

BODY**SECTION BF****CONTENTS****GENERAL SERVICING**

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(Including "Power Window" & "Power Door Lock") BF-10

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- Read GI section, "HOW TO READ WIRING DIAGRAMS".
- See EL section, "POWER SUPPLY ROUTING" for power distribution circuit.

BF

★ For seat belt, refer to MA section.

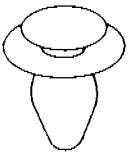
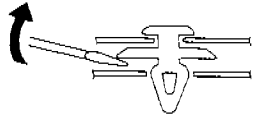
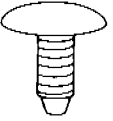
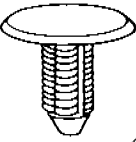
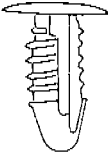
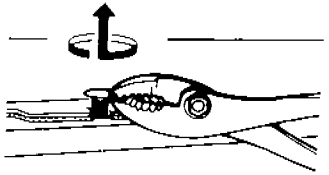
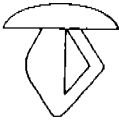
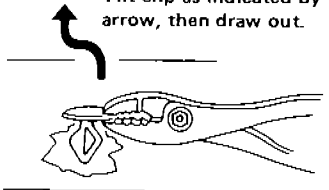
GENERAL SERVICING

Precautions

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installation. Be careful not to soil or damage them.
- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

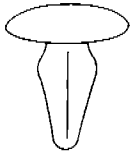
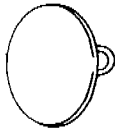
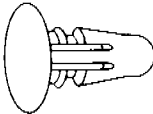
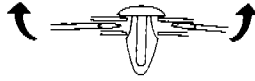
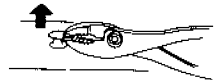
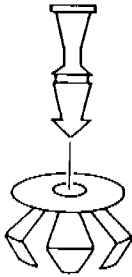
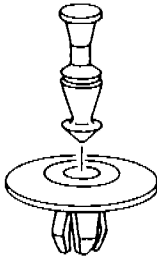
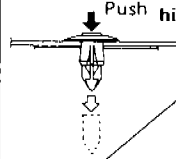
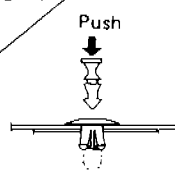
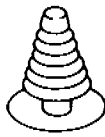
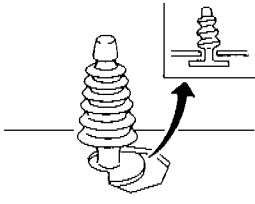
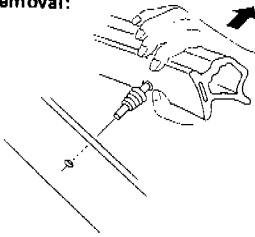
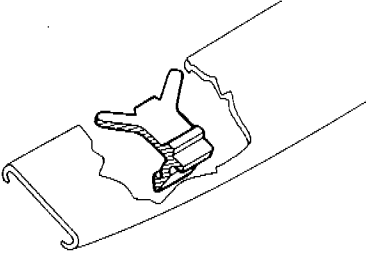
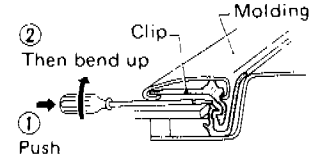
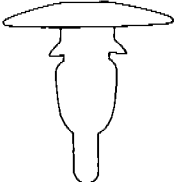
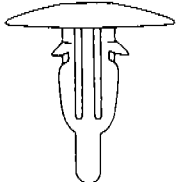
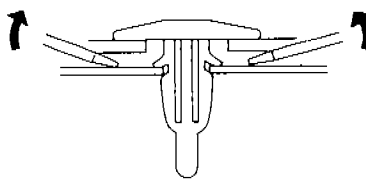
Clip and Fastener

- Clips and fasteners in BF section correspond to the following numbers and symbols.
- Replace any clips and/or fasteners which are damaged during removal or installation.

No.	Symbol	Shape	Removal & Installation
C101	 SBF092B	 SBF109B	Removal: Remove by bending up with a flat-bladed screwdriver.  SBF094B
C102	 SBF113B	 SBF114B  SBF137B	 Removal: Pull up by rotating. SBF115B
C105	 SBF141B	 SBF142B	Removal: Tilt clip as indicated by arrow, then draw out.  SBF143B

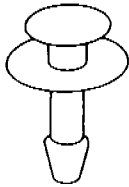
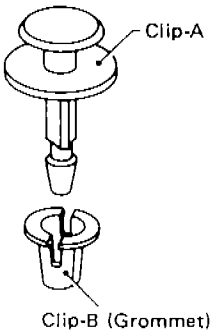
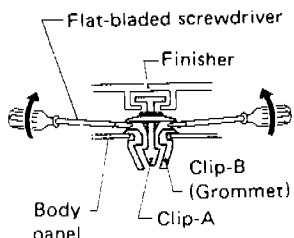
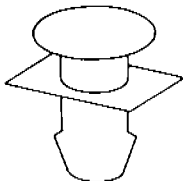
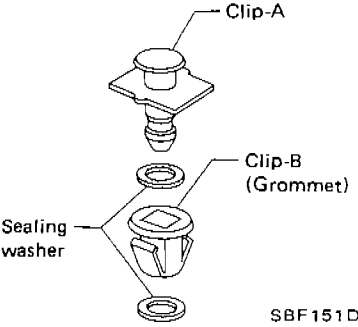
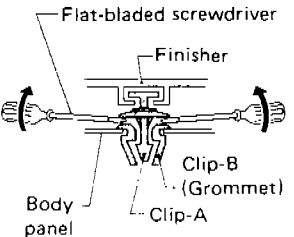
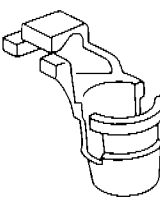
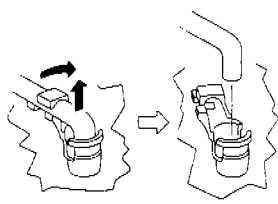
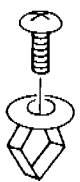
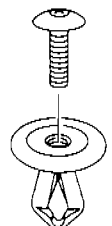
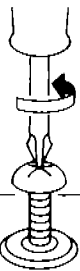
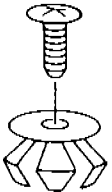
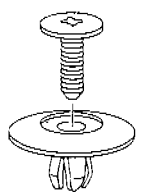
GENERAL SERVICING

Clip and Fastener (Cont'd)

No.	Symbol	Shape	Removal & Installation
C106	 SBF089B	  SBF090B	Removal: Remove with a flat-bladed screwdrivers or plier.   SBF091B
C203	 SBF318C	 SBF319C	Push center pin to catching position. (Do not remove center pin by hitting it.)   Installation: SBF320C
CE103	 SBF103B	 SBF104B	Removal:  SBF147B
CE106	 SBF653B		Removal:  SBF654B
CE117	 SBF173D	 SBF174D	Removal: Remove with a flat-bladed screwdriver or pliers.  SBF175D

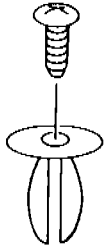
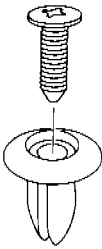
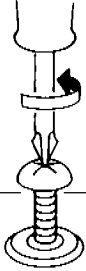
GENERAL SERVICING

Clip and Fastener (Cont'd)

No.	Symbol	Shape	Removal & Installation
CF113	 SBF035C	 SBF036C Clip-B (Grommet)	Removal:  SBF652B
CF118	 SBF150D	 SBF151D Sealing washer Clip-B (Grommet)	Removal:  SBF652B
CR103	 SBF768B		Removal: Holder portion of clip must be spread out to remove rod.  SBF770B
CS102	 SBF138B	 SBF139B	Removal: Screw out with a Phillips screwdriver.  SBF140B
CS103	 SBF363B	 SBF364B	

GENERAL SERVICING

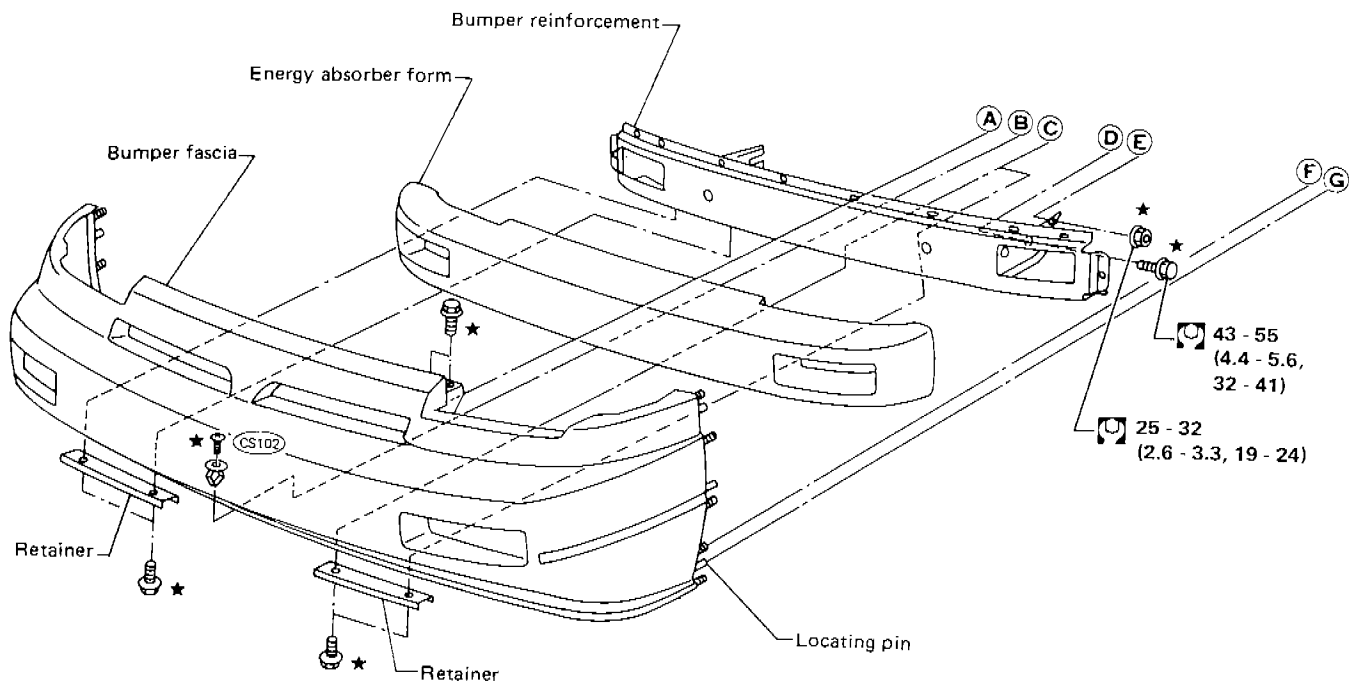
Clip and Fastener (Cont'd)

No.	Symbol	Shape	Removal & Installation
CS104	 SBF361B	 SBF362B	Removal: Screw out with a Phillips screwdriver.  SBF140B

BODY END

Body Front End

- Hood adjustment: Adjust at hinge portion.
- Hood lock adjustment: After adjusting, check hood lock control operation. Apply a coat of grease to hood locks engaging mechanism.
- Hood opener: Do not attempt to bend cable forcibly.



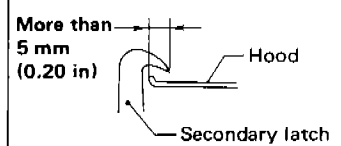
BODY END

Body Front End (Cont'd)

Hood lock adjustment

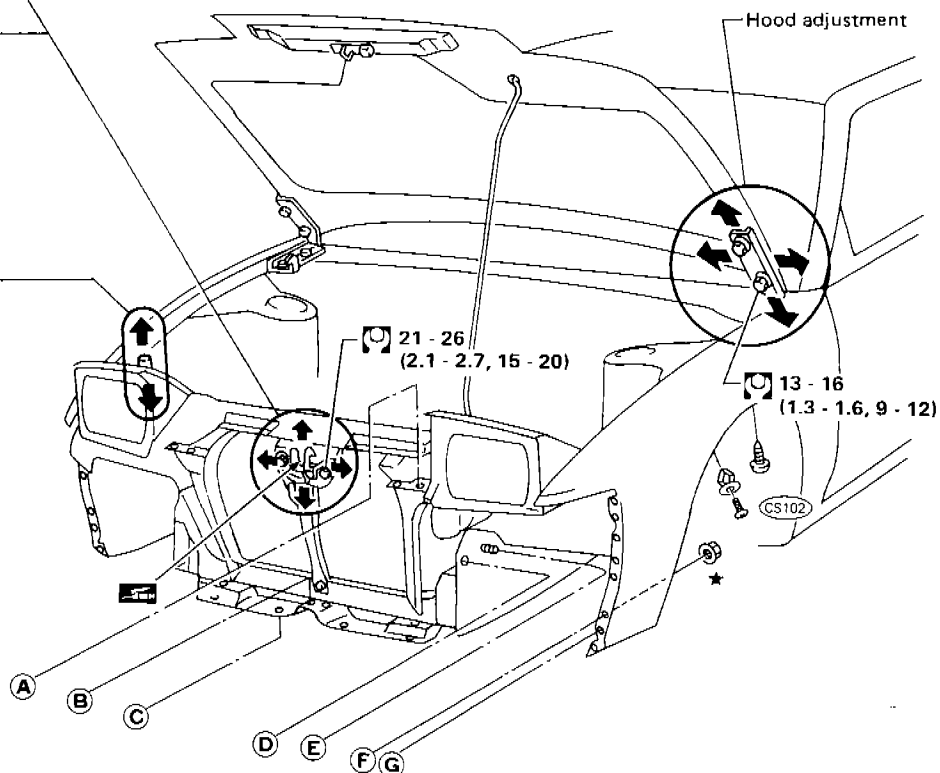
- Adjust lock so that hood primary lock meshes at a position where hood is 1 to 1.5 mm (0.039 to 0.059 in) lower than fender.
- After hood lock adjustment, adjust bumper rubber.
- When securing hood lock, ensure it does not tilt. Striker must be positioned at the center of hood primary lock.
- After adjustment, ensure that hood primary and secondary lock operate properly.

Hood lock secondary latch hooking length



Bumper rubber adjustment

- Adjust so that hood is aligned with fender. [Bumper rubber free height is approx. 20 mm (0.79 in).]



★ : Bumper assembly mounting bolts and nuts
⌘ : N·m (kg-m, ft-lb)

SBF385E

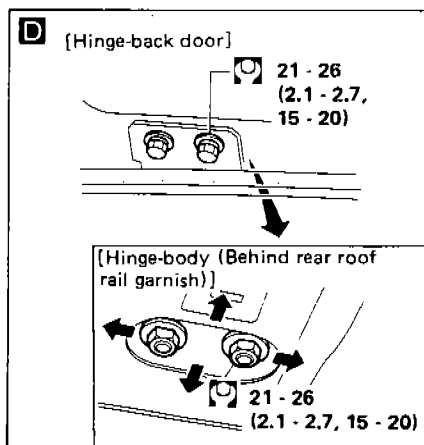
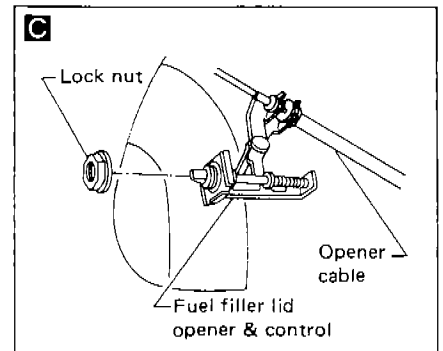
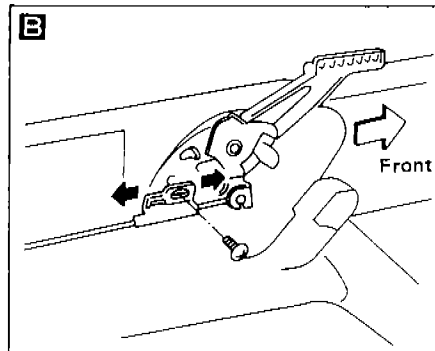
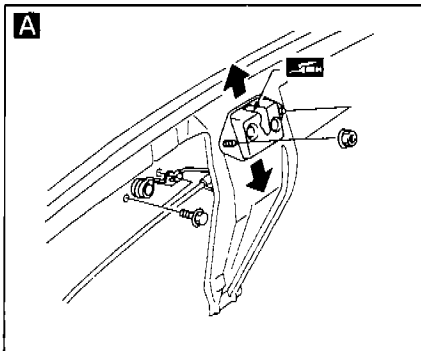
BODY END

Body Rear End and Opener

- Back door adjustment: Adjust at hinge-body portion for proper back door fit.
- Back door lock system adjustment: Adjust lock & striker so that they are in the center. After adjustment, check back door lock operation.
- Trunk lid adjustment: Adjust at hinge-trunk lid portion for proper trunk lid fit.
- Trunk lid lock system adjustment: Adjust striker so that it is in the center of the lock. After adjustment, check trunk lid lock operation.

