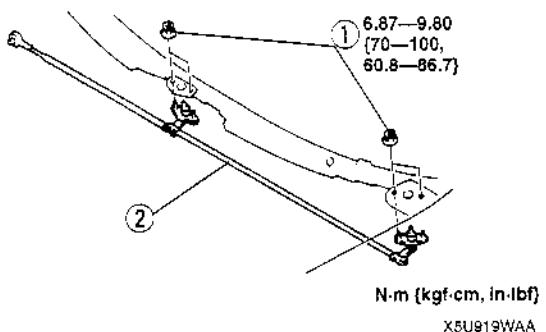


# WIPER AND WASHER

## WINDSHIELD WIPER LINK REMOVAL/INSTALLATION

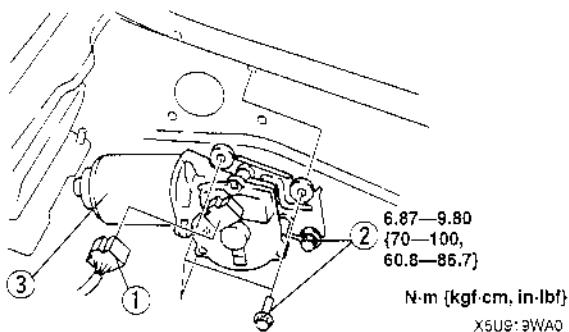
1. Remove the windshield wiper arm and blade.  
(Refer to 09–19 WINDSHIELD WIPER ARM AND BLADE REMOVAL/INSTALLATION, Windshield Wiper Arm Installation Note.)
2. Remove the cowl grille.
3. Pry off the connection between the windshield wiper motor and the windshield wiper link.
4. Remove in the order indicated in the table.
5. Install in the reverse order of removal.
6. Adjust the windshield wiper arm and blade. (Refer to 09–19 WINDSHIELD WIPER ARM AND BLADE ADJUSTMENT.)



1	Nut
2	Windshield wiper link

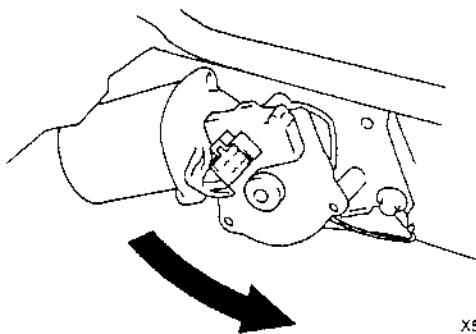
## WINDSHIELD WIPER MOTOR REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Pry off the connection between the windshield wiper motor and windshield wiper link.
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.



### Windshield Wiper Motor Removal Note

- Rotate the windshield wiper motor counterclockwise and then remove it.



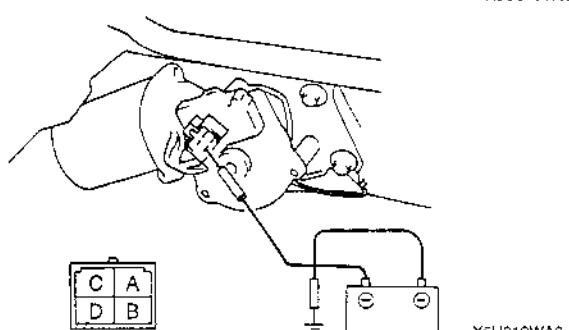
X5U919WA5

1	Windshield wiper motor connector
2	Bolt
3	Windshield wiper motor <small>☞ Removal Note</small>

## WINDSHIELD WIPER MOTOR INSPECTION

1. Disconnect the windshield wiper motor connector.
2. Apply battery positive voltage and inspect the operation of the windshield wiper motor as indicated below.

Terminal	Operation
A	High
C	Low



3. Connect the windshield wiper motor connector.

## WIPER AND WASHER

4. Turn the ignition switch to ON and turn the windshield wiper switch on.
5. Turn the ignition switch to LOCK while the windshield wipers are operating.
6. Verify that the windshield wipers do not stop in the park position.
7. Disconnect the windshield wiper motor connector.
8. Inspect for continuity between the windshield wiper motor terminals by using an ohmmeter.

○—○ : Continuity

Windshield wiper motor position	Terminal				
	C	A	B	D	Body GND
Except park position	○—○		○—○		○

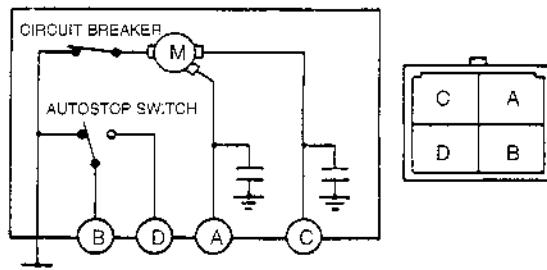
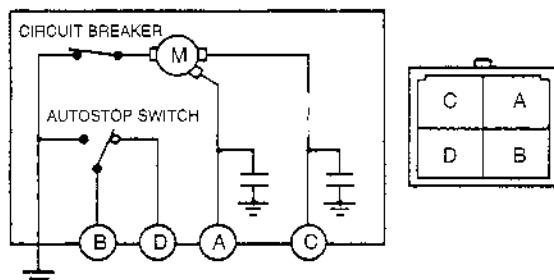
X5U919WA1

10. Turn the ignition switch to ON and turn the windshield wiper switch on.
11. Turn the windshield wiper switch off while the windshield wipers are operating.
12. Verify that the windshield wipers stop in the park position.
13. Disconnect the windshield wiper motor connector.
14. Inspect for continuity between the windshield wiper motor terminals by using an ohmmeter.

○—○ : Continuity

Windshield wiper motor position	Terminal			
	A	B	C	Body GND
Park position	○	○	○	○

X5U919WA3



9. Connect the windshield wiper motor connector.

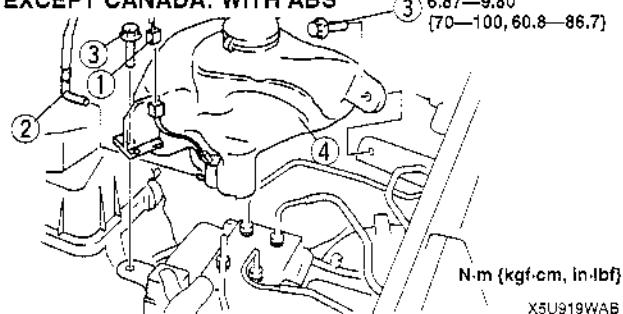
15. If not as specified, replace the windshield wiper motor.

### WINDSHIELD WASHER TANK REMOVAL/INSTALLATION

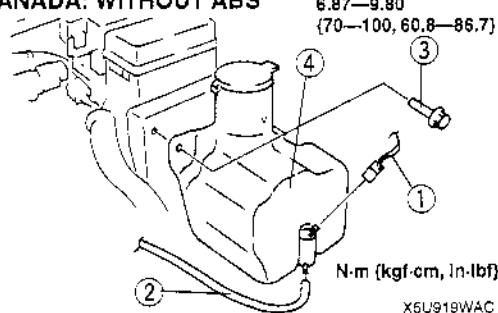
X5U919W06

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.

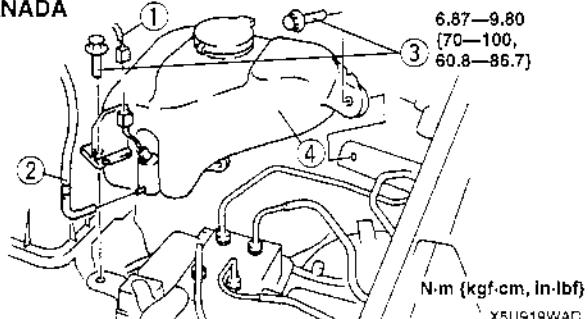
#### EXCEPT CANADA: WITH ABS



#### EXCEPT CANADA: WITHOUT ABS



#### CANADA



1	Windshield washer motor connector
2	Windshield washer pipe
3	Bolt
4	Windshield washer tank

# WIPER AND WASHER

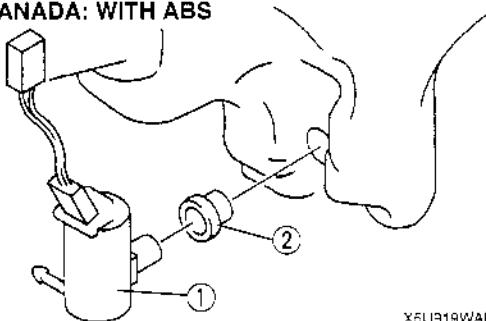
## WINDSHIELD WASHER MOTOR REMOVAL/INSTALLATION

X5U919W07

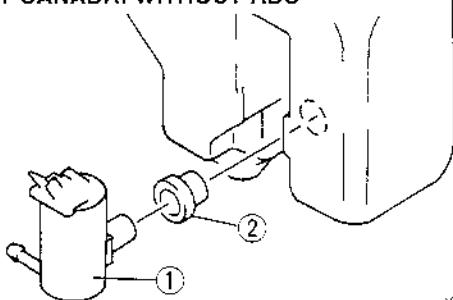
1. Disconnect the negative battery cable.
2. Remove the windshield washer tank.
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.

