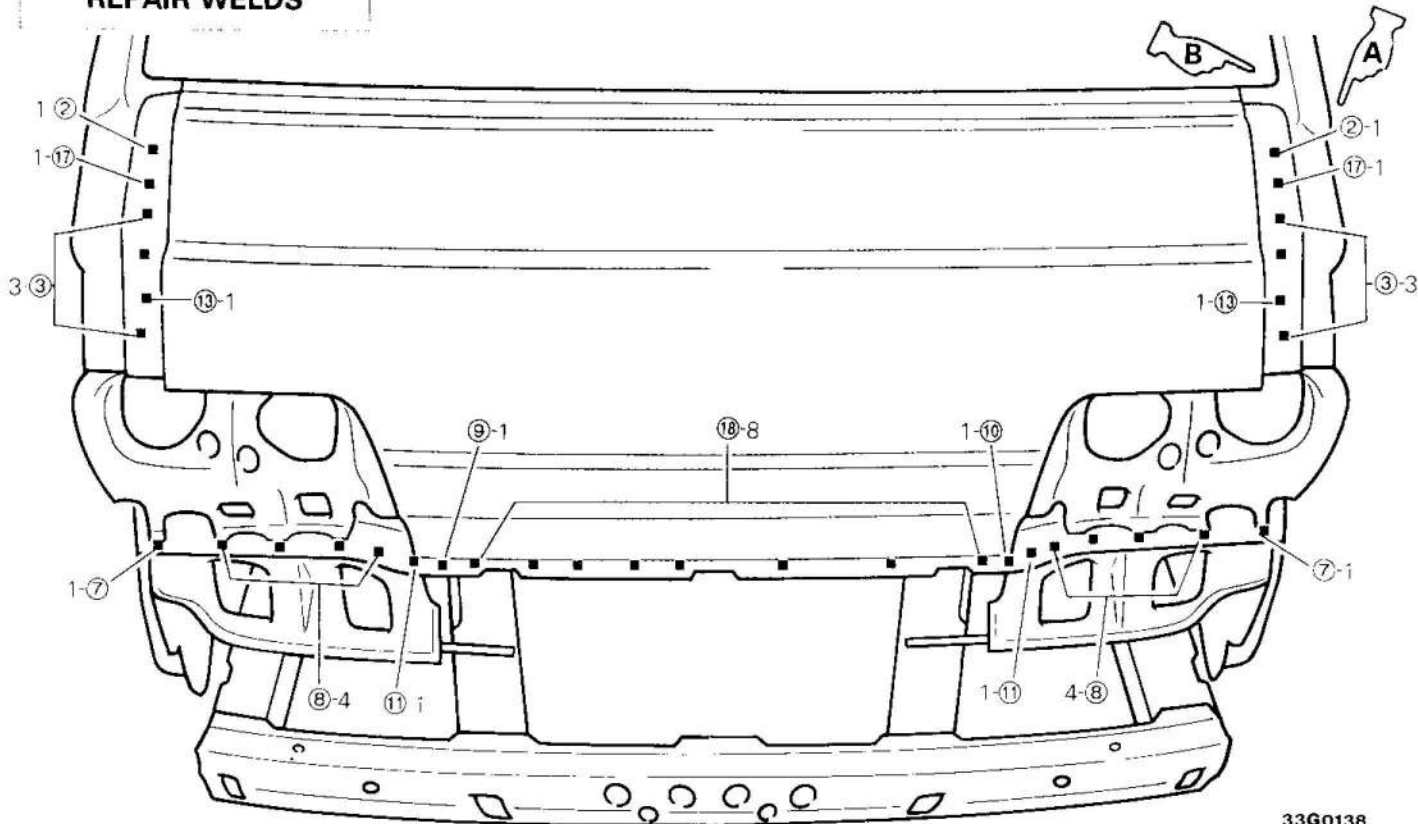
30G0228

No.	Welded parts	F	R
①	A + C + E	2	Plug 2
②	A + E	2	Plug 2
③	A + E	6	Plug 6
④	B <sub>(1)</sub> + E	12	Plug 12
⑤	B <sub>(1)</sub> + B <sub>(2)</sub>	12	Plug 12
⑥	B <sub>(1)</sub> + B <sub>(2)</sub> + E	2	Plug 2
⑦	B <sub>(1)</sub> + D + E	2	Plug 2
⑧	B <sub>(1)</sub> + D	8	Plug 8
⑨	A + D	1	Plug 1
⑩	A + D	1	Plug 1
⑪	B <sub>(1)</sub> + D	2	Plug 2
⑫	A + B <sub>(1)</sub>	20	Plug 20
⑬	A + E	2	Plug 2
⑭	A + C	2	Plug 2
⑮	A + C	2	Plug 2
⑯	A + C	2	Plug 2
⑰	A + C	4	Plug 4

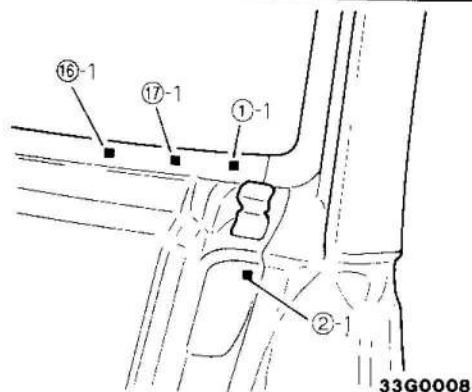
No.	Welded parts	F	R
⑱	A + D	8	Plug 8
⑲*	B <sub>(1)</sub> + B <sub>(2)</sub>	2	Plug 2

\* Mini-bus for vehicles for Australia

REPAIR WELDS

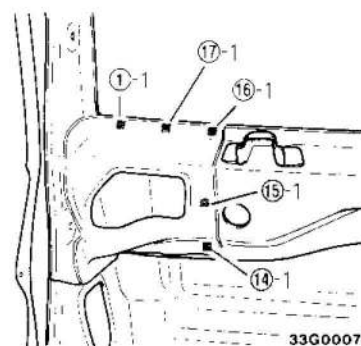


33G0138



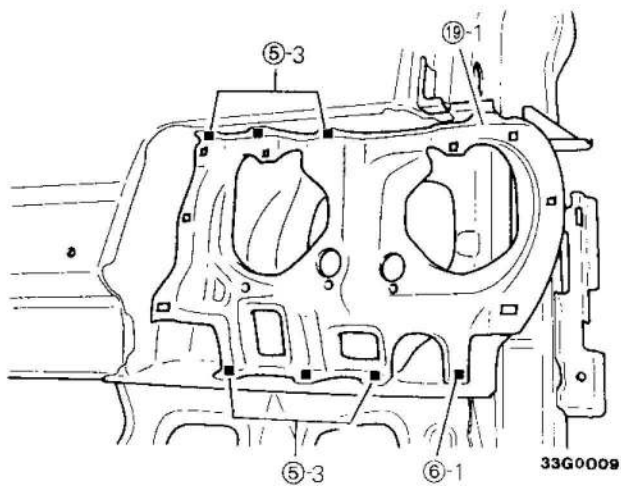
33G0008

A



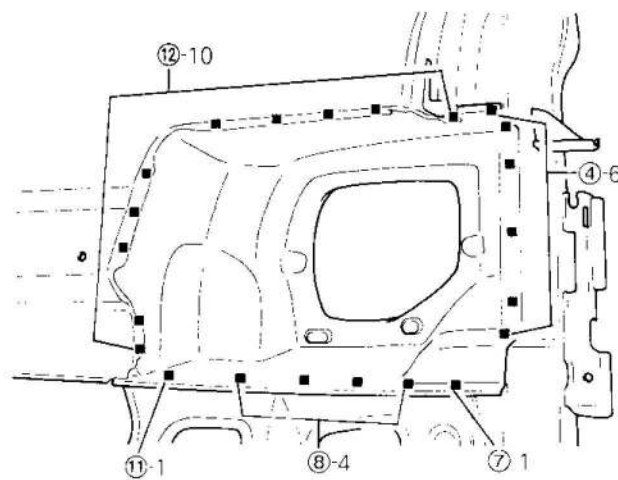
33G0007

B



33G0009

Headlamp Support Bracket



33G0010

Headlamp Housing

Vehicles for Europe (Mini-bus built from November 1990)  
 Vehicles for Australia (Mini-bus built from July 1990)  
 Vehicles for General Export (Exceed and XL-2WD models built from July 1990)

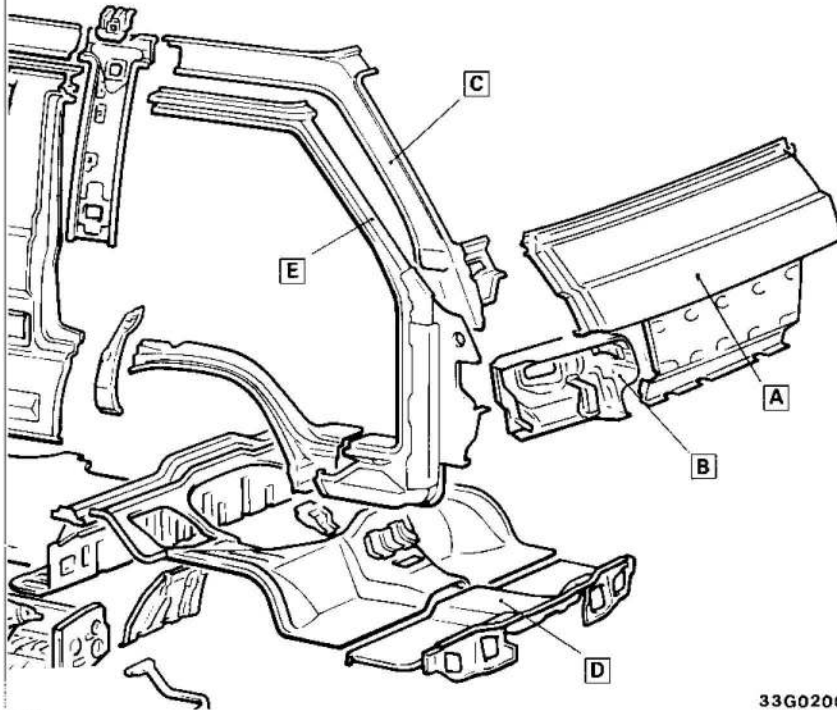
**FRONT PANEL/HEADLAMP HOUSING**

**PART NAME**

**REPLACEMENT CONFIGURATION**

**ASSEMBLY (A B)**

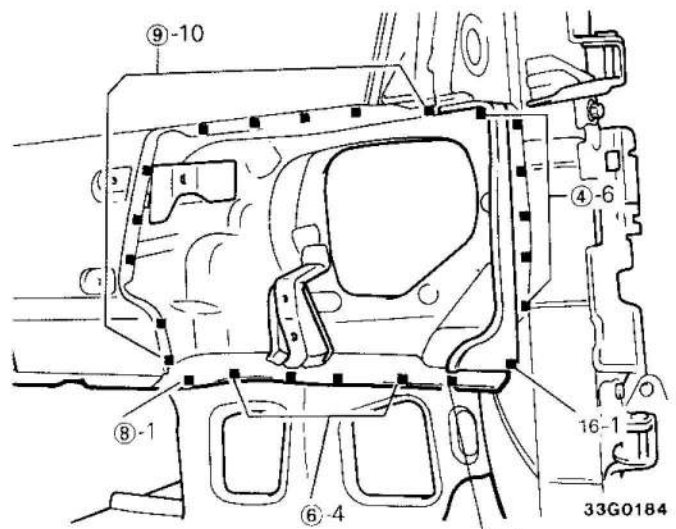
- A** Front panel
- B** Headlamp housing
- C** Front pillar, inner, upper
- D** Front floor pan (A)
- E** Front pillar, outer



33G0200

No.	Welded parts	F	R
①	A + C + E	2	Plug 2
②	A + E	2	Plug 2
③	A + E	6	Plug 6
④	B + E	12	Plug 12
⑤	B + D + E	2	Plug 2
⑥	B + D	8	Plug 8
⑦	A + D	1	Plug 1
⑧	B + D	2	Plug 2
⑨	A + B	20	Plug 20
⑩	A + E	2	Plug 2
⑪	A + C	2	Plug 2
⑫	A + C	2	Plug 2
⑬	A + C	2	Plug 2
⑭	A + C	4	Plug 4
⑮	A + D	8	Plug 8
⑯	B + E	2	Plug 2

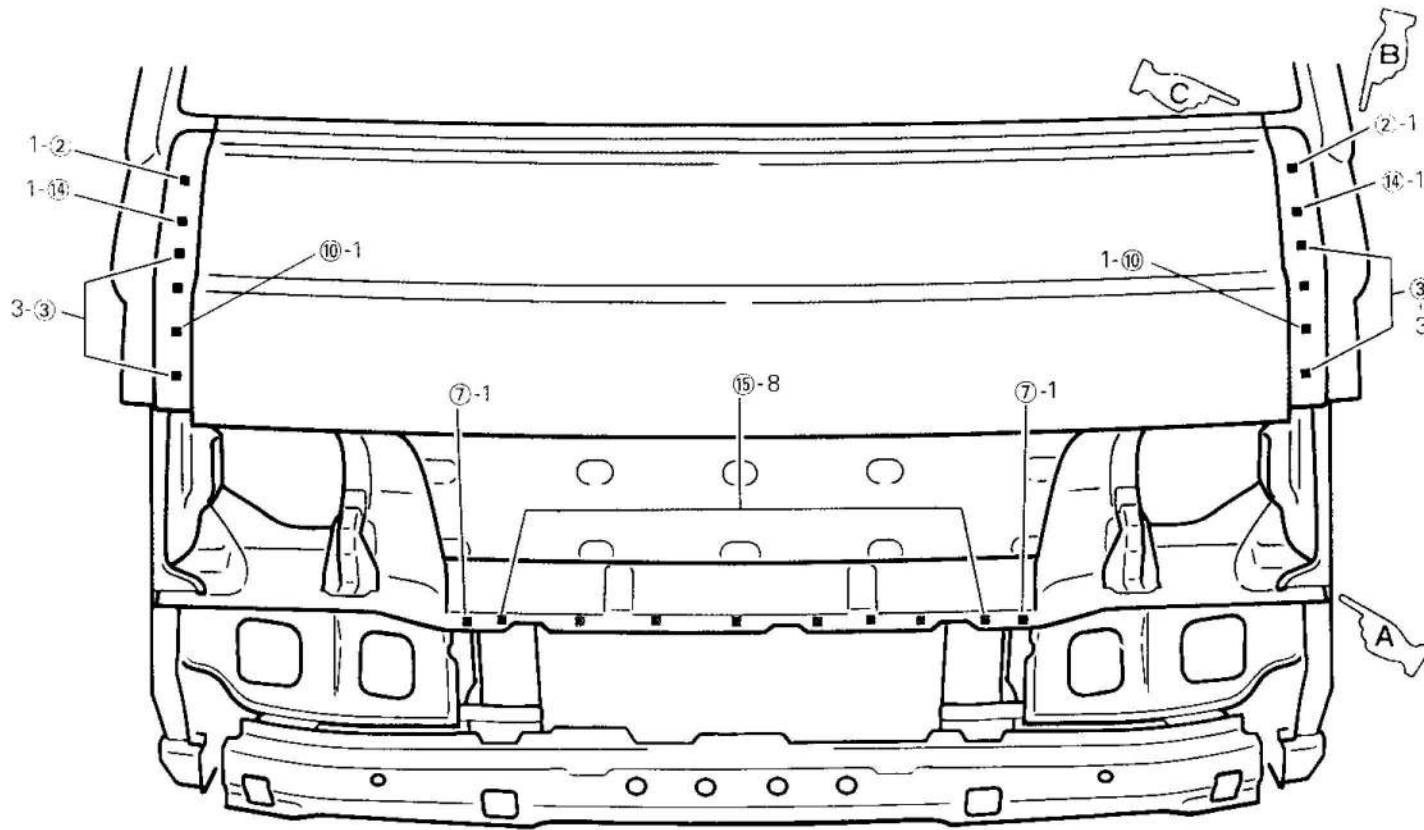
**REPAIR WELDS**



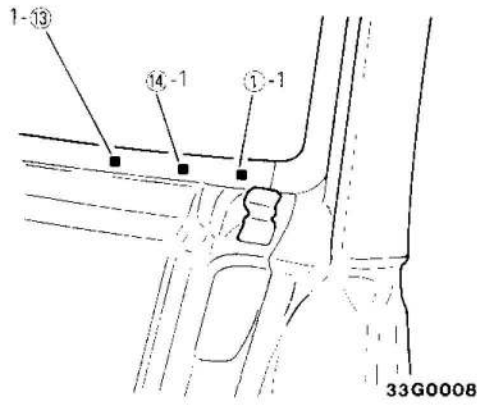
33G0184

**A**

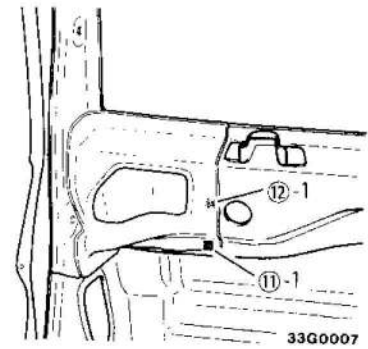




33G0194



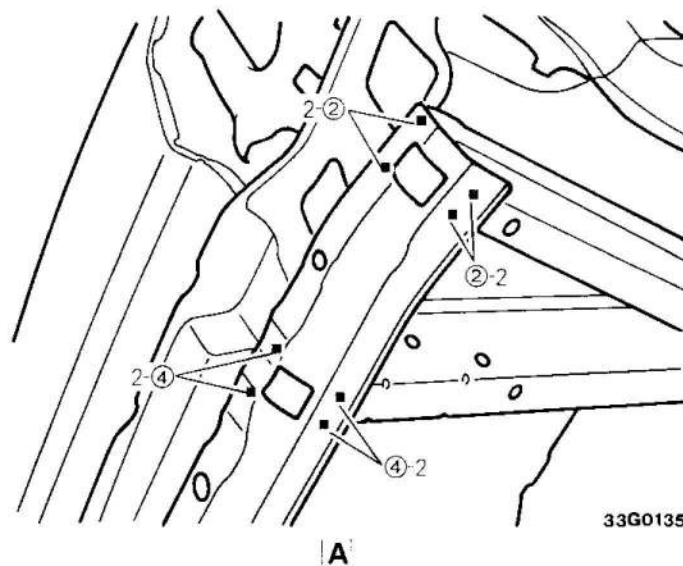
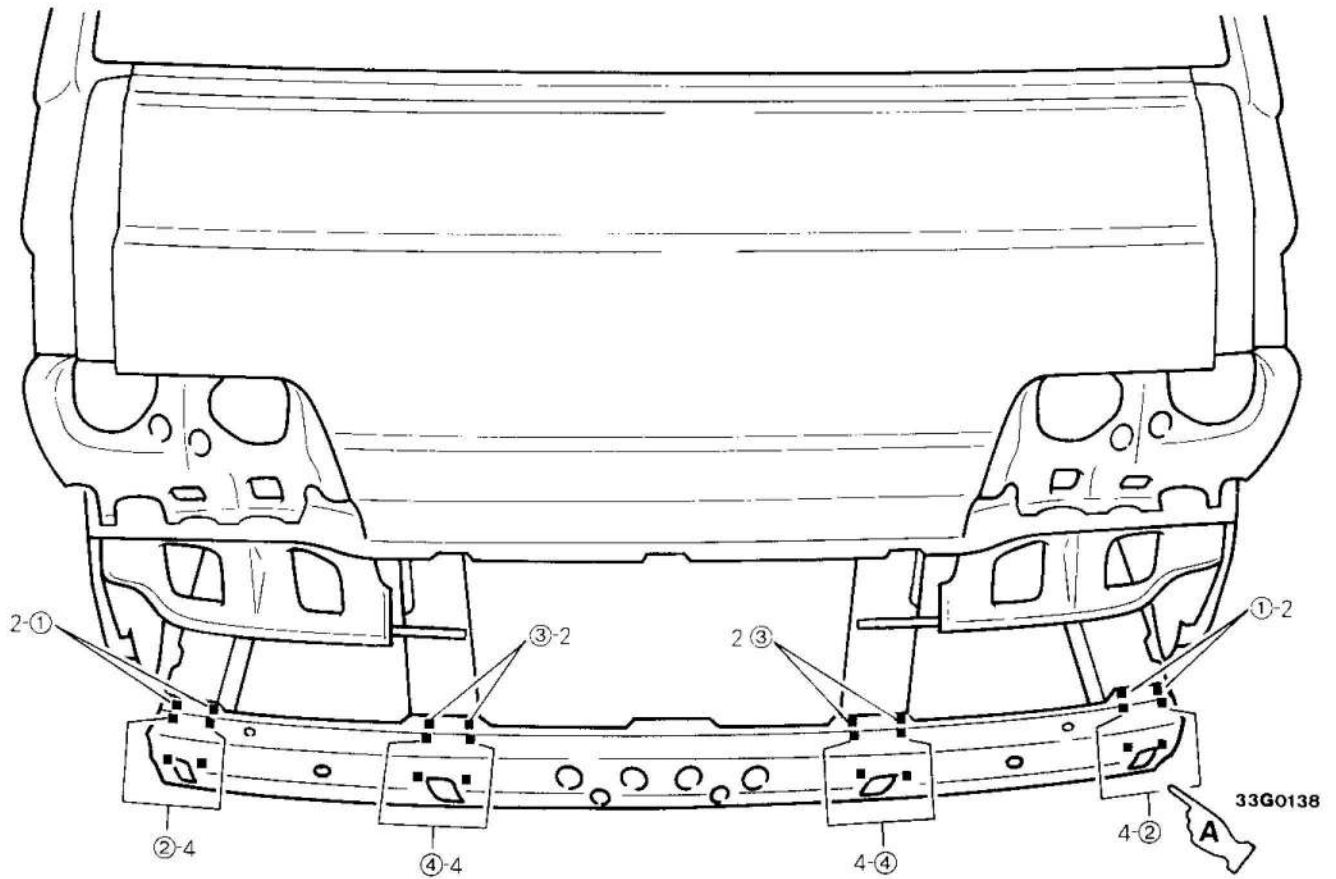
B



C

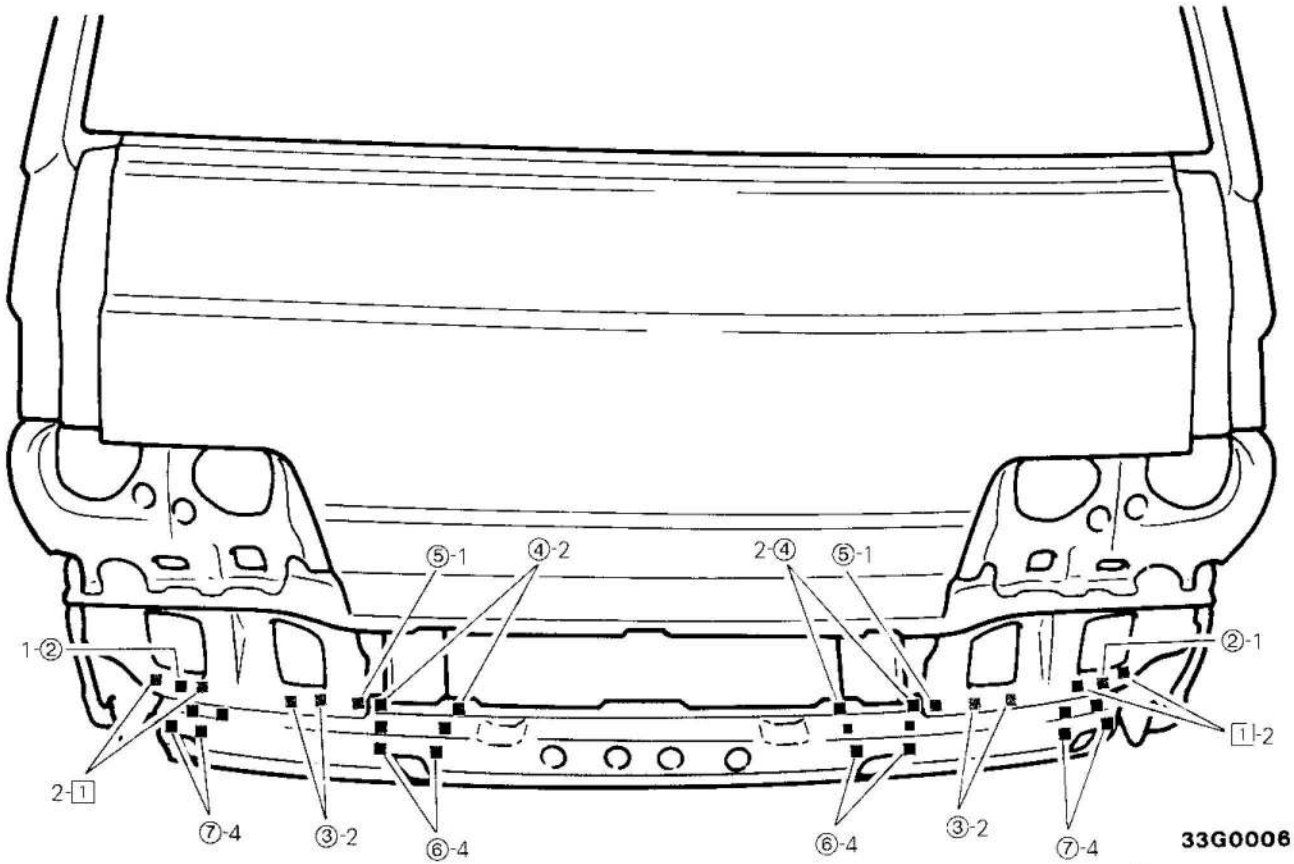


REPAIR WELDS

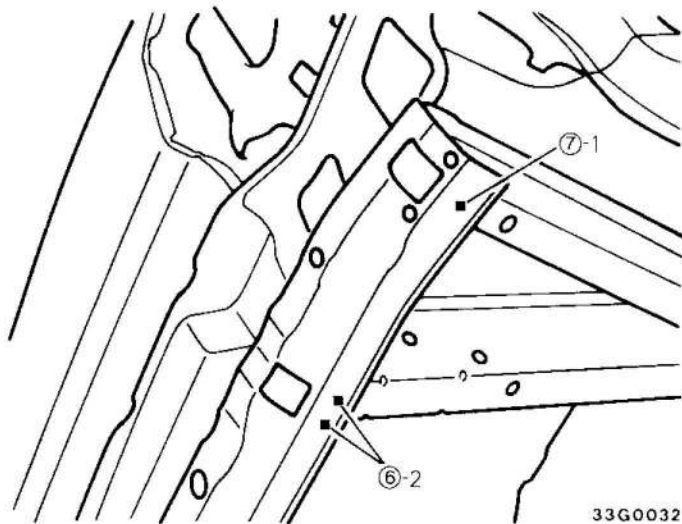




REPAIR WELDS



33G0006

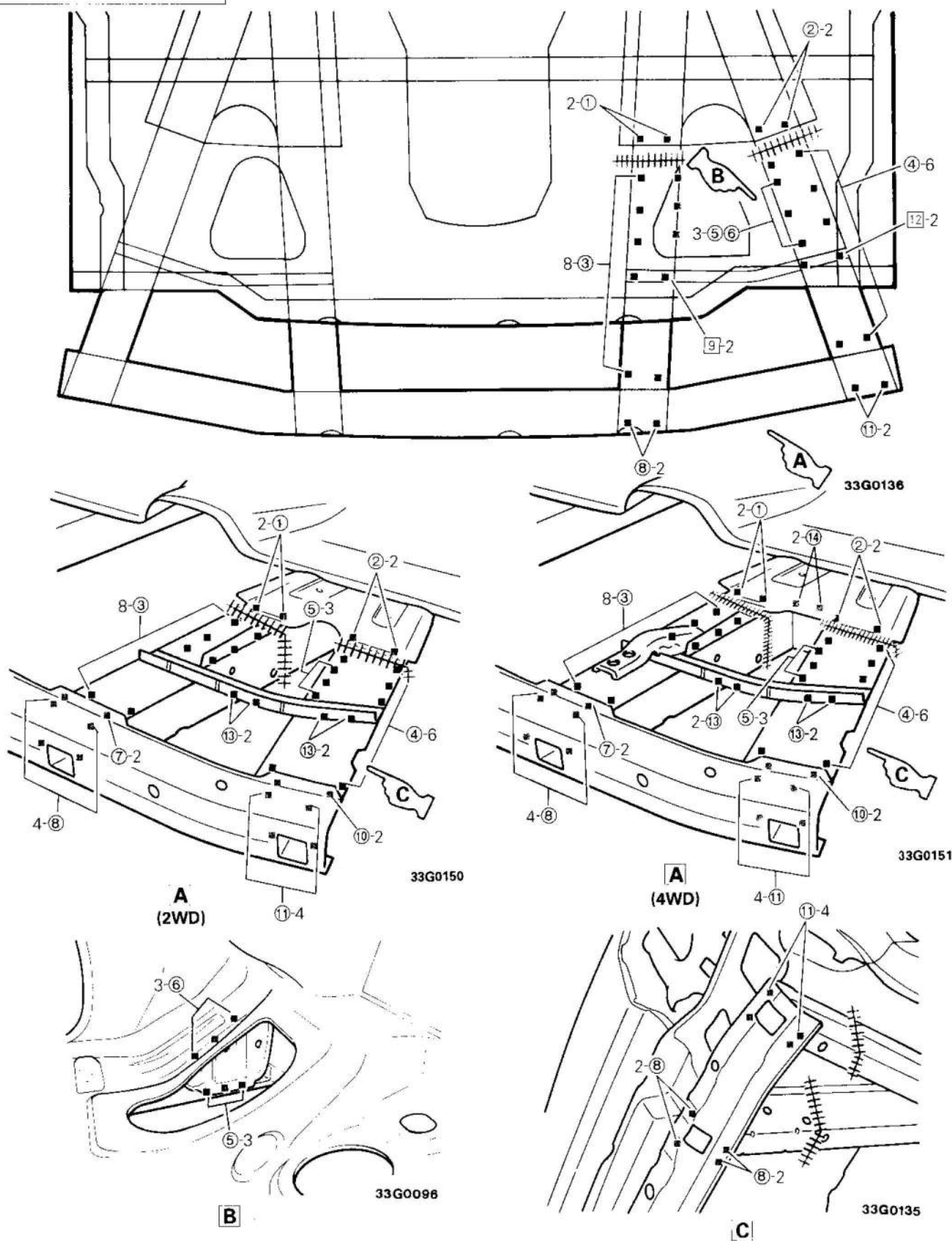


33G0032





REPAIR WELDS

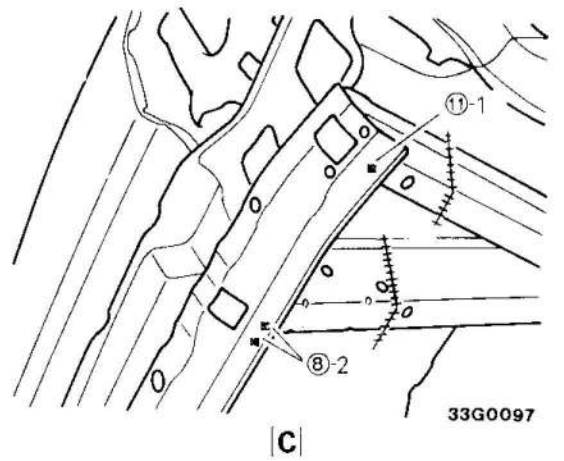
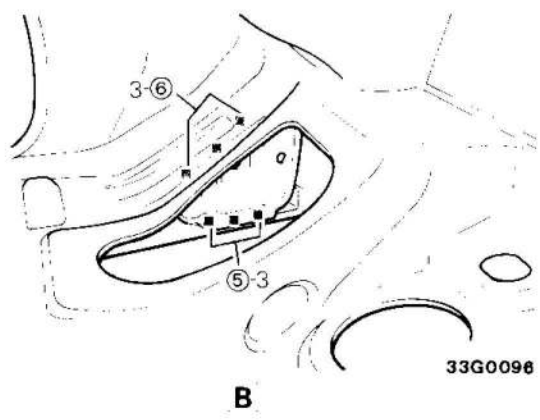
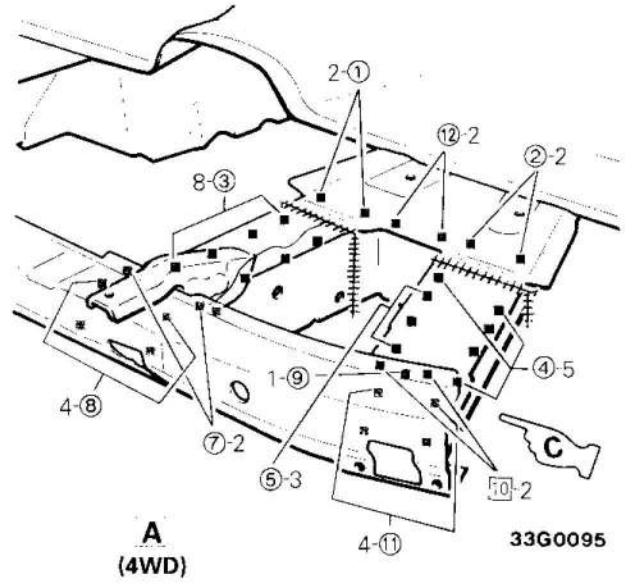
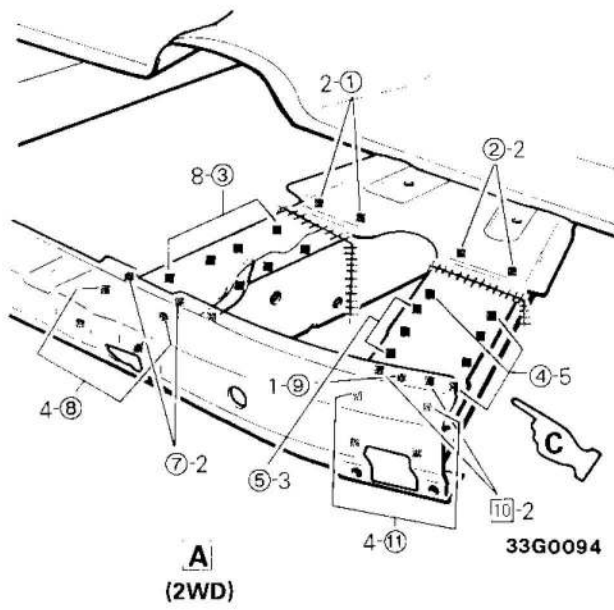
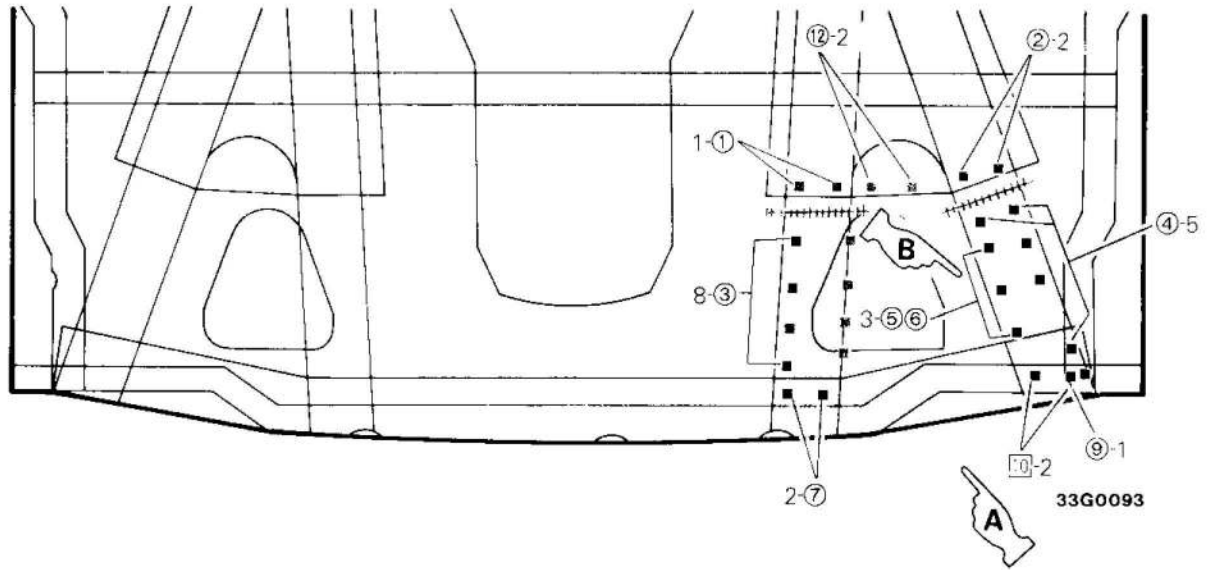


NOTE  
Figure [A] shows the front panel and front floor pan (A) in the removed condition.





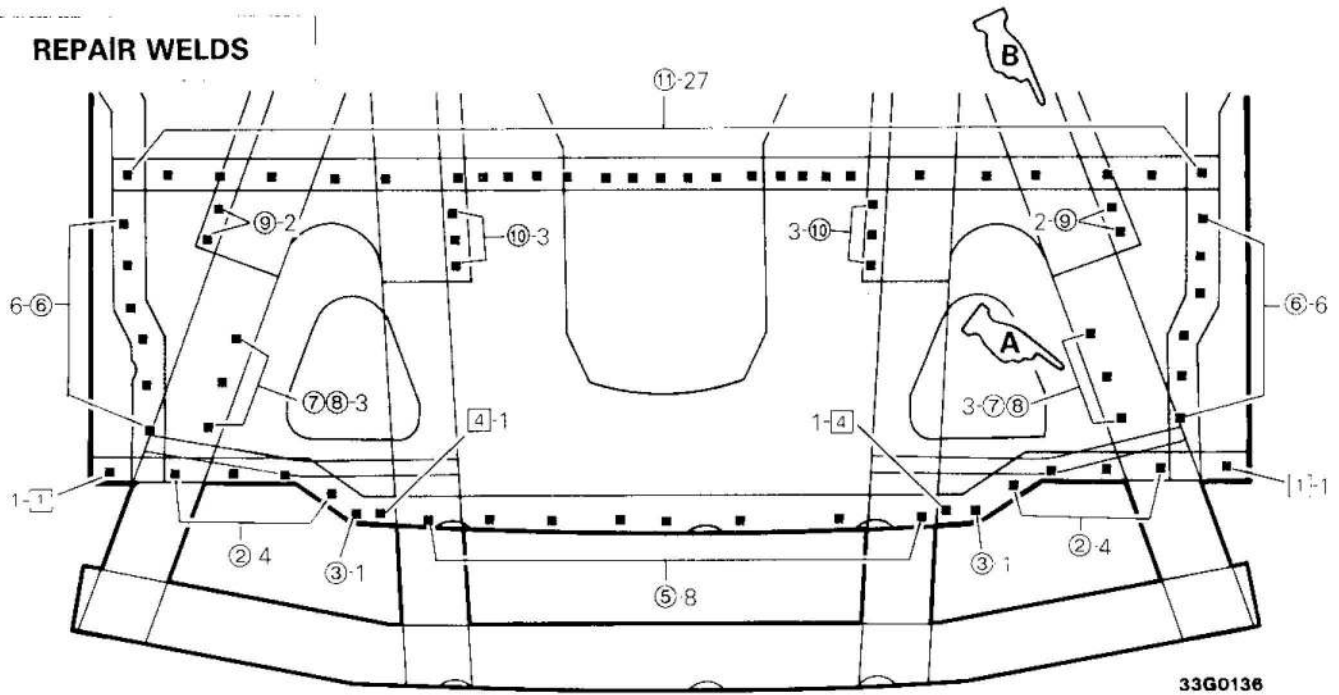
REPAIR WELDS



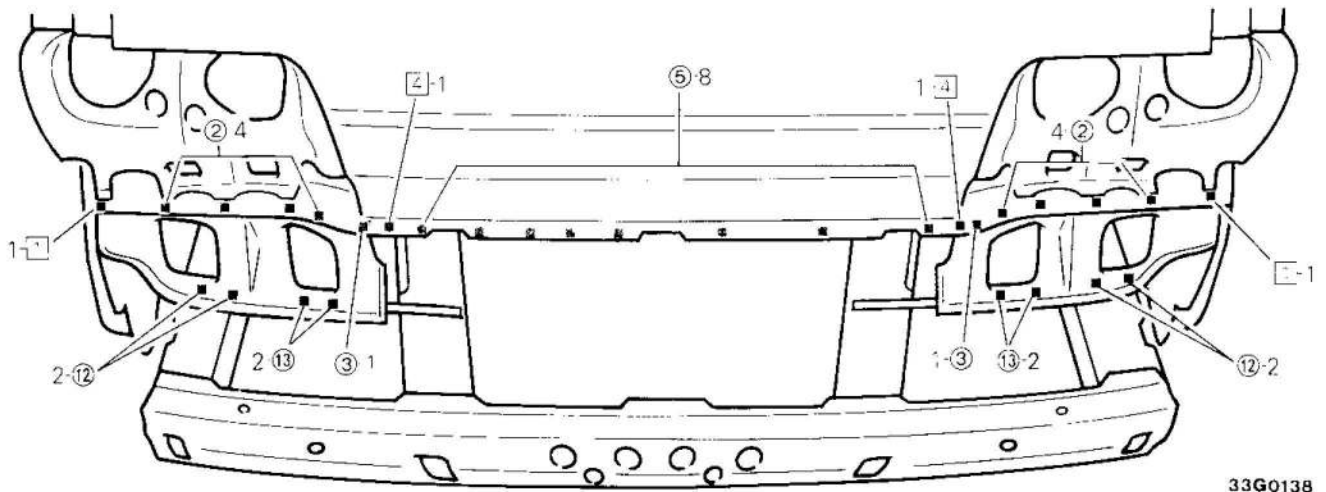
NOTE  
Figure **A** shows the front panel and front floor pan (A) in the removed condition.



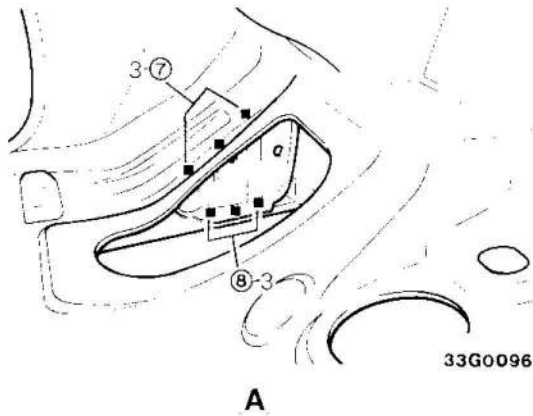
REPAIR WELDS



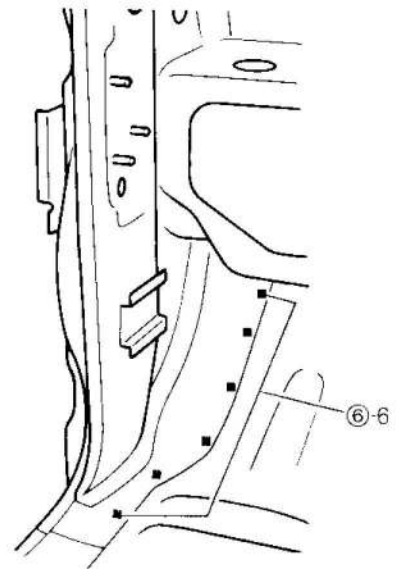
33G0136



33G0138



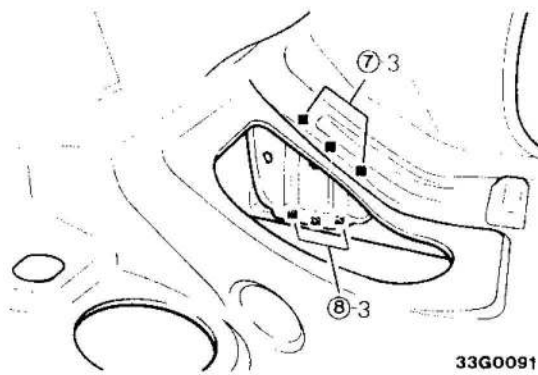
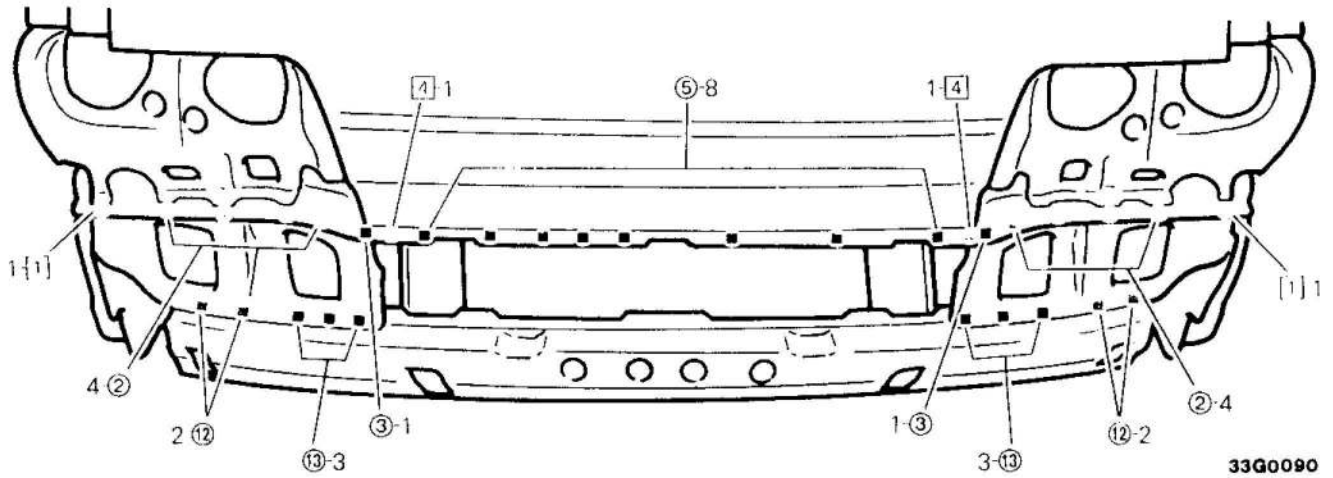
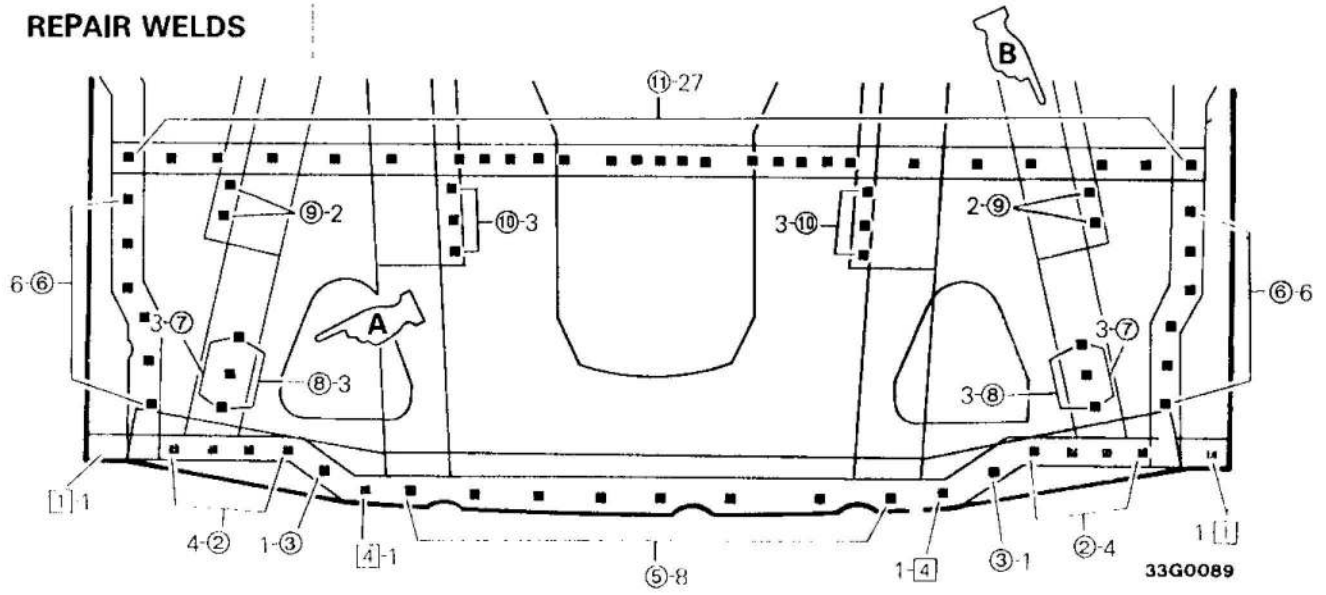
33G0096



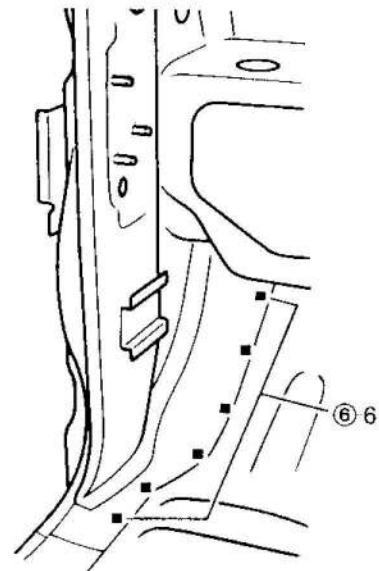
B 33G0092



REPAIR WELDS



A

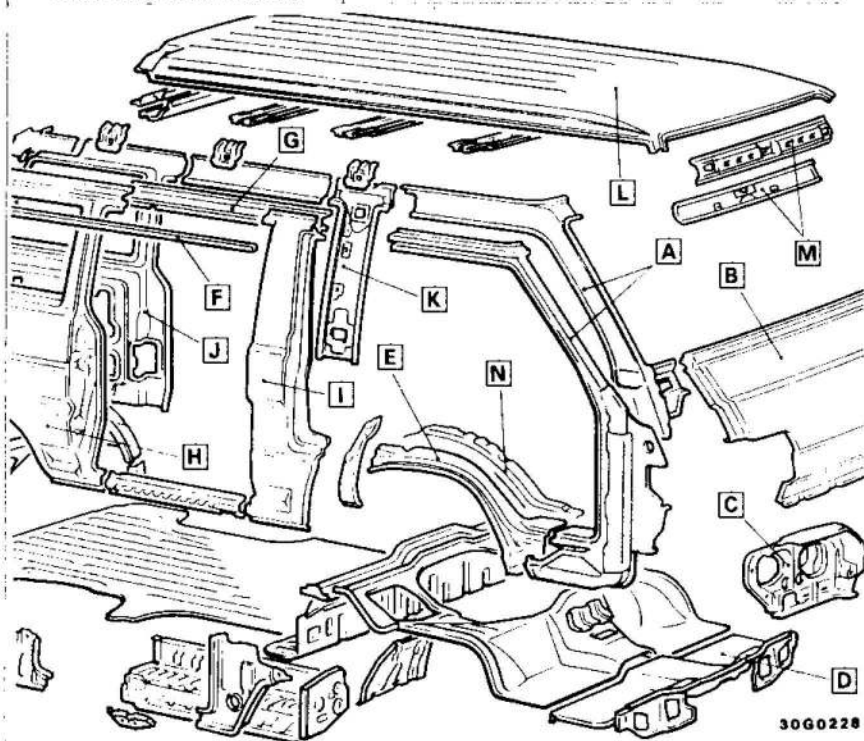


B

FRONT PILLAR

REPLACEMENT CONFIGURATION

CUT (A)



30G0228

PART NAME

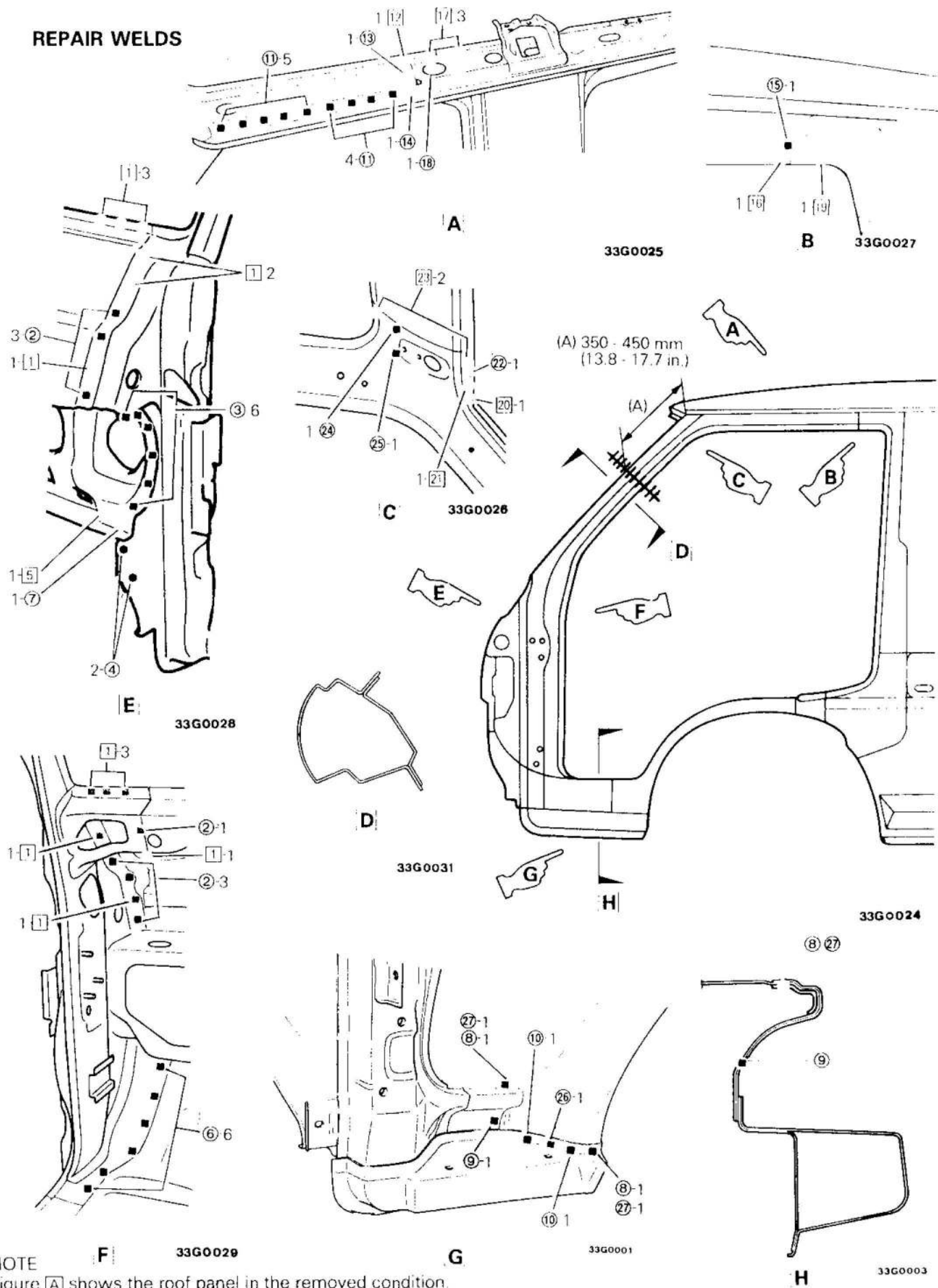
- A Front pillar assembly
- B Front panel
- C Headlamp housing
- D Front floor pan (A)
- E Front side sill, outer
- F Drip channel
- G Side roof rail, outer
- H Quarter panel, outer
- I B-pillar, outer
- J Quarter panel, inner
- K B-pillar, inner
- L Roof panel
- M Front roof rail
- N Front wheelhouse, inner

No.	Welded parts	F	R
1	A + B	7	Plug 7
2	A + B	4	Plug 4
3	A + C	6	Plug 6
4	A + D	2	2
5	A + C	1	Plug 1
6	A + D	6	Plug 6
7	A + C + D	1	Plug 1
8	A + E + N	2	Plug 2
9	A + E	1	Plug 1
10	A + E	2	Plug 2
11	A + F	9	Plug 9
12	A + G (H)	1	Plug 1
13	A + G (H)	1	Plug 1
14	A + F + I (H)	1	Plug 1
15	A + I (H) *	1	Plug 1
16	A + I (H)	1	Plug 1
17	A + G (H) + K (J)	3	Plug 3
18	A + K (J) *	1	Plug 1
19	A + I (H) + K (J)	1	Plug 1

No.	Welded parts	F	R
20	A + L	1	Plug 1
21	A + M	1	Plug 1
22	A + L + M	1	Plug 1
23	A + M	2	Plug 2
24	A + M *	1	Plug 1
25	A + M	1	Plug 1
26	A + E + N	1	Plug 1
27*	A + E	2	Plug 2

\* Standard body vehicles for General Export  
 NOTE The symbols in parentheses indicate vehicles with unified large quarter inner and outer panels (four door models).

REPAIR WELDS



NOTE Figure A shows the roof panel in the removed condition.

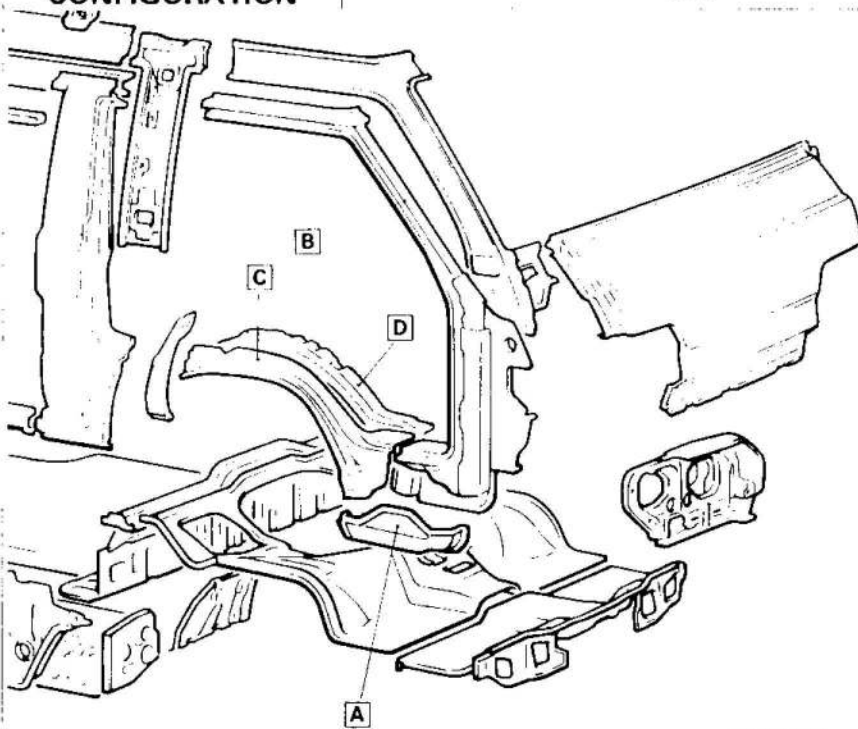
FRONT STEP PANEL

PART NAME

REPLACEMENT CONFIGURATION

ASSEMBLY (A)

- [A] Front step panel
- [B] Front pillar, outer
- [C] Front side sill, outer
- [D] Front wheelhouse, inner



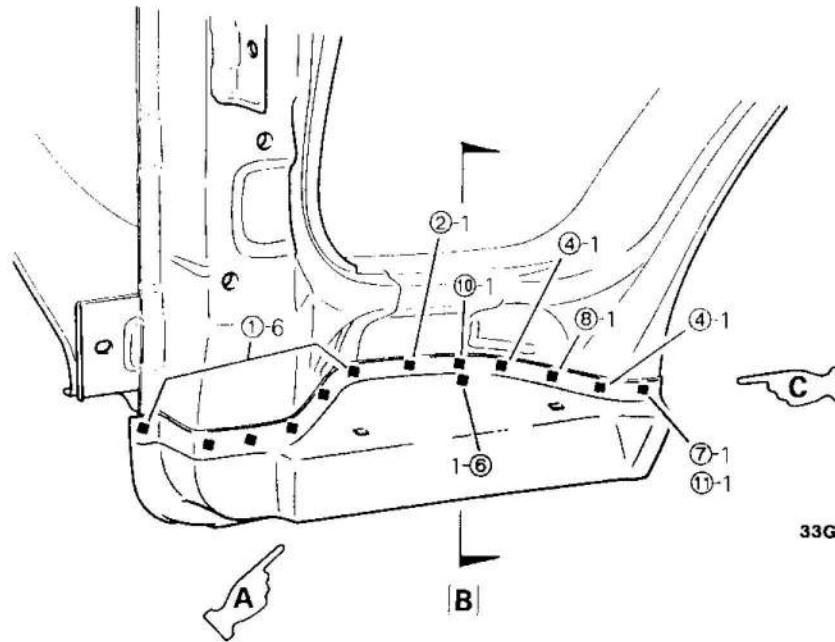
30G0233

No.	Welded parts	F	R	No.	Welded parts	F	R
①	[A] + [B]	6	Plug 6				
②	[A] + [B]	1	Plug 1				
③	[A] + [B]	6	6				
④	[A] + [B] + [C]	2	Plug 2				
⑤	[A] + [B]	1	Plug 1				
⑥	[A] + [B]	1	Plug 1				
⑦	[A] + [C] + [D]	1	Plug 1				
⑧	[A] + [C] + [D]	1	Plug 1				
⑨	[A] + [B]	2	Plug 2				
⑩	[A] + [B]	1	Plug 1				
⑪*	[A] + [C]	1	Plug 1				

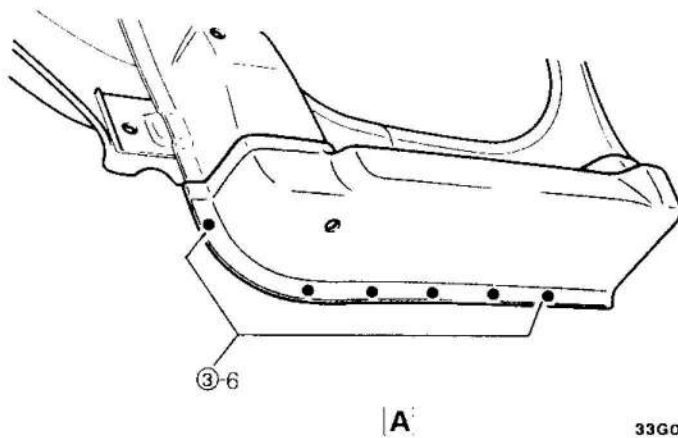
\* Standard body vehicles for General Export



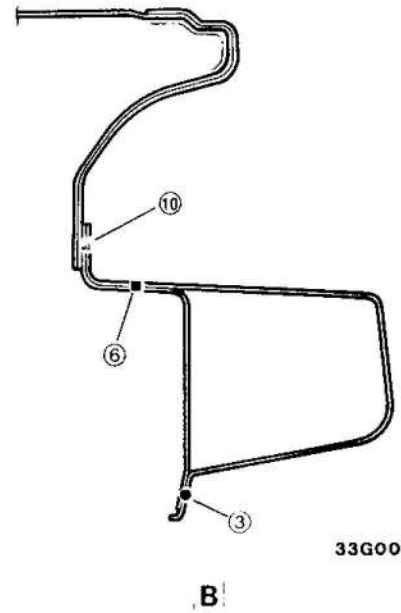
REPAIR WELDS



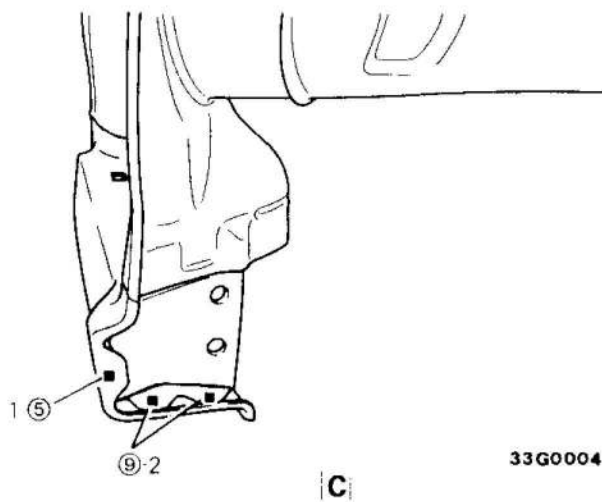
33G0001



33G0002



33G0003



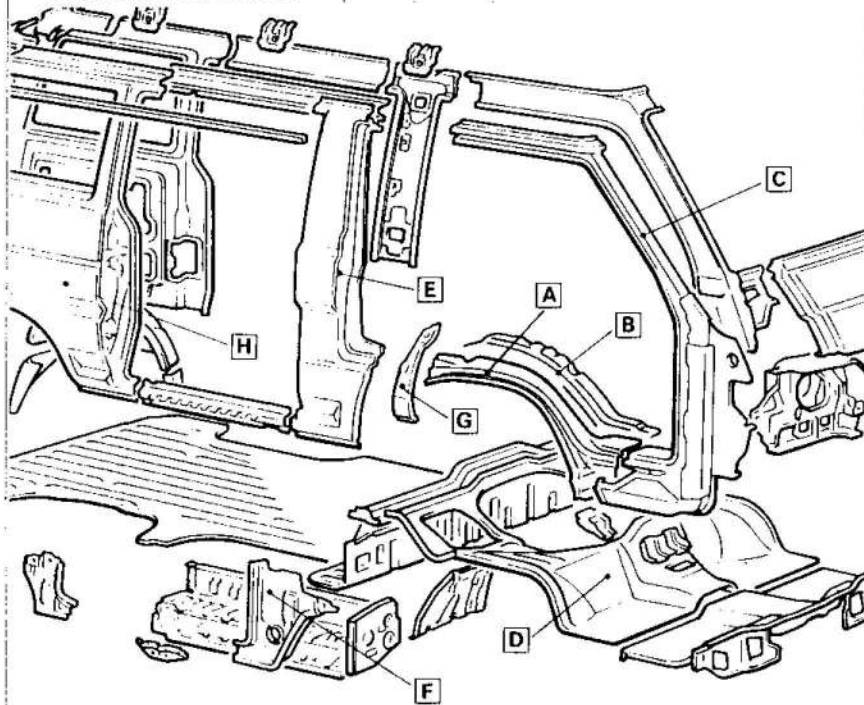
33G0004

**FRONT SIDE SILL  
REPLACEMENT  
CONFIGURATION**

(Vehicles for Europe and Australia,  
and Long Body Vehicles)

**ASSEMBLY (A B)**

**PART NAME**



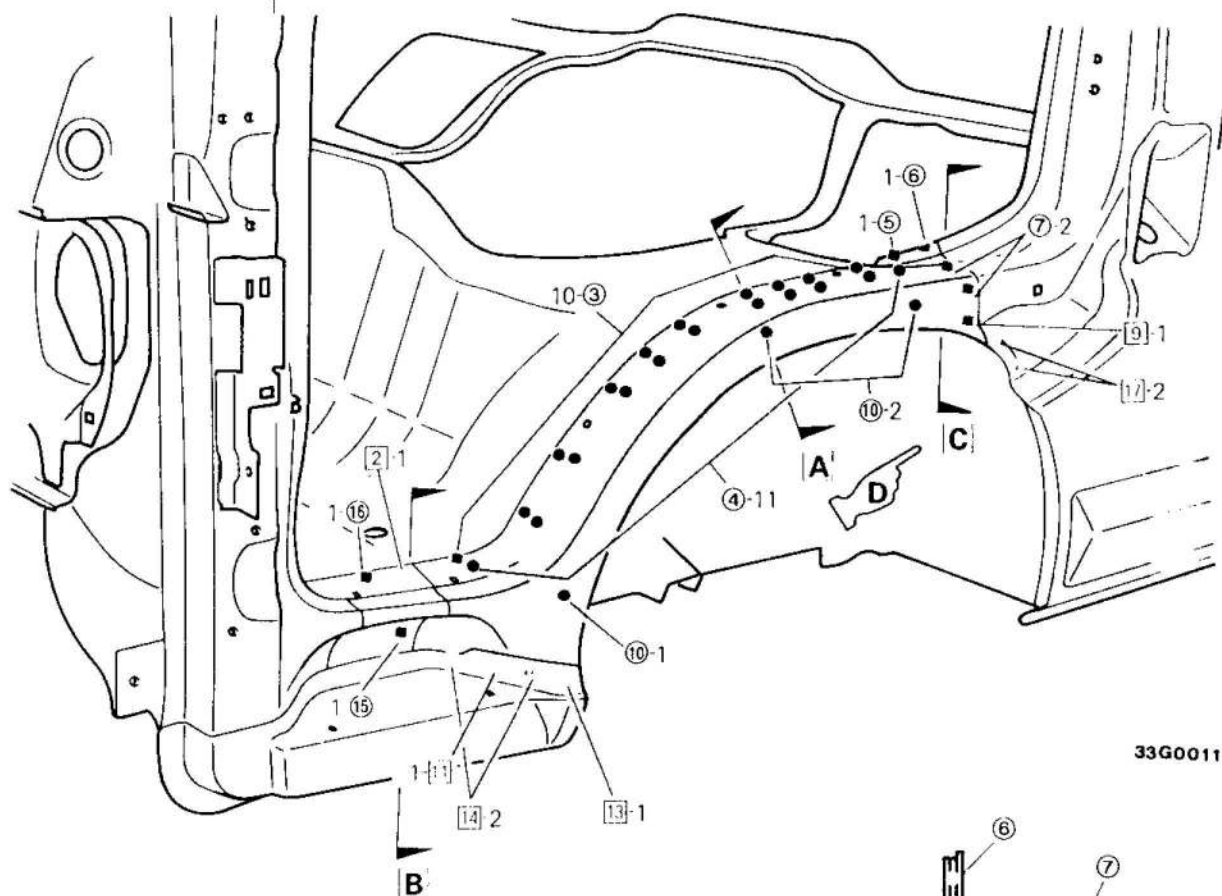
30G0228

- A** Front side sill, outer
- B** Front wheelhouse, inner
- C** Front pillar, outer
- D** Front floor pan (B)
- E** B-pillar, outer
- F** Centre pillar, inner, lower
- G** Splash shield
- H** Quarter panel, outer

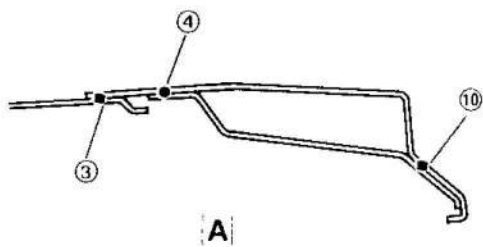
No.	Welded parts	F	R	No.	Welded parts	F	R
①	B + F	1	Plug 1				
②	A + B + C	1	Plug 1				
③	A + D	10	10				
④	A + B	11	11				
⑤	A + D	1	Plug 1				
⑥	A + E (H) + F	1	Plug 1				
⑦	A + E (H) + G	2	Plug 2				
⑧	B + F + G	1	Plug 1				
⑨	A + B (H) + E	1	Plug 1				
⑩	A + B	3	3				
⑪	A + B + C	1	Plug 1				
⑫	B + G	2	Plug 2				
⑬	A + B + C	1	Plug 1				
⑭	A + C	2	Plug 2				
⑮	A + C	1	Plug 1				
⑯	A + D	1	Plug 1				
⑰	B + E (H) + G	2	Plug 2				

NOTE The symbol in parenthesis indicates standard body vehicles with unified large quarter inner and outer panels (four door models).

