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SPECIFICATIONS

E51CA--

GENERAL SPECIFICATIONS WINDSHIELD WIPERS AND WASHER

ems Specifications			
Wiper motor			
Туре	Ferrite magnet field motor		
Revolution under load r/min [at 1 Nm (0.1 kgm, 0.7 ft.lbs.) load]	Total Annual Control of the Control		
Low speed	44-52		
High speed	63-77		
No load minimum start voltage V	8		
No load current A	3.5		
Wiper blade			
Wiping angle			
Driver's side	81.0°-84.0°		
Passenger's side	98.0°-101.0°		
Wiper blade length mm (in.)	275 200 A 150		
Vehicles for Europe and Australia	434 (17)		
Vehicles for General Export	425.5 (16.8)		
Window washer motor and pump	\$30,000,000 cm (\$50 cm 600) cm (\$50 cm 600)		
Motor type	Direct current ferrite magnet type		
Pump type	Centrifugal type		
Power consumption A	3.0 or less		
Allowable period of continuous use sec.			
With washer fluid	Max. 20		
Nozzle jet pressure kPa (kg/cm², psi)	70 (0.7, 12.8) or more		
Tank capacity lit. (U.S.qts., Imp.qts)	1.5 (1.6, 1.3) or more		

REAR WIPER

Items	Specifications		
Wiper motor		-	
No load characteristic			
Oscillating speed c/min.	50-60		
Current A	2 or less		
Wiper blade			
Wiping angle	105°-111°		
Blade length mm (in.)	Standards Standards		
Vehicles for Europe and Australia	384 (15.1)		
Vehicles for General Export	359 (14.1)		
Window washer motor and pump			
Motor type	Direct current ferrite magnet type		
Pump type	Centrifugal type		
Power consumption A	3.8 or less		
Allowable period of continuous use sec.			
With washer fluid	Max. 60		
Empty operation	Max. 20		
Nozzle jet-spray pressure kPa (kg/cm², psi)	120 (1.2, 17.1) or more		
Tank capacity lit. (U.S.qts., Imp.qts.)	1.2 (1.3, 1.1) or more		

HEADLAMP WASHER (VEHICLES FOR EUROPE)

Items		Specifications
Washer motor and pump		31-31-31 St. 10-31-31-31-31-31-31-31-31-31-31-31-31-31-
Motor type		Direct current ferrite magnet type
Pump type		Centrifugal type
Power consumption	A	21 or less
Nozzle injection pressure	kPa (kg/cm², psi)	180 (1.8, 25.6) or more
Tank capacity	lit. (U.S.qts., Imp.qts.)	3.5 (3.7, 3.1) or more
Check valve		
Valve opening and closing pr	essure kPa (kg/cm², psi)	50 - 110 (0.5 - 1.1, 7.1 - 15.6)

SERVICE SPECIFICATIONS

E51CB--

Items		Specifications
Standard value		1.50
Windshield wiper blade stopping position (distance between blade tip and front deck garnish)	mm (in.)	35 – 45 (1.4 – 1.8)
Rear wiper blade stopping position (distance between blade tip and liftgate garnish)	mm (in.)	25 – 35 (1.0 – 1.4)

TORQUE SPECIFICATIONS

E51CC --

Nm	kgm	ft.lbs.
30 – 40	3.0 – 4.0	21 – 28
2.5 or less	0.25 or less	1.8 or less
10 – 16	1.0 – 1.6	7 – 12
10 – 16	1.0 – 1.6	7 – 12
6-9	0.6 - 0.9	4.3 - 6.5
	30 – 40 2.5 or less 10 – 16 10 – 16	30 – 40 3.0 – 4.0 2.5 or less 0.25 or less 10 – 16 1.0 – 1.6 10 – 16 1.0 – 1.6

SEALANTS AND ADHESIVES

E51CE - --

Items	Specified sealants and adhesives	Remarks	
Moulding end	3M ATD Part No. 8001 or equivalent	Drying adhesive	

SPECIAL TOOLS

E51DA - -

Tool (Number and name)	Use	Tool (Number and name)	Use
MB990784 Ornament remover	Removal of the moulding and garnish	MB990528 Stripe tape spatula	Bonding of the stripe tape

Jun. 1990

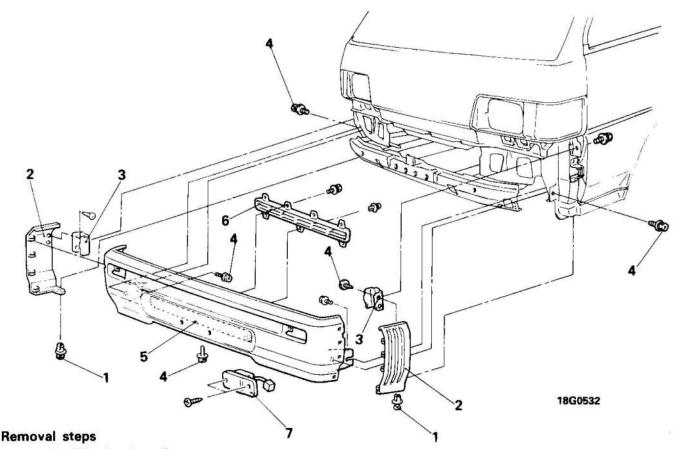
FRONT BUMPER (TYPE A)

REMOVAL AND INSTALLATION

E51GAAG

Pre-removal Operation (Vehicles with grille guard)

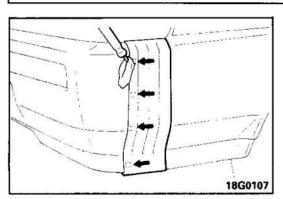
 Removal of grille guard and bumper guard (Refer to P.51 – 15.)



- 1. Trim bracket clip
- 2. Front bumper side
 - 3. Front side bracket
 - Front bumper center assembly attaching bolt
 - 5. Front bumper center assembly
 - 6. Front bumper grille <4WD>
 - Front combination lamp (Vehicles with crystal light roof)

NOTE

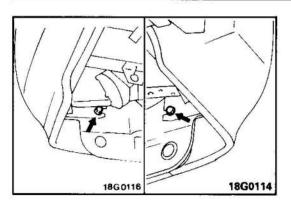
- (1) Reverse the removal procedures to reinstall.
- (2) : Refer to "Service Points of Removal".