### EXCEPT CANADA: WITH ABS

CANADA



### EXCEPT CANADA: WITHOUT ABS



1	Windshield washer motor
2	Grommet

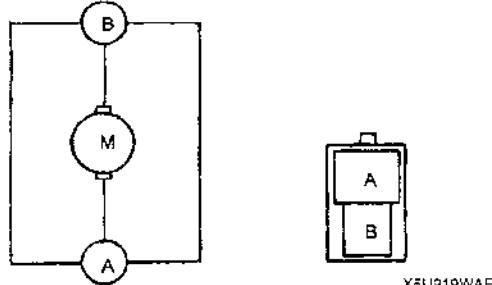
## WINDSHIELD WASHER MOTOR INSPECTION

X5U919W08

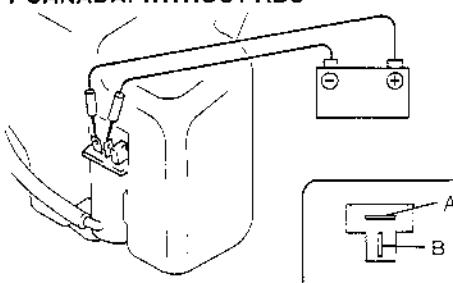
1. Disconnect the windshield washer motor connector.
2. Connect battery positive voltage to the terminal B and ground to the terminal A of the motor.
3. Verify that the windshield washer motor operates.

### EXCEPT CANADA: WITH ABS

CANADA



### EXCEPT CANADA: WITHOUT ABS



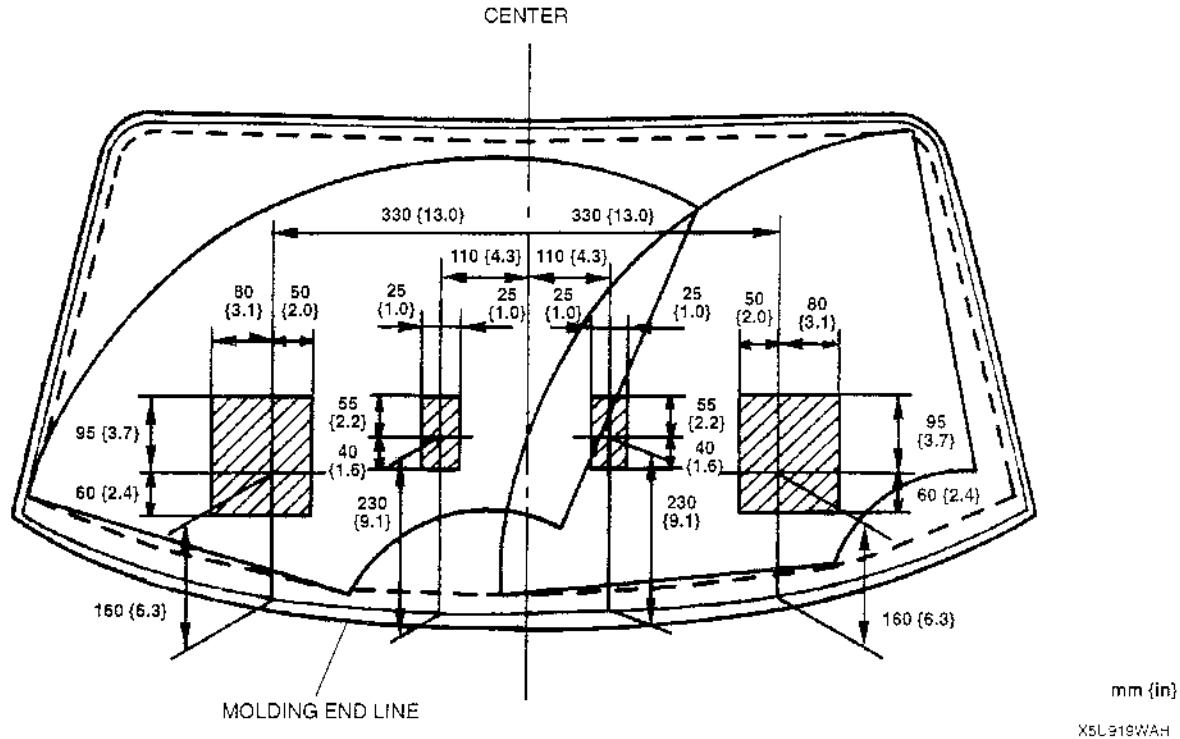
4. If the motor does not operate, replace the windshield washer motor.

# WIPER AND WASHER

## WINDSHIELD WASHER NOZZLE ADJUSTMENT

X5U919W1\*

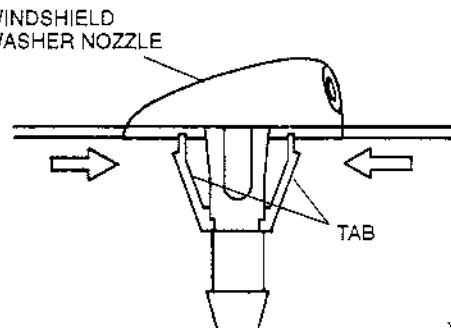
- Insert a needle or equivalent tool into the spray holes of the windshield washer nozzle and adjust the nozzle direction as shown.



## WINDSHIELD WASHER NOZZLE REMOVAL

X5U919W09

- Disconnect the windshield washer pipe from the windshield washer nozzle.
- Remove the windshield washer nozzle by squeezing the tabs.



## WINDSHIELD WASHER NOZZLE INSTALLATION

X5U919W10

- Connect the windshield washer pipe to the windshield washer nozzle.
- Push the windshield washer nozzle into the installation hole.
- Adjust the windshield washer nozzle. (Refer to 09-19 WINDSHIELD WASHER NOZZLE ADJUSTMENT.)

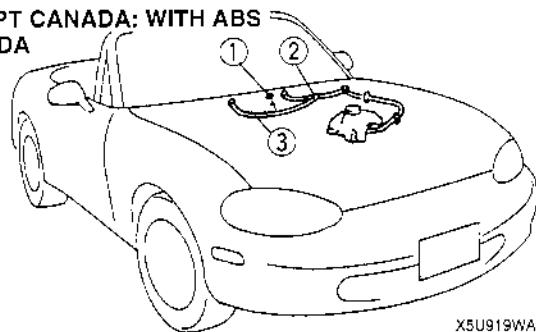
## WIPER AND WASHER

### WINDSHIELD WASHER PIPE REMOVAL/INSTALLATION

XSU919W12

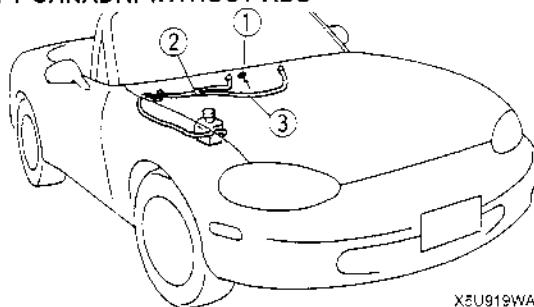
1. Remove in the order indicated in the table.
2. Install in the reverse order of removal.

#### EXCEPT CANADA: WITH ABS CANADA



XSU919WAJ

#### EXCEPT CANADA: WITHOUT ABS



XSU919WAK

1	Clip
2	Joint pipe
3	Windshield washer pipe

## 09-20 ENTERTAINMENT

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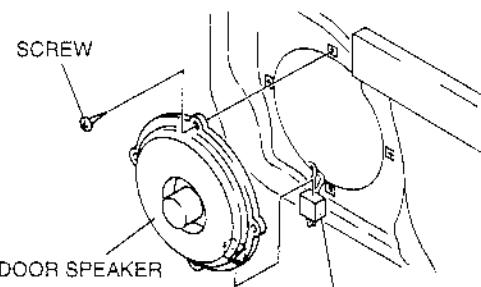
FRONT ANTENNA FEEDER	
REMOVAL/INSTALLATION .....	09-20-6
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INSPECTION .....	09-20-6
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## DOOR SPEAKER REMOVAL/INSTALLATION

## Caution

- When removing or installing a door speaker, touching the radio cone paper could cause poor sound quality. When removing or installing a door speaker, hold the speaker's bracket and handle with care.

