BODY & TRIM

SECTION BT

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Service Notice

- 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 installing. Be careful not to oil 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.

Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER" used along with a seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. The SRS system composition which is available to NISSAN MODEL R20 is as follows (The composition varies according to the destination and optional equipment.):

• For a frontal collision

The Supplemental Restraint System consists of driver air bag module (located in the center of the steering wheel), front passenger air bag module (located on the instrument panel on passenger side), front seat belt pre-tensioners, a diagnosis sensor unit, warning lamp, wiring harness and spiral cable.

• For a side collision

The Supplemental Restraint System consists of front side air bag module (located in the outer side of front seat), side air bag (satellite) sensor, diagnosis sensor unit (one of components of air bags for a frontal collision), wiring harness, warning lamp (one of components of air bags for a frontal collision).

Information necessary to service the system safely is included in the RS section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance should be performed by an authorized NISSAN dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the RS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. Spiral cable and wiring harnesses covered with yellow insulation tape either just before the harness connectors or for the complete harness are related to the SRS.

Description

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



CLIP AND FASTENER Description (Cont'd)

Symbol No.	Shapes	Removal & Installation
CG101	SBF145B	Removal: Rotate 45° to remove. Removal: Removal: SBF085B
CE117	SBF174D	Removal: Remove by bending up with a flat-bladed screwdriver or pliers.
CE801	YBT091	Removal: remove with flat-bladed screwdriver
CR103	SBF768B	Removal: Holder portion of clip must be spread out to remove rod.
CS103	УВТ094	 Removal: Screw out with a Phillips screwdriver. Remove female portion with flat-bladed screwdriver. SBF992G

Checking Body Corrosion

Visually check the body sheet metal panel for corrosion, paint damage (scratches, chipping, rubbing, etc.) or damage to the anti-corrosion materials. In particular, check the following locations.

Hemmed portion

Hood front end, door lower end, back door rear end, etc.

Panel joint

Side sill of rear fender and center pillar, rear wheel housing of rear fender, around strut tower in engine compartment, etc.

Panel edge

Back door opening, sunroof opening, fender wheelarch flange, fuel filler lid flange, around holes in panel, etc. **Parts contact**

Waist molding, windshield molding, bumper, etc.

Protectors

Damage or condition of mudguard, fender protector, chipping protector, etc.

Anti-corrosion materials

Damage or separation of anti-corrosion materials under the body.

Drain holes

Condition of drain holes at door and side sill.

When repairing corroded areas, refer to the Corrosion Repair Manual.

Removal and Installation

- When removing or installing hood, place a cloth or other padding on hood. This prevents vehicle body from being scratched.
- Bumper fascia is made of plastic. Do not use excessive force and be sure to keep oil away from it.
- 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. Doing so increases effort required to unlock hood.

BODY FRONT END

Removal and Installation (Cont'd)

FRONT BUMPER ASSEMBLY



Removal and Installation

- When removing or installing back door, place a cloth or other padding on back door. This prevents vehicle body from being scratched.
- Bumper fascia is made of plastic. Do not use excessive force and be sure to keep oil away from it.
- Back door adjustment: Adjust at hinge-back door portion for proper back door fit.
- Back door lock system adjustment: Adjust striker so that it is in the center of the lock. After adjustment, check back door lock operation.
- After installation, make sure that back door and fuel filler lid open smoothly.

REAR BUMPER ASSEMBLY



BODY REAR END AND OPENER

В

Removal and Installation (Cont'd)









NBF364

Removal and Installation

FRONT DOOR

- For removal of front door finisher, refer to "DOOR TRIM", BT-19.
- Remove sealing screen.
- After adjusting door or door lock, check door lock operation.



DOOR emoval and Installation (Cor



: N·m (kg-m, ft-lb)

EBF003

Removal and Installation (Cont'd) REAR DOOR

Wagon

- For removal of rear door finisher, refer to "DOOR TRIM", BT-19.
- Remove sealing screen.
- After adjusting door or door lock, make sure door lock properly.



Removal and Installation (Cont'd)



Removal and Installation (Cont'd)

• After adjusting door or door lock, make sure door locks properly.

BACK DOOR





Removal and Installation

CAUTION:

- •
- •
- Disconnect ground terminal from battery in advance. Disconnect air bag system line in advance. Never tamper with or force air bag lid open, as this may adversely affect air bag performance. Be careful not to scratch pad and other parts.