SERVICE POINTS OF REMOVAL

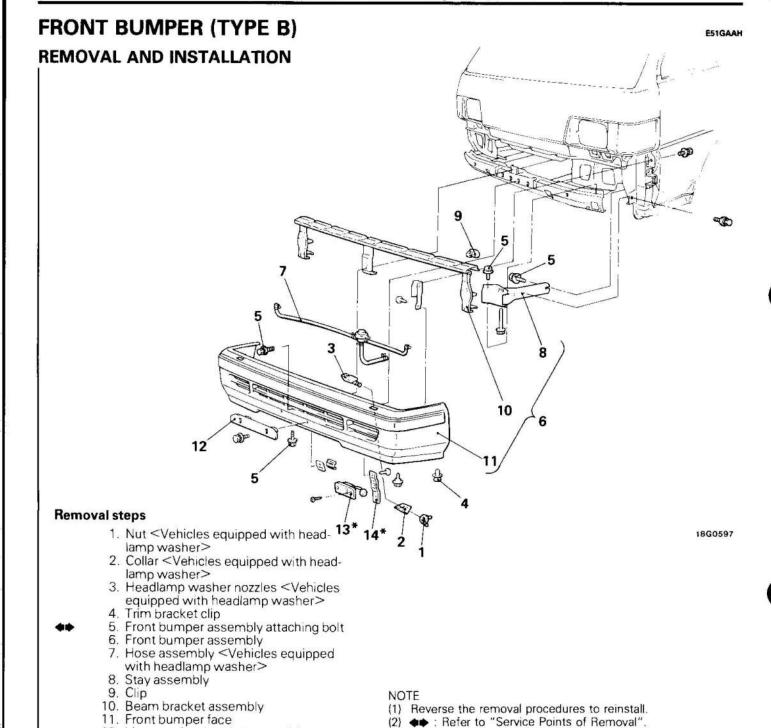
2. REMOVAL OF FRONT BUMPER SIDE/3. FRONT SIDE BRACKET

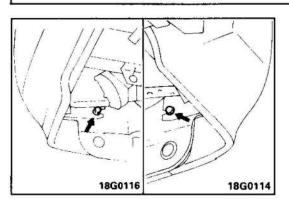
Pry off front bumper side clips (4) with screwdriver etc.



4. REMOVAL OF FRONT BUMPER CENTER ASSEMBLY ATTACHING BOLTS

As a safety precaution, first remove front bumper center assembly installing bolt of front outer side seal.





14. Lamp bracket

12. Licence plate bracket assembly

13. Front combination lamp assembly

SERVICE POINTS OF REMOVAL

5. REMOVAL OF FRONT BUMPER ASSEMBLY ATTACHING BOLT

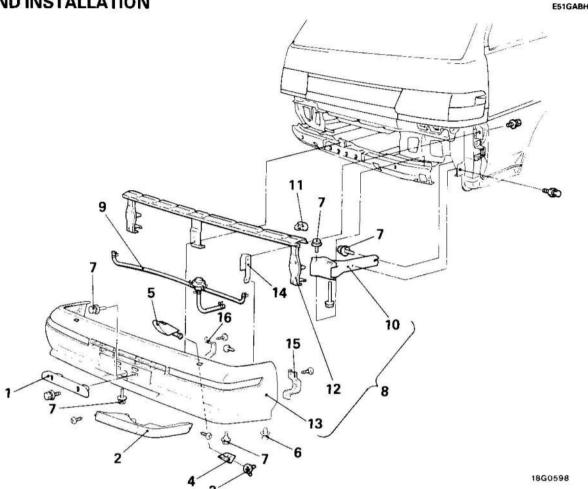
As a safety precaution, first remove front bumper assembly installing bolt of front outer side seal.

(3) * : Only for the model that the front combination

lamp is of type incorporating the bumper.

FRONT BUMPER (TYPE C)

REMOVAL AND INSTALLATION



Removal steps

- 1. Licence plate bracket assembly
- 2. Front combination lamp assembly
- Nut < Vehicles equipped with headlamp washer>
- Collar < Vehicles equipped with headlamp washer>
- 5. Washer nozzles < Vehicles equipped with headlamp washer >
- 6. Trim bracket clip
- 7. Front bumper assembly attaching bolts
- 8. Front bumper assembly
- Hose assembly <Vehicles equipped with headlamp washer>
- 10. Stay assembly

- 11. Clip
- 12. Beam bracket assembly
- 13. Front bumper face
- 14. Side bracket
- 15. Lamp bracket (A)
- 16. Lamp bracket (B)

NOTE

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

18G0116 18G0114

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SERVICE POINTS OF REMOVAL

7. REMOVAL OF FRONT BUMPER ASSEMBLY AT-TACHING BOLT

As a safety precaution, first remove front bumper assembly installing bolt of front outer side seal.

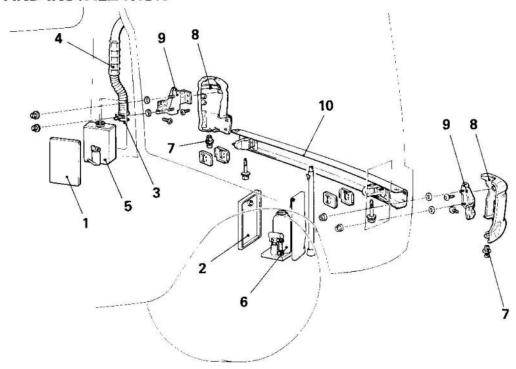
NOTE

REAR BUMPER (TYPE A)

E51GAAI

18G0125

REMOVAL AND INSTALLATION



Removal steps

- 1. Lid (R.H.) 2. Lid (L.H.)
- 3. Clip (vehicles with a rear wiper)
- 4. Hose (vehicles with a rear wiper)
- 5. Washer tank assembly (vehicles with a rear wiper)

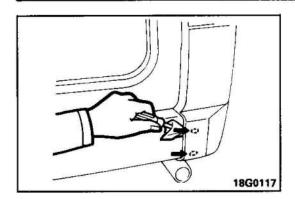
Jun. 1990

- Stowage tool
 Trim bracket clip

- 8. Rear bumper side
- Rear side bracket
 - 10. Rear bumper center

NOTE

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



SERVICE POINTS OF REMOVAL

8. REMOVAL OF REAR BUMPER SIDE/9. REAR SIDE BRACKET

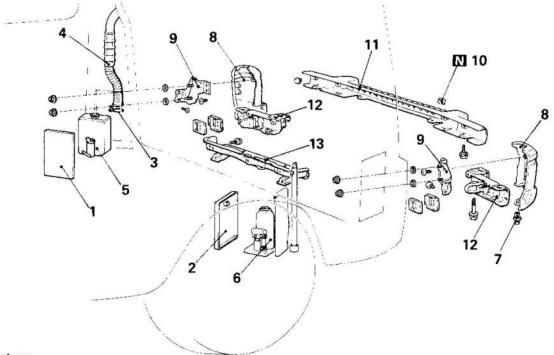
Pry off rear bumper side clips (2) with screwdriver etc.