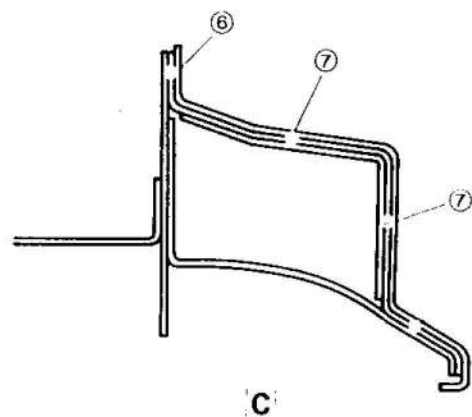
REPAIR WELDS



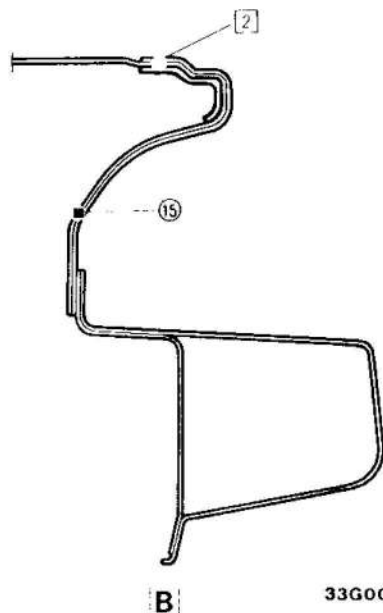
33G0011



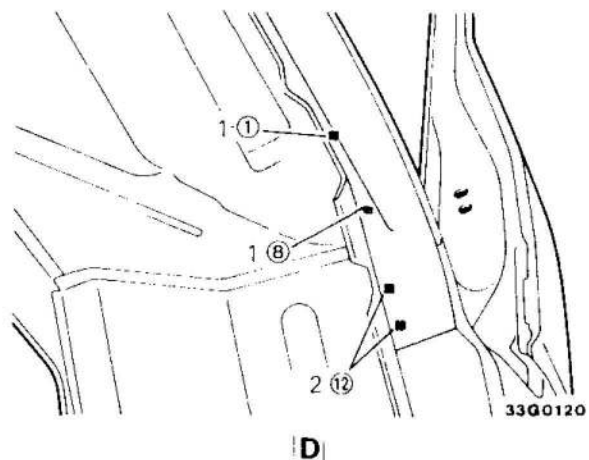
33G0012



[9]



33G0003

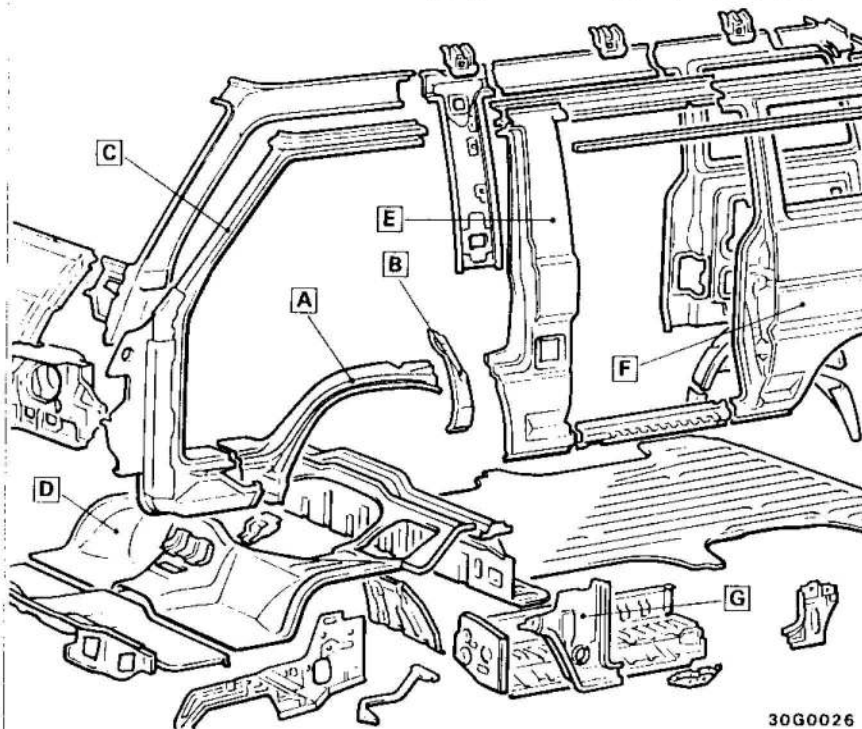


33G0120

**FRONT SIDE SILL (Standard Body Vehicles for General Export)**  
**REPLACEMENT CONFIGURATION**

**ASSEMBLY (A)**

**PART NAME**



- A** Front side sill, outer
- B** Splash shield
- C** Front pillar, outer
- D** Front floor pan (B)
- E** B-pillar, outer
- F** Quarter panel, outer
- G** Centre pillar, inner, lower

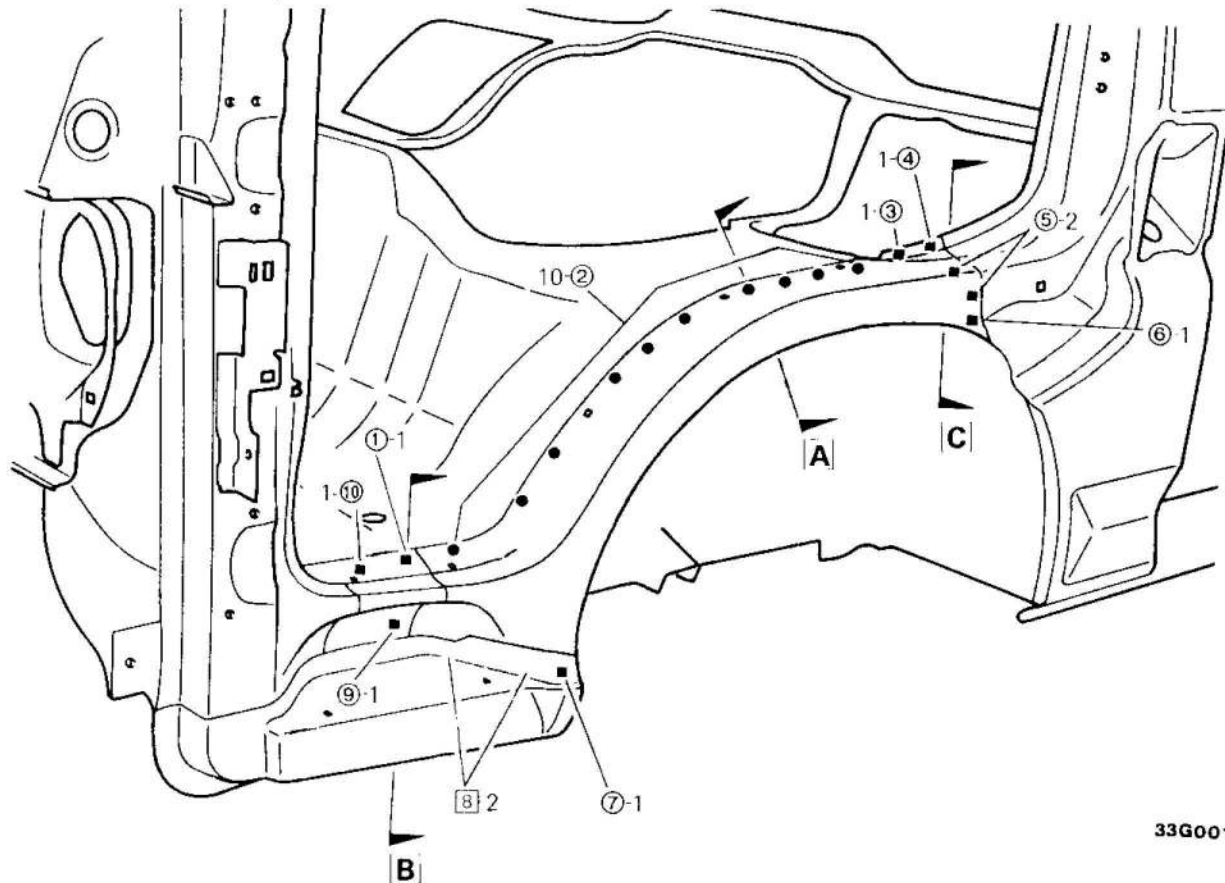
30G0026

No.	Welded parts	F	R
①	A + C	1	Plug 1
②	A + D	10	10
③	A + D	1	Plug 1
④	A + E (F) + G	1	Plug 1
⑤	A + B + E (F)	2	Plug 2
⑥	A + E (F)	1	Plug 1
⑦	A + C	1	Plug 1
⑧	A + C	2	Plug 2
⑨	A + C	1	Plug 1
⑩	A + D	1	Plug 1

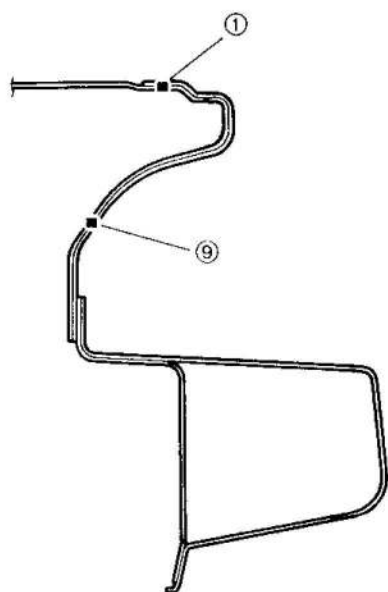
No.	Welded parts	F	R

NOTE The symbol in parenthesis indicates vehicles with unified large quarter inner and outer panels (four door models).

REPAIR WELDS

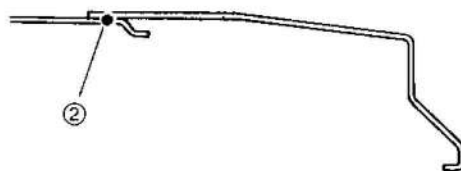


33G0011



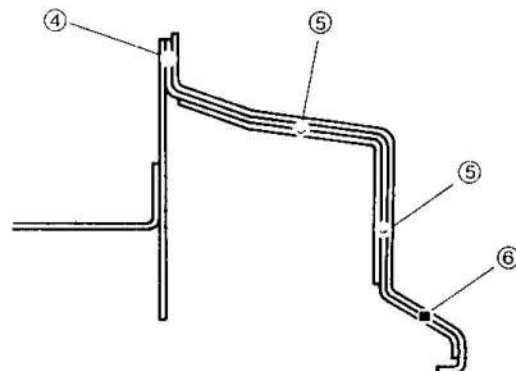
B

33G0003



A

33G0012

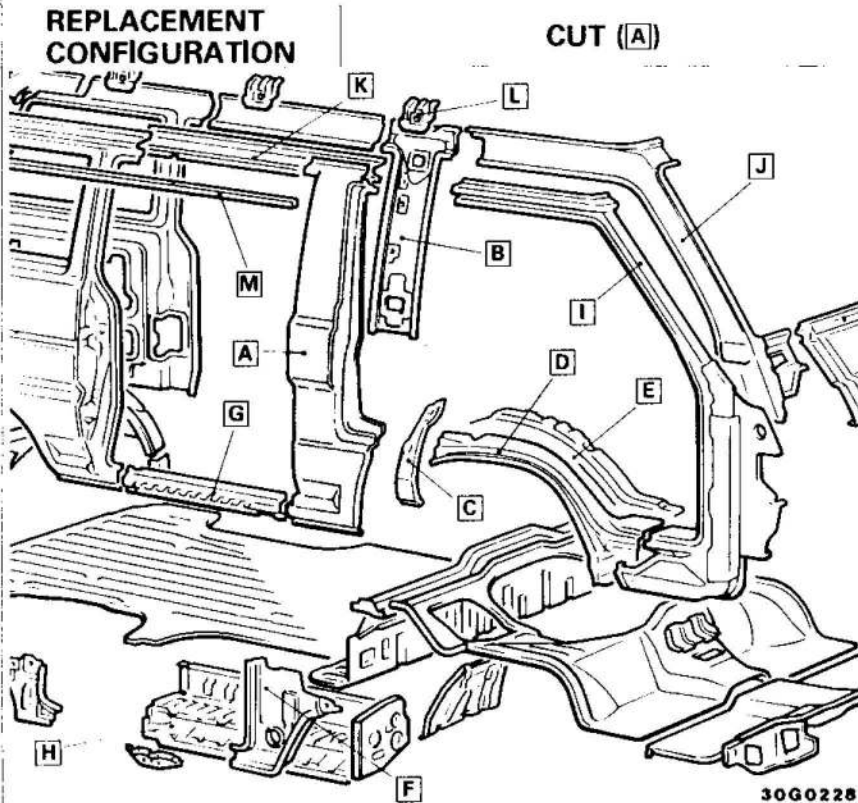


C

33G0013

**B-PILLAR, OUTER**

**PART NAME**



- A** B-pillar, outer
- B** B-pillar, inner
- C** Splash shield
- D** Front side sill, outer
- E** Front wheelhouse, inner
- F** Centre pillar, inner, lower
- G** Rear floor side sill, outer
- H** Rear side step
- I** Front pillar, outer
- J** Front pillar, inner, upper
- K** Side roof rail, outer
- L** Front roof bow bracket
- M** Drip channel

**No. Welded parts**

**F**

**R**

①	A + B	14	14
②	A + B + F	1	Plug 1
③	A + F	4	4
④	A + D + F	1	Plug 1
⑤	A + C + D	2	Plug 2
⑥	A + B	3	Plug 3
⑦	A + D + E	1	Plug 1
⑧	A + B + F	1	Plug 1
⑨	A + C + E	2	Plug 2
⑩	A + C	7	Plug 7
⑪	A + F	1	1
⑫	A + G	1	1
⑬	A + F + G	3	Plug 3
⑭	A + F + H	1	Plug 1
⑮	A + G	2	Plug 2
⑯	A + F	8	8
⑰	A + B + F	★	Plug 8
⑱	A + B	3	3
⑲	A + B	★	11
⑳	A + B + K	★	Plug 2
㉑	A + K	★	Plug 2

**No. Welded parts**

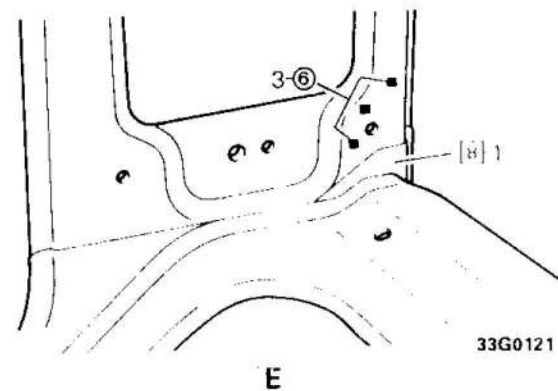
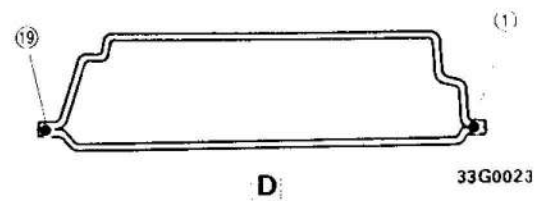
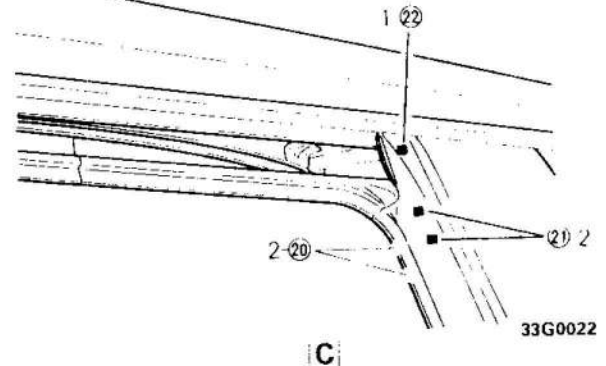
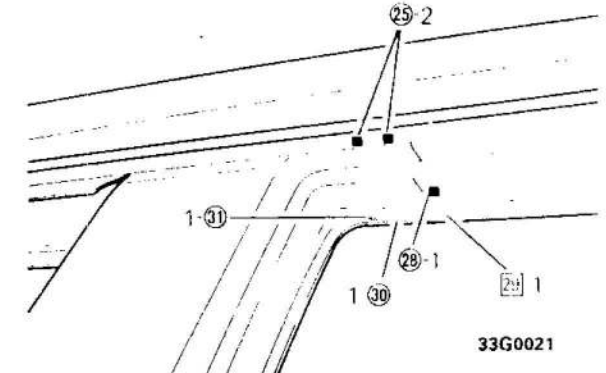
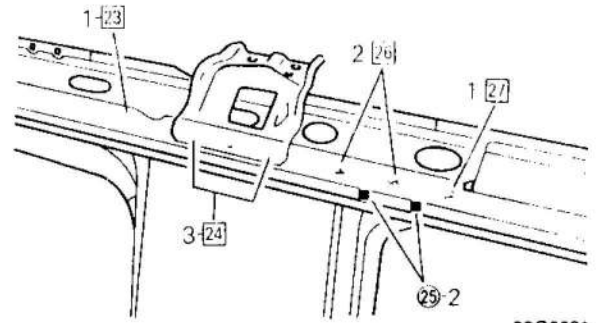
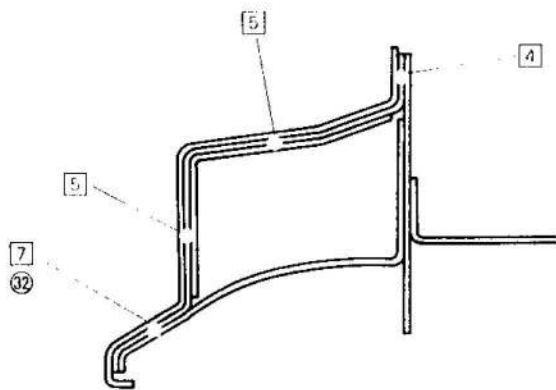
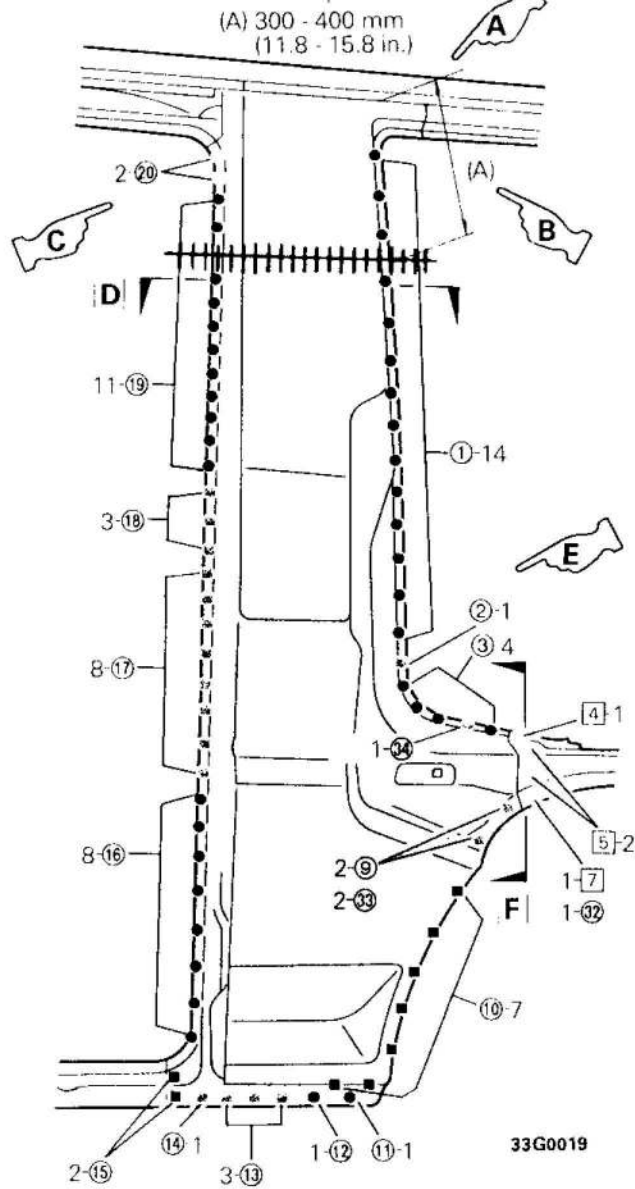
**F**

**R**

㉒	A + K	★	1	Plug 1
㉓	A + K + M		1	Plug 1
㉔	A + L + M		3	Plug 3
㉕	A + K	★	2	Plug 2
㉖	A + K + M		2	Plug 2
㉗	A + I + M		1	Plug 1
㉘	A + I	★	1	Plug 1
㉙	A + I + J		1	Plug 1
㉚	A + B + J		1	Plug 1
㉛	A + B + K		1	Plug 1
㉜*	A + D		1	Plug 1
㉝*	A + C		1	Plug 1
㉞	A + F		1	Plug 1

\* Standard body vehicles for General Export

REPAIR WELDS

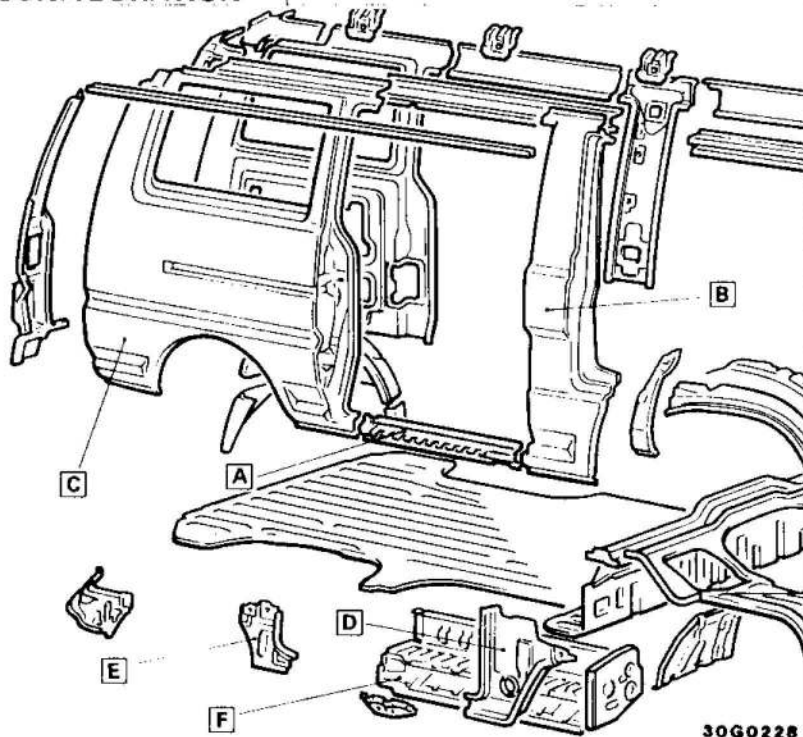


NOTE  
Figure [A] shows the roof panel in the removed condition.

REAR SIDE SILL

REPLACEMENT CONFIGURATION

ASSEMBLY (A)



PART NAME

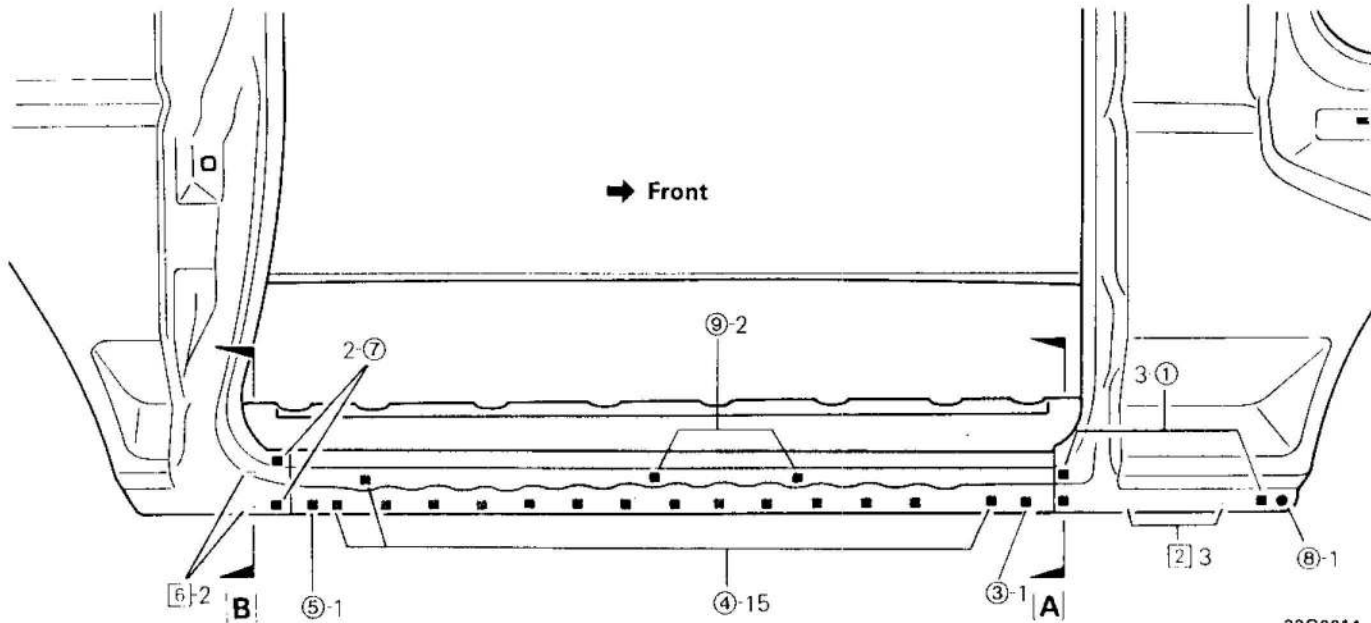
- A Rear floor side sill, outer
- B B-pillar, outer
- C Quarter panel, outer
- D Centre pillar, inner, lower
- E Quarter, inner, lower, front
- F Rear side step

No.	Welded parts	F	R	No.	Welded parts	F	R
①	A + B	3	Plug 3				
②	A + B + D	3	Plug 3				
③	A + D + F	1	Plug 1				
④	A + F	15	Plug 15				
⑤	A + E + F	1	Plug 1				
⑥	A + C	2	Plug 2				
⑦	A + C	2	Plug 2				
⑧	B + D	1	1				
⑨*	A + F	2	Plug 2				

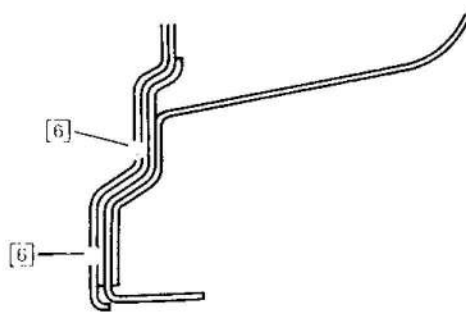
\* Long body vehicles



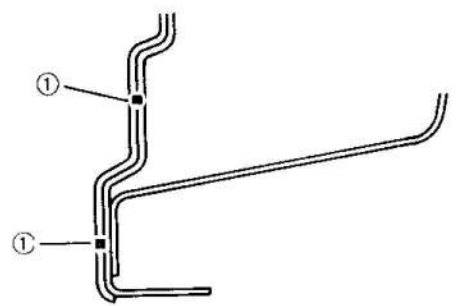
REPAIR WELDS



33G0014



B 33G0018



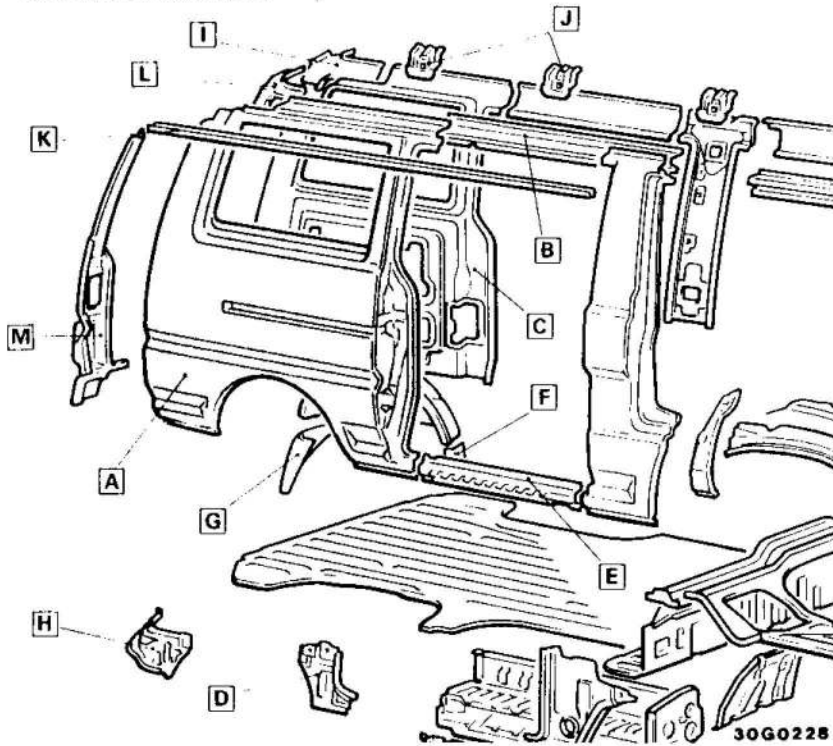
A 33G0017

QUARTER PANEL, OUTER (Standard Body Vehicles with Five Doors)

PART NAME

REPLACEMENT CONFIGURATION

CUT (A)



- [A] Quarter panel, outer
- [B] Side roof rail, outer
- [C] Quarter panel, inner
- [D] Quarter, inner, lower, front
- [E] Rear floor side sill, outer
- [F] Front wheelhouse, outer, lower
- [G] Rear wheelhouse, outer, lower
- [H] Quarter, inner, lower, rear
- [I] Rear roof rail inner extension
- [J] Rear roof bow bracket
- [K] Drip channel
- [L] Rear roof rail outer extension
- [M] Rear quarter outer extension

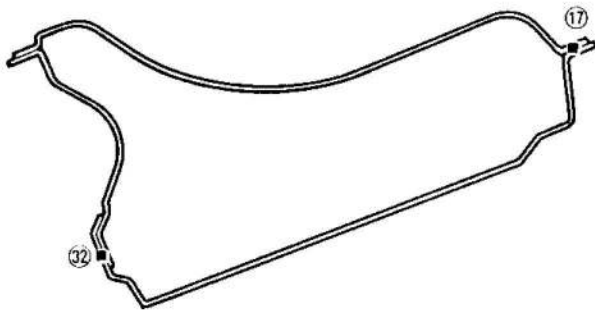
No.	Welded parts
1	[A] + [B] + [C]
2	[A] + [C]
3	[A] + [C] ★
4	[A] + [C]
5	[A] + [C] + [D]
6	[A] + [D]
7	[A] + [D]
8	[A] + [E]
9	[A] + [E]
10	[A] + [F]
11	[A] + [C] + [F]
12	[A] + [C]
13	[A] + [C] + [G]
14	[A] + [G]
15	[A] + [H]
16	[A] + [H] + [M]
17	[A] + [C]
18	[A] + [C] ★
19	[A] + [C] + [I] ★
20	[A] + [J] + [K]
21	[A] + [B] + [K]

F	R
1	Plug 1
5	Plug 5
14	Plug 14
3	3
2	Plug 2
1	1
6	Plug 6
2	Plug 2
2	Plug 2
5	Plug 5
1	Plug 1
11	Plug 11
1	Plug 1
5	Plug 5
3	3
5	Plug 5
28	28
13	Plug 13
11	Plug 11
3	Plug 3
1	Plug 1

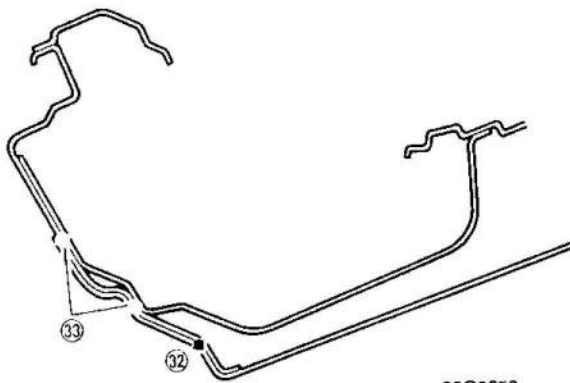
No.	Welded parts
22	[A] + [B]
23	[A] + [B] + [C]
24	[A] + [C] ★
25	[A] + [K]
26	[A] + [C] + [I] ★
27	[A] + [L]
28	[A] + [K] + [L]
29	[A] + [J]
30	[A] + [L]
31	[A] + [L] + [M]
32	[A] + [M] ★
33	[A] + [M]
34	[A] + [H] + [M]
35	[A] + [K]
36	[A] + [I] ★
37	[A] + [I] + [L] ★

F	R
1	Plug 1
1	Plug 1
8	8
9	Plug 9
1	Plug 1
6	Plug 6
4	Plug 4
2	Plug 2
1	Plug 1
1	Plug 1
18	Plug 18
3	Plug 3
1	Plug 1
2	Plug 2
2	Plug 2
1	Plug 1

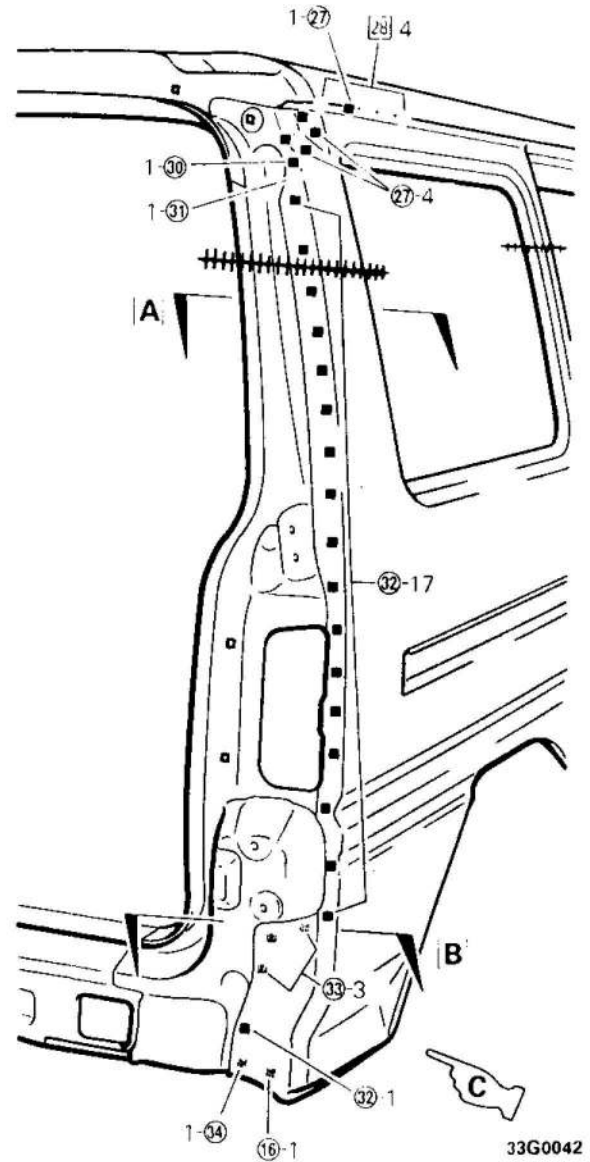
REPAIR WELDS



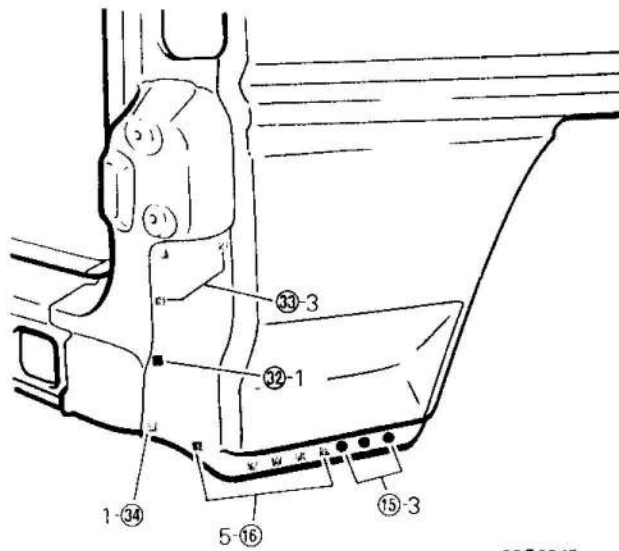
A 33G0052



B 33G0053



33G0042



33G0045

C

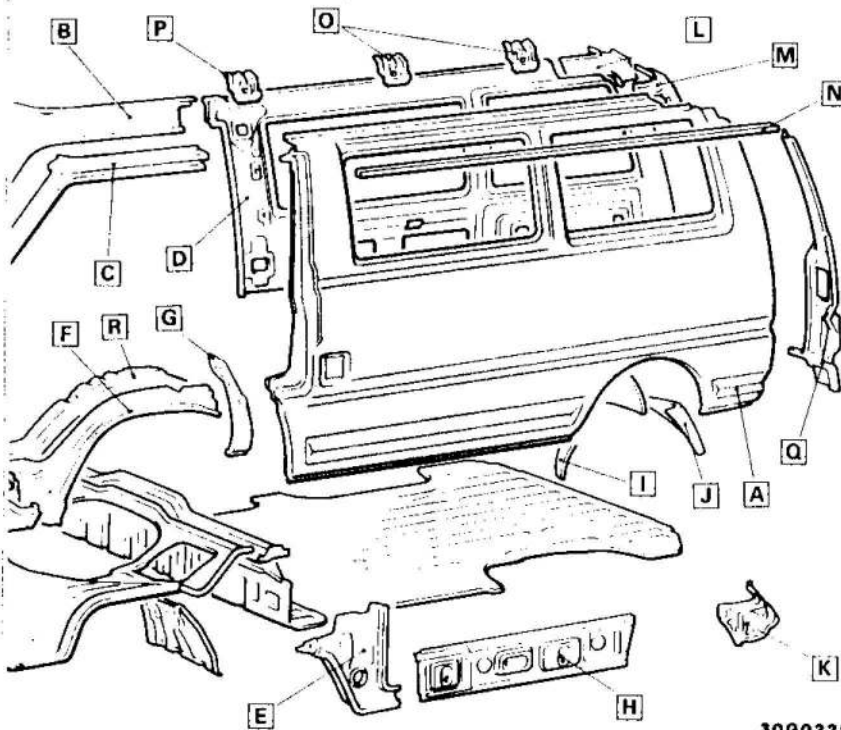
NOTE  
For weld points, refer to the fold-out (appendix 1) at the end of this group.

QUARTER PANEL, OUTER (Standard Body Vehicles with Four Doors)

PART NAME

REPLACEMENT CONFIGURATION

CUT (A)



- [A] Quarter panel, outer
- [B] Front pillar, inner, upper
- [C] Front pillar, outer
- [D] Quarter panel, inner
- [E] Centre pillar, inner, lower
- [F] Front side sill, outer
- [G] Splash shield
- [H] Quarter, inner, lower, front
- [I] Front wheelhouse, outer, lower
- [J] Rear wheelhouse, outer, lower
- [K] Quarter, inner, lower, rear
- [L] Rear roof rail inner extension
- [M] Rear roof rail outer extension
- [N] Drip channel
- [O] Rear roof bow bracket
- [P] Front roof bow bracket
- [Q] Rear quarter outer extension
- [R] Front wheelhouse, inner

30G0225

No. Welded parts

- ① [A] + [B] + [C]
- ② [A] + [B] + [D]
- ③ [A] + [D]
- ④ [A] + [D] + [E]
- ⑤ [A] + [E]
- ⑥ [A] + [E] + [F]
- ⑦ [A] + [F] + [G]
- ⑧ [A] + [F] + [R]
- ⑨ [A] + [G]
- ⑩ [A] + [E]
- ⑪ [A] + [D]
- ⑫ [A] + [E] + [H]
- ⑬ [A] + [H]
- ⑭ [A] + [D] + [H]
- ⑮ [A] + [I]
- ⑯ [A] + [D] + [I]
- ⑰ [A] + [D]
- ⑱ [A] + [D] + [J]
- ⑲ [A] + [J]
- ⑳ [A] + [K]
- ㉑ [A] + [K] + [Q]

F

- 2
- 4
- 76
- 1
- 5
- 1
- 2
- 1
- 7
- 3
- 1
- 2
- 16
- 2
- 5
- 1
- 11
- 1
- 5
- 3
- 5

R

- Plug 2
- Plug 4
- 76
- Plug 1
- 5
- Plug 1
- Plug 2
- Plug 1
- Plug 7
- Plug 3
- Plug 1
- Plug 2
- 16
- Plug 2
- Plug 5
- Plug 1
- Plug 11
- Plug 1
- Plug 5
- 3
- Plug 5

No.

- ㉒
- ㉓
- ㉔
- ㉕
- ㉖
- ㉗
- ㉘
- ㉙
- ㉚
- ㉛
- ㉜
- ㉝
- ㉞
- ㉟
- ㊱
- ㊲
- ㊳
- ㊴
- ㊵
- ㊶
- ㊷
- ㊸
- ㊹
- ㊺

Welded parts

- [A] + [D] ★
- [A] + [D] ★
- [A] + [D] + [L] ★
- [A] + [M]
- [A] + [M] + [N]
- [A] + [M]
- [A] + [L] + [M] ★
- [A] + [L] ★
- [A] + [N] + [O]
- [A] + [N]
- [A] + [N]
- [A] + [C]
- [A] + [C] + [N]
- [A] + [C] ★
- [A] + [N] + [P]
- [A] + [P]
- [A] + [O]
- [A] + [M]
- [A] + [M] + [Q]
- [A] + [Q] ★
- [A] + [Q]

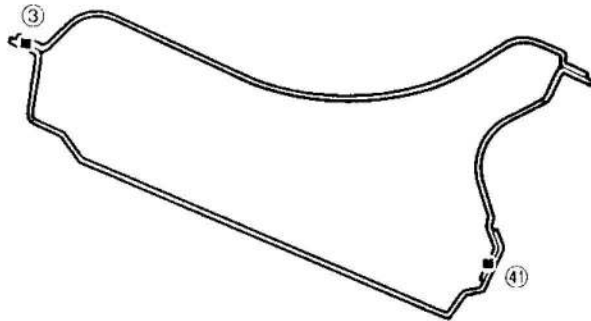
F

- 9
- 17
- 11
- 5
- 4
- 1
- 1
- 2
- 6
- 18
- 5
- 1
- 1
- 1
- 3
- 2
- 4
- 1
- 1
- 18
- 3

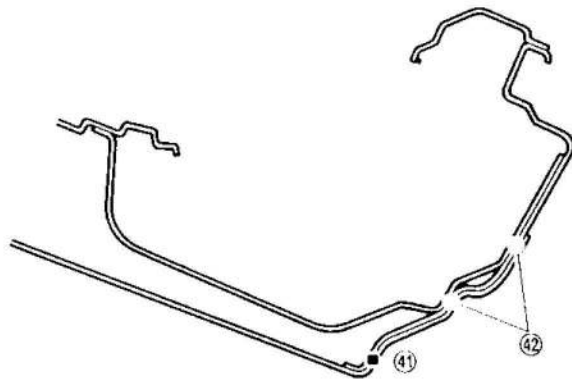
R

- Plug 9
- 17
- Plug 11
- Plug 5
- Plug 4
- Plug 1
- Plug 1
- Plug 2
- Plug 6
- Plug 18
- Plug 5
- Plug 1
- Plug 1
- Plug 1
- Plug 3
- Plug 2
- Plug 4
- Plug 1
- Plug 1
- Plug 18
- Plug 3

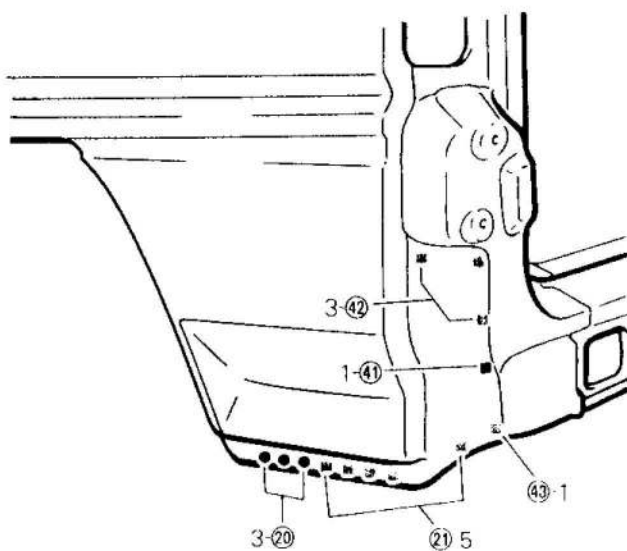
REPAIR WELDS



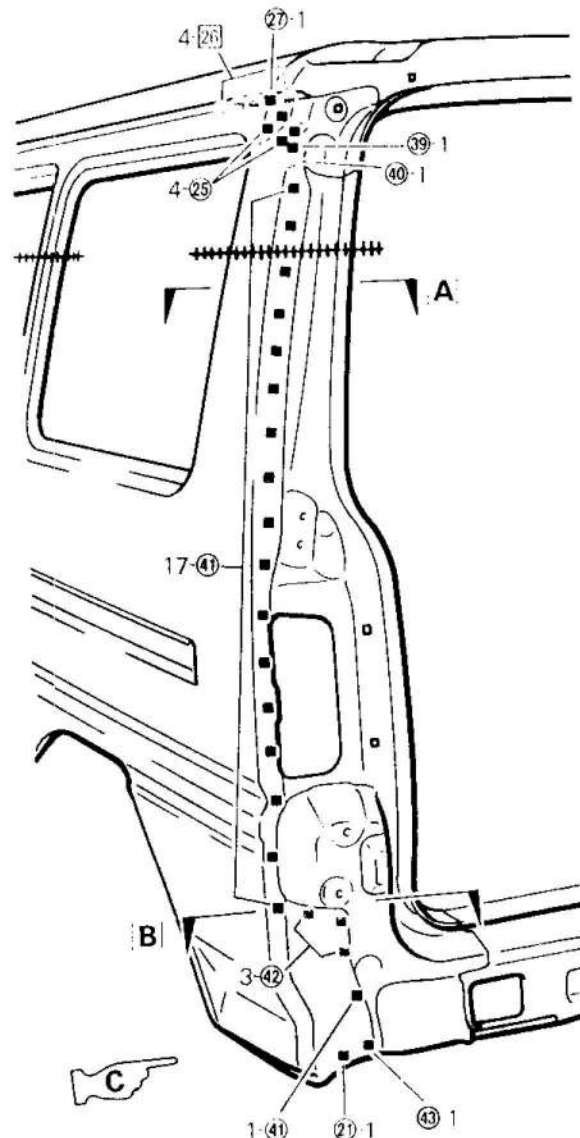
A 33G0052



B 33G0053



C 33G0045



33G0042

No.	Welded parts	F	R
④3	A + K + Q	1	Plug 1
④4	A + E	1	Plug 1
④5	A + D	★	Plug 1
④6	A + D	★	Plug 34
④7	A + G + R	2	Plug 2
④8*	A + F	1	Plug 1
④9*	A + G	2	Plug 2

\* Standard body vehicles for General Export

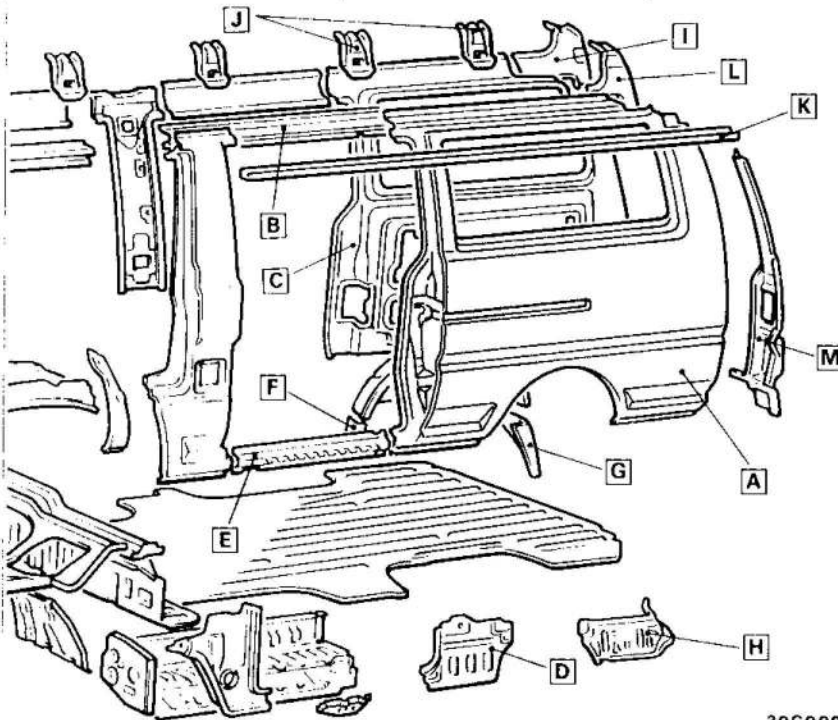
NOTE  
For weld points, refer to the fold-out (appendix 2) at the end of this group.

QUARTER PANEL, OUTER (Long Body Vehicles)

PART NAME

REPLACEMENT CONFIGURATION

CUT (A)



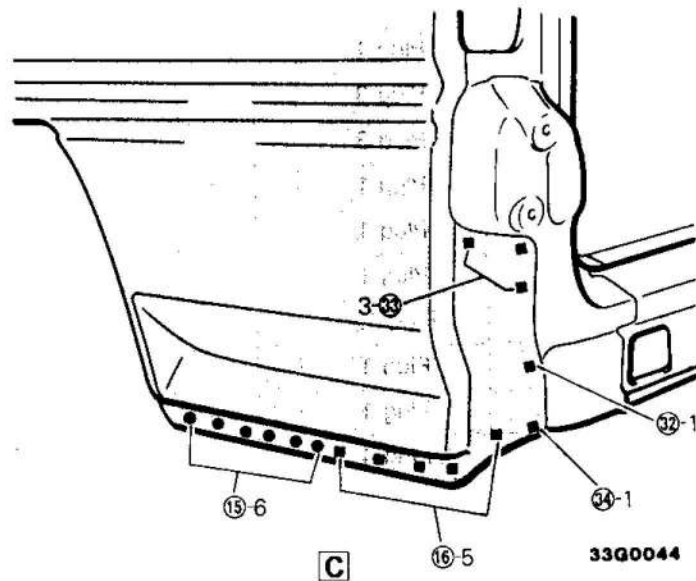
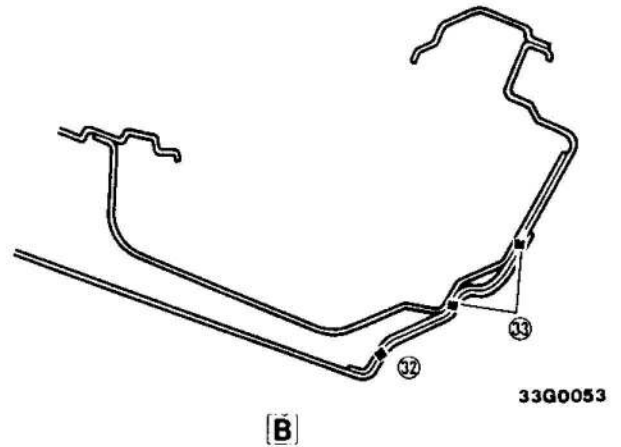
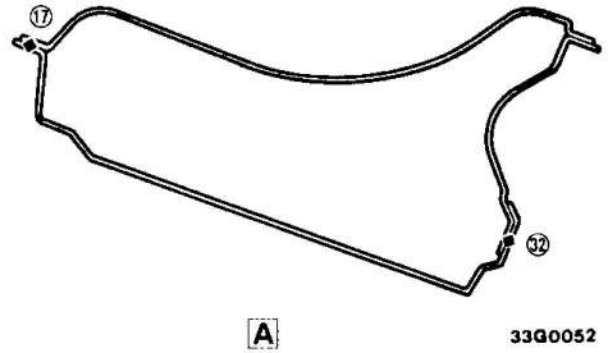
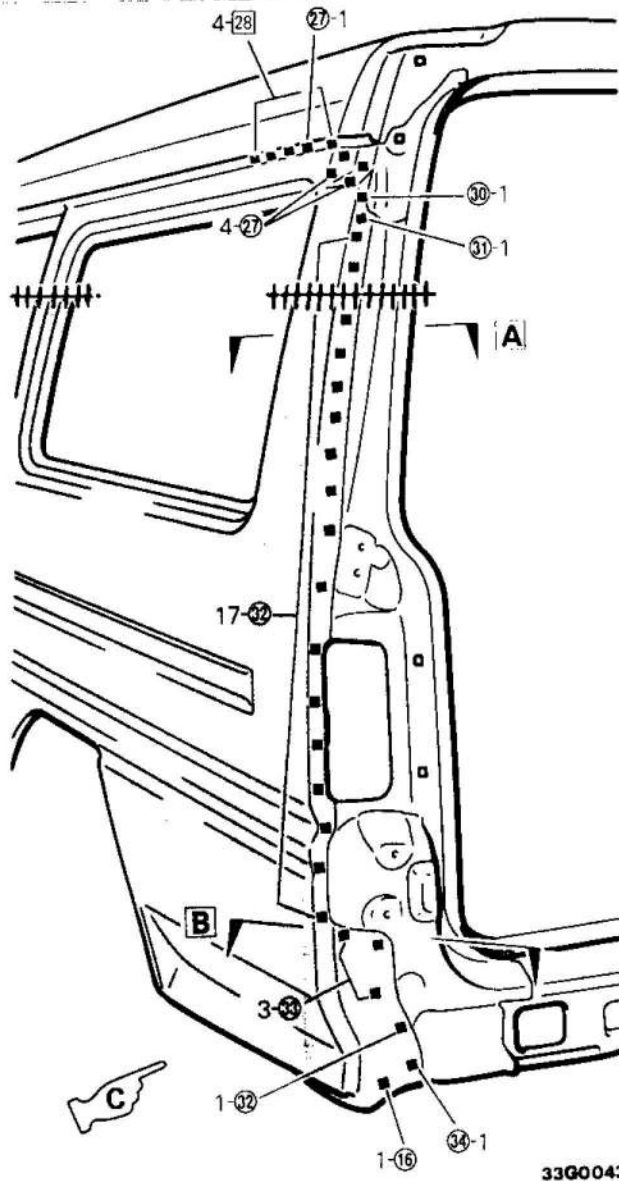
- A** Quarter panel, outer
- B** Side roof rail, outer
- C** Quarter panel, inner
- D** Quarter, inner, lower, front
- E** Rear floor side sill, outer
- F** Front wheelhouse, outer, lower
- G** Rear wheelhouse, outer, lower
- H** Quarter, inner, lower, rear
- I** Rear roof rail inner extension
- J** Rear roof bow bracket
- K** Drip channel
- L** Rear roof rail outer extension
- M** Rear quarter outer extension

30G0092

No.	Welded parts	F	R
1	A + B + C	1	Plug 1
2	A + C	5	Plug 5
3	A + C	14	Plug 14
4	A + C	3	3
5	A + C + D	2	Plug 2
6	A + D	4	4
7	A + D	6	Plug 6
8	A + E	2	Plug 2
9	A + E	2	Plug 2
10	A + F	5	Plug 5
11	A + C + F	1	Plug 1
12	A + C	11	Plug 11
13	A + C + G	1	Plug 1
14	A + G	5	Plug 5
15	A + H	6	6
16	A + H + M	5	Plug 5
17	A + C	38	38
18	A + K	2	Plug 2
19	A + C + I	6	Plug 6
20	A + J + K	6	Plug 6
21	A + B + K	1	Plug 1

No.	Welded parts	F	R
22	A + B	1	Plug 1
23	A + B + C	1	Plug 1
24	A + C	16	Plug 16
25	A + K	11	Plug 11
26	A + C + L	1	Plug 1
27	A + L	6	Plug 6
28	A + K + L	4	Plug 4
29	A + J	4	Plug 4
30	A + L	1	Plug 1
31	A + L + M	1	Plug 1
32	A + M	18	Plug 18
33	A + M	3	Plug 3
34	A + H + M	1	Plug 1

REPAIR WELDS

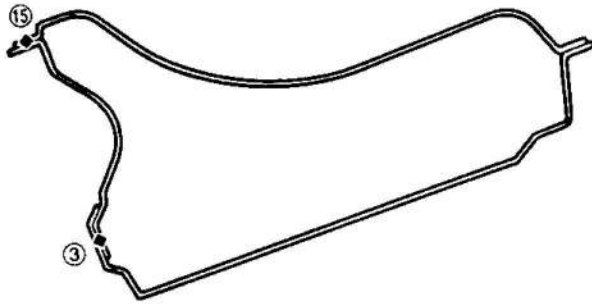


NOTE  
For weld points, refer to the fold-out (appendix 3) at the end of this group.



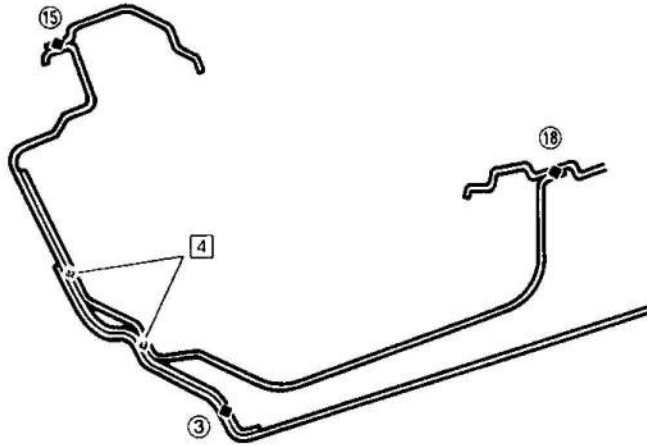


REPAIR WELDS



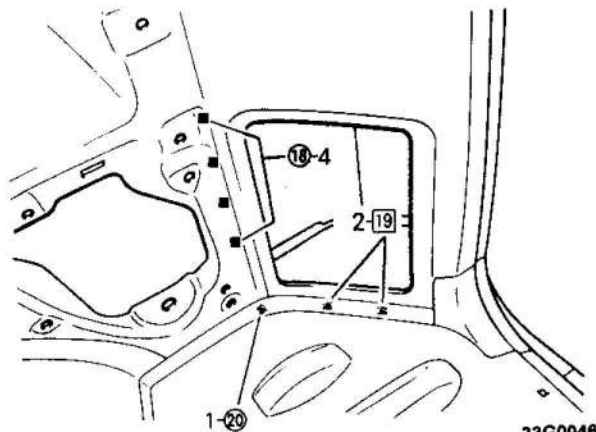
A

33G0055



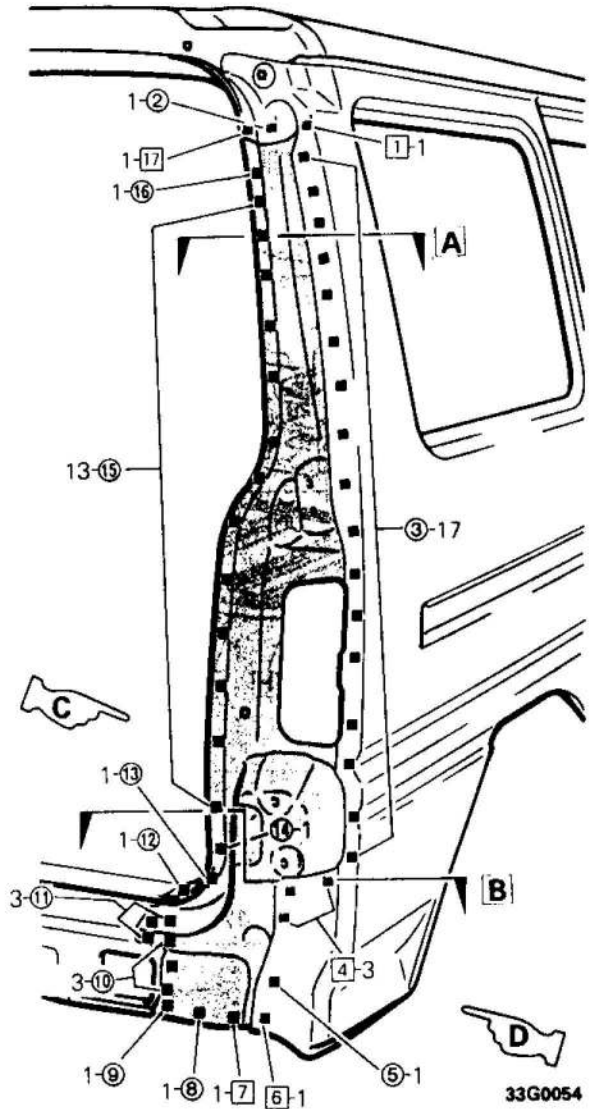
B

33G0056

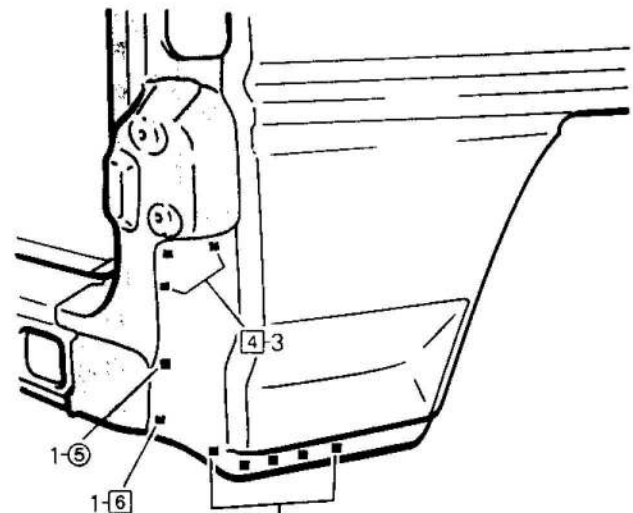


C

33G0048

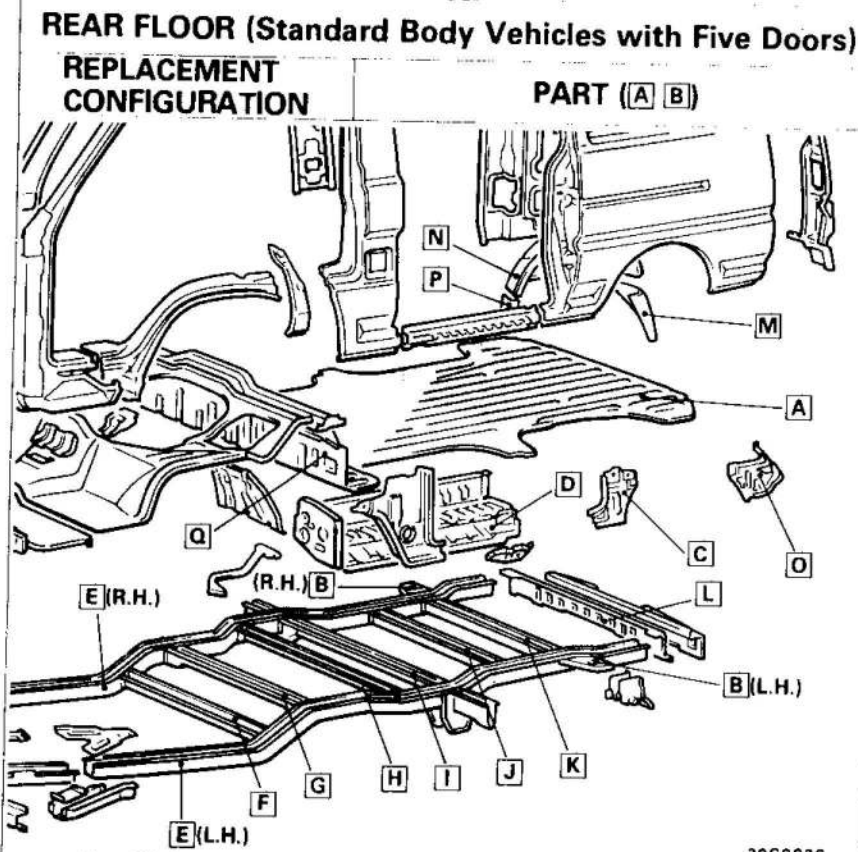


33G0054



D

33G0058



**PART NAME**

- A** Rear floor panel
- B** Third seat anchor reinforcement (Mini-bus)
- C** Quarter, inner, lower, front
- D** Rear side step
- E** Body frame (sidemember)
- F** Crossmember No. 1
- G** Crossmember No. 2
- H** Crossmember No. 3
- I** Crossmember No. 4
- J** Crossmember No. 5
- K** Crossmember No. 6
- L** Rear end crossmember, inner
- M** Rear wheelhouse, outer, lower
- N** Rear wheelhouse, inner
- O** Quarter, inner, lower, rear
- P** Front wheelhouse, outer, lower
- Q** Upright floor panel

30G0026

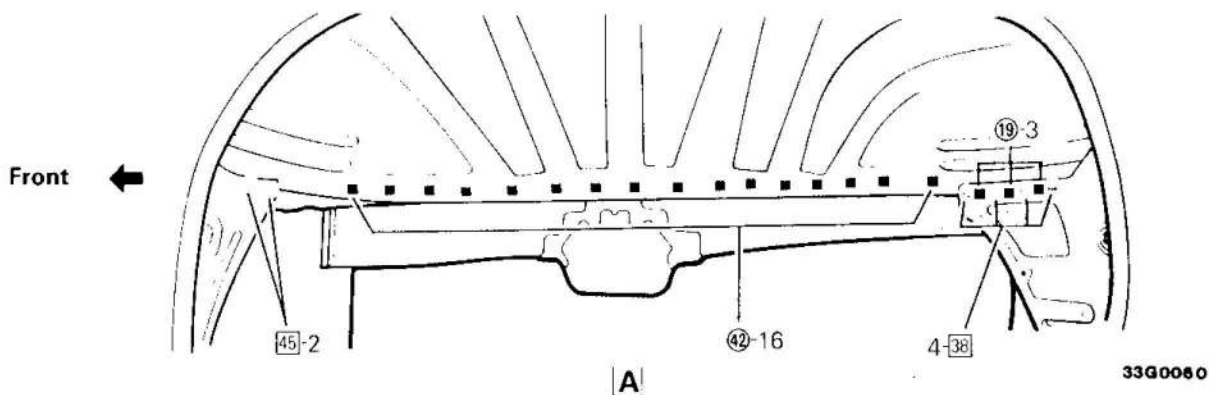
No.	Welded parts	F	R
①	A + E + Q	2	Plug 2
②	A + Q	17	Plug 17
③	A + E + Q	2	Plug 2
④	A + G ★	1	Plug 1
⑤	A + F + Q	11	Plug 11
⑥	A + E + Q ★	2	Plug 2
⑦	A + D + Q	2	Plug 2
⑧	A + E ★	8	Plug 8
⑨	A + E ★	13	Plug 13
⑩	A + E ★	15	Plug 15
⑪*	A + E ★	4	Plug 4
⑫*	A + E ★	2	Plug 2
⑬	A + D + E	2	Plug 2
⑭	A + E	14	Plug 14
⑮	A + E ★	6	Plug 6
⑯	A + E ★	2	Plug 2
⑰	A + E L.H.	56	Plug 56
⑱	A + E R.H.	53	Plug 53
⑲	A + B ★	16	Plug 16
⑳	A + L	19	Plug 19
㉑	A + L	4	Plug 4

No.	Welded parts	F	R
㉒	A + E + L	4	Plug 4
㉓	A + F	9	Plug 9
㉔	A + G ★	7	Plug 7
㉕	A + G ★	2	Plug 2
㉖*	A + G	1	Plug 1
㉗	A + G	19	Plug 19
㉘	A + H ★	8	Plug 8
㉙	A + H ★	8	Plug 8
㉚	A + H	4	Plug 4
㉛	A + H ★	16	Plug 16
㉜	A + H	18	Plug 18
㉝	A + I	18	Plug 18
㉞	A + I	4	Plug 4
㉟	A + J	22	Plug 22
㊱	A + K	22	Plug 22
㊲	A + B + E ★	8	Plug 8
㊳	A + M + N	4	Plug 4
㊴	A + D	24	Plug 24
㊵	A + C + E	2	Plug 2
㊶	A + C	2	Plug 2
㊷	A + N	32	Plug 32

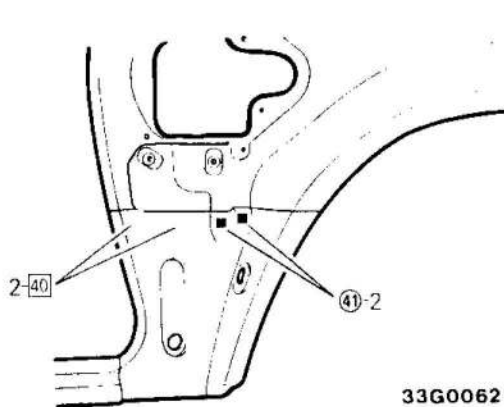
No.	Welded parts	F	R	No.	Welded parts	F	R
43	A + B + O ★	6	Plug 6				
44	A + O	10	Plug 10				
45	A + N + P	2	Plug 2				
46	A + B ★	4	Plug 4				
47	B + E	6	Plug 6				

\* Van

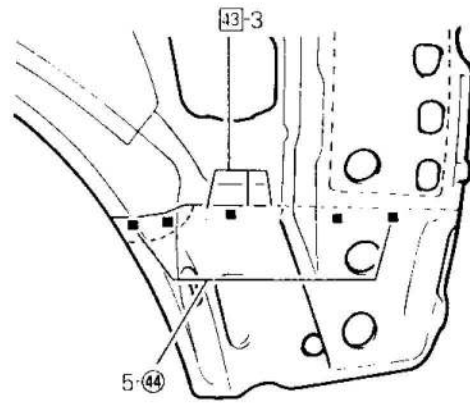
REPAIR WELDS



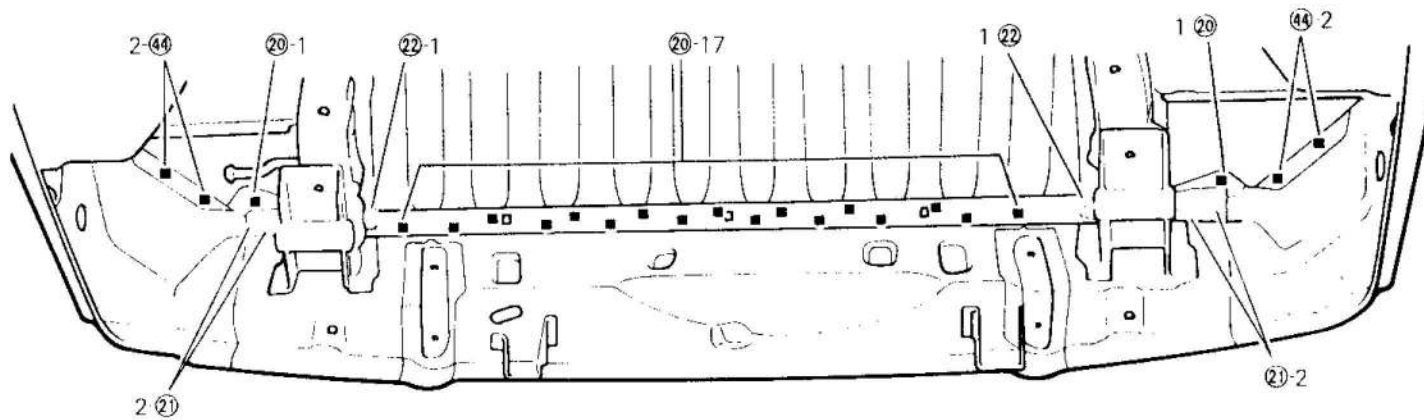
33G0060



33G0062



33G0063



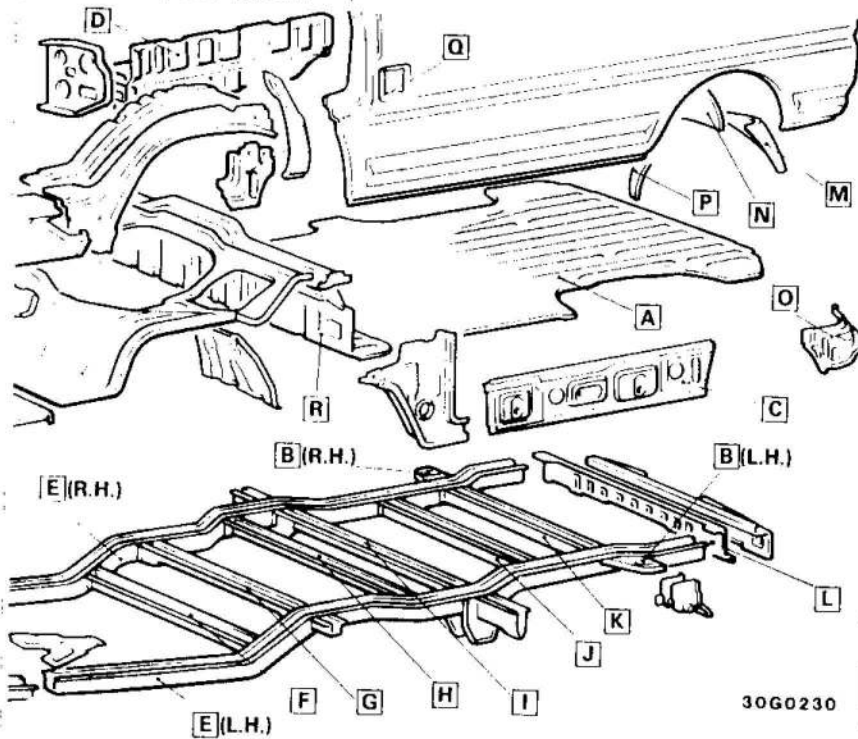
33G0064

NOTE

- (1) For weld points, refer to the fold-out (appendix 4) at the end of this group.
- (2) Figures [B] and [C] show the quarter outer panel in the removed condition.

