

BODY & ACCESSORIES

09
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09-02A ON-BOARD DIAGNOSTIC [POWER DOOR LOCK SYSTEM]

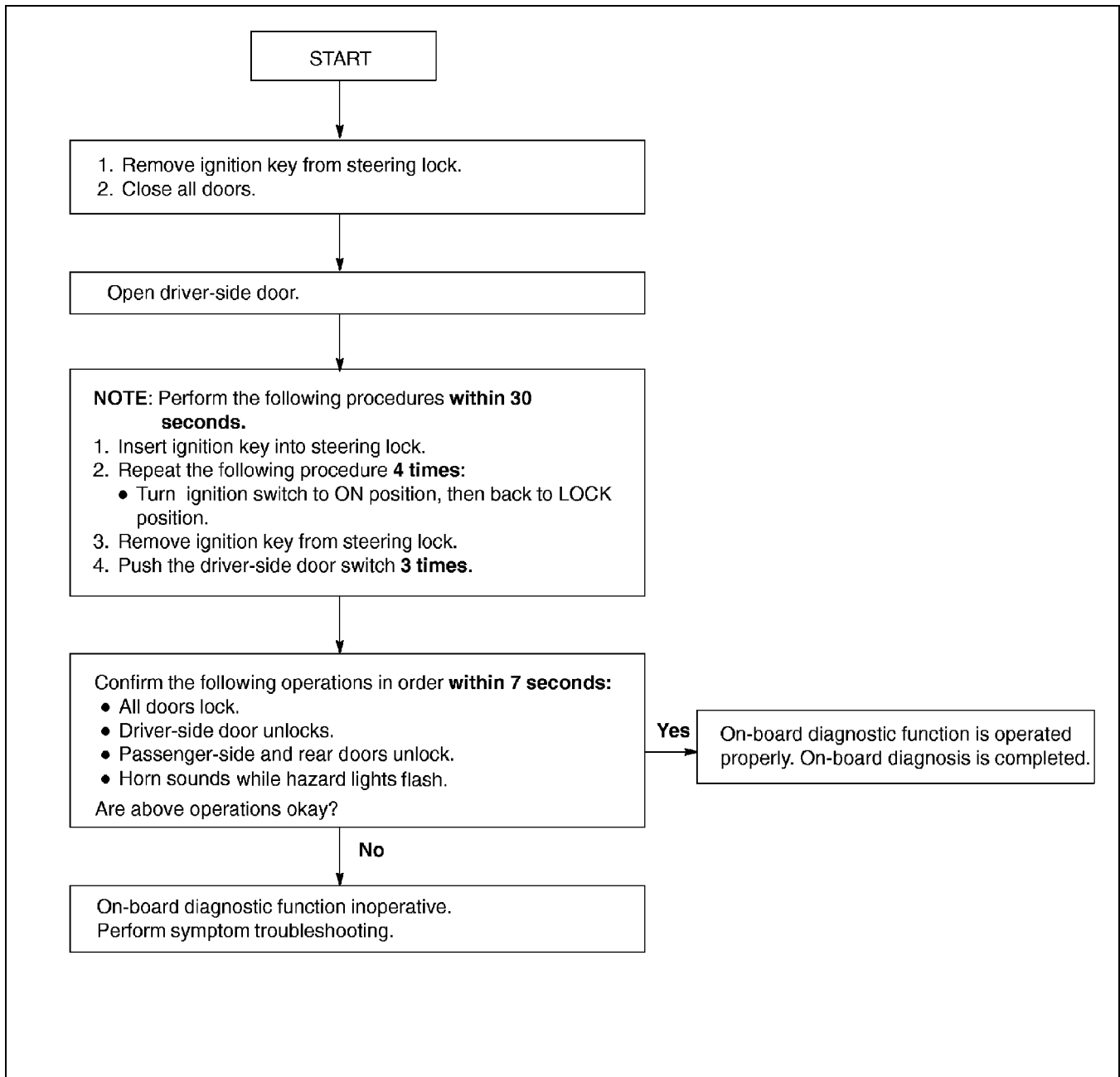
ON-BOARD DIAGNOSTIC FUNCTION [KEYLESS ENTRY SYSTEM]	09-02A-2
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09-02A