- Disconnect the negative battery cable.
- Remove the door trim. (Refer to 09-17 DOOR TRIM REMOVAL/INSTALLATION.)
- Remove the screws.
- Disconnect the door speaker connector and remove the door speaker.



X5U920W01

- Position the door speaker so that the terminals face downward and install in the reverse order of removal.

X5U920WA0

## DOOR SPEAKER INSPECTION

X5U920W02

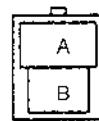
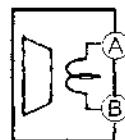
- Remove the door speaker. (Refer to 09-20 DOOR SPEAKER REMOVAL/INSTALLATION.)
- Inspect for resistance between the door speaker terminals by using an ohmmeter.

Ω·W·Ω : Resistance

Door speaker	Terminal	
	A	B
Standard type	○—^—^—○	R <sub>1</sub>
BOSE type	○—^—^—○	R <sub>2</sub>

R<sub>1</sub>: 4 Ω   R<sub>2</sub>: 0.5 Ω

X5U920WA1



X5U920WA2

- Touch the leads of an ohmmeter to the door speaker terminals and verify that the speaker clicks.

Range  
×1 Ω

- If not as specified, replace the door speaker.

# ENTERTAINMENT

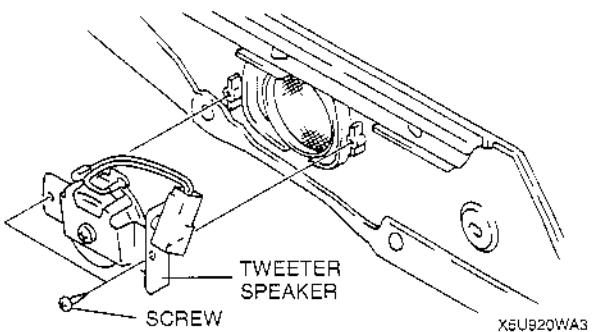
## TWEETER SPEAKER REMOVAL/INSTALLATION

X5U920WC3

### Caution

- When removing or installing a tweeter speaker, touching the radio cone paper could cause poor sound quality. When removing or installing a tweeter speaker, hold the speaker's bracket and handle with care.

- Disconnect the negative battery cable.
- Remove the door trim. (Refer to 09-17 DOOR TRIM REMOVAL/INSTALLATION.)
- Remove the screws and remove the tweeter speaker.



- Install in the reverse order of removal.

## TWEETER SPEAKER INSPECTION

X5U920CW04

- Remove the tweeter speaker. (Refer to 09-20 TWEETER SPEAKER REMOVAL/INSTALLATION.)
- Inspect for resistance between the tweeter speaker terminals by using an ohmmeter.

○W-○ : Resistance

Test condition	Terminal	
	A	B
Constant	○—W—○	R

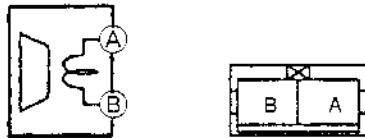
R: 4 Ω  
X5U920WA4

- Touch the leads of an ohmmeter to the tweeter speaker terminals and verify that the speaker clicks.

### Range

×1 Ω

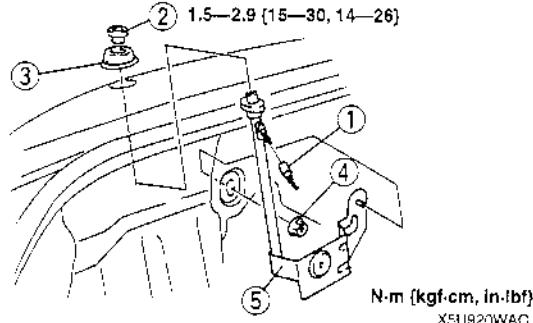
- If not as specified, replace the tweeter speaker.



X5U920WA5

**MANUAL ANTENNA REMOVAL/INSTALLATION**

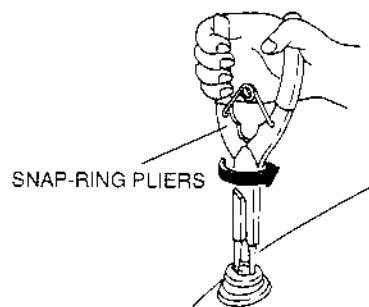
1. Disconnect the negative battery cable.
2. Remove the trunk side trim (LH). (Refer to 09-17 TRUNK SIDE TRIM REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.



X5U920W09

**Mounting Nut Removal Note**

- Use a snap-ring pliers to remove the mounting nut.



X5U920WAD

1	Rear antenna feeder
2	Mounting nut ☞ Removal Note
3	Spacer
4	Nut
5	Manual antenna

**MANUAL ANTENNA INSPECTION**

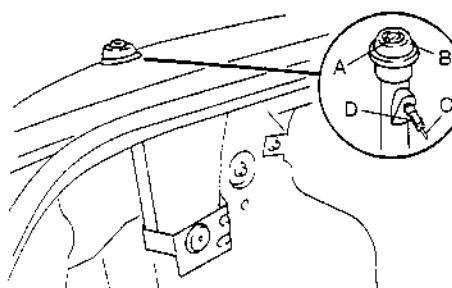
1. Remove the trunk side trim (LH). (Refer to 09-17 TRUNK SIDE TRIM REMOVAL/INSTALLATION.)
2. Disconnect the connection between the rear antenna feeder and the manual antenna.
3. Verify that there is no continuity between manual antenna terminals A and B by using an ohmmeter.
4. Inspect for continuity between the manual antenna terminals by using an ohmmeter.

○—○ : Continuity

Step	Terminal			
	A	B	C	D
1	○		○	
2		○		○

X5U920WAE

X5U920W10



X5U920WAF

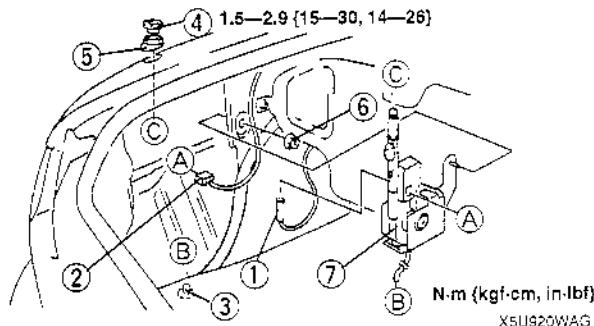
5. If not as specified, replace the manual antenna.

# ENTERTAINMENT

## POWER ANTENNA REMOVAL/INSTALLATION

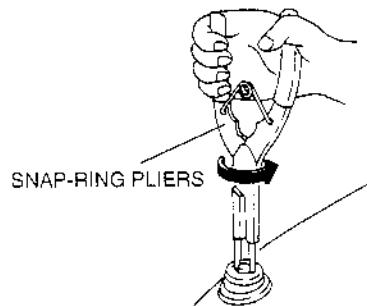
XEJ920W11

1. Disconnect the negative battery cable.
2. Remove the trunk side trim (LH). (Refer to 09-17 TRUNK SIDE TRIM REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.



### Mounting Nut Removal Note

- Use a snap-ring pliers to remove the mounting nut.



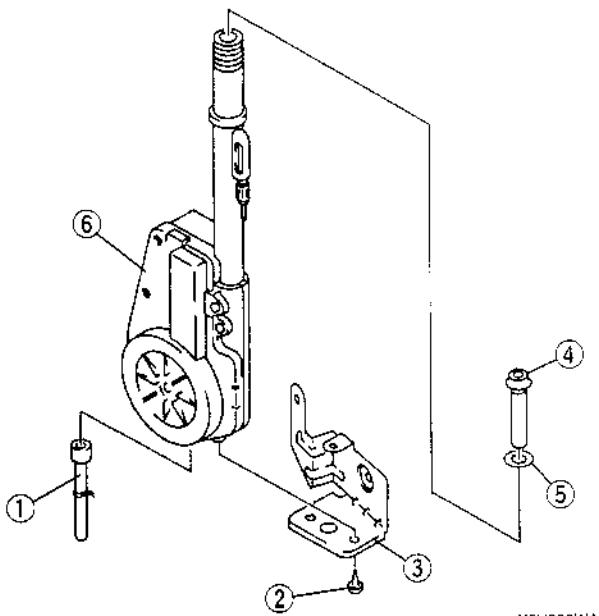
X5U920WAH

1	Rear antenna feeder
2	Power antenna connector
3	Drain hose
4	Mounting nut ☞ Removal Note
5	Spacer
6	Nut
7	Power antenna

## POWER ANTENNA DISASSEMBLY/ASSEMBLY

X5U920W12

1	Drain hose
2	Screw
3	Bracket
4	Rod insulator
5	O-ring
6	Motor

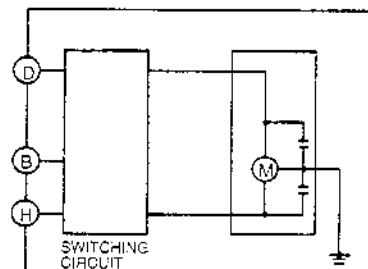


## POWER ANTENNA INSPECTION

1. Remove the trunk side trim (LH). (Refer to 09-17 TRUNK SIDE TRIM REMOVAL/INSTALLATION.)
2. Disconnect the power antenna connector.
3. Connect ground to terminal H of the power antenna.
4. Connect battery positive voltage to the following terminals of the power antenna. Verify that the power antenna operated as indicated below.