**REAR FLOOR (Standard Body Vehicles with Four Doors)**  
**REPLACEMENT CONFIGURATION**

**PART NAME**



30G0230

- A** Rear floor panel
- B** Third seat anchor reinforcement (Mini-bus)
- C** Quarter, inner, lower, front
- D** Rear side step
- E** Body frame (sidemember)
- F** Crossmember No. 1
- G** Crossmember No. 2
- H** Crossmember No. 3
- I** Crossmember No. 4
- J** Crossmember No. 5
- K** Crossmember No. 6
- L** Rear end crossmember, inner
- M** Rear wheelhouse, outer, lower
- N** Rear wheelhouse, inner
- O** Quarter, inner, lower, rear
- P** Front wheelhouse, outer, lower
- Q** Quarter, inner, lower, front
- R** Upright floor panel

**No. Welded parts**

- (1) **A + Q + R**
- (2) **A + R**
- (3) **A + E + R**
- (4) **A + G** ★
- (5) **A + F + R**
- (6) **A + E + R** ★
- (7) **A + D + R**
- (8) **A + E** ★
- (9) **A + E** ★
- (10) **A + E** ★
- (11)\* **A + E** ★
- (12)\* **A + E** ★
- (13) **A + D + E**
- (14) **A + E**
- (15) **A + E** ★
- (16) **A + E** ★
- (17) **A + E** L.H.
- (18) **A + E** R.H.
- (19) **A + B** ★
- (20) **A + L**
- (21) **A + L**

**F**

- 1 Plug 1
- 20 Plug 20
- 4 Plug 4
- 1 Plug 1
- 11 Plug 11
- 2 Plug 2
- 1 Plug 1
- 8 Plug 8
- 13 Plug 13
- 16 Plug 16
- 2 Plug 2
- 1 Plug 1
- 1 Plug 1
- 23 Plug 23
- 6 Plug 6
- 2 Plug 2
- 56 Plug 56
- 53 Plug 53
- 16 Plug 16
- 18 Plug 18
- 4 Plug 4

**R**

**No. Welded parts**

- (22) **A + E + L**
- (23) **A + F**
- (24) **A + G** ★
- (25) **A + G** ★
- (26)\* **A + G**
- (27) **A + G**
- (28) **A + H** ★
- (29) **A + H** ★
- (30) **A + H**
- (31) **A + H** ★
- (32) **A + H**
- (33) **A + I**
- (34) **A + I**
- (35) **A + J**
- (36) **A + K**
- (37) **A + E** ★
- (38) **A + E** ★
- (39) **A + D**
- (40) **A + E + Q**
- (41) **A + Q**
- (42) **A + N**

**F**

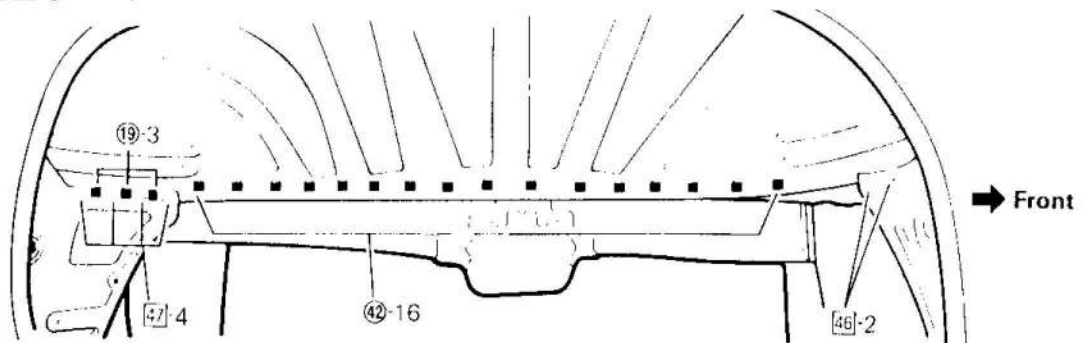
- 4 Plug 4
- 9 Plug 9
- 7 Plug 7
- 2 Plug 2
- 1 Plug 1
- 19 Plug 19
- 8 Plug 8
- 8 Plug 8
- 4 Plug 4
- 16 Plug 16
- 18 Plug 18
- 18 Plug 18
- 4 Plug 4
- 22 Plug 22
- 22 Plug 22
- 10 Plug 10
- 6 Plug 6
- 12 Plug 12
- 4 Plug 4
- 12 Plug 12
- 32 Plug 32

**R**

No.	Welded parts	F	R	No.	Welded parts	F	R
43	[A] + [B] + [O] ★	6	Plug 6	49	[A] + [C] R.H.	2	Plug 2
44	[A] + [O]	10	Plug 10	50	[A] + [B] ★	8	Plug 8
45	[A] + [Q] + [E] L.H. ★	5	Plug 5	51	[A] + [B] ★	4	Plug 4
46	[A] + [N] + [P]	2	Plug 2	52	[B] + [E]	8	Plug 8
47	[A] + [M] + [N]	4	Plug 4	53**	[A] + [L]	1	Plug 1
48	[A] + [C] + [E] R.H.	2	Plug 2	54**	[A] + [L]	2	Plug 2

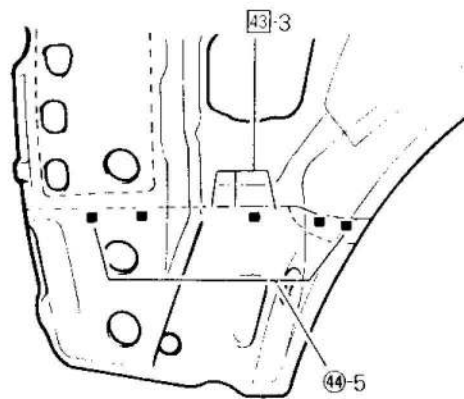
\* Van  
\*\* Vehicles for Australia (Mini-bus)

REPAIR WELDS



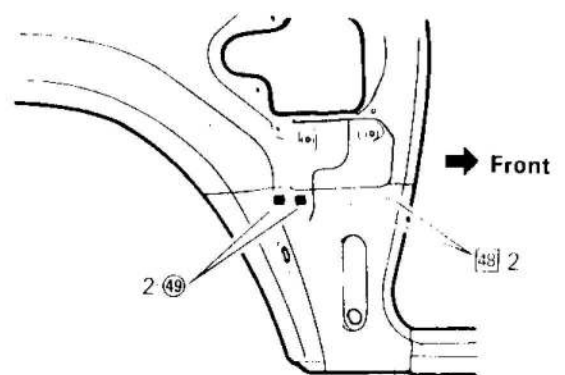
A

33G0081



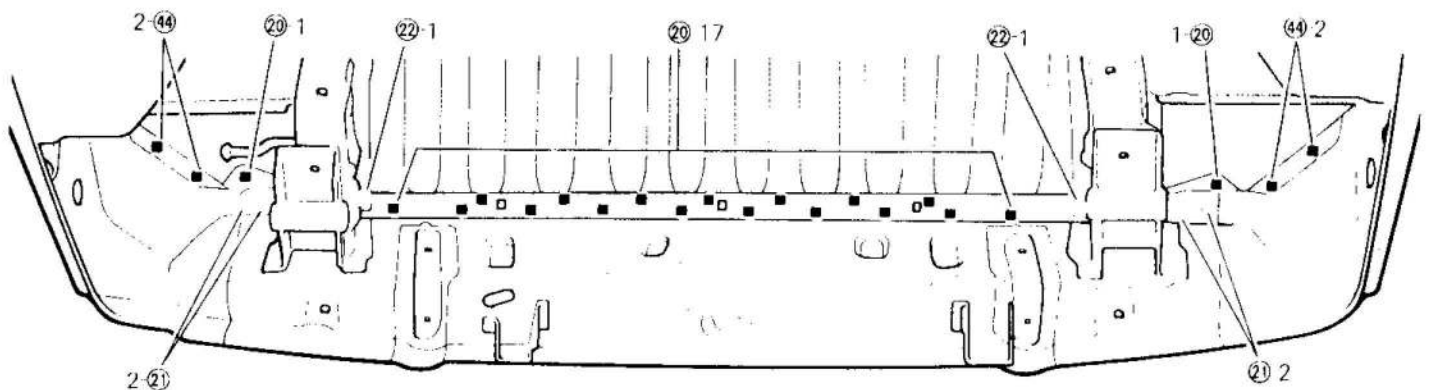
B

30G0064



C

30G0062



D

33G0086

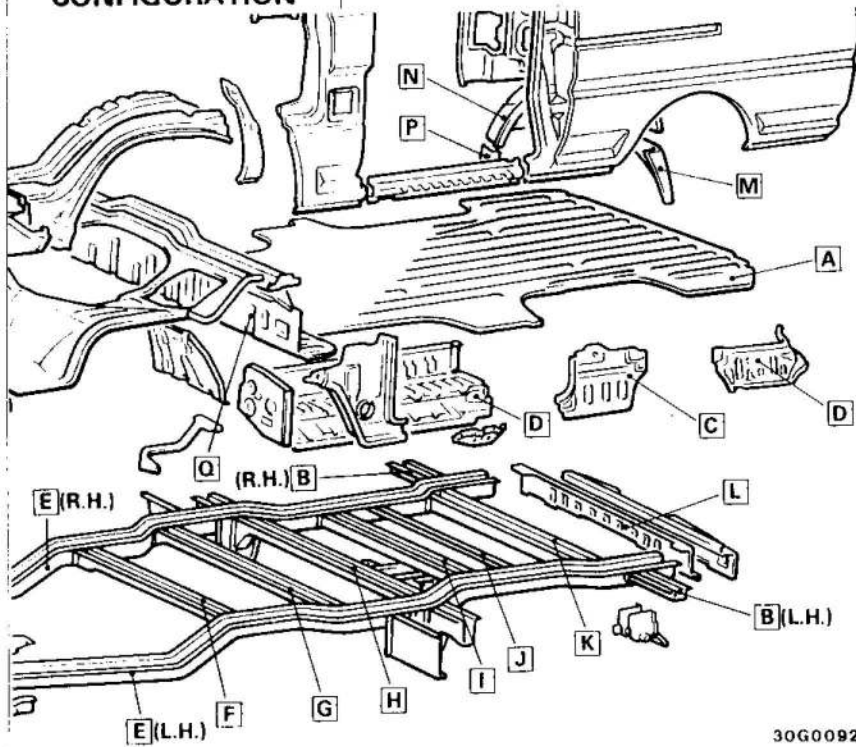
NOTE

- (1) For weld points, refer to the fold-out (appendix 5) at the end of this group.
- (2) Figures [B] and [C] show the quarter outer panel in the removed condition.

REAR FLOOR (Long Body Vehicles)

REPLACEMENT CONFIGURATION

PART (A B)



PART NAME

- A Rear floor panel
- B Rear brace
- C Quarter, inner, lower, front
- D Rear side step
- E Body frame (sidemember)
- F Crossmember No. 1
- G Crossmember No. 2
- H Crossmember No. 3
- I Crossmember No. 4
- J Crossmember No. 5
- K Crossmember No. 6
- L Rear end crossmember, inner
- M Rear wheelhouse, outer, lower
- N Rear wheelhouse, inner
- O Quarter, inner, lower, rear
- P Front wheelhouse, outer, lower
- Q Upright floor panel

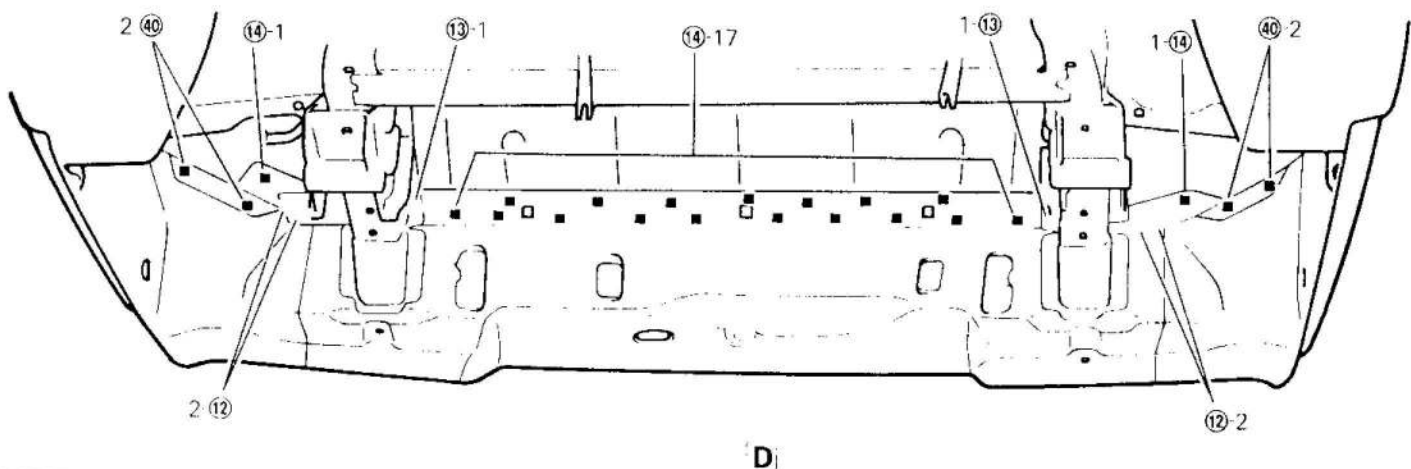
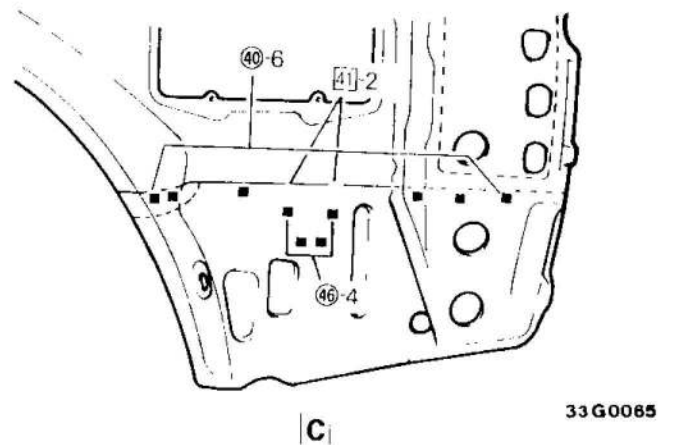
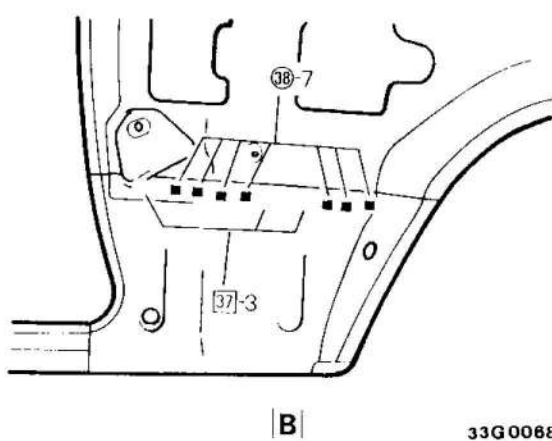
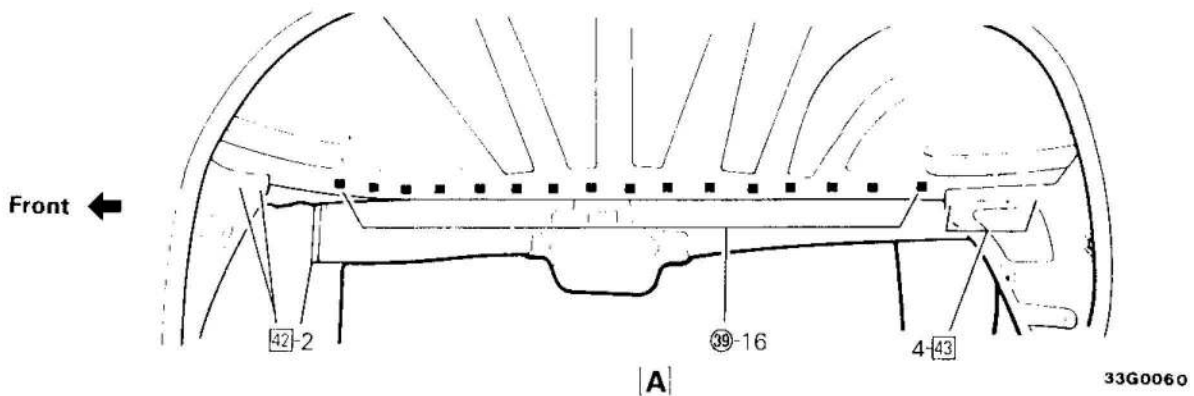
30G0092

No.	Welded parts	F	R	No.	Welded parts	F	R
①	A + D + Q	2	Plug 2	22	A + G	19	Plug 19
②	A + E + Q	4	Plug 4	23*	A + G	1	Plug 1
③	A + Q	17	Plug 17	24**	A + G	★	Plug 4
④*	A + E	★	Plug 4	25**	A + G	★	Plug 1
⑤*	A + E	★	Plug 2	26	A + H	4	Plug 4
⑥	A + D	24	Plug 24	27	A + H	21	Plug 21
⑦	A + E	8	Plug 8	28**	A + H	★	Plug 1
⑧	A + E	23	Plug 23	29	A + I	★	Plug 8
⑨	A + D + E	2	Plug 2	30**	A + I	★	Plug 2
⑩	A + E L.H.	63	Plug 63	31**	A + I	★	Plug 2
⑪	A + E R.H.	63	Plug 63	32	A + I	21	Plug 21
⑫	A + L	4	Plug 4	33	A + J	11	Plug 11
⑬	A + E + L	4	Plug 4	34**	A + K	★	Plug 4
⑭	A + L	19	Plug 19	35	A + K	22	Plug 22
⑮**	A + E	★	Plug 6	36**	A + K	★	Plug 10
⑯**	A + E	★	Plug 3	37	A + C + E	6	Plug 6
⑰	A + F	19	Plug 19	38	A + C	14	Plug 14
⑱	A + F	★	Plug 4	39	A + N	32	Plug 32
⑲	A + F	★	Plug 2	40	A + O	12	Plug 12
⑳*	A + F	1	Plug 1	41	A + B + O	4	Plug 4
㉑	A + G	3	Plug 3	42	A + N + P	4	Plug 4

No.	Welded parts	F	R	No.	Welded parts	F	R
43	A + M + N	8	Plug 8				
44	A + E + G ★	1	Plug 1				
45	A + B	16	Plug 16				
46	B + O	8	Plug 8				
47	B + E ★	12	Plug 12				

\* Van  
 \*\* Mini-bus

REPAIR WELDS



NOTE

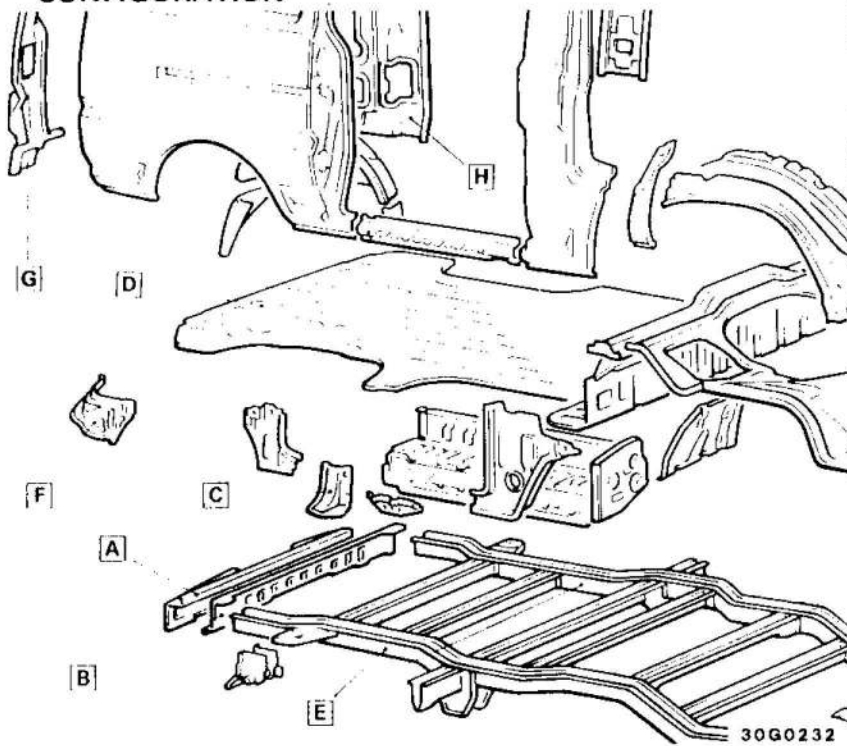
- (1) For weld points, refer to the fold-out (appendix 6) at the end of this group.
- (2) Figures [B] and [C] show the quarter outer panel in the removed condition.

REAR END CROSSMEMBER

PART NAME

REPLACEMENT CONFIGURATION

ASSEMBLY (A B C)



- A Front end crossmember, outer
- B Front end crossmember, inner
- C Quarter inner lower extension
- D Rear floor panel
- E Body frame (sidemember)
- F Quarter, inner, lower, rear
- G Rear quarter outer extension
- H Quarter panel, inner

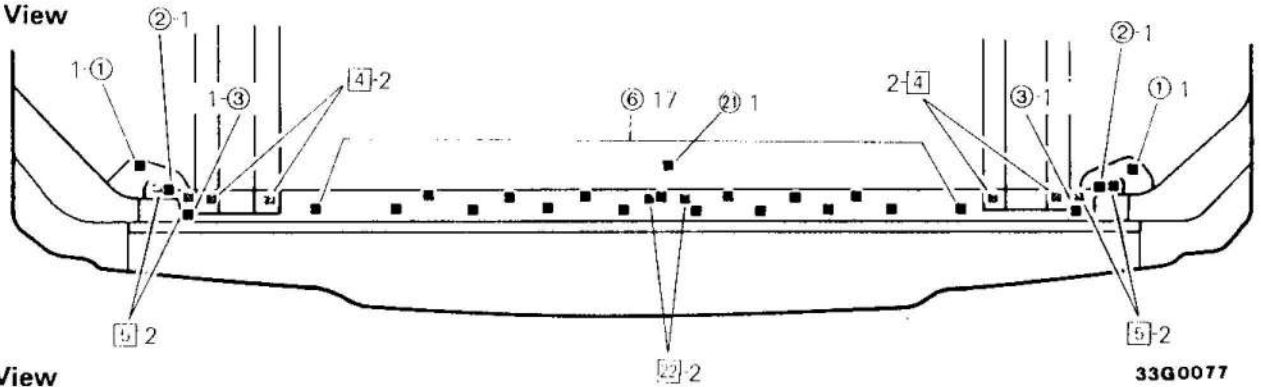
No.	Welded parts	F	R	No.	Welded parts	F	R
①	C + D	2	Plug 2	22*	B + D	2	Plug 2
②	B + C	2	Plug 2				
③	A + C	2	Plug 2				
④	B + D + E	4	Plug 4				
⑤	B + C + D	4	Plug 4				
⑥	A + D	17	Plug 17				
⑦	A + B + G	2	Plug 2				
⑧	A + G	6	Plug 6				
⑨	A + B + G	6	Plug 6				
⑩	A + B + G	2	Plug 2				
⑪	A + B	17	17				
⑫	A + B + E	4	Plug 4				
⑬	B + E	8	Plug 8				
⑭	B + F	8	Plug 8				
⑮	C + H	2	Plug 2				
⑯	C + F + H	2	Plug 2				
⑰	C + G + H	2	Plug 2				
⑱	C + G	2	Plug 2				
⑲	A + B	2	Plug 2				
⑳	A + B	13	Plug 13				
㉑*	B + D	1	Plug 1				

\* Vehicles for Australia



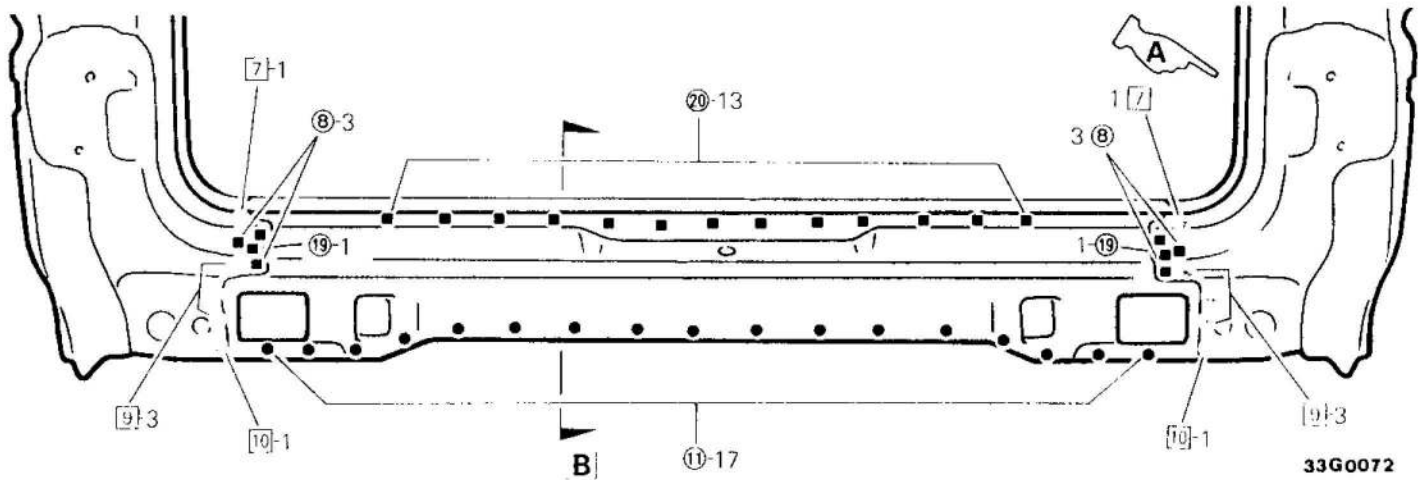
REPAIR WELDS

Plain View



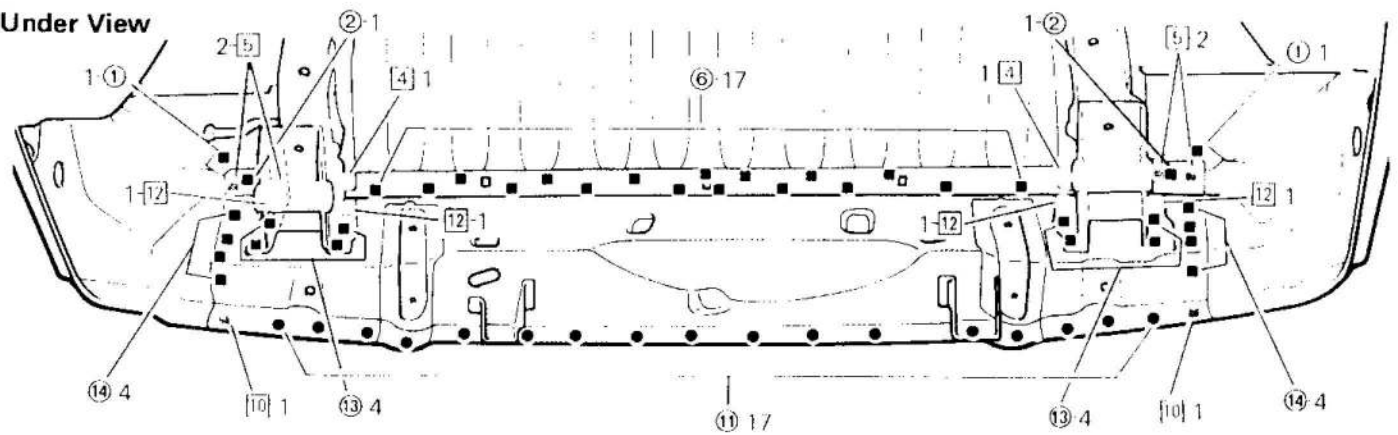
33G0077

Rear View

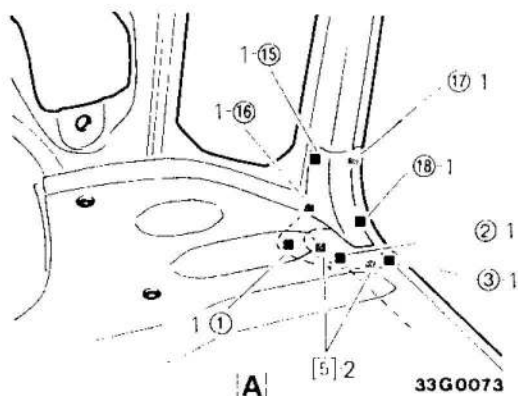


33G0072

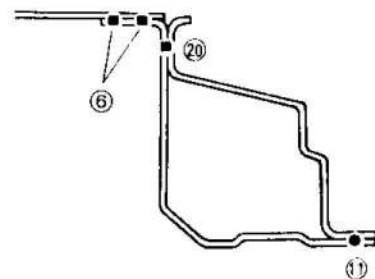
Under View



33G0067



33G0073



B

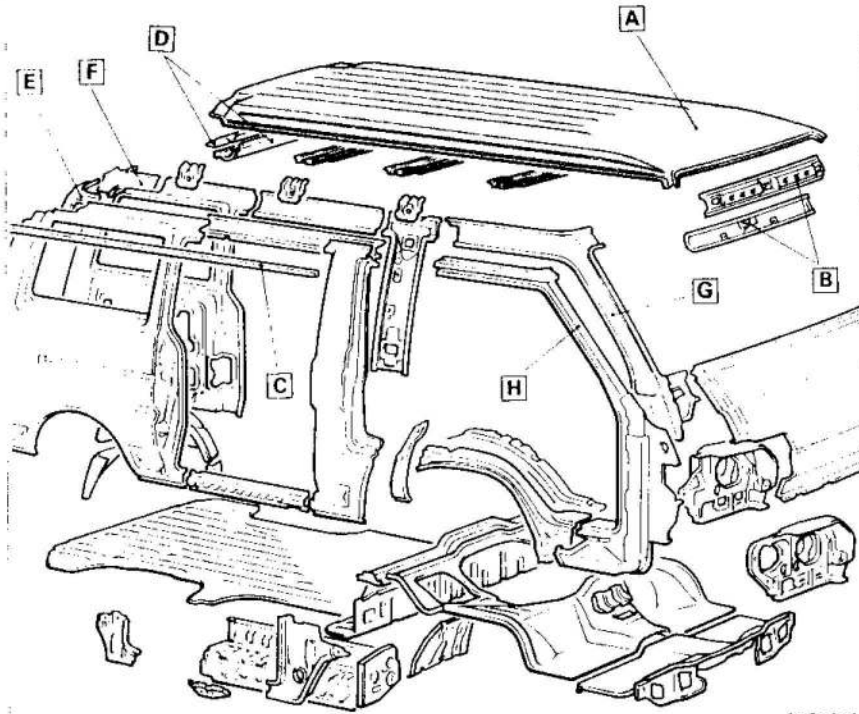
33G0071

ROOF PANEL (Standard Body Vehicles)

PART NAME

REPLACEMENT CONFIGURATION

ASSEMBLY (A)

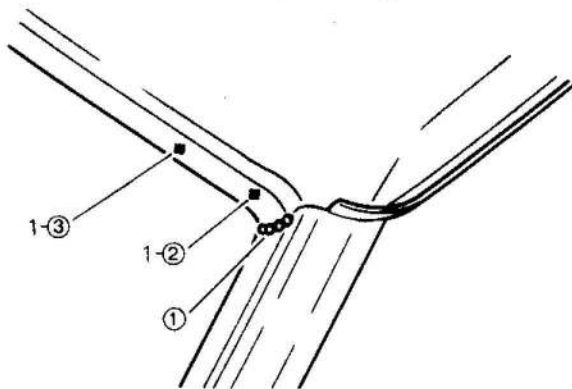


3000228

- A Roof panel
- B Front roof rail
- C Drip channel
- D Rear roof rail
- E Rear roof rail outer extension
- F Rear roof rail inner extension
- G Front pillar, inner, upper
- H Front pillar, outer

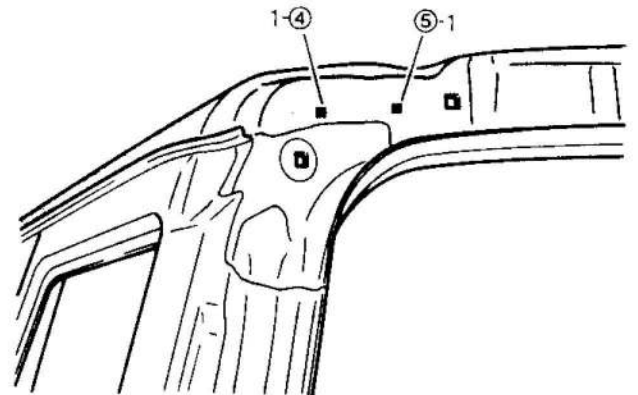
No.	Welded parts	F	R	No.	Welded parts	F	R
①	A + H	MIG brazing	MIG brazing				
②	A + G + H	2	Plug 2				
③	A + B + G	2	Plug 2				
④	A + E	2	Plug 2				
⑤	A + F	2	Plug 2				
⑥	A + B	13	Plug 13				
⑦	A + C	92	92				
⑧	A + C	4	Plug 4				
⑨	A + E + F	6	Plug 6				
⑩	A + D	★ 13	Plug 13				

REPAIR WELDS



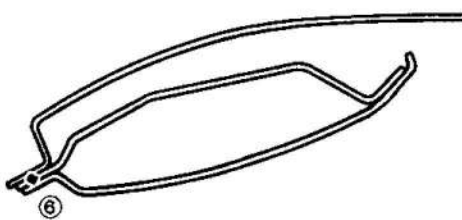
A

33G0001



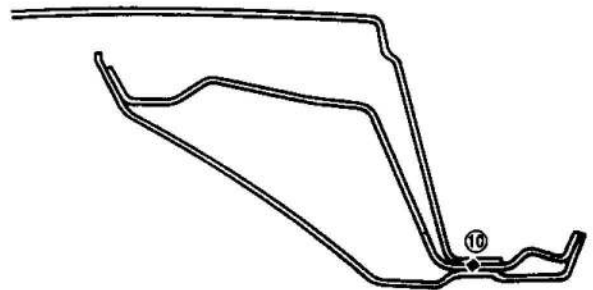
B

30G0008



C

33G0100



D

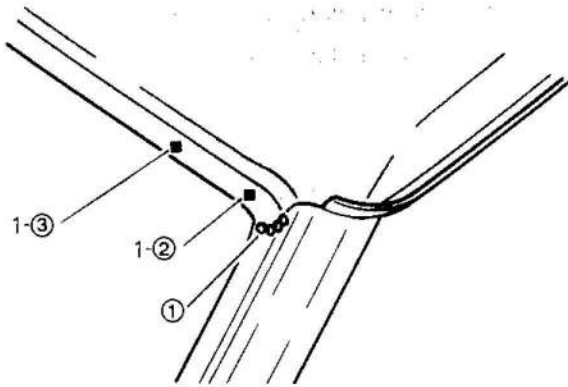
33G0101

NOTE

For weld points, refer to the fold-out (appendix 7) at the end of this group.

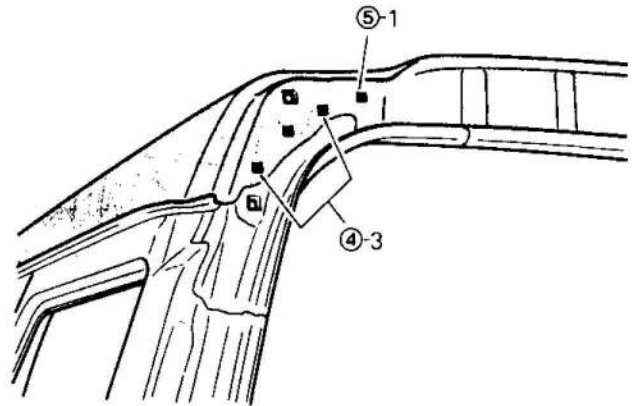


**REPAIR WELDS**



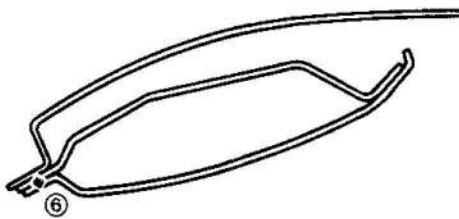
**A**

33G0001



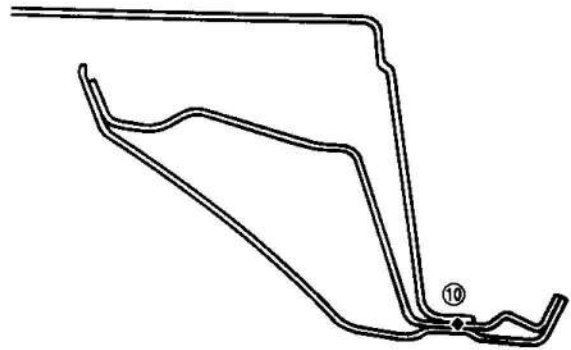
**B**

30G0003



**C**

33G0100



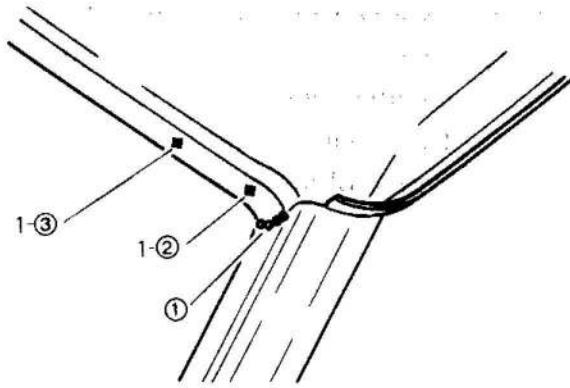
**D**

33G0103

**NOTE**  
For weld points, refer to the fold-out (appendix 7-1) at the end of this group.

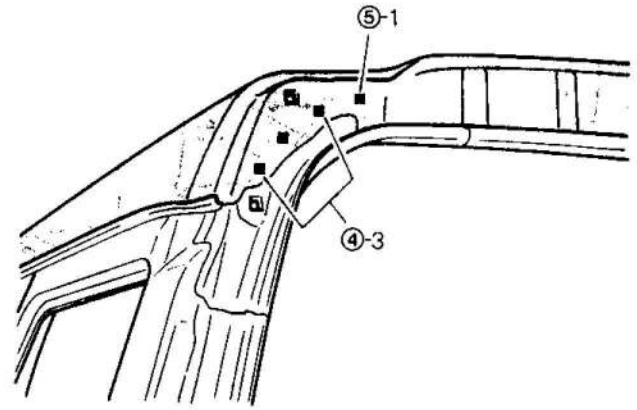


REPAIR WELDS



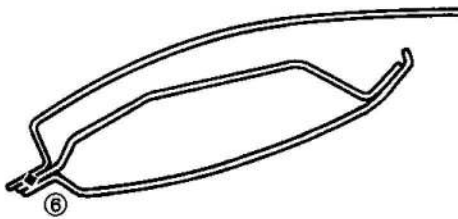
A

33G0001



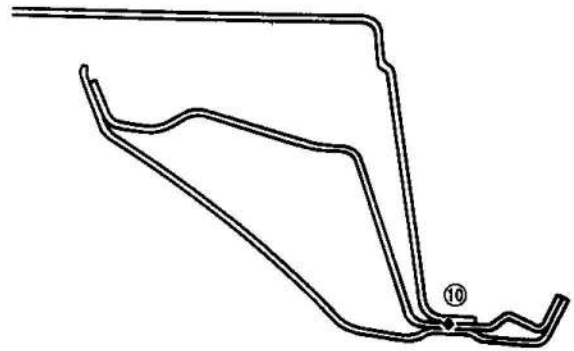
B

33G0003



C

33G0100



D

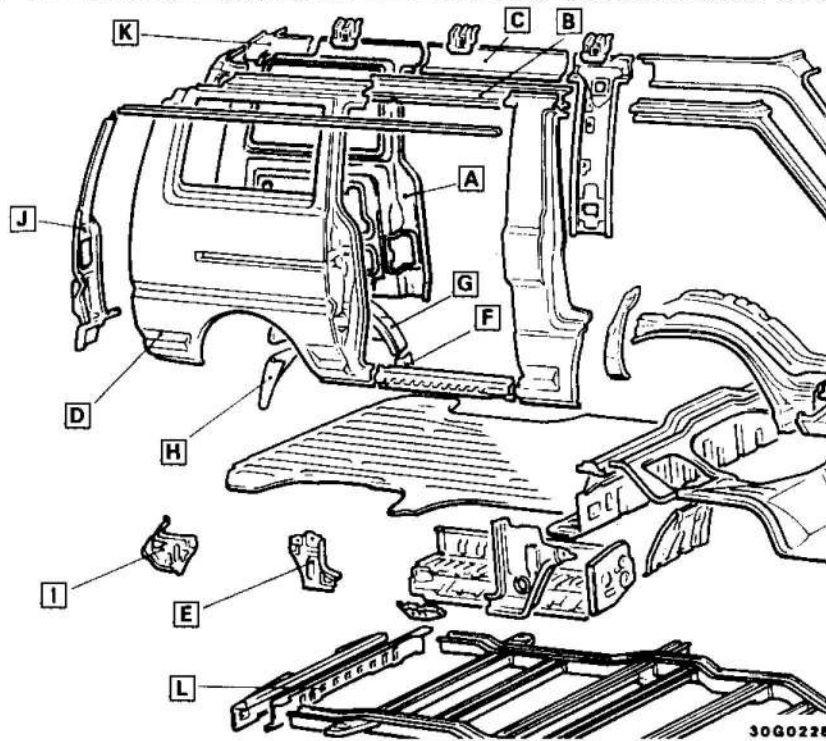
33G0103

NOTE  
For weld points, refer to the fold-out (appendix 8) at the end of this group.

★QUARTER PANEL, INNER (Standard Body Vehicles with Five Doors)

REPLACEMENT CONFIGURATION

ASSEMBLY (A)



PART NAME

- A Quarter panel, inner
- B Side roof rail, outer
- C Side roof rail, inner
- D Quarter panel, outer
- E Quarter, inner, lower, front
- F Front wheelhouse, outer, lower
- G Rear wheelhouse, inner
- H Rear wheelhouse, outer, lower
- I Quarter, inner, lower, rear
- J Rear quarter outer extension
- K Rear roof rail inner extension
- L Rear end crossmember, inner

★Quarter panel for Mini-bus and Window Van

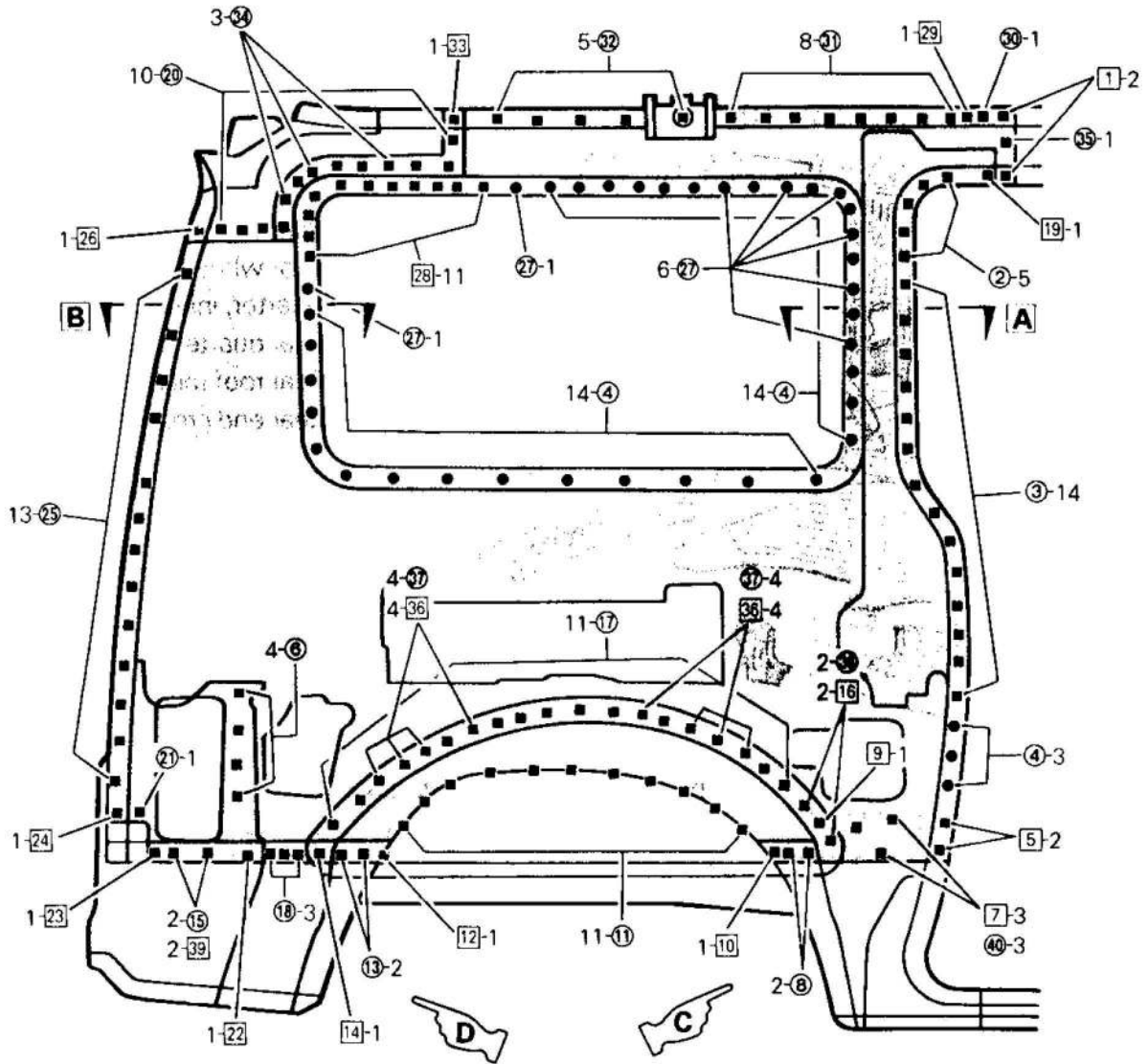
No.	Welded parts	F	R
1	A + B + C	2	Plug 2
2	A + D	5	Plug 5
3	A + D ★	14	Plug 14
4	A + D	31	31
5	A + D + E	2	Plug 2
6	A + J	4	Plug 4
7*	A + E ★	3	Plug 3
8	A + F	2	Plug 2
9	A + E + G	1	Plug 1
10	A + D + F	1	Plug 1
11	A + D	11	Plug 11
12	A + D + H	1	Plug 1
13	A + H	2	Plug 2
14	A + G + I ★	1	Plug 1
15	A + I R.H.	2	Plug 2
16*	A + G ★	2	Plug-2
17	A + G	11	Plug 11
18	A + I ★	3	Plug 3
19	A + B	1	Plug 1
20	A + K ★	10	Plug 10
21	A + L	1	Plug 1

No.	Welded parts	F	R
22	A + I + J ★	1	Plug 1
23	A + I + L	1	Plug 1
24	A + J + L	1	Plug 1
25	A + J ★	13	Plug 13
26	A + J + K ★	1	Plug 1
27	A + D ★	8	8
28	A + D + K ★	11	Plug 11
29	A + B + D	1	Plug 1
30	A + B ★	1	Plug 1
31	A + D ★	8	Plug 8
32	A + D ★	5	Plug 5
33	A + D + K ★	1	Plug 1
34	A + K ★	3	Plug 3
35	A + C ★	1	Plug 1
36*	A + G ★	8	Plug 8
37**	A + G	8	Plug 8
38**	A + G	2	Plug 2
39	A + I + J L.H.	2	Plug 2
40**	A + E	3	Plug 3

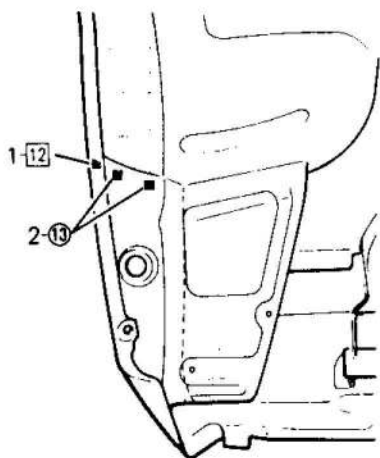
\* Mini-bus  
\*\* Window Van



REPAIR WELDS

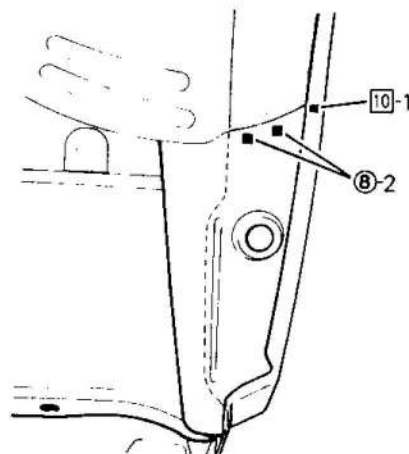


33G0078



33G0080

D



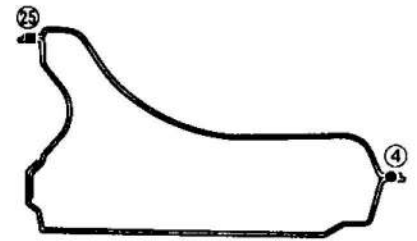
33G0079

C



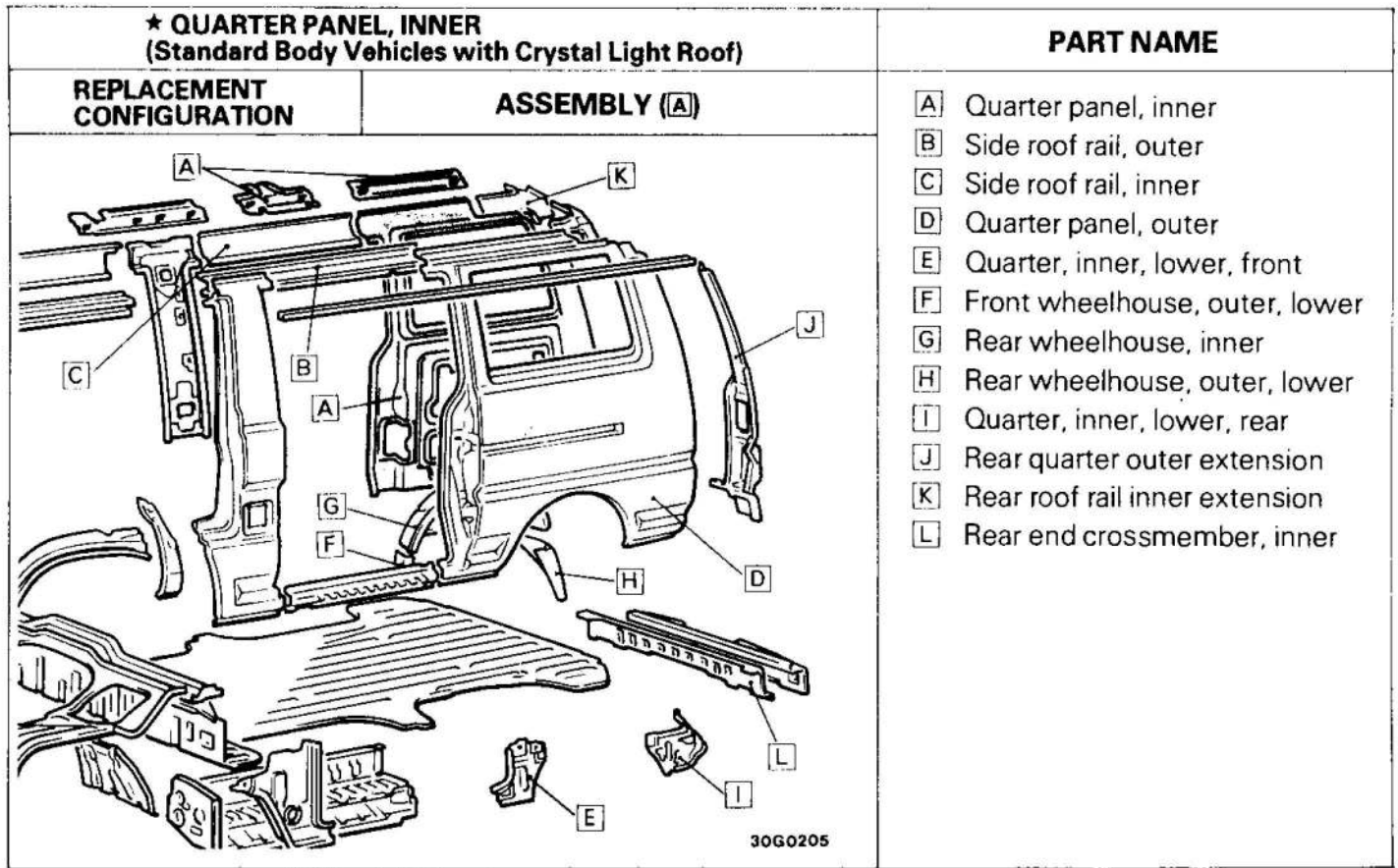
33G0047

A



33G0055

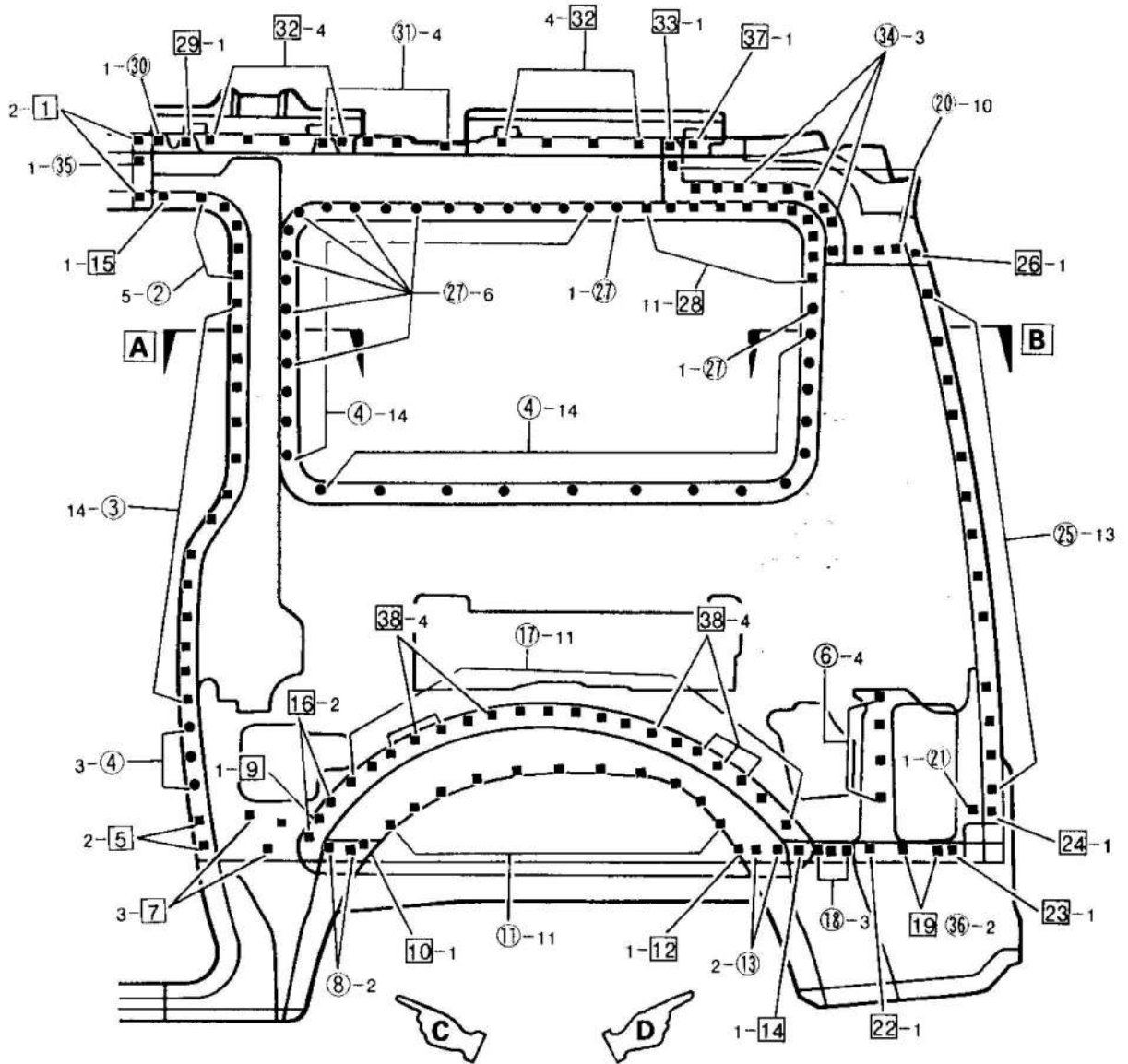
B



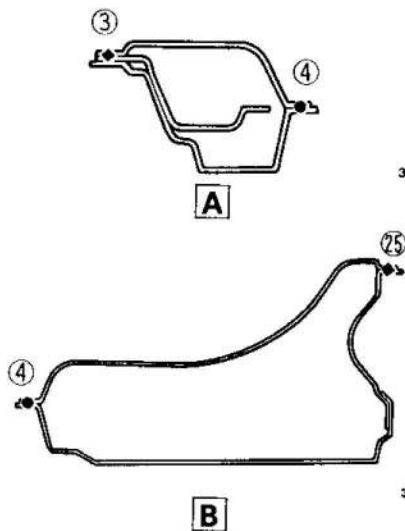
No.	Welded parts	F	R
1	A + B + C	2	Plug 2
2	A + D	5	Plug 5
3	A + D ★	14	Plug 14
4	A + D	31	31
5	A + D + E	2	Plug 2
6	A + J	4	Plug 4
7	A + E ★	3	Plug 3
8	A + F	2	Plug 2
9	A + E + G	1	Plug 1
10	A + D + F	1	Plug 1
11	A + D	11	Plug 11
12	A + D + H	1	Plug 1
13	A + H	2	Plug 2
14	A + G + I ★	1	Plug 1
15	A + B	1	Plug 1
16	A + G ★	2	Plug 2
17	A + G	11	Plug 11
18	A + I ★	3	Plug 3
19	A + I + J L.H.	2	Plug 2
20	A + K ★	10	Plug 10
21	A + L	1	Plug 1

No.	Welded parts	F	R
22	A + I + J ★	1	Plug 1
23	A + I + L	1	Plug 1
24	A + J + L	1	Plug 1
25	A + J ★	13	Plug 13
26	A + J + K ★	1	Plug 1
27	A + D ★	8	8
28	A + D + K ★	11	Plug 11
29	A + B + D	1	Plug 1
30	A + D	1	Plug 1
31	A + D ★	4	Plug 4
32	A + D	8	Plug 8
33	A + D + K ★	1	Plug 1
34	A + K ★	3	Plug 3
35	A + C ★	1	Plug 1
36	A + I R.H.	2	Plug 2
37	A + K	1	Plug 1
38	A + G ★	8	Plug 8

REPAIR WELDS

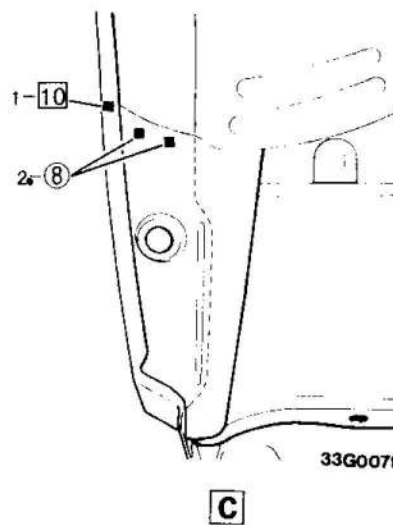


33G0081

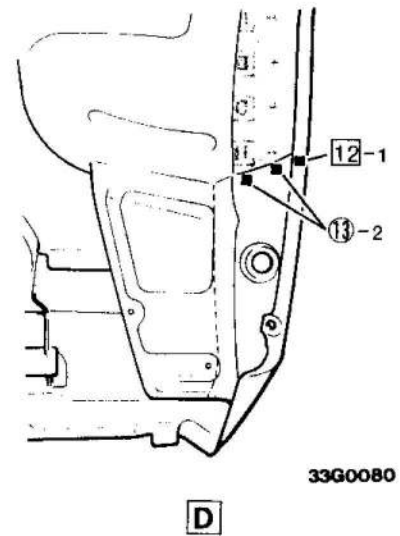


33G0047

33G0052



33G0078

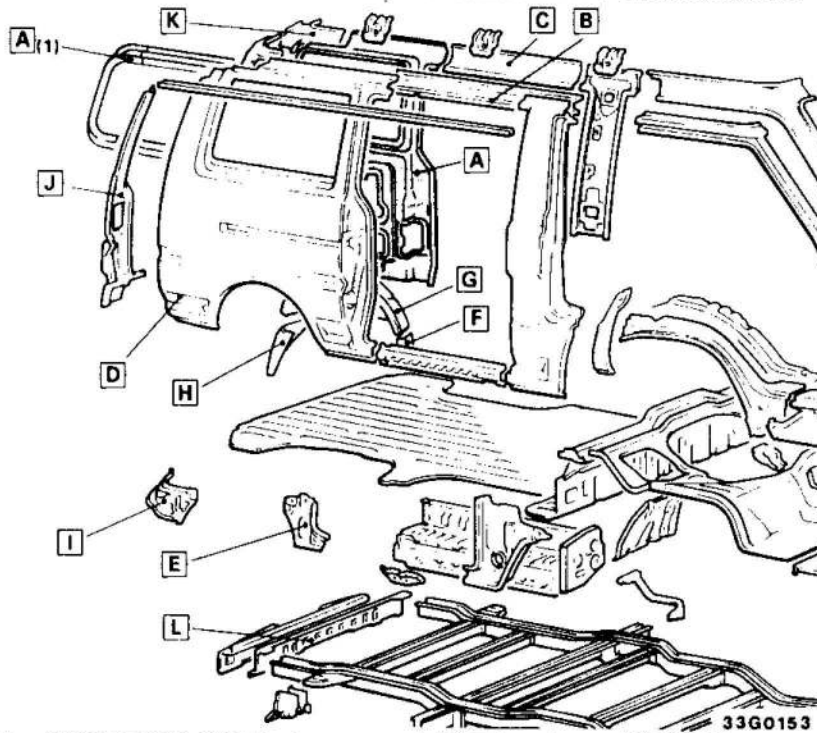


33G0080

★QUARTER PANEL, INNER (Standard Body Vehicles with Five Doors)

REPLACEMENT CONFIGURATION

ASSEMBLY (A A<sub>(1)</sub>)



PART NAME

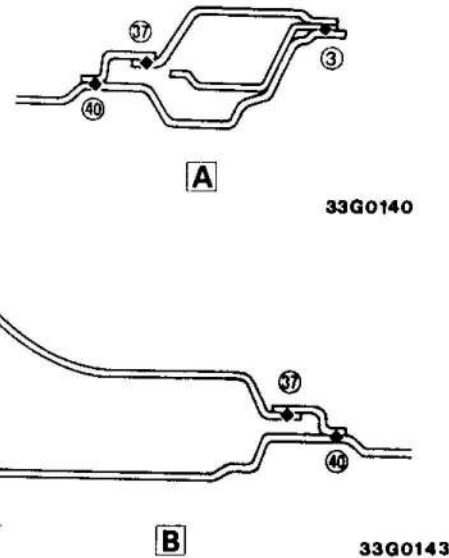
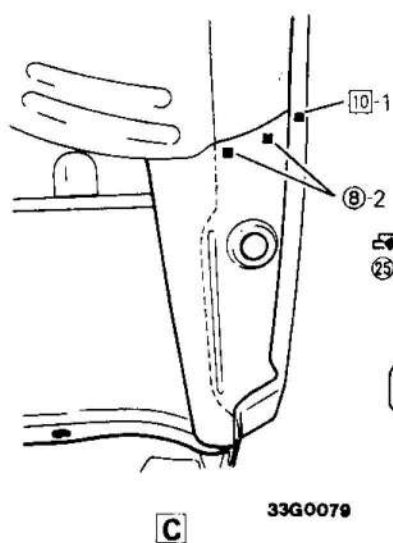
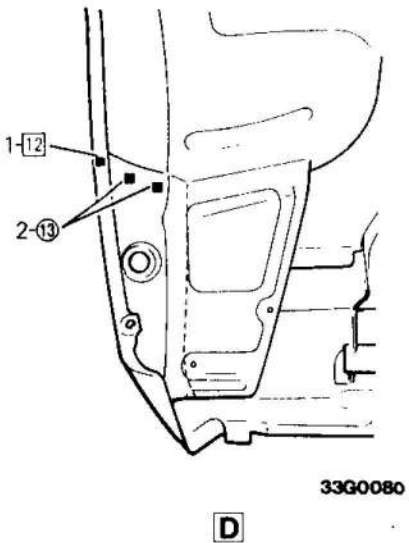
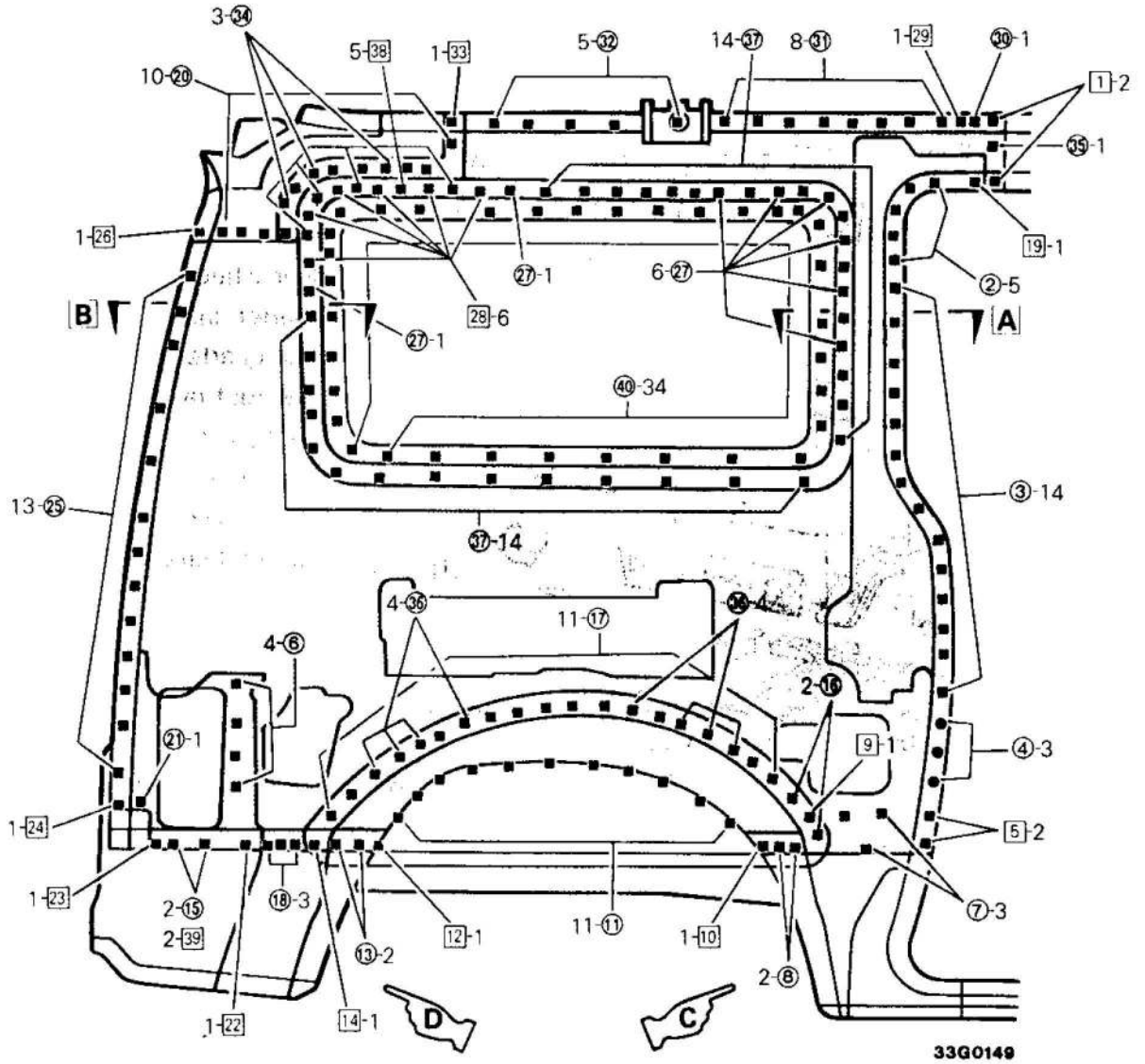
- A Quarter panel, inner
- A<sub>(1)</sub> Side window rear frame
- B Side roof rail, outer
- C Side roof rail, inner
- D Quarter panel, outer
- E Quarter, inner, lower, front
- F Front wheelhouse, outer, lower
- G Rear wheelhouse, inner
- H Rear wheelhouse, outer, lower
- I Quarter, inner, lower, rear
- J Rear quarter outer extension
- K Rear roof rail inner extension
- L Rear end crossmember, inner

★Quarter panel for Panel Van

No.	Welded parts	F	R
1	A + B + C	2	Plug 2
2	A + D	5	Plug 5
3	A + D ★	14	Plug 14
4	A + D	3	3
5	A + D + E	2	Plug 2
6	A + J	4	Plug 4
7	A + E	3	Plug 3
8	A + F	2	Plug 2
9	A + E + G	1	Plug 1
10	A + D + F	1	Plug 1
11	A + D	11	Plug 11
12	A + D + H	1	Plug 1
13	A + H	2	Plug 2
14	A + G + I ★	1	Plug 1
15	A + I R.H.	2	Plug 2
16	A + G	2	Plug 2
17	A + G	11	Plug 11
18	A + I ★	3	Plug 3
19	A + B	1	Plug 1
20	A + K ★	10	Plug 10
21	A + L	1	Plug 1

No.	Welded parts	F	R
22	A + I + J ★	1	Plug 1
23	A + I + L	1	Plug 1
24	A + J + L	1	Plug 1
25	A + J ★	13	Plug 13
26	A + J + K ★	1	Plug 1
27	A + D	8	Plug 8
28	A + A <sub>(1)</sub> + K ★	6	Plug 6
29	A + B + D	1	Plug 1
30	A + B ★	1	Plug 1
31	A + D ★	8	Plug 8
32	A + D ★	5	Plug 5
33	A + D + K ★	1	Plug 1
34	A + K ★	3	Plug 3
35	A + C ★	1	Plug 1
36	A + G	8	Plug 8
37	A + A <sub>(1)</sub>	28	Plug 28
38	A + D + K	5	Plug 5
39	A + I + J L.H.	2	Plug 2
40	A <sub>(1)</sub> + D ★	34	Plug 34

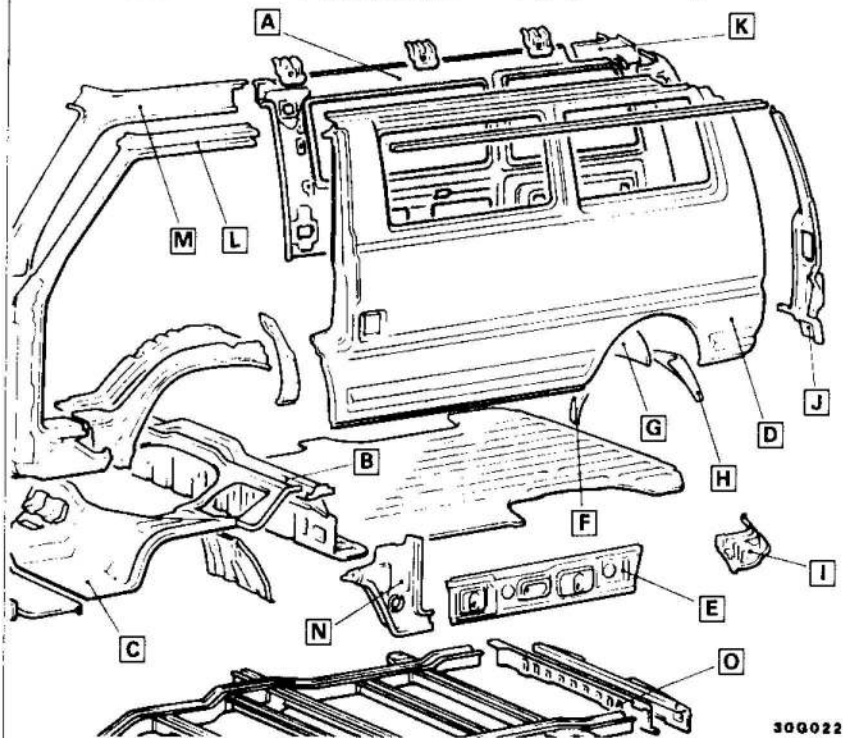
REPAIR WELDS



★QUARTER PANEL, INNER (Standard Body Vehicles with Four Doors)

REPLACEMENT CONFIGURATION

ASSEMBLY (A)



PART NAME

- A** Quarter panel, inner
- B** Upright floor crossmember
- C** Front floor pan (B)
- D** Quarter panel, outer
- E** Quarter, inner, lower, front
- F** Front wheelhouse, outer, lower
- G** Rear wheelhouse, inner
- H** Rear wheelhouse, outer, lower
- I** Quarter, inner, lower, rear
- J** Rear quarter outer extension
- K** Rear roof rail inner extension
- L** Front pillar, outer
- M** Front pillar, inner, upper
- N** Centre pillar, inner, lower
- O** Rear end crossmember, inner

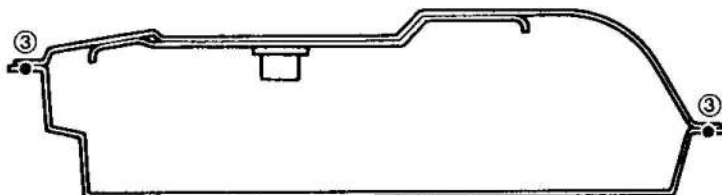
★Quarter panel for Mini-bus and Window Van

No.	Welded parts	F	R
1	A + D + M	4	Plug 4
2	A + M	1	Plug 1
3	A + D	77	77
4	A + D + N	1	Plug 1
5	A + N	★	Plug 2
6	A + C + N	★	Plug 2
7	A + B + N	★	Plug 1
8	A + N	7	Plug 7
9*	A + E	1	Plug 1
10	A + E	16	Plug 16
11	A + D + K	★	Plug 11
12*	A + E	★	Plug 2
13	A + D + E	2	Plug 2
14	A + E + G	1	Plug 1
15	A + D	★	17
16*	A + G	★	Plug 10
17	A + G	11	Plug 11
18	A + F	2	Plug 2
19	A + D + F	1	Plug 1
20	A + D	11	Plug 11
21	A + D + H	1	Plug 1

No.	Welded parts	F	R
22	A + H	2	Plug 2
23	A + G + I	★	Plug 1
24	A + I	★	Plug 3
25	A + I + J	★	Plug 1
26	A + D	★	Plug 9
27	A + I + J	L.H.	2
28	A + I + O		1
29	A + J + O		1
30	A + O		1
31	A + J		4
32	A + J	★	13
33	A + J + K	★	1
34	A + K	★	13
35	A + D + K	★	1
36	A + D	★	34
37**	A + E		2
38**	A + G		10
39	A + I	R.H.	2

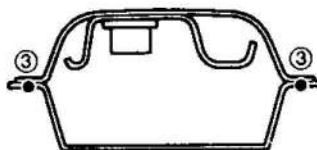
\* Mini-bus  
\*\* Window Van

REPAIR WELDS



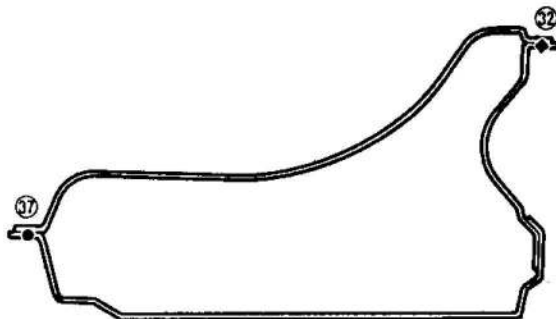
A

33G0051



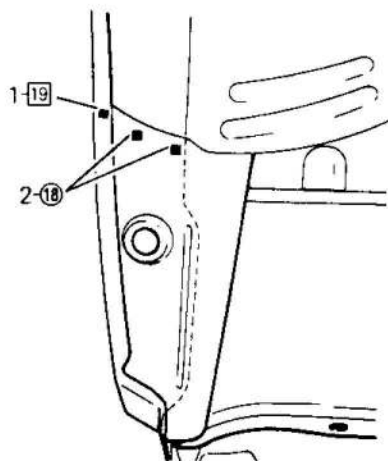
B

33G0049



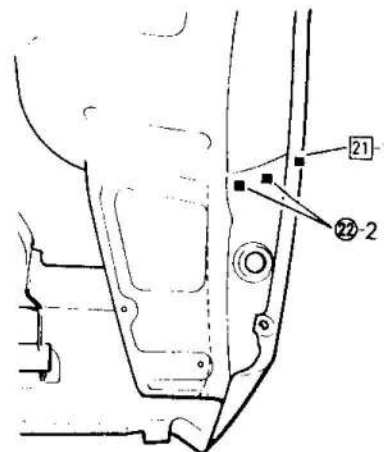
C

33G0052



D

33G0079



E

33G0080

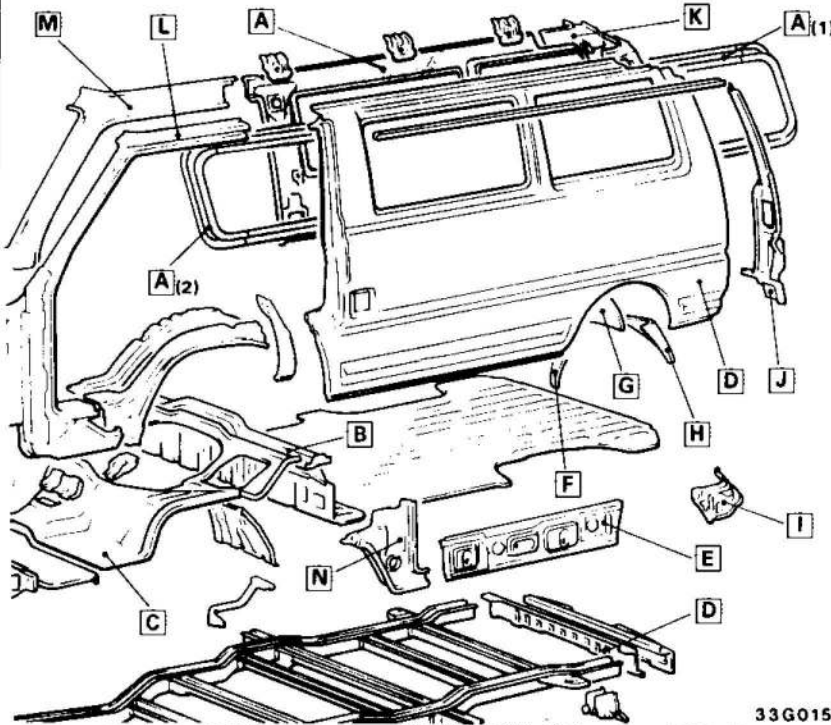
NOTE

For weld points, refer to the fold-out (appendix 9) at the end of this group.