ON-BOARD DIAGNOSTIC [POWER DOOR LOCK SYSTEM]

ON-BOARD DIAGNOSTIC FUNCTION [KEYLESS ENTRY SYSTEM]

A3U090269000W01



Z3U0902W002

09-02B ON-BOARD DIAGNOSTIC [AUDIO]

STARTING PROCEDURE FOR ON-BOARD

DIAGNOSTIC TEST MODE. 09-02B-1

SUPPLIER IDENTIFICATION

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STARTING PROCEDURE FOR ON-BOARD DIAGNOSTIC TEST MODE

A3U090266900W01

Note

- All DTCs displayed in the on-board diagnostic test mode should be entered on the Audio Exchange Order Form.

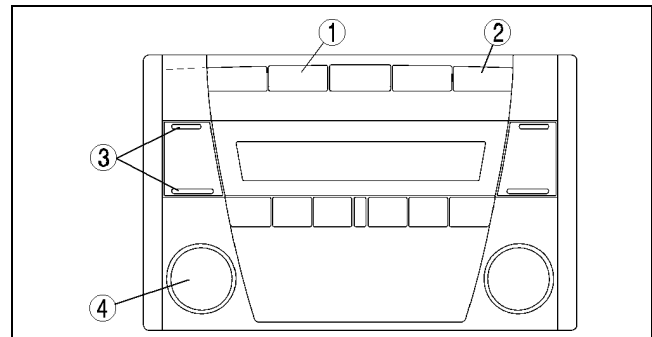
- Turn the ignition switch to the ACC or ON position.
- First press the POWER button and hold it, then press the AM button and CLOCK button for **2 seconds or more**.

1	AM button
2	CLOCK button
3	SEEK button
4	POWER button

Note

- If several DTCs are in the memory, they can be displayed by the SEEK button.

- To stop the on-board diagnostic test mode, turn the ignition switch to the LOCK position.



ZLU0920W102

SUPPLIER IDENTIFICATION PROCEDURE

A3U090266900W02

Note

- When asking the supplier (service center) for repair or replacement, verify which supplier the module belongs to and enter on the Audio Exchange Order Form. (See Warranty Bulletin Category AD, number 32.) Use the table and illustration below to determine the audio supplier.

09-02B

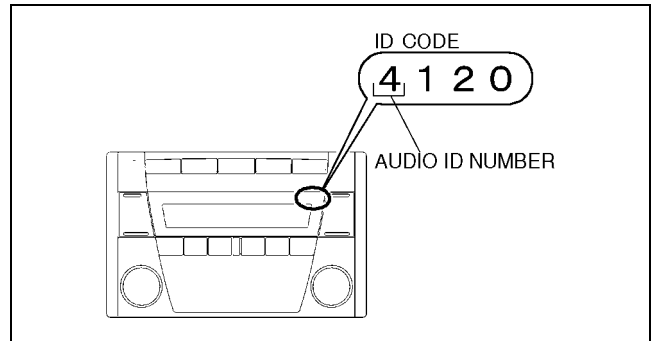
ON-BOARD DIAGNOSTIC [AUDIO]

Identification With Printed Numbers/Label

Base unit

- To identify the supplier name, compare the leftmost number of the ID code (4 digits), printed on the upper right corner of the LCD, with the table below.

Audio ID number	Supplier name
1	Panasonic
2	Clarion
4	FMS Audio



YLE8175W002

Upper/lower module

- Remove the audio unit.
- Verify the supplier name written on the label attached on each module.