INSTRUMENT PANEL ASSEMBLY

Removal and Installation (Cont'd)



Removal and Installation

CAUTION:

• Wrap the tip of flat-bladed screwdriver with a cloth when removing metal clips from garnishes.



Wagon



Removal and Installation

CAUTION:

• When removing the outside mirror cover, situated at the inside of the door, pull the cover straight out to prevent the fasteners from breaking.



ROOF TRIM

Removal and Installation





Removal and Installation



Removal and Installation (Cont'd)

1 Hood front seal LOUVER HOOD/INTAKE AIR GROMMET 3.7 - 5 N•m (0.38 - 0.51 kg-m, 32.7 - 44.3 in-lb) Hood front sealing rubber CE801 \cap b ©E117 Clip T 3 P LOUVER HOOD/ INTAKE AIR Locating dowel (SI 働 船 ŝ 僻 ф ⇔

Removal and Installation (Cont'd)

2 Cowl top grille



③ Windshield upper molding and side molding



Removal and Installation (Cont'd)

(4) Roof weatherstrip











Removal and Installation (Cont'd)

(5) Drip weatherstrip



(6) Door weatherstrip



Removal and Installation (Cont'd)

⑦ Door mirror



Removal and Installation (Cont'd)

(8) Door weatherstrip outer



(9) Rear Door weatherstrip



Removal and Installation (Cont'd)

(8) Rear side window (Hardtop)



Removal and Installation (Cont'd)

(8) Rear side window (Wagon)



Removal and Installation (Cont'd)

(1) Rear upper weatherstrip



1 Rear lower weatherstrip



(1) Back door weatherstrip



Removal and Installation (Cont'd)







Removal and Installation (Cont'd)







Removal and Installation (Cont'd)

















Removal and Installation

- When removing or installing the seat trim, carefully handle it to keep dirt out and avoid damage. **CAUTION:**
- Before removing the front seat, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes (models with side air bag).
- Do not drop, tilt, or bump the side air bag module installed in the seat. Always handle it with care.
 Disconnect the side air bag harness connector and heated seat harness connector from under the
- Disconnect the side all bag namess connector and heated seat namess connector from under the seat before removing the seat.
- Disconnect the side air bag harness connector before removing the seatback. Refer to RS-27, "Front Side Air Bag Module" for details.

FRONT SEAT

Removal and Installation (Cont'd)



Heated Seat

★ For Wiring Diagram, refer to EL-128, "HEATED SEAT" for details.



Active Head Restraint

The active head restraint system is designed so that the headrest instantaneously moves towards the front upper direction by utilizing the force at the seatback during a rear-end collision.

As a result, the occupant's head is protected from being overextended, reducing the chance for neck injury as much as possible.

Seat with active head restraint have the labels shown in figures at left.

OPERATION OUTLINE

When the seatback receives a sharp backward force during a rearend collision, the input plate moves with the link rotating center as a pivot. The headrest will then move towards the front upper direction with the center of the sliding roller as a pivot.

As the backward force on the seatback is eliminated, spring tension returns the headrest to its original position.

SECOND SEAT

Removal and Installation

• When removing or installing the seat trim, handle carefully to keep dirt out and avoid damage.

TYPE 1 (HARDTOP)



SECOND SEAT

Removal and Installation (Cont'd)

TYPE 2 (WAGON)



THIRD SEAT

Removal and Installation



: N·m (kg-m, ft-lb)

NBF236

SUNROOF

Removal and Installation

- After any adjustment, check sunroof operation and lid alignment.
- Handle finisher plate and glass lid with care so not to cause damage.
- It is desirable for easy installation to mark each point before removal.

CAUTION:

- Always work with a helper.
- Remove sunroof frame rear door opening.

SUNROOF LID ASSEMBLY

- ① Open sunroof shade.
- 2 Close sunroof lid, and remove adjustment screw covers.
- **③** Remove the four adjuster screws
- (4) Remove sunroof lid assembly.

SUNROOF ASSEMBLY

- 1. Remove headlining. For details, refer to "ROOF TRIM", BT-20.
- 2. Disconnect interior lamp harness.
- 3. Disconnect front and rear drain hoses.
- 4. Remove nuts and bolts securing sunroof frame and motor to roof.
- 5. Remove sunroof assembly.