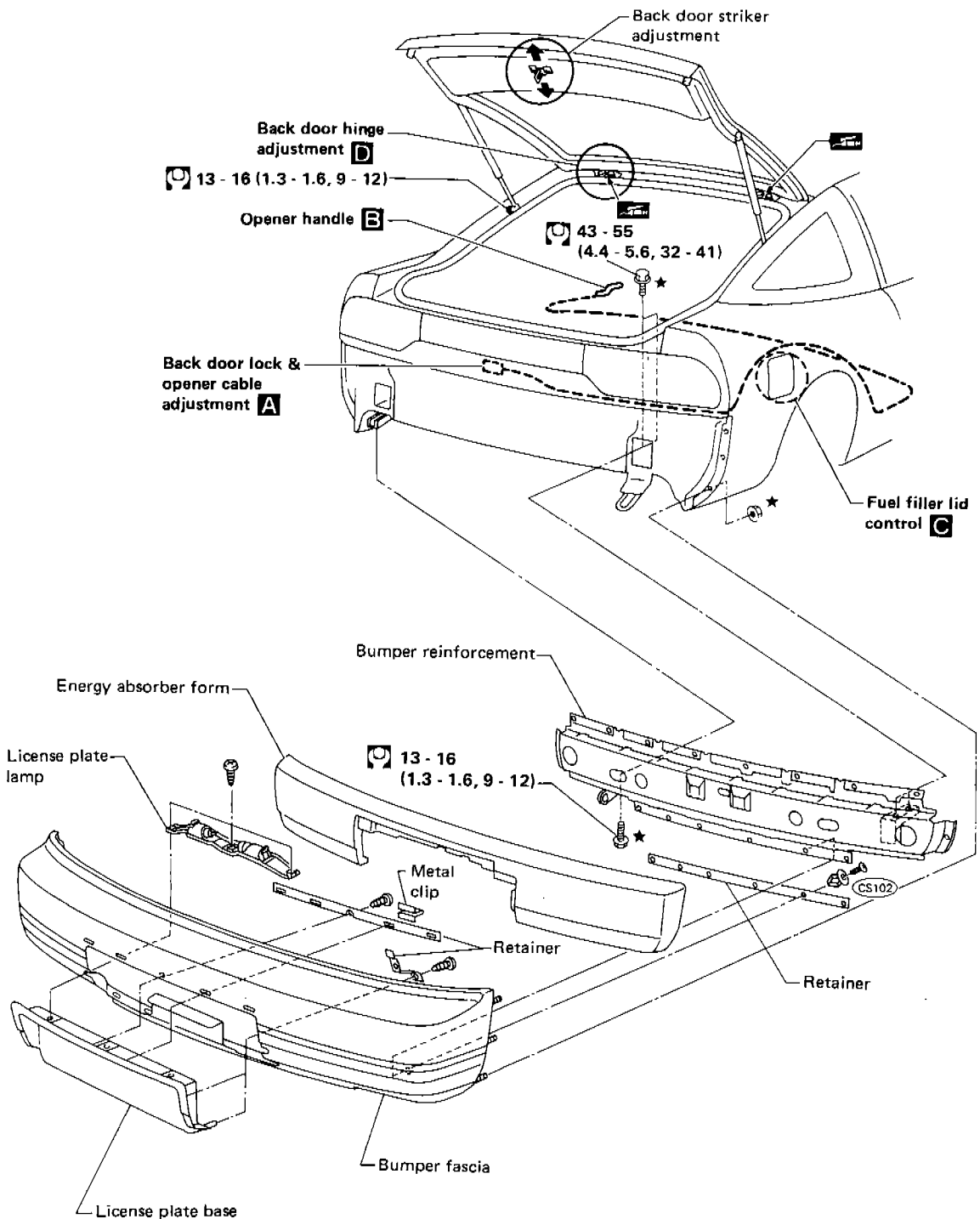
WARNING:

- a. Be careful not to scratch back door stay when installing back door. A scratched stay may cause gas leakage.
 - b. The contents of the back door stay are under pressure. Do not take apart, puncture, apply heat or allow fire near it.
- Opener cable: do not attempt to bend cable using excessive force.
 - After installation, make sure that trunk lid/back door and fuel filler lid open smoothly.
 - Before removing rear bumper, remove right drafter which is secured with two upper nuts and butyl seal.



BODY END

Body Rear End and Opener (Cont'd)



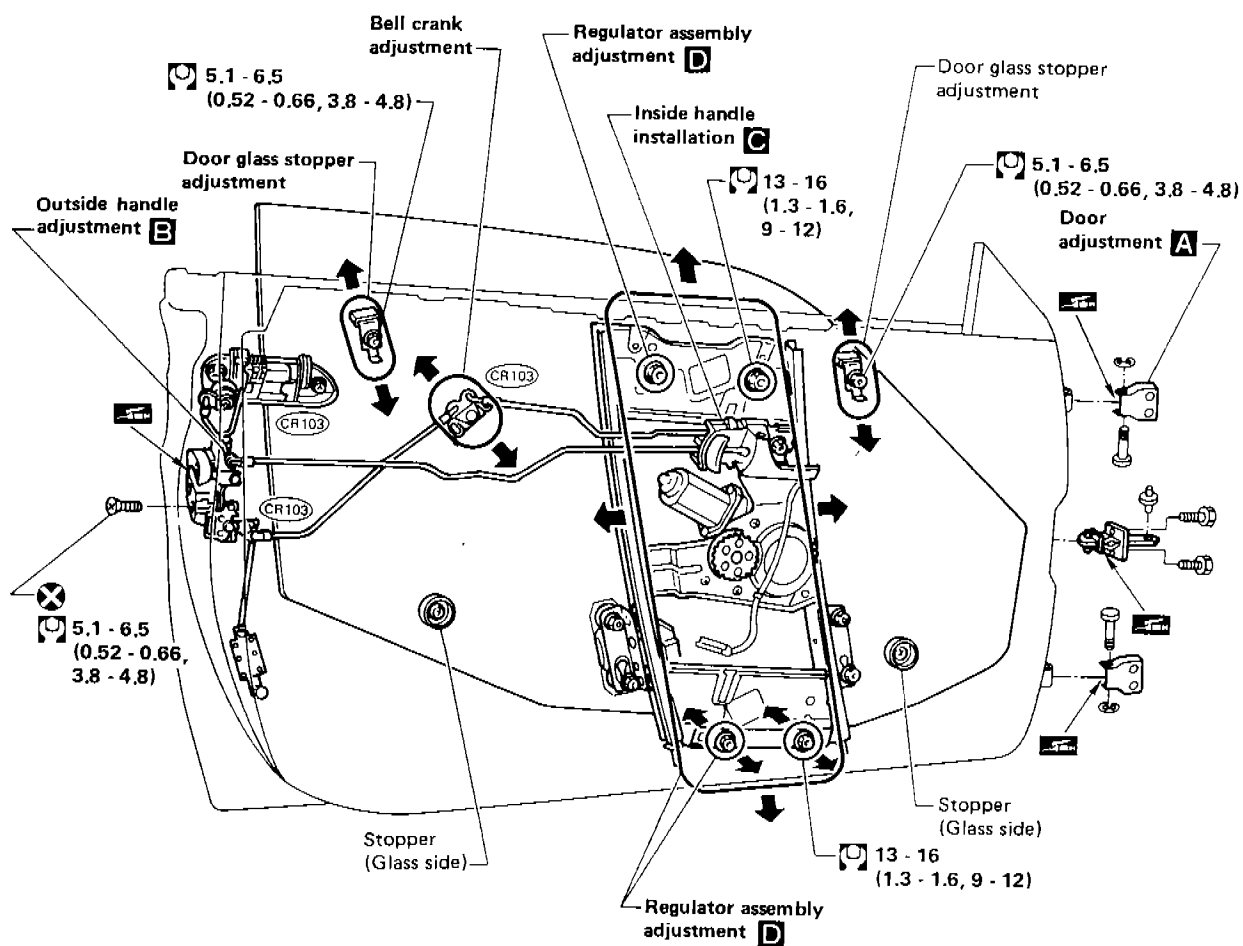
★ : Bumper assembly mounting bolts and nuts

⊙ : N·m (kg·m, ft·lb)

SBF376E

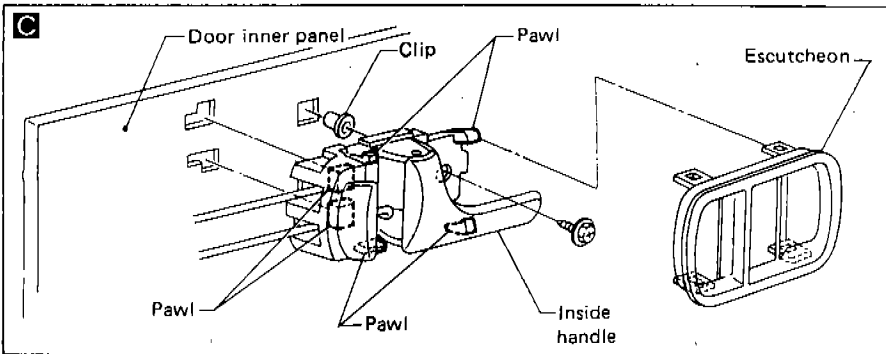
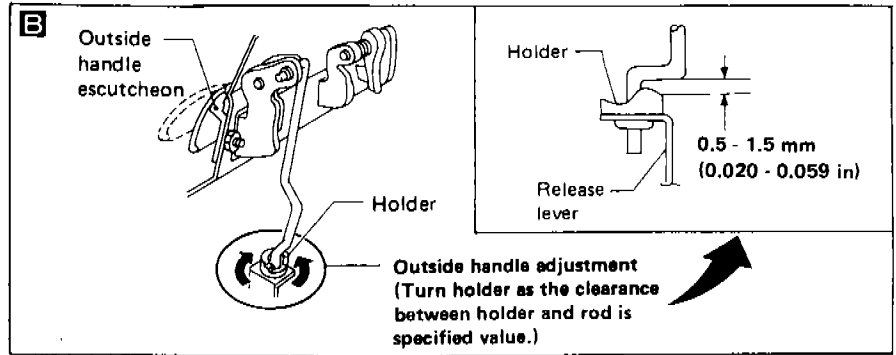
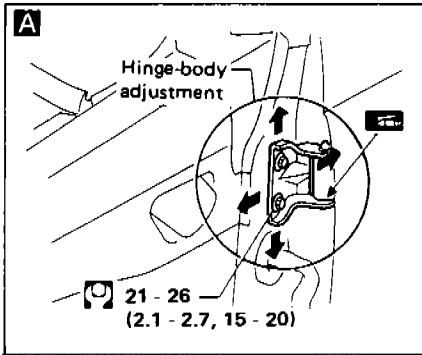
DOOR

- After adjusting door or door lock, check door lock operation.

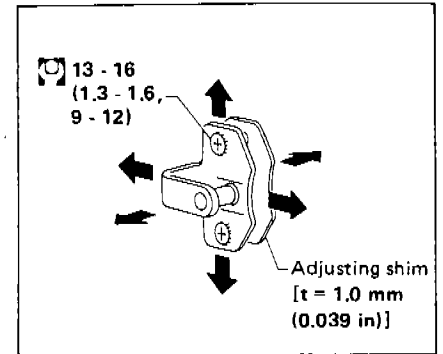


: N·m (kg-m, ft-lb)

DOOR



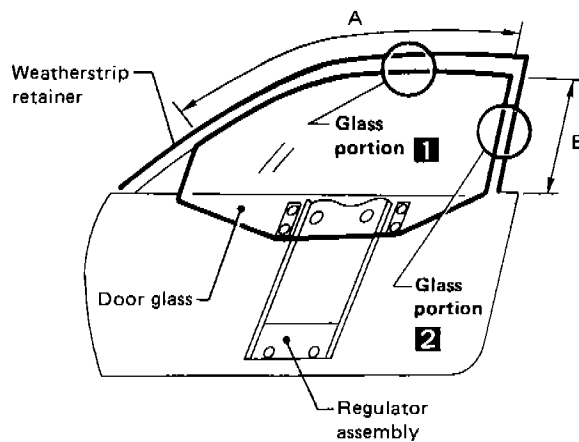
Striker adjustment



D

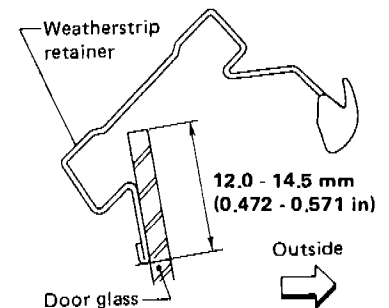
- Remove weatherstrip from retainer.

- Door glass-to-retainer clearances A and B
Adjust so that clearances A and B are equal.
- Ensure door glass is not tilted.

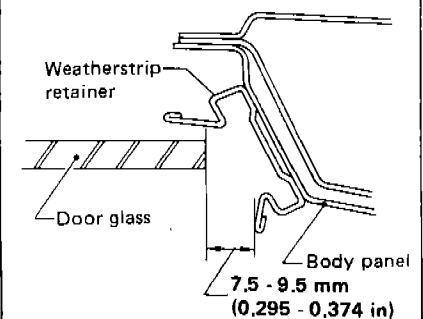


Glass portion 1

- Adjust to provide proper light surface contact of glass and retainer.



Glass portion 2

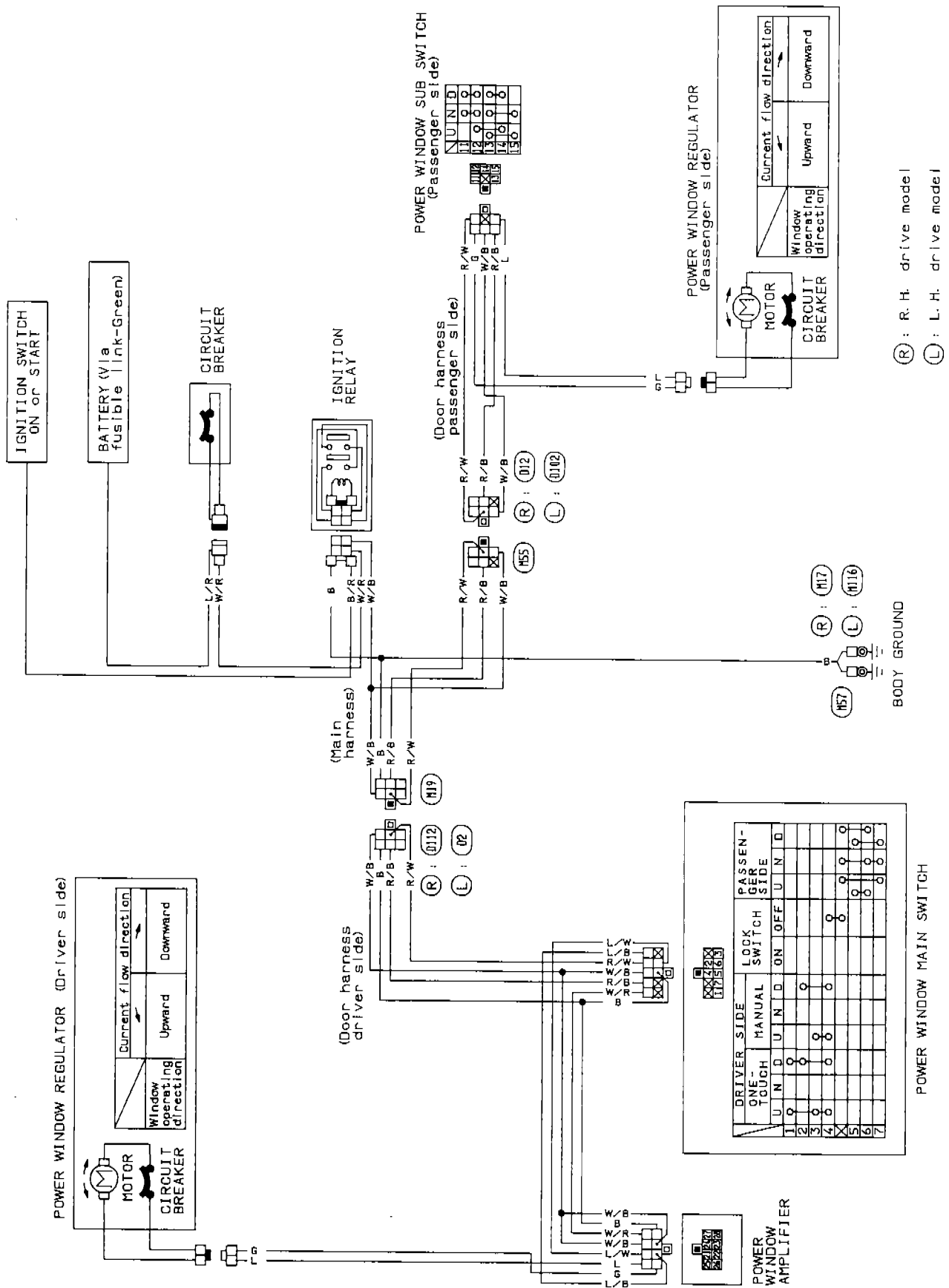


SBF177E

DOOR

Power Window

WIRING DIAGRAM



DOOR

Power Window (Cont'd)

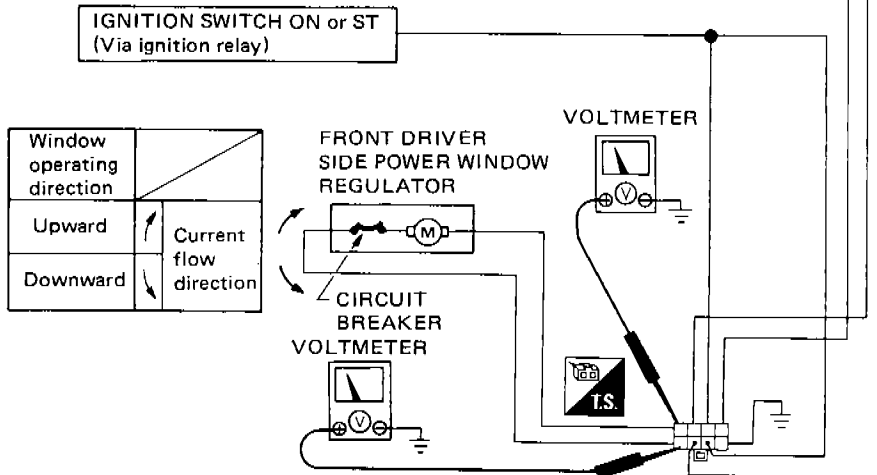
POWER WINDOW AMP. INSPECTION

POWER WINDOW TIMER RELAY SYSTEM

- When ignition switch ON or ST, this system is ON.

FRONT DRIVER SIDE POWER WINDOW SWITCH

FR Drive side		Manual		Connections	
One-touch (Auto)		U	N	D	
1	○	○	○	○	From power window AMP. ①
2	○	○	○	○	From power window AMP. ②
3	○	○	○	○	From power window AMP. ③
4	○	○	○	○	Ground



AMP. OPERATION

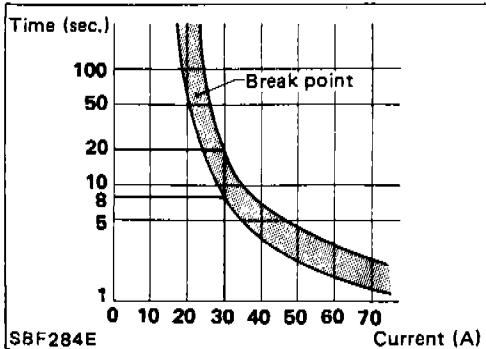
Connections		Operations							
		Manual operation				One-touch (Auto) Operation			
		12V	12V	12V	12V	12V	12V	12V	12V
51	Power source (IGN)	Ground	Ground	Ground	Ground	Ground	Ground	Ground	Ground
52	Ground	ON or ST	ON or ST	ON or ST	ON or ST	ON or ST	ON or ST	ON or ST	ON or ST
53	From ignition SW (ON or ST)	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF
54	To FR driver side power window SW (AUTO) ①	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF
55	To FR driver side power window SW (UP) ③	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
56	To FR driver side power window SW (DOWN) ②	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
57	FR driver side regulator (Upward power source)	Approx. 0V	Approx. over 9V	Approx. 0V	Approx. 0V	Approx. over 9V	Approx. over 9V	Approx. 0V	Approx. 0V
58	FR driver side regulator (Downward power source)	Approx. 0V	Approx. 0V	Approx. over 9V	Approx. 0V	Approx. 0V	Approx. 0V	Approx. over 9V	Approx. over 9V

Regulator Operating Condition	Stop	Upward operation	Downward operation	Stop	Starting	Keeping operation until fully closed, then stops automatically.	Starting	Keeping operation until fully open, then stops automatically.
					Upward operation		Downward operation	

Carry out this operation check in this chart from left to right continuously.