X5U920W13

Terminal		Power antenna operation
B	D	
B+	—	Down
B+	B+	Up



X5U920WAK

5. If not as specified, replace the necessary part.

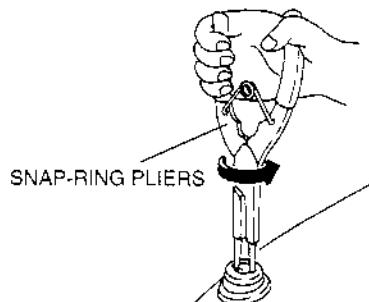
X5U920W14

## ANTENNA MAST REMOVAL

**Caution**

- Always remove the antenna mast with the power antenna installed in the vehicle. Removing the antenna mast from the removed power antenna may damage the power antenna or the antenna mast.

1. Use a snap-ring pliers to remove the mounting nut.



X5U920WAL

X5U920W15

## ANTENNA MAST INSTALLATION

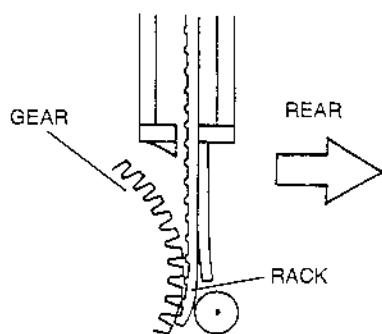
1. Turn the ignition switch to ON or ACC.
2. Straighten the warp of rack end.
3. Audio power switch is ON.
4. To turn on the radio, press AM/FM button.
5. To turn off the radio, audio power switch is off, then immediately insert the rack into the power antenna.

6. After the antenna mast is fully retracted, tighten the mounting nut to the specification.

**Tightening torque**

1.5—2.9 N·m {15—30 kgf·cm, 14—26 in·lbf}

7. Verify that the power antenna operates smoothly when the audio unit radio on.

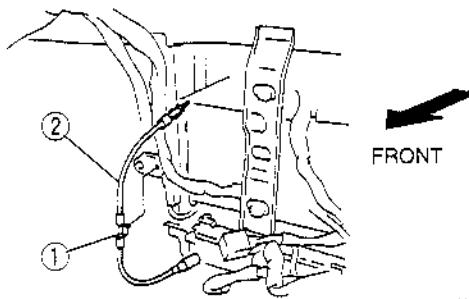


X5U920WAM

## FRONT ANTENNA FEEDER REMOVAL/INSTALLATION

X5U920W06

1. Disconnect the negative battery cable.
2. Remove the audio unit. (Refer to 09-20 AUDIO UNIT REMOVAL.) (Refer to 09-20 AUDIO UNIT INSTALLATION.)
3. Remove the console. (Refer to 09-17 CONSOLE REMOVAL/INSTALLATION.)
4. Disconnect the connection between the front antenna feeder and the rear antenna feeder.
5. Remove in the order indicated in the table.
6. Install in the reverse order of removal.



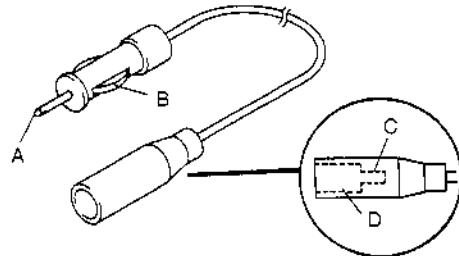
X5U920WA8

1	Clip	
2	Front antenna feeder	

## FRONT ANTENNA FEEDER INSPECTION

X5U920W05

1. Disconnect the negative battery cable.
2. Remove the audio unit. (Refer to 09-20 AUDIO UNIT REMOVAL.)
3. Remove the console. (Refer to 09-17 CONSOLE REMOVAL/INSTALLATION.)
4. Disconnect the connection between front antenna feeder and the rear antenna feeder.
5. Verify that there is no continuity between front antenna feeder terminals A and B by using an ohmmeter.
6. Inspect for continuity between the front antenna feeder terminals by using an ohmmeter.



X5U920WA7

7. If not as specified, replace the front antenna feeder.

Step	Terminal			
	A	B	C	D
1	○		○	
2		○		○

X5U920WA6

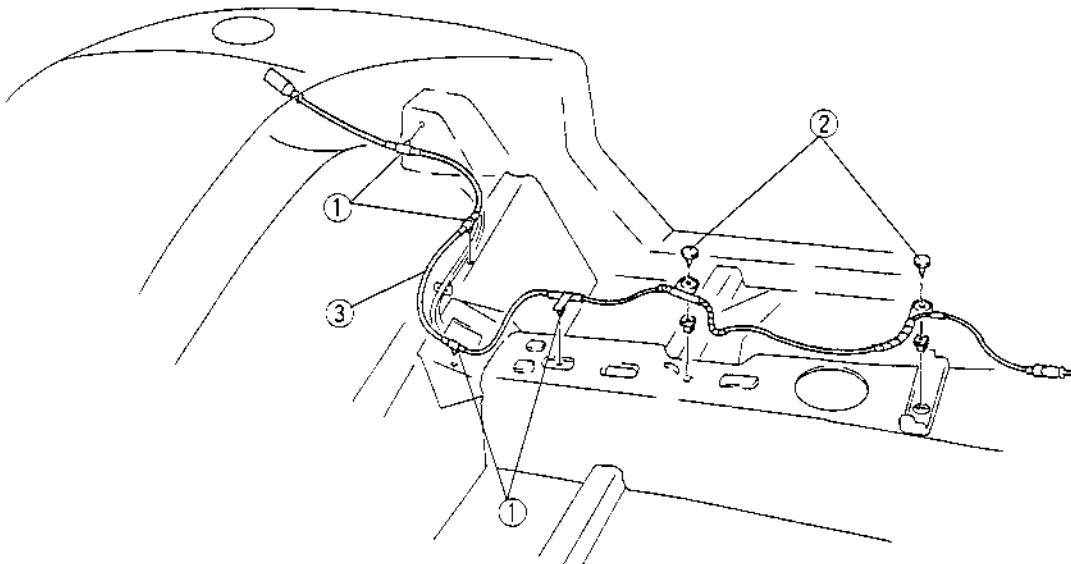
# ENTERTAINMENT

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## REAR ANTENNA FEEDER REMOVAL/INSTALLATION

X5U920W07

1. Disconnect the negative battery cable.
2. Remove the trunk side trim (LH). (Refer to 09-17 TRUNK SIDE TRIM REMOVAL/INSTALLATION.)
3. Disconnect the connection between the rear antenna feeder and the power antenna. (With manual antenna: manual antenna)
4. Remove the rear package trim. (Refer to 09-17 REAR PACKAGE TRIM REMOVAL/INSTALLATION.)
5. Turn over the floor covering from the right side. (Refer to 09-17 FLOOR COVERING REMOVAL/INSTALLATION.)
6. Disconnect the connection between the front antenna feeder and the rear antenna feeder.
7. Remove in the order indicated in the table.
8. Install in the reverse order of removal.



X5U920WA9

1	Clip
2	Fastener

3	Rear antenna feeder
---	---------------------

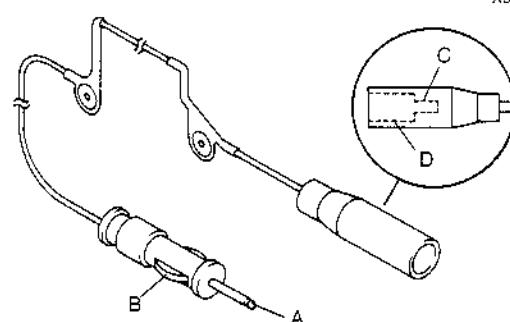
## REAR ANTENNA FEEDER INSPECTION

1. Remove the console. (Refer to 09-17 CONSOLE REMOVAL/INSTALLATION.)
2. Disconnect the connection between the front antenna feeder and the rear antenna feeder.
3. Remove the trunk side trim (LH). (Refer to 09-17 TRUNK SIDE TRIM REMOVAL/INSTALLATION.)
4. Disconnect the connection between the rear antenna feeder and the power antenna. (With manual antenna: manual antenna)
5. Verify that there is no continuity between rear antenna feeder terminals A and B by using an ohmmeter.
6. Inspect for continuity between the rear antenna feeder terminals by using an ohmmeter.