REAR BUMPER (TYPE B)

E51GAAJ

18G0126

REMOVAL



Removal steps

- 1. Lid (R.H.)
- 2. Lid (L.H.)
- 3. Clip (vehicles with a rear wiper)
- 4. Hose (vehicles with a rear wiper)5. Rear washer tank assembly (vehicles with a rear wiper)
- 6. Stowage tool
- 7. Trim bracket clip
- 8. Rear bumper side

- 9. Rear side bracket
- 10. Clip
- 11. Rear bumper center
 - 12. Rear bumper back beam assembly
 - 13. Rear bumper reinforce

NOTE

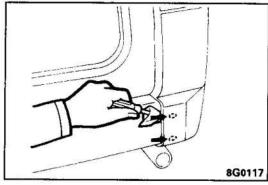
- (1) Reverse the removal procedures to reinstall.
- (2) : Refer to "Service Points of Removal".
- (3) N : Non-reusable parts

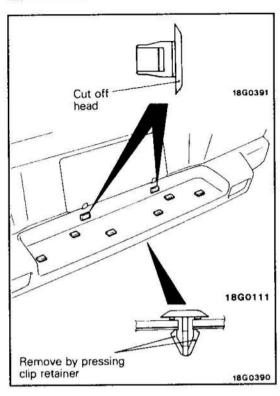


SERVICE POINTS OF REMOVAL

8. REMOVAL OF REAR BUMPER SIDE/9. REAR SIDE **BRACKET**

Pry off rear bumper side clips (2) with screwdriver etc.

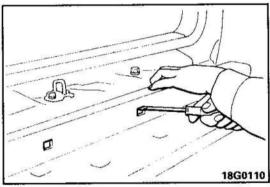




10. REMOVAL OF CLIP

Remove rear bumper center upper clips (6) by pressing clip retainers.

Remove rear bumper center side clips (2) by cutting off heads.



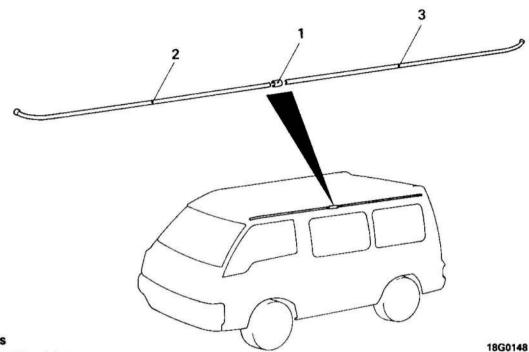
11. REMOVAL OF REAR BUMPER CENTER/12. REAR BUMPER BACK BEAM ASSEMBLY

Remove by inserting screwdriver into rear bumper center step clip installing hole (either of the side two) and push up.

DRIP MOULDING

REMOVAL AND INSTALLATION

E51IDAB



Removal steps

- **4** 1. Moulding joint
- Front drip moulding
 - 3. Rear drip moulding

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

D18079

Insertion should be about equal. Front drip Rear drip moulding moulding Moulding joint 18G0155

SERVICE POINTS OF REMOVAL

1. REMOVAL OF MOULDING JOINT/2. FRONT DRIP MOULD-ING/3. REAR DRIP MOULDING

Remove moulding joint with screwdriver etc. Remove front and rear drip moulding.

SERVICE POINTS OF INSTALLATION

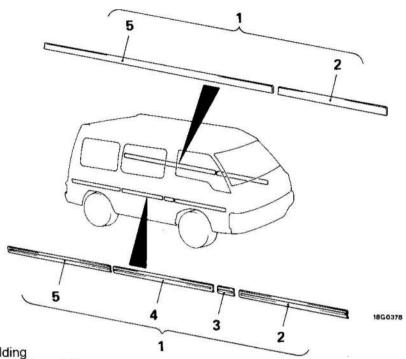
1. INSTALLATION OF MOULDING JOINT

Install moulding joint so that both rear and front drip mouldings are inserted equally.

SIDE PROTECT MOULDING

E51IDAC

REMOVAL AND INSTALLATION



- Side protect moulding

 - Front door side protect moulding Fuel lid side protect moulding (passenger side only)
 - Rear door side protect moulding (passenger side only)
 - Quarter side protect moulding

NOTE

- (1) : Refer to "Service Points of Removal".
- (2) : Refer to "Service Points of Installation".

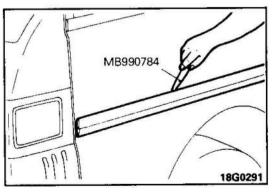
18G0280

SERVICE POINTS OF REMOVAL

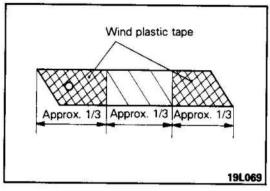
1. REMOVAL OF SIDE PROTECT MOULDING

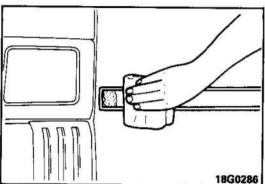
(1) Cut off adhesive from edge of side protect moulding with a cutter knife.

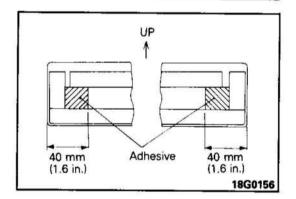
(2) Pry off side protect moulding with special tool.



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(3) Scrape off remaining adhesive so that new moulding can be adhered with adhesive or double sided adhesive tape.

Caution

Be careful not to scratch the body. Use touch-up paint to repair.

NOTE

18 mm (0.7 in.) cutter knife blade is appropriate. For safety, wind plastic tape where held.

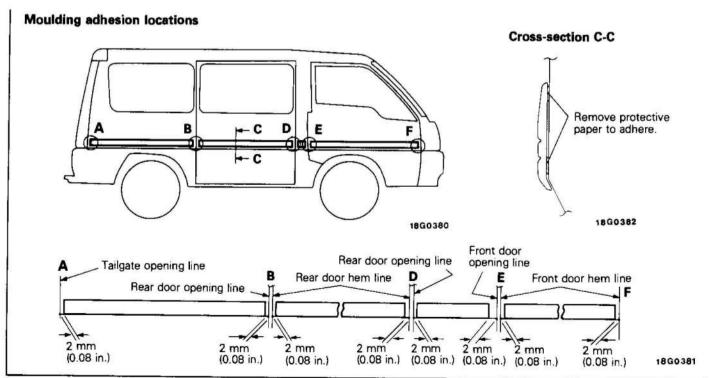
SERVICE POINTS OF INSTALLATION

- 1. INSTALLATION OF SIDE PROTECT MOULDING
 - (1) Use unleaded gasoline or toluene to wipe off oil from side protect moulding adhering area.

(2) Remove protective paper from double sided tape on side protect moulding. Apply adhesive to places indicated on the figure.