POWER WINDOW AMP. — Front driver side door (Behind door trim)

SBF392E



SBF284E

CIRCUIT BREAKER INSPECTION

For example, when current is 30A, the circuit is broken within 8 to 20 seconds.

This circuit breaker is also used in the power door lock system.

Power Door Lock

BATTERY (via fusible link-Green)

CIRCUIT BREAKER

(Main harness)

WIRING

(Sub-harness)

LEGEND:

- (L) : L. H. drive model
- (R) : R. H. drive model
- (M57) : BODY GROUND
- (M17) : (L) : (M16)
- (M19) : (R) : (M18)
- (M20) : (L) : (M19)
- (M21) : (R) : (M20)
- (M22) : (L) : (M21)
- (M23) : (R) : (M22)
- (M24) : (L) : (M23)
- (M25) : (R) : (M24)
- (M26) : (L) : (M25)
- (M27) : (R) : (M26)
- (M28) : (L) : (M27)
- (M29) : (R) : (M28)
- (M30) : (L) : (M29)
- (M31) : (R) : (M30)
- (M32) : (L) : (M31)
- (M33) : (R) : (M32)
- (M34) : (L) : (M33)
- (M35) : (R) : (M34)
- (M36) : (L) : (M35)
- (M37) : (R) : (M36)
- (M38) : (L) : (M37)
- (M39) : (R) : (M38)
- (M40) : (L) : (M39)
- (M41) : (R) : (M40)
- (M42) : (L) : (M41)
- (M43) : (R) : (M42)
- (M44) : (L) : (M43)
- (M45) : (R) : (M44)
- (M46) : (L) : (M45)
- (M47) : (R) : (M46)
- (M48) : (L) : (M47)
- (M49) : (R) : (M48)
- (M50) : (L) : (M49)
- (M51) : (R) : (M50)
- (M52) : (L) : (M51)
- (M53) : (R) : (M52)
- (M54) : (L) : (M53)
- (M55) : (R) : (M54)
- (M56) : (L) : (M55)
- (M57) : (R) : (M56)
- (M58) : (L) : (M57)
- (M59) : (R) : (M58)
- (M60) : (L) : (M59)
- (M61) : (R) : (M60)
- (M62) : (L) : (M61)
- (M63) : (R) : (M62)
- (M64) : (L) : (M63)
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- (M66) : (L) : (M65)
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- (M94) : (L) : (M93)
- (M95) : (R) : (M94)
- (M96) : (L) : (M95)
- (M97) : (R) : (M96)
- (M98) : (L) : (M97)
- (M99) : (R) : (M98)
- (M100) : (L) : (M99)

DOOR LOCK TIMER (Front R. H. dash side)

DOOR LOCK ACTUATOR (Passenger side door lock actuator)

DOOR LOCK SWITCH (Driver side door switch)

Ⓐ: L. H. drive model
Ⓑ: R. H. drive model

DOOR LOCK TIMER
(Front R. H. dash slide)

SBF432E

DOOR

Power Door Lock (Cont'd)

DOOR LOCK TIMER INSPECTION

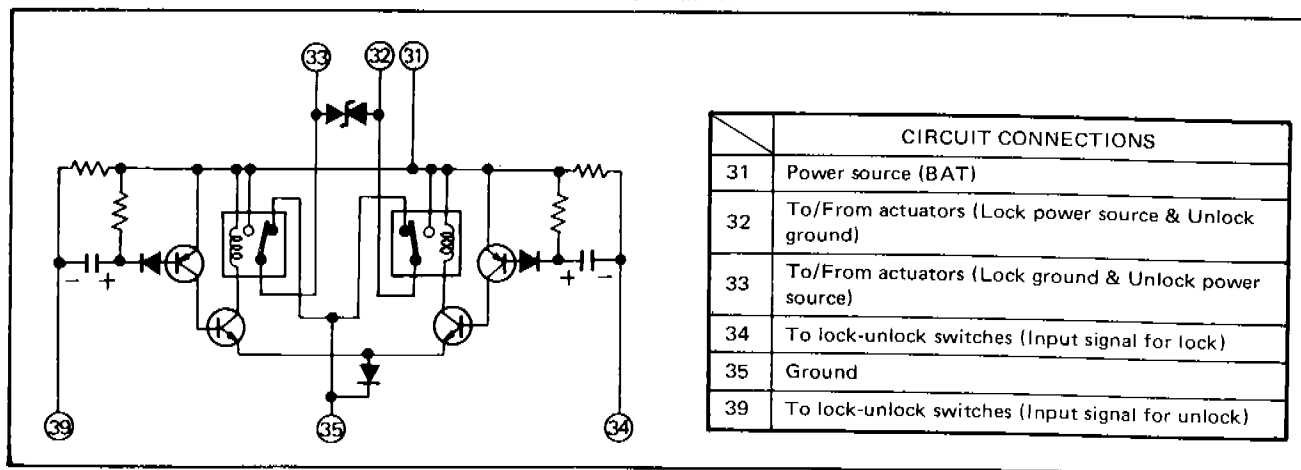
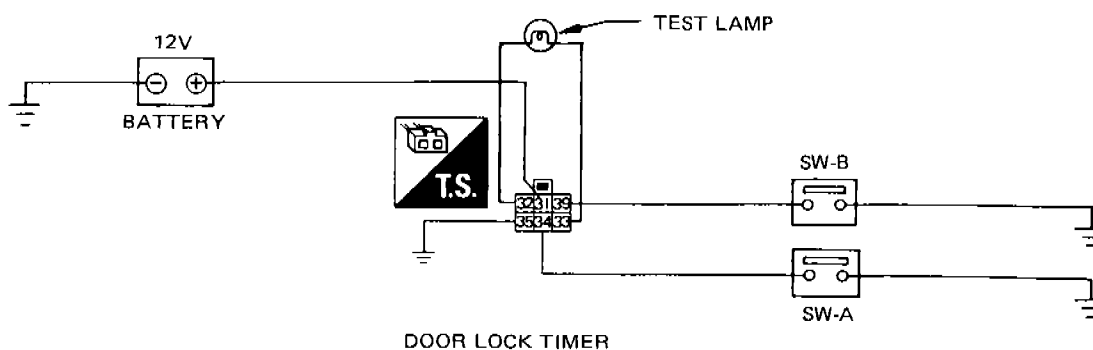
TESTING OPERATION

Input signal	SW-A operation	OFF	Turns ON	ON	Turns OFF	OFF	OFF	OFF	Turns ON	Turns OFF
	SW-B operation	OFF	OFF	OFF	OFF	Turns ON	ON	Turns OFF	After SW-A operation, immediately turns ON	Turns OFF
Output signal	Test lamp operation	OFF	ON (Approx. 1.0 sec.) → OFF	OFF	OFF	ON (Approx. 1.0 sec.) → OFF	OFF	OFF	ON → OFF → ON → OFF	OFF

- Carry out the complete inspection in this chart from left to right.
- Do not carry out any switch operations that are not described in the above chart so as to avoid breaking the door lock timer.

Lighting period of test lamp differs according to SW-B operation. Moreover, test lamp may come on once or it may not come on at all. If this occurs, do not judge it faulty solely from this step.

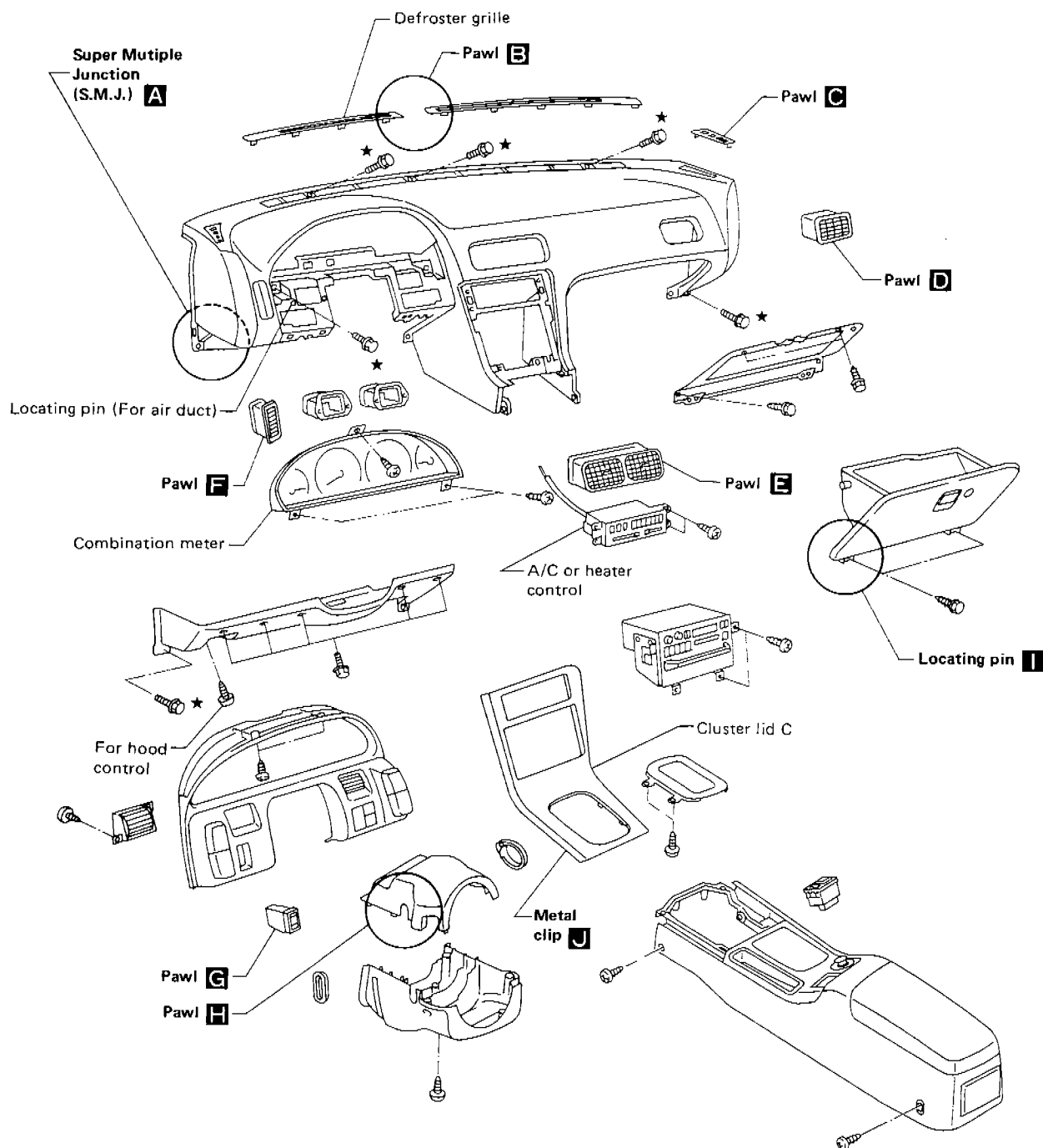
INSPECTION CIRCUIT (This test circuit must be wired by the technician.)



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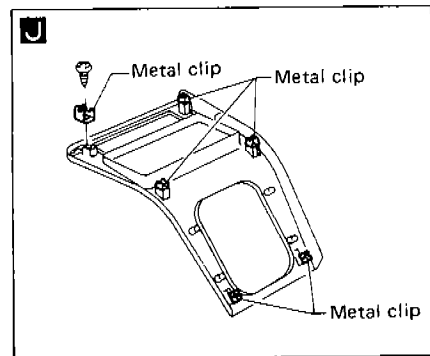
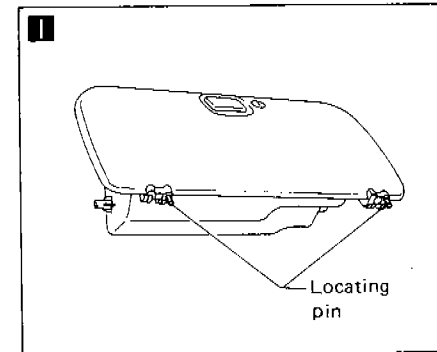
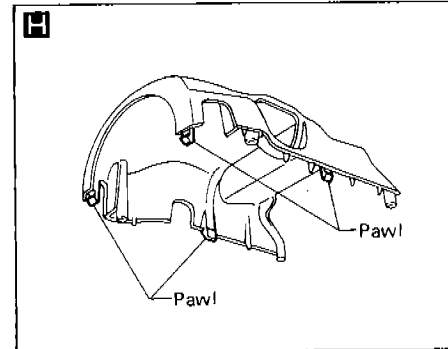
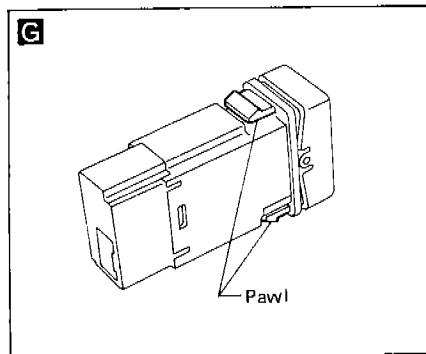
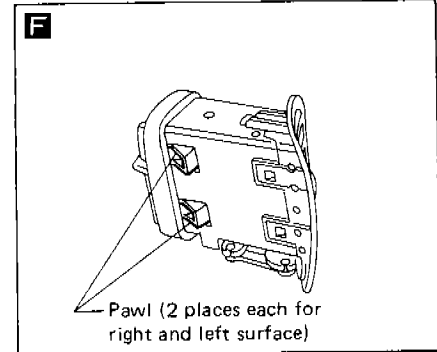
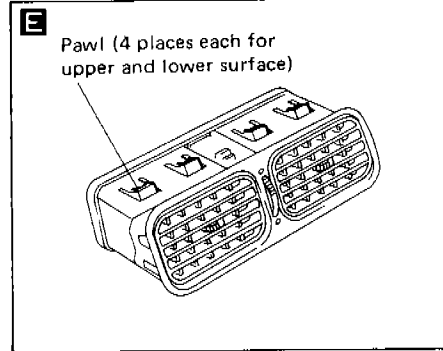
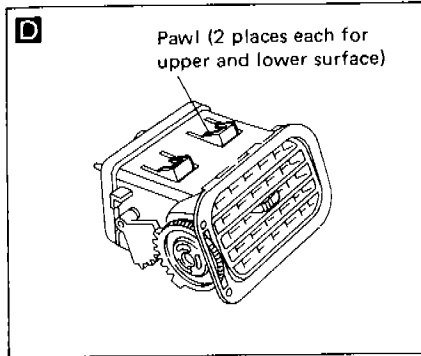
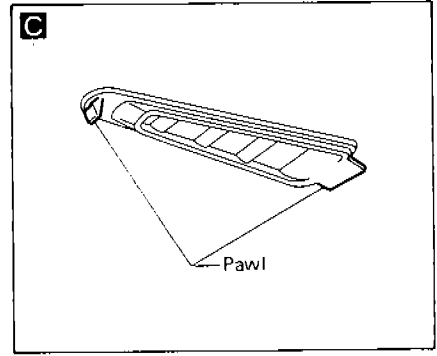
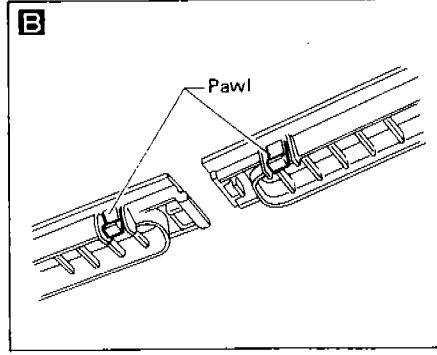
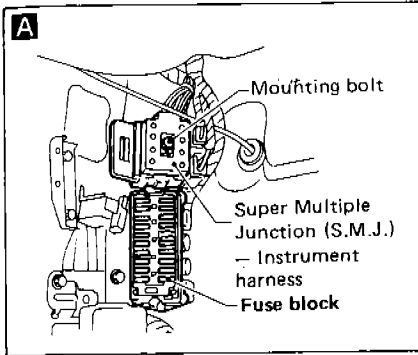
INSTRUMENT PANEL

- When removing instrument panel assembly, remove defroster grille, combination meter, A/C or heater control, cluster lid C and S.M.J. first.