○—○ : Continuity

Step	Terminal			
	A	B	C	D
1	○		○	
2		○		○

X5U920WAA

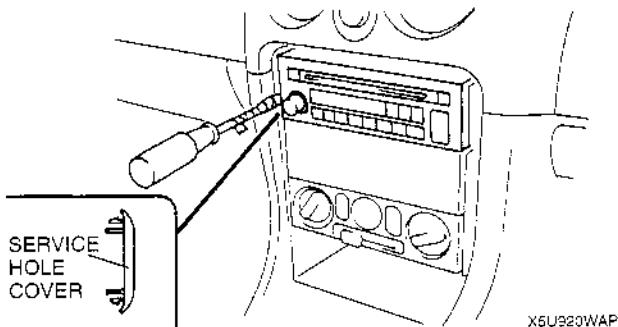


X5U920W08

7. If not as specified, replace the rear antenna feeder.

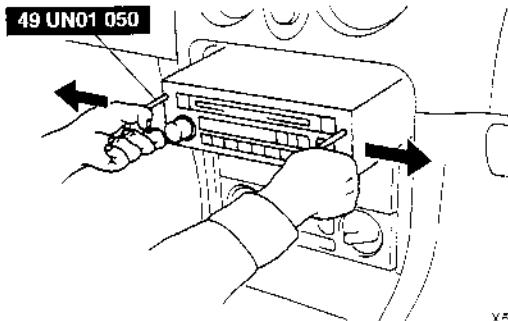
## AUDIO UNIT REMOVAL

1. Disconnect the negative battery cable.
2. Remove the service hole covers by inserting a small tape-wrapped flathead screwdriver into the slot and carefully pry them off without scratching the center panel. Pry up and pull off the service hole covers carefully to prevent the posts from breaking off.



X5U920W17

3. With the beveled parts of the **SST** (Removing tool) facing inward, insert them into the unit.
4. Pull the **SST** (Removing tool) outward and forward to slide out the unit.



X5U920WAQ

5. Disconnect the connectors and antenna jack.

## AUDIO UNIT INSTALLATION

**Caution**

- Make certain that the wiring harness and antenna feeder are not caught between the unit and dashboard. If the harness or the antenna feeder is caught between the unit and dashboard, it may become the cause of trouble or malfunctions.
- To install the audio unit, be sure to push the service hole cover areas on both sides of the audio unit. If the switches are pressed instead, it may become the cause of trouble or malfunctions.

X5U920W18

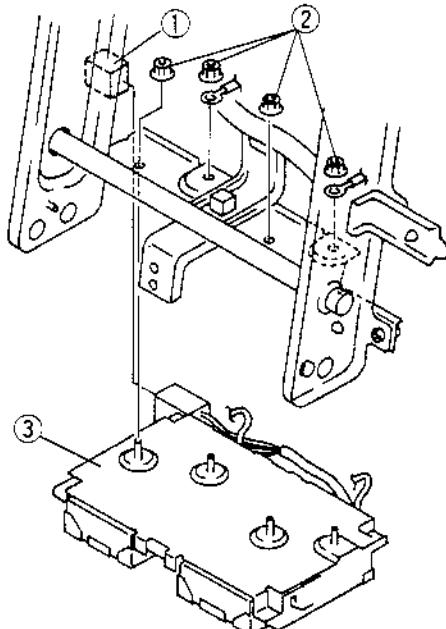
1. Connect the connectors and antenna jack.
2. Insert the unit until each clip clicks.
3. Install the service hole covers.
4. Connect the negative battery cable.

## AUDIO AMPLIFIER REMOVAL/INSTALLATION

X5U920W16

1. Disconnect the negative battery cable.
2. Remove the dashboard. (Refer to 09-17 DASHBOARD REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.

1	Audio amplifier connector
2	Nut
3	Audio amplifier

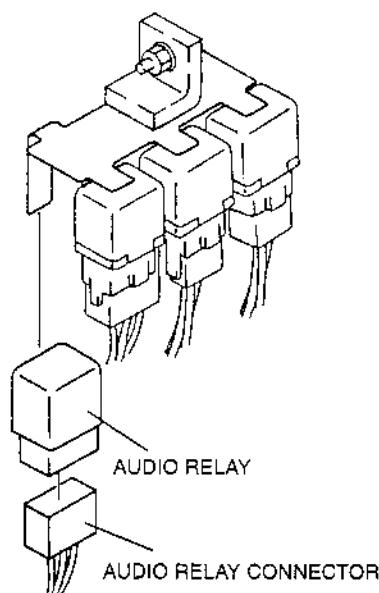


X5U920WAN

## AUDIO RELAY REMOVAL/INSTALLATION

X5U920W19

1. Disconnect the negative battery cable.
2. Remove the center lower panel. (Refer to 09-17 CENTER LOWER PANEL REMOVAL/INSTALLATION.)
3. Disconnect the audio relay connector.
4. Remove the audio relay.
5. Install in the reverse order of removal.



X5U920WAR

# ENTERTAINMENT

## AUDIO RELAY INSPECTION

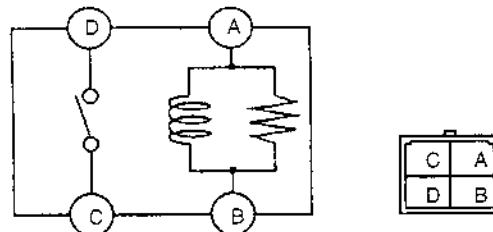
X5U920W20

1. Remove the audio relay. (Refer to 09-20 AUDIO RELAY REMOVAL/INSTALLATION.)
2. Inspect for continuity between the audio relay terminals by using an ohmmeter.

— : Continuity

Step	Terminal			
	A	B	C	D
1	—	—	—	—
2	B+	GND	—	—

X5U920WAS



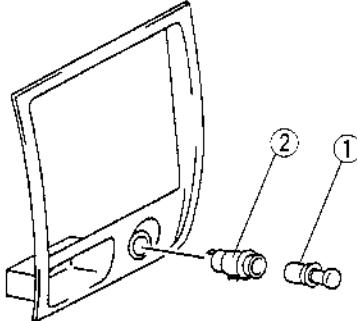
X5U920WAT

3. If not as specified, replace the audio relay.

## CIGARETTE LIGHTER REMOVAL/INSTALLATION

X5U920W22

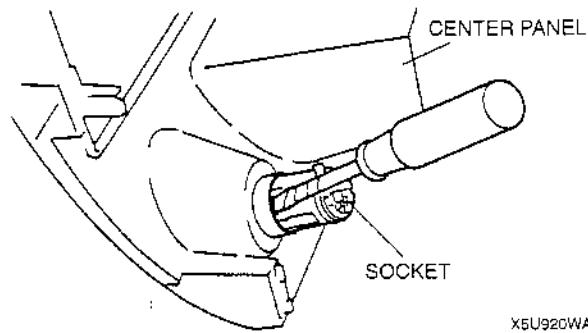
1. Disconnect the negative battery cable.
2. Remove the center panel. (Refer to 09-17 CENTER PANEL REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.



X5U920WAV

### Socket Removal Note

1. Pry up the stopper with the tape-wrapped flathead screwdriver.
2. Pull the socket while prying up the stopper.



X5U920WAW

1	Cigarette lighter plug
2	Socket ☞ Removal Note

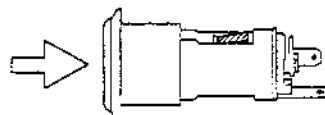
## CIGARETTE LIGHTER INSPECTION

X5U920W21

### Note

- Verify that the cigarette lighter plug will move normally within **20–30 seconds**, after pressing the plug into the socket. If the fuse does not move, perform the following procedures.

1. Remove the socket. (Refer to 09-20 CIGARETTE LIGHTER REMOVAL/INSTALLATION.)
2. Verify the bimetals in the socket are not warped.
3. Inspect if the backs of the bimetals can be seen from the inside or outside.



NORMAL

DEFECTIVE



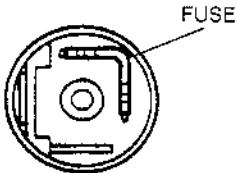
BIMETAL BACK

X5U920WAU

## **ENTERTAINMENT**

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4. If the back of the bimetal can be seen from the inside, replace the socket.
5. If the fuse has been burnt, replace the socket.
6. If the bimetal and the socket are normal, replace the cigarette lighter plug.