★QUARTER PANEL, INNER (Standard Body Vehicles with Four Doors)

REPLACEMENT CONFIGURATION

ASSEMBLY (A A<sub>(1)</sub> A<sub>(2)</sub>)



33G0152

PART NAME

- A Quarter panel, inner
- A<sub>(1)</sub> Side window rear frame
- A<sub>(2)</sub> Window channel
- B Upright floor crossmember
- C Front floor pan (B)
- D Quarter panel, outer
- E Quarter, inner, lower, front
- F Front wheelhouse, outer, lower
- G Rear wheelhouse, inner
- H Rear wheelhouse, outer, lower
- I Quarter, inner, lower, rear
- J Rear quarter outer extension
- K Rear roof rail inner extension
- L Front pillar, outer
- M Front pillar, inner, upper
- N Centre pillar, inner, lower
- O Rear end crossmember, inner

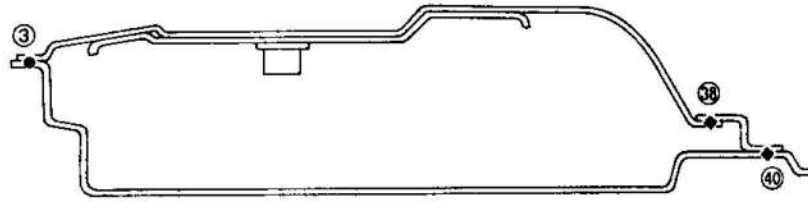
★Quarter panel for Panel Van

No.	Welded parts	F	R
1	A + D + M	4	Plug 4
2	A + M	1	Plug 1
3	A + D	17	17
4	A + D + N	1	Plug 1
5	A + N	★	Plug 2
6	A + C + N	★	Plug 2
7	A + B + N	★	Plug 1
8	A + N	7	Plug 7
9	A + I	R.H.	Plug 2
10	A + E	16	Plug 16
11	A + A <sub>(1)</sub> + K	★	Plug 6
12	A + E	2	Plug 2
13	A + D + E	2	Plug 2
14	A + E + G	1	Plug 1
15	A + D	★	Plug 17
16	A + G	10	Plug 10
17	A + G	11	Plug 11
18	A + F	2	Plug 2
19	A + D + F	1	Plug 1
20	A + D	11	Plug 11
21	A + D + H	1	Plug 1

No.	Welded parts	F	R
22	A + H	2	Plug 2
23	A + G + I	★	Plug 1
24	A + I	★	Plug 3
25	A + I + J	★	Plug 1
26	A + A <sub>(2)</sub>	★	Plug 6
27	A + I + J	L.H.	Plug 2
28	A + I + O	1	Plug 1
29	A + J + O	1	Plug 1
30	A + O	1	Plug 1
31	A + J	4	Plug 4
32	A + J	★	Plug 13
33	A + J + K	★	Plug 1
34	A + K	★	Plug 13
35	A + D + K	★	Plug 1
36	A + D	★	Plug 34
37	A + D + K	★	Plug 5
38	A + D	60	Plug 60
39	A <sub>(1)</sub> + D	34	Plug 34
40	A <sub>(2)</sub> + D	38	Plug 38
41	A + A <sub>(1)</sub> + D	3	Plug 3

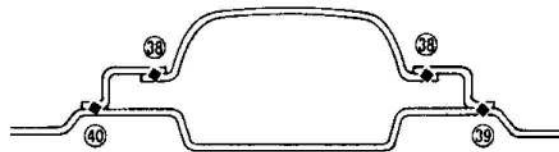


REPAIR WELDS



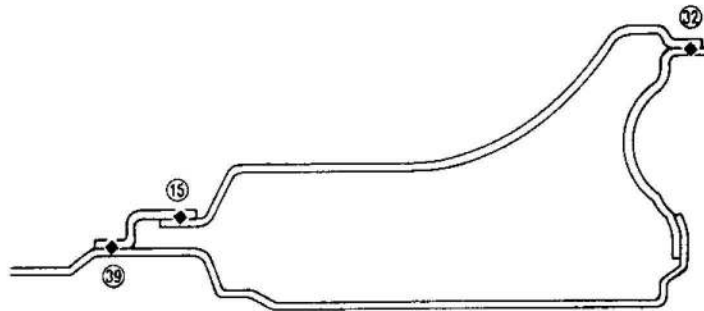
A

33G00145



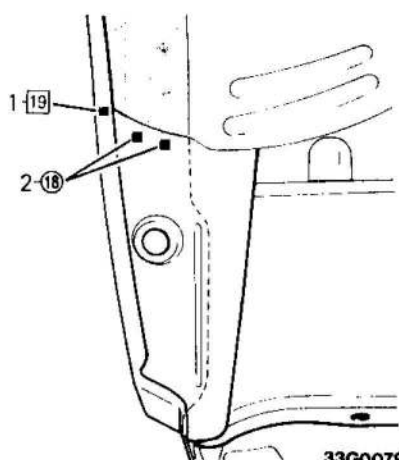
B

33G0141



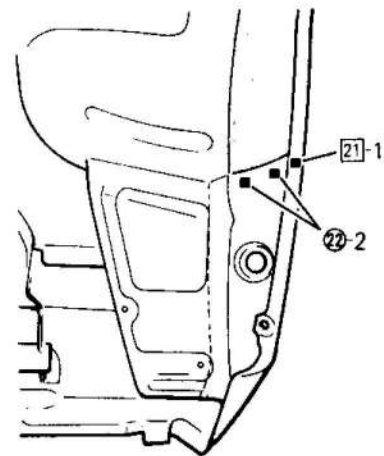
C

33G0143



33G0079

D



33G0080

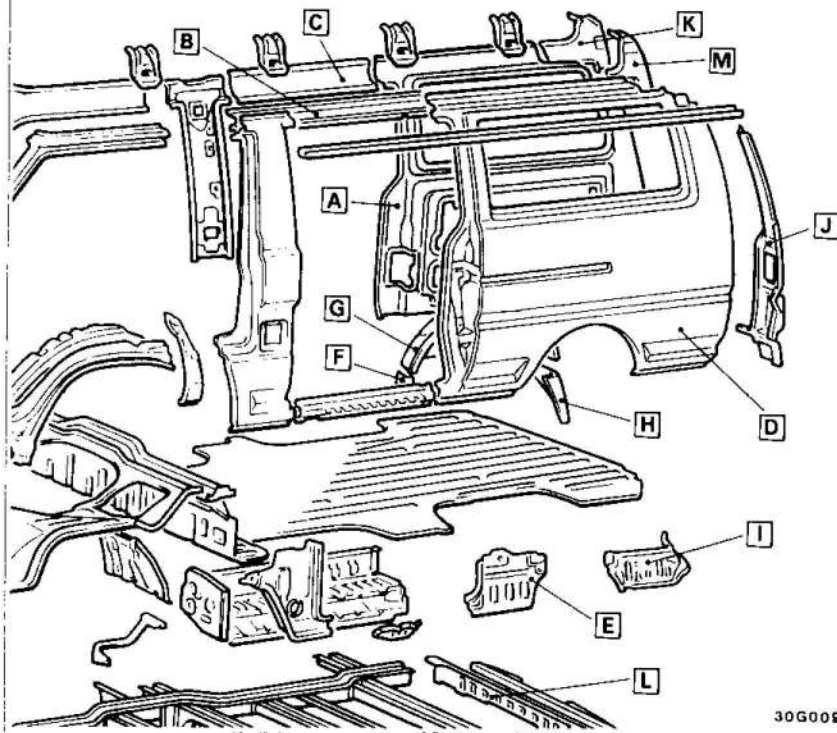
E

NOTE  
For weld points, refer to the fold-out (appendix 10) at the end of this group.

QUARTER PANEL, INNER (Mini-bus of Long Body Vehicles)

REPLACEMENT CONFIGURATION

ASSEMBLY (A)



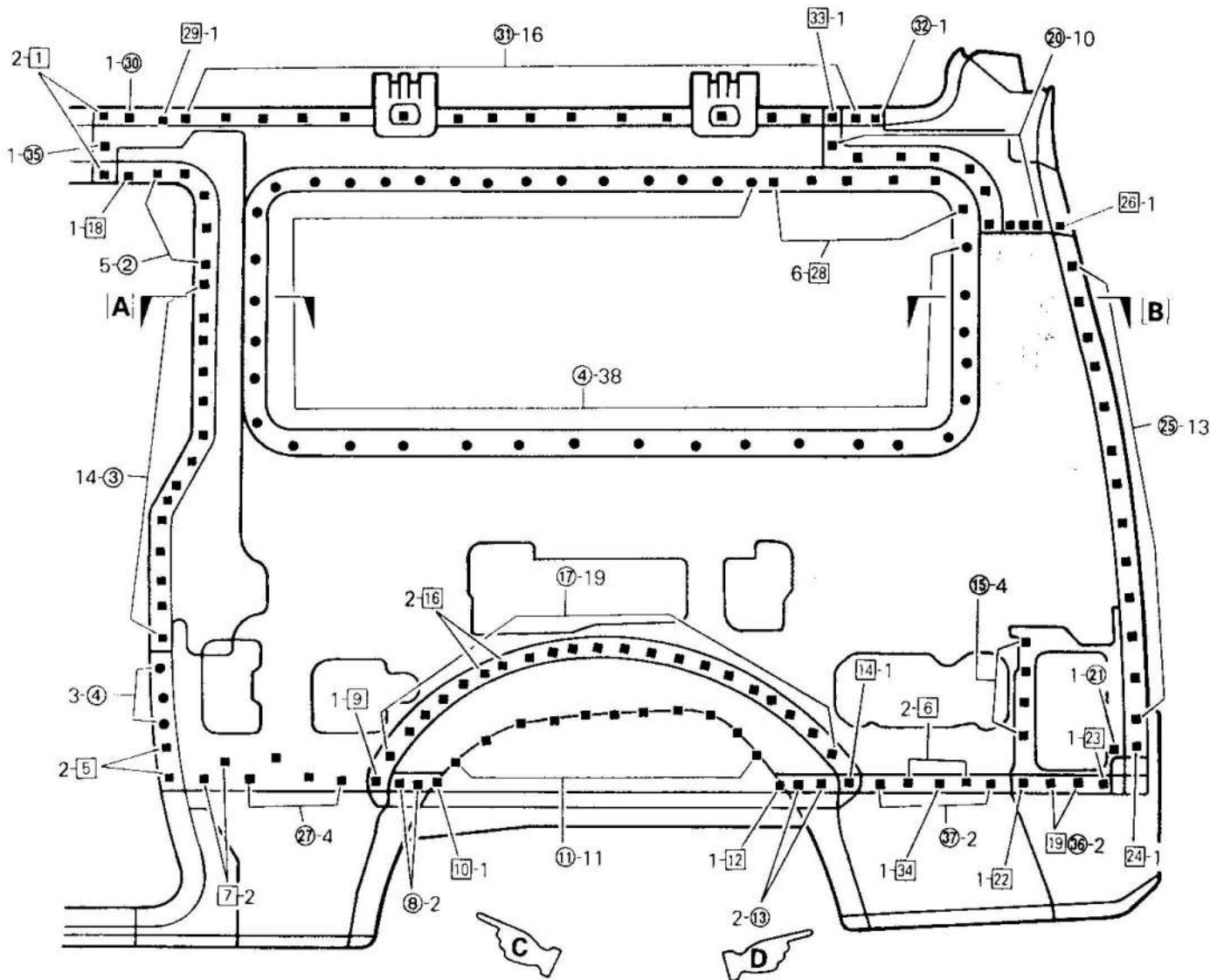
30G0092

PART NAME

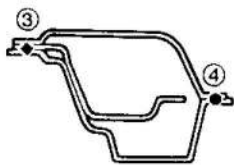
- A Quarter panel, inner
- B Side roof rail, outer
- C Side roof rail, inner
- D Quarter panel, outer
- E Quarter, inner, lower, front
- F Front wheelhouse, outer, lower
- G Rear wheelhouse, inner
- H Rear wheelhouse, outer, lower
- I Quarter, inner, lower, rear
- J Rear quarter outer extension
- K Rear roof rail inner extension
- L Rear end crossmember, inner
- M Rear roof rail outer extension

No.	Welded parts	F	R	No.	Welded parts	F	R
1	A + B + C	2	Plug 2	22	A + I + J ★	1	Plug 1
2	A + D	5	Plug 5	23	A + I + L	1	Plug 1
3	A + D ★	14	Plug 14	24	A + I + L	1	Plug 1
4	A + D	41	41	25	A + J ★	13	Plug 13
5	A + D + E	2	Plug 2	26	A + J + K ★	1	Plug 1
6	A + I ★	2	Plug 2	27	A + E	4	Plug 4
7	A + E ★	2	Plug 2	28	A + D + K	6	Plug 6
8	A + F	2	Plug 2	29	A + B + D	1	Plug 1
9	A + E + G	1	Plug 1	30	A + B ★	1	Plug 1
10	A + D + F	1	Plug 1	31	A + D ★	16	Plug 16
11	A + D	11	Plug 11	32	A + D + M ★	1	Plug 1
12	A + D + H	1	Plug 1	33	A + K + M ★	1	Plug 1
13	A + H	2	Plug 2	34	A + I ★	1	Plug 1
14	A + G + I ★	1	Plug 1	35	A + C ★	1	Plug 1
15	A + J	4	Plug 4	36	A + I R.H.	2	Plug 2
16	A + G ★	2	Plug 2	37	A + G + I	2	Plug 2
17	A + G	19	Plug 19				
18	A + B	1	Plug 1				
19	A + I + J L.H.	2	Plug 2				
20	A + K ★	10	Plug 10				
21	A + L	1	Plug 1				

REPAIR WELDS

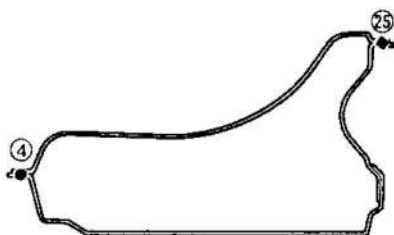


33G0082



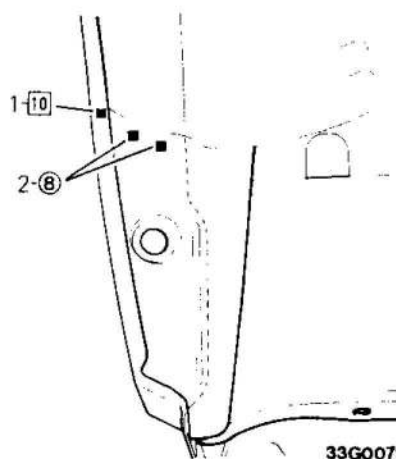
A

33G0047



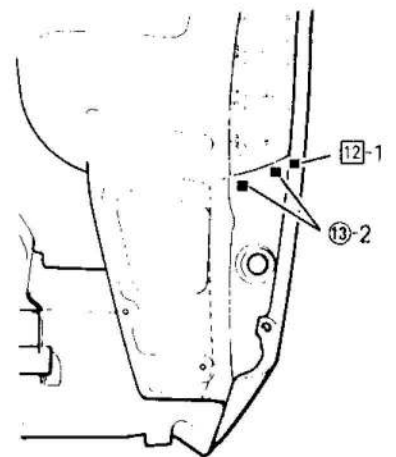
B

33G0052



C

33G0079



D

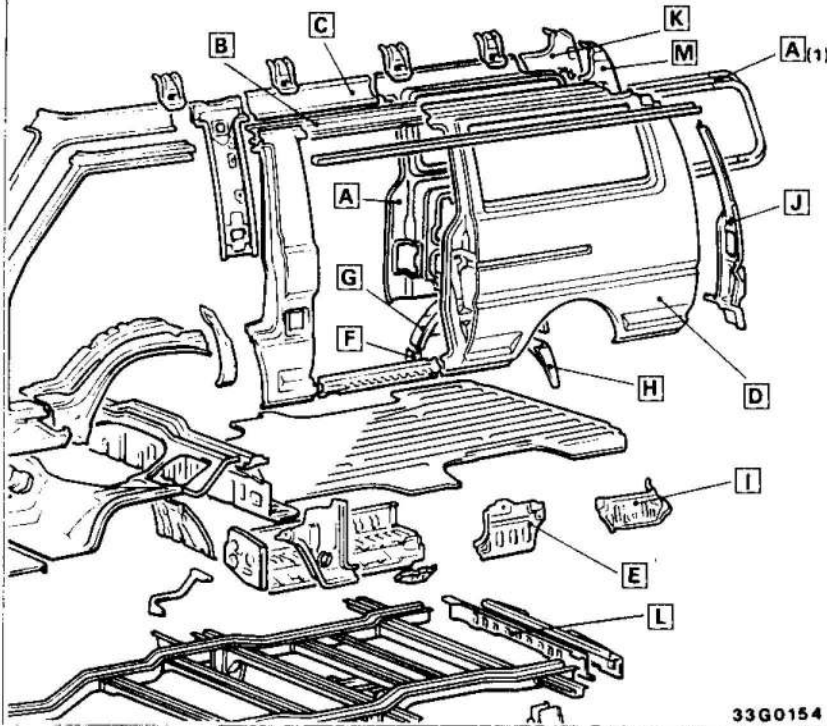
33G0080

QUARTER PANEL, INNER (Panel Van of Long Body Vehicles)

PART NAME

REPLACEMENT CONFIGURATION

ASSEMBLY (A A<sub>(1)</sub>)



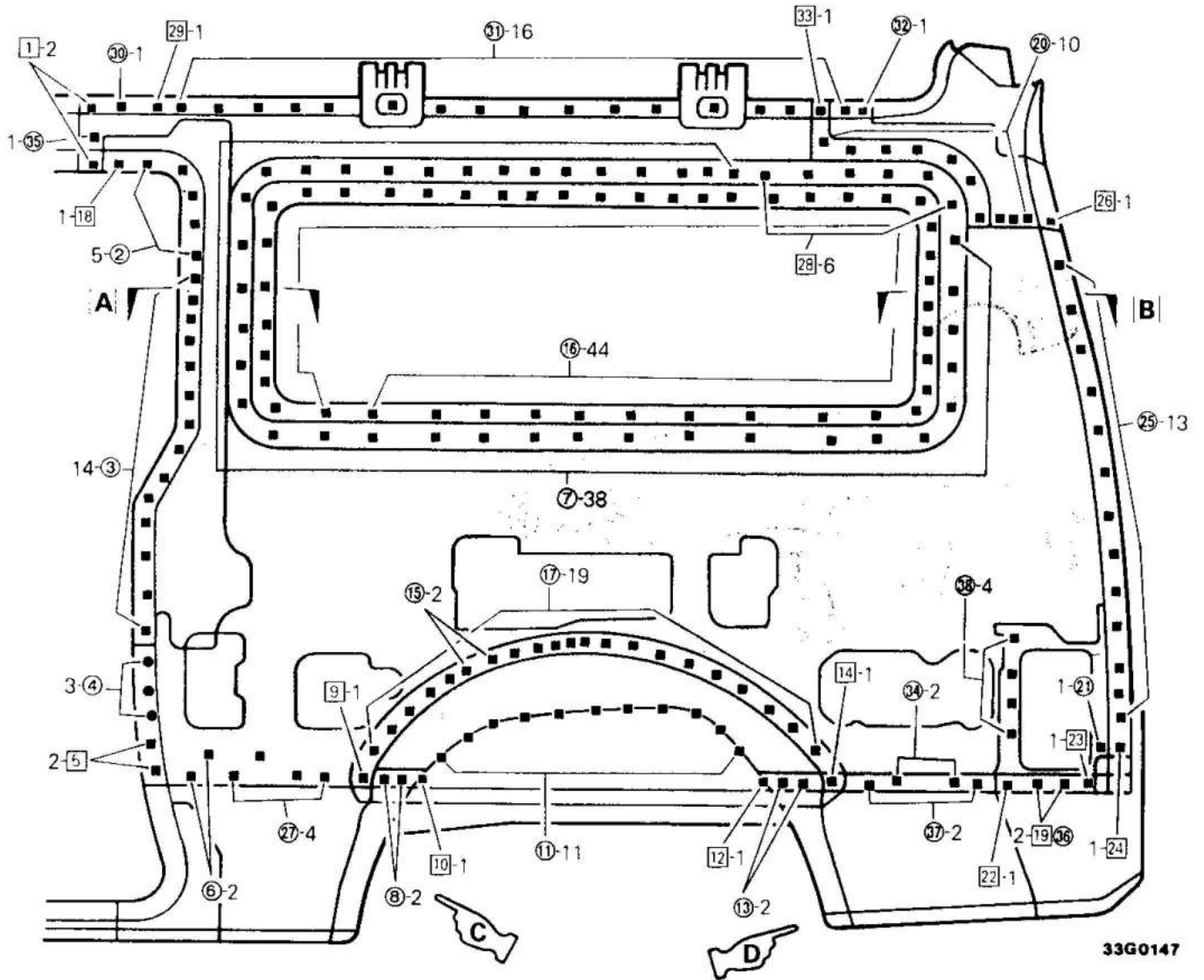
- A** Quarter panel, inner
- A<sub>(1)</sub>** Side window rear frame
- B** Side roof rail, outer
- C** Side roof rail, inner
- D** Quarter panel, outer
- E** Quarter, inner, lower, front
- F** Front wheelhouse, outer, lower
- G** Rear wheelhouse, inner
- H** Rear wheelhouse, outer, lower
- I** Quarter, inner, lower, rear
- J** Rear quarter outer extension
- K** Rear roof rail inner extension
- L** Rear end crossmember, inner
- M** Rear roof rail outer extension

33G0154

No.	Welded parts	F	R
1	A + B + C	2	Plug 2
2	A + D	5	Plug 5
3	A + D ★	14	Plug 14
4	A + D	3	3
5	A + D + E	2	Plug 2
6	A + E	2	Plug 2
7	A + A <sub>(1)</sub>	38	Plug 38
8	A + F	2	Plug 2
9	A + E + G	1	Plug 1
10	A + D + F	1	Plug 1
11	A + D	11	Plug 11
12	A + D + H	1	Plug 1
13	A + H	2	Plug 2
14	A + G + I ★	1	Plug 1
15	A + G	2	Plug 2
16	A <sub>(1)</sub> + D ★	44	Plug 44
17	A + G	19	Plug 19
18	A + B	1	Plug 1
19	A + I + J L.H.	2	Plug 2
20	A + K ★	10	Plug 10
21	A + L	1	Plug 1

No.	Welded parts	F	R
22	A + I + J ★	1	Plug 1
23	A + I + L	1	Plug 1
24	A + I + L	1	Plug 1
25	A + J ★	13	Plug 13
26	A + J + K ★	1	Plug 1
27	A + E	4	Plug 4
28	A + A <sub>(1)</sub> + K	6	Plug 6
29	A + B + D	1	Plug 1
30	A + B ★	1	Plug 1
31	A + D ★	16	Plug 16
32	A + D + M ★	1	Plug 1
33	A + K + M ★	1	Plug 1
34	A + I	2	Plug 2
35	A + C ★	1	Plug 1
36	A + I R.H.	2	Plug 2
37	A + G + I	2	Plug 2
38	A + J	4	Plug 4
39	A + I	2	Plug 2

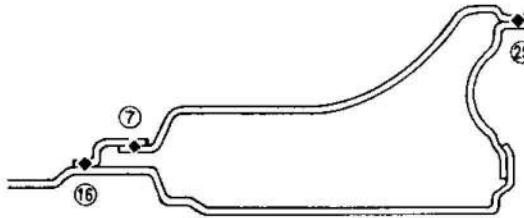
REPAIR WELDS



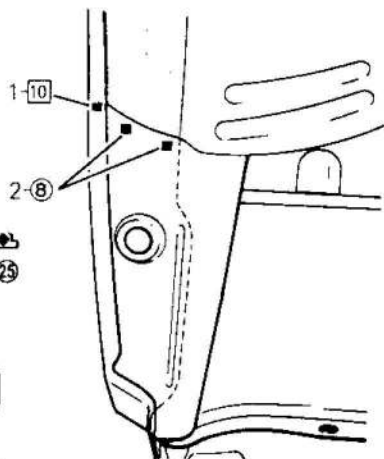
33G0147



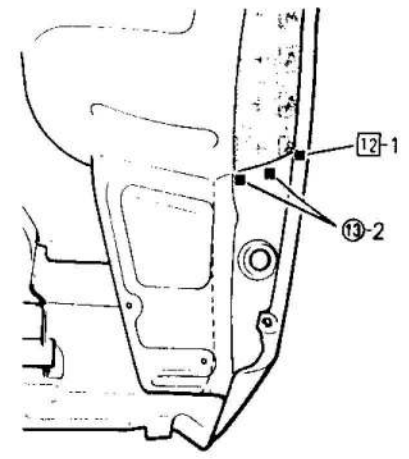
A 33G0140



B 33G0143



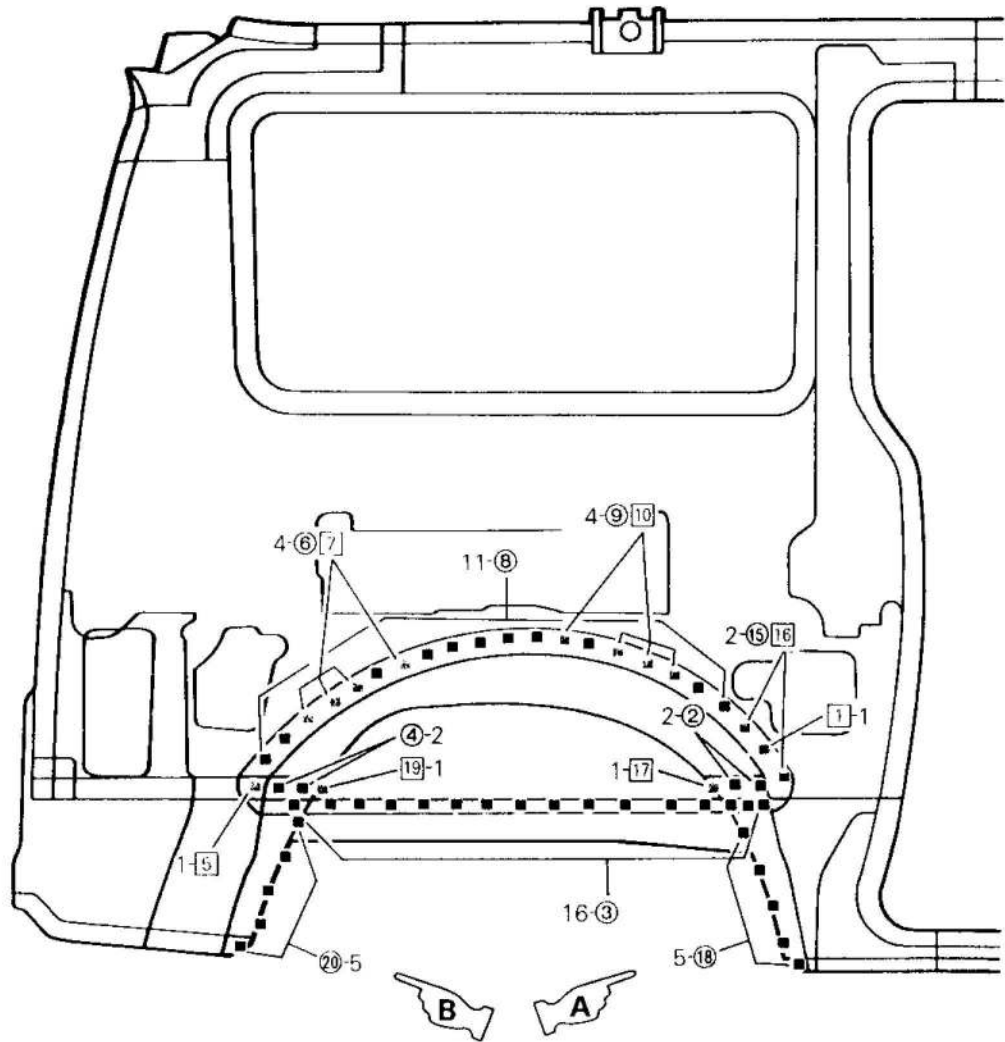
C 33G0079



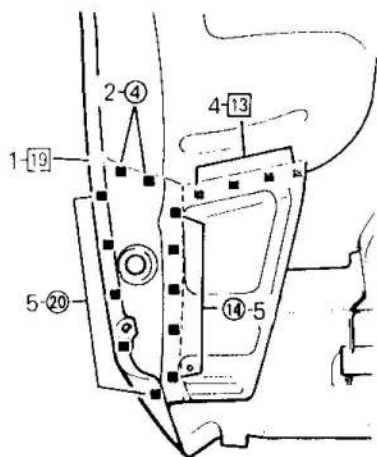
D 33G0080



REPAIR WELDS

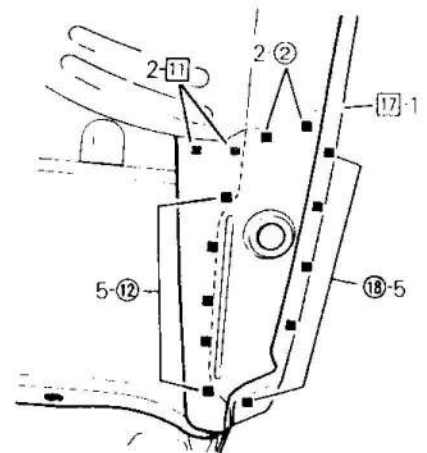


33G0084



33G0086

B



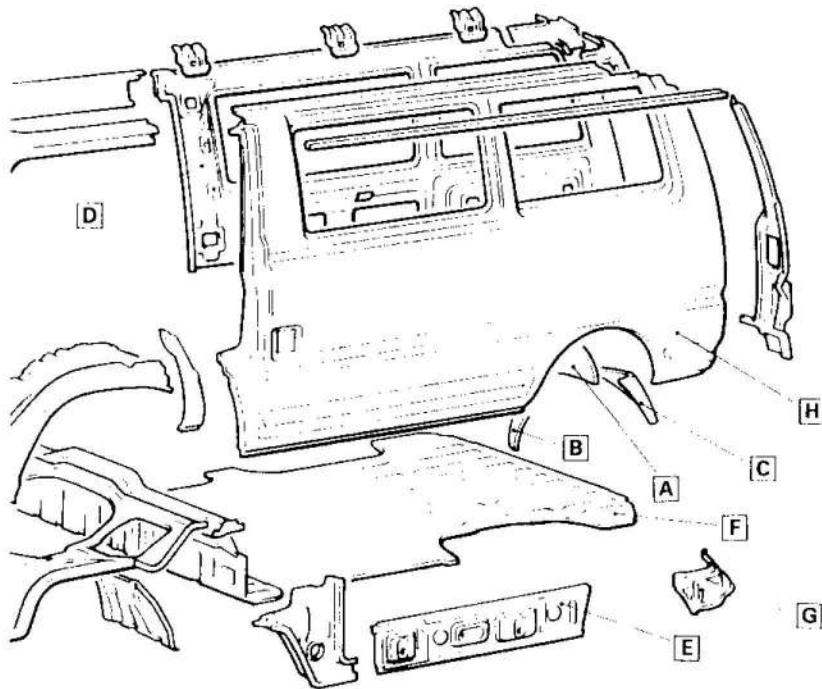
33G0085

A

REAR WHEELHOUSE (Standard Body Vehicles with Four Doors)

REPLACEMENT CONFIGURATION

ASSEMBLY (A B C)



PART NAME

- A Rear wheelhouse, inner
- B Front wheelhouse, outer, lower
- C Rear wheelhouse, outer, lower
- D Quarter panel, inner
- E Quarter, inner, lower, front
- F Rear floor panel
- G Quarter, inner, lower, rear
- H Quarter panel, outer

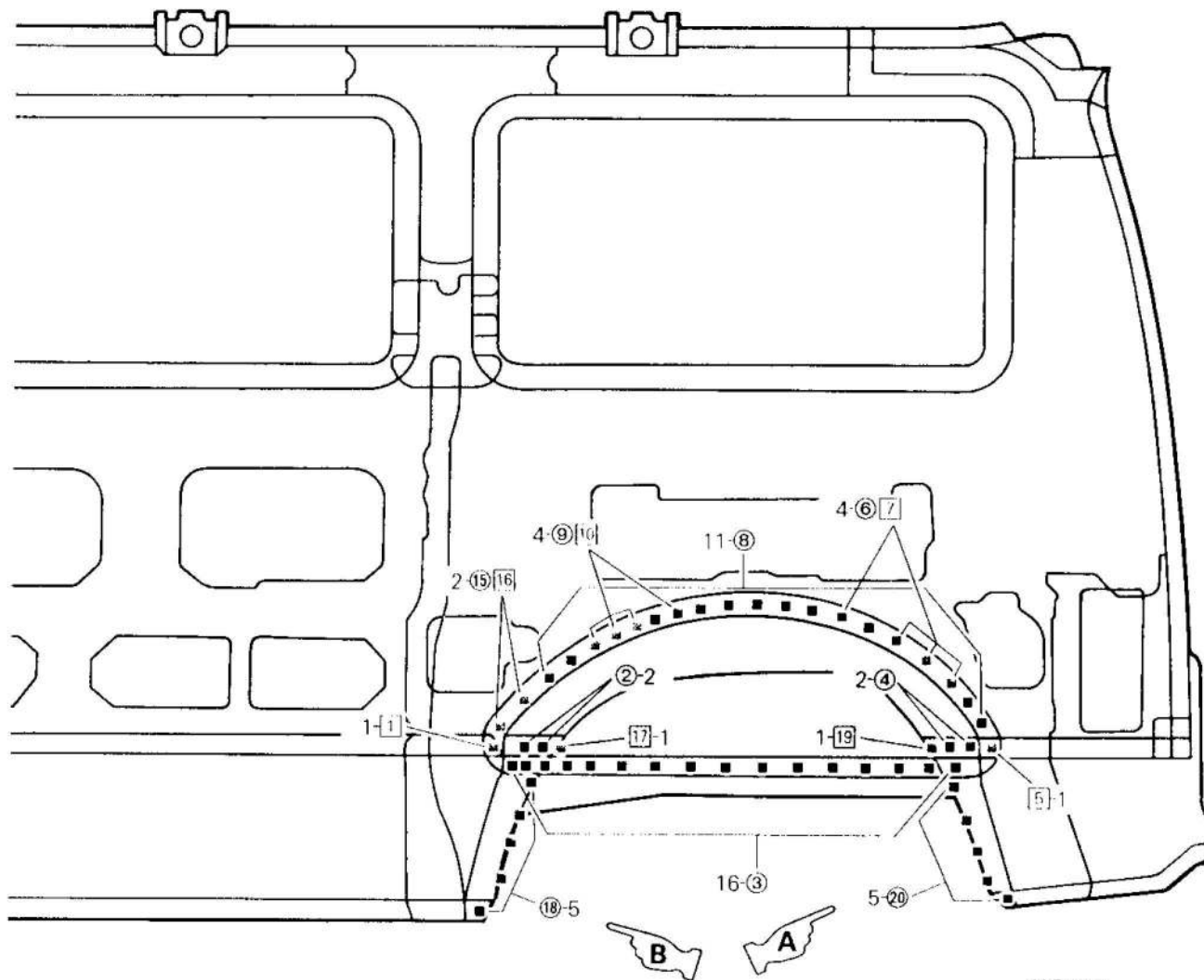
30G0225

No.	Welded parts	F	R	No.	Welded parts	F	R
[1]	A + D + E	1	Plug 1				
[2]	B + D	2	Plug 2				
[3]	A + F	16	Plug 16				
[4]	C + D	2	Plug 2				
[5]	A + D + G	1	Plug 1				
[6]**	A + D	4	Plug 4				
[7]*	A + D	4	Plug 4				
[8]	A + D	11	Plug 11				
[9]**	A + D	4	Plug 4				
[10]*	A + D	4	Plug 4				
[11]	A + B + F	2	Plug 2				
[12]	B + E	5	Plug 5				
[13]	A + C + F	4	Plug 4				
[14]	C + G	5	Plug 5				
[15]**	A + D	2	Plug 2				
[16]*	A + D	2	Plug 2				
[17]	B + D + H	1	Plug 1				
[18]	B + H	5	Plug 5				
[19]	C + D + H	1	Plug 1				
[20]	C + H	5	Plug 5				

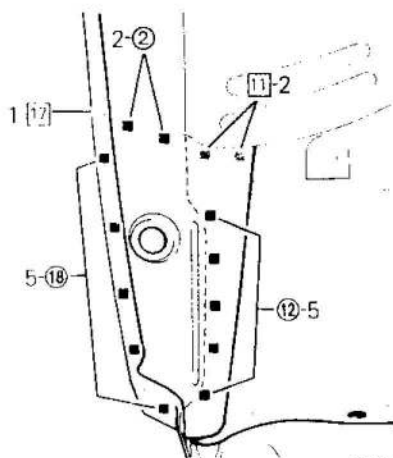
\* Mini-bus  
\*\* Van



REPAIR WELDS

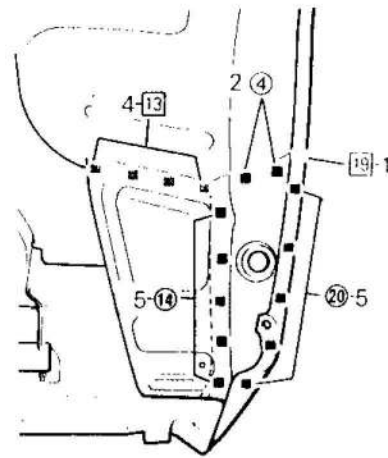


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33G0085

B



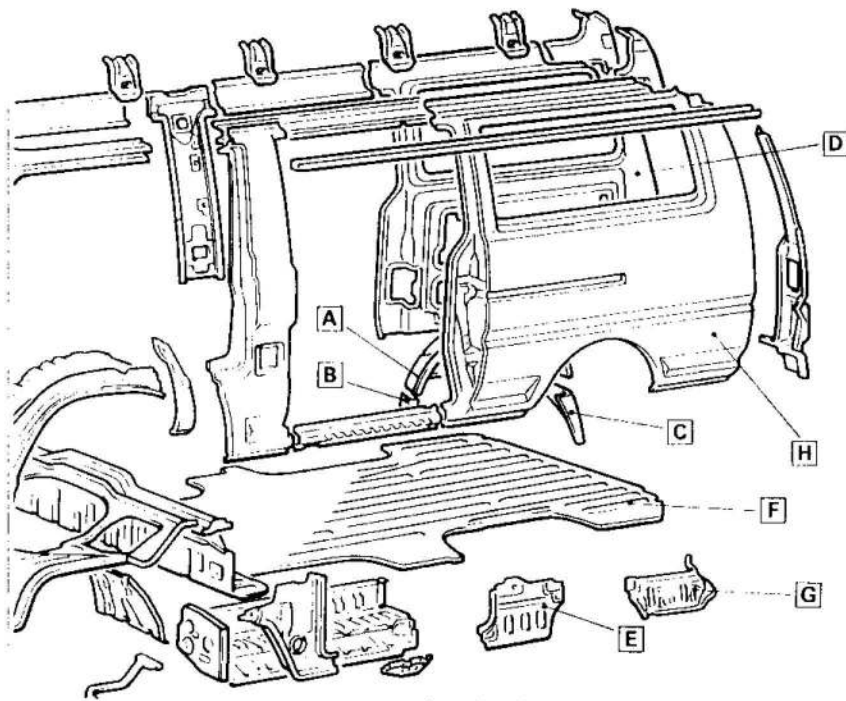
33G0086

A

REAR WHEELHOUSE (Long Body Vehicles)

REPLACEMENT CONFIGURATION

ASSEMBLY (A B C)



PART NAME

- A Rear wheelhouse, inner
- B Front wheelhouse, outer, lower
- C Rear wheelhouse, outer, lower
- D Quarter panel, inner
- E Quarter, inner, lower, front
- F Rear floor panel
- G Quarter, inner, lower, rear
- H Quarter panel, outer

No. Welded parts

- 1 A + D + E
- 2 B + D
- 3 A + F
- 4 C + D
- 5 A + D + G ★
- 6 A + D
- 7 A + D
- 8 A + D ★
- 9 A + B + F
- 10 B + E
- 11 A + C + F
- 12 C + G
- 13 B + D + H
- 14 B + H
- 15 C + D + H
- 16 C + H

F

- 1
- 2
- 16
- 2
- 1
- 19
- 2
- 2
- 2
- 5
- 4
- 5
- 1
- 5
- 1
- 5

R

- Plug 1
- Plug 2
- Plug 16
- Plug 2
- Plug 1
- Plug 19
- Plug 2
- Plug 2
- Plug 2
- Plug 5
- Plug 4
- Plug 5
- Plug 1
- Plug 5
- Plug 1
- Plug 5

No.

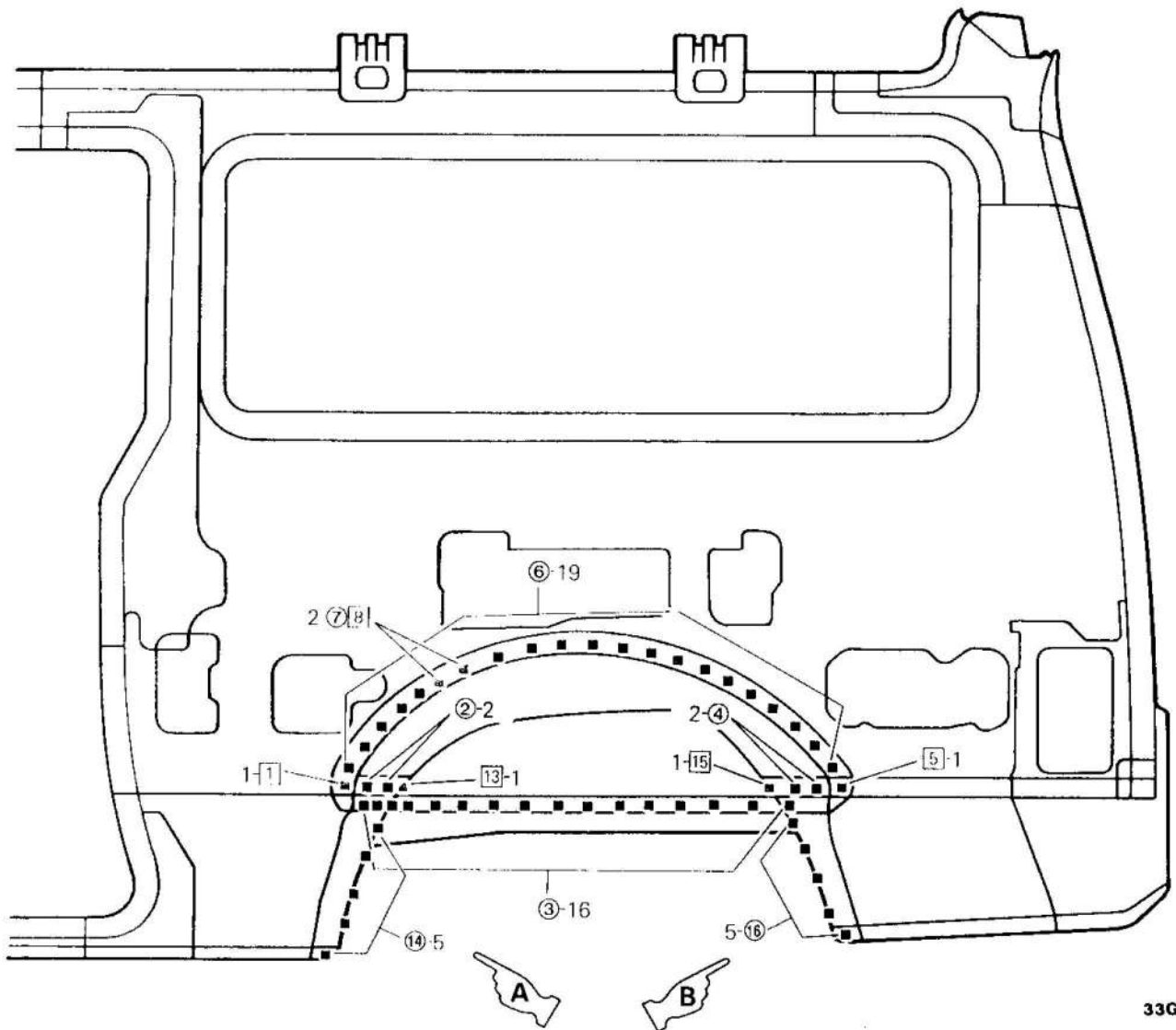
Welded parts

F

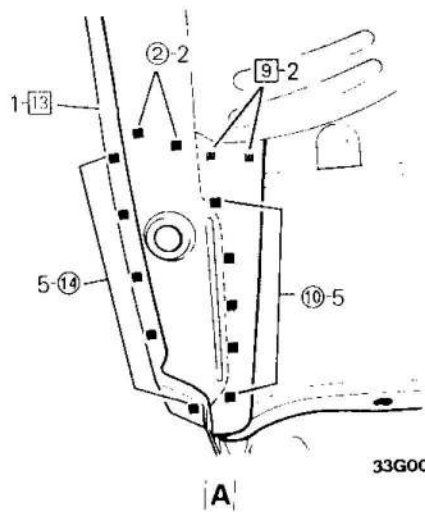
R

\* Mini-bus  
\*\* Van

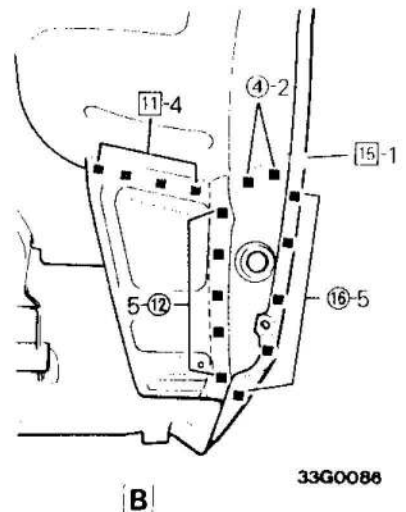
REPAIR WELDS



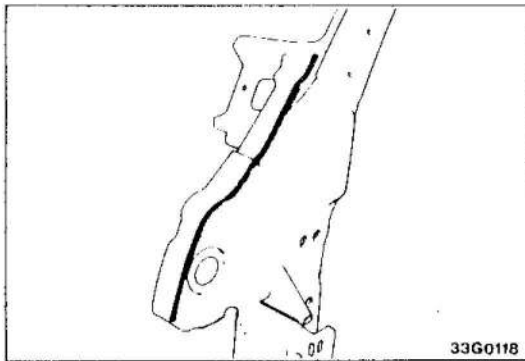
33G0087



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33G0086



## FRONT PANEL

### NOTES WITH REGARD TO REPAIR WORK

#### Installation

- (1) Apply a coating of body sealant at the places shown in the figure (left and right sides).

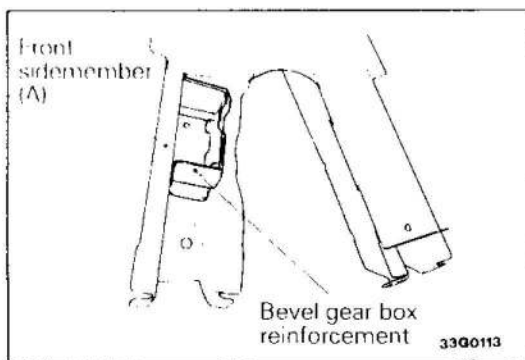
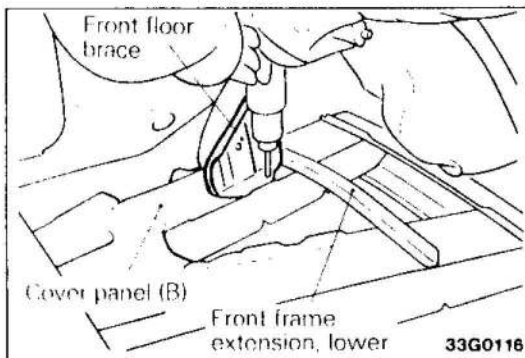
## FRONT SIDEMEMBER

### NOTES WITH REGARD TO REPAIR WORK

- (1) The front sidemember serves as a body reinforcement and as an impact-absorbing component, and so is an important component part.  
If this part is cut, note that it must not be cut at any place other where specified.
- (2) Care must be taken when cutting the front sidemember (A), because the bevel gear box reinforcement is installed (left side for the L.H. drive vehicles, right side for the R.H. drive vehicles).

#### Removal

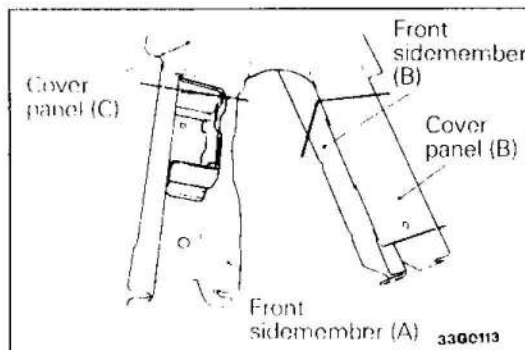
- (1) Remove the front floor brace from the cover panel (B).
- (2) Remove the front frame extension lower panel.



- (3) Remove the cover panel (A).

#### NOTE

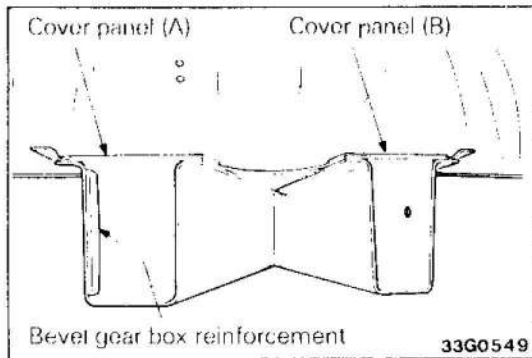
The reason for this step is so as to make clear the place to be cut, because the bevel gear box reinforcement is installed inside the front sidemember (A). The figure shows the cover panel (A) removed.



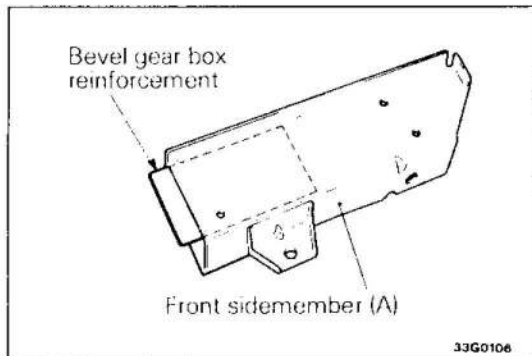
- (4) When cutting front sidemembers (A) and (B) and the cover panel (B), cut at the front side of the cover panel (C).

#### NOTE

Because this is to be butt welded, cut at right angles to the sidemember.



- (5) Cut away the spot weld points still remaining at the body side for the following panels, and remove the panels.
- Bevel gear box reinforcement
  - Cover panel (A)
  - Cover panel (B)

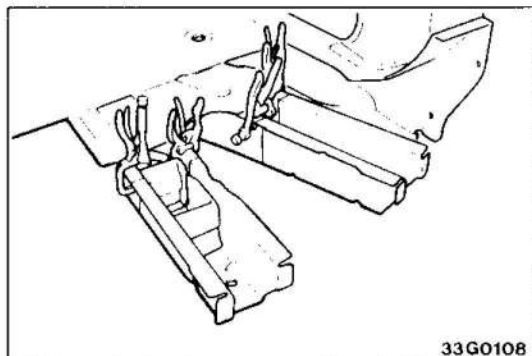


**Installation**

- (1) Make measurements of the cut locations for front sidemembers (A) and (B) and each body part, and mark lines on the new front sidemembers (A) and (B).
- (2) Cut the new front sidemembers (A) and (B) along the marked lines.

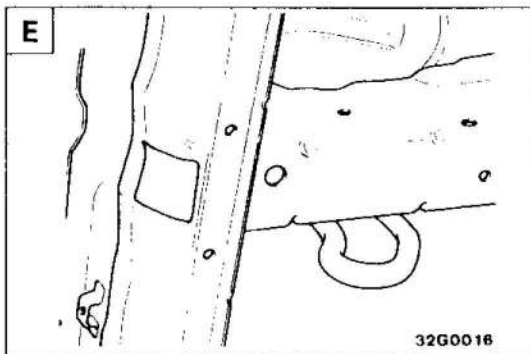
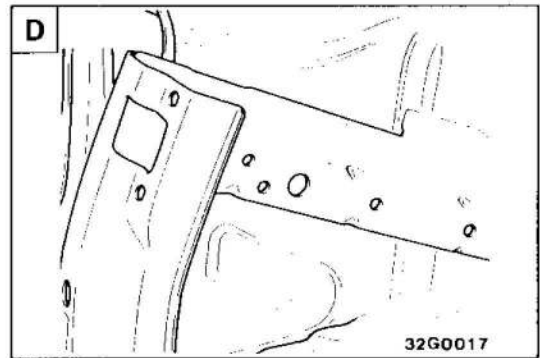
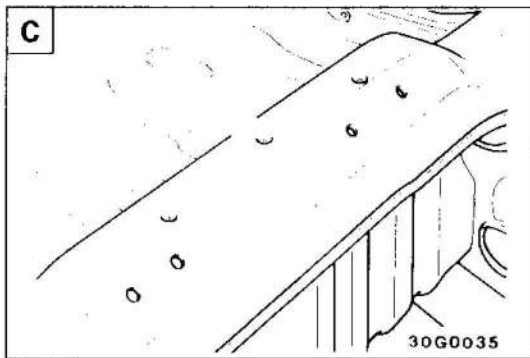
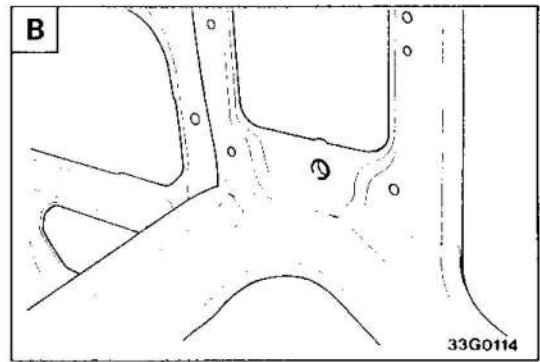
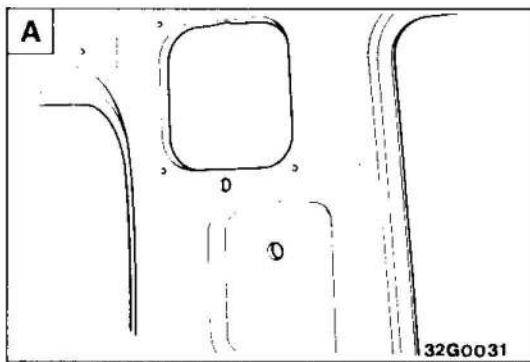
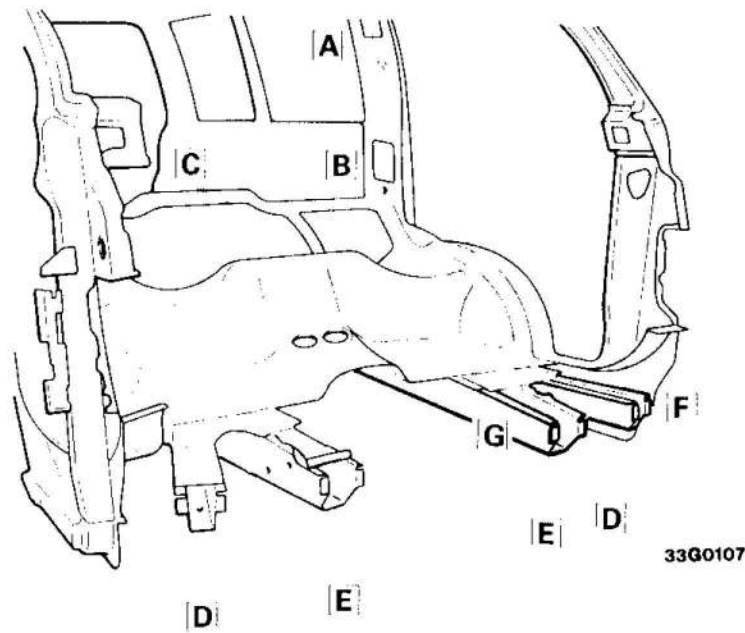
**Caution**

- Care must be taken not to cut the bevel gear box reinforcement of the front sidemember (A).

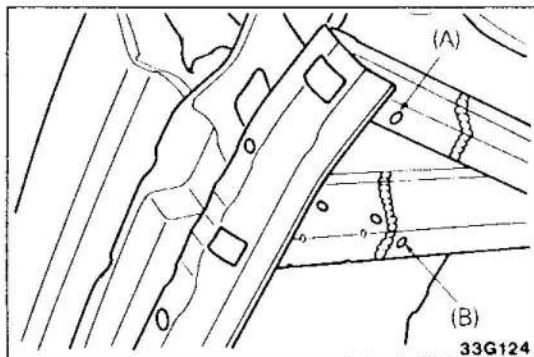


- (3) Temporarily install the cut front sidemembers (A) and (B) to the body.

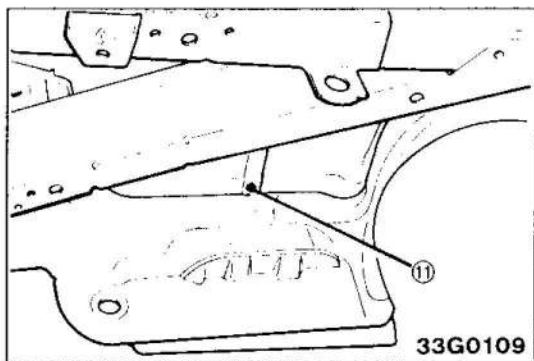
(4) Measure at the places indicated in the figure and confirm that the installation positions are the same for the left and right sidemembers (A) and (B).



- A** Front seat belt mounting hole
- B** Front seat belt retractor mounting hole
- C** Front body centre point reference location
- D** Front sidemember (B) locating hole
- E** Front sidemember (A) locating hole
- F** Front sidemember (B) flange corner
- G** Front sidemember (A) flange corner



- (5) Install the cover panel (A), as well as the front frame extension lower panel and the front floor brace.
- (6) Using the holes indicated in the figure, after welding is completed spray a liberal amount of anti-corrosion agent.
  - (A): Front sidemember (B) locating hole
  - (B): Front sidemember (A) locating hole



**FRONT FLOOR**

**NOTES WITH REGARD TO REPAIR WORK**

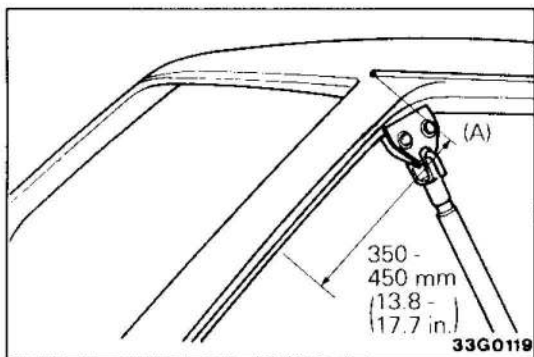
**Removal**

- (1) Because the spot welds (one point each) at both ends of weld point (1) cannot be seen from inside the vehicle, cut away the spot welds from the under side of the body.

**FRONT PILLAR**

**NOTES WITH REGARD TO REPAIR WORK**

- (1) Because the harness, etc. noted below are in the front pillar, they must be removed before cutting the pillar.
  - Antenna and antenna feeder wire
- (2) For the front pillar, the outer panel and inner panel should be cut and welded at different places in order to maintain strength.

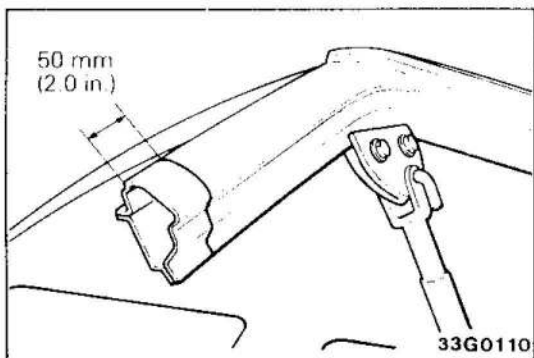


**Removal**

- (1) Cut the front pillar at a place 350 - 450 mm (13.8 - 17.7 in.) downward from the drip channel lower edge (A).

**Caution**

- Because this is to be butt welded, cut at right angles to the pillar.



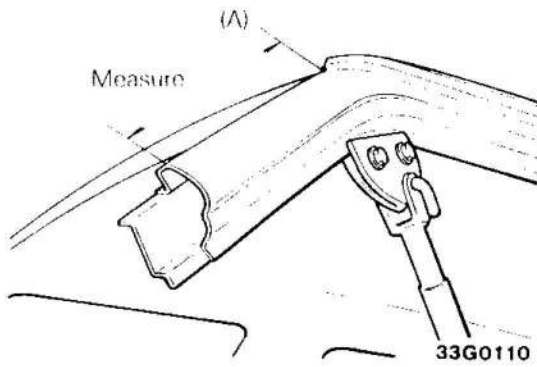
- (2) Cut only the outer panel, cutting it at a place 50 mm (2.0 in.) upward from the cut part of the pillar.

**Caution**

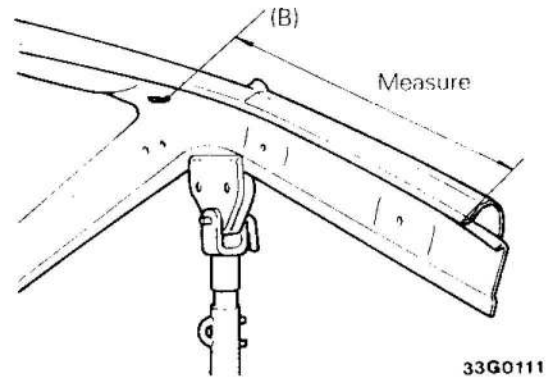
- Because this is to be butt welded, cut at right angles to the pillar.
- If the inner panel is damaged by cutting the outer panel, repair by MIG arc welding.

**Installation**

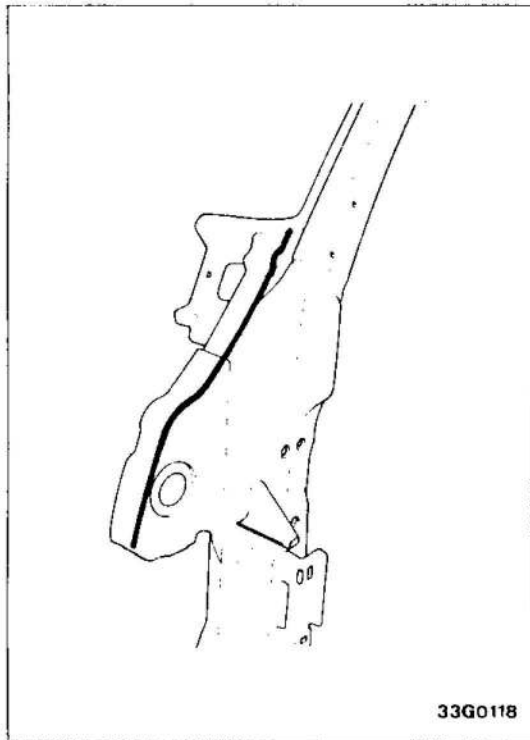
- (1) Measure the pillar cut position (body side), and mark the new front pillar assembly.
- The outer panel uses the drip channel lower edge (A).
  - The inner panel uses the harness routing hole lower side (B).