Specified adhesive: 3M ATD Part No. 8001 or equivalent

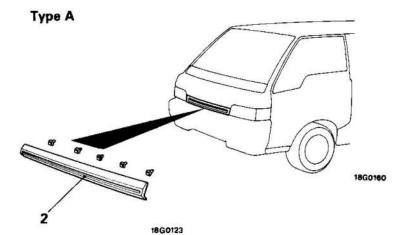
(3) Adhere side protect moulding to following places.

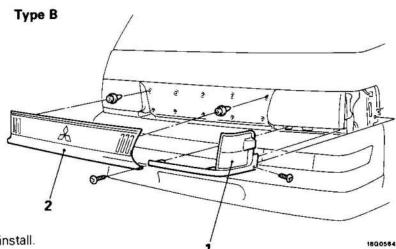


Jun. 1990

FRONT END GARNISH REMOVAL AND INSTALLATION

E51ICAD





Removal steps

1. Front combination lamp

44

2. Front end garnish

NOTE

(1) Reverse the removal procedures to reinstall.

(2) • : Refer to "Service Points of Removal".

Type A MB990784 18G0106 Type B MB990784 Clip 18G0582

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SERVICE POINTS OF REMOVAL

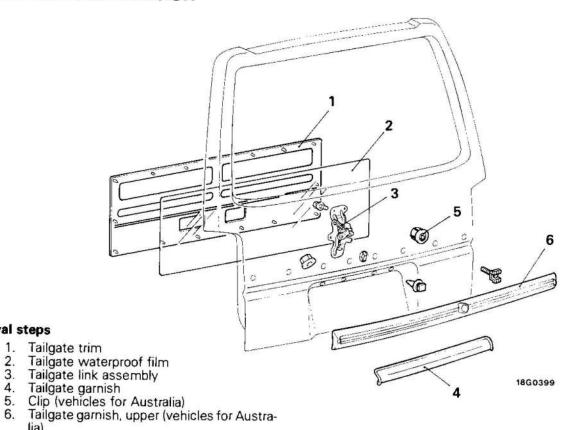
2 . REMOVAL OF FRONT END GARNISH

Pry front end garnish clips with special tool and remove front end garnish.

TAILGATE GARNISH

REMOVAL AND INSTALLATION

E51ICAE



NOTE

Removal steps

2.

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

MB990784 18G0279

MB990784 18G0096

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SERVICE POINTS OF REMOVAL

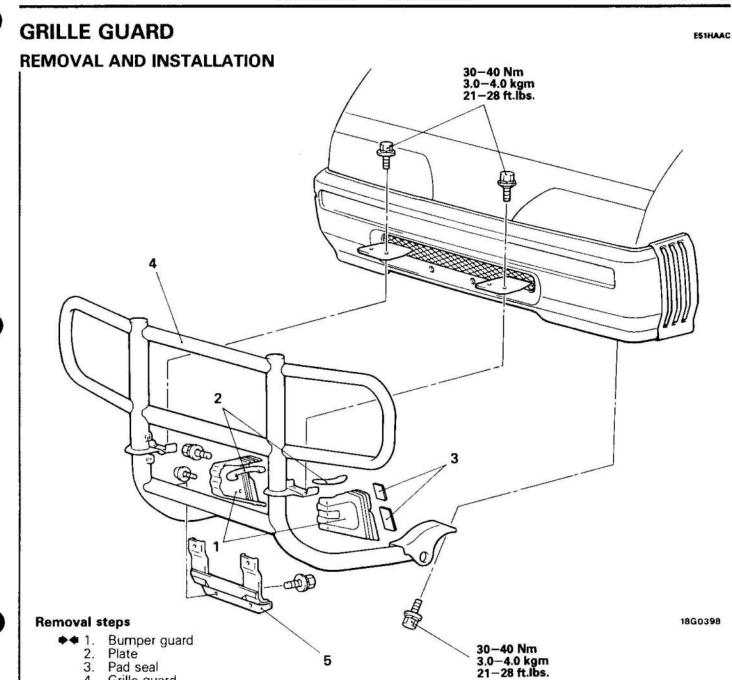
1. REMOVAL OF TAILGATE TRIM

Pry tailgate trim clip (14) with special tool and remove tailgate trim.

6. REMOVAL OF TAILGATE GARNISH, UPPER

Pry tailgate garnish upper clips (6) with special tool and remove tailgate garnish upper.

PWWE8608



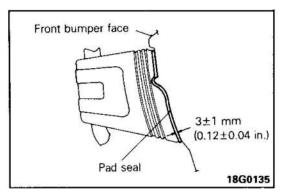
NOTE

(1) Reverse the removal procedures to reinstall.

Grille guard

(2) • : Refer to "Service Points of Installation".

License plate bracket



SERVICE POINTS OF INSTALLATION

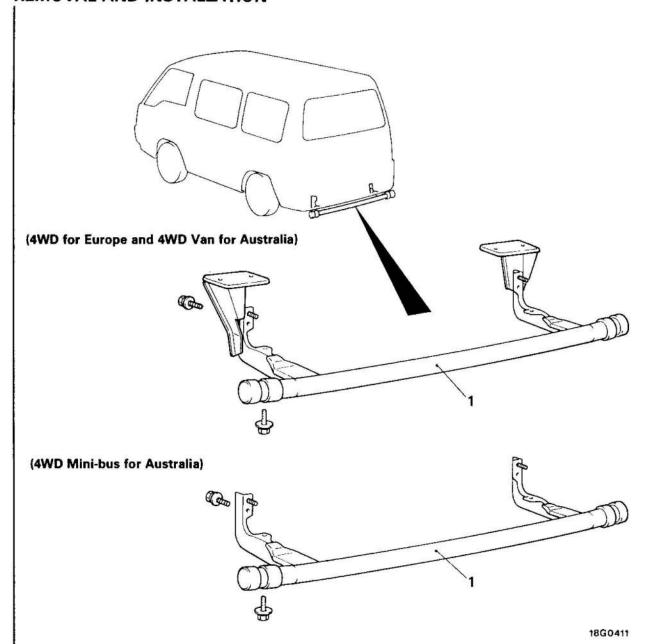
1. INSTALLATION OF BUMPER GUARD

Push bumper guard so that pad seal is as the measurements shown in the figure and tighten bumper guard installing bolt.