X5U920WAX

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## 09-21 POWER SYSTEMS

FUSE SERVICE CAUTION .....	09-21-1
MAIN FUSE	
REMOVAL/INSTALLATION .....	09-21-1
ROOM FUSE INSTALLATION .....	09-21-2
IGNITION SWITCH	
REMOVAL/INSTALLATION .....	09-21-2

IGNITION SWITCH INSPECTION .....	09-21-2
KEY REMINDER SWITCH	
INSPECTION .....	09-21-3

## FUSE SERVICE CAUTION

X5U921W01

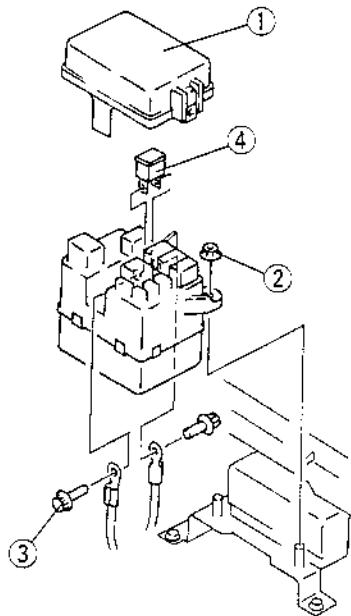
## Caution

- Determine and correct the cause of the burnt fuse before replacing it. If the fuse is replaced before doing this, it may burn again.

## MAIN FUSE REMOVAL/INSTALLATION

X5U921W02

- Disconnect the negative battery cable.
- Remove in the order indicated in the table.
- Install in the reverse order of removal.



1	Main fuse block cover
2	Nut
3	Bolt
4	Main fuse

X5U921WA0

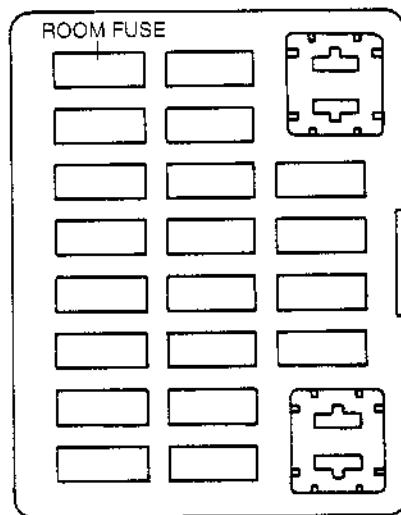
## ROOM FUSE INSTALLATION

X5U921WC3

**Note**

- When the ROOM fuse is burnt or removed, the malfunction indicator lamp illuminates. If the ROOM fuse is replaced or installed with the ignition switch at ON, the malfunction indicator lamp will continue to illuminate.

- Turn the ignition switch to LOCK.
- Install the ROOM fuse.

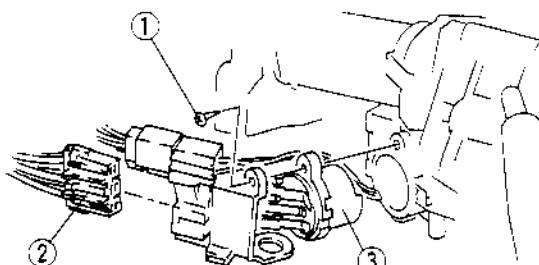


X5U921WA1

## IGNITION SWITCH REMOVAL/INSTALLATION

X5U921W04

- Disconnect the negative battery cable.
- Remove the column cover. (Refer to 09-17 COLUMN COVER REMOVAL/INSTALLATION.)
- Remove in the order indicated in the table.
- Install in the reverse order of removal.



X5U921WA2

1	Screw
2	Ignition switch connector
3	Ignition switch

## IGNITION SWITCH INSPECTION

X5U921W05

- Remove the column cover. (Refer to 09-17 COLUMN COVER REMOVAL/INSTALLATION.)
- Disconnect the ignition switch connector.
- Inspect for continuity between the ignition switch terminals by using an ohmmeter.

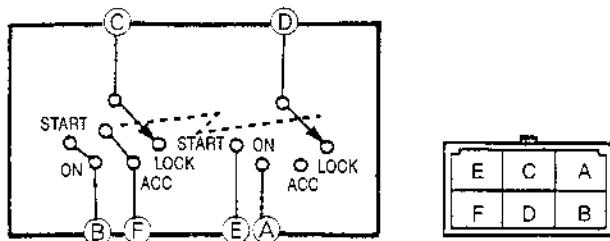
Key position	Terminal					
	A	B	C	D	E	F
LOCK						
ACC			○			○
ON	○	○	○	○		○
START	○	○	○	○	○	

X5U921WA3

## POWER SYSTEMS

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4. If not as specified, replace the ignition switch.



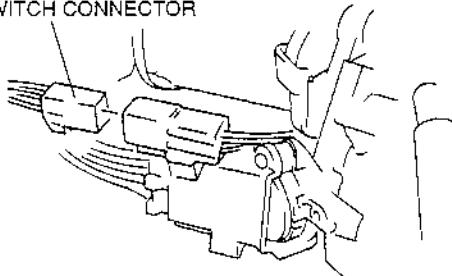
X5U921WA4

### KEY REMINDER SWITCH INSPECTION

X5U921W06

1. Remove the column cover. (Refer to 09-17 COLUMN COVER REMOVAL/INSTALLATION.)
2. Disconnect the key reminder switch connector.

KEY REMINDER  
SWITCH CONNECTOR



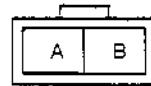
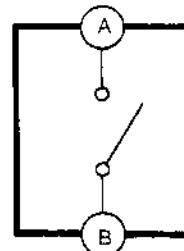
X5U921WA5

3. Inspect for continuity between the key reminder switch terminals by using an ohmmeter.

— : Continuity

Key condition	Terminal	
	A	B
Key inserted		
Key removed		

X5U921WA6



X5U921WA7

4. If not as specified, replace the steering lock. (Refer to 06-10 STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.)

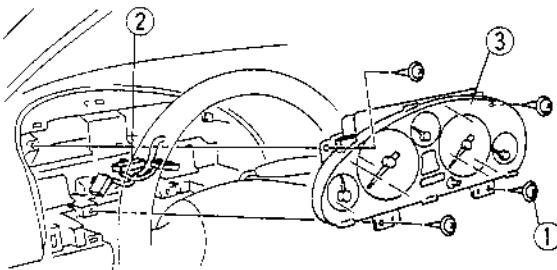
**09-22 INSTRUMENTATION/DRIVER INFO.**

INSTRUMENT CLUSTER	
REMOVAL/INSTALLATION .....	09-22-1
INSTRUMENT CLUSTER	
DISASSEMBLY/ASSEMBLY .....	09-22-1
INSTRUMENT CLUSTER INSPECTION .....	09-22-2
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Tachometer .....	09-22-2
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Oil Pressure Gauge .....	09-22-3
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HORN RELAY INSPECTION .....	09-22-7

**INSTRUMENT CLUSTER REMOVAL/INSTALLATION**

X5U922W01

1. Disconnect the negative battery cable.
2. Remove the meter hood. (Refer to 09-17 METER HOOD REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.



X5U922WA0

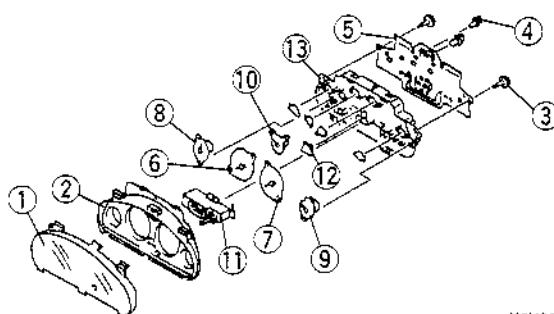
**INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY**

X5U922W02

**Caution**

- If the instrument cluster is dropped or damaged, the system will not operate properly and it may become the cause of trouble or malfunction.

1. Disassemble in the order indicated in the table.
2. Assemble in the reverse order of disassembly.



X5U922WA1

1	Front glass
2	Window plate
3	Screw
4	Bulb
5	Print plate
6	Tachometer
7	Speedometer
8	Fuel gauge
9	Water temperature gauge
10	Oil pressure gauge
11	Odometer/tripmeter
12	Warning plate
13	Case

# INSTRUMENT/DRIVER INFO.

## INSTRUMENT CLUSTER INSPECTION

### Speedometer

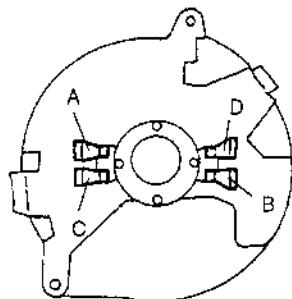
1. Remove the speedometer. (Refer to 09-22 INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY.)
2. Measure the resistance between the speedometer terminals by using an ohmmeter.