Identification With On-board Diagnostic Test Mode

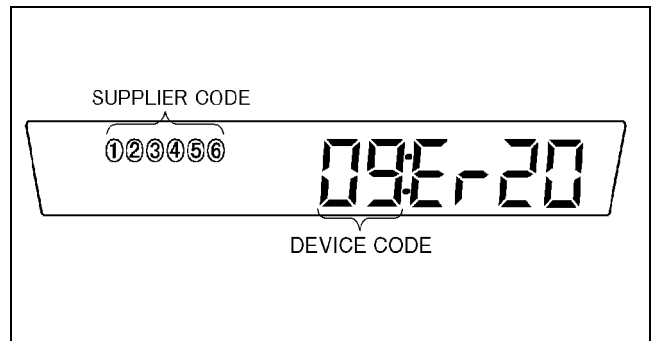
- Start the on-board diagnostic test mode.
- Verify the device code and supplier code displayed in the LCD.

Note

- When no DTCs are in the memory, device code and supplier codes will not be displayed.

Device code	Part name
00	Cassette deck (lower module)
03	CD player (upper module)
05	CD changer (external type)
06	CD changer (upper module)
07	MD player (lower module)
09	Base unit

Supplier code	Supplier name
1	FMS Audio
2	Panasonic
3	Clarion



Z3U0920W003

DTC CLEARING PROCEDURE

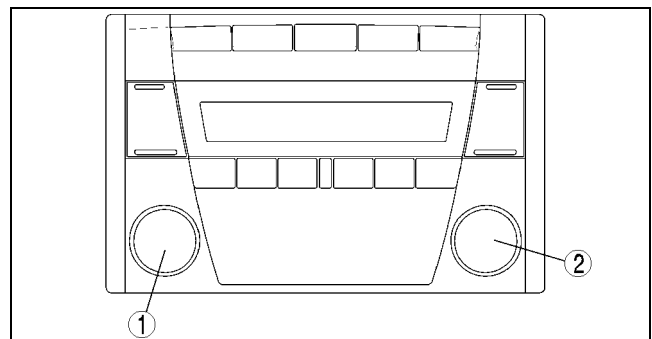
A3U090266900W03

- Start the on-board diagnostic test mode.
- First press the POWER button and hold it, then press AUDIO CONT button for **2 seconds or more**.

1	POWER button
2	AUDIO CONT button

Caution

- Before clearing the DTCs, be sure to enter all of them displayed in the on-board diagnostic test mode on the Audio Exchange Order Form.



YLE8175W004

- To stop the on-board diagnostic test mode, turn the ignition switch to the LOCK position.

ON-BOARD DIAGNOSTIC [AUDIO]

DTC TABLE

A3U090266900W04

Screen display		Malfunction location	Page
DTC	Output signal		
09:Er22	—	Base unit (peripheral circuit)	(See 09-02B-3 DTC 09:ER22)
09:Er20	—	Power supply circuit of base unit	(See 09-02B-4 DTC 09:ER20)
00:Er10	—	Cassette deck—base unit communication line	(See 09-02B-5 DTC 00:ER10)
03:Er10	—	CD player—base unit communication line	(See 09-02B-5 DTC 03:ER10)
05:Er10	—	CD changer (external type)—base unit communication line	(See 09-02B-6 DTC 05:ER10)
06:Er10	—	CD changer (upper module)—base unit communication line	(See 09-02B-6 DTC 06:ER10)
07:Er10	—	MD player—base unit communication line	(See 09-02B-7 DTC 07:ER10)
03:Er01	—	CD player	(See 09-02B-7 DTC 03:ER01)
03:Er02	CHECK*1 CD*2	CD player	(See 09-02B-8 DTC 03:ER02)
03:Er07	CHECK*1 CD*2	CD player	(See 09-02B-8 DTC 03:ER07)
00:Er01	—	Cassette deck	(See 09-02B-9 DTC 00:ER01)
00:Er03	—	Cassette deck	(See 09-02B-9 DTC 00:ER03)
00:Er04	CHECK*1 TAPE*2	Cassette tape	(See 09-02B-9 DTC 00:ER04)
05:Er01	—	CD changer (external type)	(See 09-02B-10 DTC 05:ER01)
05:Er07	CHECK*1 CD*2	CD changer (external type)	(See 09-02B-10 DTC 05:ER07)
06:Er01	—	CD changer (upper module)	(See 09-02B-11 DTC 06:ER01)
06:Er02	CHECK*1 CD*2	CD changer (upper module)	(See 09-02B-11 DTC 06:ER02)
06:Er07	CHECK*1 CD*2	CD changer (upper module)	(See 09-02B-12 DTC 06:ER07)
07:Er01	—	MD player	(See 09-02B-12 DTC 07:ER01)
07:Er02	CHECK*1 MD*2	MD player	(See 09-02B-13 DTC 07:ER02)
07:Er07	CHECK*1 MD*2	MD player	(See 09-02B-13 DTC 07:ER07)
no Err	—	No stored DTCs	—