REAR UNDER GUARD

E51HAAD

REMOVAL AND INSTALLATION

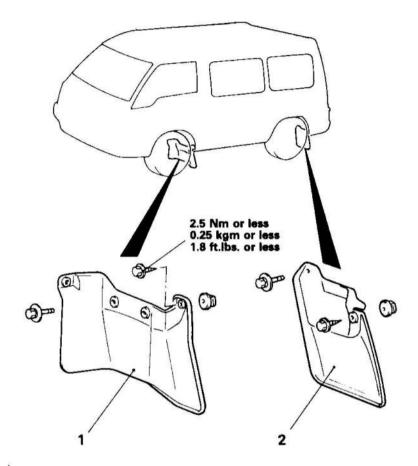


1. Rear under guard

MUD GUARD

ES1GAAA

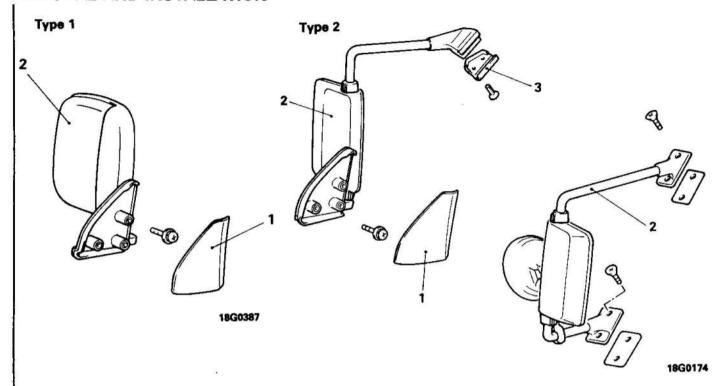
REMOVAL AND INSTALLATION



- Front mud guard
 Rear mud guard

OUTSIDE MIRROR

REMOVAL AND INSTALLATION



Type 1 removal steps

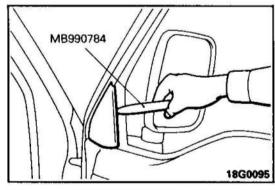
- Front door corner cover (inner)
- Door mirror

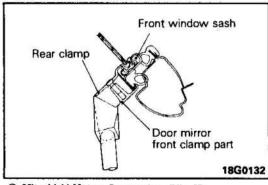
NOTE

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

Type 2 removal steps

- 3. Rear clamp
- Front door corner cover (inner)
 - Door mirror





SERVICE POINTS OF REMOVAL

1. REMOVAL OF FRONT DOOR CORNER COVER (INNER)

Pry off front door corner cover (inner) with special tool.

SERVICE POINTS OF INSTALLATION

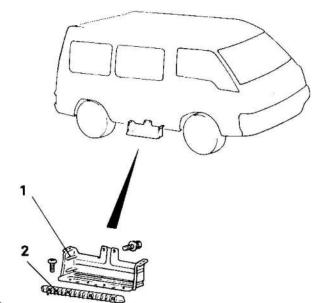
3. INSTALLATION OF REAR CLAMP/2, DOOR MIRROR

Hold the front door window sash with the rear clamp and the door mirror front clamp and tighten with the installation bolt so that it doesn't rattle.

REAR DOOR STEP (4WD)

ES1RAAA

REMOVAL AND INSTALLATION



Removal steps

- Rear door step
 Rear door step cover

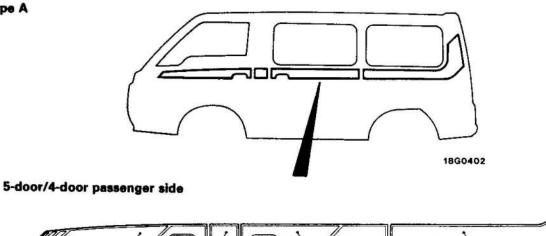
Reverse the removal procedures to reinstall.

STRIPE TAPE

ES1IEAD

REMOVAL AND INSTALLATION

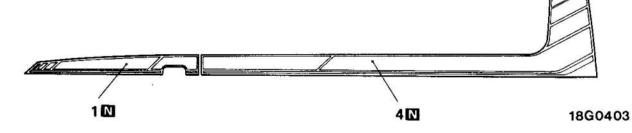




4-door driver side

1 N

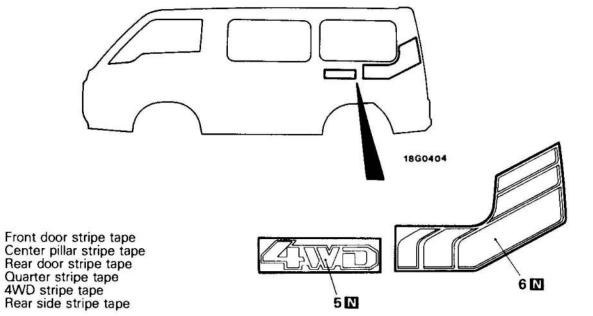
2 1



3 🛛

4 N

Type B



NOTE

(1) • : Refer to "Service Points of Installation".

(2) N : Non-reusable parts

18G0406

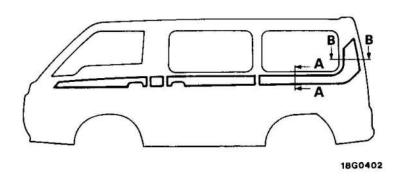
18G0408

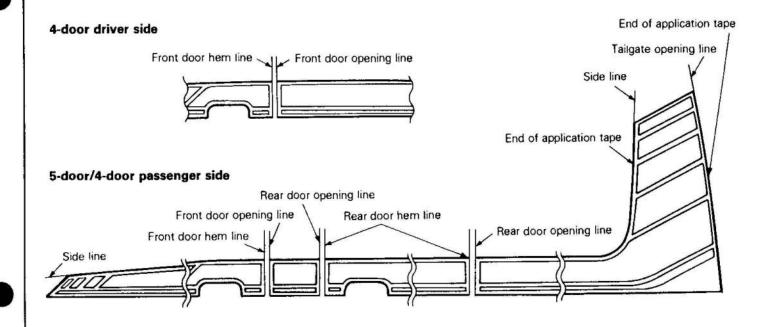
SERVICE POINTS OF INSTALLATION

1. INSTALLATION OF FRONT DOOR STRIPE TAPE/2. CENTER PILLAR STRIPE TAPE/3. REAR DOOR STRIPE TAPE/4. QUARTER STRIPE TAPE/5. 4WD STRIPE TAPE/6. REAR SIDE STRIPE TAPE

Adhere stripe tapes to following locations.

Type A





Application tape

Side line

Side line

Application tape

Stripe tape

Stripe tape

Section B-B

Section A-A

Type B End of application tapes Tailgate opening line Side line 18G0404 End of application tapes 54 mm (2.1 in.) Side line 205 mm (8.1 in.) 18G0409 199 mm (7.8 in.) Adhere stripe tapes in a straight line Section A-A Section B-B Application tape Side line Side line Tailgate opening line Application tape Stripe tape Stripe tape 18G0407 18G0408

- (1) Use unleaded gasoline or toluene to wipe off oil from stripe tape adhesion area.
- (2) Remove protective paper from back of stripe tape and adhere entirely to indicated area.