★ : Instrument panel assembly mounting bolts

INSTRUMENT PANEL

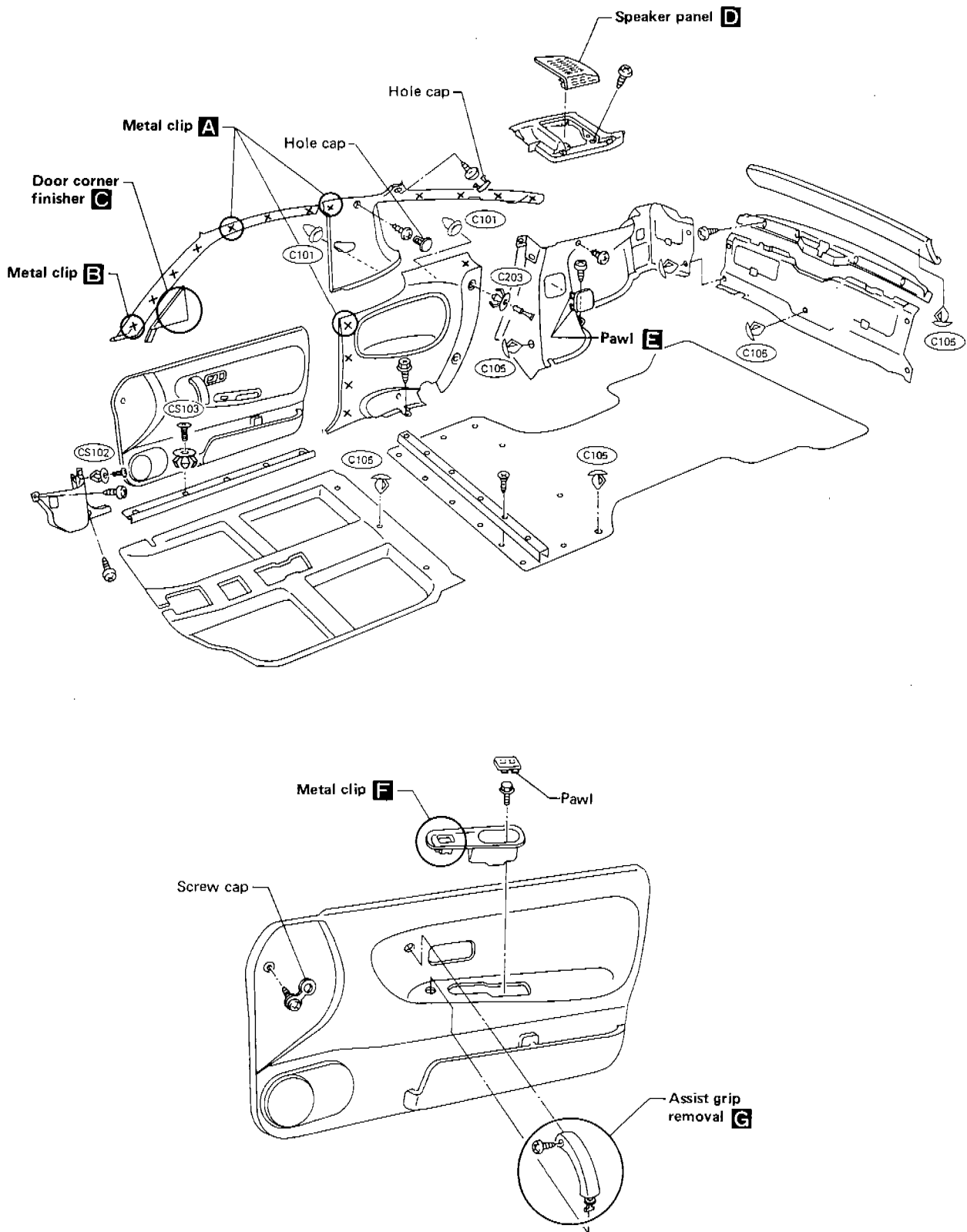


SBF178E

INTERIOR AND EXTERIOR

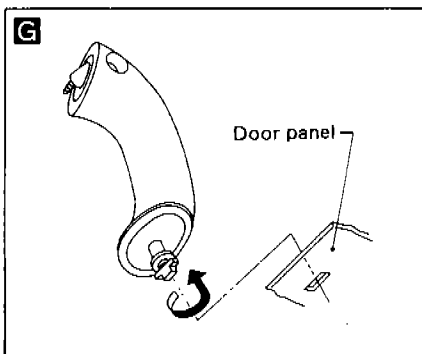
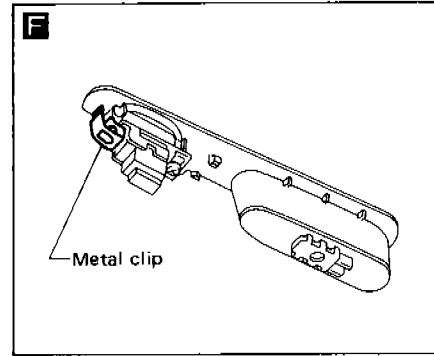
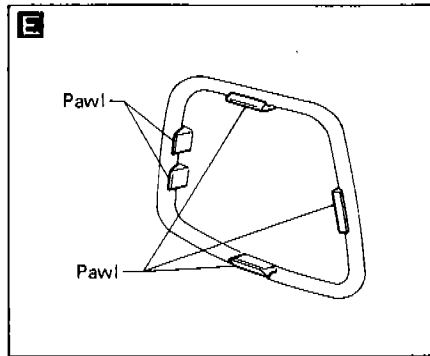
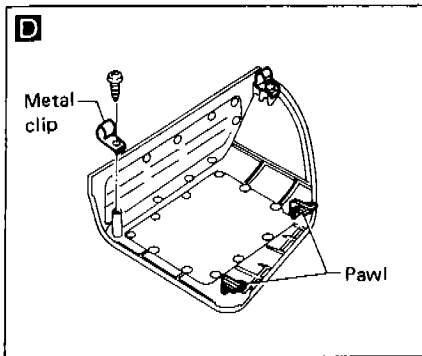
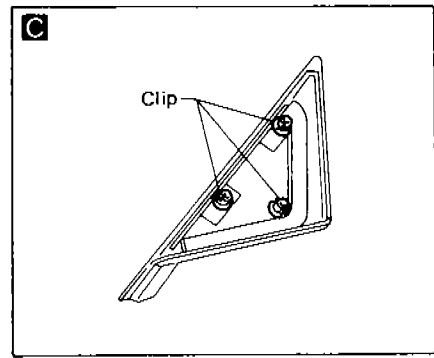
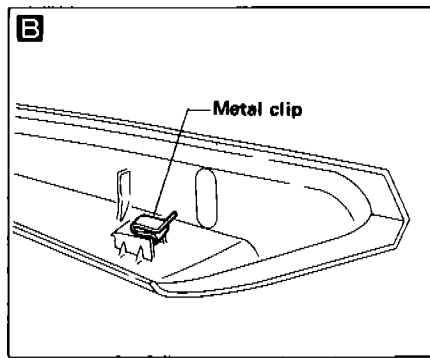
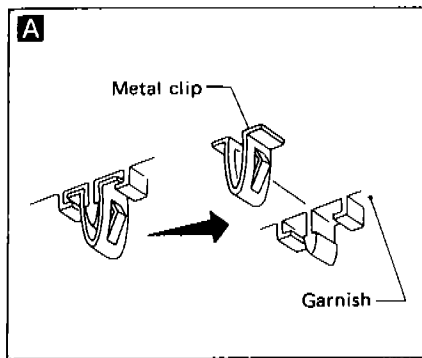
Interior

SIDE, LUGGAGE AND FLOOR TRIM



INTERIOR AND EXTERIOR

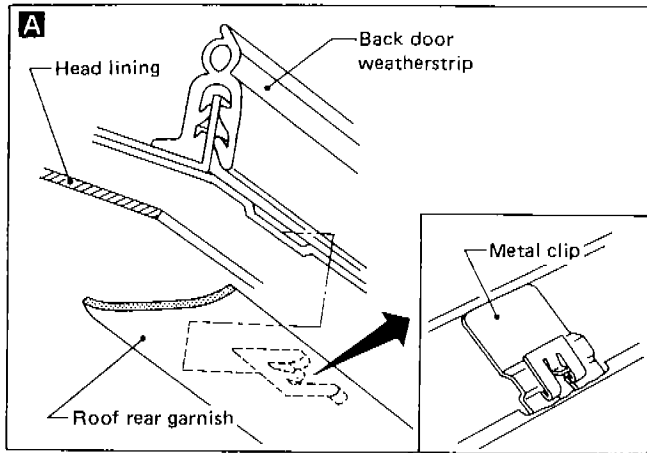
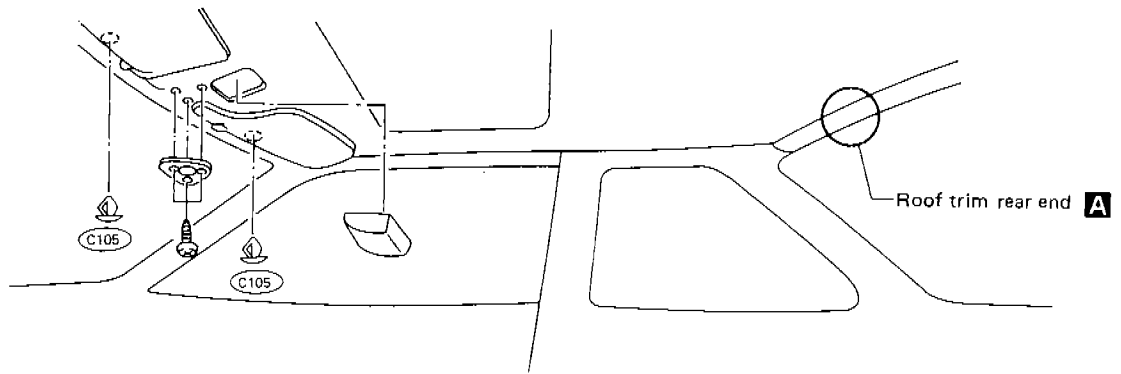
Interior (Cont'd)



INTERIOR AND EXTERIOR

Interior (Cont'd)

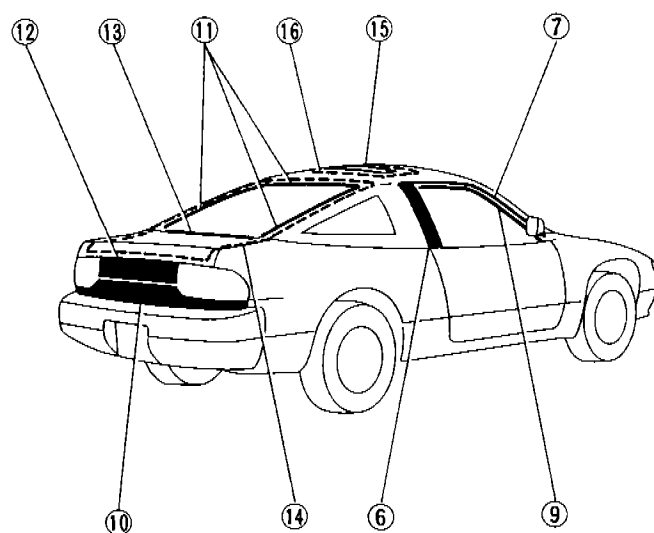
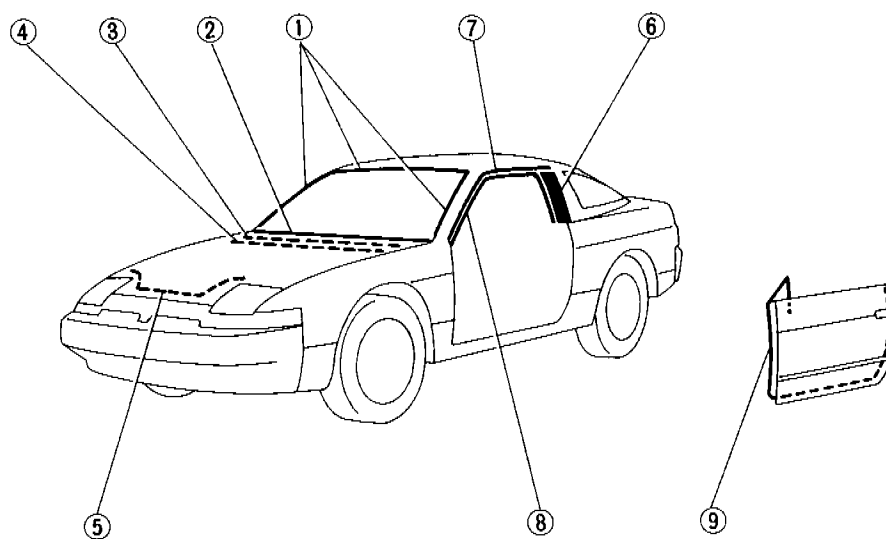
ROOF TRIM



SBF387E

INTERIOR AND EXTERIOR

Exterior



SBF388E

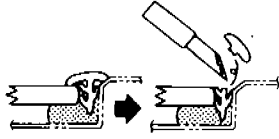
INTERIOR AND EXTERIOR

Exterior (Cont'd)

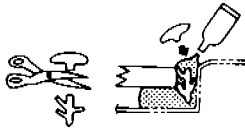
① Windshield upper and side molding

Method 1

Cut off top portion of molding and clean glass and panel surfaces.



Apply sealant to top portion of molding.



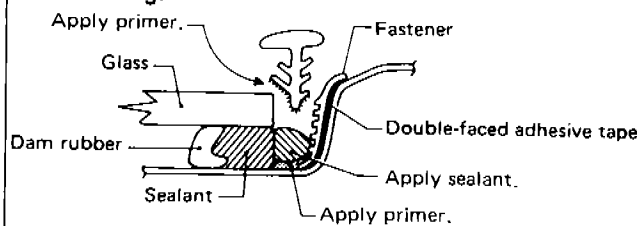
Cut off lower portion of new molding.



Finish well to give it a good appearance.

Method 2

1. Cut off sealant at glass end.
2. Clean the side on which panel was mounted.
3. Set molding fastener and apply sealant & primer to body panel, and apply primer to molding.



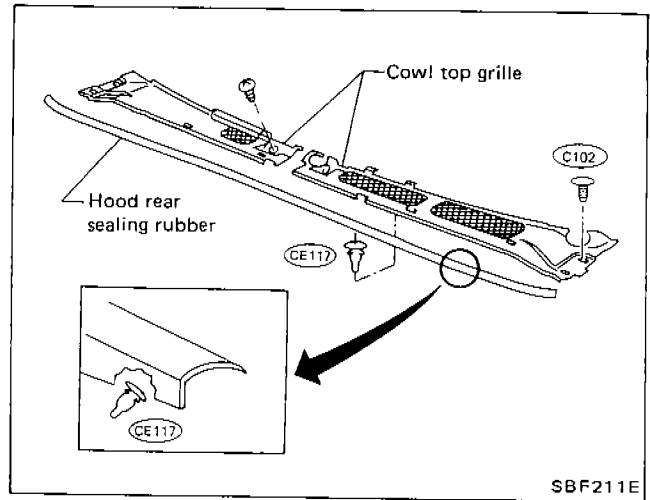
4. Install molding by aligning the molding mark located on center with vehicle center. Be sure to install tightly so that there is no gap around the corner.

SBF519B

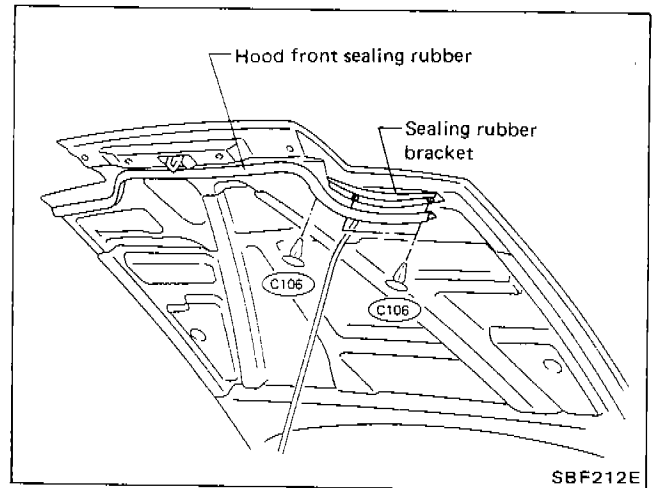
② Windshield lower molding

It is mounted with screws.

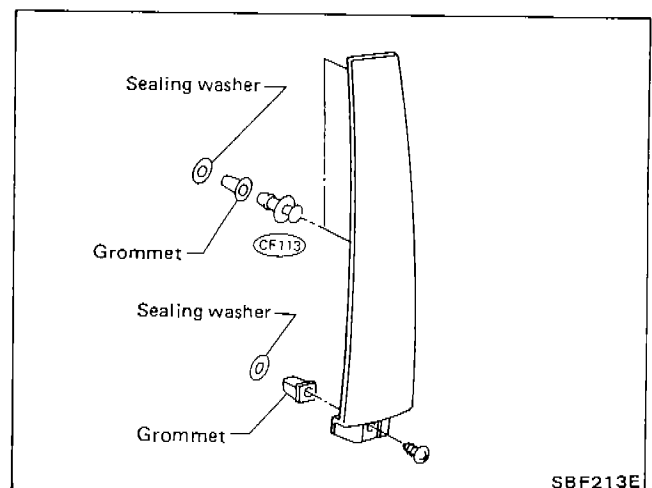
③, ④ Cowl top grille and hood rear sealing rubber



⑤ Hood front sealing rubber



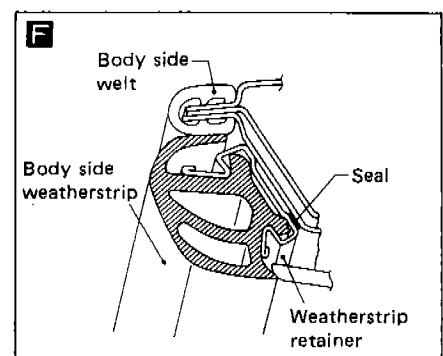
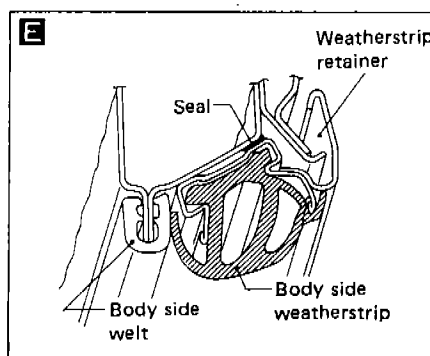
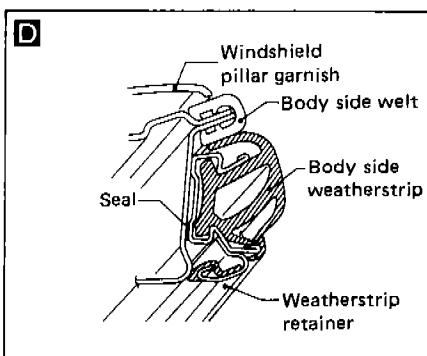
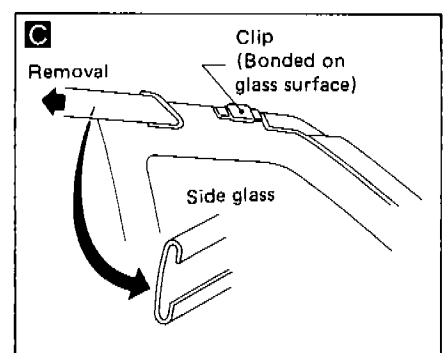
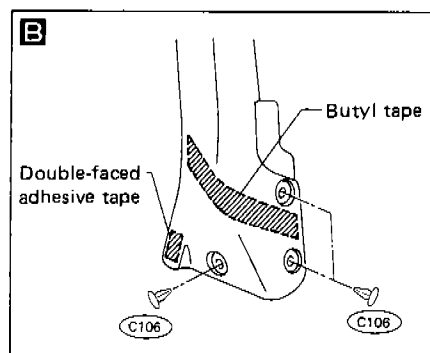
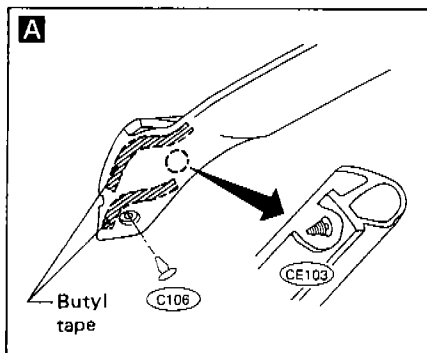
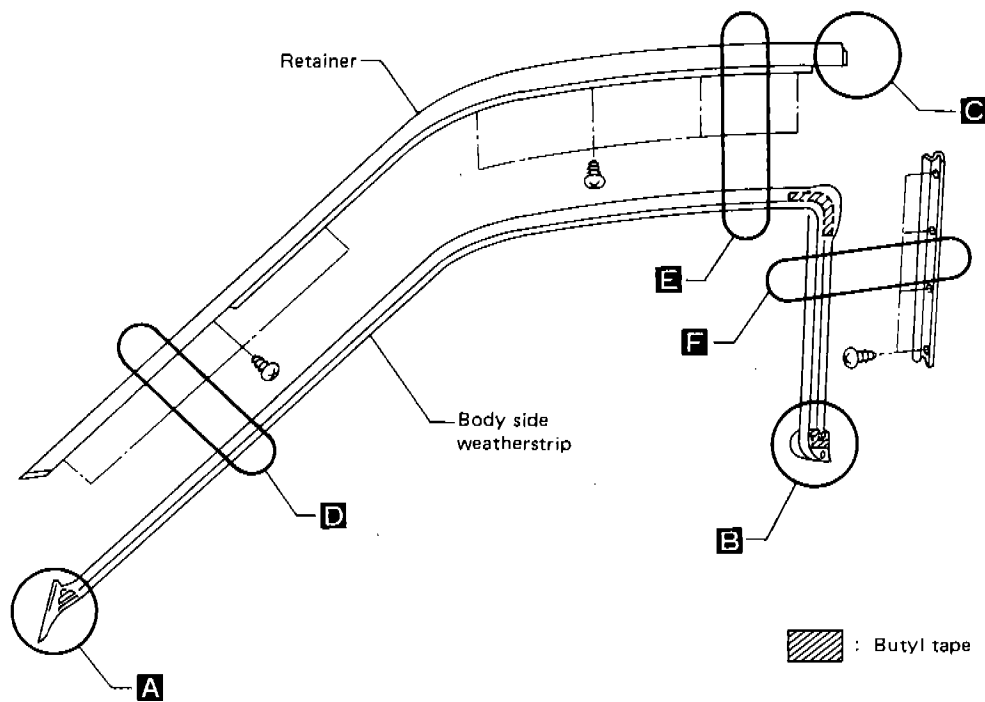
⑥ Center pillar finisher