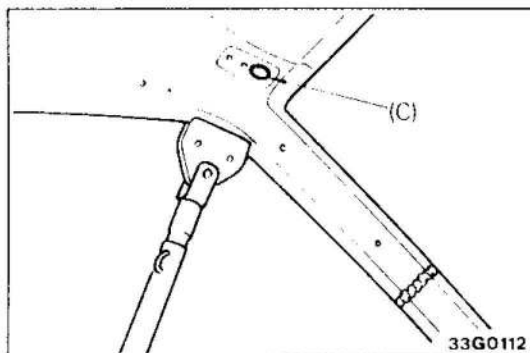
Outer panel



Inner panel



- (2) Apply body sealant where shown in the figure.



- (3) Using the harness routing hole (C) shown in the figure, spray a liberal amount of anti-corrosion agent.

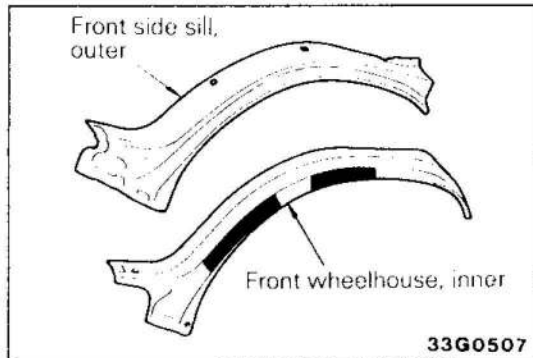


**FRONT SIDE SILL**

**NOTES WITH REGARD TO REPAIR WORK**

Install the front side sill outer panel and the front wheelhouse inner panel to the body after assembling them to the sub-assembly condition.

Note that the front wheelhouse inner panel is not installed to the standard body vehicles for General Export.



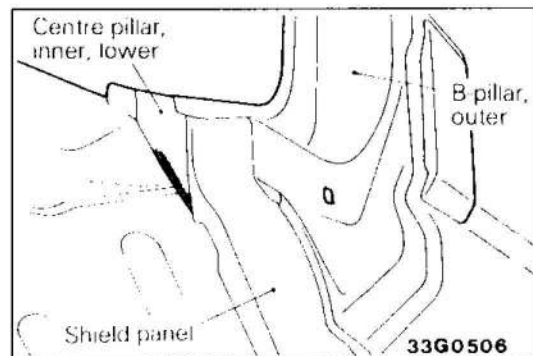
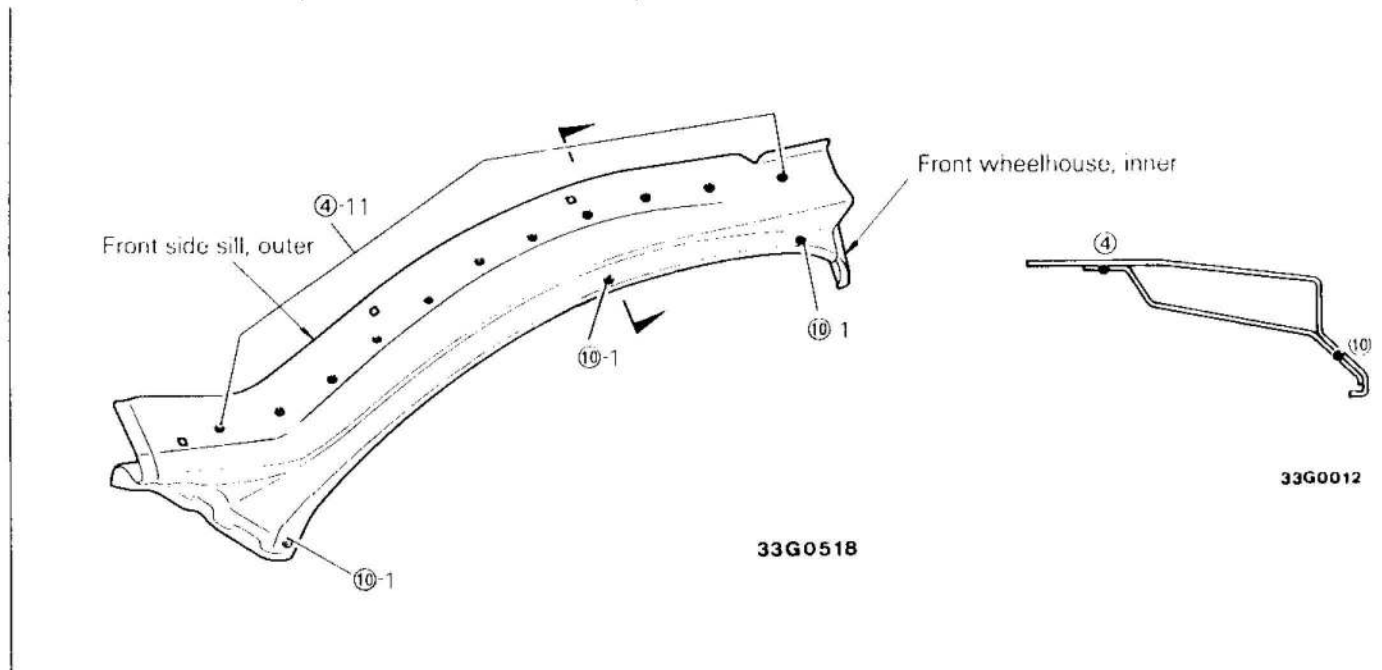
**Installation**

(1) Apply drying sealant where shown in the figure.

**Caution**

- Drying sealant must not be applied near spot weld points ⑩ (three places).

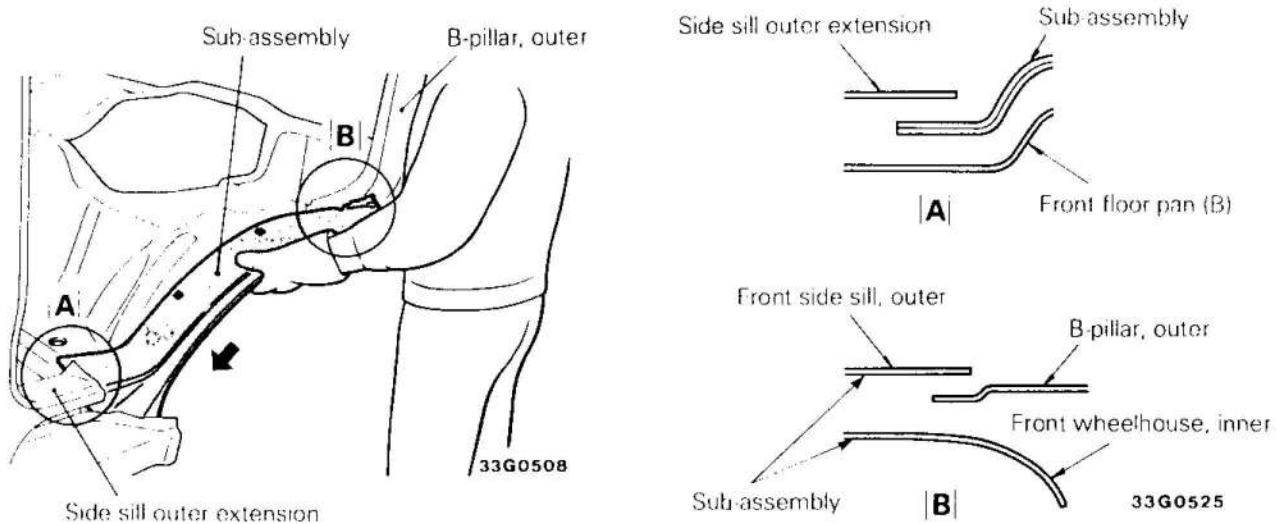
(2) Spot weld the ④ and ⑩ weld points, and then assemble the new front side sill outer panel and front wheelhouse inner panel to the sub-assembly form.



(3) Apply body sealant where shown in the figure.

(4) Install the sub assembly to the body as described below.

- Insert the front side of the sub-assembly below the side sill outer extension, and then push the entire sub-assembly in the forward direction.
- For the sub-assembly rear side, insert the front side sill outer panel and the front wheelhouse inner panel so that the B-pillar outer panel is between them.

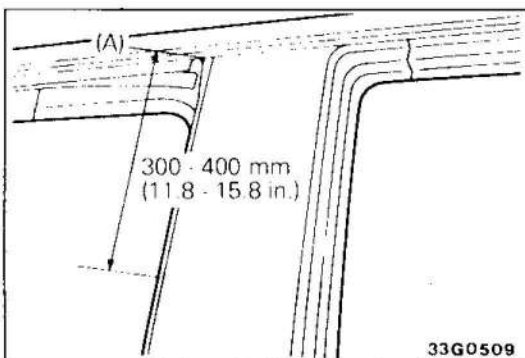


## B-PILLAR, OUTER

### NOTES WITH REGARD TO REPAIR WORK

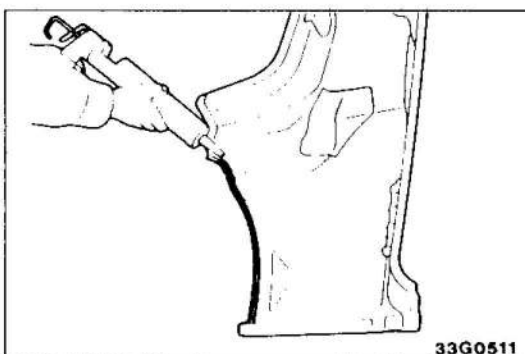
Because the harness, etc. noted below are in the B-pillar, they must be removed before cutting the pillar.

- Roof harness (right)
- Drain hoses (left and right) ... Models with sunroof



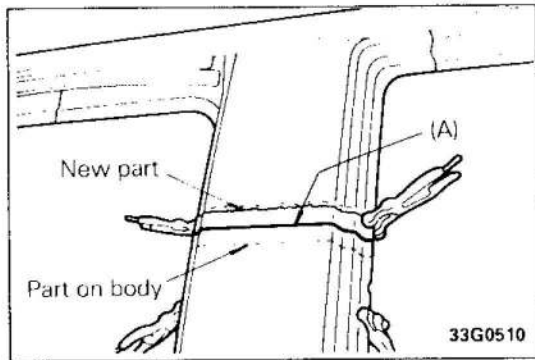
### Removal

- (1) Make a rough cutting of the B-pillar outer panel, at a place 300 - 400 mm (11.8 - 15.8 in.) downward from the drip channel lower end (A), allowing a margin for overlapping.

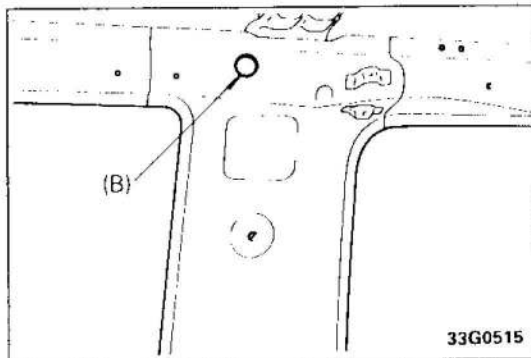


### Installation

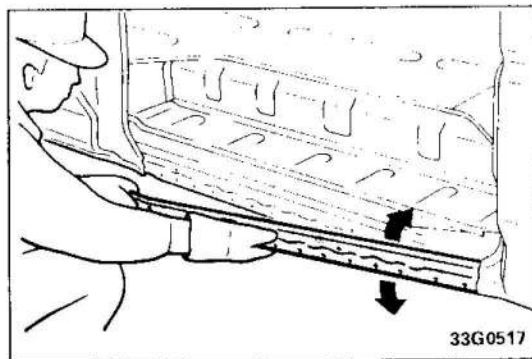
- (1) Apply a coating of body sealant where shown in the figure.



- (2) Make a rough cutting of the new B-pillar outer panel, allowing a margin for overlapping, and temporarily install to the body.
- (3) Cut both the new and old parts at the same time at the centre (A) of the overlapped part.



- (4) Spray a liberal amount of anti-corrosion agent after the welding is completed, using the harness routing hole (B) shown in the figure.

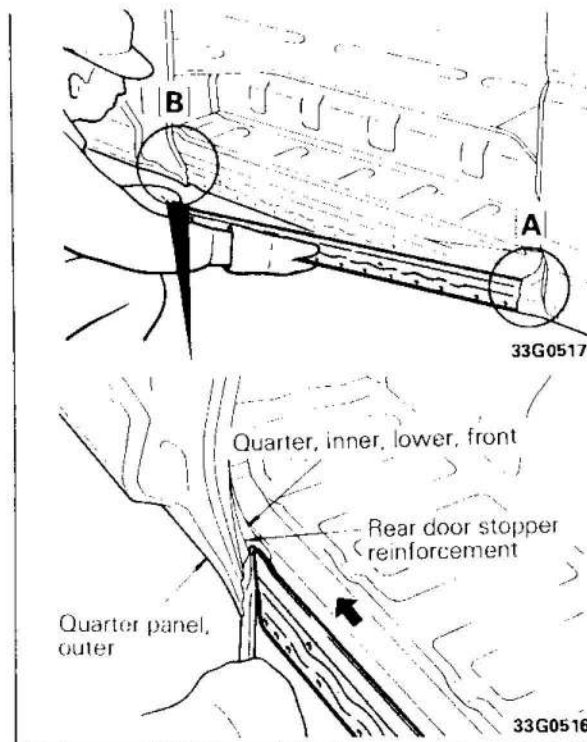


**REAR SIDE SILL**

**NOTES WITH REGARD TO REPAIR WORK**

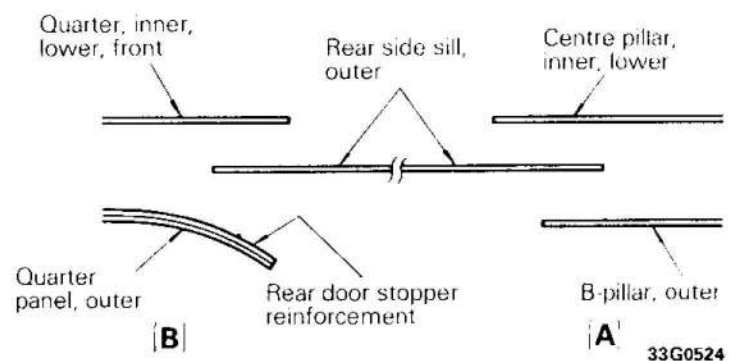
**Removal**

- (1) Remove the rear side sill outer panel by following the procedures described below.
  - Remove the rear side of the rear side sill outer panel downward.
  - Holding the rear side of the rear side sill outer panel, pull the front side out by moving it up and down.



**Installation**

- (1) Install the new rear side sill outer panel by following the procedures described below.
  - Insert the front side of the rear side sill outer panel at the inner side of the B-pillar outer panel.
  - Pull the quarter outer panel and the rear door stopper reinforcement outward by using a chisel, and then mount the rear side of the rear side sill outer panel to the body. Then move the entire rear side sill outer panel backward to the specified position.



**QUARTER PANEL, OUTER**

**NOTES WITH REGARD TO REPAIR WORK**

Because the harness, etc. noted below are in the B-pillar and gate pillar, they must be removed before cutting the pillar.

- Heater ducts and roof harness
- Drain hose ..... Models with sunroof } - B-pillar
- Drain hoses ..... Models with sunroof } - Gate pillar
- Roof harnesses
- Rear wiper tube and hose (right) ..... Models with tailgate wiper

**Removal**

**Mini-bus and Window van**

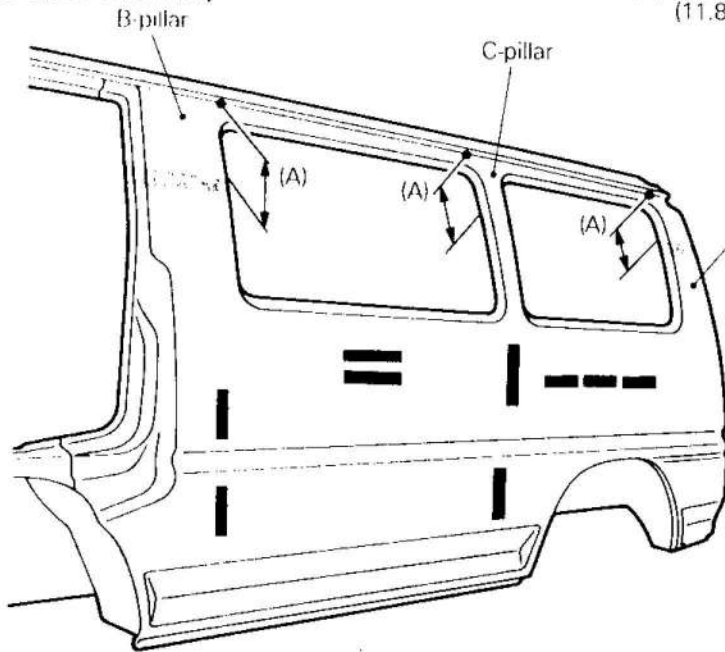
(1) Use a gas burner to heat the place where drying sealant is to be applied, and then separate the outer panel from the inner panel.

**Caution**

- Care must be taken so that there is no distortion of the panel remaining at the body side.
- Because gas is generated, a protection mask should be worn, and ventilation should be good.

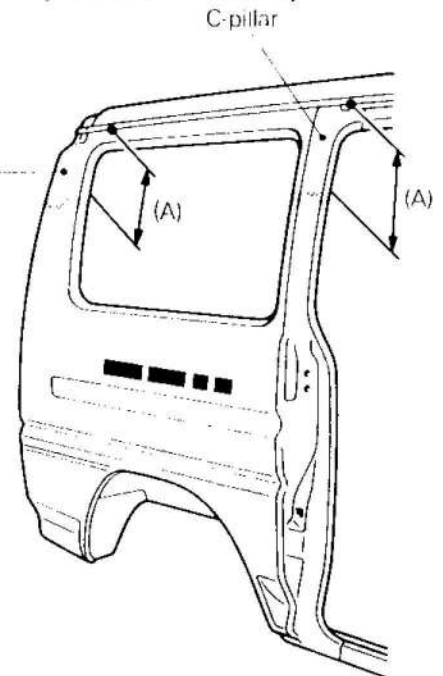
(2) Cut the outer panel of each pillar at a position 300 - 400 mm (11.8 - 15.8 in.) downward from the drip channel lower edge (A).

**Type A  
(four door models)**



(A) 300 - 400 mm  
(11.8 - 15.8 in.)

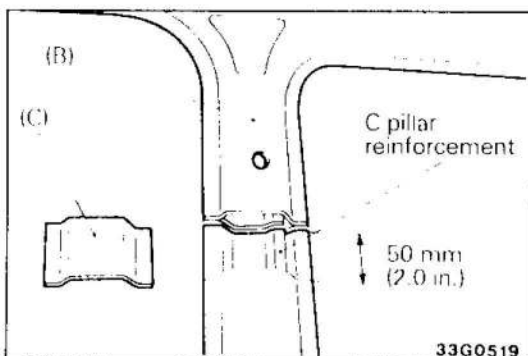
**Type B  
(five door models)**



■ Drying sealant (also applicable to Panel van)

33G0531

33G0530



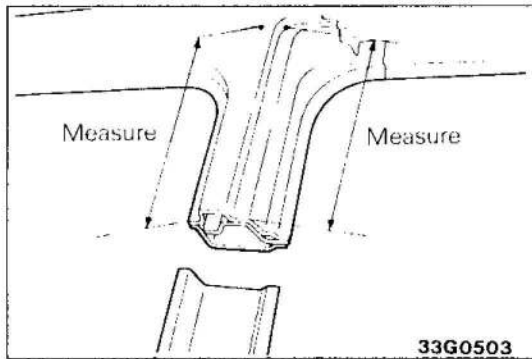
33G0519

(3) Cut as described below, for the type B quarter panel, because there is a reinforcement in the C-pillar (B) shown in the figure.

- Cut the C-pillar inner panel together with the outer panel.
- Cut only the inner panel at a place 50 mm (2.0 in.) downward from the cut part of the pillar.

**NOTE**

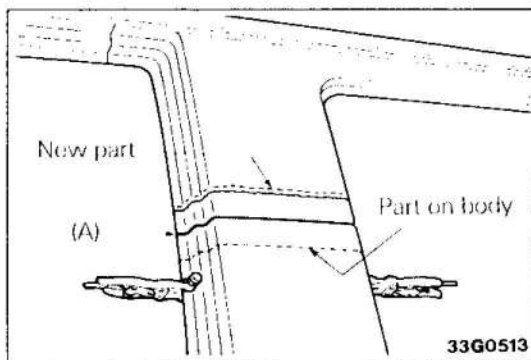
The cut inner panel (C) will be reused, and for that reason it should be kept.



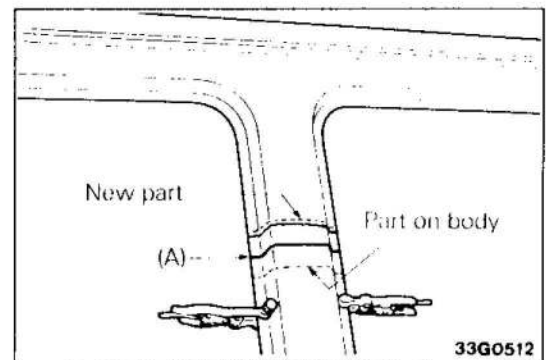
**Installation**

- (1) For the type B quarter panel, measure the cutting position of the C-pillar, and make a mark on the new part.
- (2) Cut the new C-pillar along the marked line.

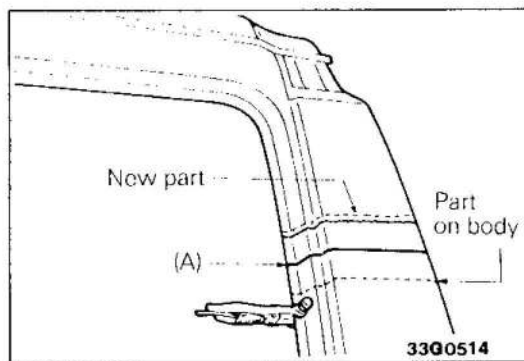
- (3) Make a rough cutting of the other new pillars, leaving a margin for overlapping, and temporarily mount to the body.
- (4) Cut both the new and old parts at the same time at the centre (A) of the overlapped part.



**B-pillar, outer**



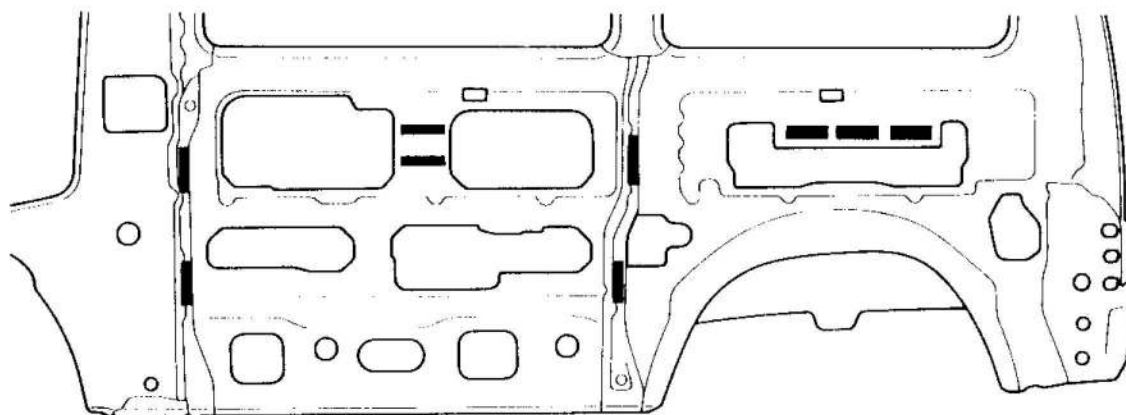
**C-pillar, outer (type A quarter panel)**



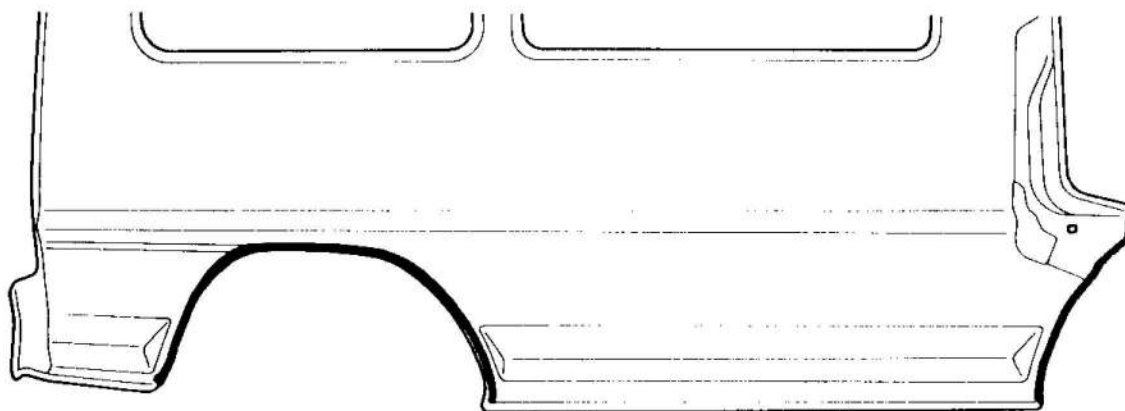
**Gate pillar**

- (5) Apply a coating of drying sealant at the body side at the places indicated in the figure.
- (6) Apply a coating of body sealant to the new part at the places indicated in the figure.

**Type A**

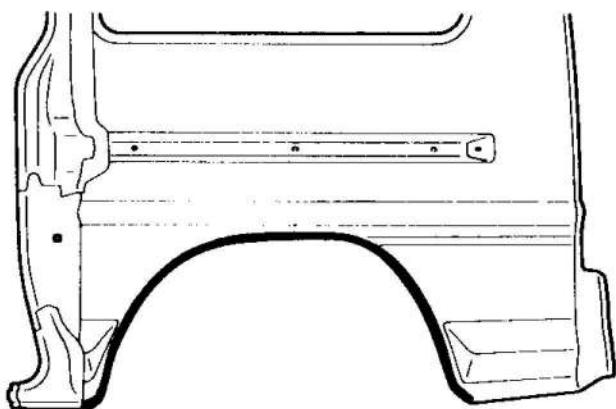


33G0528

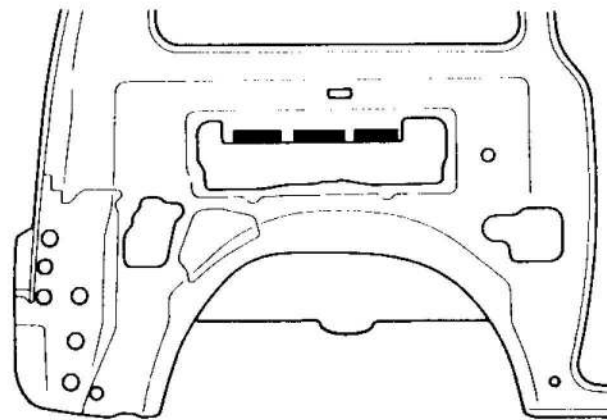


33G0529

**Type B**



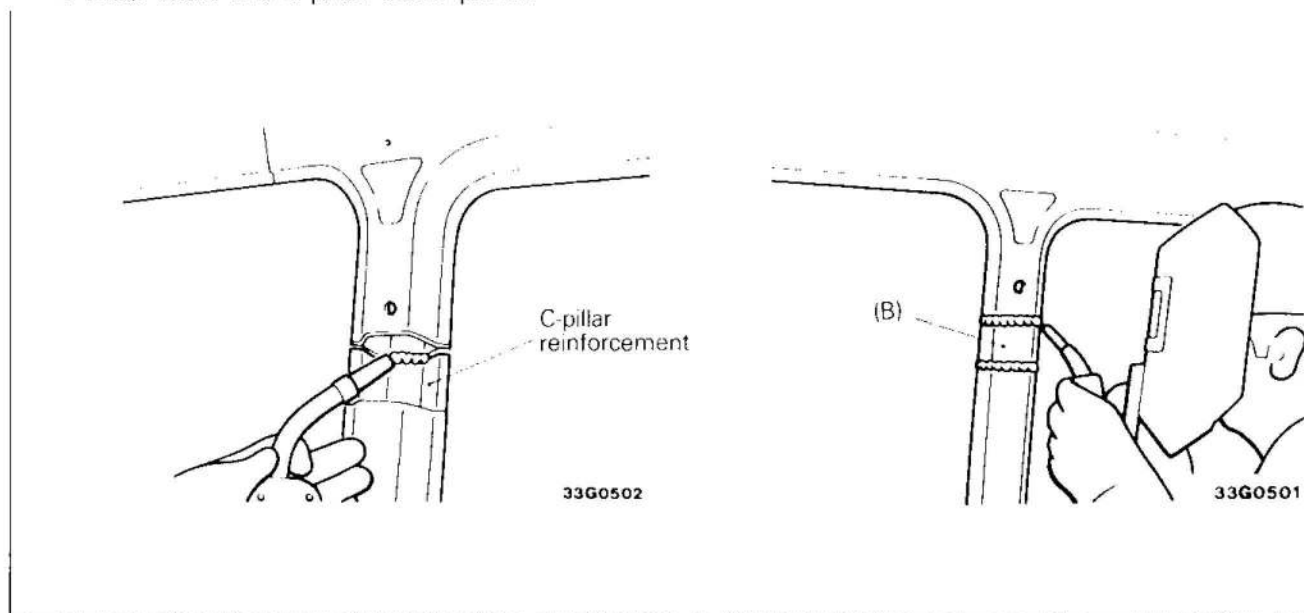
330527



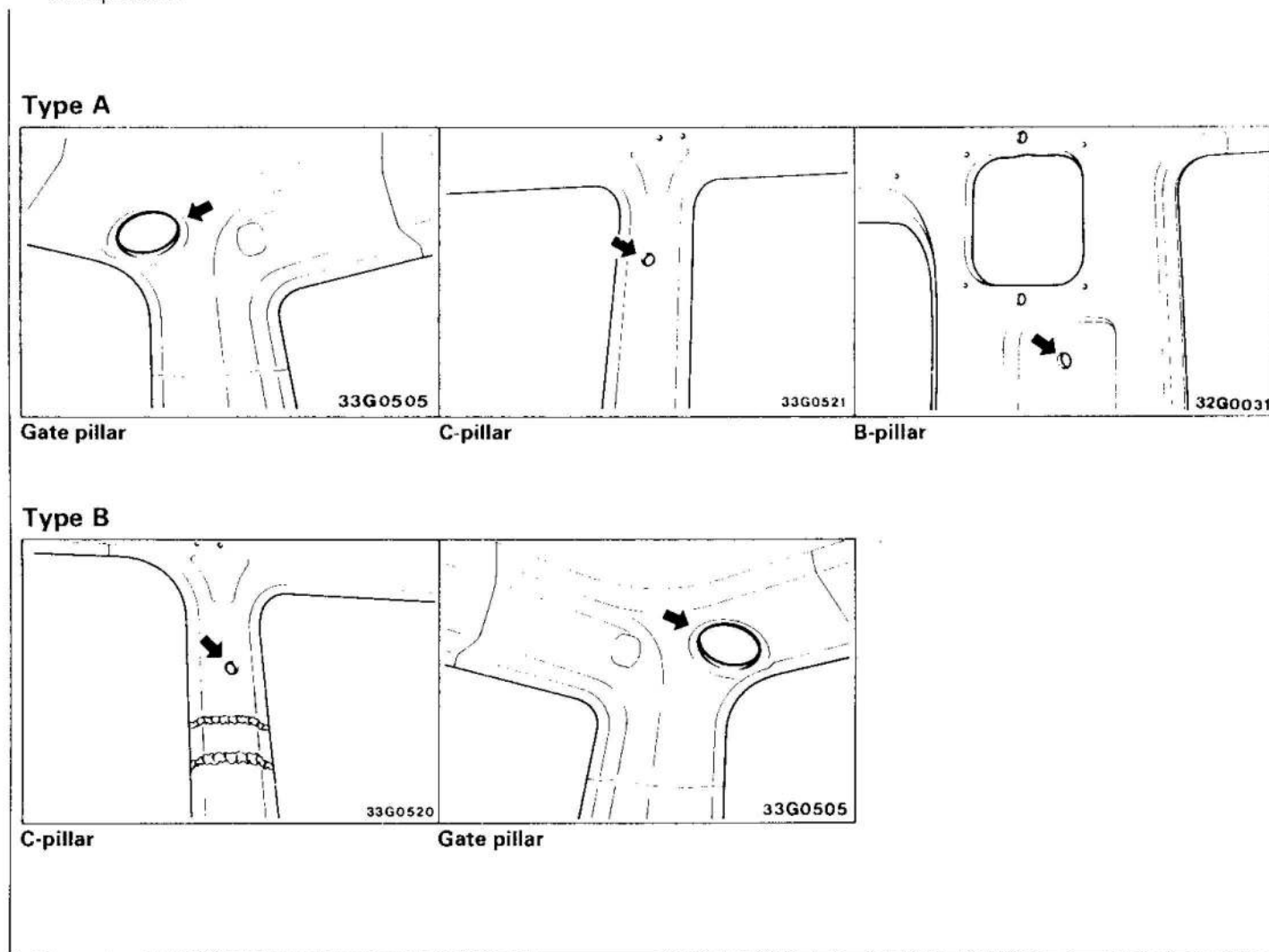
33G0526

: Drying sealant  
 : Body sealant (also applicable to Panel van)

- (7) For the type B quarter panel, butt weld the cut part of the C-pillar.
- Butt weld the C-pillar reinforcement from the vehicle interior.
  - Butt weld the inner panel (B) cut away in step (3) of "Removal".
  - Butt weld the C-pillar outer panel.



- (8) Using the holes indicated in the figures, spray a liberal amount of anti-corrosion agent after welding is completed.



**REAR QUARTER OUTER EXTENSION****NOTES WITH REGARD TO REPAIR WORK**

Because the harness, etc. noted below are in the gate pillar, they must be removed before cutting the pillar.

- Drain hoses ..... Models with sunroof
- Roof harnesses
- Rear wiper tube and hose (right) ..... Models with tailgate wiper

**Installation**

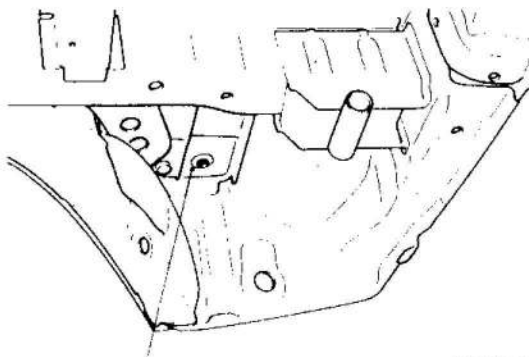
- (1) Install the new rear quarter outer extension to the body by following the procedures below.
  - Insert the upper side (gate pillar) of the rear quarter outer extension to the inner side of the body panel.
  - Pull the lower side of the quarter outer panel outward, and insert the extension lower side to the inner side of the quarter outer panel.



33G0533

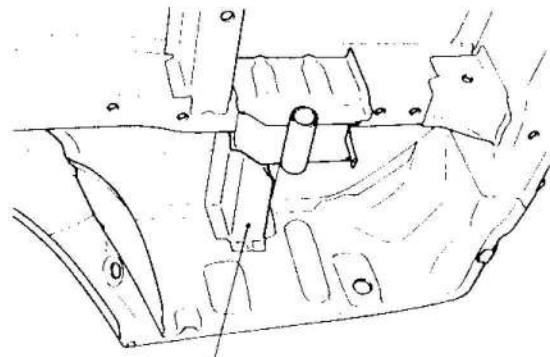
**REAR FLOOR****NOTES WITH REGARD TO REPAIR WORK**

- (1) The butt weld part is long so care must be taken that distortion does not occur.
- (2) Because the weld points below the floor are cut, the third seat anchor reinforcement and rear brace shown in the figures should also be replaced together with the rear floor panel.

**Standard body vehicles  
(Mini-bus)**

Third seat anchor reinforcement

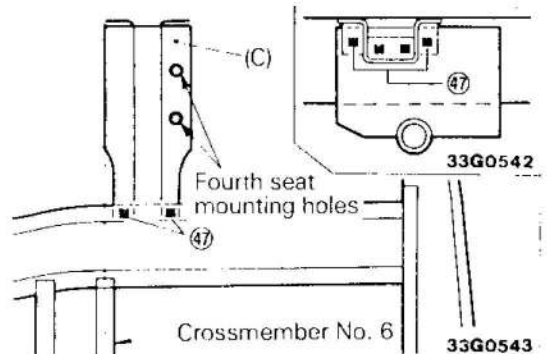
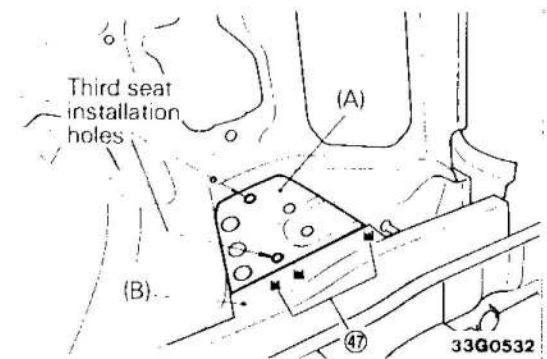
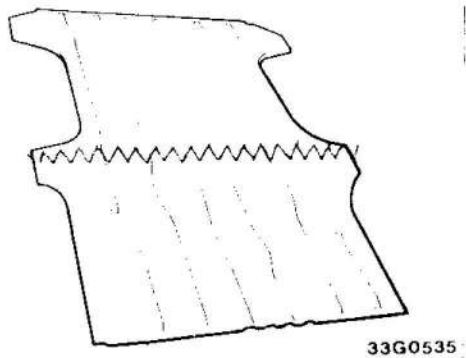
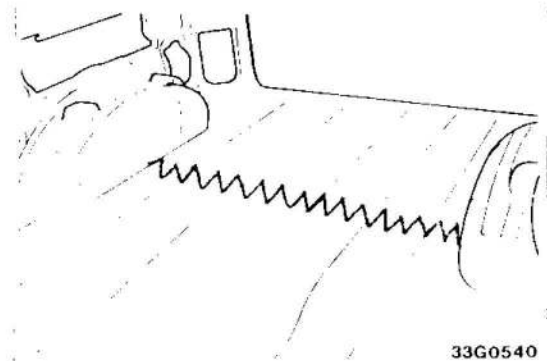
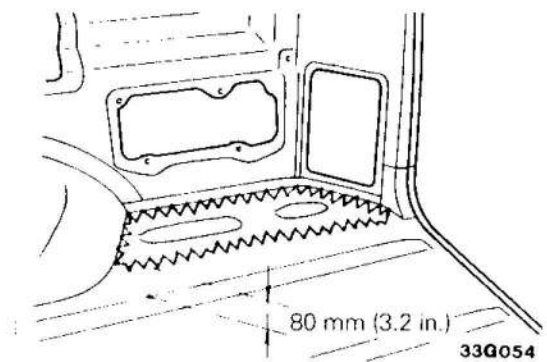
30G0032

**Long body vehicles**

Rear brace

30G0075





**Removal**

- (1) Make a rough cutting of the rear side of the rear floor panel where shown in the figure.

**NOTE**

This cutting is done in order to provide working space, because the flange of the rear floor panel faces downward, so that the cutting of the spot weld points is difficult.

**Caution**

- For the Mini-bus of the standard body vehicles, make a rough cutting at a place 80 mm (3.2 in.) away from the bead shown in the figure. This is in order to leave the body side flange (B) in step (2) of "Installation".

- (2) Make a rough cutting of the front of the rear floor panel at the place shown in the figure.
- (3) Cut the spot weld points and remove the rear floor panel.

**Installation**

- (1) Make a rough cutting of the new rear floor panel, allowing a margin for overlapping.

- (2) Install the new third seat anchor reinforcement and rear brace to the body frame by following the steps below.

**Standard body vehicles (Mini-bus)**

Plug weld the new third seat anchor reinforcement (A) to the body frame.

**Caution**

- In order to install the third seat, align with the flange (B) of the body side and weld accurately.
- Use a grinder to remove any excess and finish the surface smoothly after welding weld point ④7.

**Long body vehicles**

Plug weld the new rear brace (C) to the body frame.

**Caution**

- For installation of the fourth seat to the Mini-bus, align with the flange of the crossmember No. 6 and weld correctly. Note that the rear brace itself is installed to the Van as well.
- Use a grinder to smoothen and finish the weld reinforcement after welding of the two weld points ④7 at the flange upper surface.

- (3) Make holes in the rear floor panel, as described in the section "Notes Regarding Panel Replacement" of "BODY PANELLING", for installation of the seat and seat belt.

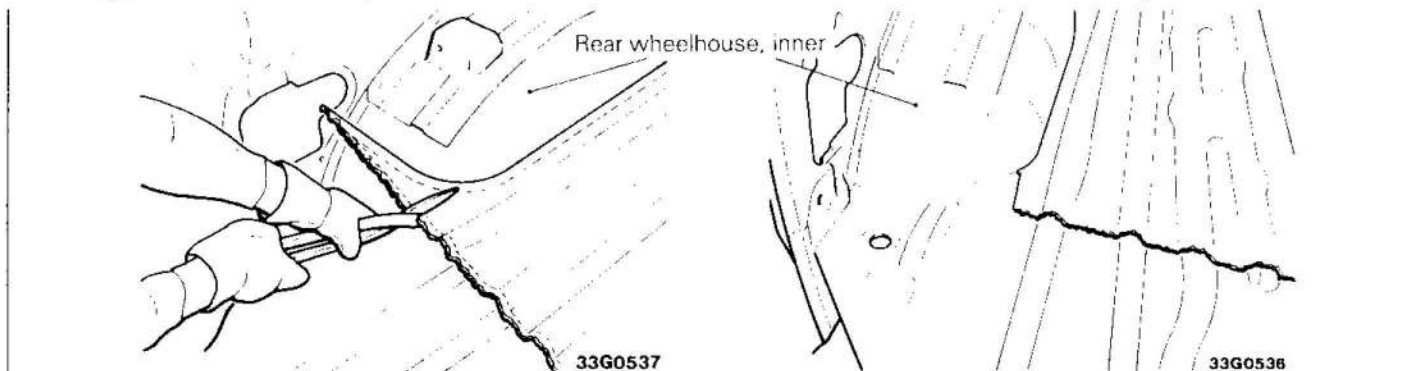
### Caution

- Regarding the holes for installation of the seat and seat belt, these same holes are also provided in the reinforcements welded to the body frame. It is necessary, therefore, to check to be absolutely sure that the holes are in alignment with these reinforcements' hole positions when the holes are made in the rear floor panel.

- (4) Temporarily install the rear floor panel to the body.

### NOTE

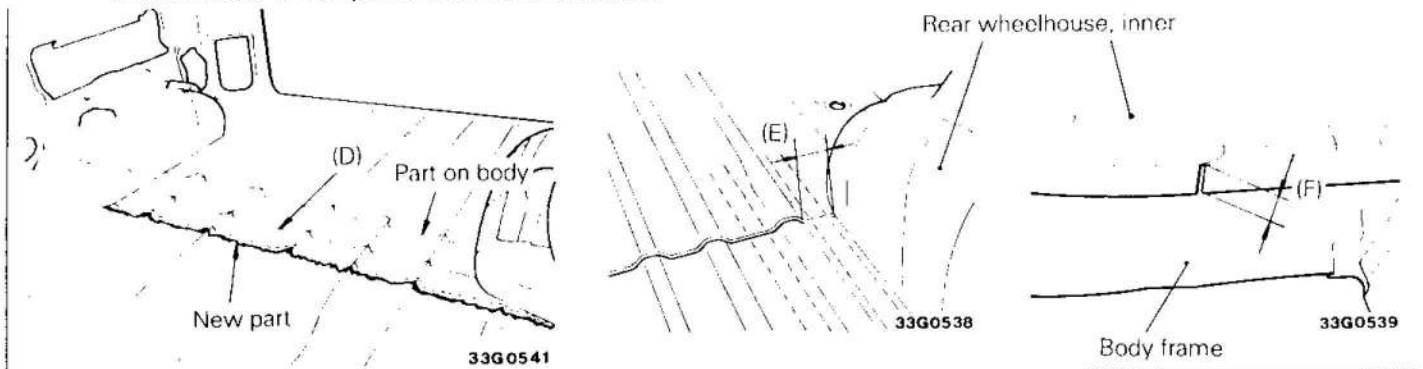
Make the cutting where shown in the figure (at both left and right), and then insert the downward facing flange of the rear floor panel into the clearance around the rear wheelhouse inner panel.



- (5) Using a rotary cutter, cut both the new and the old parts at the same time at the centre (D) of the overlapping part.

### NOTE

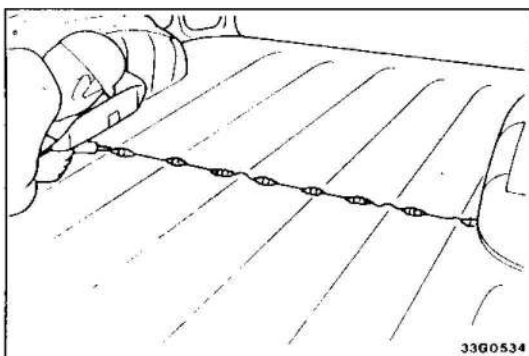
- (1) A rotary cutter cannot be used for the overlapping parts (E) of the flange surfaces at both edges of the body frame, so acetylene gas must be used for cutting them.
- (2) Note that, for the overlapping parts (F) of the rear wheelhouse inner panel, the flange of the rear floor panel faces downward, and for that reason the cutting should be done together with the rear wheelhouse inner panel from the outside.



- (6) Butt weld the rear floor panel.

### Caution

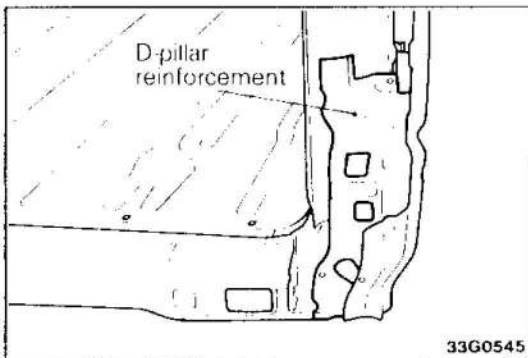
- In order to prevent distortion caused by the welding heat, make the welds alternately at regular intervals.



**REAR END CROSSMEMBER**

**NOTES WITH REGARD TO REPAIR WORK**

- (1) In order to facilitate the removal and installation of the rear end crossmember, remove the rear quarter outer extension.
- (2) For the rear end crossmember, removal and installation in the inner and outer sub-assembly condition is difficult, and for that reason the work should be done separately.



**Removal**

- (1) Remove the left and right rear quarter outer extensions.

**NOTE**

- The D-pillar reinforcement at the rear quarter outer extension lower side is to remain at the body side.
- In the figure, the rear quarter outer extension is removed.

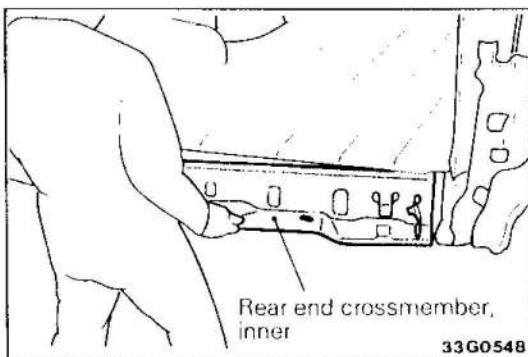
- (2) Because weld point ② cannot be seen from inside the vehicle, cut away the spot welds from the body lower side.

**Installation**

- (1) Remove the left and right quarter inner lower extensions from the new rear end crossmember inner panel.

**NOTE**

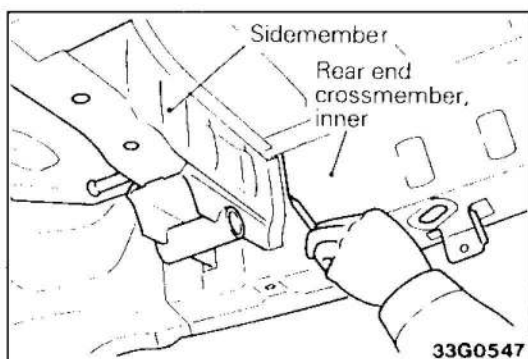
The reason for this step is to facilitate the installation to the body of the rear end crossmember inner panel.



- (2) Temporarily install the rear end crossmember inner panel to the body.

**NOTE**

First insert one side of the rear end crossmember inner panel, and then carefully insert the other side.

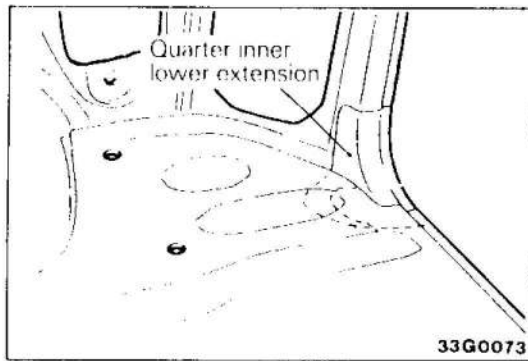


- (3) From the body lower side, mark the shape of the sidemember (body frame) rear end flange onto the rear end crossmember inner panel.

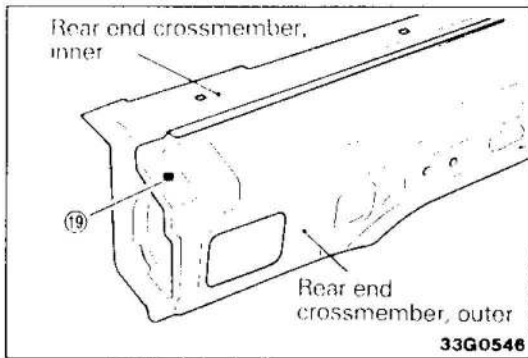
**NOTE**

The reason this is done is in order to make the holes for plug welding of weld points ⑫ and ⑬ in the new part.

- (4) Plug weld the rear end crossmember inner panel.



- (5) Insert the flange part of the left and right quarter inner lower extensions at the lower side of the rear floor panel.



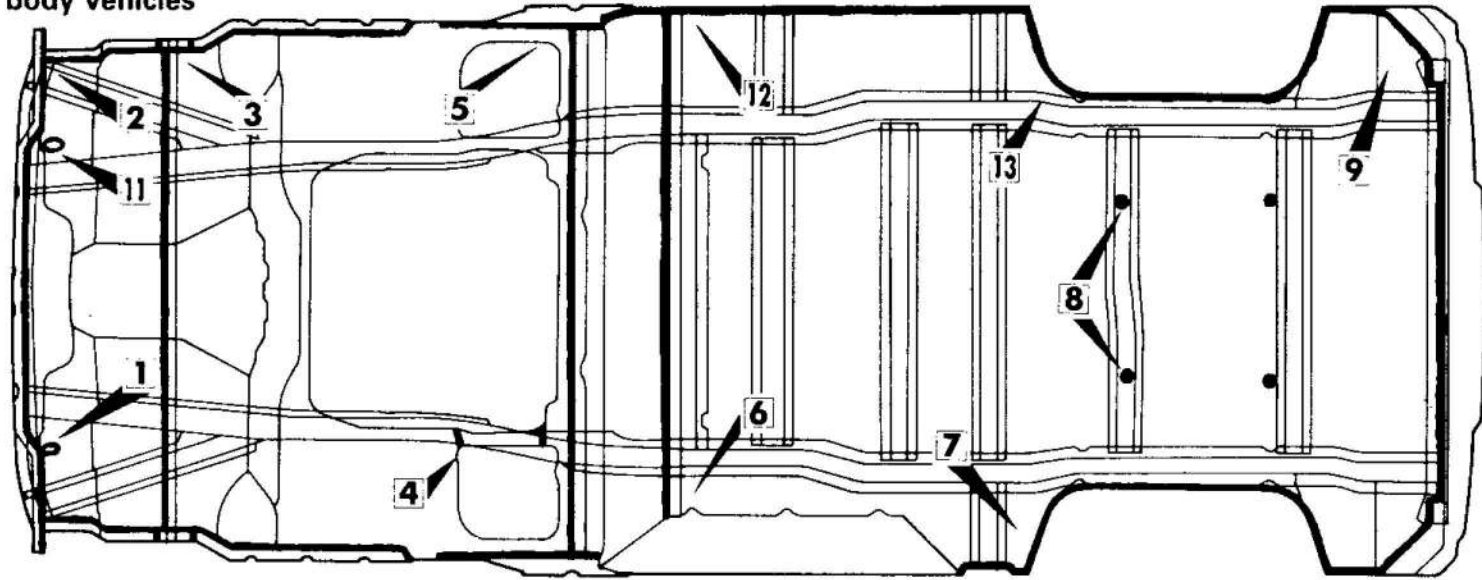
- (6) Install the new rear end crossmember outer panel to the body, and then plug weld the weld point ⑱.
- (7) Install the rear quarter outer extensions, removed in step (1) of "Removal", to the body.



# BODY SEALING LOCATIONS

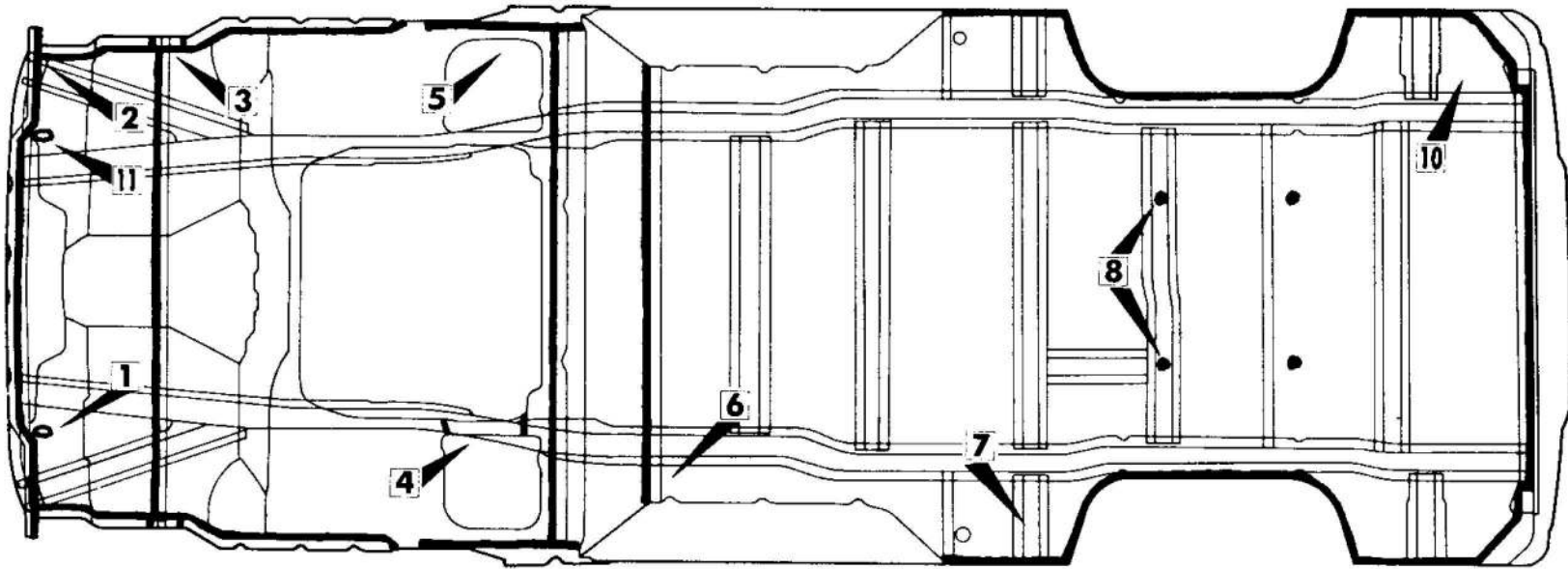
## FLOOR

### Standard body vehicles



30G0082

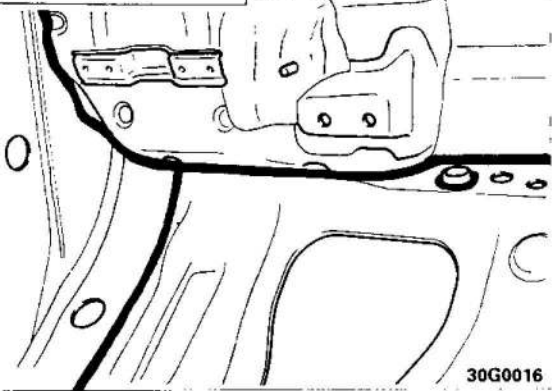
### Long body vehicles



30G0083

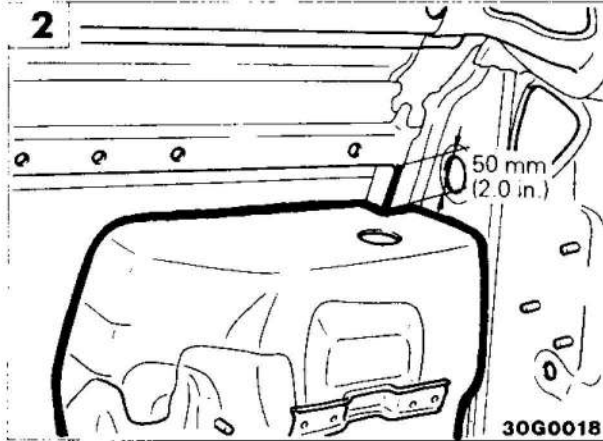
★ Sealant application locations changed . . . . . [3] and [5] (see corresponding illustrations for detail)

1 (L.H. drive vehicles)



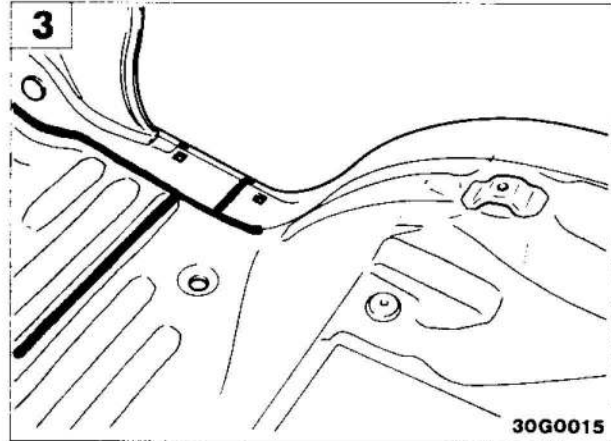
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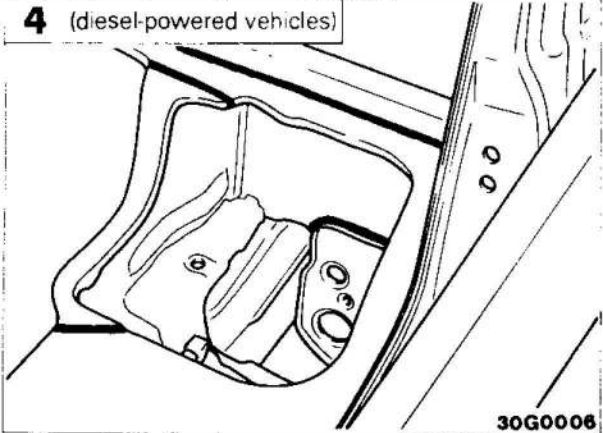
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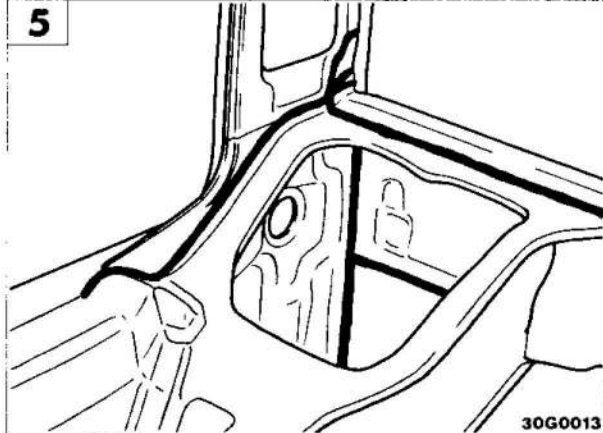
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4 (diesel-powered vehicles)



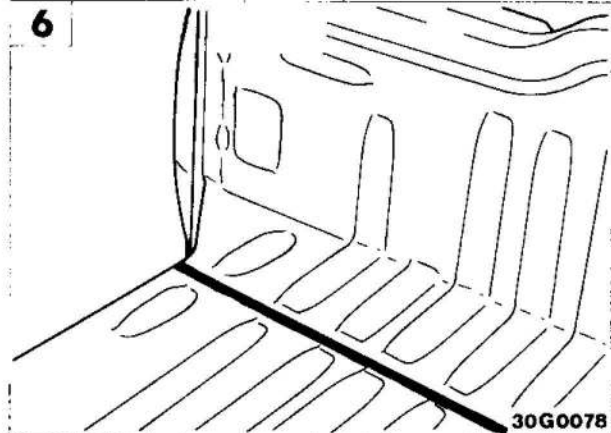
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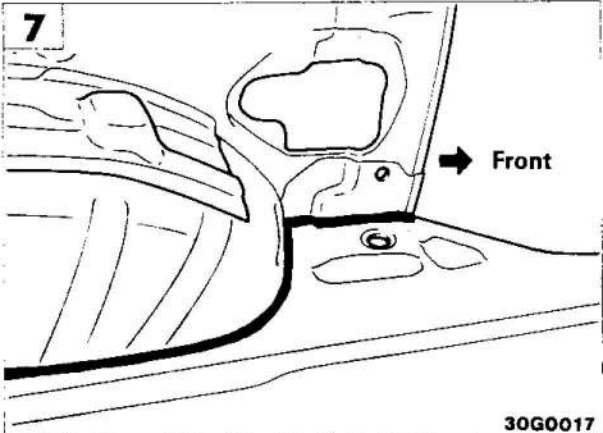
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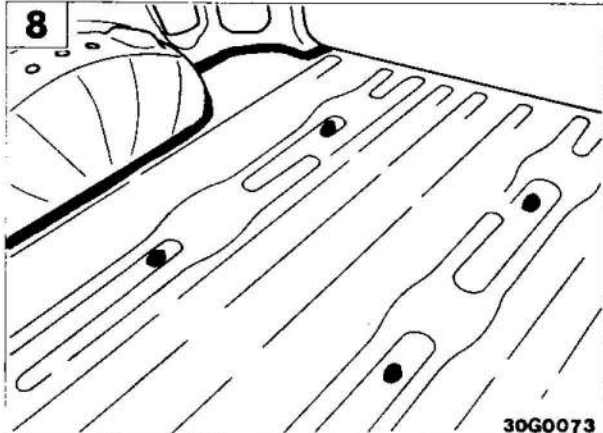
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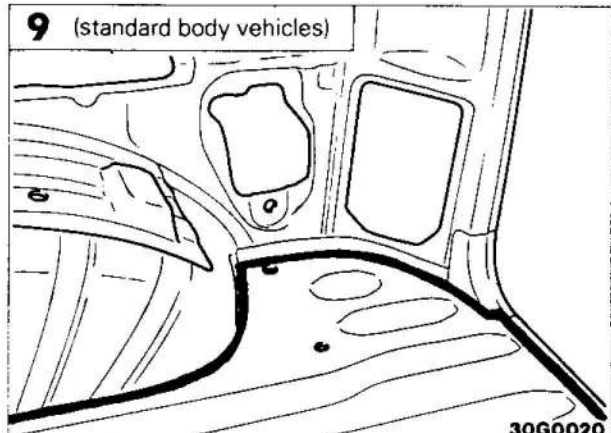
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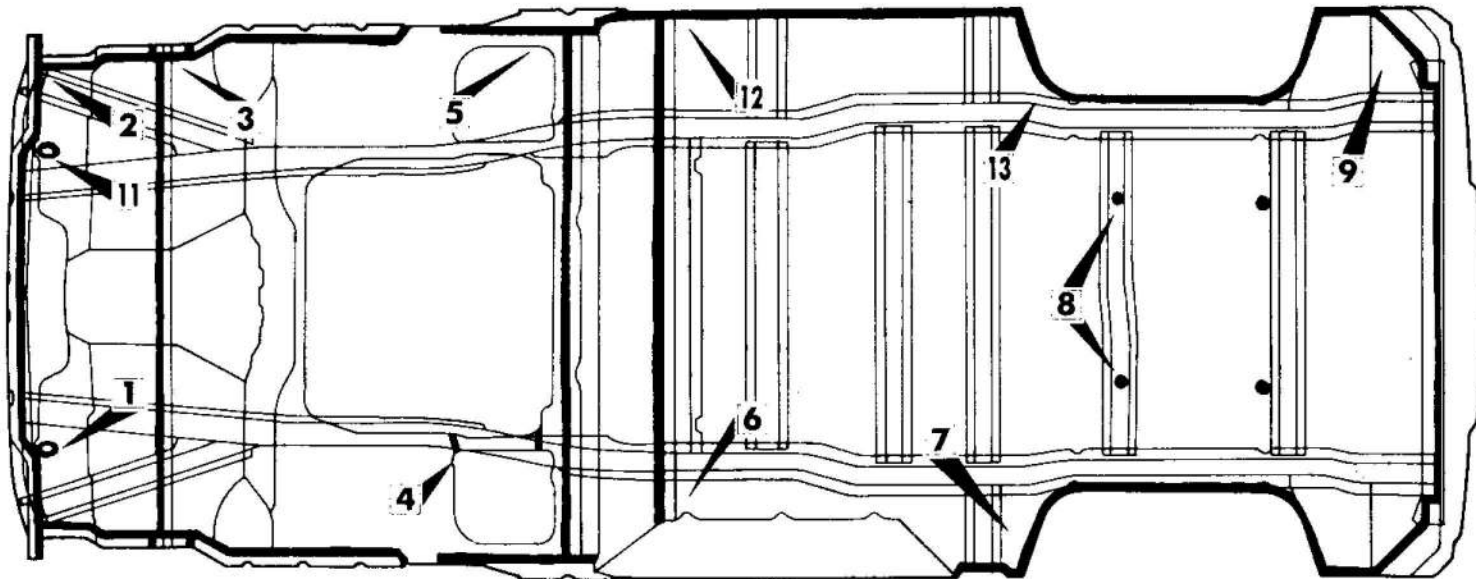
30G0073

9 (standard body vehicles)



30G0020

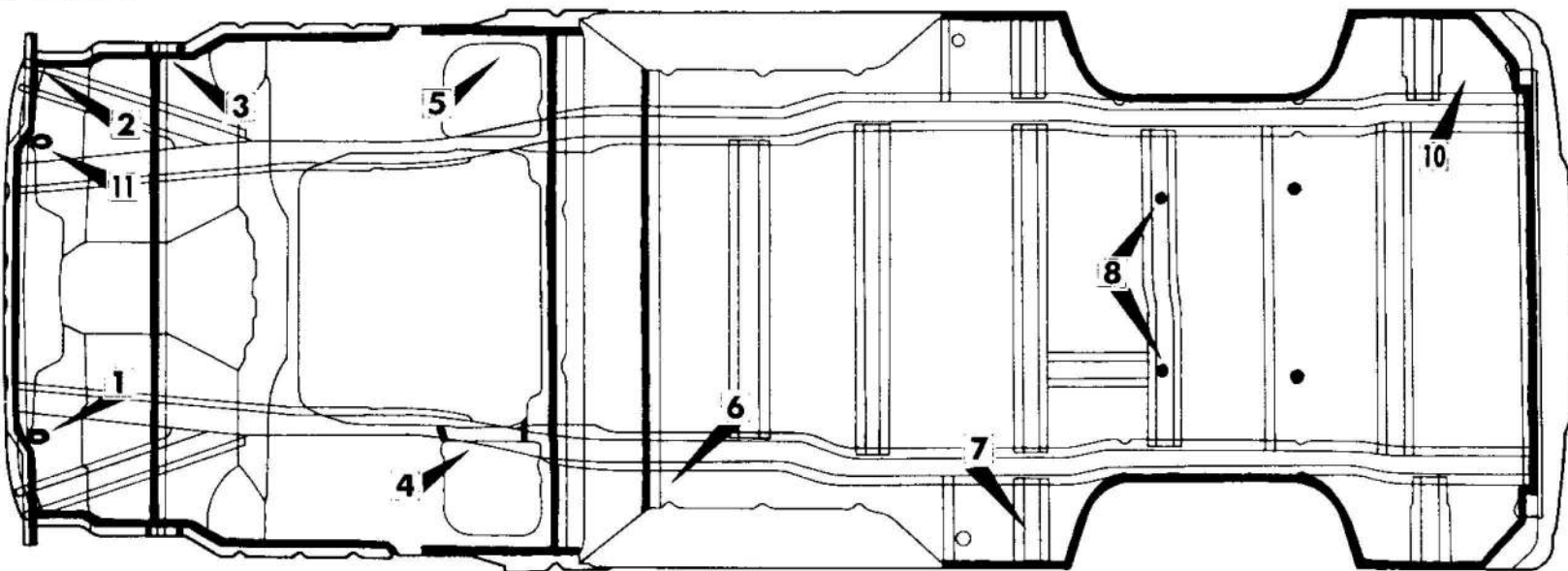
Standard body vehicles



30G0082

PWME8608-1

Long body vehicles

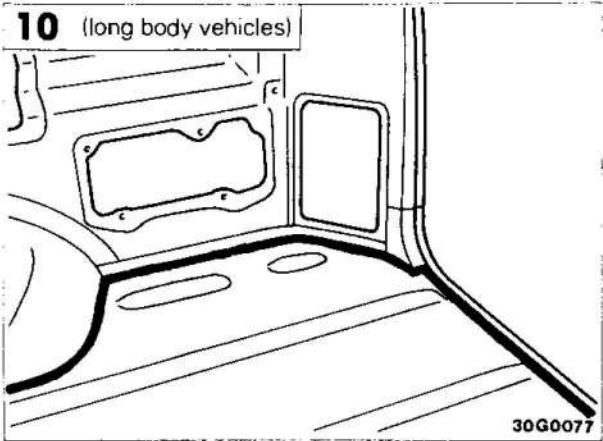


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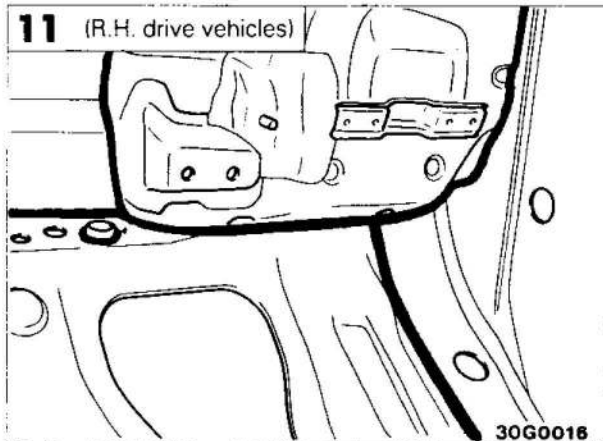
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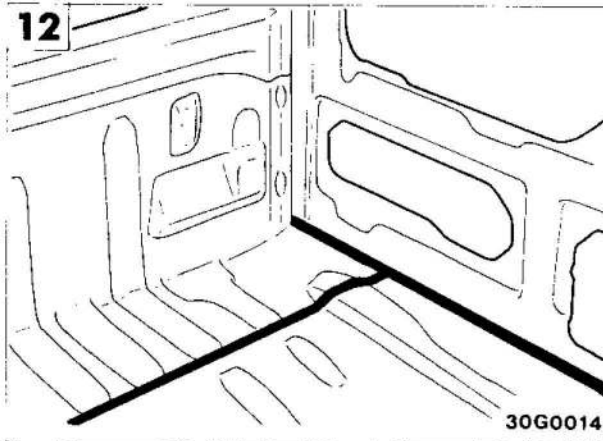
**10** (long body vehicles)