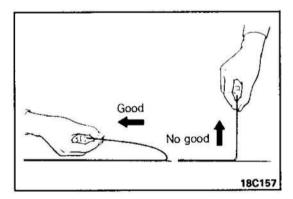
Caution

- Work in a dust-free workplace with temperature at 20-38°C (68-100°F).
- If workplace temperature is under 20°C (68°F), warm tape and vehicle body (adhesion area) to 20-38°C (68-100°F).
- (3) Use special tool and smooth out tape evenly starting from center of tape and up and then down to press out bubbles.

Caution

18C156

- Smoothing out horizontally will cause wrinkles and may displace the tape.
- · Adhere tape securely to prevent tape from peeling off.



MB990528

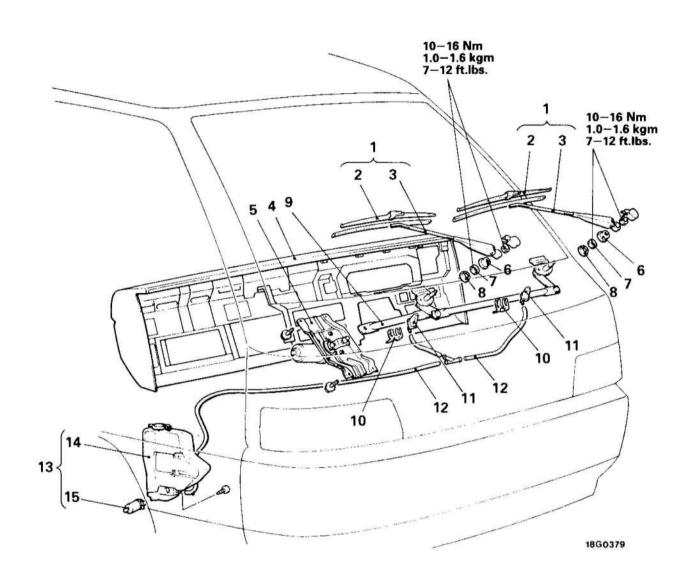
Tape

- (4) Hold one end of top protective paper and slowly peel off horizontally.
- (5) If bubbles are left under the tape, pierce slightly with needle and press out air with a spatula.

WINDSHIELD WIPERS AND WASHER

E51KAAE

REMOVAL AND INSTALLATION



Windshield wipers removal steps

- 1. Wiper blade arm assembly
 2. Wiper blades

 - 3. Wiper arm
- Instrument panel
- 5. Wiper motor assembly
 - 6. Cap
 - 7. Wiper pivot nut
 - 8. Washer with packing
 - 9. Wiper link assembly

Windshield washer removal steps

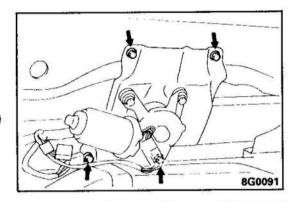
- 4. Instrument panel
 - 10. Holder
 - 11. Washer nozzle
 - 12. Washer tube
 - 13. Washer tank assembly
 - 14. Washer tank
 - 15. Washer motor and pump

- (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

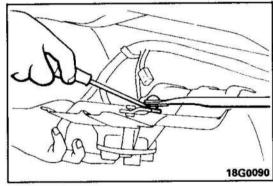
4. REMOVAL OF INSTRUMENT PANEL

Refer to GROUP 52 INTERIOR-Instrument Panel.



5. REMOVAL OF WIPER MOTOR ASSEMBLY

(1) Remove wiper motor assembly attaching bolts.

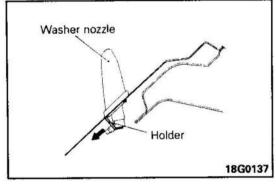


(2) Disconnect wiper motor and wiper linkage assemblies. Remove wiper motor assembly.

Caution

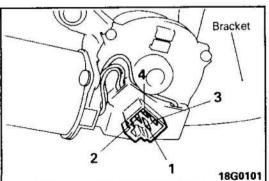
Auto-stop angle is controlled so do not remove crank arm from wiper motor unless necessary.

When removing, mark crank arm and wiper motor.



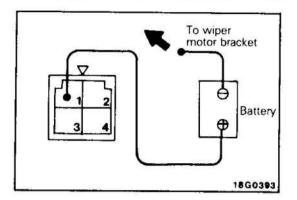
11. REMOVAL OF WASHER NOZZLE

Remove holder from inside and remove washer nozzle.



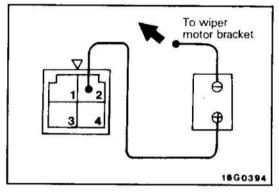
INSPECTION WIPER MOTOR

Disconnect the wiring connector from the wiper and connect battery to the wiper motor connector to check that the wiper motor runs.



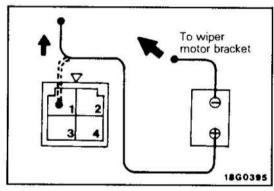
LOW SPEED OPERATION CHECK

Connect battery (+) to teminal 1 and battery (-) to the wiper motor bracket and check that the motor runs at low speed



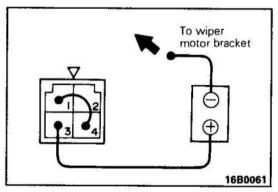
HIGH SPEED OPERATION CHECK

Connect battery (+) to terminal 2 and battery (-) to the wiper motor bracket and check that the motor runs at high speed.

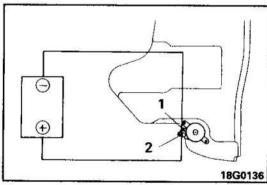


AUTOMATIC STOP OPERATION CHECK

- (1) Connect battery (+) to terminal 1 and battery (-) to the wiper motor bracket to run the motor at low speed.
- (2) Disconnect terminal 1 during operation to stop the motor.



(3) Connect terminal 1 to terminal 4 and connect battery (+) to terminal 3 and battery (-) to the wiper motor bracket to check that the motor starts to run at low speed and then stops.

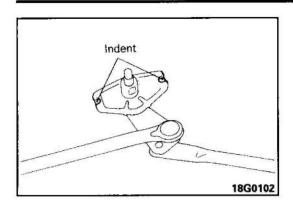


WASHER MOTOR AND PUMP

Make the check while the motor is installed to the washer tank.

- (1) Check to be sure that there is washer fluid in the washer tank.
- (2) Check to be sure that the washer motor operates and the fluid is forced out under pressure when the battery positive (+) terminal is connected to terminal 2 and the negative (-) terminal is connected to terminal 1.

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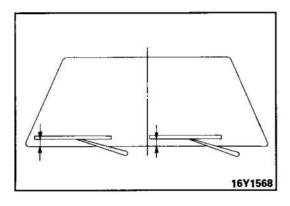
SERVICE POINTS OF INSTALLATION

9. INSTALLATION OF WIPER LINKAGE ASSEMBLY

Fit wiper linkage assembly lock base indents (2) to vehicle body side projections and install wiper linkage assembly.