INTERIOR AND EXTERIOR

Exterior (Cont'd)

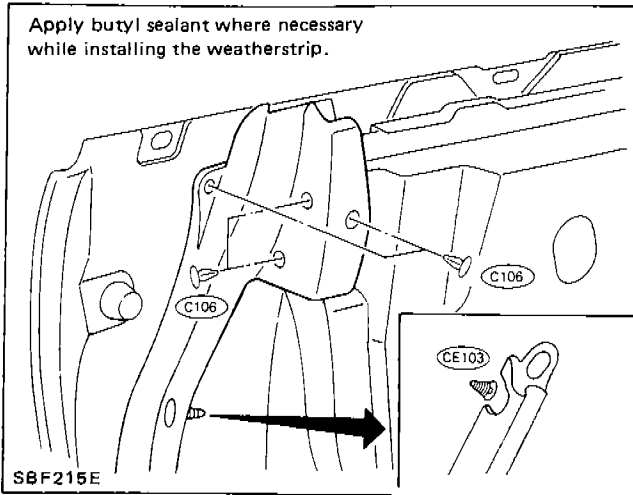
⑦, ⑧ Body side weatherstrip and weatherstrip retainer



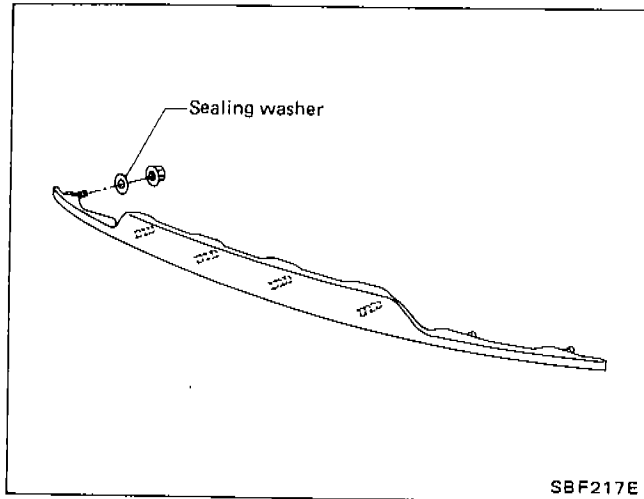
INTERIOR AND EXTERIOR

Exterior (Cont'd)

⑨ Door weatherstrip



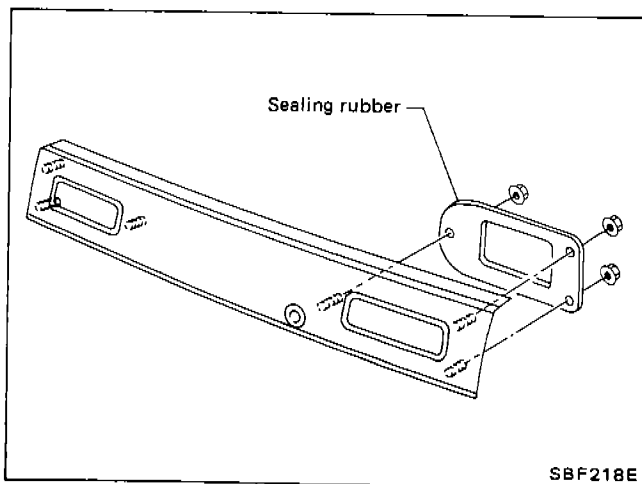
⑩ Rear sight shield



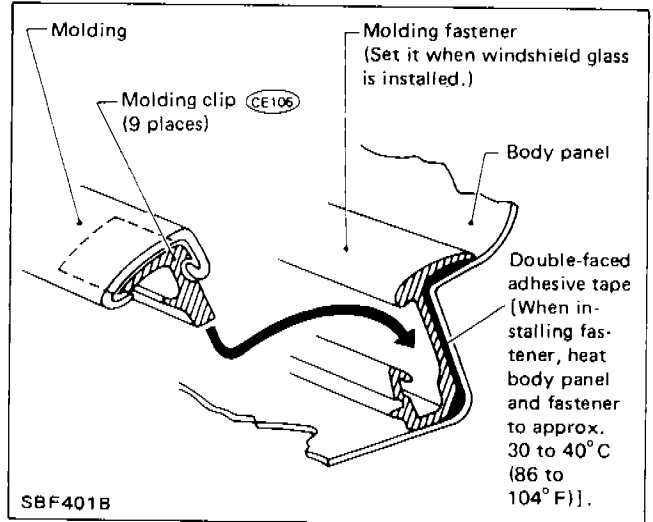
⑪ Back door window upper and side molding

Bonded on back door glass side.

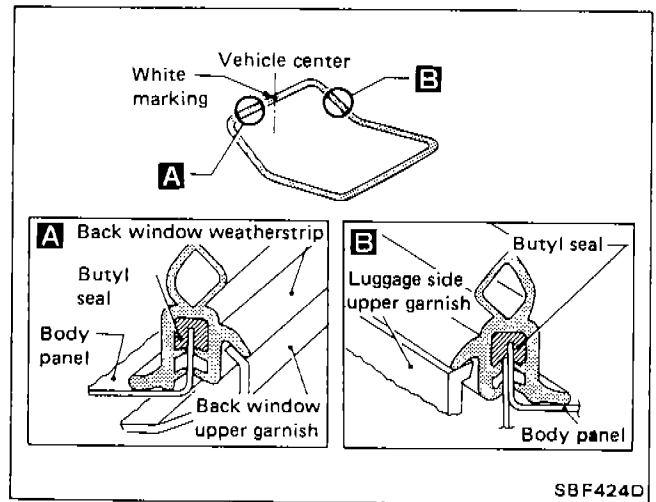
⑫ Rear panel finisher



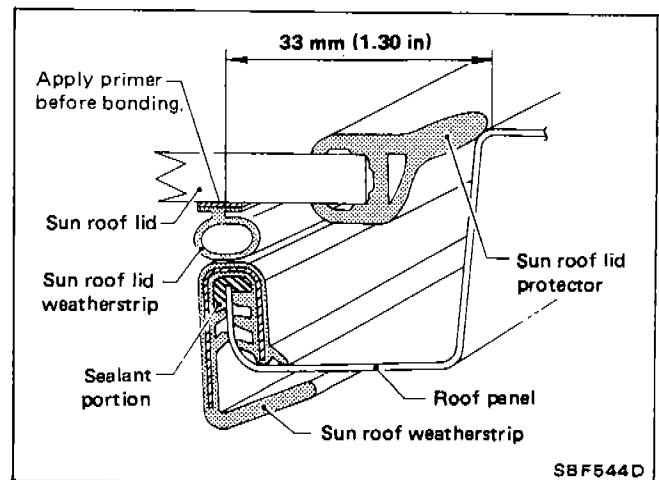
⑬ Back door window lower molding



⑭ Back door weatherstrip

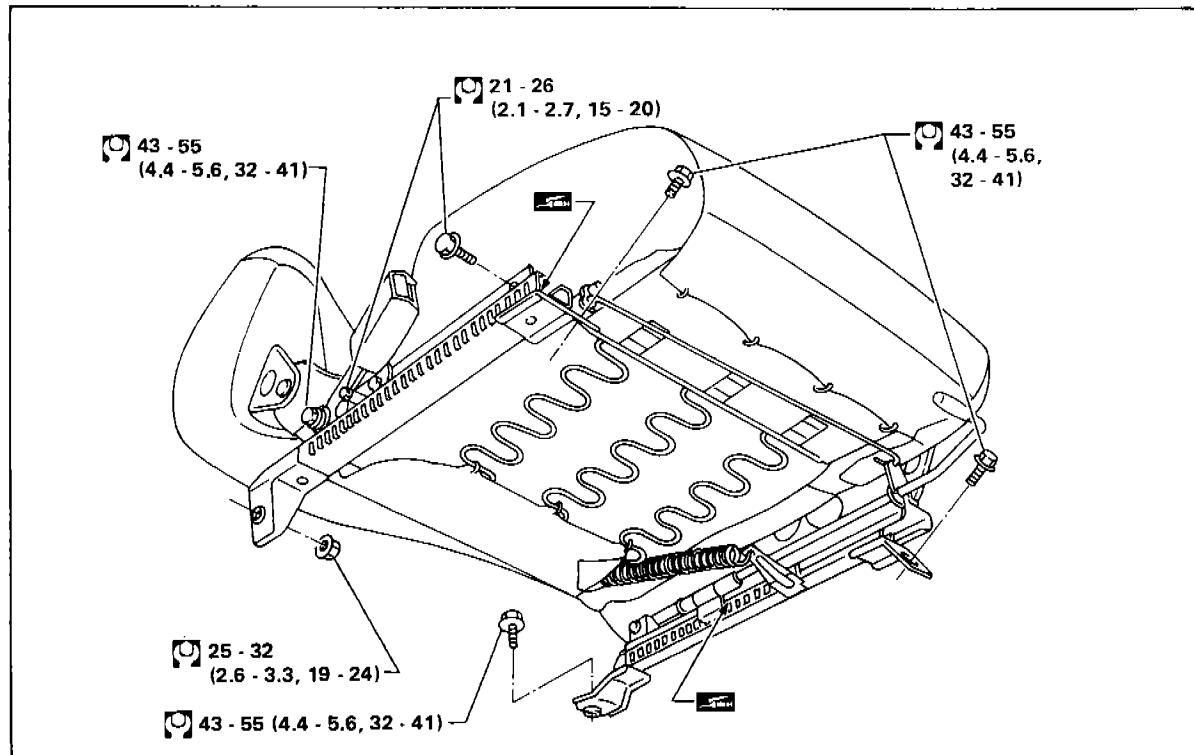
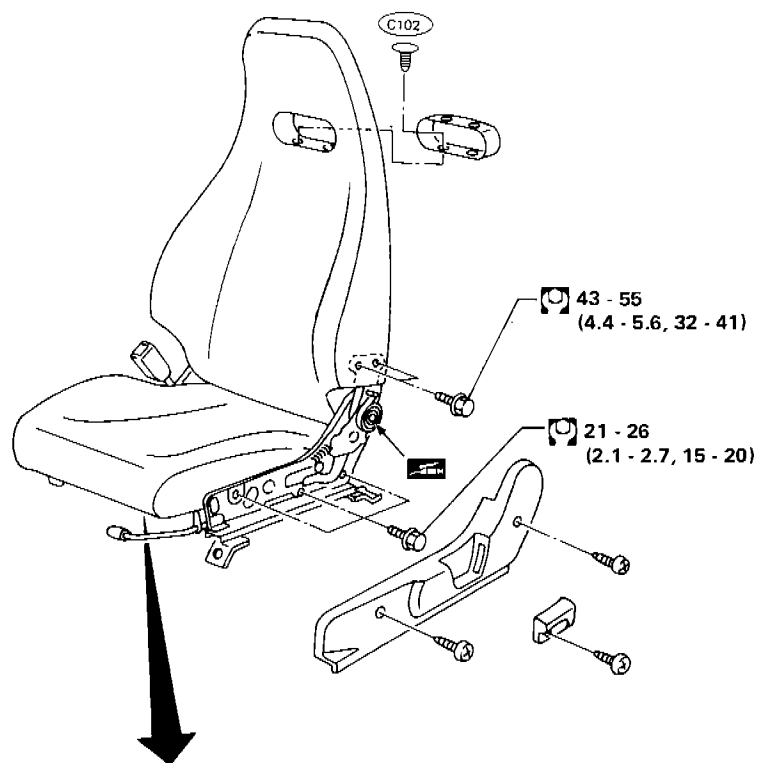


⑮ ⑯ Sun roof weatherstrip & lid weatherstrip



SEAT

Front Seat



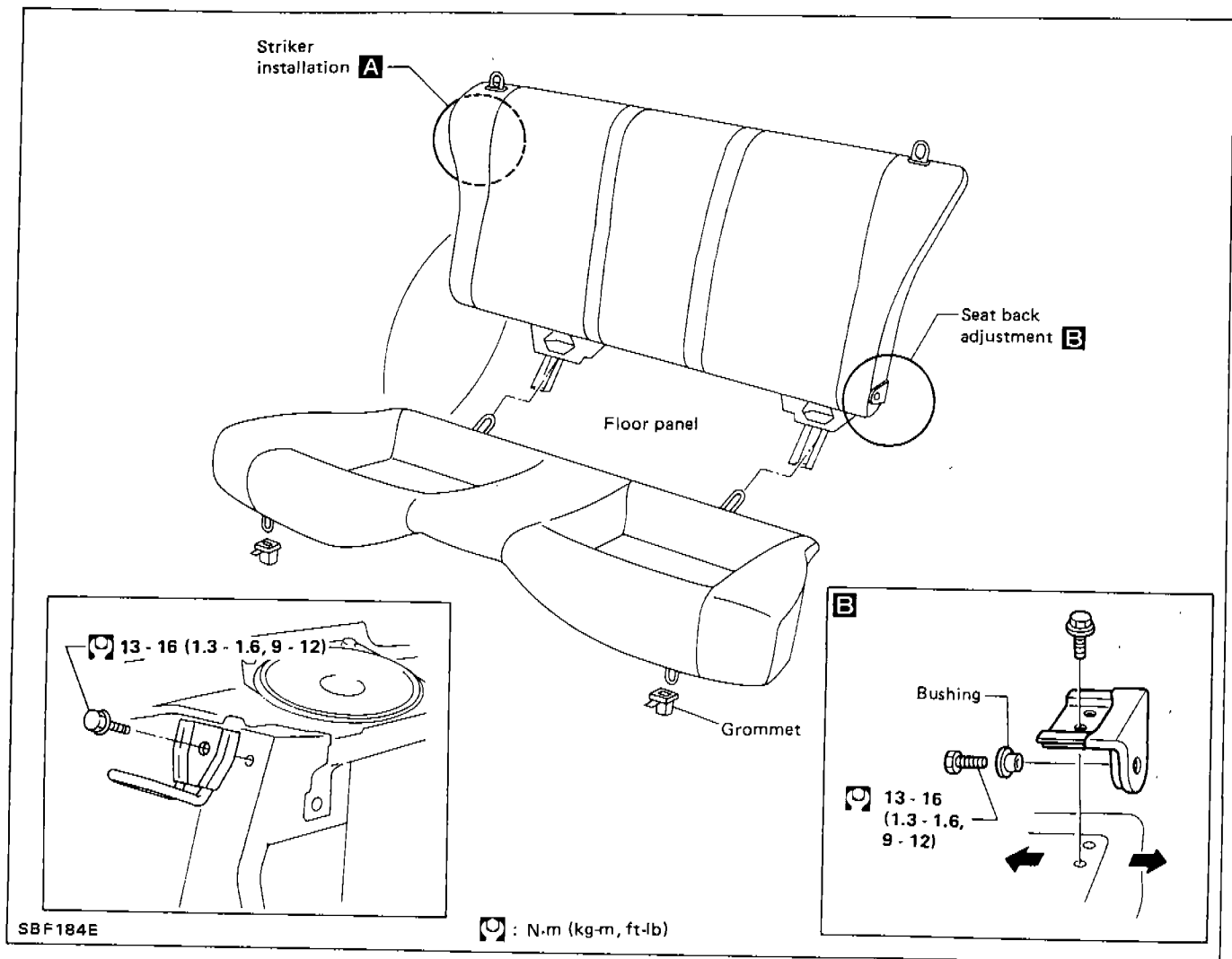
 : N-m (kg-m, ft-lb)

SBF183E

BF-25

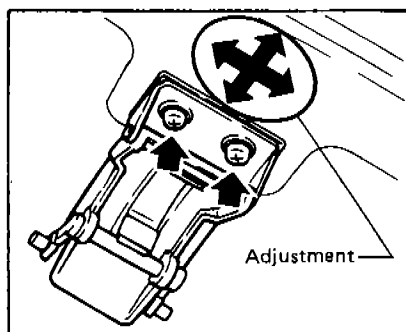
SEAT

Rear Seat

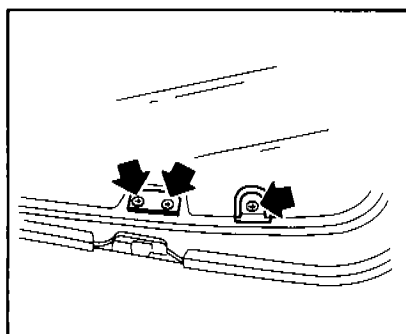


SUN ROOF

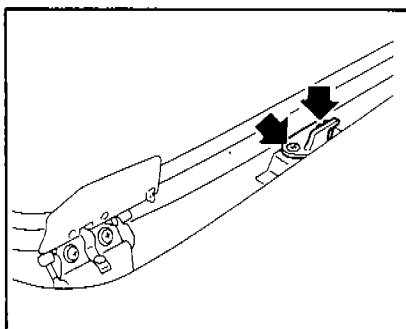
Handle adjustment



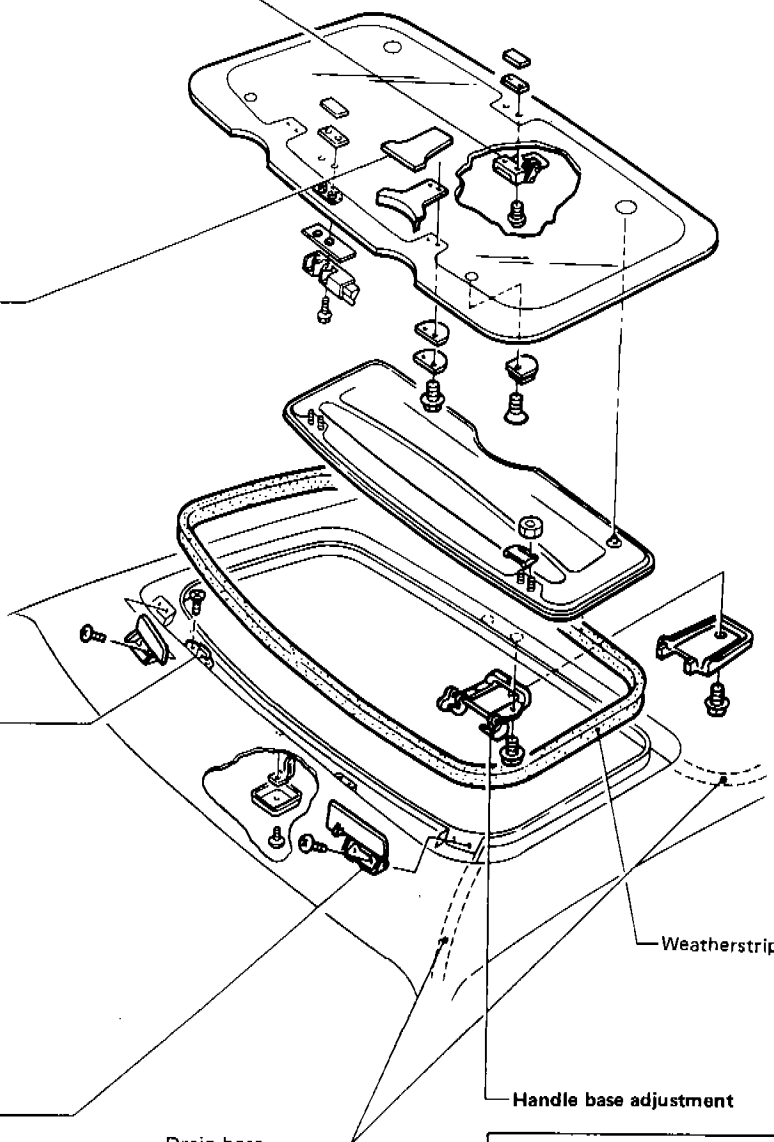
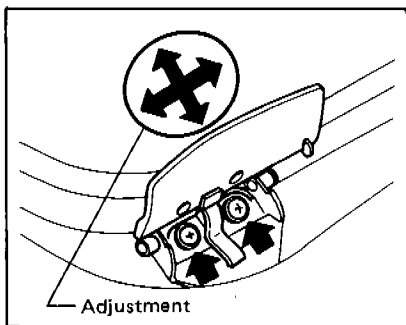
Female hinge



Hinge bracket

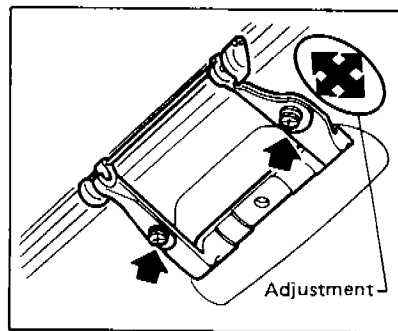


Air deflector adjustment



Drain hose

- After installation of drain hoses, make sure water drains smoothly.