O-W-O : Resistance

Step	Terminal			
	A	B	C	D
1	O—W—O			: R
2			O—W—O : R	

R: 136—184  $\Omega$

X5U922WA2



X5U922WA3

3. If not as specified, replace the speedometer. (Refer to 09-22 INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY.)

### Tachometer

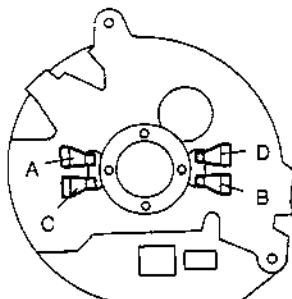
1. Remove the tachometer. (Refer to 09-22 INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY.)
2. Measure the resistance between the tachometer terminals by using an ohmmeter.

O-W-O : Resistance

Step	Terminal			
	A	B	C	D
1	O—W—O			: R
2			O—W—O : R	

R: 136—184  $\Omega$

X5U922WA4



X5U922WA5

3. If not as specified, replace the tachometer. (Refer to 09-22 INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY.)

### Fuel Gauge

1. Remove the fuel gauge. (Refer to 09-22 INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY.)
2. Measure the resistance between the fuel gauge terminals by using an ohmmeter.

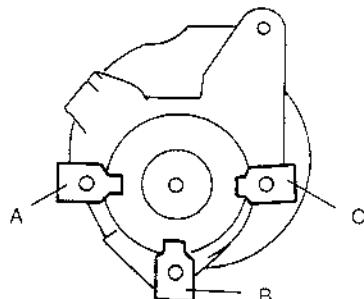
O-W-O : Resistance

Step	Terminal		
	A	B	C
1	O—W—O		: R <sub>1</sub>
2		O—W—O : R <sub>2</sub>	
3		O—W—O : R <sub>3</sub>	

R<sub>1</sub>: 110.7—135.3  $\Omega$  R<sub>2</sub>: 89.1—108.9  $\Omega$

R<sub>3</sub>: 199.8—244.2  $\Omega$

X5U922WA6



X5U922WA7

3. If not as specified, replace the fuel gauge. (Refer to 09-22 INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY.)

### Water Temperature Gauge

1. Remove the water temperature gauge. (Refer to 09-22 INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY.)
2. Measure the resistance between the water temperature gauge terminals by using an ohmmeter.

O-W-O : Resistance

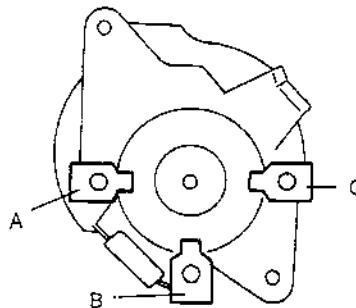
Step	Terminal		
	A	B	C
1	O—W—O		: R <sub>1</sub>
2		O—W—O : R <sub>2</sub>	
3		O—W—O : R <sub>3</sub>	

R<sub>1</sub>: 85.5—94.5  $\Omega$  R<sub>2</sub>: 247.5—302.5  $\Omega$

R<sub>3</sub>: 193.5—236.5  $\Omega$

X5U922WA8

## INSTRUMENT/DRIVER INFO.



X5U922WA9

3. If not as specified, replace the water temperature gauge. (Refer to 09-22 INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY.)

### Oil Pressure Gauge

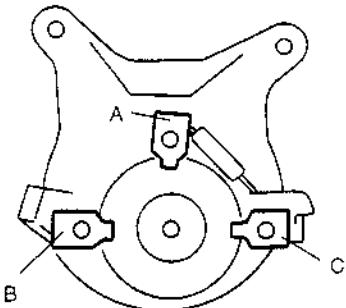
1. Remove the oil pressure gauge. (Refer to 09-22 INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY.)
2. Measure the resistance between the oil pressure gauge terminals by using an ohmmeter.

Step	Terminal		
	A	B	C
1	○—W—○		: R <sub>1</sub>
2		○—W—○	: R <sub>2</sub>
3	○—W—○		: R <sub>3</sub>

R<sub>1</sub>: 89.1—108.9 Ω    R<sub>2</sub>: 228.6—279.4 Ω

R<sub>3</sub>: 139.5—170.5 Ω

X5U922WAA



X5U922WAB

3. If not as specified, replace the oil pressure gauge. (Refer to 09-22 INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY.)

# INSTRUMENTATION/DRIVER INFO.

## INSTRUMENT CLUSTER INPUT/OUTPUT CHECK MODE

X5U922W09

### Note

- In this mode, it is possible to check the item in the following chart.

### Diagnostic Trouble Code Chart

DTC	Checking item
00	Transmission range switch
01	Seat belt switch
04	Door switch
08	TNS relay
14	Buzzer
31	Key reminder switch

### Note

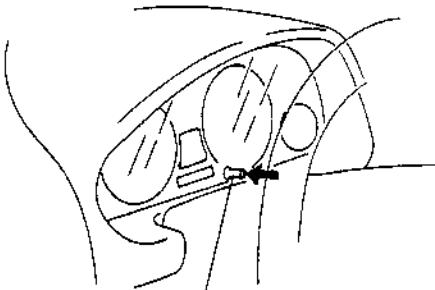
- Diagnostic trouble code which are not listed may be indicated, but they cannot be inspected.

### Operating Order

### Note

- Connect the negative battery cable after **30 seconds or more** have passed after disconnecting the cable, then operate the input/output check mode again after terminating the input/output check mode.

- Close the all doors.
- Disconnect the negative battery cable.
- Open the driver's side door.
- Connect the negative battery cable.
- Perform the following procedures within **30 seconds**, after connecting the negative battery cable.
  - Turn the ignition switch to ON.
  - Push the door switch 3 times.
  - Push the odometer/tripmeter switch 3 times.



ODOMETER/TRIPMETER SWITCH

x5U922WAH

### Checking Order

### Note

- The diagnostic trouble codes are displayed in numerical order. (While performing the inspection, if you want to inspect a diagnostic trouble code of which the number is smaller than the code number you are currently inspecting, terminate the check mode then repeat the inspection from the beginning.)
- If rotate the wheels, cancel the input/output check mode.

### Check Code 00—14

### Note

- The diagnostic trouble codes can be fast forward by pushing and holding the odometer/tripmeter switch for **1 second or more**.

- Push the odometer/tripmeter switch and select the diagnostic trouble code.
- Inspect each diagnostic trouble code by following the related inspection procedures. (Refer to Inspection of Diagnostic Trouble Codes.)

### Check Code 31

- Turn the ignition switch to ACC.
- Push the odometer/tripmeter switch and select the diagnostic trouble code.
- Inspect each diagnostic trouble code by following the related inspection procedures. (Refer to Inspection of Diagnostic Trouble Codes.)

### Cancel Order

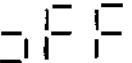
- Cancel the input/output check mode by turning the ignition switch to LOCK then back to ON.

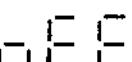
### Note

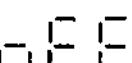
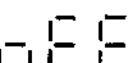
- Cancel the input/output check mode by leaving the instrument cluster in check mode for **approximately 45 minutes**.

## INSTRUMENTATION/DRIVER INFO.

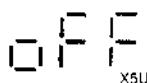
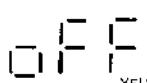
### Inspection of Diagnostic Trouble Codes

DTC 00 Transmission range switch (R range) signal			
STEP	INSPECTION	INDICATION	ACTION
1	Set the selector lever to R range.	 X5U922WAJ	Go to next step.
		 X5U922WAK	<ul style="list-style-type: none"> <li>• Check the transmission range switch.</li> <li>• Check the wiring harness. (Battery — transmission range switch — instrument cluster)</li> </ul>
2	Set the selector lever to another range except R range.	 X5U922WAL	<ul style="list-style-type: none"> <li>• Check the transmission range switch.</li> <li>• Check the wiring harness. (Battery — transmission range switch — instrument cluster)</li> </ul>
		 X5U922WAM	Input signal to instrument cluster is okay.