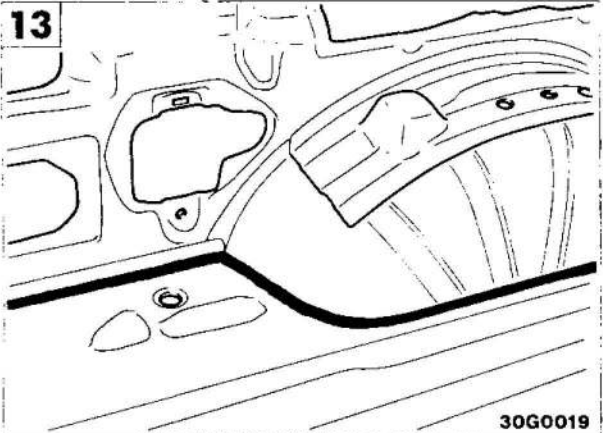
**11** (R.H. drive vehicles)



**12**



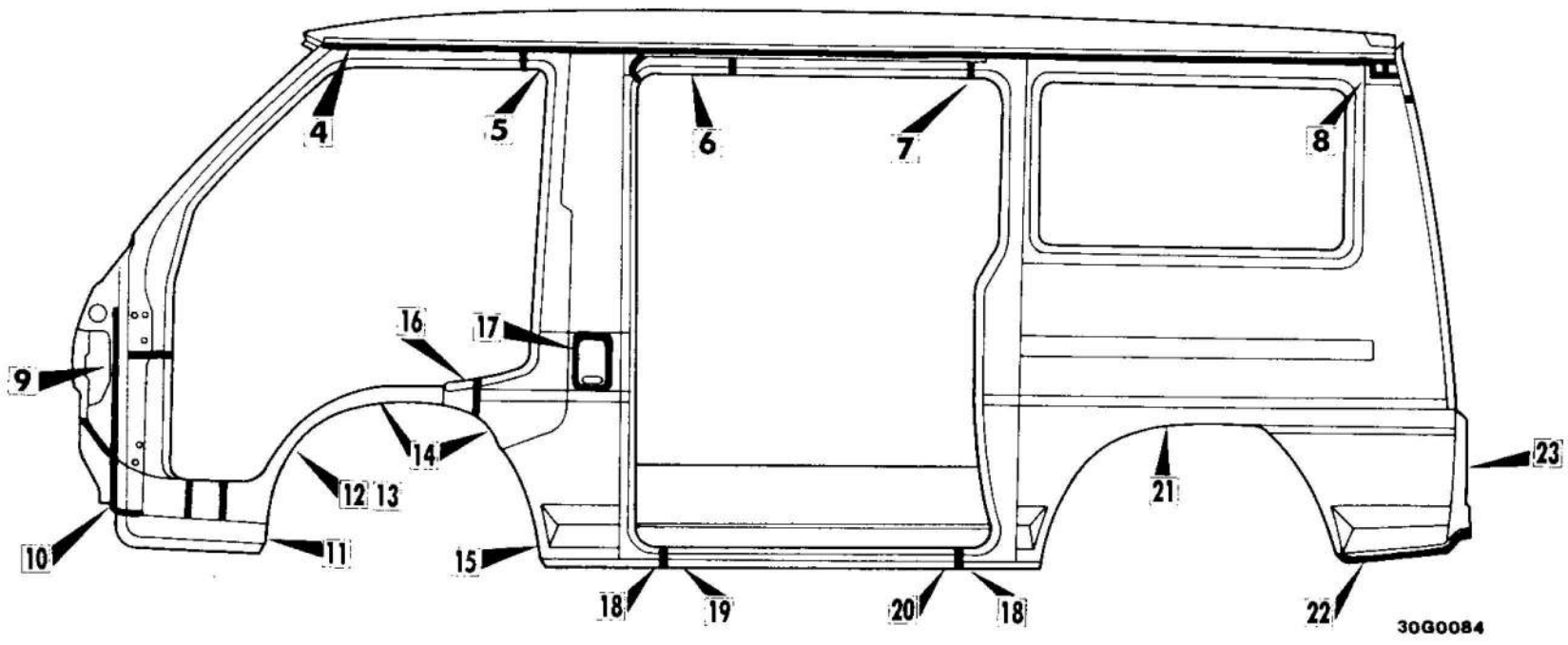
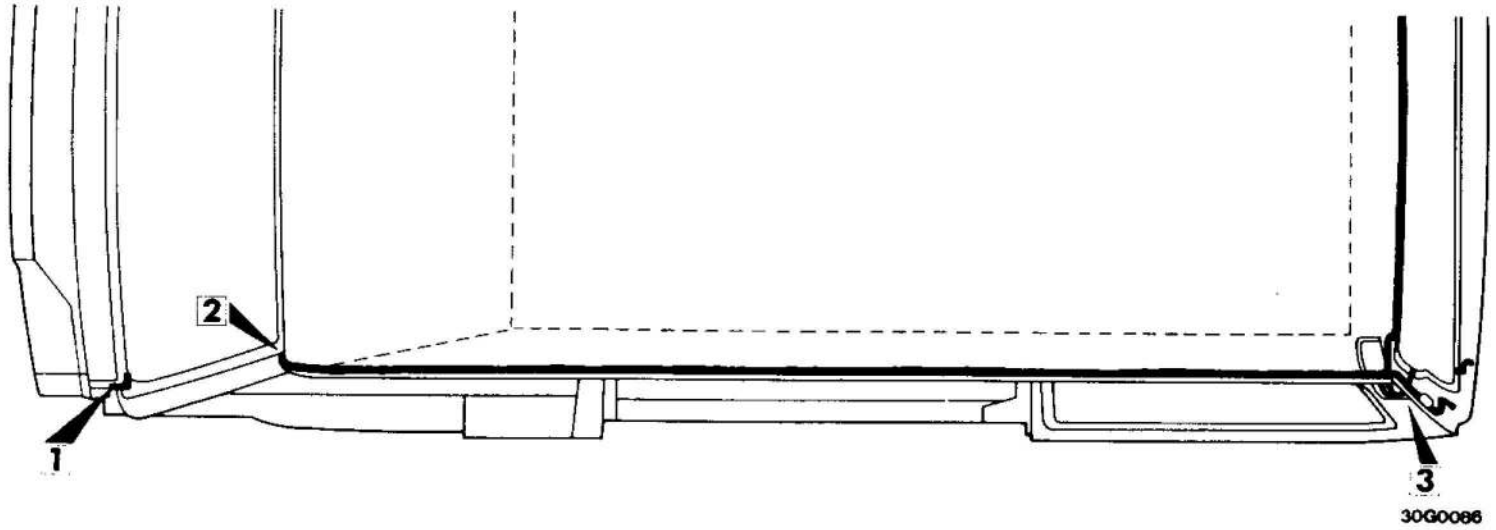
**13**



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**UPPER AND SIDE BODY**  
**Standard body vehicles**

**NOTE**

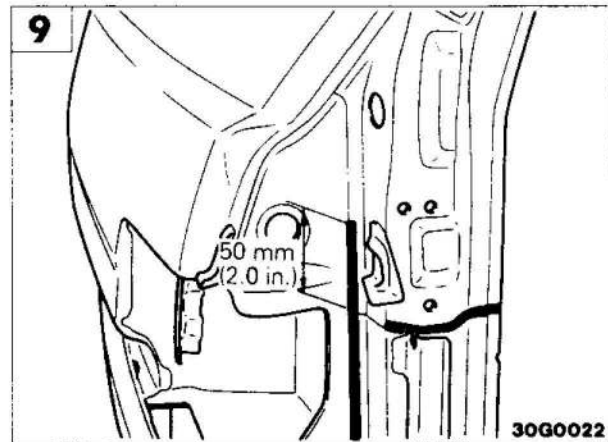
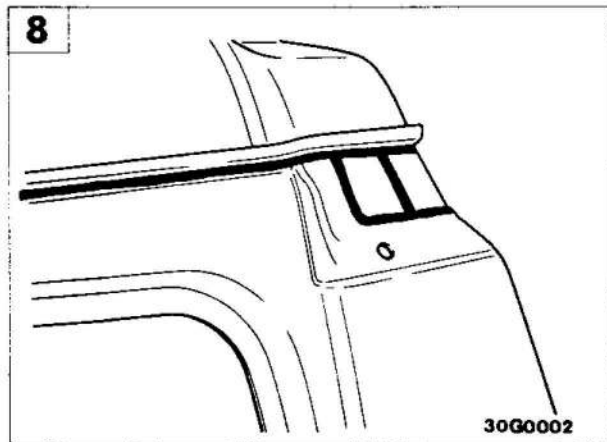
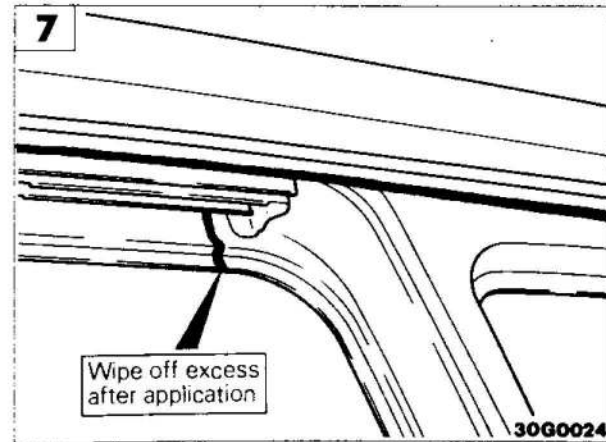
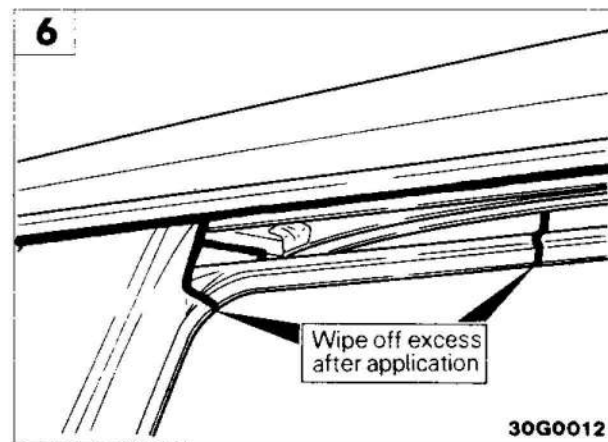
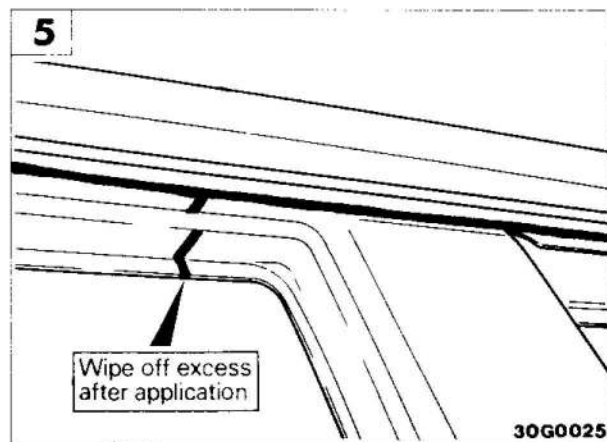
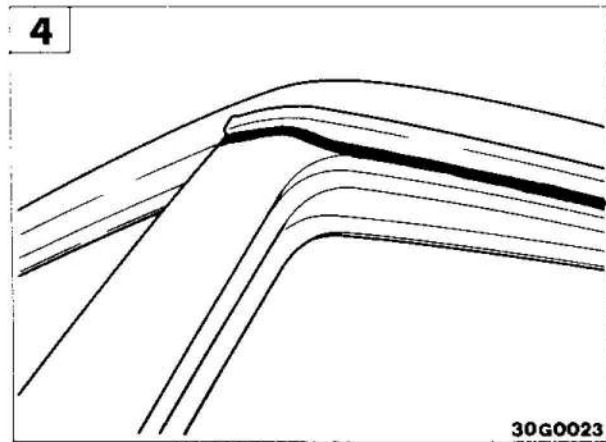
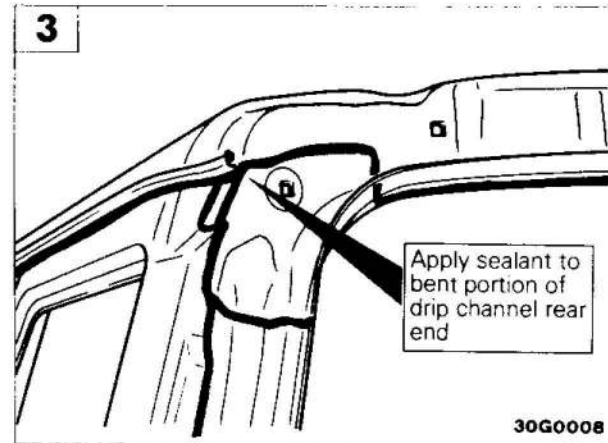
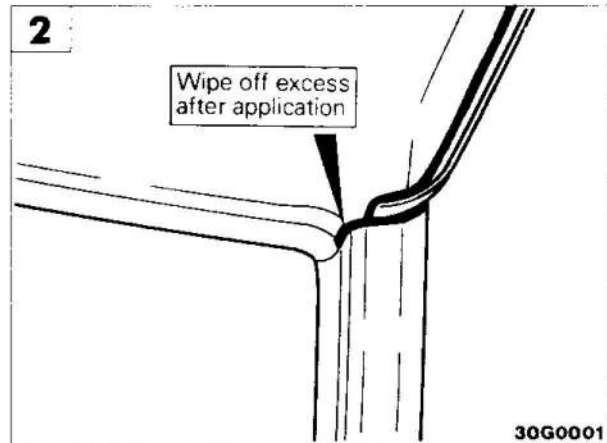
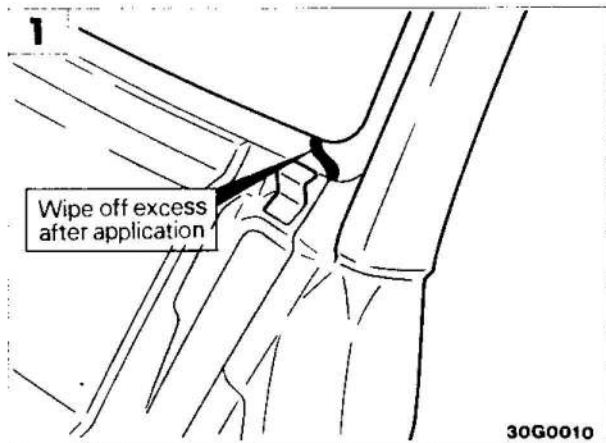
For external surfaces such as the drip channels, pillars, clinches, etc., where the sealant application can be seen directly, and where it will be necessary that the appearance of the application be attractive, apply the sealant so that it is smooth and level, or wipe the surface after applying the sealant.



PWWE8808-B

REVISED

★ Sealant application locations changed . . . . . **1** and **6** (see corresponding illustrations for detail)

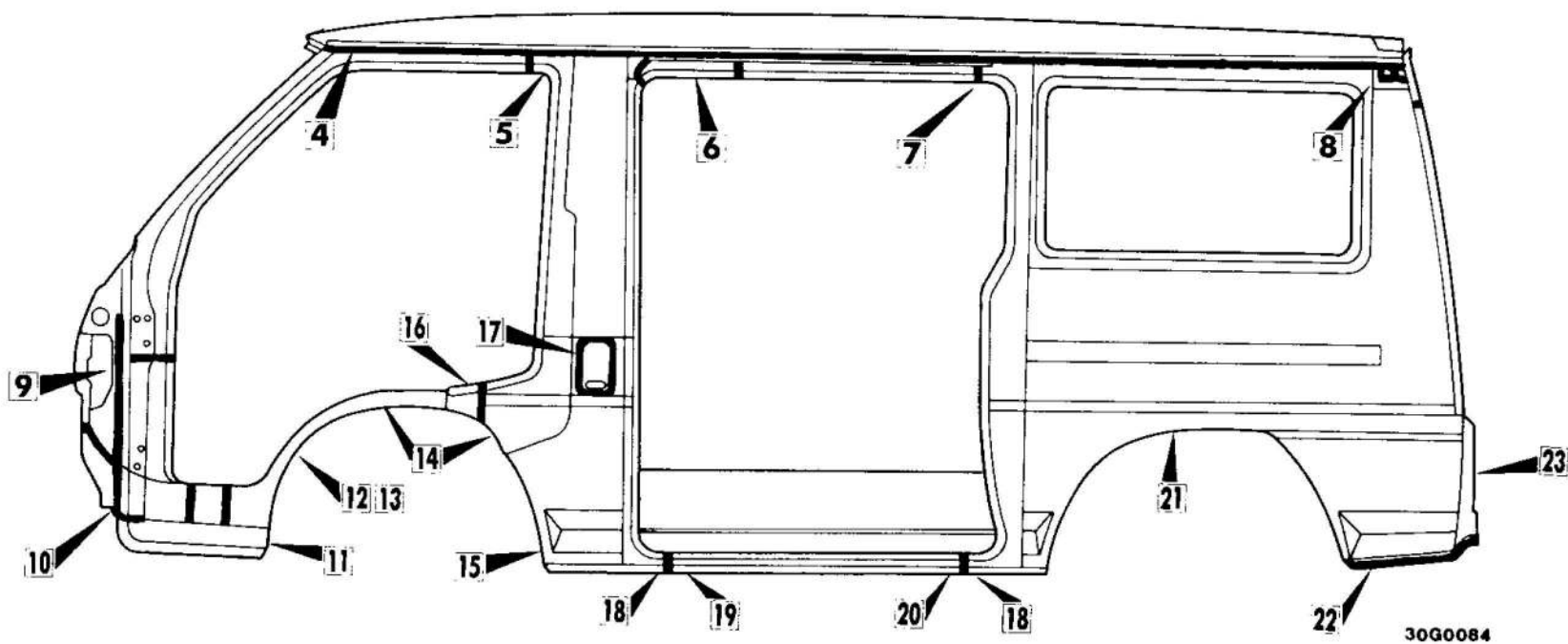
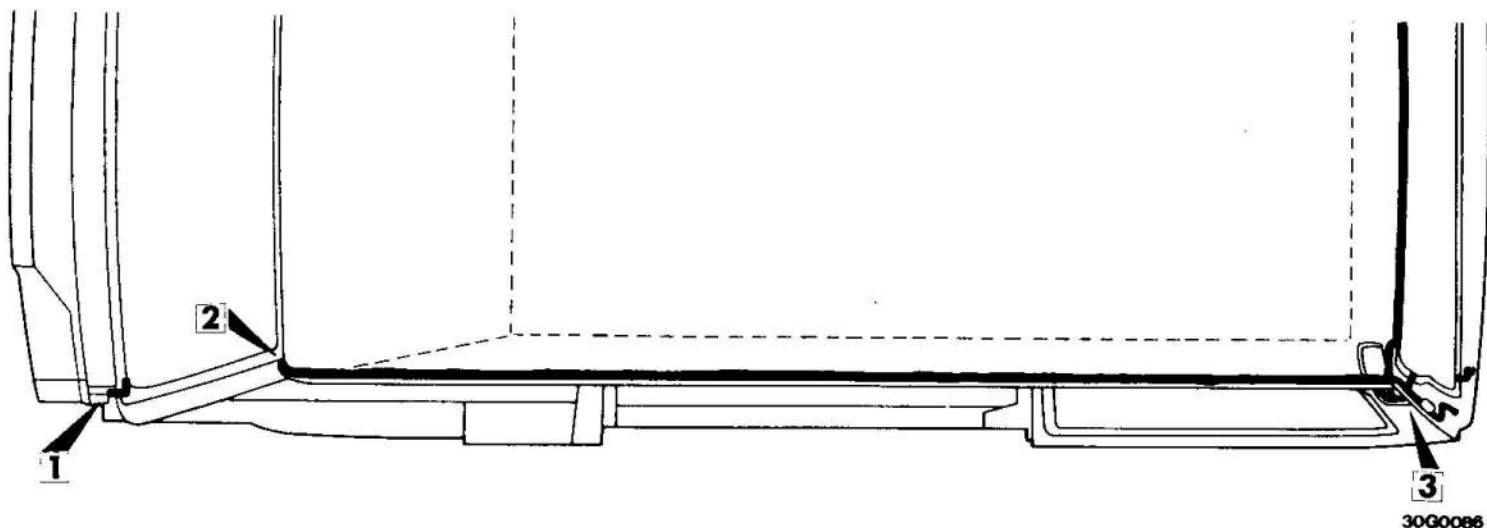


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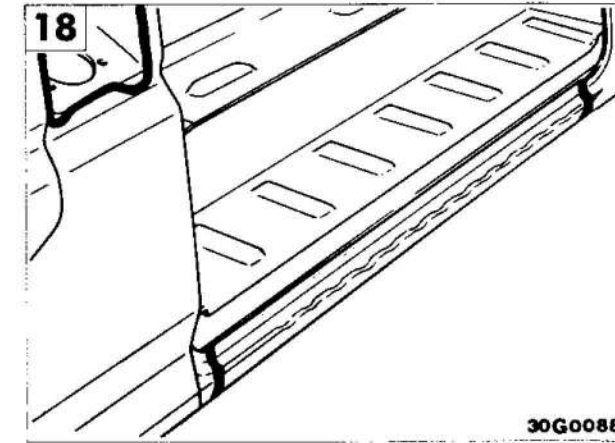
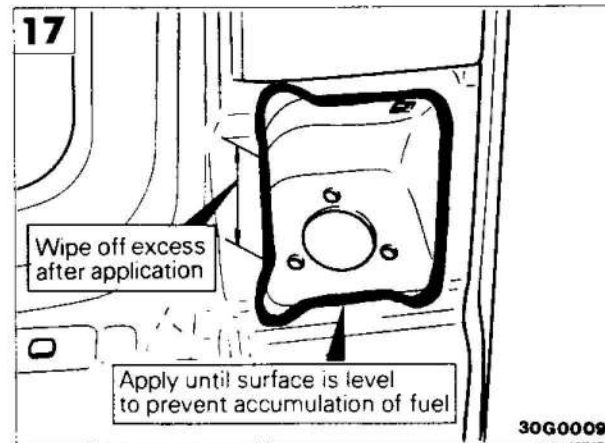
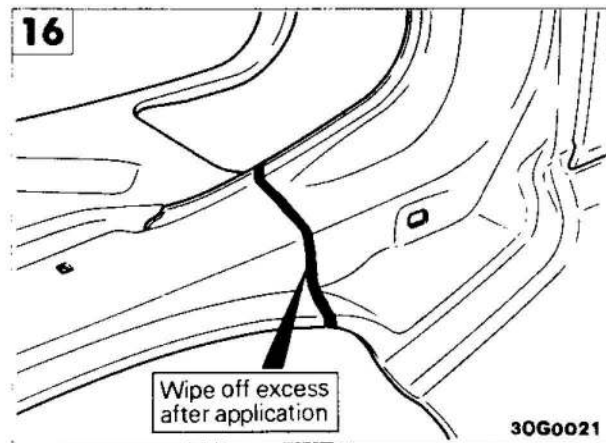
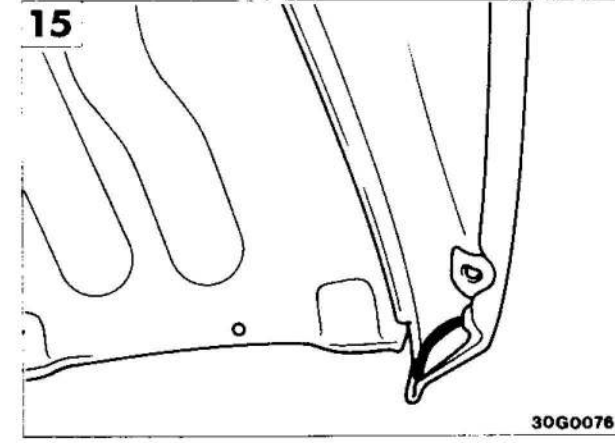
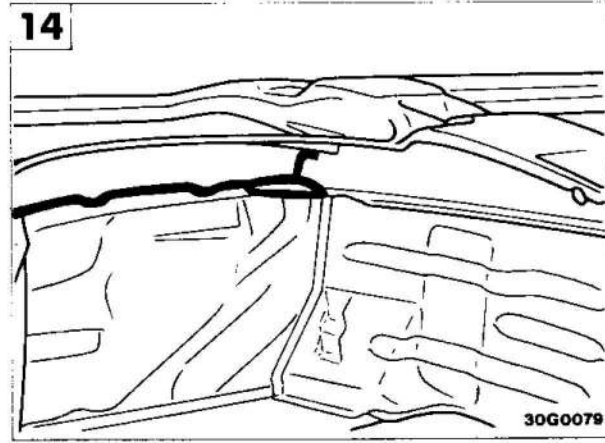
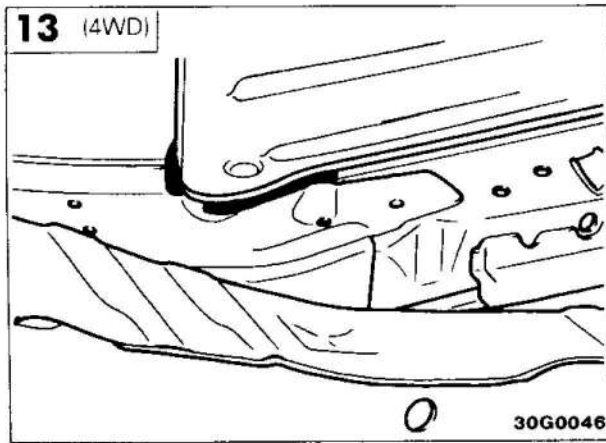
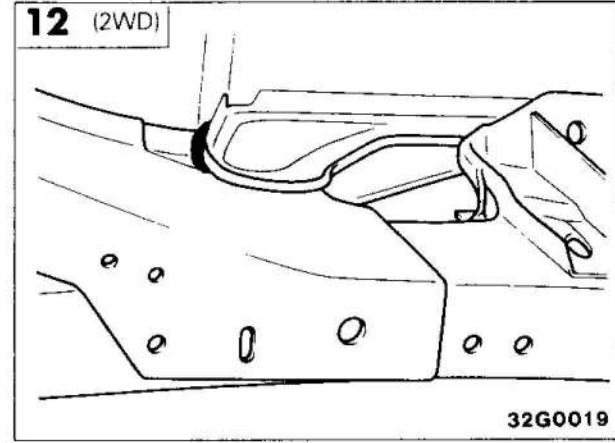
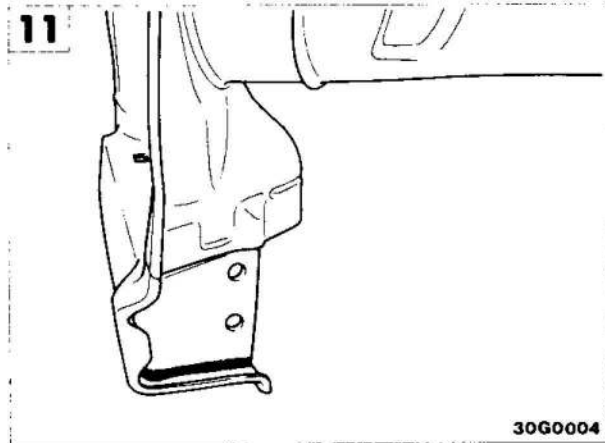
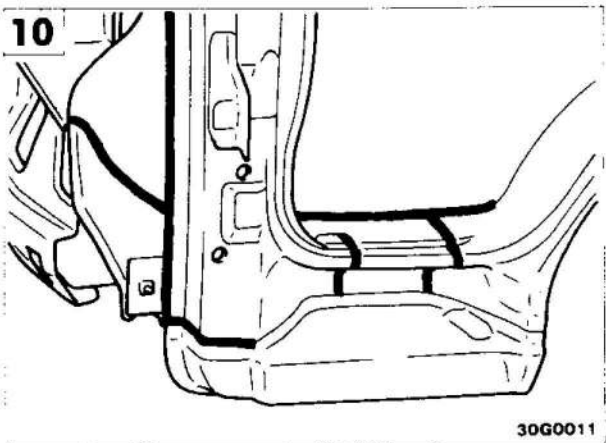
**Standard body vehicles**

**NOTE**

For external surfaces such as the drip channels, pillars, clinches, etc., where the sealant application can be seen directly, and where it will be necessary that the appearance of the application be attractive, apply the sealant so that it is smooth and level, or wipe the surface after applying the sealant.

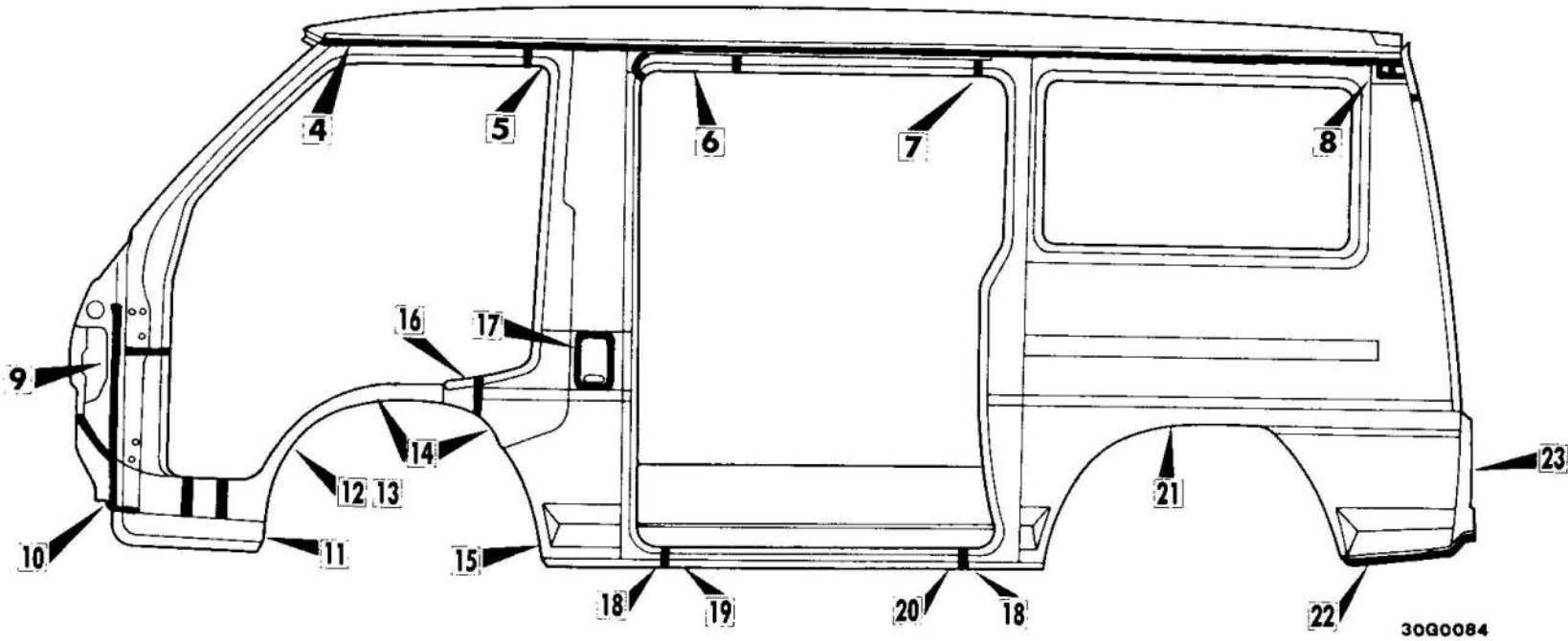
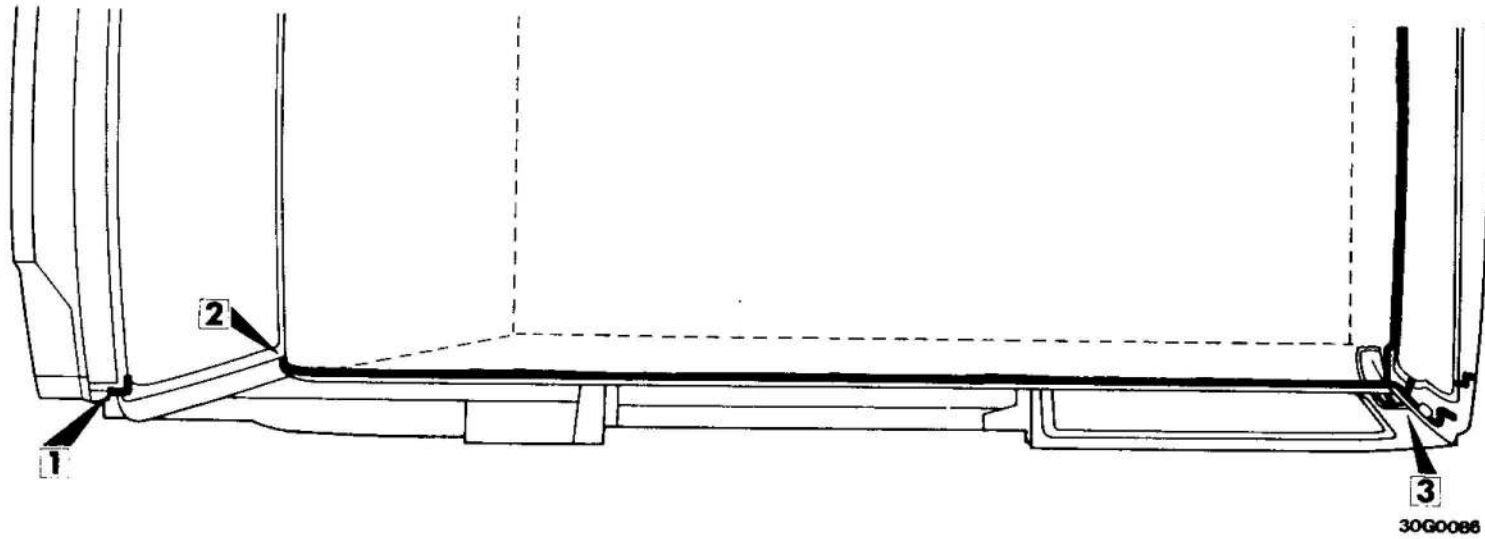


★ Sealant application locations changed . . . . . 10, 16 and 17 (see corresponding illustrations for detail)



Standard body vehicles

NOTE  
For external surfaces such as the drip channels, pillars, clinches, etc., where the sealant application can be seen directly, and where it will be necessary that the appearance of the application be attractive, apply the sealant so that it is smooth and level, or wipe the surface after applying the sealant.

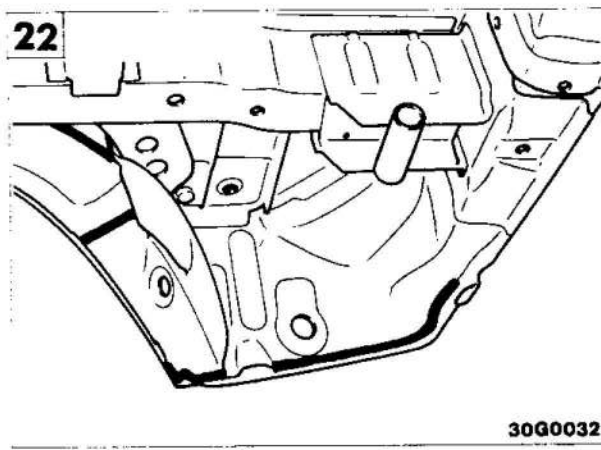
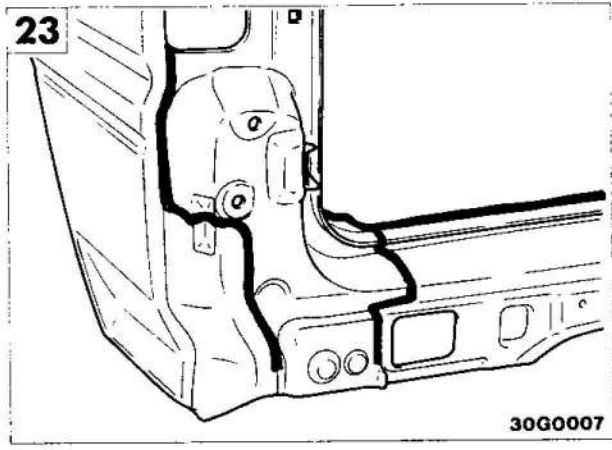
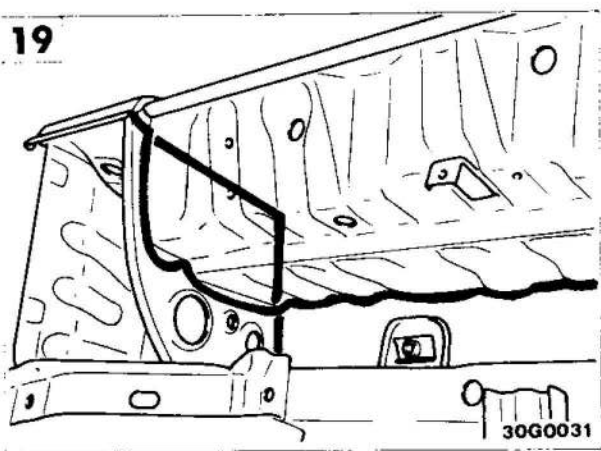
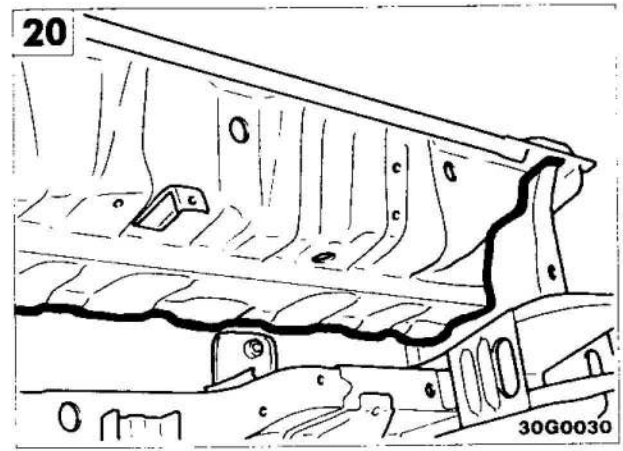
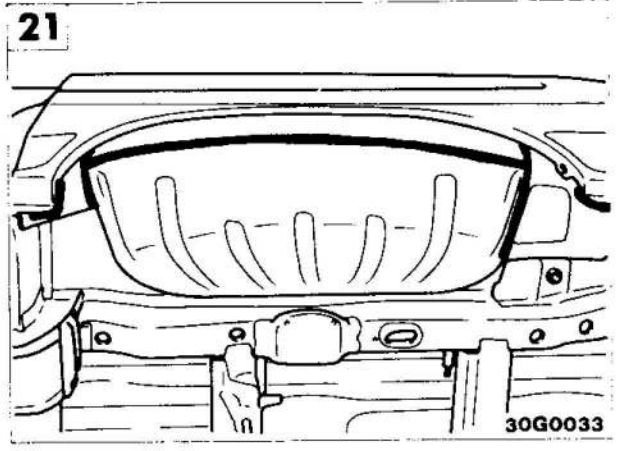


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PMMW8608-B

REVISED

★ Sealant application location changed . . . . . 19 (see corresponding illustration for detail)

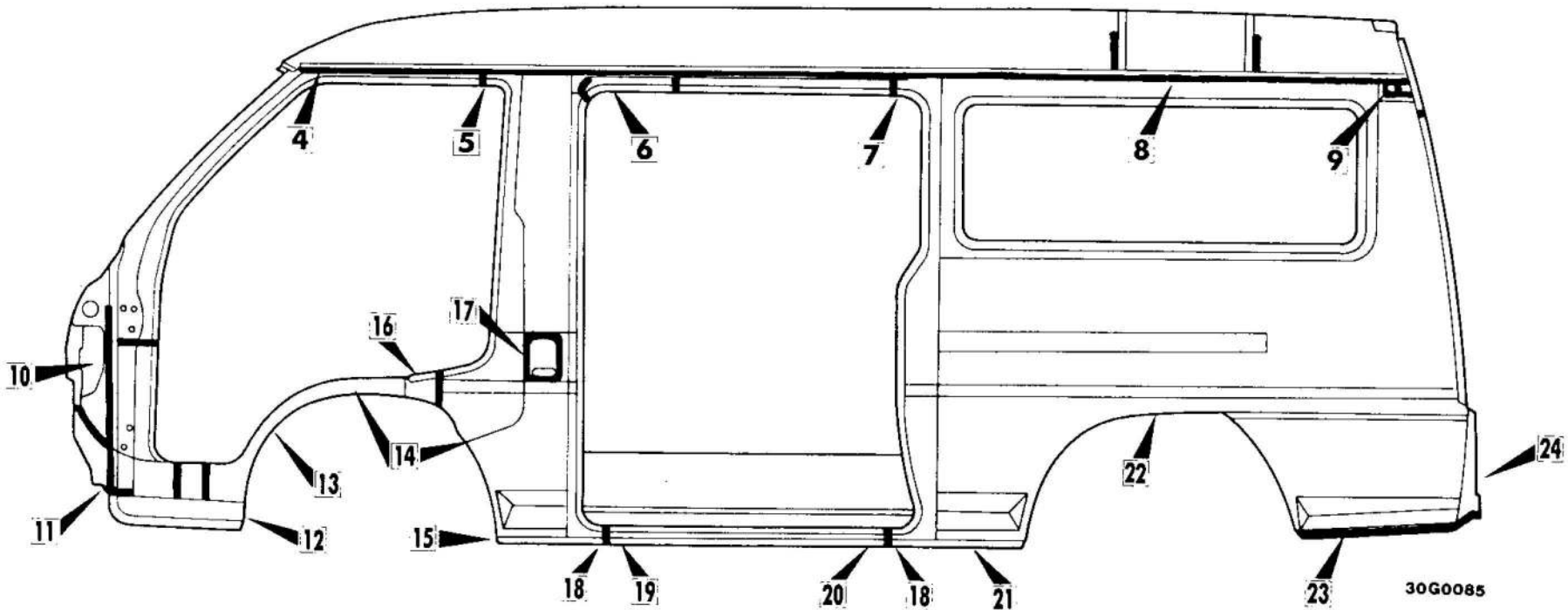
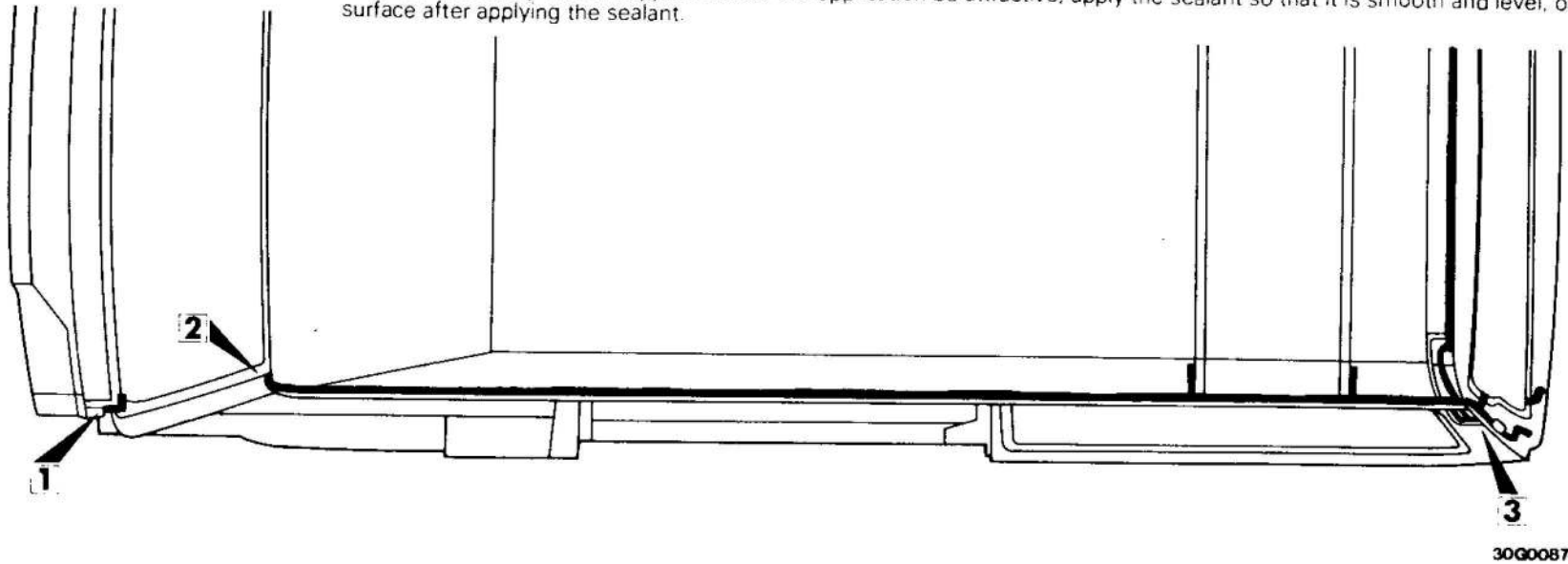


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**Long body vehicles**

**NOTE**

For external surfaces such as the drip channels, pillars, clinches, etc., where the sealant application can be seen directly, and where it will be necessary that the appearance of the application be attractive, apply the sealant so that it is smooth and level, or wipe the surface after applying the sealant.

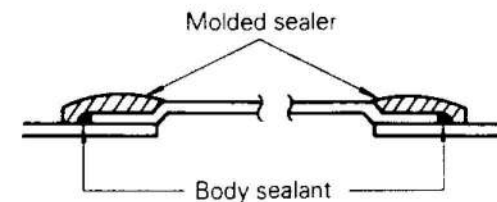
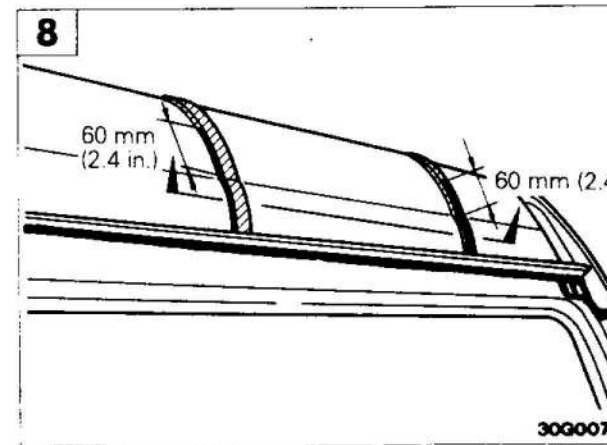
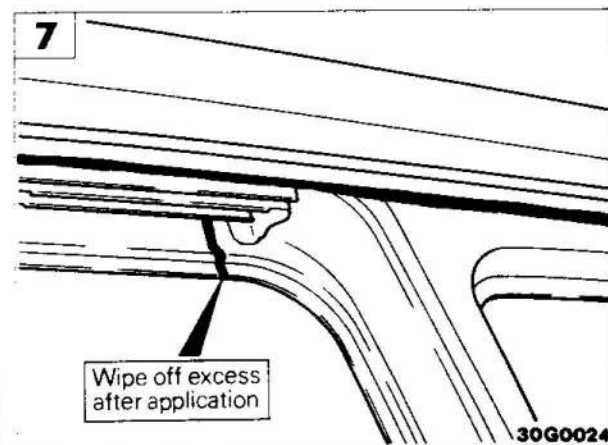
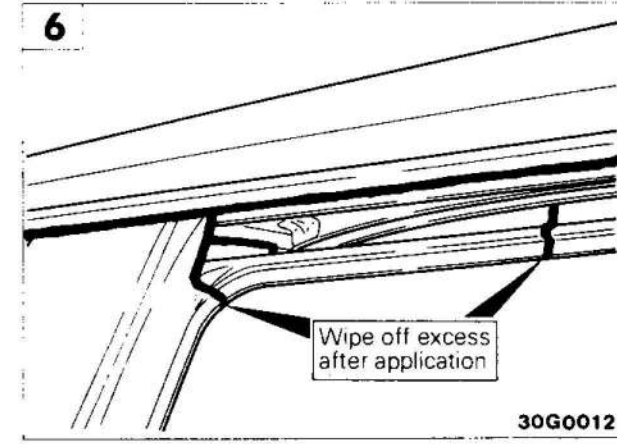
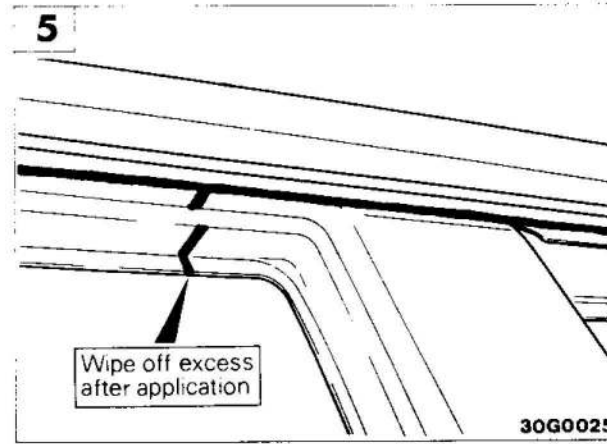
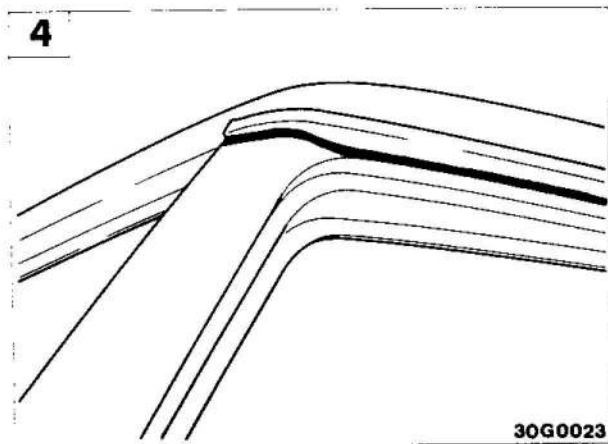
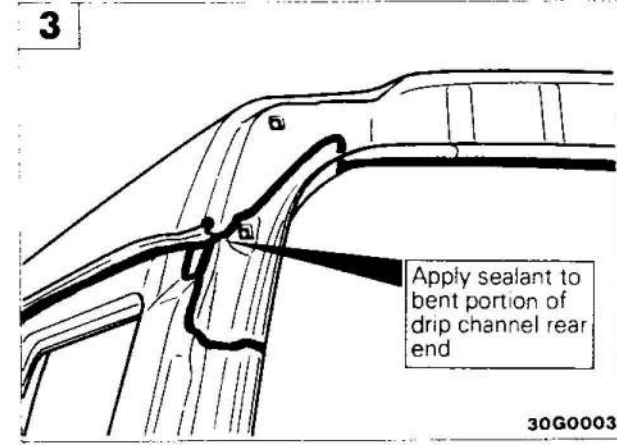
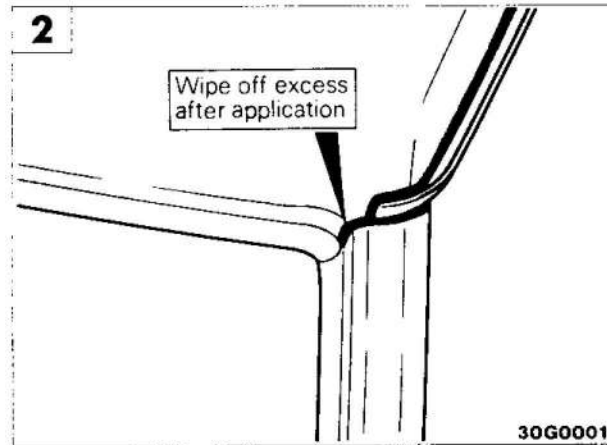
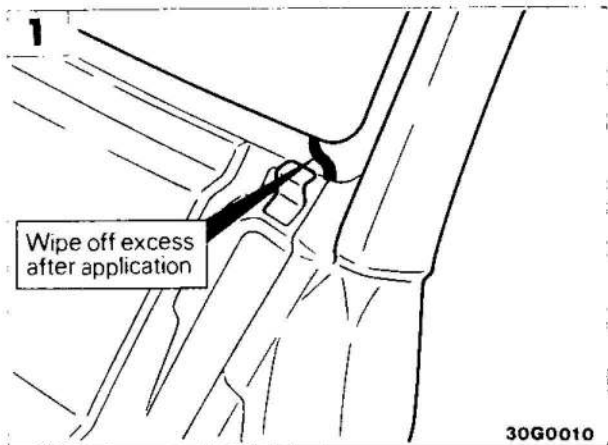


P4WVE8608-B

REVISED

★ Sealant application locations changed . . . . . 1 and 6 (see corresponding illustrations for detail)



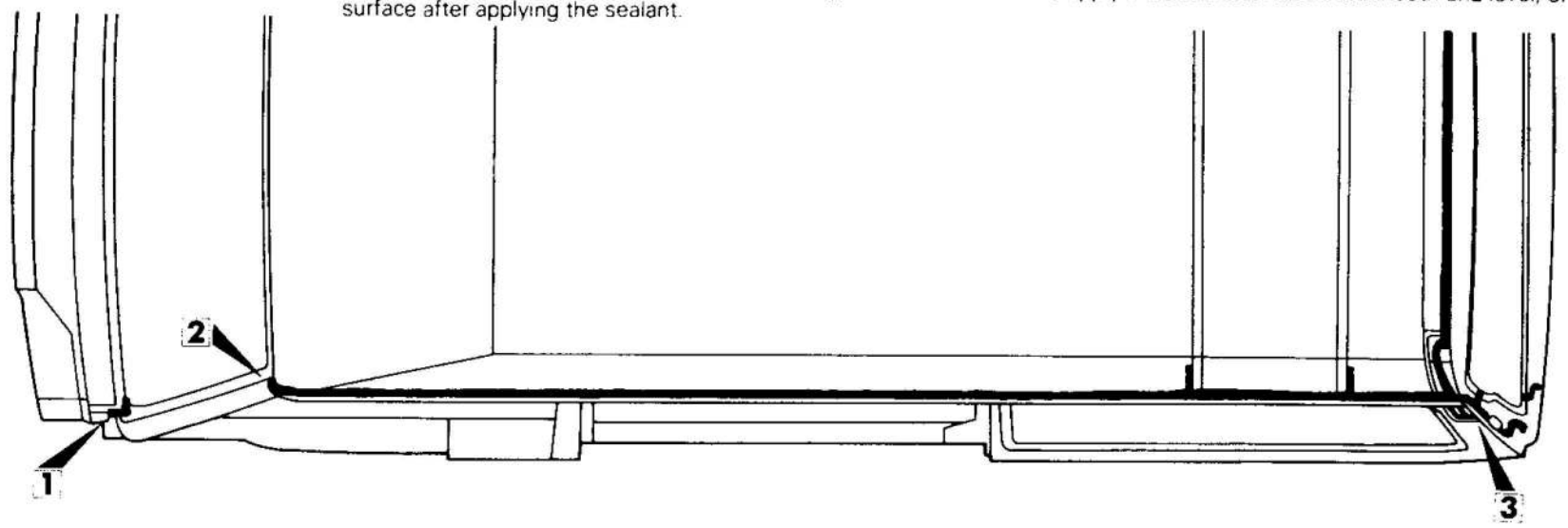


Note **30G0074**  
Refer to P.42-130 for information regarding the application of moulded sealer.

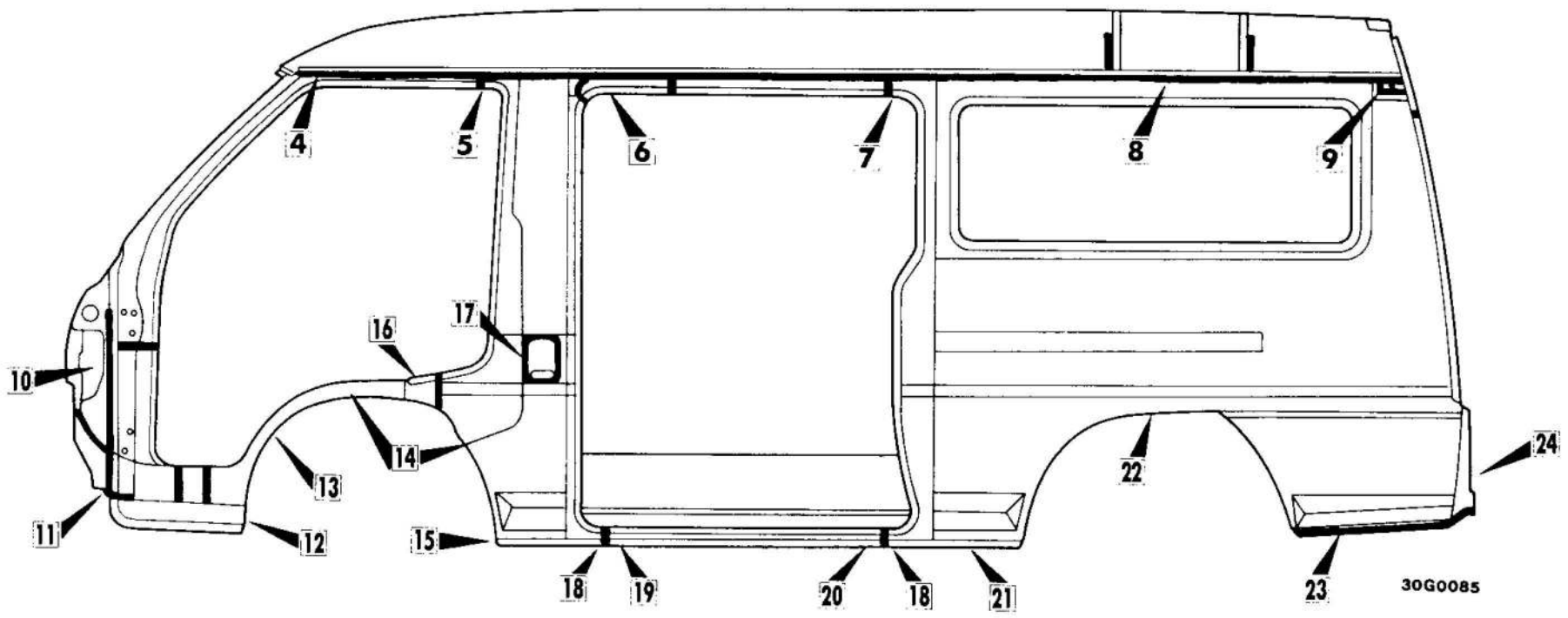
© Long body vehicles

NOTE

For external surfaces such as the drip channels, pillars, clinches, etc., where the sealant application can be seen directly, and where it will be necessary that the appearance of the application be attractive, apply the sealant so that it is smooth and level, or wipe the surface after applying the sealant.



30G0087

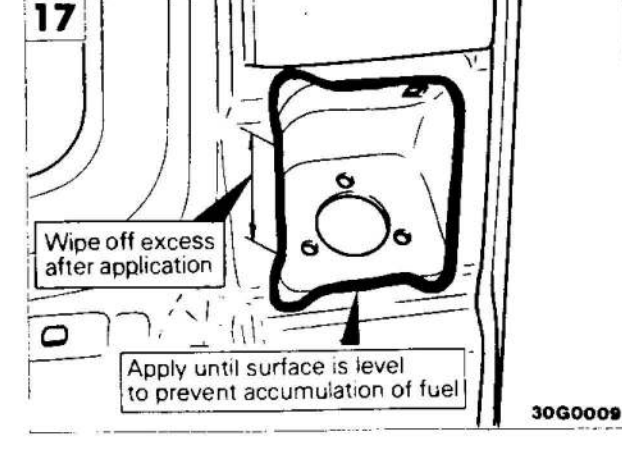
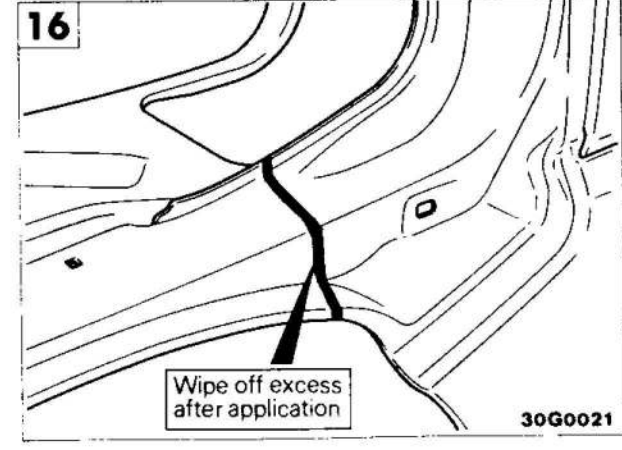
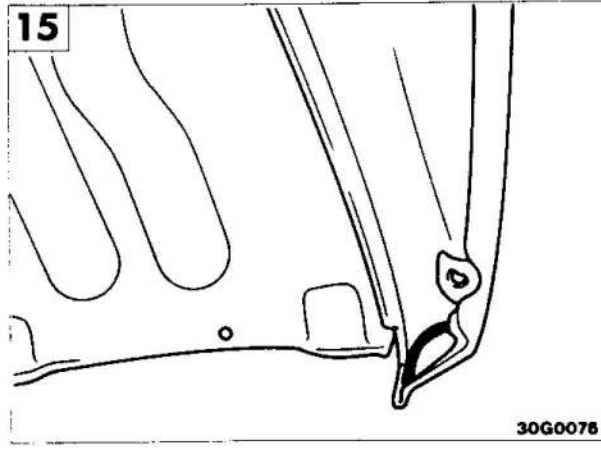
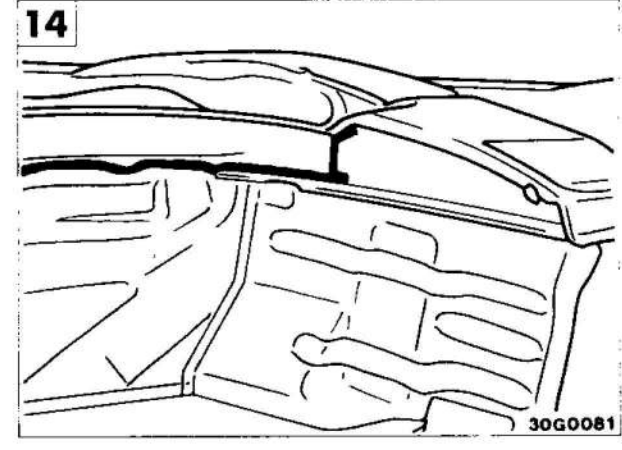
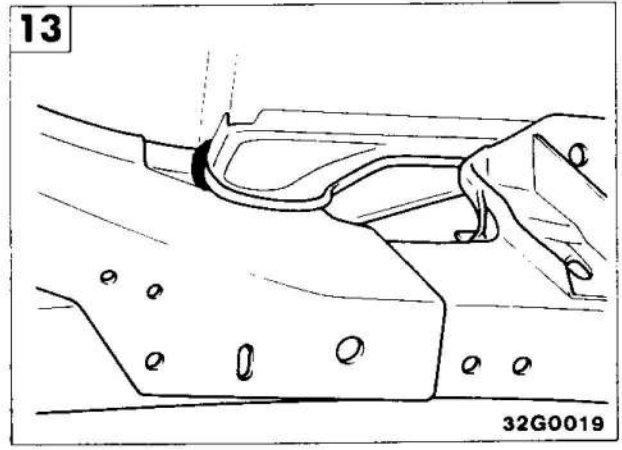
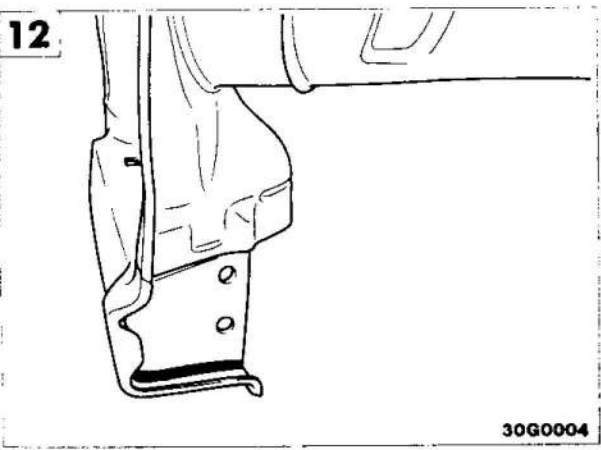
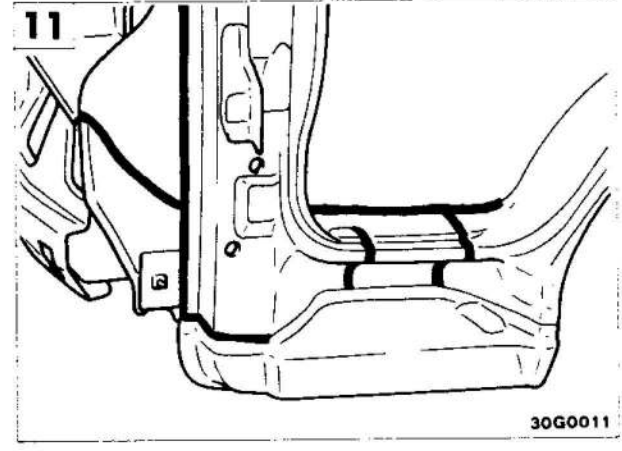
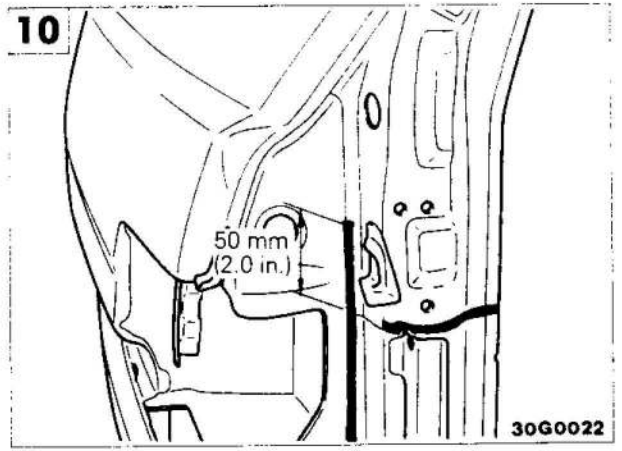
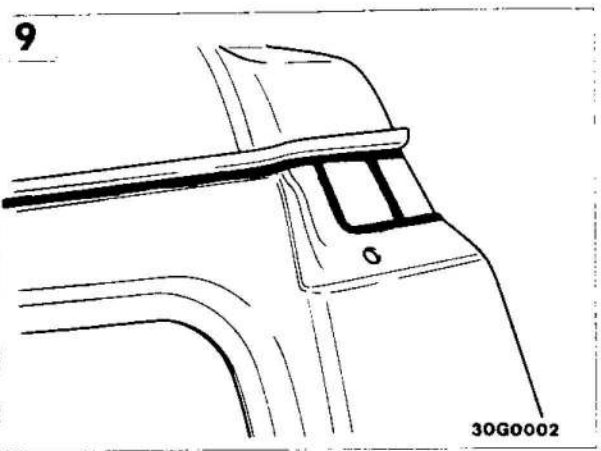


30G0085

PWWEE6608-B

REVISED

★ Sealant application locations changed . . . . . 11, 14, 16 and 17 (see corresponding illustrations for detail)



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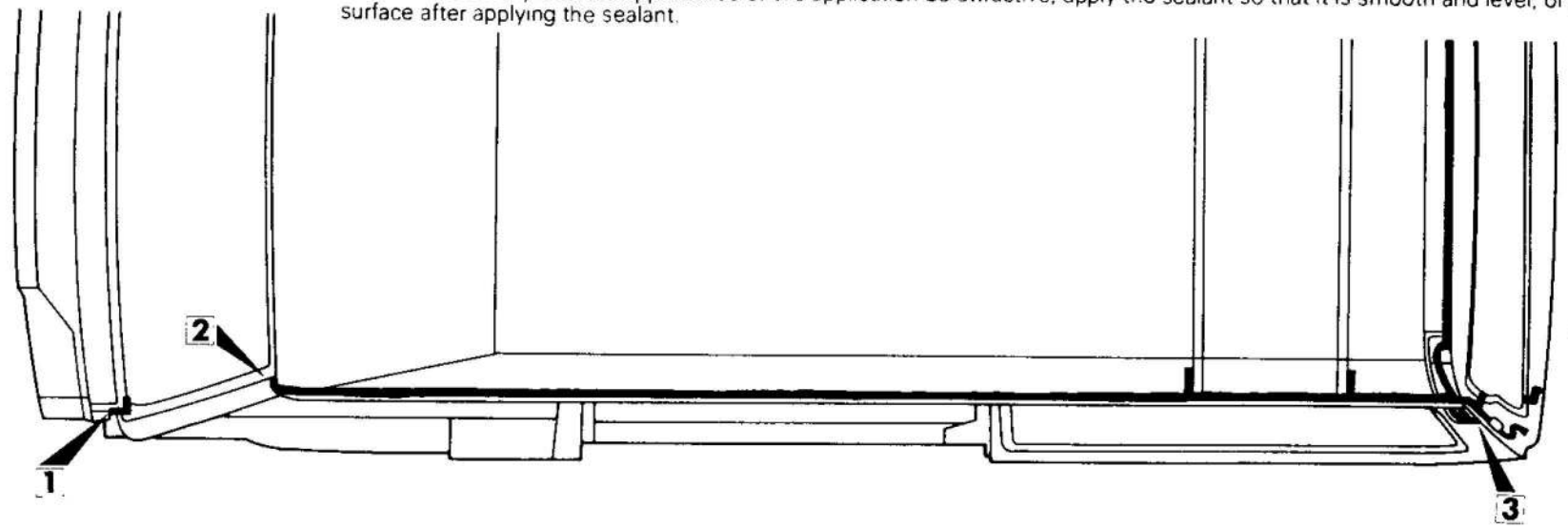
PWW/ES608-B

REVISED

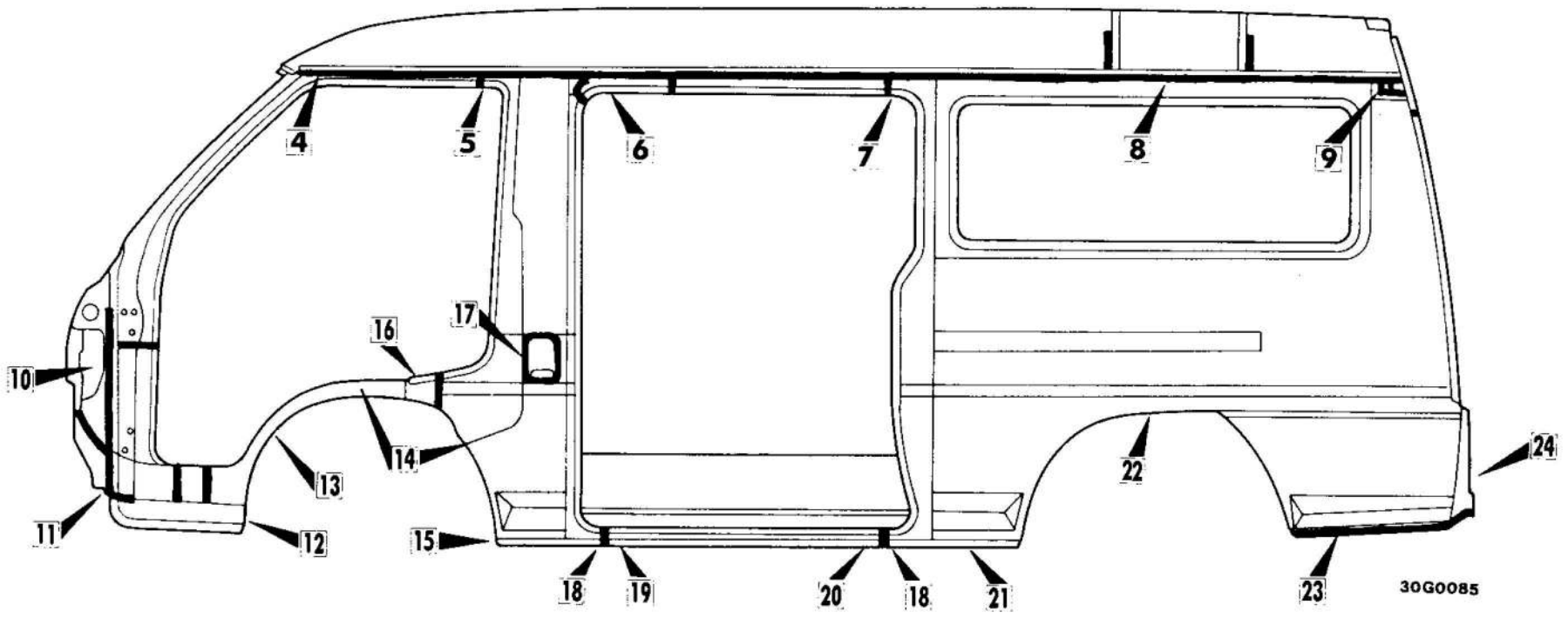
Long body vehicles

NOTE

For external surfaces such as the drip channels, pillars, clinches, etc., where the sealant application can be seen directly, and where it will be necessary that the appearance of the application be attractive, apply the sealant so that it is smooth and level, or wipe the surface after applying the sealant.