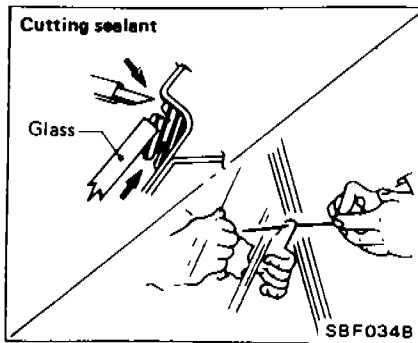


SBF186E

Windshield

REMOVAL

After removing moldings, remove glass.



CAUTION:

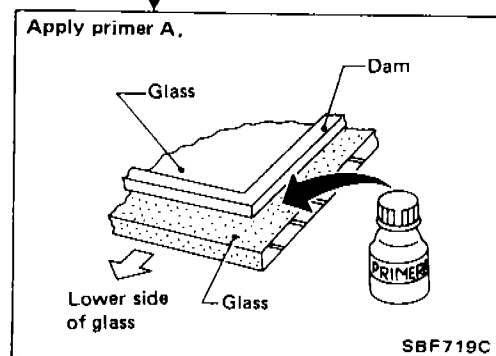
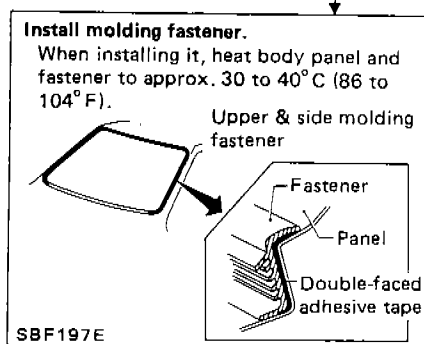
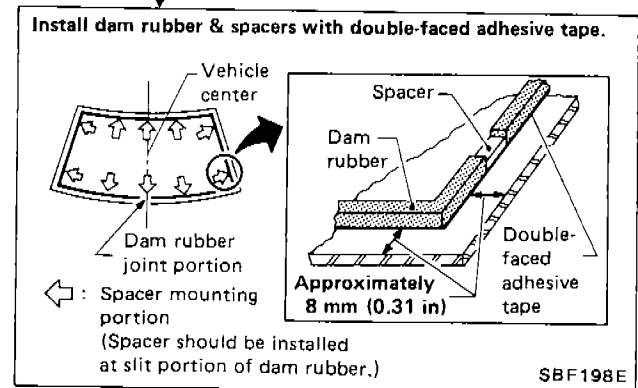
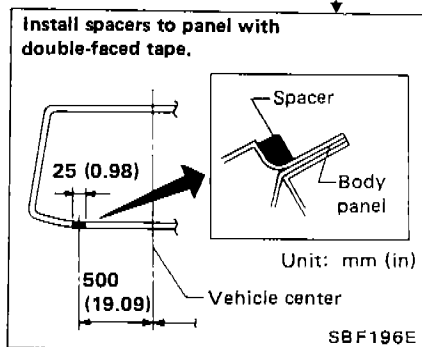
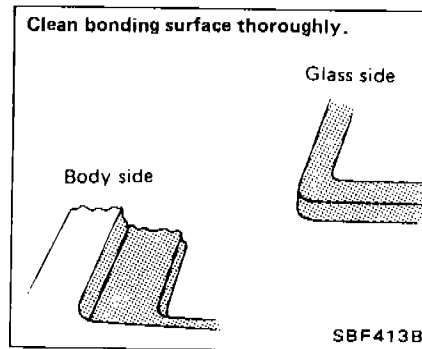
Be careful not to scratch glass when removing.

INSTALLATION

- Use genuine Nissan Sealant kit or equivalent. Follow instructions furnished with it.
- After installation, the vehicle should remain stationary for about 24 hours.
- Do not use sealant which is more than 12 months past its production date.
- Do not leave cartridge unattended with its cap open.
- Keep primers and sealant in a cool, dry place. Nissan recommends that they are stored in a refrigerator.
- Be sure to install moldings.

WARNING:

Keep heat or open flames away as primers are flammable.

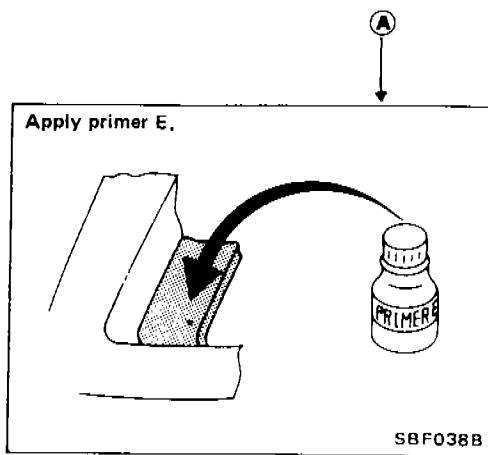


CAUTION:

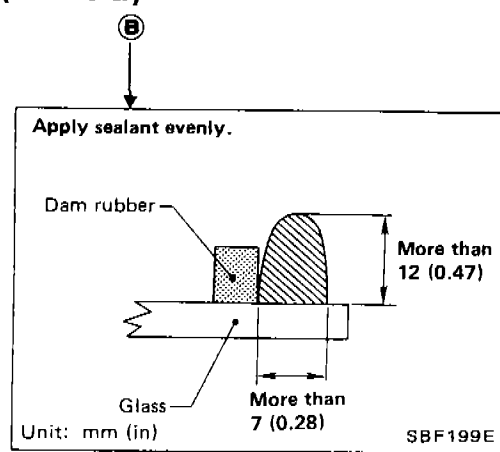
Allow primers to dry for 10 to 15 minutes before proceeding to the next step.

WINDSHIELD AND WINDOWS

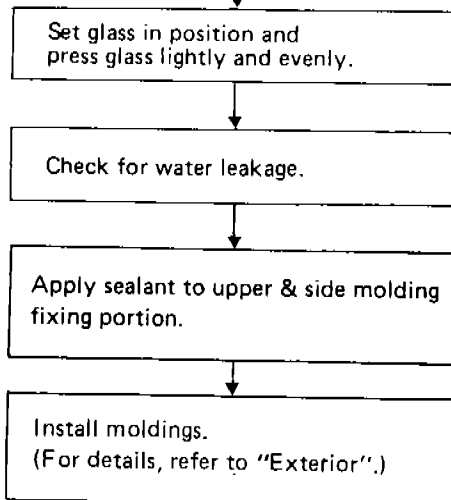
Windshield (Cont'd)



CAUTION:
Allow primers to dry for 10 to 15 minutes before proceeding to the next step.



CAUTION:
Windshield glass should be installed within 15 minutes of applying sealant: sealant starts to harden 15 minutes after it is applied.



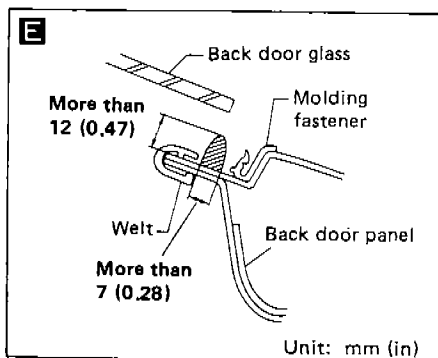
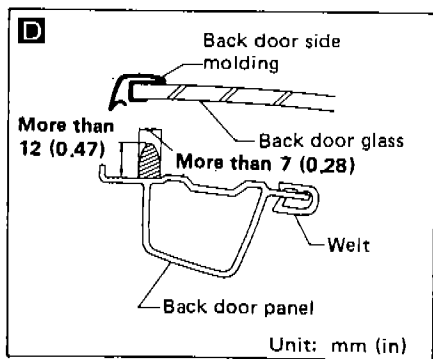
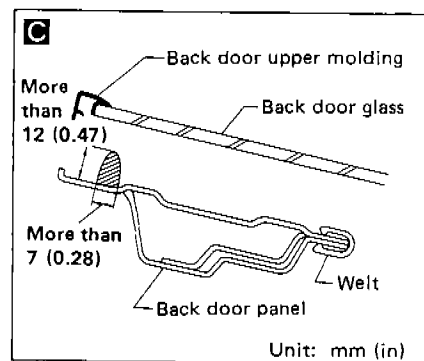
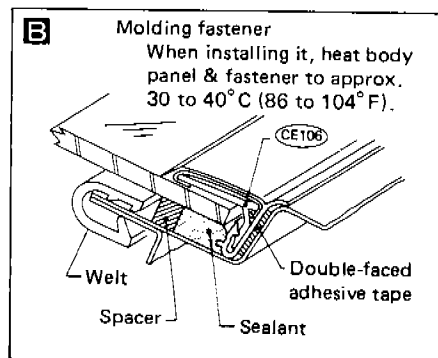
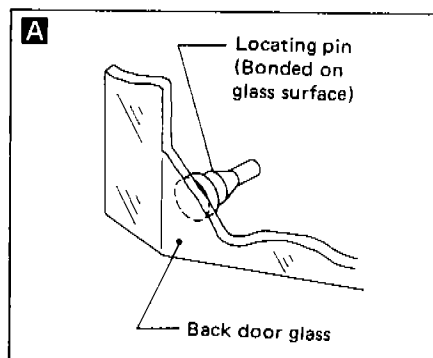
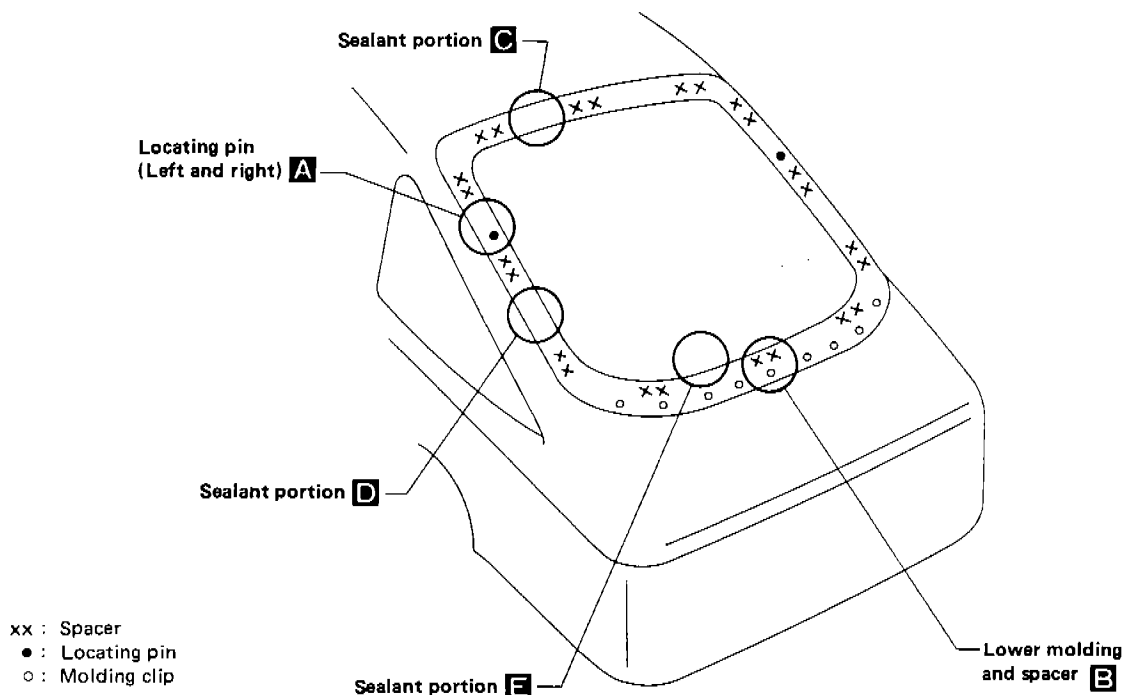
CAUTION:
For sealant drying time, refer to "Drying Time for Sealant".

CAUTION:
Molding must be installed securely so that it is in position and leaves no gap.

WINDSHIELD AND WINDOWS

Back Door Window

- Construction and removal/reinstallation method of back door window are basically the same as those of windshield.
- Major differences are that sealant & dam rubber are installed to back door panel instead of glass surface. Spacer position is also changed. Moreover, there are locating pins in lower portion of glass. For details, refer to following figure.
- For sealant drying period, refer to "Drying Time for Sealant".
- For details of moldings, refer to "Exterior".



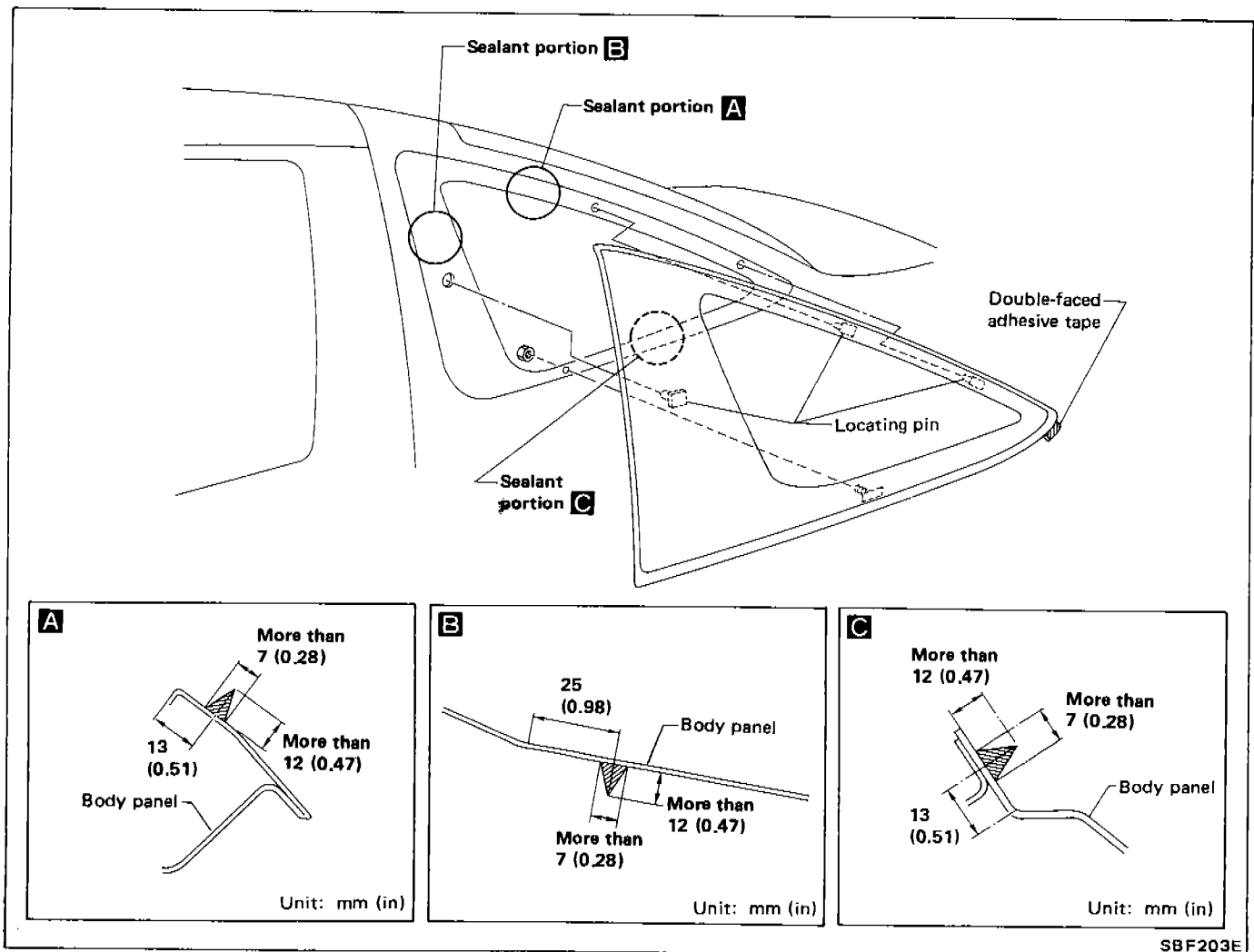
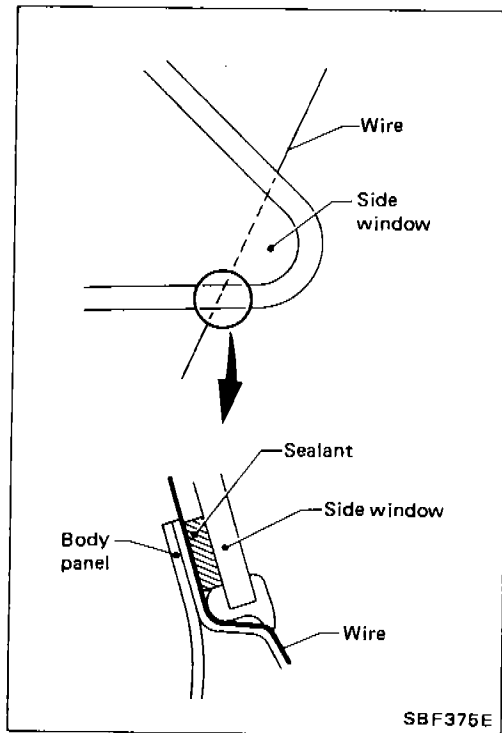
SBF201E

WINDSHIELD AND WINDOWS

Side Window

Side window is a molded type. During removal or installation, observe the following instructions.