SUNROOF

Removal and Installation (Cont'd)





Removal and Installation

REMOVAL

After removing moldings, remove glass using piano wire or power cutting tool and an inflatable pump bag. **WARNING:**

When cutting the glass from the vehicle, always wear safety glasses and heavy gloves to help prevent glass splinters from entering your eyes or cutting your hands. CAUTION:

- Be careful not to scratch the glass when removing.
- Do not set or stand the glass on its edge. Small chips may develop into cracks.





INSTALLATION

- Use a genuine Nissan Urethane Adhesive Kit or equivalent and follow the instructions furnished with it.
- While the urethane adhesive is curing, open a door window. This will prevent the glass from being forced out by passenger compartment air pressure when a door is closed.
- The molding must be installed securely so that it is in position and leaves no gap.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (preferably 24 hours). Curing time varies with temperature and humidity.

WARNING:

- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Avoid contact with the skin and eyes.
- Use in an open, well ventilated location. Avoid breathing the vapors. They can be harmful if inhaled. If affected by vapor inhalation, immediately move to an area with fresh air.
- Driving the vehicle before the urethane adhesive has completely cured may affect the performance of the windshield in case of an accident.

CAUTION:

- Do not use an adhesive which is past its usable term. Shelf life of this product is limited to six months after the date of manufacture. Carefully adhere to the expiration or manufacture date printed on the box.
- Keep primers and adhesive in a cool, dry place. Ideally, they should be stored in a refrigerator.
- Do not leave primers or adhesive cartridge unattended with their caps open or off.
- The vehicle should not be driven for at least 24 hours or

Removal and Installation (Cont'd)

until the urethane adhesive has completely cured. Curing time varies depending on temperature and humidities. The curing time will increase under higher temperatures and lower humidities.

WINDSHIELD, REAR SIDE WINDOW AND BACK DOOR WINDOW



Removal and Installation (Cont'd)



WINDSHIELD AND WINDOWS

Removal and Installation (Cont'd)



Removal and Installation (Cont'd)

DRYING TIME FOR SEALANT

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

CAUTION:

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

Relative humidity	Windshield and Rear window			Back door window			
Temperature °C (°F)	90	50	25	90	50	25	
40 (104)	1.5	2.5	5.0	1.5	2.5	5.5	
25 (77)	2.5	4.0	7.5	2.5	4.5	8.5	
5 (41)	5.0	13.0	20.5	5.5	14.0	22.0	

REPAIRING WATER LEAKS FOR WINDSHIELD

Leaks can be repaired without removing and reinstalling glass. If water is leaking between the urethane adhesive material and body or glass, determine the extent of leakage. This can be done by applying water to the windshield area while pushing glass outward.

Unit: days

To stop the leak, apply primer (if necessary) and then urethane adhesive to the leak point.



WINDSHIELD AND WINDOWS

Removal and Installation (Cont'd) BACK DOOR WINDOW

- Window glass is held in place by weatherstrip. Refer to "EXTERIOR", BT-21.
- Apply sealer to clearances between vehicle body panel and weatherstrip as necessary.



DOOR MIRROR

Removal and Installation

CAUTION:

Be careful not to scratch door rearview mirror body.

★ For Wiring Diagram, refer to EL-241, "DOOR MIRROR" for details.

- 1. Remove door trim. Refer to "DOOR TRIM", BT-19.
- 2. Remove inner cover front corner of door.
- 3. Disconnect door mirror harness connector.
- 4. Remove harness clips.
- 5. Remove bolts securing door mirror assembly.



Alignment

- All dimensions indicated in figures are actual ones.
- When using a tracking gauge, adjust both pointers to equal length. Then 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

Unit: mm (in)



Detailed Measurement Points

Pointo	Hole dia.	Detailed points		Coordinates mm (in)		n (in)
FUILIS	mm (in)	Detailed points		"X"	"Y"	"Z"
(Å)	8 (0.32)	NBF022	Cowl top hole at vehicle center	0.0 (0.00)	250.0 (9.84)	760.9 (29.96)
B b	11 (0.43)	Hood hinge B B NBF023	Cowl top side hole	698.5 (27.50)	–110.1 (–4.34)	624.7 (24.59)
00	8 (0.32)	Bumper rubber	Upper radiator core support location hole	691.0 (27.20)	-459.5 (-18.09)	548.0 (21.58)
(H) (h)	16 (0.63)	NBF024	Side radiator core support location hole	680.0 (26.77)	-551.7 (-21.72)	400.0 (15.75)

(1) : Coordinate indicated is (LH), (RH) coordinate is - (LH) coordinate. E.g. if (LH) coordinate is: 698.5, (RH) coordinate is: -698.5.