*1,*2: When an error occurs, the error messages are displayed three times in the order of *1 and *2, respectively.

DTC 09:ER22

A3U090266900W05

DTC 09:Er22	Base unit (peripheral circuit)
DETECTION CONDITION	<ul style="list-style-type: none"> Base unit detects malfunction in its inner circuit (related to tuner).
POSSIBLE CAUSE	<ul style="list-style-type: none"> Base unit malfunction

Diagnostic procedure

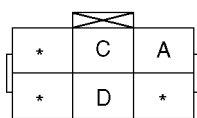
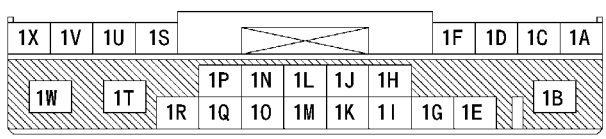
INSPECTION		ACTION
INSPECT BASE UNIT <ul style="list-style-type: none"> Clear DTC. Turn on radio and operate it for 3 seconds or more. Start on-board diagnostic test mode. Is DTC 09:Er22 displayed? 	Yes	Replace base unit.
	No	Troubleshooting completed.

09-02B

ON-BOARD DIAGNOSTIC [AUDIO]

DTC 09:Er20

A3U090266900W06

DTC 09:Er20	Power supply circuit of base unit
DETECTION CONDITION	<ul style="list-style-type: none"> Voltage detected at base unit terminals 1B and 1R is less than 8.5 V, or more than 16 V (must not be 16V).
POSSIBLE CAUSE	<ul style="list-style-type: none"> Weak battery Malfunction in wiring harness between battery and base unit
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>FUSE BLOCK CONNECTOR (JB-01)</p>  <p>HARNESS SIDE CONNECTOR (VIEW FROM HARNESS SIDE)</p> </div> <div style="text-align: center;"> <p>BASE UNIT CONNECTOR</p>  <p>HARNESS SIDE CONNECTOR (VIEW FROM HARNESS SIDE)</p> </div> </div>	

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	INSPECT BATTERY <ul style="list-style-type: none"> Turn headlights ON then OFF to remove surface charge. Measure battery voltage. Is voltage less than 8.5 V? 	Yes	Battery is weak. <ul style="list-style-type: none"> Inspect charge/discharge system.
		No	Go to next step.
2	INSPECT BATTERY <ul style="list-style-type: none"> Engine running. Measure battery voltage. Is voltage greater than 16 V? 	Yes	Battery is overcharging. <ul style="list-style-type: none"> Inspect charge/discharge system.
		No	Go to next step.
3	INSPECT WIRING HARNESS BETWEEN BATTERY AND FUSE BLOCK <ul style="list-style-type: none"> Measure voltage at fuse block connector (JB-01) terminals A and D. Is voltage 8.5 V —16 V? 	Yes	Go to next step.
		No	Repair wiring harness between battery and fuse block.
4	INSPECT WIRING HARNESS BETWEEN FUSE BLOCK AND BASE UNIT <ul style="list-style-type: none"> Measure voltage at base unit connector terminals 1B and 1R. Is voltage 8.5 V —16 V? 	Yes	Go to next step.
		No	Repair wiring harness between fuse block and base unit.
5	INSPECT BASE UNIT <ul style="list-style-type: none"> Clear DTC. Turn ignition switch to ACC or ON position and hold for 30 seconds or more. Start on-board diagnostic test mode. Is DTC 09:Er20 displayed? 	Yes	Replace base unit.
		No	Troubleshooting completed.