1. Cut sealant in the same manner as that outlined under "Windshield."
2. Be careful not to scratch molding when cutting sealant. If molding is scratched, repair.
3. Remove clips and locating pins which have been exposed from vehicle body.



WINDSHIELD AND WINDOWS

Drying Time for Sealant

Reference: Time required for sealant to dry to desired hardness.

		Unit: days		
Temperature °C (°F)	Relative humidity %	90	50	25
40 (104)		1.5	2.5	5.0
25 (77)		2.5	4.0	7.5
5 (41)		5.0	13.0	20.5

CAUTION:

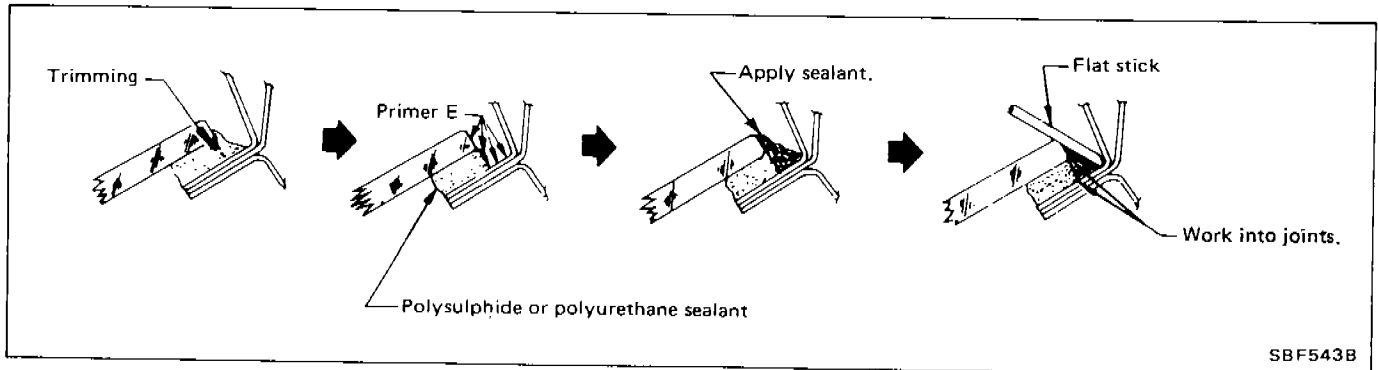
Advise the user of the fact that vehicle should not be driven on rough roads or surfaces until sealant has properly vulcanized.

Repairing Water Leaks for Windshield and Back Door Window

Leaks can be repaired without removing and reinstalling glass.

If water is leaking between caulking material and body or between glass and caulking material, determine the extent of the leak by applying water while pushing glass outward.

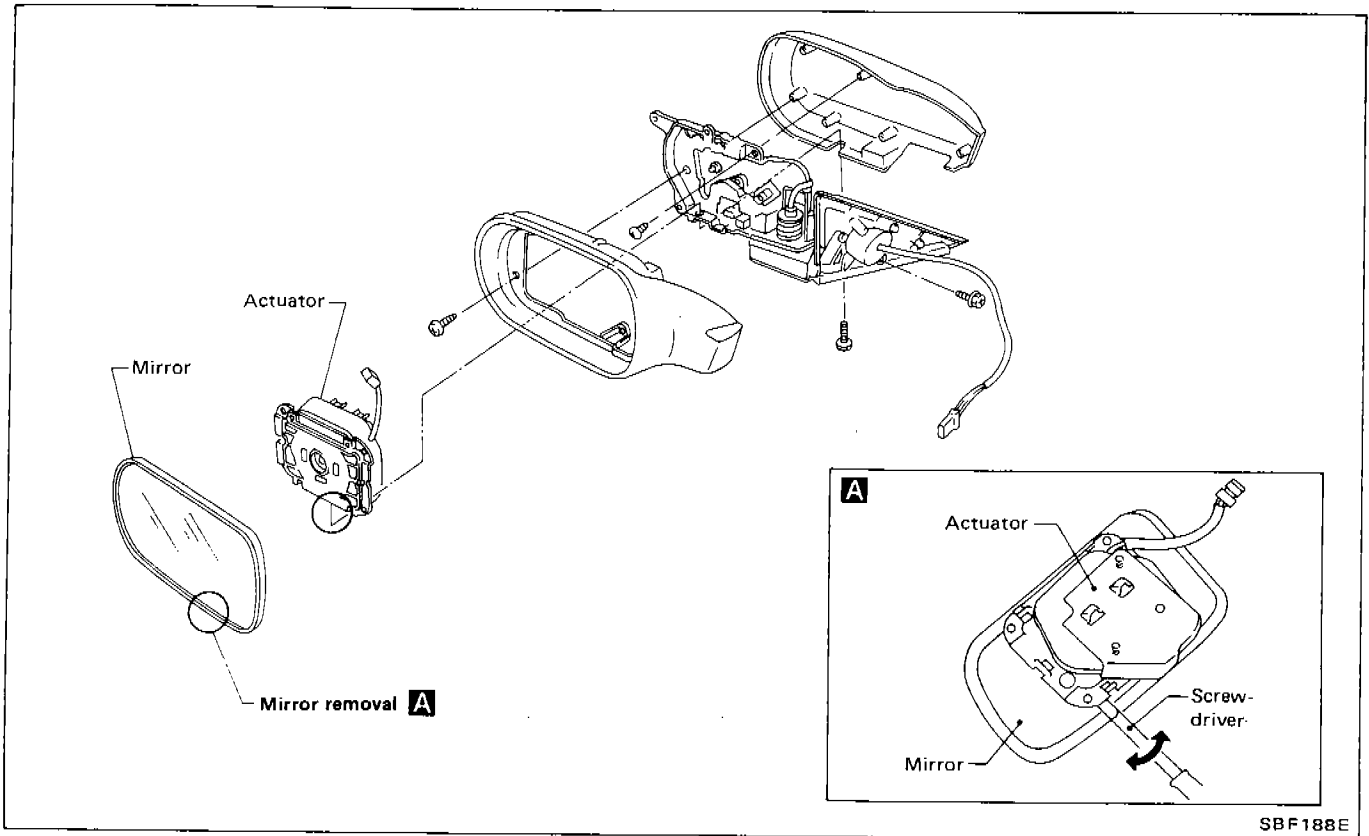
To stop the leak, apply primer and then sealant to the leak point.



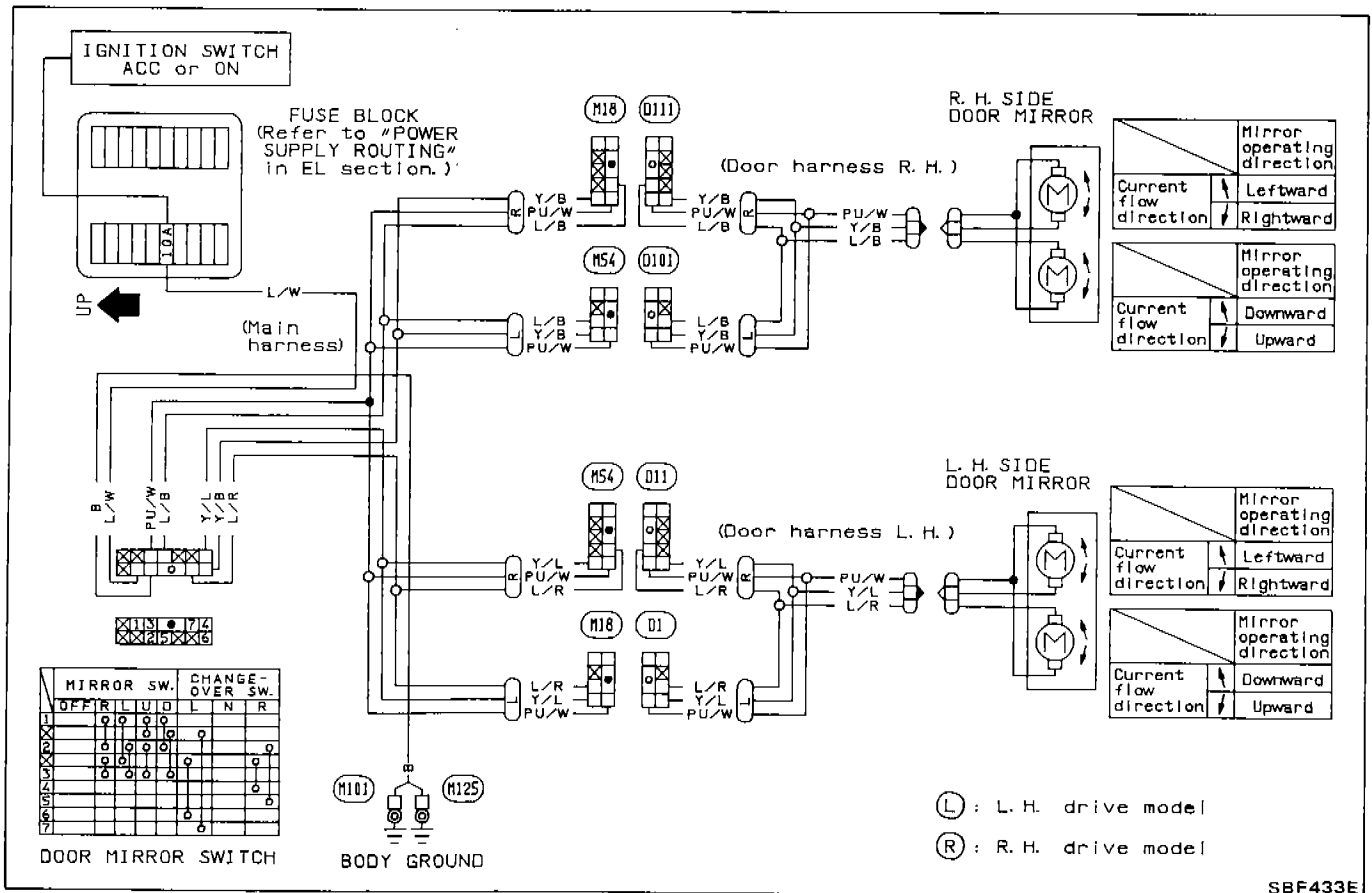
Afterwards, install molding securely.

MIRROR

Door Mirror

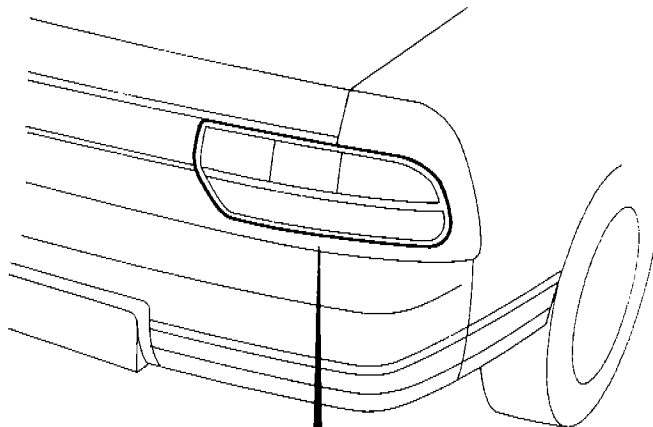


WIRING DIAGRAM

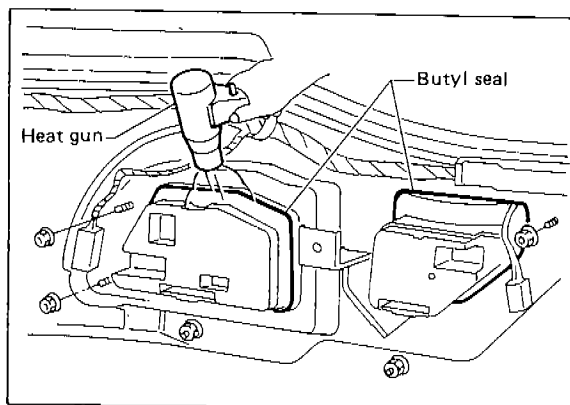


REAR COMBINATION LAMP

- Rear combination lamps are installed with nuts and butyl sealant.

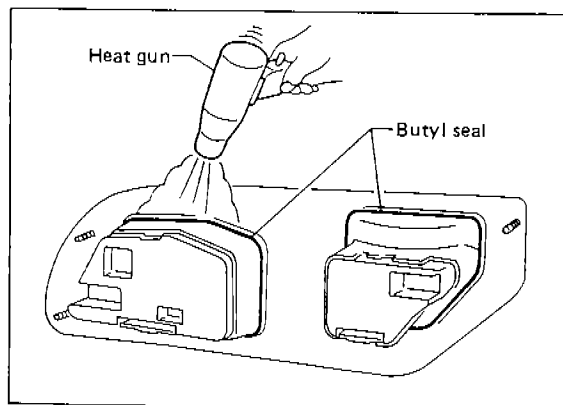


Removal



- Warm up lamp assembly area to a temperature of a little below 60°C (140°F).

Installation



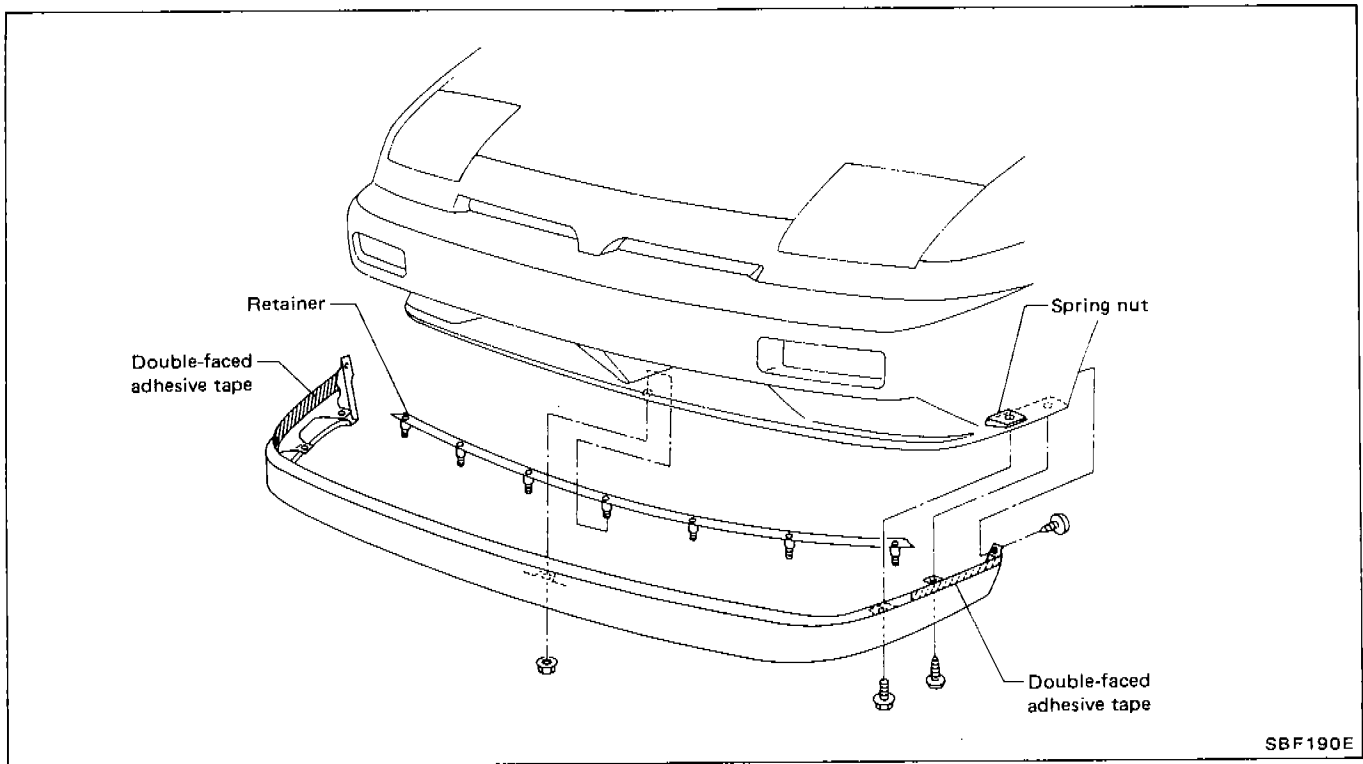
- Apply butyl seal evenly as it tends to become thin in the corners.
- Warm up lamp assembly area to a temperature of a little below 60°C (140°F).