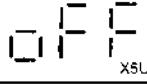
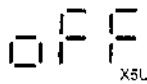
DTC 01 Seat belt switch on/off signal			
STEP	INSPECTION	INDICATION	ACTION
1	Pull the driver's side seat belt.	 X5U922WAN	<ul style="list-style-type: none"> <li>• Check the seat belt switch.</li> <li>• Check the wiring harness. (Instrument cluster — seat belt switch)</li> </ul>
		 X5U922WAP	Go to next step.
2	Release the driver's side seat belt.	 X5U922WAQ	Input signal to instrument cluster is okay.
		 X5U922WAR	<ul style="list-style-type: none"> <li>• Check the seat belt switch.</li> <li>• Check the wiring harness. (Instrument cluster — seat belt switch)</li> </ul>

DTC 04 Door switch on/off signal			
STEP	INSPECTION	INDICATION	ACTION
1	Open the driver's side door.	 X5U922WAS	Close the driver's side door, then go to next step.
		 X5U922WAT	<ul style="list-style-type: none"> <li>• Check the door switch.</li> <li>• Check the wiring harness. (Instrument cluster — door switch)</li> </ul>
2	Open the passenger's side door.	 X5U922WAU	Close the passenger's side door, then go to next step.
		 X5U922WAV	<ul style="list-style-type: none"> <li>• Check the door switch.</li> <li>• Check the wiring harness. (Instrument cluster — door switch)</li> </ul>
3	Close all doors.	 X5U922WAW	<ul style="list-style-type: none"> <li>• Check the door switch.</li> <li>• Check the wiring harness. (Instrument cluster — door switch)</li> </ul>
		 X5U922WAX	Input signal to instrument cluster is okay.

## INSTRUMENTATION/DRIVER INFO.

DTC 08 TNS relay on/off signal			
STEP	INSPECTION	INDICATION	ACTION
1	Turn the headlight switch to TNS position.	 XSU922WAY	Go to next step.
		 XSU922WAZ	<ul style="list-style-type: none"> <li>Check the TNS relay.</li> <li>Check the wiring harness. (Battery — TNS relay — instrument cluster)</li> </ul>
2	Turn the headlight switch to OFF.	 XSU922WB0	<ul style="list-style-type: none"> <li>Check the TNS relay.</li> <li>Check the wiring harness. (Battery — TNS relay — instrument cluster)</li> </ul>
		 XSU922WB1	Input signal to instrument cluster is okay.

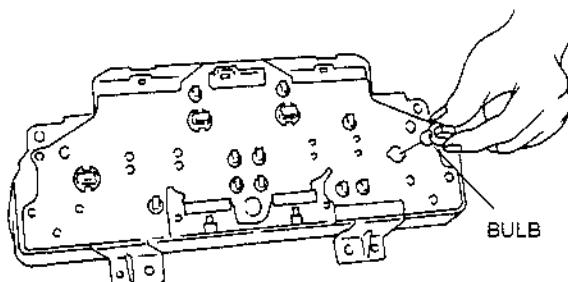
DTC 14 Operation signal to buzzer				
	INSPECTION	INDICATION	SITUATION	ACTION
Wait for 2 seconds after selecting DTC 14.		(No indication)	Buzzer continuously sounds.	Buzzer is okay.
			Buzzer does not continuously sound.	Replace the odometer/tripmeter.

DTC 31 Key reminder switch on/off signal			
STEP	INSPECTION	INDICATION	ACTION
1	Insert the key into steering lock.	 XSU922WB2	Go to next step.
		 XSU922WB3	<ul style="list-style-type: none"> <li>Check the key reminder switch.</li> <li>Check the wiring harness. (Battery — key reminder switch — instrument cluster)</li> </ul>
2	Remove the key from steering lock.	 XSU922WB4	<ul style="list-style-type: none"> <li>Check the key reminder switch.</li> <li>Check the wiring harness. (Battery — key reminder switch — instrument cluster)</li> </ul>
		 XSU922WB5	Input signal to instrument cluster is okay.

### WARNING AND INDICATOR LIGHT BULB REMOVAL/INSTALLATION

XSU922W04

- Disconnect the negative battery cable.
- Remove the instrument cluster. (Refer to 09-22 INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)
- Turn the socket counterclockwise to remove the bulb as shown in the figure.



XSU922WAC

- Install in the reverse order of removal.

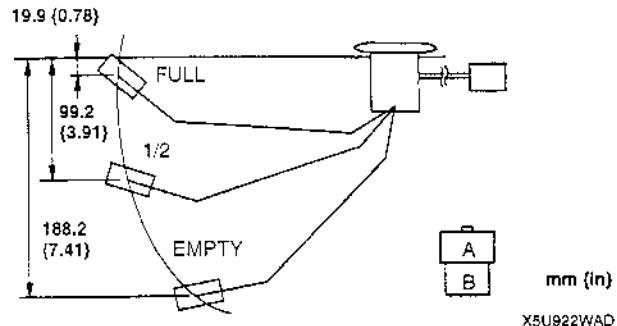
# INSTRUMENTATION/DRIVER INFO.

## FUEL GAUGE SENDER UNIT INSPECTION

X5U922W05

1. Remove the fuel pump. (Refer to 01-14 FUEL PUMP REMOVAL/INSTALLATION.)
2. Using an ohmmeter, measure and verify the resistance between the fuel gauge sender unit terminals as shown in the following chart while slowly moving the unit arm from empty to full.

Measuring point	Resistance ( $\Omega$ )
Full	6.4–7.6
1/2	31.8–33.2
Empty	93–97



X5U922WAD

3. If not as specified, replace the fuel gauge sender unit. (Refer to 01-14 FUEL PUMP REMOVAL/INSTALLATION.)

## OIL PRESSURE SWITCH INSPECTION

X5U922W06

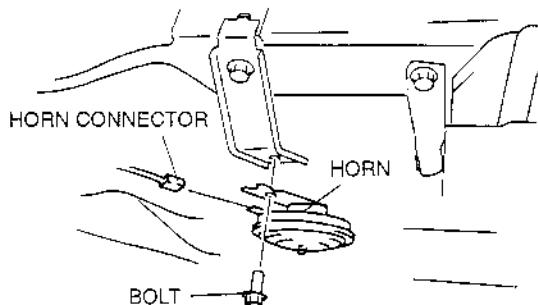
1. Verify that the oil pressure gauge needle moves to H when the engine is started.
2. Verify that the oil pressure gauge needle moves to L when the engine is stopped.
3. If the oil pressure gauge needle does not move, inspect the oil pressure gauge and related wiring harness.

4. If the oil pressure gauge and related wiring harness are normal, inspect the oil pressure. (Refer to 01-11 OIL PRESSURE INSPECTION.)
5. If the oil pressure is normal, replace the oil pressure switch. (Refer to 01-11 OIL PRESSURE INSPECTION.)

## HORN REMOVAL/INSTALLATION

X5U922W07

1. Disconnect the negative battery cable.
2. Remove the upper seal board.
3. Disconnect the horn connector.
4. Remove the bolt.
5. Remove the horn.



X5U922WAE

6. Install in the reverse order of removal.

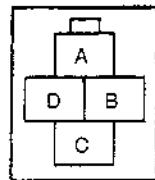
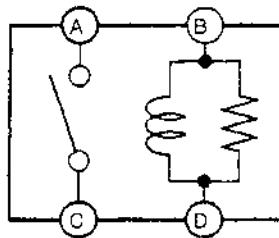
## HORN RELAY INSPECTION

X5U922W08

1. Remove the horn relay.
2. Inspect for continuity between the horn relay terminals by using an ohmmeter.

Step	Terminal			
	B	D	A	C
1	○	○		
2	B+	GND	○	○

X5U922WAF



X5U922WAG

3. If not as specified, replace the horn relay.

# TECHNICAL DATA

## 09-50 TECHNICAL DATA

09 BODY & ACCESSORIES ..... 09-50-1

### 09 BODY & ACCESSORIES

X5U95CW01

		Item	Specification
<b>LIGHTING SYSTEMS</b>			
Exterior light bulb capacity (W)	Headlight	60/55	
	Front turn light/parking light	27/8	
	Front side marker light	3.8	
	Rear turn light	21	
	Brake light/tailight	21/5	
	Back-up light	21	
	High-mount brake light	21	
	License plate light	5	
Interior light bulb capacity (W)	Interior light	8	
	Instrument cluster illumination	3.4, 1.4	
<b>INSTRUMENTATION/DRIVER INFO.</b>			
Warning and indicator light bulb capacity (W)	ABS warning light	1.4	
	Air bag system warning light	1.4	
	Brake system warning light	1.4	
	Cruise set indicator light	1.4	
	Generator warning light	1.4	
	High beam indicator light	1.4	
	HOLD indicator light	1.4	
	Malfunction indicator lamp	1.4	
	O/D OFF indicator light	1.4	
	Seat belt warning light	1.4	
	Turn indicator light	1.4	

## SERVICE TOOLS

### 09-60 SERVICE TOOLS

09 BODY & ACCESSORIES SST ..... 09-60-1

#### 09 BODY & ACCESSORIES SST

X5U960WC1

49 0305 870A Window Tool Set	 T0305870A	49 G050 1A0 Sealant Remover	 TG0501AOX	49 UN01 050 Removing tool	 TUN01050X
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