5. INSTALLATION OF WIPER MOTOR ASSEMBLY

If wiper motor assembly is removed, confirm that it is securely earthed after reinstalling.



1. INSTALLATION OF WIPER BLADE ARM ASSEMBLY

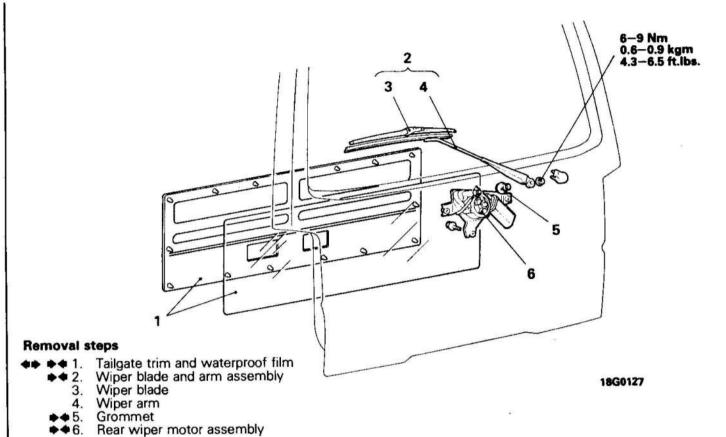
Install wiper blade so that it is within the standard value.

Standard value: 35 - 45 mm (1.4 - 1.8 in.)

REAR WIPER

ESTLAND

REMOVAL AND INSTALLATION

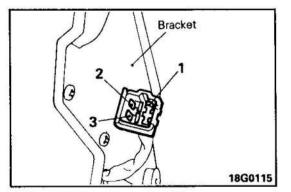


NOTE

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

SERVICE POINTS OF REMOVAL

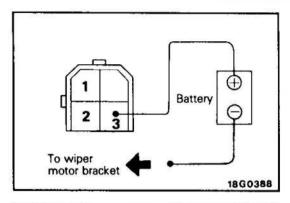
1. REMOVAL OF TAILGATE TRIM AND WATERPROOF FILM Refer to GROUP 42 BODY-Tailgate Trim and Waterproof Film.



Disconnect the wiring connector from the wiper motor and connect battery to the wiper motor connector to check that the wiper motor runs.

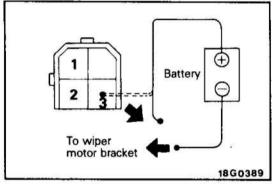
INSPECTION

WIPER MOTOR



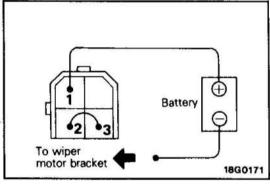
OPERATION CHECK

Connect battery (+) to terminal 3 and battery (-) to the wiper motor bracket to check that the motor runs.

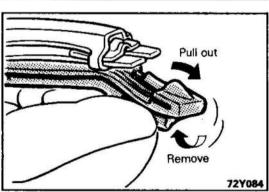


AUTOMATIC OPERATION CHECK

- (1) Connect battery (+) to terminal 3 and battery (-) to the wiper motor bracket to run the motor.
- (2) While the motor is running, disconnect terminal 3 to stop the motor.

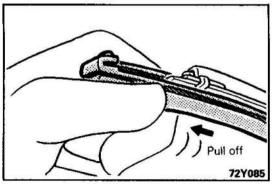


(3) Connect terminal 2 to terminal 3 and connect battery (+) to terminal 1 and battery (-) to wiper motor bracket to check that the motor starts to run again and then stops.



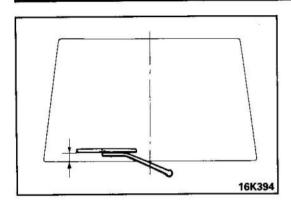
WIPER BLADE RUBBER REPLACEMENT

(1) Pull rubber out slightly to remove.



(2) Remove rubber by pulling off rubber from opposite side.

(3) Reverse removal procedures to reinstall new rubber.



2. INSTALLATION OF WIPER BLADE AND ARM ASSEMBLY Install wiper blade so that it is within the standard value.

Standard value: 25 - 35 mm (1.0 - 1.4 in.)

1. INSTALLATION OF TAILGATE TRIM AND WATERPROOF FILM

Refer to GROUP 42 - Tailgate Trim and Waterproof Film.

REAR WASHER

REMOVAL AND INSTALLATION

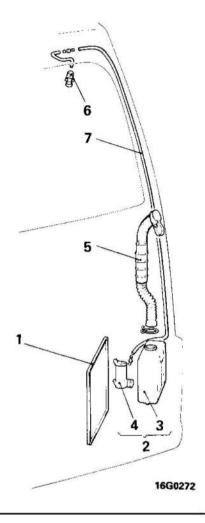
ESILBAF

Removal steps

- Washer tank assembly
- Washer tank
- Washer motor and pump
- Hose
- - Washer nozzle
 - Washer tube

NOTE

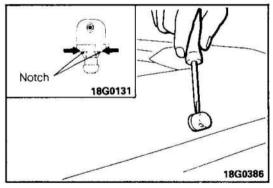
- (1) Reverse the removal procedures to reinstall.
- (2) ****** : Refer to "Service Points of Removal".

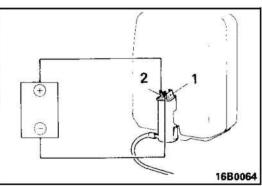


SERVICE POINTS OF REMOVAL

6. REMOVAL OF REAR WASHER NOZZLE

Push rear washer nozzle notch with screwdriver etc., and remove rear washer nozzle.





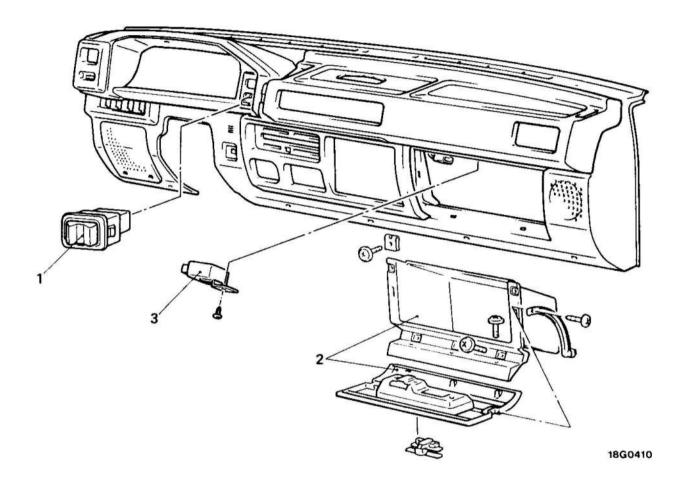
WASHER MOTOR AND PUMP Make the check while the motor is installed to the washer tank.