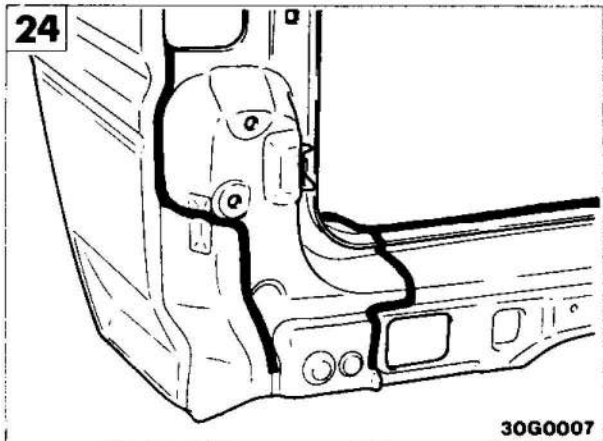
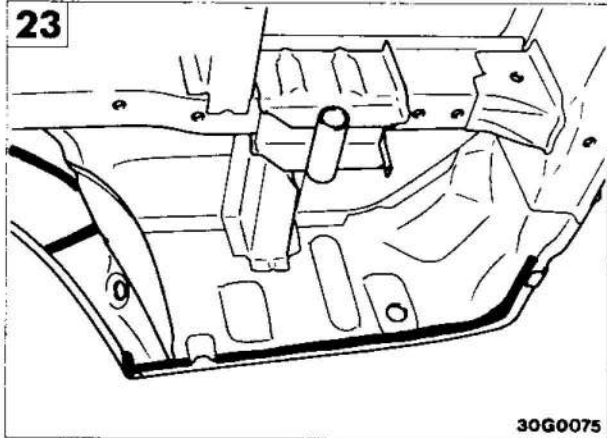
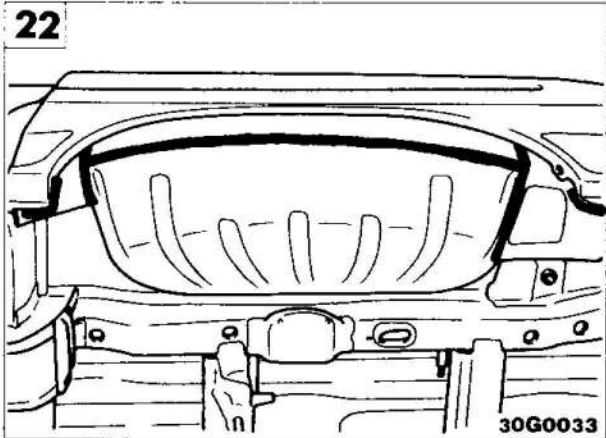
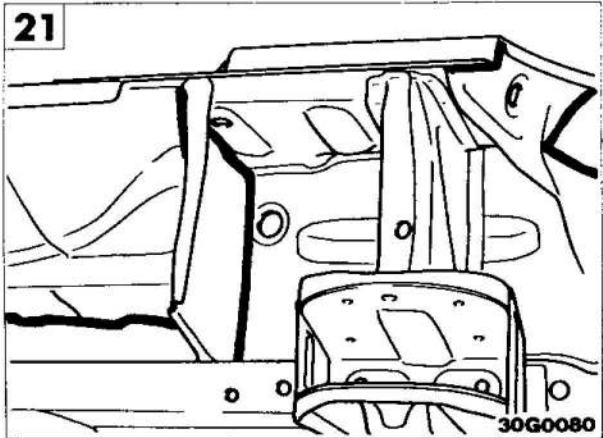
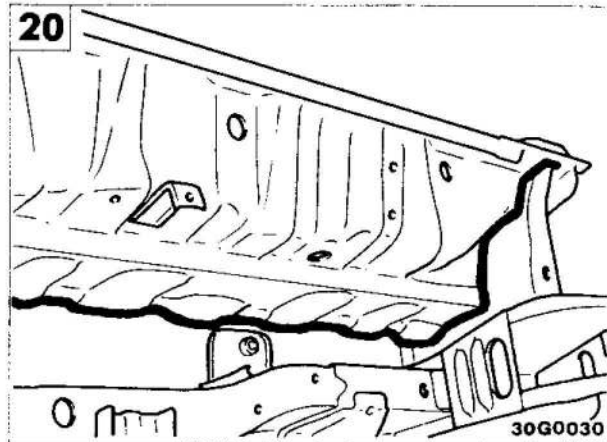
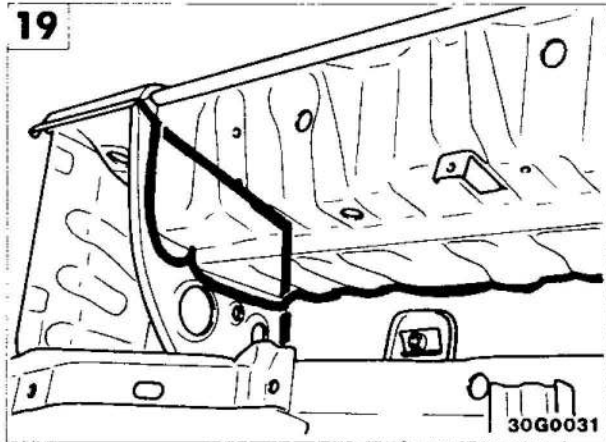
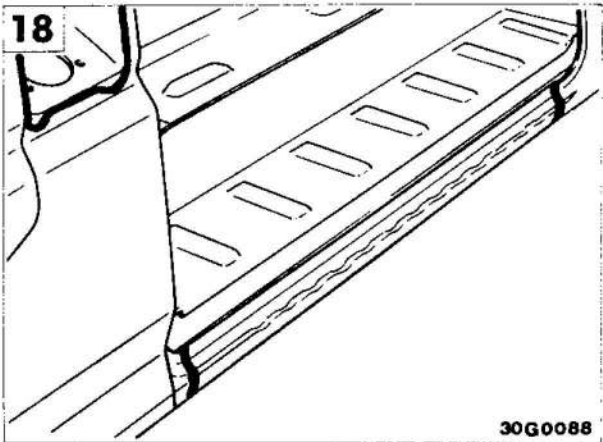


30G0087

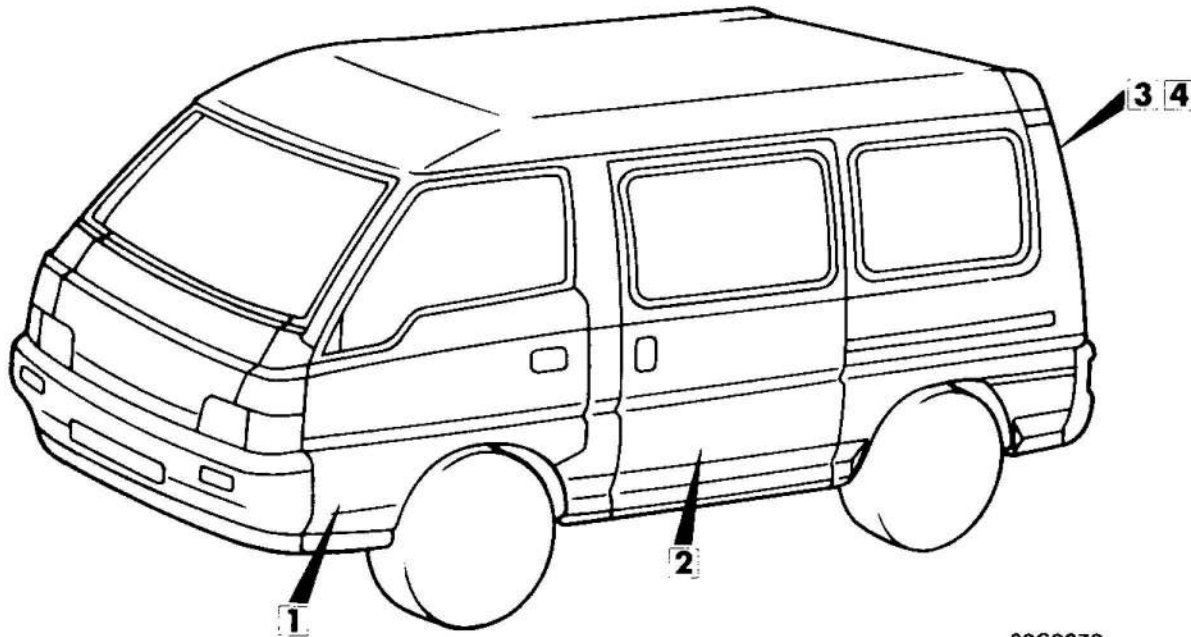


30G0085

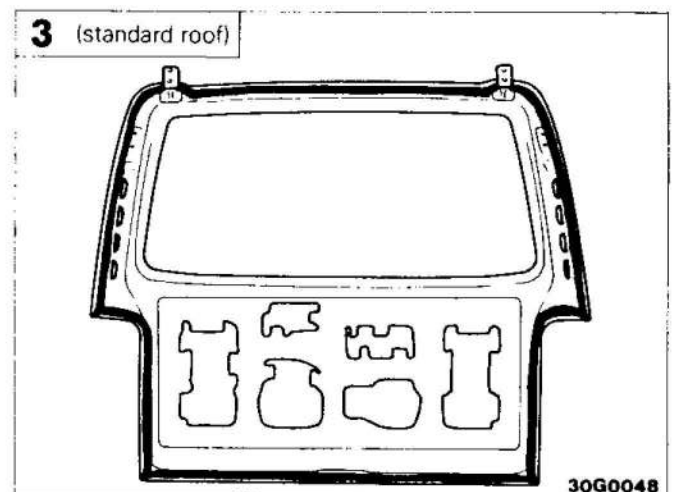
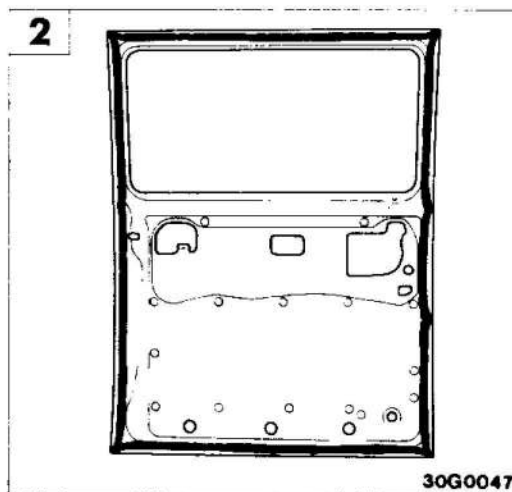
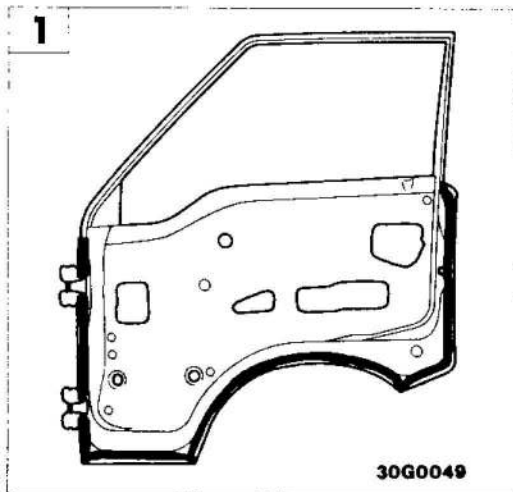
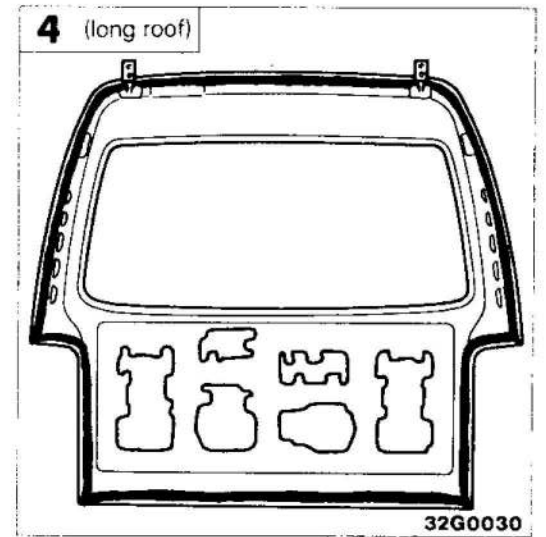
★ Sealant application location changed . . . . . 19 (see corresponding illustration for detail)



# DOORS AND TAILGATE



30G0070



# WAX INJECTION LOCATIONS

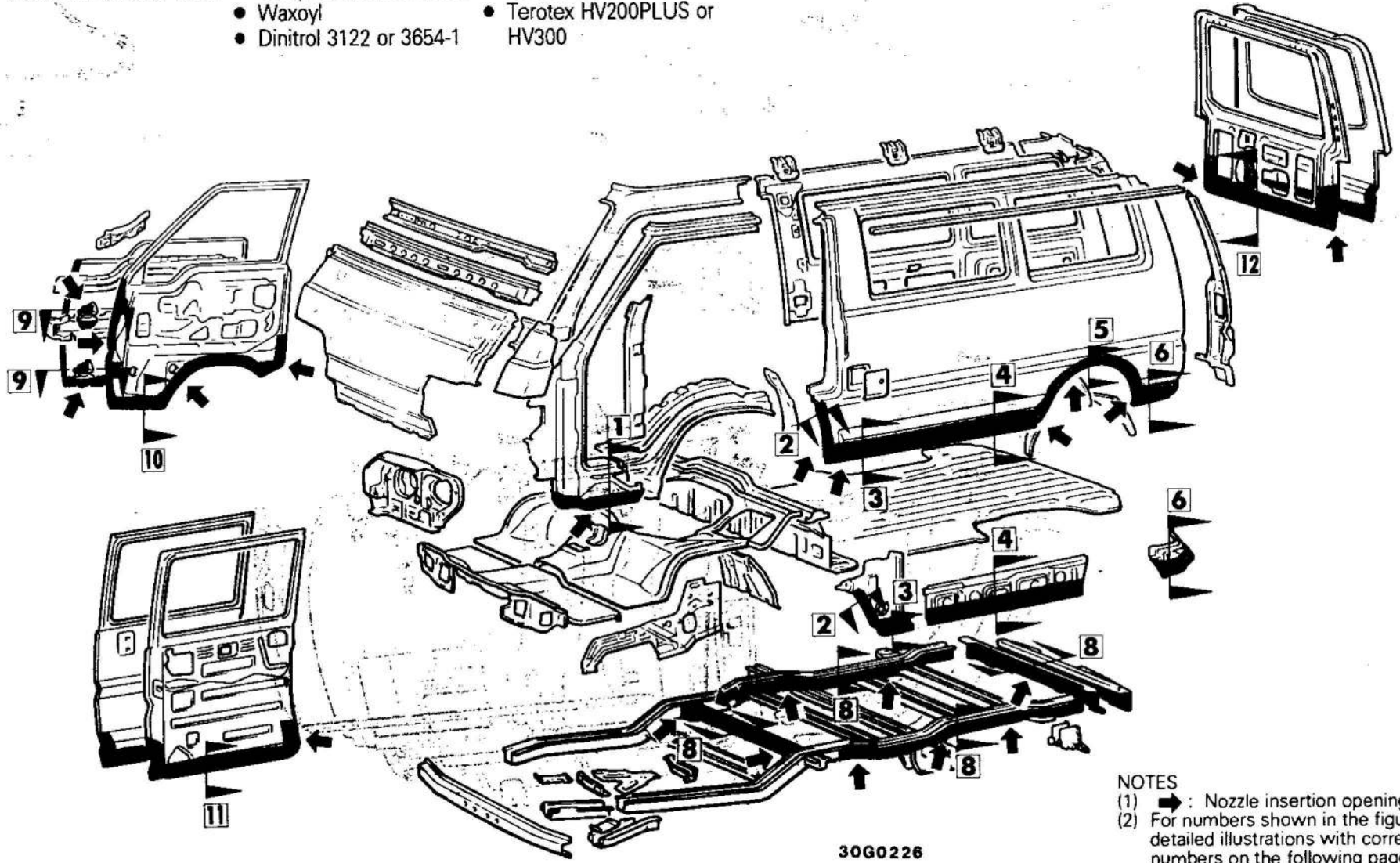
## Vehicle for Europe

In order to provide greater corrosion resistance, wax injection has been performed for the lower areas of the vehicle, such as the frame, the side sill, and other panels which are a hollow-construction. If any of these panels are replaced, wax injection must be performed for the new parts.

- Recommended wax:
- Tectyl 506, 506T or ML
  - Waxoyl
  - Dinitrol 3122 or 3654-1
  - Mercasol 831-ML
  - Terotex HV200PLUS or HV300

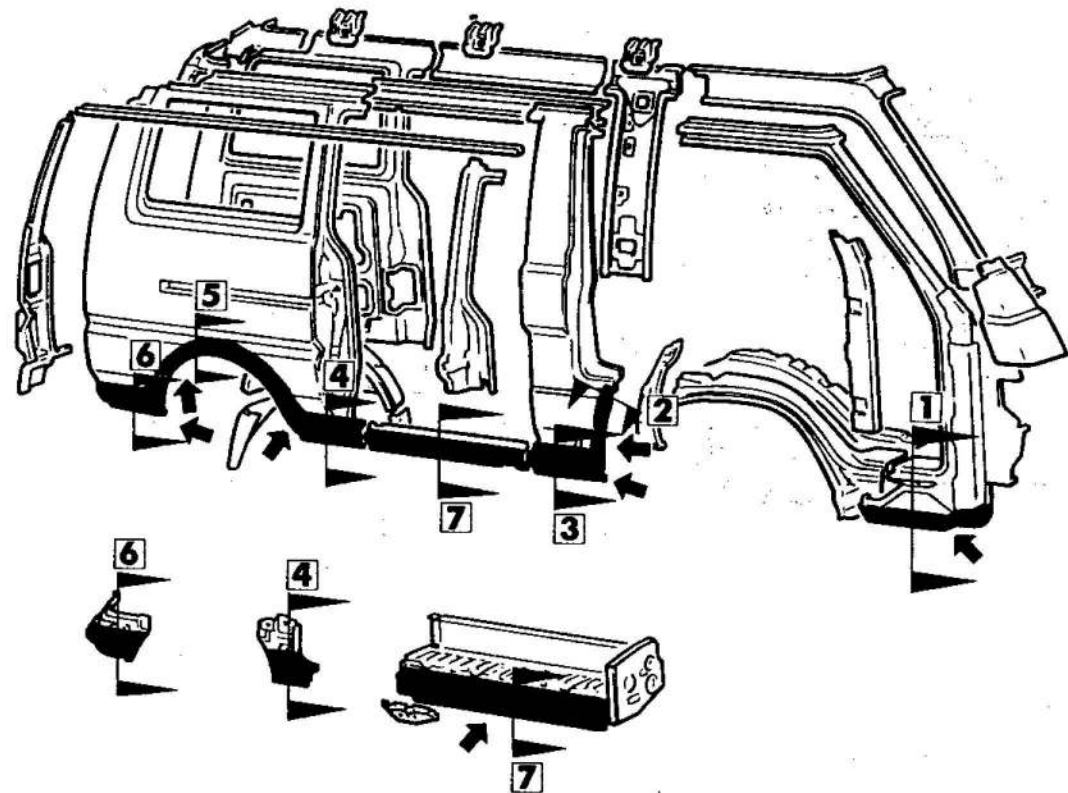
## NOTES REGARDING WAX INJECTION WORK

- Be careful that the wax does not get onto other parts. Especially if wax is to be injected into the lower part of the centre pillar and into the side sill, first remove the seat belt retractor and the door switch.
- For wax injection locations which have a rubber plug, do not forget to reinstall the rubber plug after the wax injection is completed.



NOTES  
 (1) ➡ : Nozzle insertion openings.  
 (2) For numbers shown in the figure, refer to detailed illustrations with corresponding numbers on the following pages.

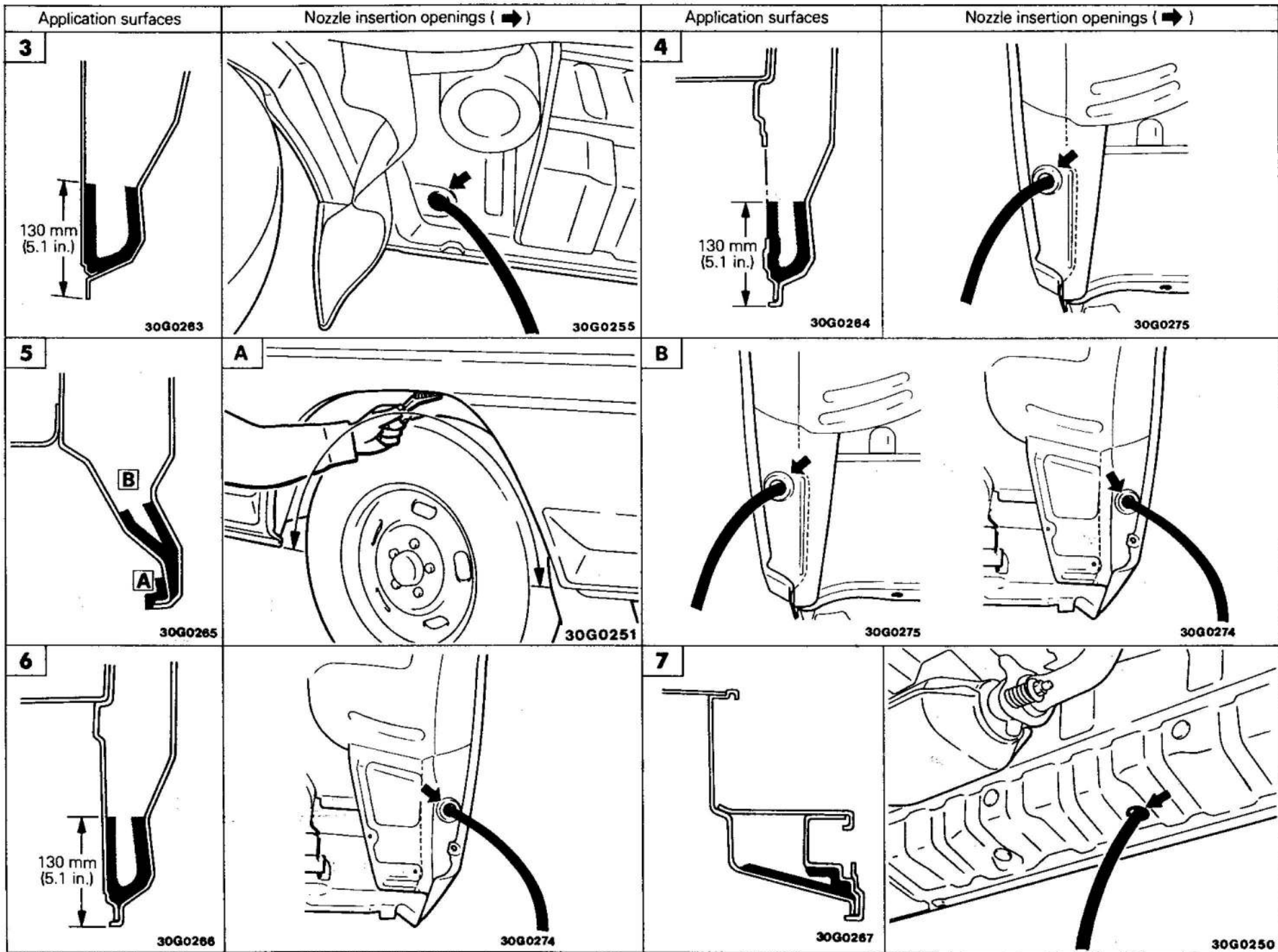
30G0226

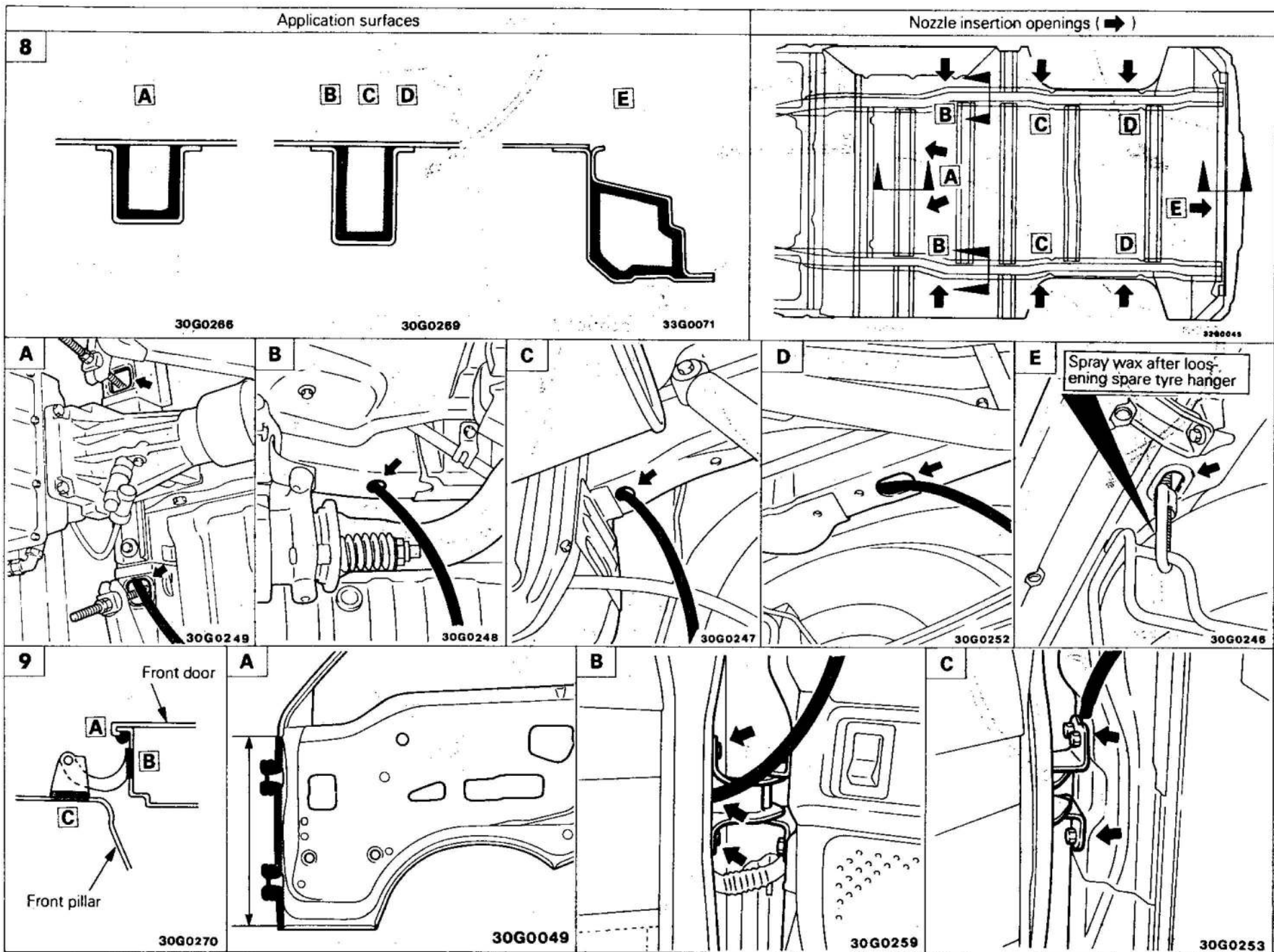


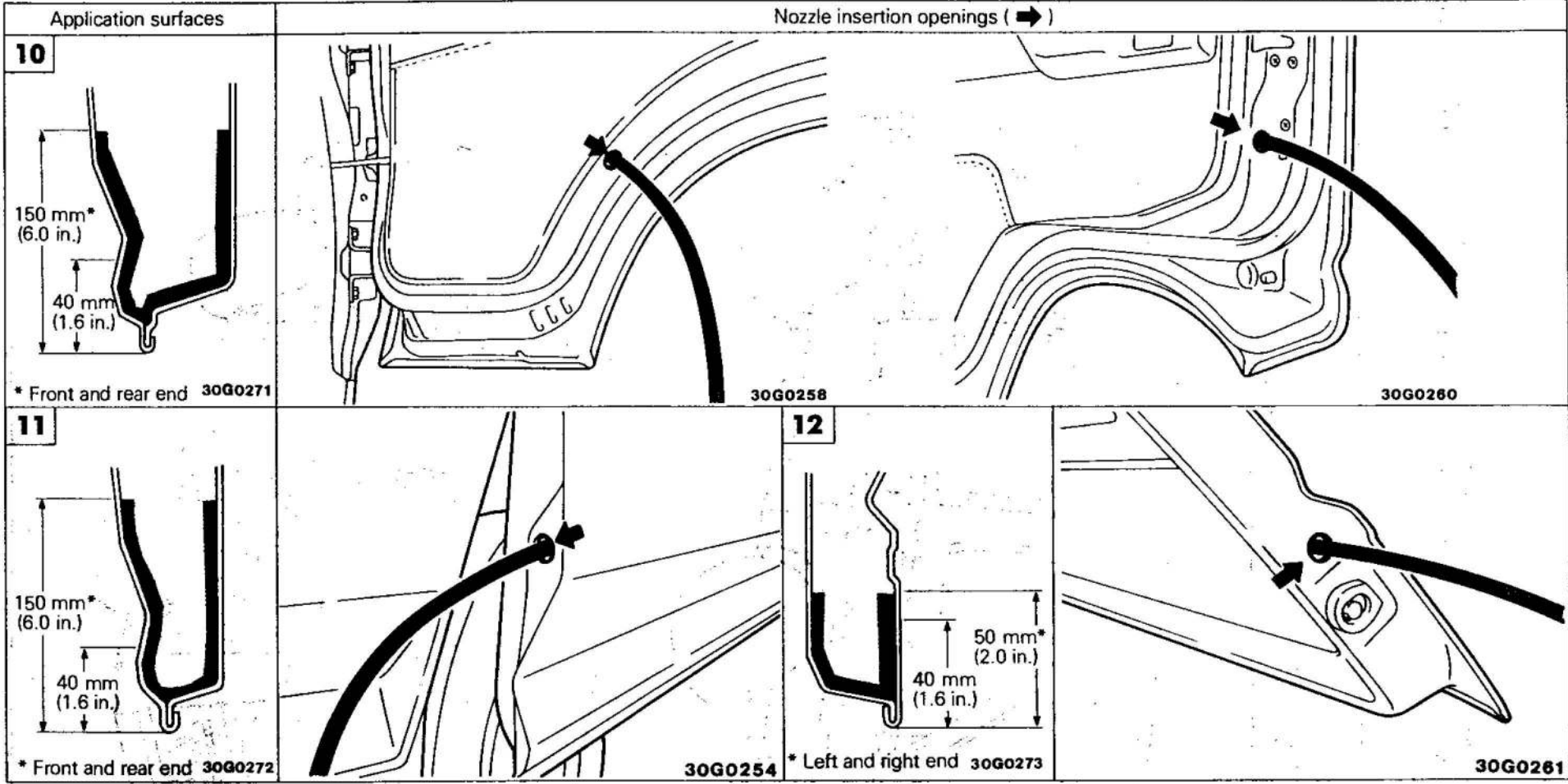
NOTES  
 (1) ➡ : Nozzle insertion openings.  
 (2) For numbers shown in the figure, refer to detailed illustrations with corresponding numbers on the following pages.

Application surfaces	Nozzle insertion openings ( ➡ )	Application surfaces	Nozzle insertion openings ( ➡ )
<p>1</p> <p>33G0003</p>	<p>30G0257</p>	<p>2</p> <p>30G0262</p>	<p>30G0256</p>







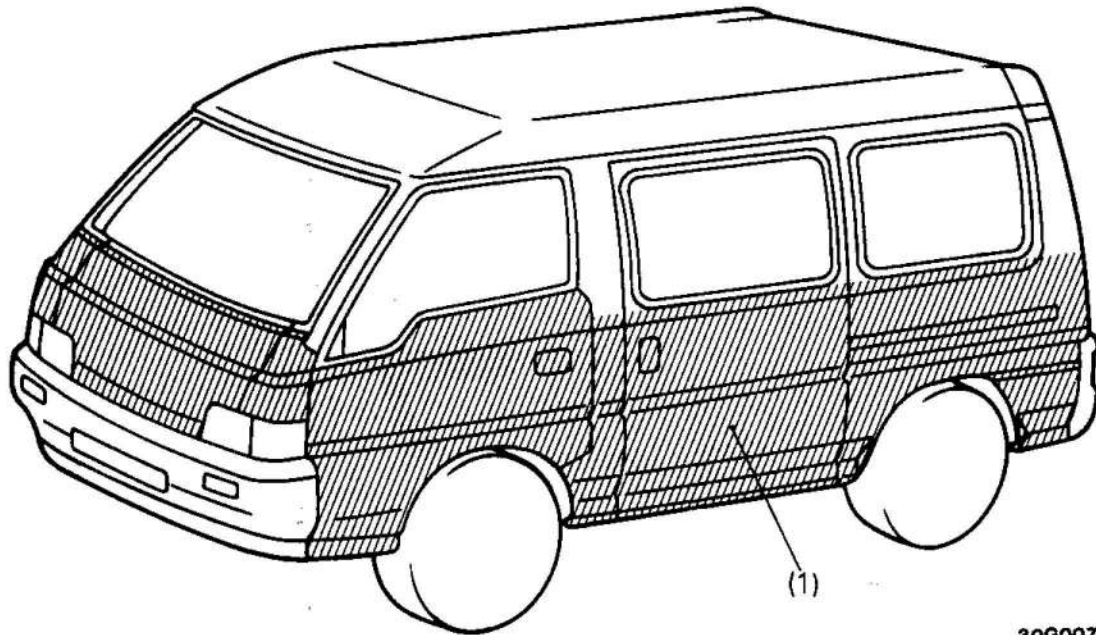


# ANTICORROSION PRIMER LOCATIONS

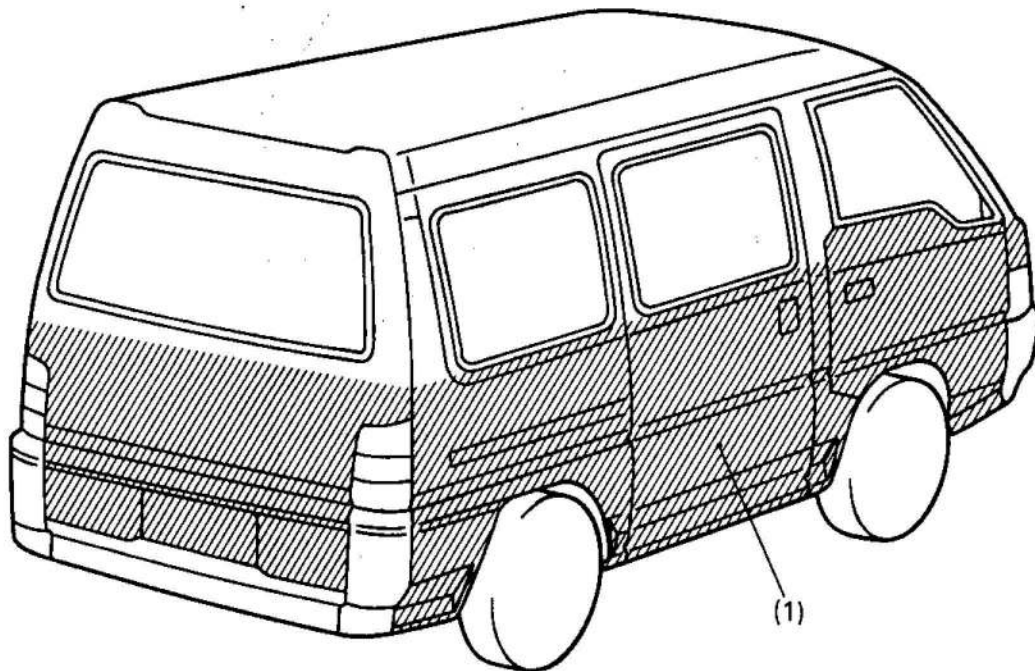
## Vehicles for Europe

An anticorrosion primer has been applied for the purposes of corrosion prevention and abrasion protection. If any of the panels are replaced, apply an anticorrosion primer between the under coat and the second coat, as shown in the following illustrations.


No.	Primer name	Recommended primer	Coating thickness
(1)	Stone chipping resistant primer	Glasurit FX89-8101 (polyester basis) or FT92-7102 (water basis) or equivalent	20 μ or more



30G0070

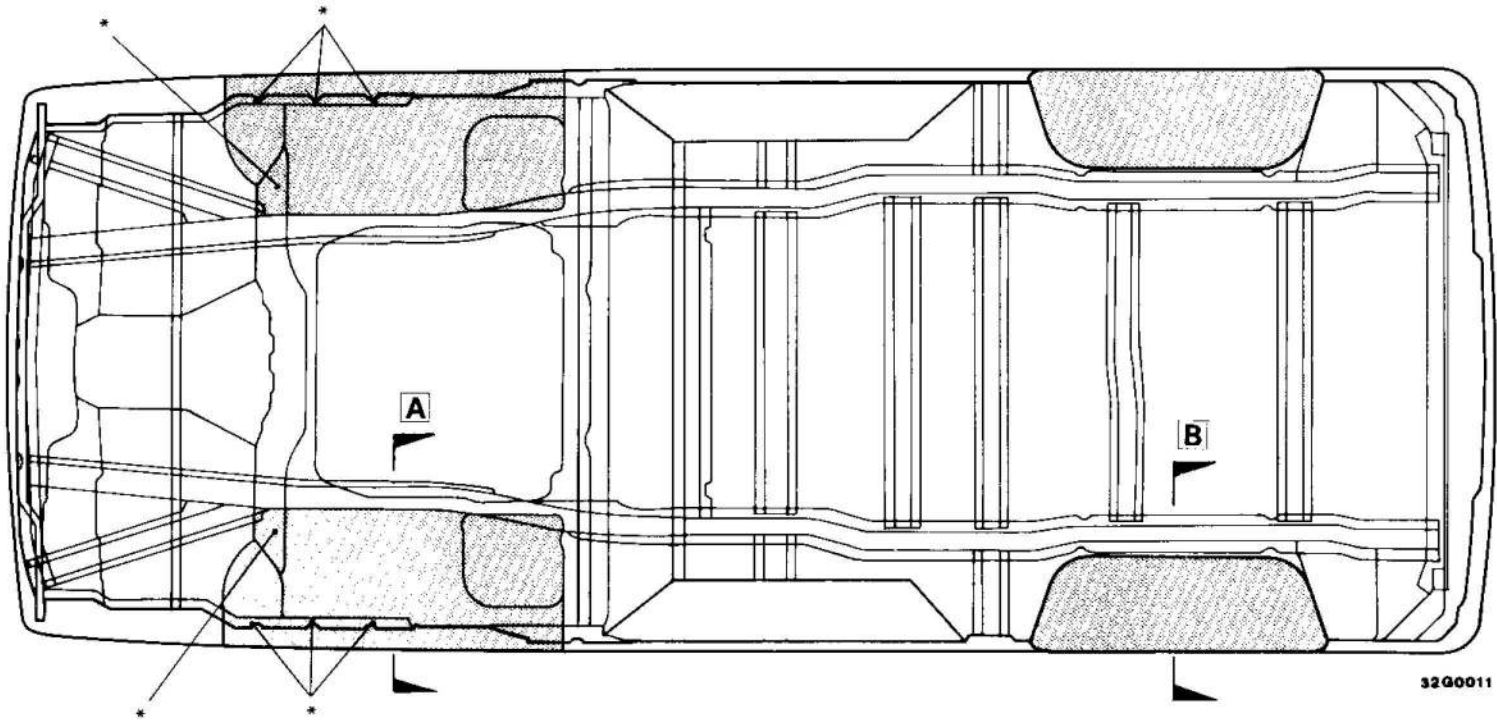


30G0070

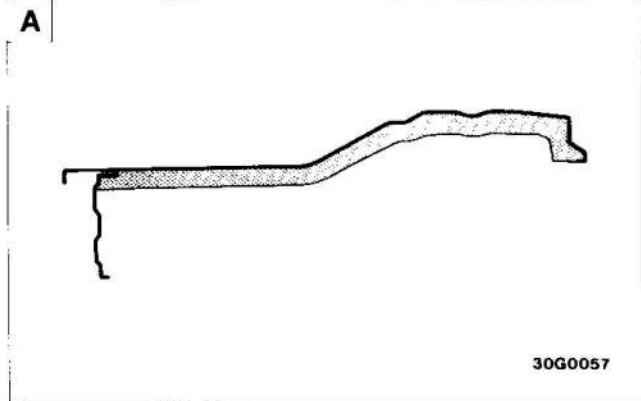
 : Stone chipping resistant primer

# UNDERCOAT APPLICATION LOCATIONS

In order to provide rust, corrosion, chipping, and vibration resistance, an undercoat is applied to certain areas of the underbody and doors. After completing body repairs, restore this undercoat if necessary.

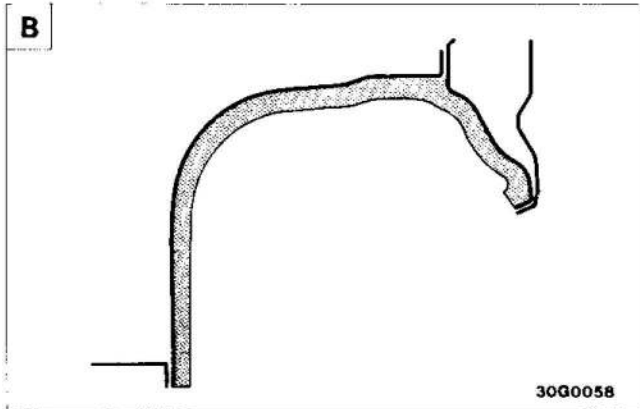


: Undercoating [film thickness of at least 0.8 mm (0.03 in.)]



### NOTE

\*Because parts are to be mounted in these locations, mask the location before applying the undercoat.

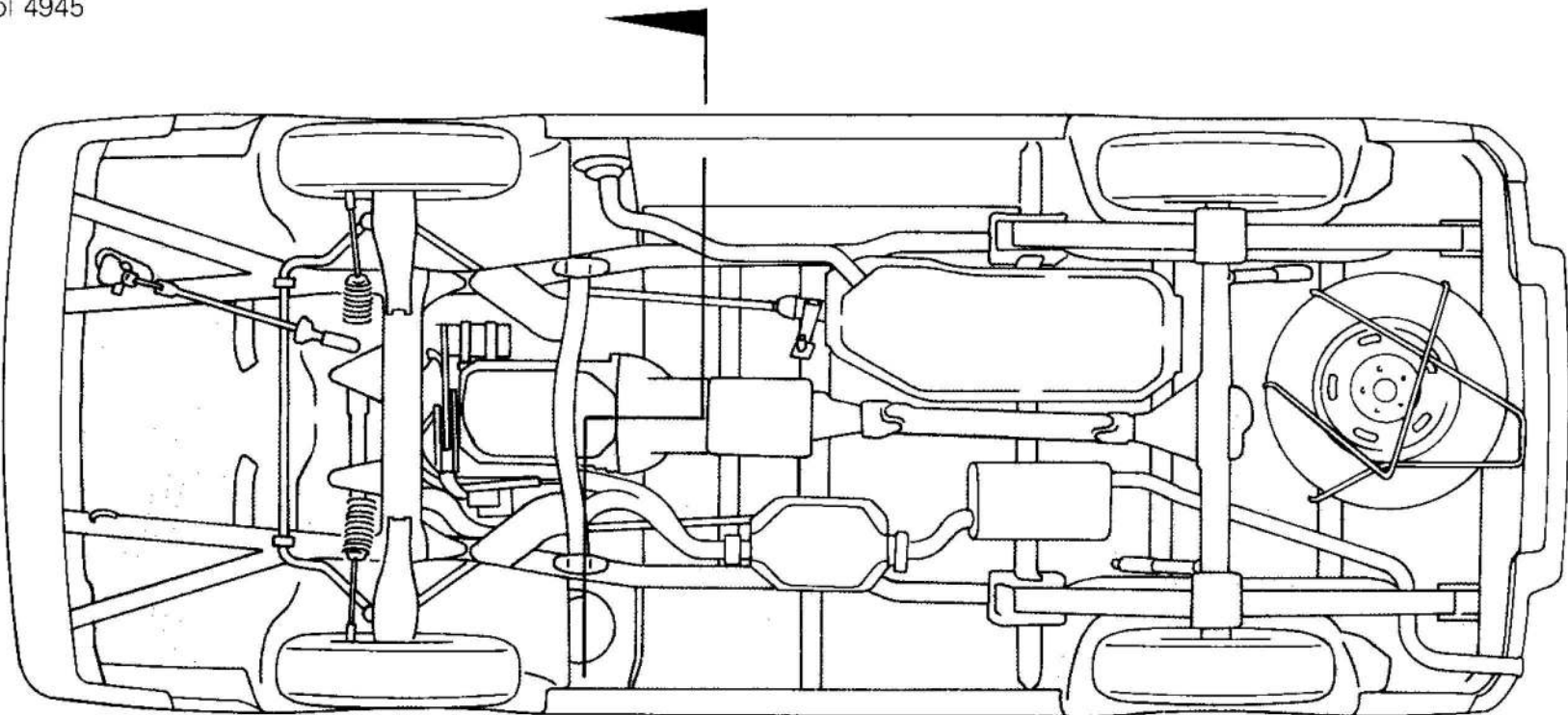


## UNDERBODY ANTICORROSION AGENT LOCATIONS

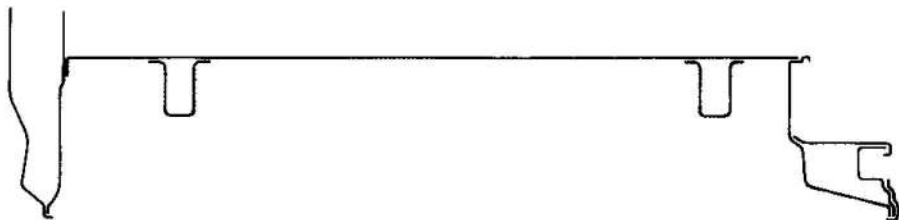
In order to provide a greater corrosion resistance, underbody corrosion prevention treatment should be performed after undercoat application. After completing body repairs, restore this underbody corrosion prevention treatment as indicated in the illustration if necessary.

Recommended agent:

- Tectyl 506T, 506 or S
- Waxoyl
- Dinitrol 4945
- Terotex WAX
- Mercasol NON-DRIP




00G0158



### NOTE

- (1) Take care not to permit the anticorrosion agent to come in contact with brake discs, tires, exhaust pipes and mufflers.
- (2) Underbody parts which are not easily accessible because of the installation location and/or other parts should as far as possible be coated with the anti-corrosion agent.

 : 100  $\mu$  or more

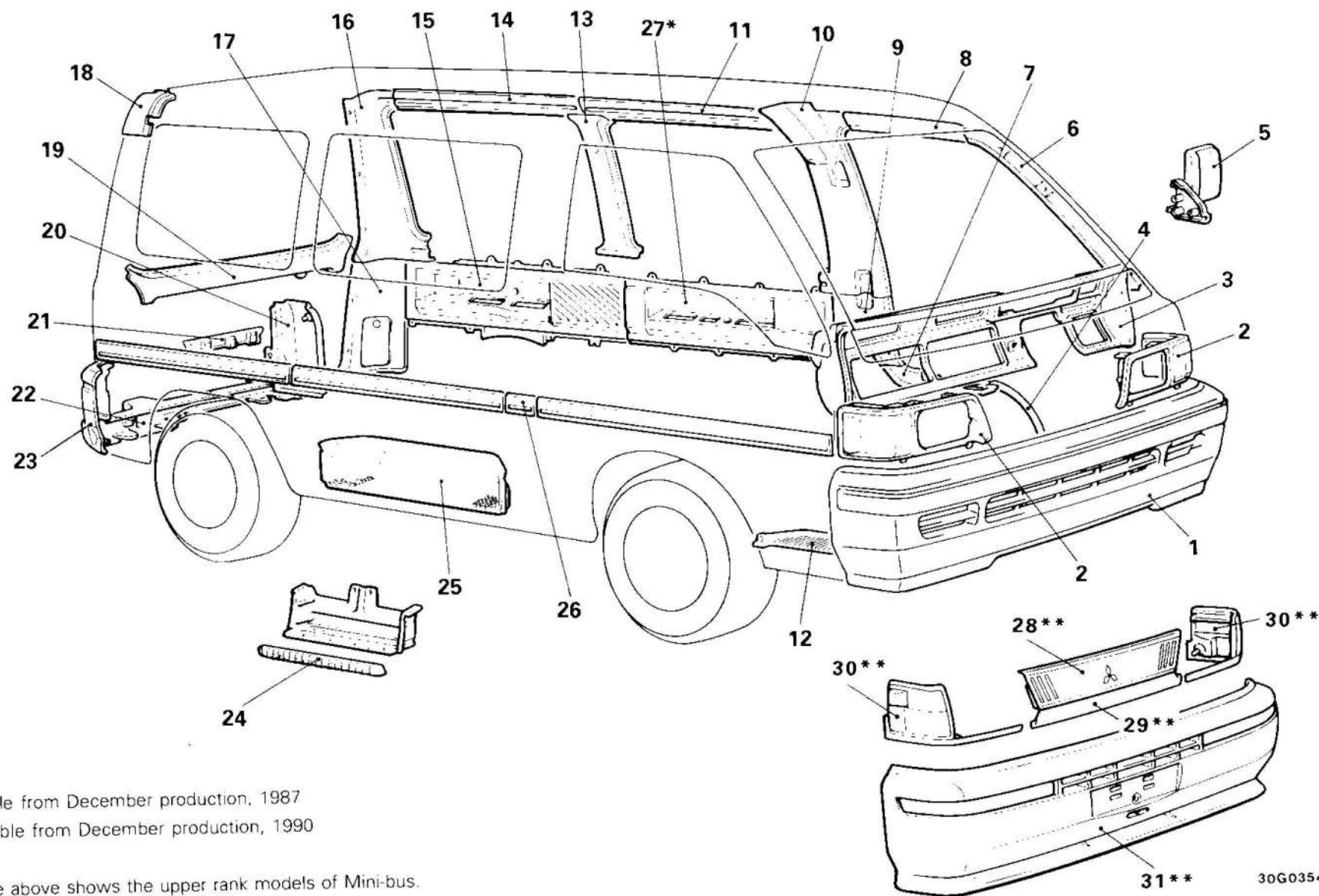
30G0243

A series of horizontal dashed lines for handwritten notes, spanning the width of the page.

## LOCATION OF SYNTHETIC-RESIN PARTS

The location and material of each of the principal synthetic-resin parts are shown below:

### Vehicles for Europe



\*Applicable from December production, 1987

\*\*Applicable from December production, 1990

#### NOTE

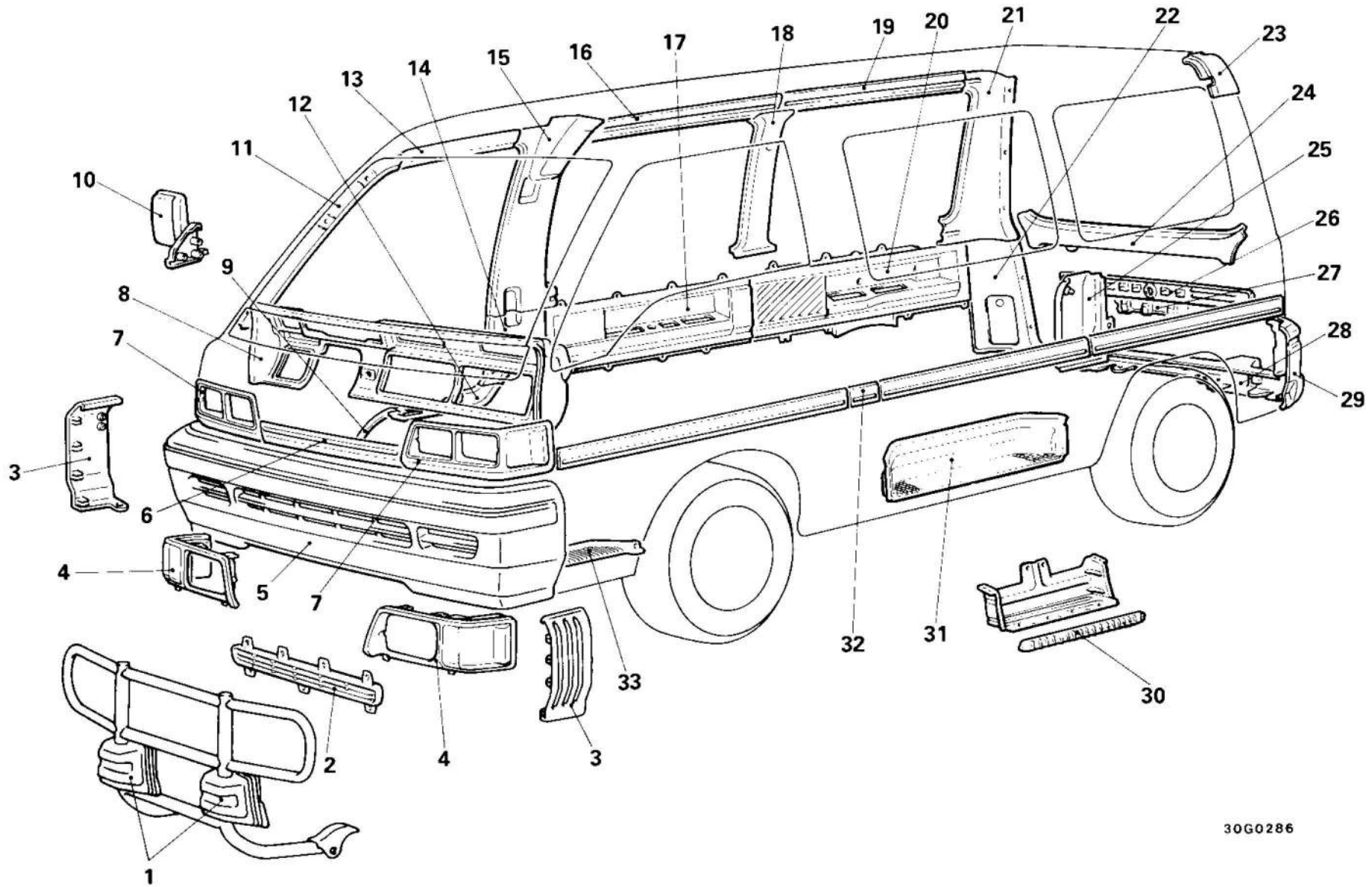
The figure above shows the upper rank models of Mini-bus.



No.	Part name	Name of resin	Abbreviatlon
1.	Front bumper	Polypropylene	PP
2.	Headlamp bezel	AAS resin	AAS
3.	Instrument panel pad	Polyvinyl chloride	PVC
4.	Scuff plate	Polypropylene	PP
5.	Outside rear view mirror	Polypropylene	PP
6.	Front pillar trim	Polypropylene	PP
7.	Scuff plate extension	Polypropylene	PP
8.	Front side roof trim	ABS resin	ABS
9.	Centre pillar trim, lower	Polypropylene	PP
10.	Centre pillar trim, upper	Polypropylene	PP
11.	Rear side roof trim	ABS resin	ABS
12.	Front step cover	Polypropylene	PP
13.	Rear pillar trim, upper	Polypropylene	PP
14.	Quarter side roof trim	ABS resin	ABS
15.	Quarter trim	ABS resin	ABS
16.	Gate pillar trim, upper	Polypropylene	PP
17.	Gate pillar trim, lower	Polypropylene	PP
18.	D-pillar cover	ABS resin	ABS
19.	Tailgate trim, upper	Polypropylene	PP
20.	Rear pillar trim, lower (five door models)	Polypropylene	PP
21.	Tailgate garnish	ABS resin	ABS
22.	Rear centre bumper	Polypropylene	PP
23.	Rear side bumper	Polypropylene	PP
24.	Rear door step cover (4WD models)	Thermoplastic elastomer	TPE
25.	Rear door step panel	Polypropylene	PP
26.	Side protector moulding	Polyvinyl chloride	PVC
27.*	Rear side trim (four door models)	ABS resin	ABS
28.**	Front end garnish upper	Polymethyl methacrylate	PMMA
29.**	Front end garnish lower	ABS-resin	ABS
30.**	Front combination lamp	ABS-resin	ABS
31.**	Front bumper	Polypropylene	PP

\* Applicable from December production, 1987

\*\* Applicable from December production, 1990



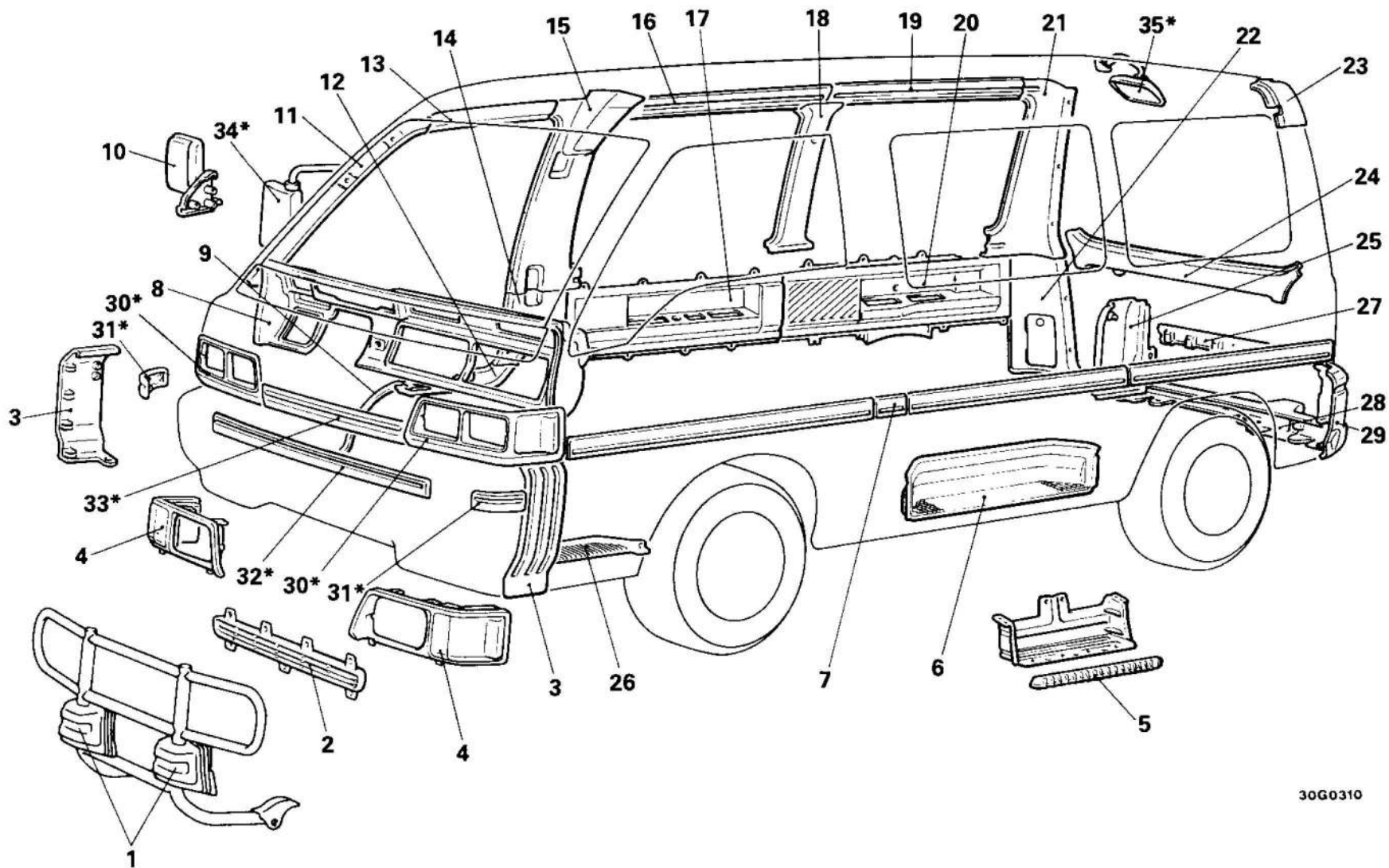
30G0286

NOTE  
The figure above shows the upper rank models of Mini bus.

No.	Part name	Name of resin	Abbreviation
1.	Bumper guard (4WD vehicles for General Export)	Polypropylene	PP
2.	Front bumper grille (4WD vehicles for General Export)	Polypropylene	PP
3.	Front side bumper (vehicles for General Export)	Polypropylene	PP
4.	Headlamp bezel (vehicles for General Export)	AAS resin	AAS
5.	Front bumper (vehicles for Australia)	Polypropylene	PP
6.	Front end garnish (vehicles for Australia)	Polypropylene	PP
7.	Headlamp bezel (vehicles for Australia)	AAS resin	AAS
8.	Instrument panel pad	Polyvinyl chloride	PVC
9.	Scuff plate	Polypropylene	PP
10.	Outside rear view mirror	Polypropylene	PP
11.	Front pillar trim	Polypropylene	PP
12.	Scuff plate extension	Polypropylene	PP
13.	Front side roof trim	ABS resin	ABS
14.	Centre pillar trim, lower	Polypropylene	PP
15.	Centre pillar trim, upper	Polypropylene	PP
16.	Rear side roof trim	ABS resin	ABS
17.	Rear side trim (four door models)	ABS resin	ABS
18.	Rear pillar trim, upper	Polypropylene	PP
19.	Quarter side roof trim	ABS resin	ABS
20.	Quarter trim	ABS resin	ABS
21.	Gate pillar trim, upper	Polypropylene	PP
22.	Gate pillar trim, lower	Polypropylene	PP
23.	D-pillar cover	ABS resin	ABS
24.	Tailgate trim, upper	Polypropylene	PP
25.	Rear pillar trim, lower (five door models)	Polypropylene	PP
26.	Tailgate garnish, upper (vehicles for Australia)	Polypropylene	PP
27.	Tailgate garnish	ABS resin	ABS
28.	Rear centre bumper	Polypropylene	PP
29.	Rear side bumper	Polypropylene	PP
30.	Rear door step cover (4WD models)	Thermoplastic elastomer	TPE
31.	Rear door step panel	Polypropylene	PP
32.	Side protector moulding	Polyvinyl chloride	PVC
33.	Front step cover	Polypropylene	PP

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## Vehicles for General Export



30G0310

\*Applicable from July production, 1987

## NOTE

The figure above shows the upper rank models of Mini-bus.

No.	Part name	Name of resin	Abbreviation
1.	Bumper guard (4WD vehicles)	Polypropylene	PP
2.	Front bumper grille (4WD vehicles)	Polypropylene	PP
3.	Front side bumper	Polypropylene	PP
4.	Headlamp bezel (two rectangular headlamps)	AAS resin	AAS
5.	Rear door step cover (4WD vehicles)	Thermoplastic elastomer	TPE
6.	Rear door step panel	Polypropylene	PP
7.	Side protector moulding	Polyvinyl chloride	PVC
8.	Instrument panel pad	Polyvinyl chloride	PVC
9.	Scuff plate	Polypropylene	PP
10.	Outside rear view mirror	Polypropylene	PP
11.	Front pillar trim	Polypropylene	PP
12.	Scuff plate extension	Polypropylene	PP
13.	Front side roof trim	Polypropylene	PP
14.	Center pillar trim, lower	ABS resin	ABS
15.	Center pillar trim, upper	Polypropylene	PP
16.	Rear side roof trim	Polypropylene	PP
17.	Rear side trim (four door models)	ABS resin	ABS
18.	Rear pillar trim, upper	ABS resin	ABS
19.	Quarter side roof trim	Polypropylene	PP
20.	Quarter trim	ABS resin	ABS
21.	Gate pillar trim, upper	ABS resin	ABS
22.	Gate pillar trim, lower	Polypropylene	PP
23.	D-pillar cover	Polypropylene	PP
24.	Tailgate trim, upper	ABS resin	ABS
25.	Rear pillar trim, lower (five door models)	Polypropylene	PP
26.	Front step cover	Polypropylene	PP
27.	Tailgate garnish	Polypropylene	PP
28.	Rear center bumper	ABS resin	ABS
29.	Rear side bumper	Polypropylene	PP
30.*	Headlamp bezel (four rectangular headlamps)	Polypropylene	PP
31.*	Front bumper side protector	AAS resin	AAS
32.*	Front bumper center protector	Polypropylene	PP
33.*	Front end garnish	Polypropylene	PP
34.*	Outside rear view mirror (western type)	Polypropylene	PP
35.*	Rear under mirror	Polypropylene	PP

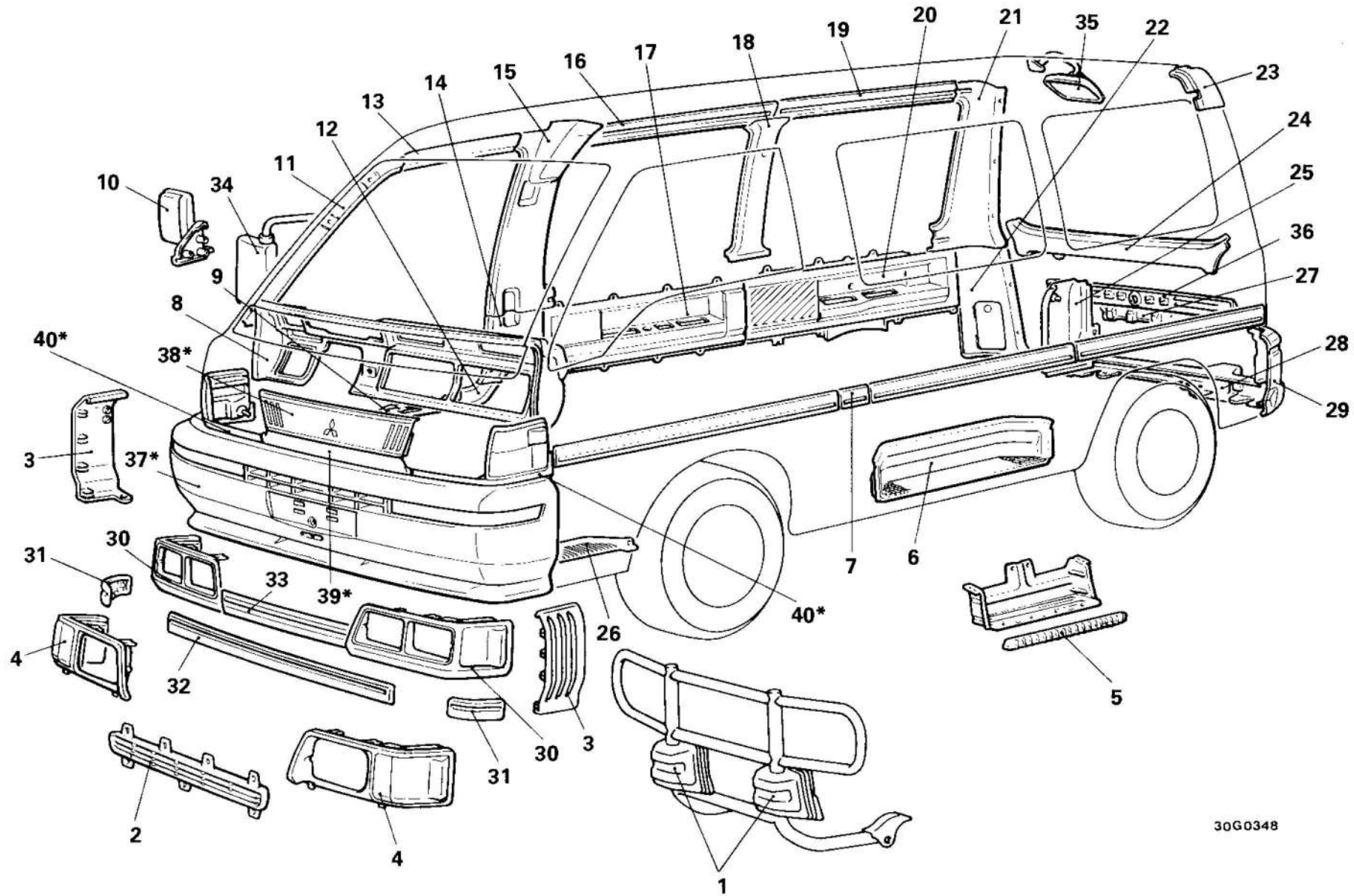
\*Applicable from July production, 1987

Vehicles for General Export and Australia  
(built from July 1990)

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Jun. 1990

PWWE8608-H



30G0348

\* Vehicles built from July 1990

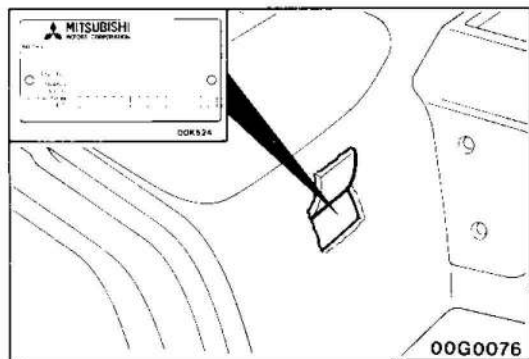
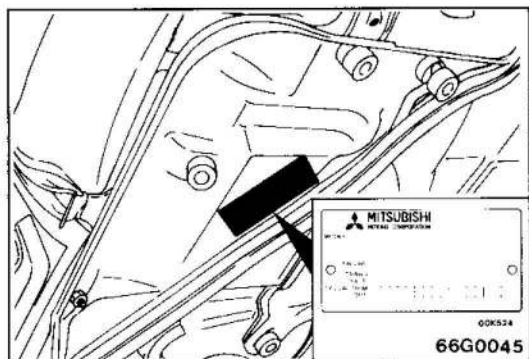
## NOTE

The figure above shows the upper rank models of Mini-bus.