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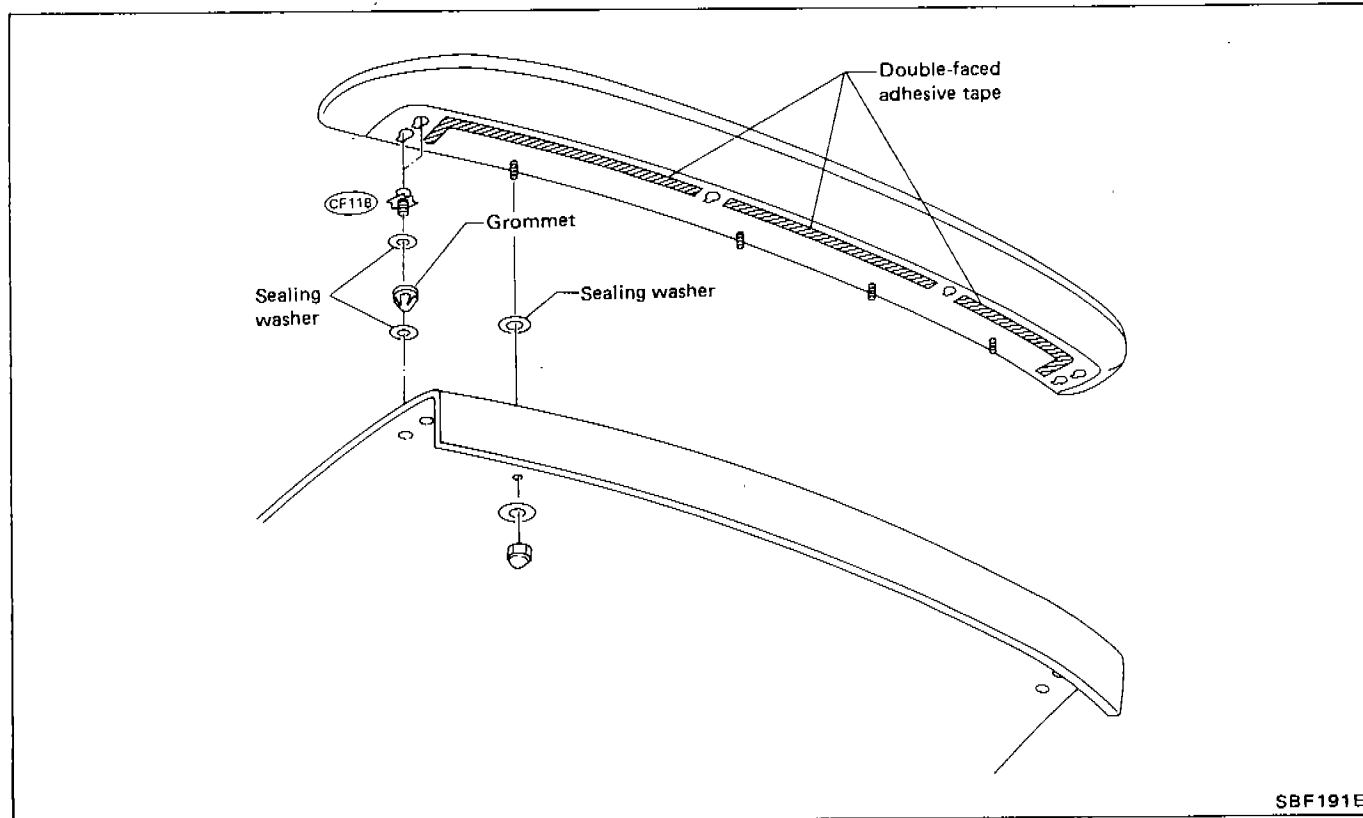
FRONT AND REAR AIR SPOILER

- When installing, make sure that there are not gaps or waves at ends of air spoiler.
- Before installing spoiler, clean and remove oil from surface where spoiler will be mounted.

FRONT AIR SPOILER

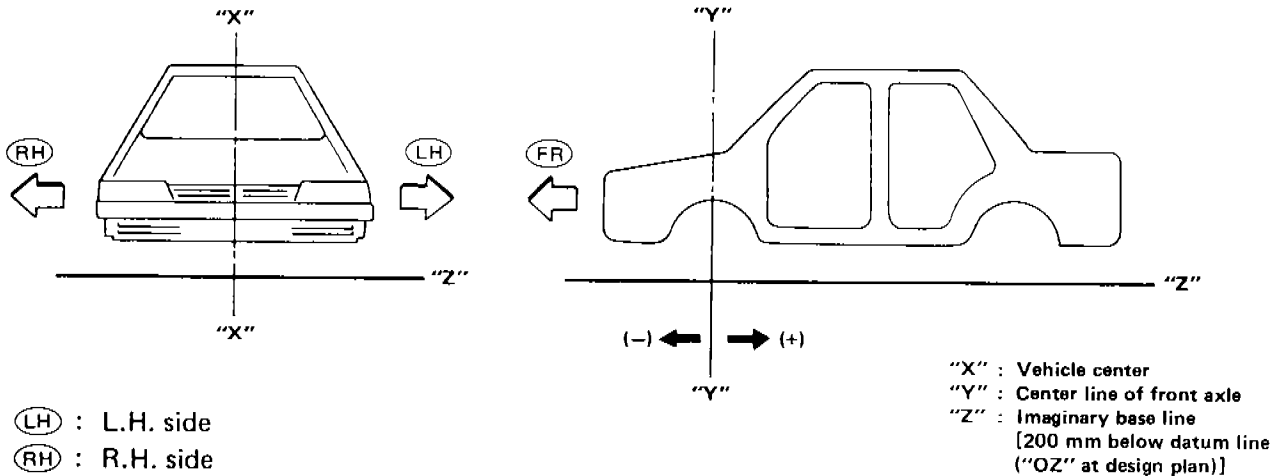


REAR AIR SPOILER



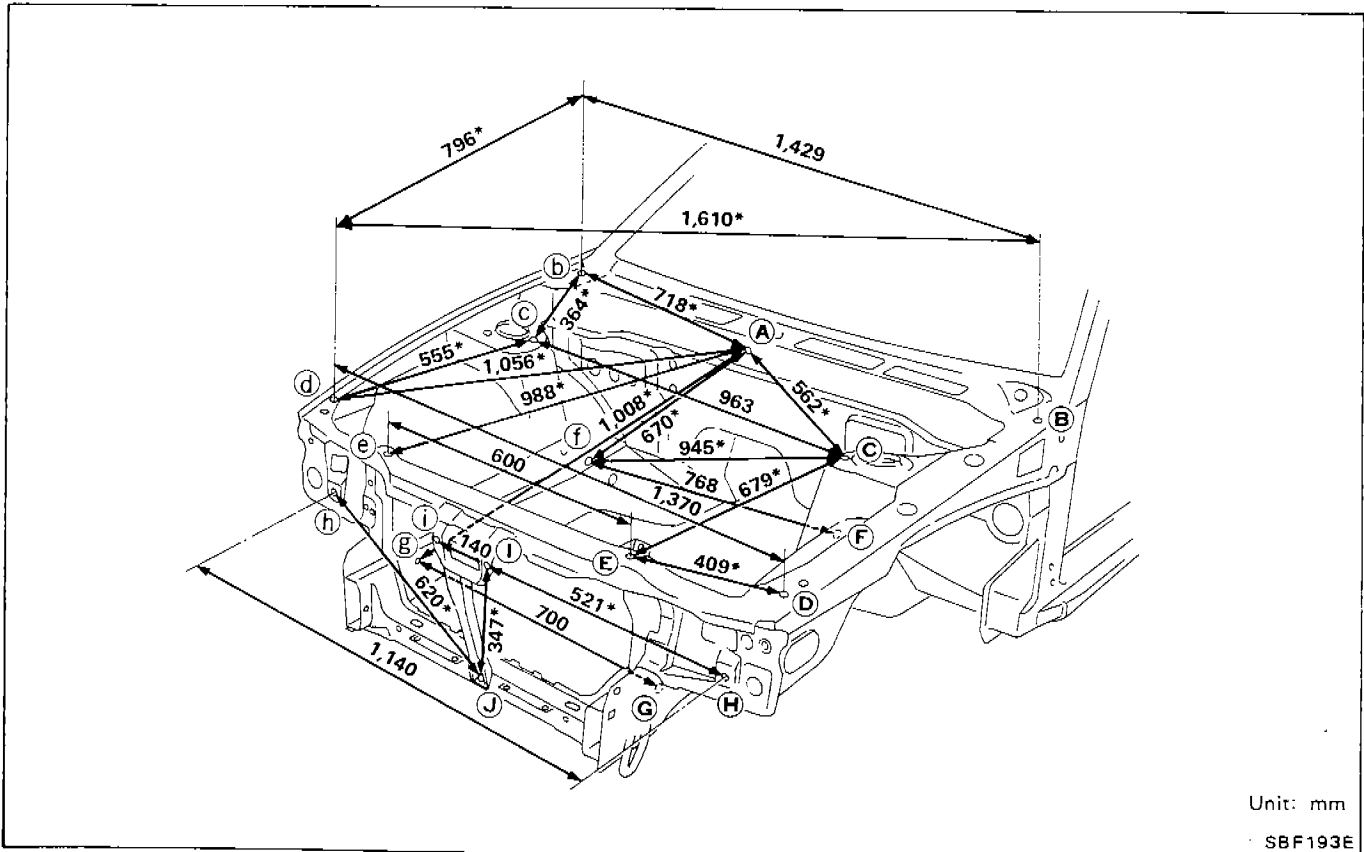
BODY ALIGNMENT

- All dimensions indicated in figures are actual ones.
- When a tram tracking gauge is used, adjust both pointers to equal length and check the pointers and gauge itself to make sure there is no free play.
- When a measuring tape is used, check to be sure there is no elongation, twisting or bending.
- Measurements should be taken at the center of the mounting holes.
- An asterisk (*) following the value at the measuring point indicates that the measuring point on the other side is symmetrically the same value.
- The coordinates of the measurement points are the distances measured from the standard line of "X", "Y" and "Z".



Engine Compartment

MEASUREMENT



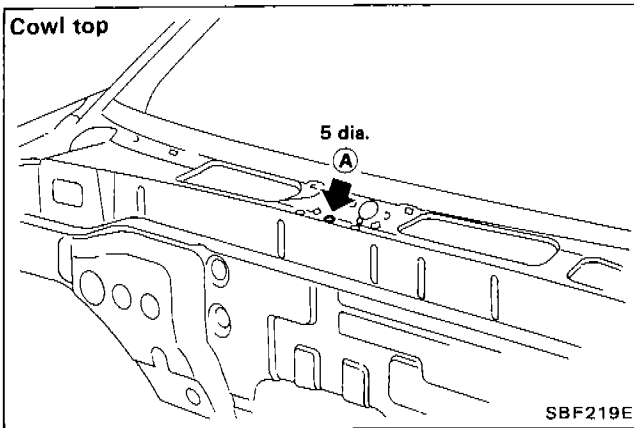
BODY ALIGNMENT

Engine Compartment (Cont'd)

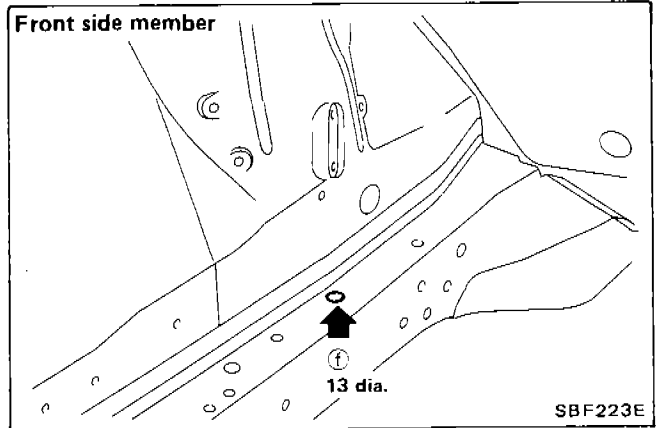
MEASUREMENT POINTS

Unit: mm

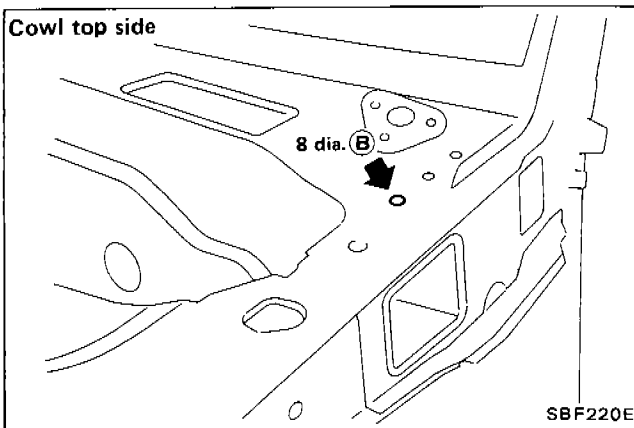
Cowl top



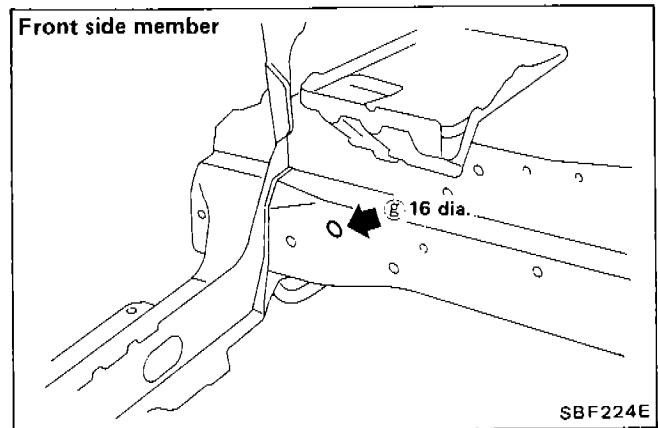
Front side member



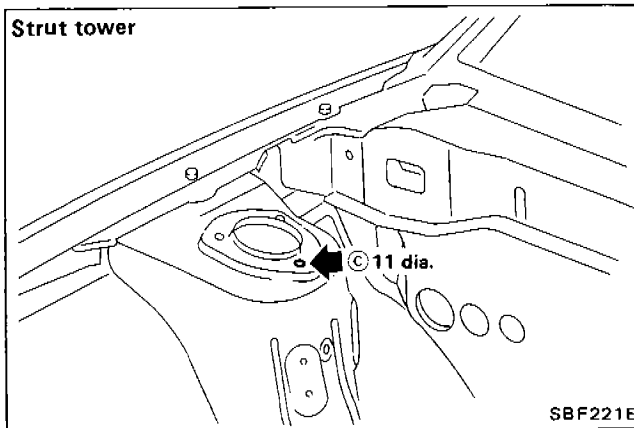
Cowl top side



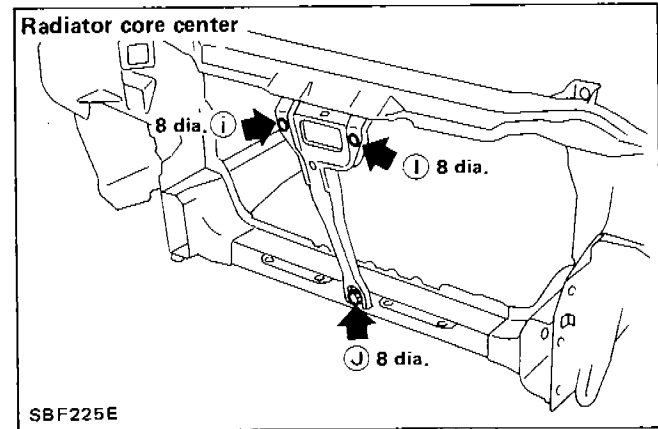
Front side member



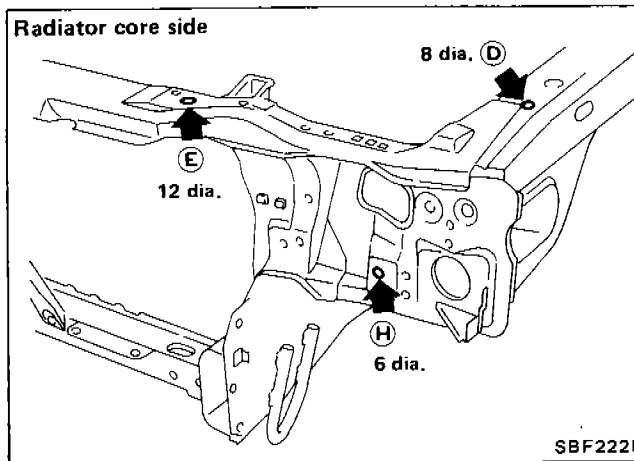
Strut tower



Radiator core center



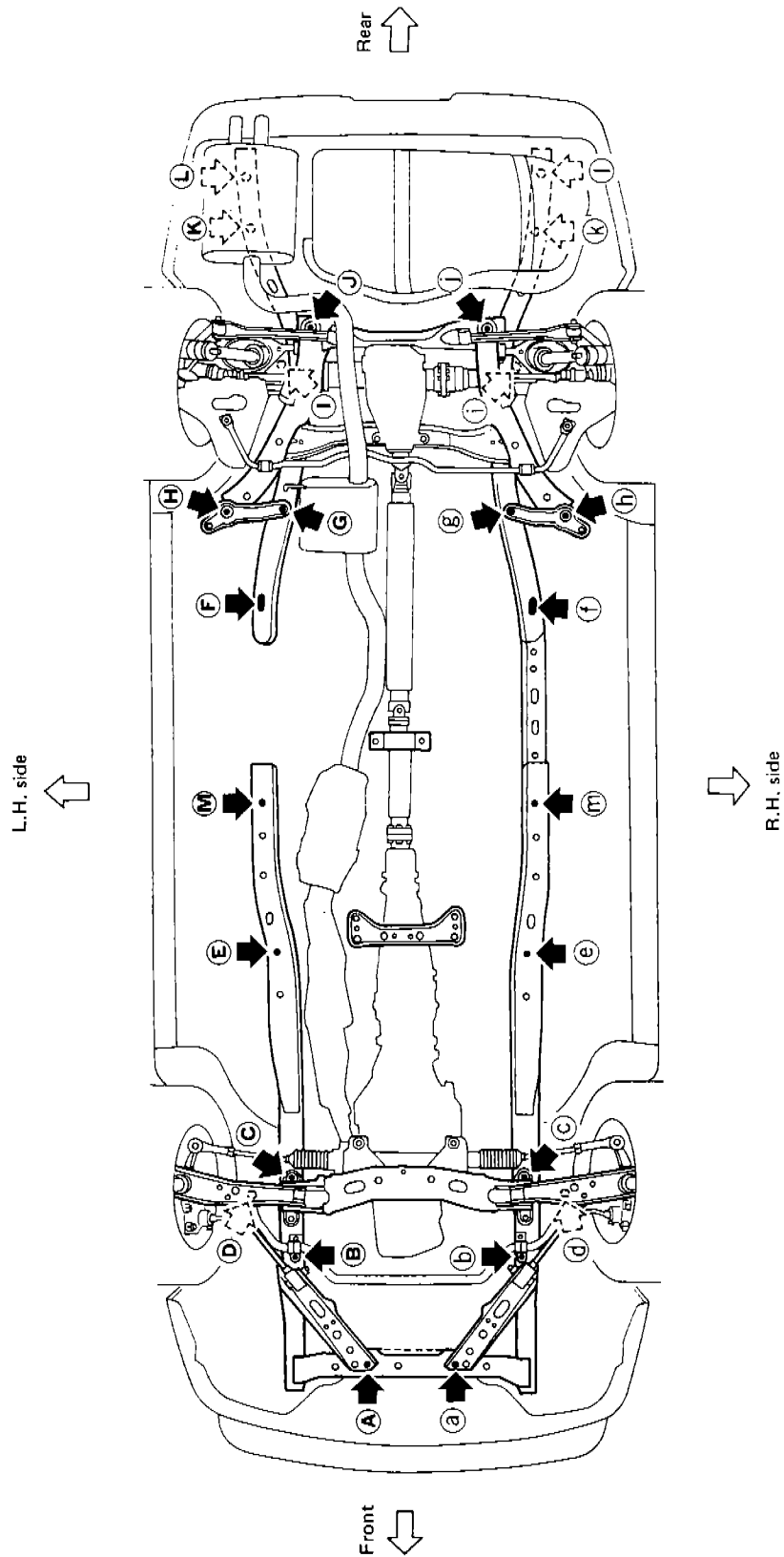
Radiator core side



BODY ALIGNMENT

Underbody (Cont'd)

MEASUREMENT POINTS



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