- (1) Check to be sure that there is washer fluid in the washer tank.
- (2) Check to be sure that the washer motor operates and the fluid is forced out under pressure when the battery's positive (+) terminal is connected to terminal 2 and the negative (-) terminal is connected to terminal 1.

INSPECTION

REAR WIPER AND WASHER SWITCH, REAR INTERMITTENT WIPER RE-LAY E51LCAD

REMOVAL AND INSTALLATION



Rear wiper and washer switch removal

1. Rear wiper and washer switch

Rear intermittent wiper relay removal steps

- Glove box
 Rear intermittent wiper relay

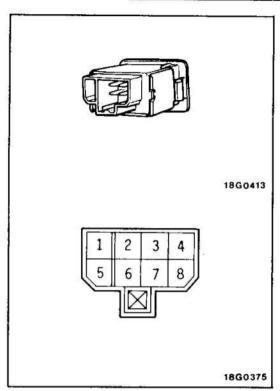
- (1) Reverse the removal procedures to reinstall.
- (2) : Refer to "Service Points of Removal".

Switch side retainers Meter hood MB990784 16G0183

SERVICE POINTS OF REMOVAL

1. REAR WIPER AND WASHER SWITCH

Use special tool and disconnect meter hood switch installing hole and switch side retainers. Remove hazard switch.



INSPECTION

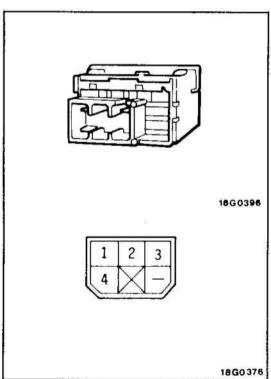
REAR WIPER AND WASHER SWITCH (with intermittent system)

Operate the switch, and check the continuity between the terminals.

Terminal Switch position	7	5	3	8	2	6
Washer	0-					-0
Wiper OFF		0-			0	
Wiper ON	0-	-			- 0	
INT		0_	0	_0	_0	

NOTE

O—O indicates that there is continuity between the terminals.



REAR WIPER AND WASHER SWITCH (without intermittent system)

Operate the switch, and check the continuity between the terminals.

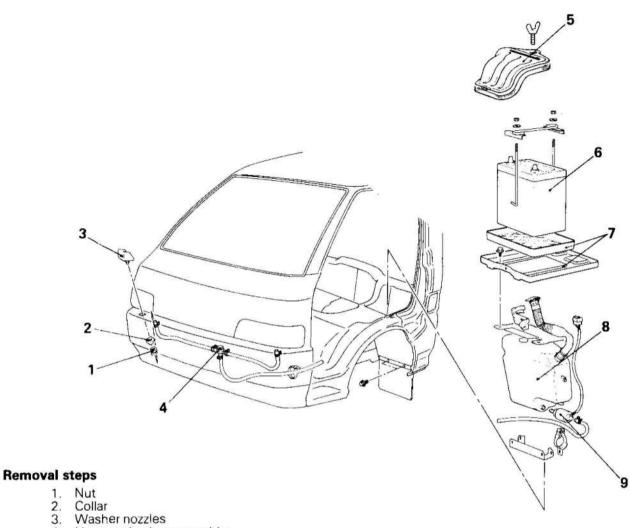
Switch position Terminal	2	4	1	3
Washer			0-	0
Wiper OFF	0	-0		
Wiper ON	0-			-0
Wiper Washer	0-		0-	00

NOIE

O—O indicates that there is continuity between the terminals.

HEADLAMP WASHER REMOVAL AND INSTALLATION

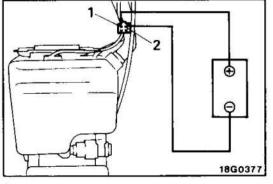
F51MAAD



- 4. Hose and valve assembly
- 5. Cover
- 6. Battery
- 7. Battery tray
- Headlamp washer tank assembly
- Washer motor and pump

NOTE

- Reverse the removal procedures to reinstall. (1)
- For the headlamp washer switch, refer to GROUP, 54-Column Switch.



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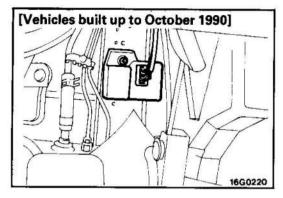
INSPECTION

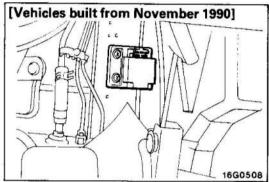
INSPECTION OF WASHER MOTOR AND PUMP

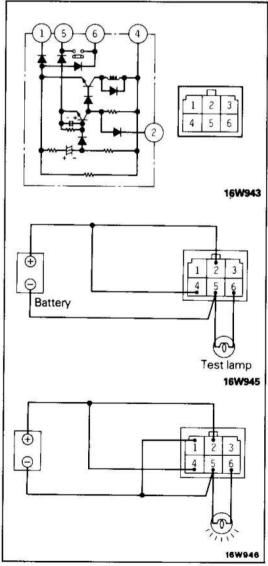
Make the check while the motor is installed to the washer tank.

- (1) Check to be sure that there is washer fluid in the washer tank.
- (2) Check to be sure that the washer motor operates and the fluid is forced out under pressure when the battery's positive (+) terminal is connected to terminal 1 and the negative (-) terminal is connected to terminal 2.

PWWE8608-I





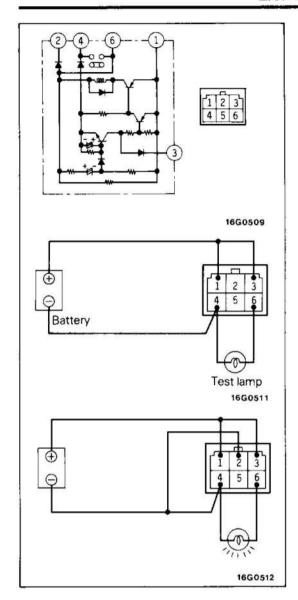


INSPECTION OF HEADLAMP WASHER RELAY

Remove headlamp washer relay from relay bracket.

[Vehicles built up to October 1990]

- (1) Connect the battery and the test lamp to the relay as shown in the figure.
- (2) If, when terminal 1 is connected to the negative (-) terminal of the battery, the lamp illuminates (for about 0.5 second), the unit is operating normally.



[Vehicles built from November 1990]

- (1) Connect the battery and the test lamp to the relay as shown in the figure.
- (2) If, when terminal 2 is connected to the negative (-) terminal of the battery, the lamp illuminates (for about 0.3 second), the unit is operating normally.

NOTE