ADDED

No.	Part name	Name of resin	Abbreviation
1.	Bumper guard (4WD vehicles for General Export)	Polypropylene	PP
2.	Front bumper grille (4WD vehicles for General Export)	Polypropylene	PP
3.	Front side bumper (vehicles for General Export)	Polypropylene	PP
4.	Headlamp bezel (two rectangular headlamps)	AAS resin	AAS
5.	Rear door step cover (4WD vehicles)	Thermoplastic elastomer	TPE
6.	Rear door step panel	Polypropylene	PP
7.	Side protector moulding	Polyvinyl chloride	PVC
8.	Instrument panel pad	Polyvinyl chloride	PVC
9.	Scuff plate	Polypropylene	PP
10.	Outside rear view mirror	Polypropylene	PP
11.	Front pillar trim	Polypropylene	PP
12.	Scuff plate extension	Polypropylene	PP
13.	Front side roof trim	ABS resin	ABS
14.	Center pillar trim, lower	Polypropylene	PP
15.	Center pillar trim, upper	Polypropylene	PP
16.	Rear side roof trim	ABS resin	ABS
17.	Rear side trim (four door models)	ABS resin	ABS
18.	Rear pillar trim, upper	Polypropylene	PP
19.	Quarter side roof trim	ABS resin	ABS
20.	Quarter trim	ABS resin	ABS
21.	Gate pillar trim, upper	Polypropylene	PP
22.	Gate pillar trim, lower	Polypropylene	PP
23.	D-pillar cover	ABS resin	ABS
24.	Tailgate trim, upper	Polypropylene	PP
25.	Rear pillar trim, lower (five door models)	Polypropylene	PP
26.	Front step cover	Polypropylene	PP
27.	Tailgate garnish	ABS resin	ABS
28.	Rear center bumper	Polypropylene	PP
29.	Rear side bumper	Polypropylene	PP
30.	Headlamp bezel (four rectangular headlamps)	AAS resin	AAS
31.	Front bumper side protector (vehicles for General Export)	Polypropylene	PP
32.	Front bumper center protector (vehicles for General Export)	Polypropylene	PP
33.	Front end garnish	Polypropylene	PP
34.	Outside rear view mirror (western type vehicles for General Export)	Polypropylene	PP
35.	Rear under mirror (vehicles for General Export)	Polypropylene	PP
36.	Tailgate garnish, upper (vehicles for Australia)	Polypropylene	PP
37.*	Front bumper	Polypropylene	PP
38.*	Front end garnish upper	Polymethyl methacrylate	PMMA
39.*	Front end garnish lower	ABS resin	ABS
40.*	Front combination lamp	ABS resin	ABS

\* Applicable from July production, 1990



## BODY COLOUR

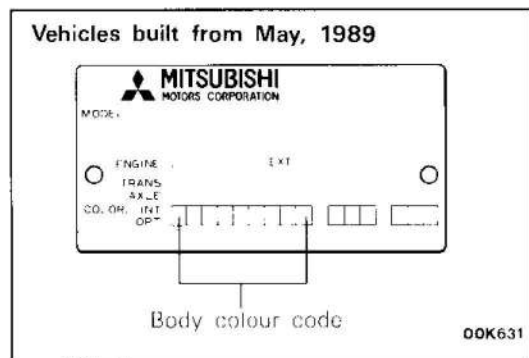
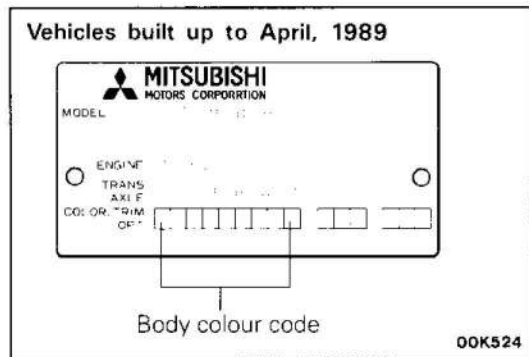
### BODY COLOUR CODE

#### Vehicle for Europe

The body colour code is imprinted on the vehicle information code plate, which is mounted on the underside of the front seat pan.

#### Vehicles for General Export and Australia

The body colour code is imprinted on the vehicle information code plate, which is mounted on the front floor pan (B).



### BODY COLOUR CODE INTERPRETATION

The information contained in the body colour code is explained in the body colour charts.

#### NOTE

For two-tone body colours, the combination code and the colour codes are listed consecutively.

#### Body Inner Colours

Body inner colours are similar to the body outer colours. If refinishing paint to body inner panels is necessary, use the same as those for body outer colours or the equivalent.



**BODY COLOUR CHARTS**

Check the vehicle's body colour code, and then use this body colour chart to determine the refinishing paint supplier from which the colour can be purchased.

**Vehicles for Europe and Australia** (Vehicles built up to November, 1988)

(M): Metallic paint

Paint used by manufacturer	Body colour code	Body colour	Colour number	Body colour name
	W61	WHITE	AC10461	Pearl White
	B24 <sup>☆☆</sup>	BLUE	AC10624	Leman Blue
	S70	BEIGE	AC10670	Florence Beige
	G82	GREEN	AC10682	Frano Green
	X05 <sup>☆☆</sup>	BLACK	AC10705	Straight Black
	W30	WHITE	AC10730	New Polar White
	H43	SILVER (M)	AC10743	Eiger Silver (M)
	R54	RED	AC10754	Maple Red
	B80	BLUE (M)	AC10780	Coral Blue (M)
	L83	GRAY (M)	AC10783	Palermo Gray (M)
	G06	GREEN (M)	AC10806	Yosemite Green (M)
	Y32 <sup>☆☆</sup>	YELLOW	AC17032	Arizona Cream
	B09 <sup>*</sup>	BLUE	AC10609	Midnight Blue
	B6W <sup>☆☆</sup>	B80	BLUE (M)	AC10780
W30		WHITE	AC10730	New Polar White
G2L <sup>*</sup>	L83	GRAY (M)	AC10783	Palermo Gray (M)
	G06	GREEN (M)	AC10806	Yosemite Green (M)
H9H <sup>*</sup>	H39	GRAY (M)	AC10639	Kaiser Silver (M)
	H43	SILVER (M)	AC10743	Eiger Silver (M)

Body colour code	Refinishing paint supplier						
	ICI	DU PONT	AKUZO	GLASURIT	SPIES HECKER	SHERWOOD PARSONS	
W61	EE40	44889	MIT4031	MIT102	19480	CM25	
B24 <sup>☆☆</sup>	ME27	L8654	MIT5665	MIT529	58645	62785	
S70	JC14	L8139	MIT7285	MIT113	18544	CM101	
G82	JJ27	H8221	MIT6366	MIT617	68196	35742	
X05 <sup>☆☆</sup>	KD64	99	MIT4237	MIT905	79335	CM134	
W30	KD65	G8488	MIT4238	MIT906	17062	CM135	
H43	1635B	L8491	MIT9007	MIT716/00C	95664	61382/M	
R54	KK72	L8497	MIT3654	MIT327	38235	61384	
B80	A661B	L8640	MIT9066	MIT520/00C	95337	CM130	
L83	A298B	L8655	MIT9049	MIT719/00C	96141	91707/M	
G06	A662B	G8862	MIT9094	MIT626/00C			
Y32 <sup>☆☆</sup>	GC21	G8084	MIT1116	MIT107	18155	CM71	
B09 <sup>*</sup>							
B6W <sup>☆☆</sup>	B80	A661B	L8640	MIT9066	MIT520/00C	95337	CM130
	W30	KD65	G8488	MIT4238	MIT906	17062	CM135
G2L <sup>*</sup>	L83	A298B	L8655	MIT9049	MIT719/00C	96141	91707/M
	G06	A662B	G8862	MIT9094	MIT626/00C		
H9H <sup>*</sup>	H39	0869B	W8223	MIT9826	MIT709/00C	95083	CM120
	H43	1635B	L8491	MIT9007	MIT716/00C	95664	61382/M

\* Two-tone body colour

☆☆ Applicable from November production, 1987

☆☆ Applicable through October production, 1987

Refinishing paint for repairs	Body colour code	Refinishing paint supplier			
		AULT WIBORG	BASF	SHERWIN WILLIAMS	INMONT
	W61	32562	37564	34-34059	MI-0044
	B24**	37246	44223	34-38591	MI-0132
	S70	35343	40679	34-32545	MI-0146
	G82	35742	41288	34-33901	MI-0157
	X05**	5030	43108	L10B1738	MI-0185
	W30	36284	43109	34-34635	MI-0182
	H43	81523/M	43486	34-35029	MI-0190
	R54	36528	43488	34-35168	MI-0191
	B80	92189/M	44666	34-34630	MI-0224
	L83	81756/M	44224	34-36793	MI-0218
	G06	92188/M	44665		MI-0225
	Y32**				
	B09**				MI-0240
B6W**	B80	92189/M	44666	34-34630	MI-0224
	W30	36284	43109	34-34635	MI-0182
G2L*	L83	81756/M	44224	34-36793	MI-0218
	G06	92188/M	44665		MI-0225
H9H*	H39	81116/M	42077	34-33445	MI-0167
	H43	81523/M	43486	34-35029	MI-0190

## Vehicles for General Export (Vehicles built up to June, 1989)

(M): Metallic paint

Paint used by manufacturer	Body colour code	Body colour	Colour number	Body colour name
		B09	BLUE	AC10609
	G82	GREEN	AC10682	Frano Green
	L83	GRAY (M)	AC10783	Palermo Gray (M)
	B80*	BLUE (M)	AC10780	Coral Blue (M)
	G47*	GREEN (M)	AC10847	Ivy Green (M)
	H39*	GRAY (M)	AC10639	Kaizer Silver (M)
	S49*	BEIGE	AC10849	Bohemia Beige
	W09*	WHITE	AC10809	Sophia White
G2W*	W09	WHITE	AC10809	Sophia White
	G47	GREEN (M)	AC10847	Ivy Green (M)
	W61**	WHITE	AC10461	Pearl White
	S70**	BEIGE	AC10670	Florence Beige
	W30**	WHITE	AC10730	New Polar White
	R54**	RED	AC10754	Maple Red
	G06**	GREEN (M)	AC10806	Yosemite Green (M)
G2L***	L83	GRAY (M)	AC10783	Palermo Gray (M)
	G06	GREEN (M)	AC10806	Yosemite Green (M)

\* Two-tone body colour

\* Applicable from '89 models

\*\* Applicable before '89 models

\* Applicable from November production, 1987

\*\* Applicable through October production, 1987

Body colour code		Refinishing paint supplier				
		ICI	DU PONT	AKUZO	BASF	GLASURIT
B09					40369	
G82		JJ27	H8221	MIT6366	41288	MIT617
L83		A298B	L8655	MIT9049	44224	MIT719/00C
B80*		A661B	L8640	MIT9066	42758	MIT810/00C
G47*						
H39*		0869B	W8223	MIT9826	42077	MIT709/00C
S49*						
W09*					45256	
G2W**	W09				45256	
	G47					
W61**		EE40	44889	MIT4031	37564	MIT102
S70**		JC14	L8139	MIT7285	40679	MIT113
W30**		KD65	G8488	MIT4238	43109	MIT906
R54**		KK72	L8497	MIT3654	43488	MIT327
G06**		A662B	G8862	MIT9094	44665	MIT626/00C
G2L***	L83	A298B	L8655	MIT9049	44224	MIT719/00C
	G06	A662B	G8862	MIT9094	44665	MIT626/00C

Body colour code		Refinishing paint supplier				
		SPIES	SHERWOOD	A & W	SHERWIN	INMONT
B09						MI-0240
G82		68196	CM112	35742	34-33901	MI-0157
L83		96141	91707/M	81756/M	34-36793	MI-0218
B80*		95337	CM130	81305/M	34-34630	MI-0224
G47*						
H39*		95083	CM120	81116/M	34-33445	MI-0167
S49*						
W09*		16007		39371		MI-0227
G2W**	W09	16007		39371		MI-0227
	G47					
W61**		19480	CM25	32562	34-34059	MI-0044
S70**		18544	CM101	35343	34-32545	MI-0146
W30**		17062	CM135	36284	34-34635	MI-0182
R54**		38235	61384	36528	34-35168	MI-0191
G06**				92188/M		MI-0225
G2L***	L83	96141	91707/M	81756/M	34-36793	MI-0218
	G06			92188/M		MI-0225

- \* Two-tone body colour
- \* Applicable from '89 models
- \*\* Applicable before '89 models

## BODY COLOUR CHARTS

Check the vehicle's body colour code, and then use this body colour chart to determine the refinishing paint supplier from which the colour can be purchased.

**Vehicles for Europe** (Vehicles built up to October, 1989)

**Vehicles for Australia** (Vehicles built up to June, 1989)

(M): Metallic paint

Paint used by manufacturer	Body colour code		Body colour	Colour number	Body colour name
		B09		BLUE	AC10609
	B80		BLUE (M)	AC10780	Coral Blue (M)
	G47		GREEN (M)	AC10847	Ivy Green (M)
	G82		GREEN	AC10682	Frano Green
	H84		SILVER (M)	AC10884	Grace Silver (M)
	L83		GRAY (M)	AC10783	Palermo Gray (M)
	S49		BEIGE	AC10849	Bohemia Beige
	W09		WHITE	AC10809	Sophia White
	W30		WHITE	AC10730	New Polar White
B7W*	B80		BLUE (M)	AC10780	Coral Blue (M)
	W09		WHITE	AC10809	Sophia White
G2W*	G47		GREEN (M)	AC10847	Ivy Green (M)
	W09		WHITE	AC10809	Sophia White
H5H*	H84		SILVER (M)	AC10884	Grace Silver (M)
	H39		GRAY (M)	AC10639	Kaiser Silver (M)

Refinishing paint for repairs	Body colour code	Refinishing paint supplier					
		ICI	DU PONT	AKUZO	GLASURIT	SPIES HECKER	SHERWOOD PARSONS
	B09						
	B80	A661B	L8640	MIT9066	MIT520/00C	95337	CM130
	G47						
	G82	JJ27	H8221	MIT6366	MIT617	68196	35742
	H84		W8829		MIT720/00C		
	L83	A298B	L8655	MIT9049	MIT719/00C	96141	91707/M
	S49						
	W09					16007	
	W30	KD65	G8488	MIT4238	MIT906	17062	CM135
B7W*	B80	A661B	L8640	MIT9066	MIT520/00C	95337	CM130
	W09					16007	
G2W*	G47						
	W09					16007	
H5H*	H84		W8829		MIT720/00C		
	H39	0869B	W8223	MIT9826	MIT709/00C	95083	CM120

\* Two-tone body colour

**BODY – Body Colour**

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Refinishing paint for repairs	Body colour code	Refinishing paint supplier			
		AULT WIBORG	BASF	SHERWIN WILLIAMS	INMONT
	B09				MI-0240
	B80	92189/M	44666	34-34630	MI-0224
	G47				
	G82	35742	41288	34-33901	MI-0157
	H84	82658/M	45208		MI-0231
	L83	81756/M	44224	34-36793	MI-0218
	S49				
	W09	39371	45256		MI-0227
	W30	36284	43109	34-34635	MI-0182
B7W*	B80	92189/M	44666	34-34630	MI-0224
	W09	39371	45256		MI-0227
G2W*	G47				
	W09	39371	45256		MI-0227
H5H*	H84	82658/M	45208		MI-0231
	H39	81116/M	42077	34-33445	MI-0167

\* Two-tone body colour

## BODY COLOUR CHARTS

Check the vehicle's body colour code, and then use this body colour chart to determine the refinishing paint supplier from which the colour can be purchased.

## Vehicles for General Export and Australia (Vehicles built up to June 1990)

(M): Metallic paint

	Body colour code	Body colour	Colour number	Body colour name
Paint used by manufacturer	G47	DARK GREEN (M)	AC10847	Ivy Green (M)
	S49	BEIGE	AC10849	Bohemia Beige
	W09	WHITE	AC10809	Sophia White
	B54	DULL BLUE	AC10854	Michigan Blue
	R54	RED	AC10754	Maple Red
	H52	DARK GRAY (M)	AC10852	Chateau Silver (M)
	S55	BEIGE (M)	AC10855	Barcelona Beige (M)
	B80	BLUE (M)	AC10780	Coral Blue (M)
	H84	SILVER (M)	AC10884	Grace Silver (M)
	Y51	YELLOW	AC10851	Crescent Yellow
	G2W*	G47	DARK GREEN (M)	AC10847
W09		WHITE	AC10809	Sophia White
B7W*	B80	LIGHT BLUE (M)	AC10780	Coral Blue (M)
	W09	WHITE	AC10809	Sophia White
S7W*	S55	BEIGE (M)	AC10855	Barcelona Beige (M)
	W09	WHITE	AC10809	Sophia White
H7H*	H84	SILVER (M)	AC10884	Grace Silver (M)
	H52	DARK GRAY (M)	AC10852	Chateau Silver (M)

\*Two-tone body colour

Refinishing paint for repairs	Refinishing paint supplier					
	Colour number	ICI	DU PONT	AKUZO	GLASURIT	SPIES
	AC10847	B760B	K9056	MIT9289	MIT630/00C	97738
	AC10849	WH31	H9087	MIT7645	MIT723	16176
	AC10809	NP66	H8937	MIT4503		16007
	AC10854	WH29	K9055	MIT5878	MIT529	57065
	AC10754	KK72	L8497	MIT3654	MIT327	38235
	AC10852	B758B			MIT724/00C	
	AC10855	B757B	H9086	MIT9286	MIT139/00C	97736
	AC10780	A661B	L8640	MIT9066	MIT810/00C	96734
	AC10884	B213B	W8829	MIT9186	MIT720/00C	97177
	AC10851	WH30	K9054	MIT1628	MIT140	16145 16175

# BODY - Body Colour

42-293-4

Refinishing paint for repairs	Colour number	Refinishing paint supplier				
		SHERWOOD	A&W	BASF	SHERWIN	INMONT
	AC10847		82788/M	45683	41471	MI-0252
	AC10849		40563	45680	40811	MI-0254
	AC10809		39371	45256	38773	MI-0227
	AC10854		40561	45678	41470	MI-0257
	AC10754	61384	36528	43488	34-35168	
	AC10852		82785/M			MI-0256
	AC10855		82786/M	45677	40812	MI-0258
	AC10780	CM130	81305/M	42758	34-34630	MI-0224
	AC10884		82658/M	45204	38833	MI-0231
	AC10851		40564	45679	41472	MI-0255

### BODY COLOUR CHARTS

Check the vehicle's body colour code, and then use this body colour chart to determine the refinishing paint supplier from which the colour can be purchased.

**Vehicles for Europe** (Vehicles built up to October, 1990.)

(M): Metallic paint

	Body colour code	Body colour	Colour number	Body colour name
Paint used by manufacturer	G47	DARK GREEN (M)	AC10847	Ivy Green (M)
	S49	BEIGE	AC10849	Bohemia Beige
	W09	WHITE	AC10809	Sophia White
	B54	DULL BLUE	AC10854	Michigan Blue
	R54	RED	AC10754	Maple Red
	S55	BEIGE (M)	AC10855	Barcelona Beige (M)
	B80	BLUE (M)	AC10780	Coral Blue (M)
	H84	SILVER (M)	AC10884	Grace Silver (M)
G47W09*	G47	DARK GREEN (M)	AC10847	Ivy Green (M)
	W09	WHITE	AC10809	Sophia White
B80W09*	B80	LIGHT BLUE (M)	AC10780	Coral Blue (M)
	W09	WHITE	AC10809	Sophia White
S55W09*	S55	BEIGE (M)	AC10855	Barcelona Beige (M)
	W09	WHITE	AC10809	Sophia White
H84H52*	H84	SILVER (M)	AC10884	Grace Silver (M)
	H52	DARK GRAY (M)	AC10852	Chateau Silver (M)

\*Two-tone body colour



Colour number	Refinishing paint supplier											
	I.C.I.	DUPONT	AKUZO	GLASURIT	BASF	BASF CORP.	SPIES	A & W	STANDOX	SHERWIN	PPG US	PPG EC
AC10847	B760B	K9056	MIT9289	MIT630/00C	45683	MI-0252	97738	82788/M	G47	41471	-	MITG47
AC10849	WH31	H9087	MIT7645	MIT723	45680	MI-0254	16176	40563	S49	40811	26581	MITS49
AC10809	NP66	H8937	MIT4503		45256	MI-0227	16007	39371	W09	38773	90557	MITW09
AC10854	WH29	K9055	MIT5878	MIT529	45678	MI-0257	57065	40561	B54	41470	-	MITB54
AC10754	KK72	L8497			43488	MI-0191		36528	R54			
AC10855	B757B	H9086	MIT9286	MIT139/00C	45677	MI-0258	97736	82786/M	S55	40812	26580	MITS55
AC10780	A661B	L8640	MIT9066	MIT810/00C	42758	MI-0224	96734	81305/M	B80	34-34638	16133	MITB80
AC10884	B213B	W8829	MIT9186	MIT720/00C	45204	MI-0231	97177	82658/M	H84	38833	34522	-
AC10852	B758B	K9057	MIT9287	MIT724/00C	45676	MI-0256	97737	82785/M	H52	40930	34771	MITH52

Refinishing paint for repair

BODY - Body Colour

42-293-6

## BODY COLOUR CHARTS

Check the vehicle's body colour code, and then use this body colour chart to determine the refinishing paint supplier from which the colour can be purchased.

## Vehicles for General Export and Australia (Vehicles built up to June, 1991)

(M): Metallic paint

	Body colour	Body colour code		Colour number	Body colour name
Paint used by manufacturer	WHITE	W09		AC10809	Sophia White
	DARK GRAY	H52		AC10852	Chateau Silver (M)
	LAMP BLACK	X94		AC10894	Lamp Black
	RED	R54		AC10754	Maple Red
	BEIGE	S49		AC10849	Bohemia Beige
	BEIGE	S55		AC10855	Barcelona Beige (M)
	YELLOW	Y51		AC10851	Crescent Yellow
	DARK GREEN	G47		AC10847	Ivy Green (M)
	DULL BLUE	B54		AC10854	Michigan Blue
	BLUE	B80		AC10780	Coral Blue (M)
	DARK GRAY	*H52X94	H52	AC10852	Chateau Silver (M)
	LAMP BLACK		X94	AC10894	Lamp Black
	DARK GREEN	*G47A51	G47	AC10847	Ivy Green (M)
	MEDIUM GRAY		A51	AC10951	Saimaa Gray (M)
	BLUE	*B80W09	B80	AC10780	Coral Blue (M)
	WHITE		W09	AC10809	Sophia White

\*Two-tone body colour

Refinishing paint for repair

Colour number	Refinishing paint supplier											
	I.C.I.	DUPONT	AKUZO	GLASURIT	BASF	BASF CORP	SPIES	A & W	STANDOX	SHERWIN	PPG US	PPG EC
AC10809	NP66	H8937	MIT4503		45256	MI-0227	16007	39371	W09		90557	MITW09
AC10852	B758B	K9057	MIT9287	MIT728/00C	45676	MI-0256	97737	82785/M	H52		34771	MITH52
AC10951												
AC10894	XE48	99S		MIT916	46177	MI-0273		41655				MITX94
AC10754	KK72	L8497			43488	MI-0191		36528	R54			
AC10849	WH31	H9087	MIT7645	MIT723	45680	MI-0254	16176	40564	S49		26581	MIT549
AC10855	B757B	H9086	MIT9286	MIT139/00C	45677	MI-0258	97736	82786/M	S55		26580	MIT555
AC10851	WH30	K9054	MIT1628	MIT140	45679	MI-0255	16145 16175	40564	Y51			MITY51
AC10847	B760B	K9056	MIT9289	MIT630/00C	45683	MI-0252	97738	82788/M	G47			MITG47
AC10854	WH29	K9055	MIT5878	MIT529	45678	MI-0257	57065	40561	B54			MITB54
AC10780	A661B	L8640	MIT9066	MIT810/00C	42758	MI-0224	96734	81305/M	B80	34-34630	16133	MITB80

BODY - Body Colour

42-293-8

## BODY COLOUR CHARTS

Check the vehicle's body colour code, and then use this body colour chart to determine the refinishing paint supplier from which the colour can be purchased.

## Vehicles for Europe (Vehicles built up to October, 1991)

(M): Metallic paint

	Body colour code	Body colour	Colour number	Body colour name	
Paint used by manufacturer	W09	WHITE	AC10809	Sophia White	
	H84	SILVER(M)	AC10884	Grace Silver (M)	
	X94	LAMP BLACK	AC10894	Lamp Black	
	R54	RED	AC10754	Maple Red	
	S49	BEIGE	AC10849	Bohemia Beige	
	S55	BEIGE (M)	AC10855	Barcelona Beige (M)	
	G63	DARK GREEN	AC10963	Morsel Green	
	G47	DARK GREEN (M)	AC10847	Ivy Green (M)	
	B54	DULL BLUE	AC10854	Michigan Blue	
	B80	BLUE (M)	AC10780	Coral Blue (M)	
	*A51H52	A51	MEDIUM GRAY (M)	AC10951	Saimaa Gray (M)
		H52	DARK GRAY (M)	AC10852	Chateau Silver (M)
	*G47A51	G47	DARK GREEN	AC10847	Ivy Green (M)
		A51	MEDIUM GRAY (M)	AC10951	Saimaa Gray (M)
	*B80W09	B80	BLUE (M)	AC10780	Coral Blue (M)
		W09	WHITE	AC10809	Sophia White
	*S55W09	S55	BEIGE (M)	AC10855	Barcelona Beige (M)
W09		WHITE	AC10809	Sophia White	

\*Two-tone body colour

Colour number	Refinishing paint supplier											
	I.C.I.	DUPONT	AKZO	GLASURIT	BASF	BASF CORP.	SPIES	A & W	STANDOX	SHERWIN	PPG US	PPG EC
AC10809	NP66	H8937	MIT4503		45256	MI-0227	16007	39371	W09		90557	MITW09
AC10884	B213B	W8829	MIT9186	MIT720/00C	45204	MI-0231	97177	82658/M	H84	38833	34522	—
AC10894	XE48	99S		MIT916	46177	MI-0273		41655				MITX94
AC10754	KK72	L8497			43488	MI-0191		36528	R54			
AC10849	WH31	H9087	MIT7645	MIT723	45680	MI-0254	16176	40564	S49		26581	MIT549
AC10855	B757B	H9086	MIT9286	MIT139/00C	45677	MI-0258	97736	82786/M	S55		26580	MIT555
AC10963												
AC10847	B760B	K9056	MIT9289	MIT630/00C	45683	MI-0252	97738	82788/M	G47			MITG47
AC10854	WH29	K9055	MIT5878	MIT529	45678	MI-0257	57065	40561	B54			MITB54
AC10780	A661B	L8640	MIT9066	MIT810/00C	42758	MI-0224	96734	81305/M	B80	34-34630	16133	MITB80
AC10951												
AC10852	B758B	K9057	MIT9287	MIT728/00C	45676	MI-0256	97737	82785/M	H52		34771	MITH52

Refinishing paint for repair

BODY - Body Colour

42-293-10

## BODY COLOUR CHARTS

Check the vehicle's body colour code, and then use this body colour chart to determine the refinishing paint supplier from which the colour can be purchased.

**Vehicles for General Export and Australia (Vehicles built from July 1991 up to June 1992)**

(M): Metallic paint

	Body colour	Body colour code	Colour number	Body colour name
	WHITE	W09	AC10809	Sophia White
	SILVER	H84	AC10884	Grace Silver (M)
	LAMP BLACK	X94	AC10894	Lamp Black
	RED	R54	AC10754	Maple Red
	BEIGE	S49	AC10849	Bohemia Beige
	BEIGE	S55	AC10855	Barcelona Beige (M)
	YELLOW	Y51	AC10851	Crescent Yellow
	DARK GREEN	G98	AC10998	Saint-amour Green (M)
Paint used by manufacturer	DARK BLUE*2	B04*2	AC11004*2	Ruhig Blue*2
	DULL BLUE*1	B54*1	AC10854*1	Michigan Blue*1
	BLUE	B80	AC10780	Coral Blue (M)
	DARK GRAY	H89	AC10989	Corse Gray (M)
	DARK GRAY	*H89H84	H89	Corse Gray (M)
	SILVER	H84	AC10884	Grace Silver (M)
	DARK GREEN	*G98A51	G98	Saint-amour Green (M)
	MEDIUM GRAY	A51	AC10951	Saimaa Gray (M)
	BLUE	*B80W09	B80	Coral Blue (M)
	WHITE	W09	AC10809	Sophia White

\*Two-tone body colour

\*1 : Vehicles built up to October, 1991.

\*2 : Vehicles built from November, 1991.

Colour number	Refinishing paint supplier											
	I.C.I.	DUPONT	AKZO	GLASURIT	BASF C&I	R-M	SPIES	A & W	STANDOX	SHERWIN	PPGUS	PPGEC
AC10809	NP66	H8937	MIT4503		45256	MI-0227	16007	39371	W09		90557	MITW09
AC10951	B760B	N9392	MIT9427	MIT743/00C	46808		99286	45737	A51			MITA51
AC10894	XE48	99S		MIT916	46177	MI-0273		41655				MITX94
AC10754	KK72	L8497			43488	MI-0191		36528	R54			
AC10849	WH31	H9087	MIT7645	MIT723	45680	MI-0254	16176	40564	S49		26581	MITS49
AC10855	B757B	H9086	MIT9286	MIT139/00C	45677	MI-0258	97736	82786/M	S55		26580	MITS55
AC10851	WH30	K9054	MIT1628	MIT140	45679	MI-0255	16145 16175	40564	Y51			MITY51
AC10854	WH29	K9055	MIT5878	MIT529	45678	MI-0257	57065	40561	B54			MITB54
AC10780	A661B	L8640	MIT9066	MIT810/00C	42758	MI-0224	96734	81305/M	B80	34-34630	16133	MITB80
AC10884	B213B	W8829	MIT9186	MIT720/00C	45204	MI-0231	97177	82658/M	H84	38833	34522	
AC10998*												
AC10989*												
AC11004*												

\*: The refinishing paints for these paint codes had not yet been decided by the time of publication. For further information about these paint codes, refer to the NEWS LETTER (Refinishing Paint Formula Numbers) which will be sent under separate cover.

**BODY COLOUR CHARTS**

Check the vehicle's body colour code, and then use this body colour chart to determine the refinishing paint supplier from which the colour can be purchased.

**Vehicles for Europe (Vehicles built up to October, 1992)**

(M): Metallic paint

	Body colour code	Body colour	Colour number	Body colour name	
Paint used by manufacturer	W09	WHITE	AC10809	Sophia White	
	H84	SILVER (M)	AC10884	Grace Silver (M)	
	R54	RED	AC10754	Maple Red	
	S49	BEIGE	AC10849	Bohemia Beige	
	S55	BEIGE (M)	AC10855	Barcelona Beige (M)	
	G63	DARK GREEN	AC10963	Morsel Green	
	G98	DARK GREEN (M)	AC10998	Saint-amour Green (M)	
	B04	DARK BLUE	AC11004	Ruhig Blue	
	B80	BLUE (M)	AC10780	Coral Blue (M)	
	*A51H89	A51	MEDIUM GRAY (M)	AC10951	Saimaa Gray (M)
		H89	DARK GRAY (M)	AC10989	Corse Gray (M)
	*G98A51	G98	DARK GREEN (M)	AC10998	Saint-amour Green (M)
		A51	MEDIUM GRAY (M)	AC10951	Saimaa Gray (M)
	*B80W09	B80	BLUE (M)	AC10780	Coral Blue (M)
		W09	WHITE	AC10809	Sophia White
	*S55W09	S55	BEIGE (M)	AC10855	Barcelona Beige (M)
		W09	WHITE	AC10809	Sophia White

\*Two-tone body colour



Colour number	Refinishing paint supplier											
	I.C.I.	DUPONT	AKZO	GLASURIT	BASF C&I	R-M	SPIES	A & W	STANDOX	SHERWIN	PPG US	PPG EC
AC10809	NP66	H8937	MIT4503		45256	MI-0227	16007	39371	W09		90557	MITW09
AC10884	B213B	W8829	MIT9186	MIT720/00C	45204	MI-0231	97177	82658/M	H84	38833	34522	—
AC10754	KK72	L8497			43488	MI-0191		36528	R54			
AC10849	WH31	H9087	MIT7645	MIT723	45680	MI-0254	16176	40564	S49		26581	MITS49
AC10855	B757B	H9086	MIT9286	MIT139/00C	45677	MI-0258	97736	82786/M	S55		26580	MITS55
AC10963*												
AC10780	A661B	L8640	MIT9066	MIT810/00C	42758	MI-0224	96734	81305/M	B80	34-34630	16133	MITB80
AC10951	B760B	N9392	MIT9427	MIT743/00C	46808		99286	45737	A51			MITA51
AC10989*												
AC10998*												
AC11004*												

\*: The refinishing paints for these paint codes had not yet been decided by the time of publication. For further information about these paint codes, refer to the NEWS LETTER (Refinishing Paint Formula Numbers) which will be sent under separate cover.

## BODY COLOUR CHARTS

Check the vehicle's body colour code, and then use this body colour chart to determine the refinishing paint supplier from which the colour can be purchased.

## Vehicles for General Export and Australia (Vehicles built up to June 1993)

(M): Metallic paint

Paint used by manufacturer	Body colour code		Body Colour	Colour number	Body colour name	Composition of film
		B04		DARK BLUE	AC11004	Ruhig Blue
	W09		WHITE	AC10809	Sophia White	Solid
	S03		BEIGE (M)	AC11003	Altamira Silver (M)	Metallic
	R42		DARK RED	AC11042	Pamir Red	Solid
	S33		BEIGE	AC11033	Jizan Beige	Solid
	G98		DARK GREEN (M)	AC10998	Saint-Amour Green (M)	Metallic
	X94		LAMP BLACK	AC10894	Lamp Black	Solid
	H89		DARK GRAY (M)	AC10989	Corse Gray (M)	Metallic
	T25		LIGHT BLUE (M)	AC11025	Bothnia Blue (M)	Metallic
	Y51		YELLOW	AC10851	Crescent Yellow	Solid
	H84		SILVER (M)	AC10884	Grace Silver (M)	Metallic
	T25H84	T25	LIGHT BLUE (M)	AC11025	Bothnia Blue (M)	Metallic
		H84	SILVER (M)	AC10884	Grace Silver (M)	Metallic
	S22W09	S22	LIGHT BEIGE (M)	AC10922	Wheat Beige (M)	Metallic
		W09	WHITE	AC10809	Sophia White	Solid
	H84S03	H84	SILVER (M)	AC10884	Grace Silver (M)	Metallic
		S03	BEIGE (M)	AC11003	Altamira Silver (M)	Metallic
	G98S22	G98	DARK GREEN (M)	AC10998	Saint-Amour Green (M)	Metallic
		S22	LIGHT BEIGE (M)	AC10922	Wheat Beige (M)	Metallic

\*Two-tone body colour

Colour number	Refinishing paint supplier										
	I.C.I.	DUPONT	AKZO	GLASURIT	R-M	SPIES	A & W	STANDOX	SHERWIN	PPG US	PPG EC
AC10809	NP66	H8937	MIT 4503	MIT 136	W09	16007	16007	W09	38773	MIT.W09	90567
AC10851	WH30	K9054	MIT 1628	MIT 140	Y51	16145	40564	Y51	41472	MIT.Y51	N. A.
AC10884	B213B	W8829	MIT 9186	MIT 720/00C	H84	97177	82658	H84	38833	MIT.H84	34522
AC10894	XE48	99S	MIT 4590	MIT 916	X94	78276	41655	X94	F10B1736	MIT.X94	9795
AC10922	C827B	L9331	MIT 9412	MIT144/00C	S22	98617	42565	S22	44387	MIT.S22	4352
AC10989	2863B	N9595	MIT 9478	MIT 749/00C	H89	99621	49399	H89		MIT.H89	-
AC10998	PP14B	N9633	MIT 9500	MIT 652/00C	G98	99858	48350	G98	46424	MIT.G98	4620
AC11003*											
AC11004	BA16	K9632	MIT5134	MIT549	B04	57406	48347	B04	46423	MIT. B04	N. A.
AC11025*											
AC11033*											
AC11042*											

\*: The refinishing paints for these paint codes had not yet been decided by the time of publication. For further information about these paint codes, refer to the NEWS LETTER (Refinishing Paint Formula Numbers) which will be sent under separate cover.

## BODY COLOUR CHARTS

Check the vehicle's body colour code, and then use this body colour chart to determine the refinishing paint supplier from which the colour can be purchased.

## Vehicles for Europe (Vehicles built up to June 1993)

	Body colour	Body colour code	Colour number	Body colour name	Composition of film	
Paint used by manufacturer	WHITE	W09	AC10809	Sophia White	Solid	
	SILVER	H84	AC10884	Grace Silver	Metallic	
	LAMP BLACK	X94	AC10894	Lamp Black	Solid	
	DARK RED	R42	AC11042	Pamir Red	Solid	
	RED	R54	AC10754	Maple Red	Solid	
	BEIGE	S03	AC11003	Altamira Silver	Metallic	
	BEIGE	S33	AC11033	Jizan Beige	Solid	
	DARK GREEN	G63	AC10963	Morsel Green	Solid	
	DARK GREEN	G98	AC10998	Saint-amour Green	Metallic	
	LIGHT BLUE	T25	AC11025	Bothnia Blue	Metallic	
	DARK BLUE	B04	AC11004	Ruhig Blue	Solid	
	SILVER	*H84S03	H84	AC10884	Grace Silver	Metallic
	BEIGE		S03	AC11003	Altamira Silver	Metallic
	LIGHT BEIGE	*S22W09	S22	AC10922	Wheat Beige	Metallic
	WHITE		W09	AC10809	Sophia White	Solid
	DARK GREEN	*G98S22	G98	AC10998	Saint-amour Green	Metallic
	LIGHT BEIGE		S22	AC10922	Wheat Beige	Metallic
	LIGHT BLUE	*T25H84	T25	AC11025	Bothnia Blue	Metallic
	SILVER		H84	AC10884	Grace Silver	Metallic

\* : Two-tone body colour

**BODY COLOUR CHARTS**

Check the vehicle's body colour code, and then use this body colour chart to determine the refinishing paint supplier from which the colour can be purchased.

**(Vehicles built from July 1993)**

Paint used by manufacturer	Body colour	Body colour code		Colour number	Body colour name	Composition of film
	DARK RED	R42		AC11042	Pamir Red	Solid
	WHITE	W09		AC10809	Sophia White	Solid
	BEIGE	S33		AC11033	Jizan Beige	Solid
	BLUE	T95		AC11095	Borden Blue	Solid
	DARK GREEN	G63		AC10963	Morsel Green	Solid
	RED	R54		AC10754	Maple Red	Solid
	LAMP BLACK	X94		AC10894	Lamp Black	Solid
	YELLOW	Y59		AC10659	Sanmarino yellow	Solid
	DARK GREEN	G89		AC11089	Astoria Green	Coloured pearl + interference pearl (2 coats)
	SILVER	H81		AC11081	La Guardia Silver	Metallic
	BLACK	X08		AC11008	Pyreness Black	Coloured pearl (2 coats)
	LIGHT BLUE	T25		AC11025	Bothnia Blue	Metallic
	LIGHT BLUE	*T25H81	T25	AC11025	Bothnia Blue	Metallic
	SILVER		H81	AC11081	La Guardia Silver	Metallic
	DARK GREEN	*G89H81	G89	AC11089	Astoria Green	Coloured pearl + interference pearl (2 coats)
	SILVER		H81	AC11081	La Guardia Silver	Metallic
	SILVER	*H81H39	H81	AC11081	La Guardia Silver	Metallic
	DARK GRAY		H39	AC10639	Kaiser Silver	Metallic
SILVER	*H81W09	H81	AC11081	La Guardia Silver	Metallic	
WHITE		W09	AC10809	Sophia White	Solid	

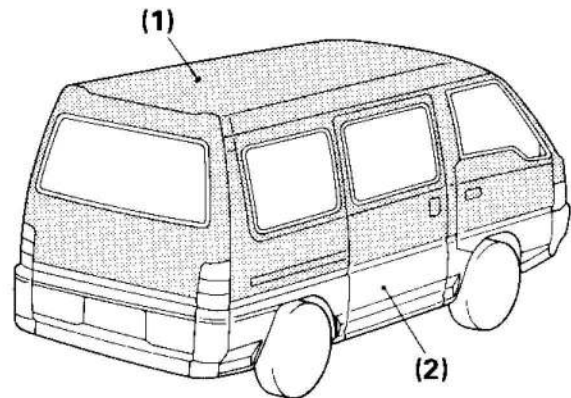
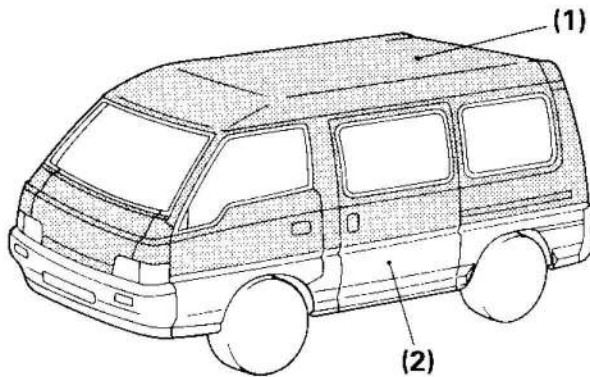
\*Two-tone body colour.

**(Vehicles built from June 1994)**

Paint used by manufacturer	Body colour	Body colour code	Colour number	Body colour name	Composition of film
	DARK RED	R42	AC11042	Pamir Red	Solid
	WHITE	W09	AC10809	Sophia White	Solid
	BEIGE	S33	AC11033	Jizan Beige	Solid
	BLUE	T95	AC11095	Borden Blue	Solid
	DARK GREEN	G49	AC10949	Morsel Green	Solid
RED	R54	AC10754	Maple Red	Solid	

## BODY COLOURING

## Two-tone body colour



## (Vehicles built up to June, 1989)

Colour code No.	B7W★	G2W★	H5H★	B6W★★	G2L★★
(1)	AC10780 (Coral Blue)	AC10847 (Ivy Green)	AC10884 (Grace Silver)	AC10780 (Coral Blue)	AC10783 (Palermo Gray)
(2)	AC10809 (Sophia White)	AC10809 (Sophia White)	AC10639 (Kaiser Silver)	AC10730 (New Polar White)	AC10806 (Yosemite Green)

★ Applicable from '89 models

★★ Applicable before '89 models

## (Vehicles built from July 1989 up to June 1991)

Colour code No.	G47W09	B80W09	S55W09	H84H52
(1)	AC10847 (Ivy Green)	AC10780 (Coral Blue)	AC10855 (Barcelona Beige)	AC10884 (Grace Silver)
(2)	AC10809 (Sophia White)	AC10809 (Sophia White)	AC10809 (Sophia White)	AC10852 (Chateau Silver)

Colour code No.	H52X94	G47A51	A51H52
(1)	AC10852 (Chateau Silver)	AC10847 (Ivy Green)	AC10951 (Saimaa Gray)
(2)	AC10894 (Lamp Black)	AC10951 (Saimaa Gray)	AC10852 (Chateau Silver)

## (Vehicle built from July 1991 up to June 1992)

Color code No.	G98A51	B80W09	H89H84	A51H89	S55W09
(1)	AC10998 (Saint-amour Green)	AC10780 (Coral Blue)	AC10989 (Corse Gray)	AC10951 (Saimaa Gray)	AC10855 (Barcelona Beige)
(2)	AC10951 (Saimaa Gray)	AC10809 (Sophia White)	AC10884 (Grace Silver)	AC10989 (Corse Gray)	AC10809 (Sophia White)

## (Vehicles built up to June 1993)

Color code No.	T25H84	S22W09	H84S03	G98S22
(1)	AC11025 (Bothnia Blue)	AC10922 (Wheat Beige)	AC10884 (Grace Silver)	AC10998 (Saint-Amour Green)
(2)	AC10884 (Grace Silver)	AC10809 (Sophia White)	AC11003 (Altamira Silver)	AC10922 (Wheat Beige)

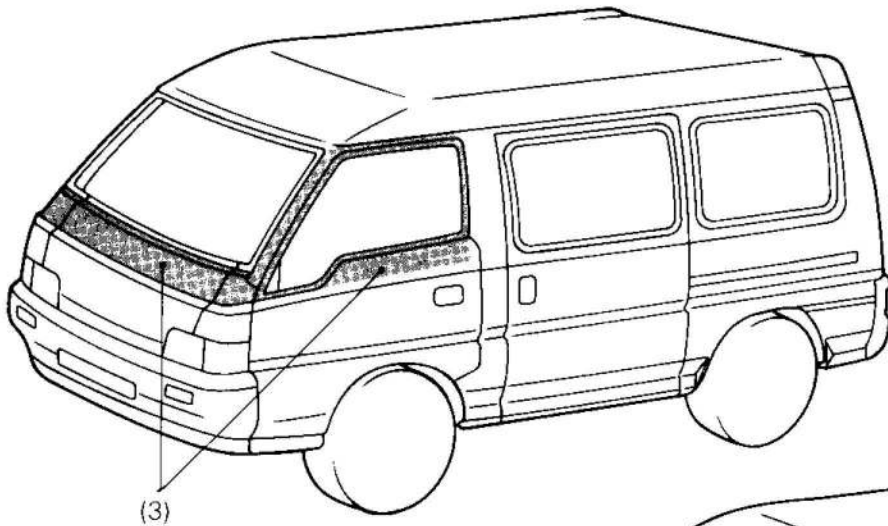
(Vehicles built from July 1993)

Colour code No.	T25H81	G89H81	H81H39	H81W09
(1)	AC11025 (Bothnia Blue)	AC11089 (Astoria Green)	AC11081 (La Guardia Silver)	AC11081 (La Guardia Silver)
(2)	AC11081 (La Guardia Silver)	AC11081 (La Guardia Silver)	AC10639 (Kaiser Silver)	AC10809 (Sophia White)

NOTES

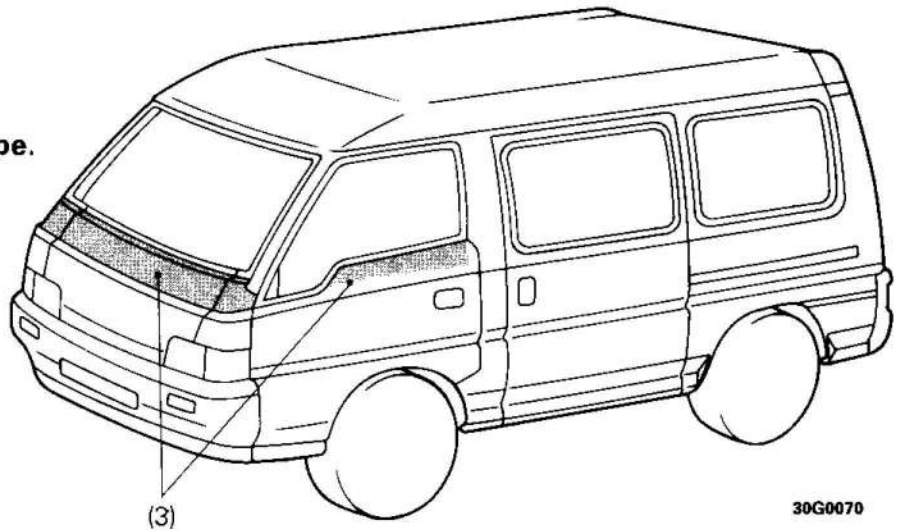


Black paint on front panel, front door and front pillar  
 Except Vehicles for Europe.



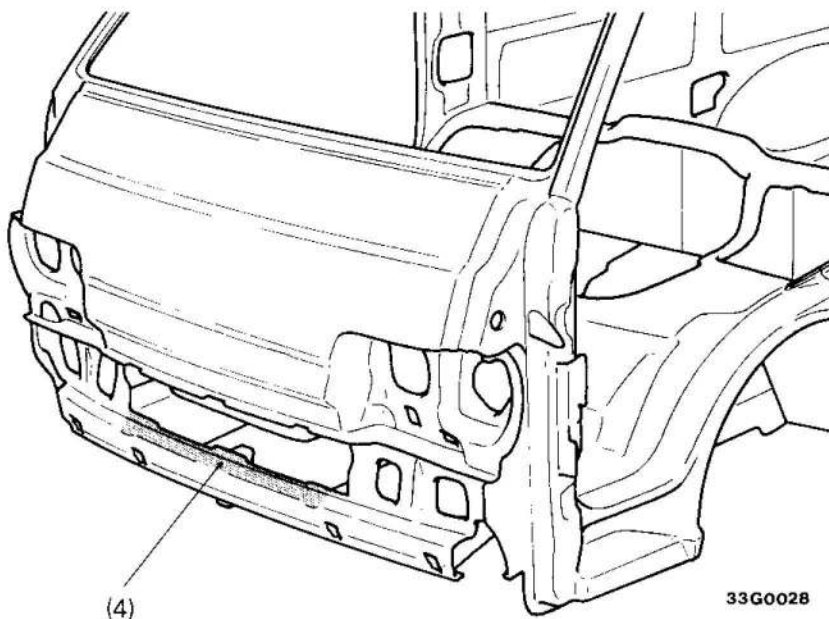
(3) AC10790 (Black)

Vehicles for Europe.



30G0070

Black paint on front end crossmember

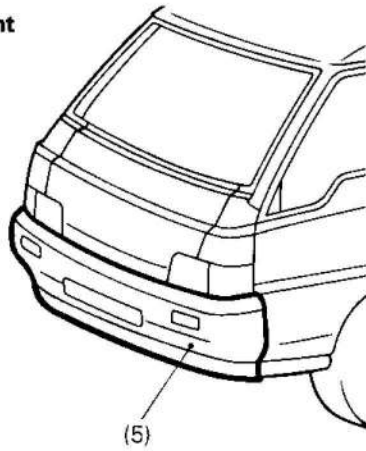


33G0028

(4) AC10085 (Black)  
 Painting is unnecessary for  
 chassis corresponding to  
 colour codes G06, H9H,  
 H52, G47, B54, G2W, X94,  
 G98, H89, G98A51, H89H84,  
 A51H89, G63 and B04

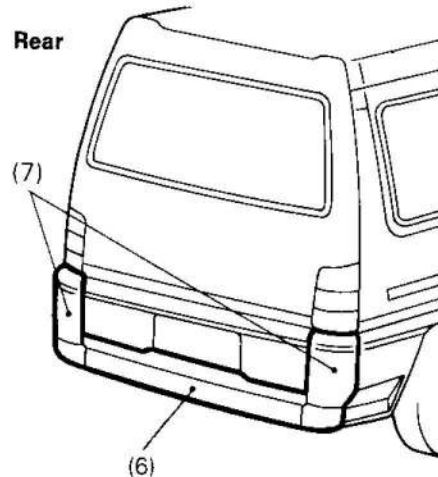
**Bumper  
TYPE A**

Front



30G0338

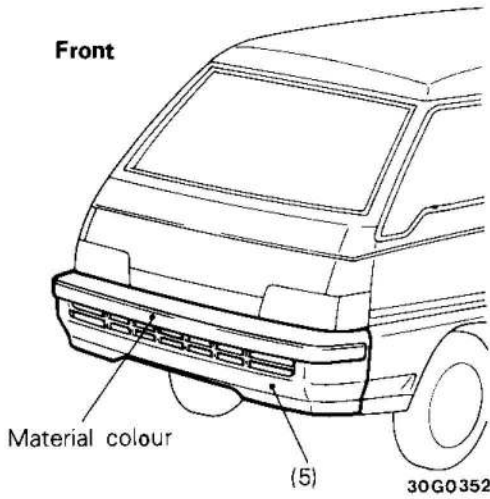
Rear



30G0339

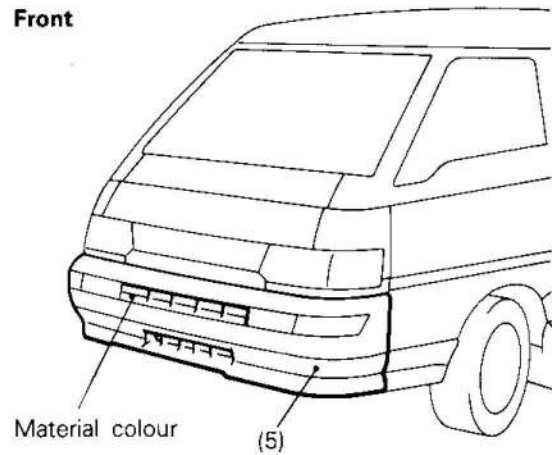
**TYPE B**

Front



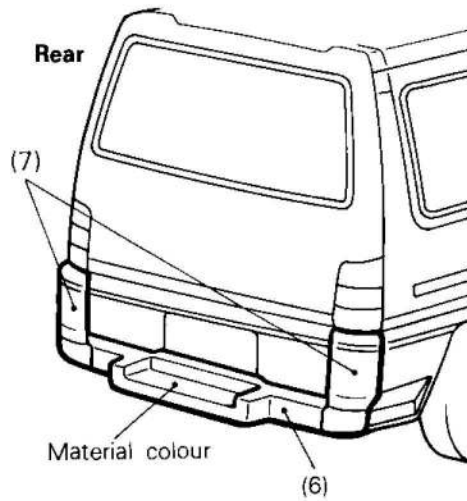
30G0352

Front



33G0182

Rear



**Vehicles for Europe**

**(Vehicles built up to October, 1990)**

Model \ No.	(5)	(6) (7)
Van 2WD Mini-bus DX, GL	Material colour	AC10724 (Dark Gray)
Van 4WD	Material colour	Material colour
Mini-bus GLS, GLX	Body colour	Body colour

**(Vehicles built from November, 1990)**

Model \ No.	(5)	(6)	(7)
Van 4WD	Material colour	Material colour	Material colour
Van 2WD Mini-bus GL	Material colour	AC10724 (Dark Gray)	Material colour
Mini-bus GLS, GLX	Body colour	Body colour	Body colour

**Vehicles for General Export**

Model \ No.	(5)	(6) (7)
Van, Mini-bus DX	AC10724 (Dark Gray)	AC10724 (Dark Gray)
Mini-bus XL, Exceed	Body colour	Body colour

**Vehicles for Australia**

Model \ No.	(5)	(6) (7)
Van, Mini-bus DX	Material colour	Material colour
Mini-bus XL, Exceed	Body colour	Body colour

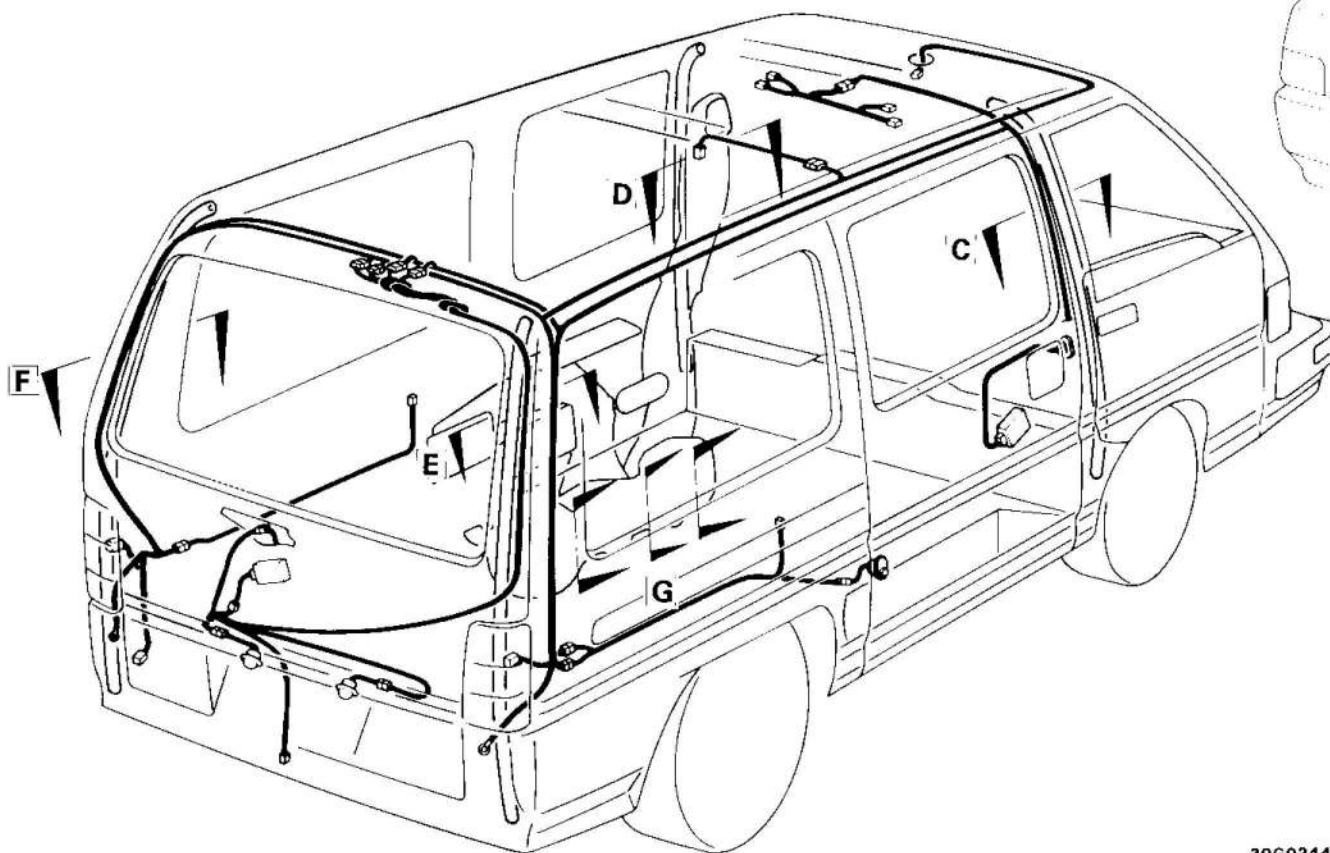
NOTE

With two-tone body colour "Body colour" indicates the colour on the bottom of the body.

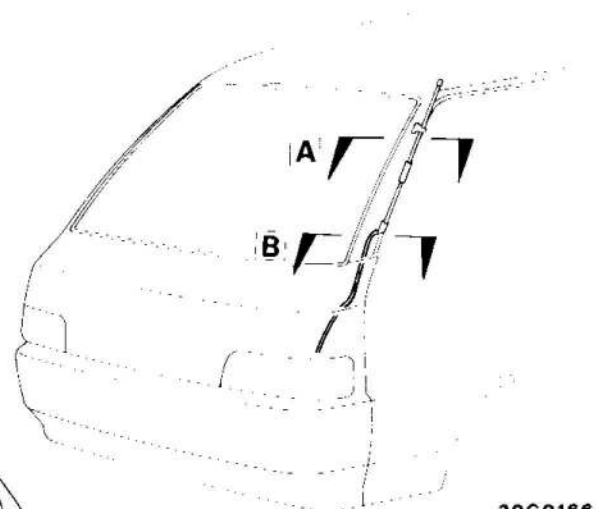
## WIRING HARNESS ROUTING DIAGRAM

There are wiring harness and/or hose routed through closed cross-section structures in some areas of the body; before cutting a panel in any of these areas, be sure to remove the harness and/or hose.

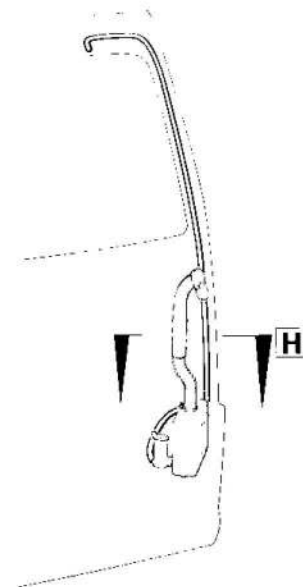
### L.H. drive vehicles



30G0244

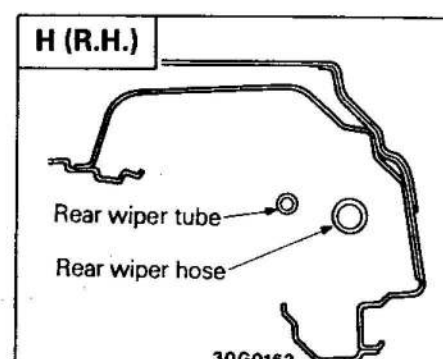
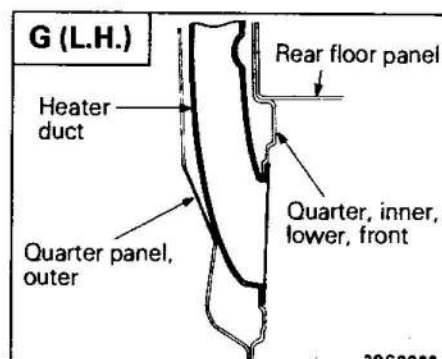
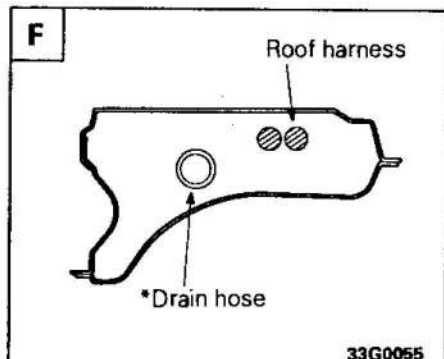
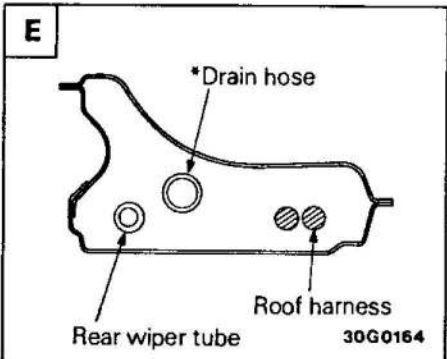
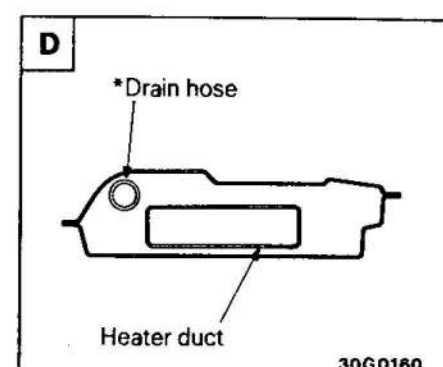
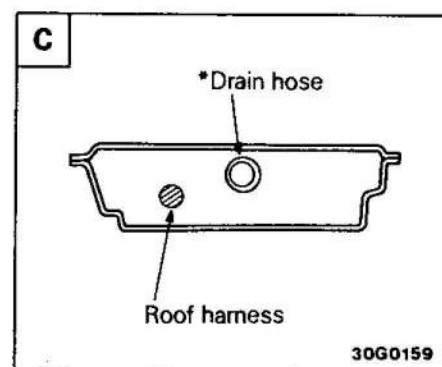
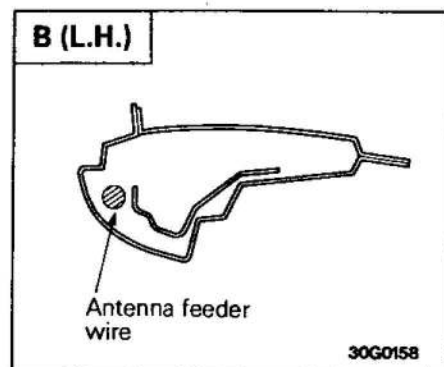
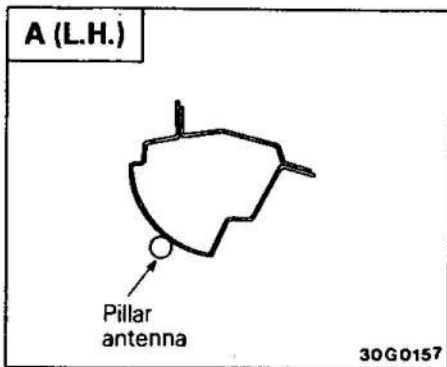


30G0166



30G0167

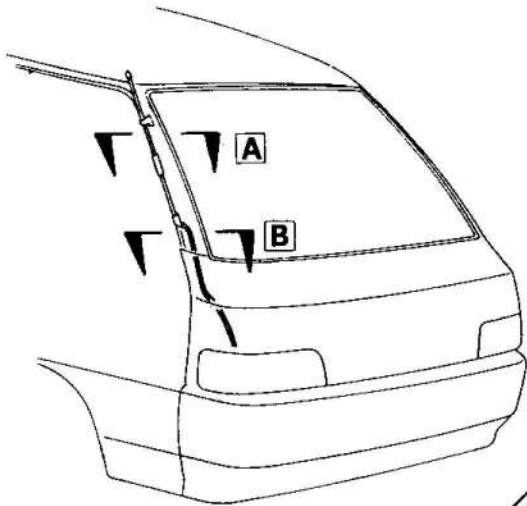
NOTE  
The figure above shows the upper rank models of Mini-bus.



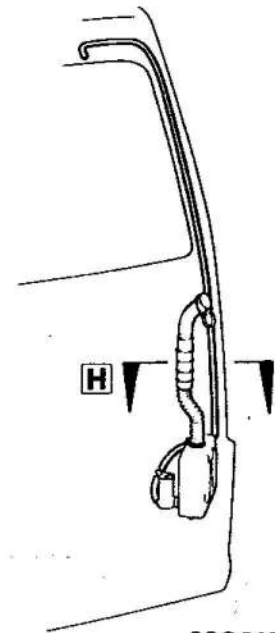
\*Vehicles equipped with sunroof

R.H. drive vehicles

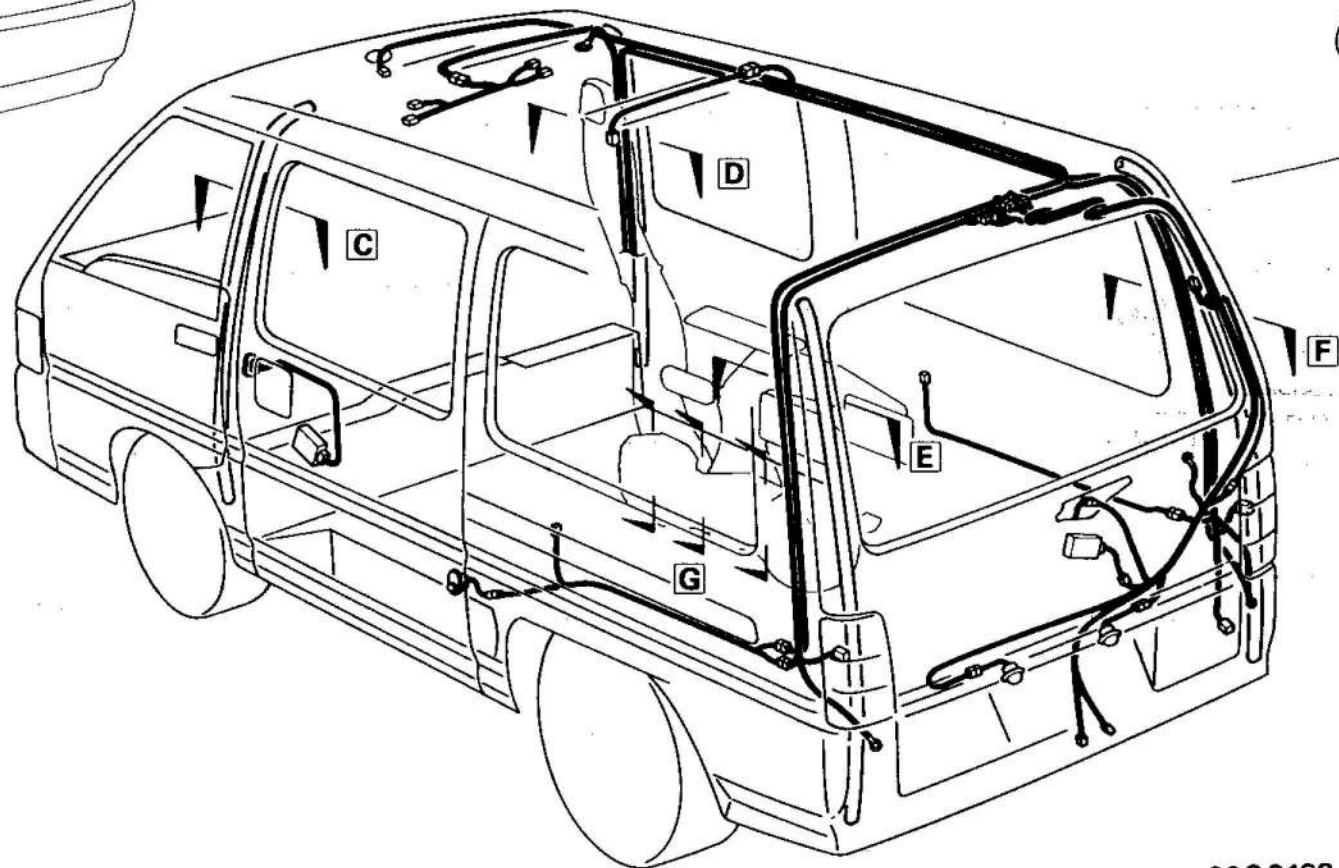
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30G0166



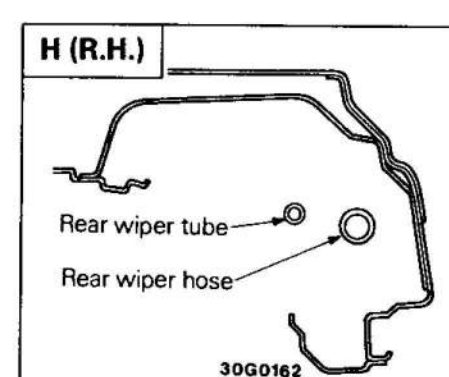
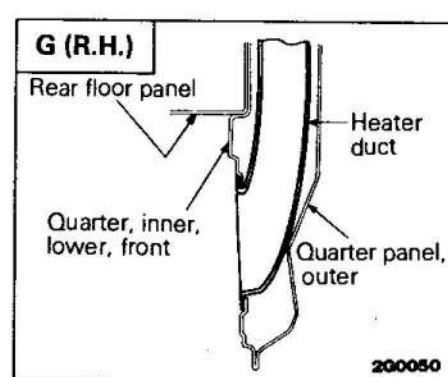
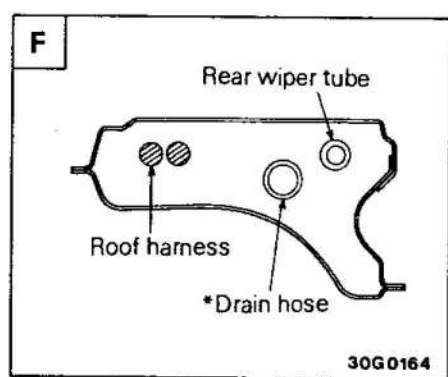
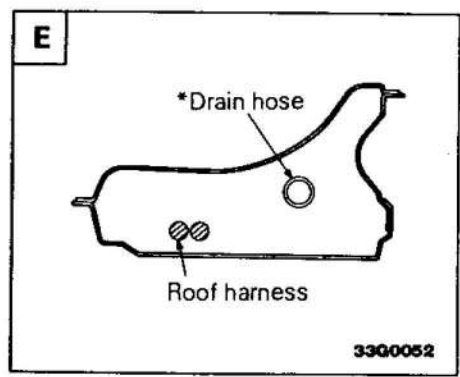
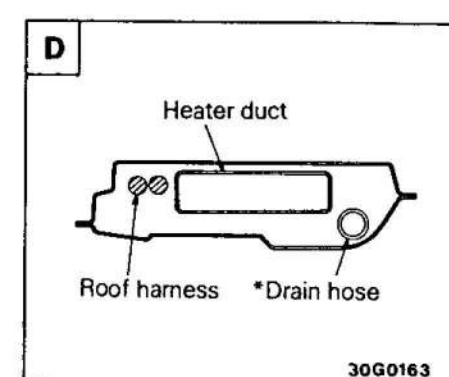
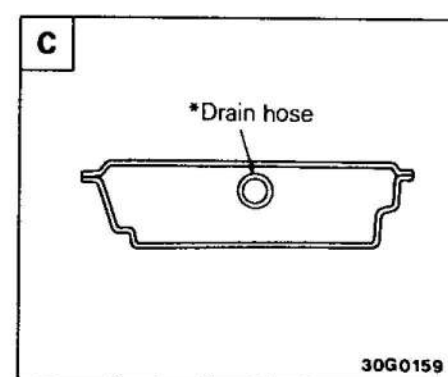
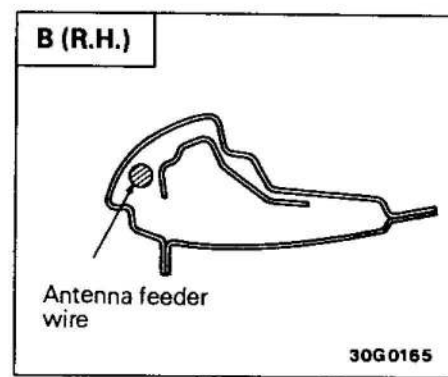
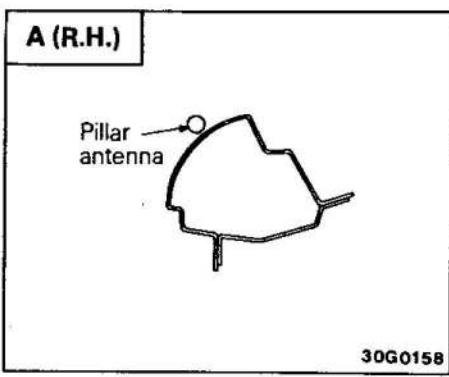
30G0167



30G0168

## NOTE

The figure above shows the upper rank models of Mini-bus.



\*Vehicles equipped with sunroof

1954