Deinte	Hole dia.	Detailed points		Coo	rdinates mr	n (in)
Points	mm (in)	Detailed points		"X"	"Y"	"Z"
Ē	9 (0.35)		Hood lock stay mounting hole on upper radia- tor core support	37.0 (1.46)	589.0 (23.19)	494.0 (19.45)
0			Lower radiator core support mounting hole	0.0 (0.00)	-581.1 (-22.88)	-54.1 (-2.13)
© (g	12 (0.47)	NBF025	Lower radiator core support location hole	280.0 (11.02)	-608.9 (-23.97)	-23.0 (-0.91)
© ©	7.2 (0.28)	NBF027	Front fender mounting hole on hoodledge	698.5 (27.50)	-110.1 (-4.34)	624.7 (24.59)

① : Coordinate indicated is LH), RH) coordinate is - LH) coordinate. E.g. if LH) coordinate is: 698.5, RH) coordinate is: -698.5.

UNDERBODY

Measurement (Hardtop model)







Unit: mm



[] ⊕

Unit: mm

NBF029

UNDERBODY

Measurement (Wagon model)





Unit: mm



Unit: mm

NBF031

Detailed Measurement Points

Points	Detailed points		Co	ordinates mm	(in)
FOILIS			"X"	"Y"	"Z"
(A) (a)			450.0 (17.72)	-488.5 (-19.23)	58.0 (2.28)
(b) (d)	Center of hole on top of bracket		605.0 (23.82)	597.5 (23.52)	4.7 (0.18)
Ē®			593.5 (23.37)	1,537.0 (60.51)	10.0 (0.39)
69		Body mounting bracket hole	₩ : 600.0 (23.62)	₩ : 2,135.0 (84.06)	₩ : 140.2 (5.52)
(K) (k)	SBF274B		593.5 (23.37)	₩ : 3,477.5 (136.91) H : 2,997.5 (118.01)	195.5 (7.70)
B (b)		Front shock absorber bracket mounting hole	442.0 (17.40)	-16.0 (-0.63)	196.5 (7.74)
© ©	NBF033	Compression rod mounting hole	362.6 (14.28)	290.0 (11.42)	-158.9 (-6.26)

(1) : Coordinate indicated is (LH), (RH) coordinate is - (LH) coordinate. E.g. if (LH) coordinate is: 698.5, (RH) coordinate is: -698.5.

Points	Detailed points		Co	ordinates mm	(in)
FOILTS			"X"	"Y"	"Z"
(F) (F)	NBF034	Lower link mount- ing bracket hole	538.0 (21.18)	₩ : 2,059.0 (81.06) H : 1,859.0 (73.19)	-146.0 (-5.75)
(H) (b)	NBF035	Upper link mount- ing bracket hole	270.7 (10.66)	₩ : 2,382.3 (93.79) Η : 2,182.3 (85.92)	5.0 (0.20)
00	NBF036	Rear spring mounting bracket hole	375.0 (14.76)	₩ : 2,610.0 (102.76) H : 2,410.0 (94.88)	210.0 (8.27)
(j)	Front Front NBF037	Rear panhard rod mounting bracket hole	(RH) only -495.8 (-19.52)	₩ : 2,843.7 (111.96) H : 2,643.7 (104.08)	-55.0 (-2.16)

① : Coordinate indicated is LH), RH coordinate is - LH coordinate. E.g. if LH coordinate is: 698.5, RH coordinate is: -698.5.

Points	Detailed points		Coordinates mm (in)		
FUILIS			"X"	"Y"	"Z"
© ()		5th crossmember location hole	225.0 (8.86)		[₩]: 264.4 (10.41) [H]: 284.4 (11.20)
(M) (m)	NBF038	6th crossmember location hole	300.0 (11.81)	₩ : 3,530.0 (138.98) H : 3,050.0 (120.08)	240.6 (9.47)

(1) : Coordinate indicated is LH), (RH) coordinate is - LH) coordinate. E.g. if LH) coordinate is: 698.5, (RH) coordinate is: -698.5.

NOTES