ON-BOARD DIAGNOSTIC [AUDIO]

DTC 00:Er10

A3U090266900W07

DTC 00:Er10	Cassette deck—base unit communication line
DETECTION CONDITION	<ul style="list-style-type: none"> • Base unit detects communication error with cassette deck (lower module).
POSSIBLE CAUSE	<ul style="list-style-type: none"> • Malfunction of connectors between base unit and cassette deck (lower module) • Cassette deck (lower module) malfunction • Base unit malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	INSPECT CONNECTOR <ul style="list-style-type: none"> • Remove cassette deck (lower module) and inspect connector for the following. <ul style="list-style-type: none"> — Deformation of pin — Poor connection of female terminal — Pinching of foreign material • Is connector okay? 	Yes Go to next step.
		No Repair connector, then go to next step.
2	VERIFY THAT CASSETTE DECK (LOWER MODULE) IS INSTALLED WITH BASE UNIT <ul style="list-style-type: none"> • Install cassette deck (lower module) and verify its installation condition. • Is cassette deck securely installed? 	Yes Go to next step.
		No Securely install cassette deck (lower module), then go to next step.
3	INSPECT CASSETTE DECK (LOWER MODULE) <ul style="list-style-type: none"> • Clear DTC. • Turn ignition switch to ACC or ON position and hold for 3 seconds or more. • Start on-board diagnostic test mode. • Is DTC 00:Er10 displayed? 	Yes Replace base unit and cassette deck (lower module).
		No Troubleshooting completed.

09-02B

DTC 03:Er10

A3U090266900W08

DTC 03:Er10	CD player—base unit communication line
DETECTION CONDITION	<ul style="list-style-type: none"> • Base unit detects communication error with CD player (upper module).
POSSIBLE CAUSE	<ul style="list-style-type: none"> • Malfunction of connectors between base unit and CD player (upper module) • CD player (upper module) malfunction • Base unit malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	INSPECT CONNECTOR <ul style="list-style-type: none"> • Remove CD player (upper module) and inspect connector for the following. <ul style="list-style-type: none"> — Deformation of pin — Poor connection of female terminal — Pinching of foreign material • Is connector okay? 	Yes Go to next step.
		No Repair connector, then go to next step.
2	VERIFY THAT CD PLAYER (UPPER MODULE) IS INSTALLED WITH BASE UNIT <ul style="list-style-type: none"> • Install CD player (upper module) and verify its installation condition. • Is CD player securely installed? 	Yes Go to next step.
		No Securely install CD player (upper module), then go to next step.
3	INSPECT CD PLAYER (UPPER MODULE) <ul style="list-style-type: none"> • Clear DTC. • Turn ignition switch to ACC or ON position and wait for 3 seconds or more. • Start on-board diagnostic test mode. • Is DTC 03:Er10 displayed? 	Yes Replace base unit and CD player (upper module).
		No Troubleshooting completed.

ON-BOARD DIAGNOSTIC [AUDIO]

DTC 05:ER10

A3U090266900W09

DTC 05:Er10	CD changer—base unit communication line
DETECTION CONDITION	<ul style="list-style-type: none"> Base unit detects communication error with CD changer (external type)
POSSIBLE CAUSE	<ul style="list-style-type: none"> Malfunction of connectors between base unit and CD changer (external type) CD changer (external type) malfunction Base unit malfunction

Diagnostic procedure

STEP	INSPECTION		ACTION
1	INSPECT CONNECTOR <ul style="list-style-type: none"> Inspect base unit and CD changer (external type) connectors for connection. Are connectors securely connected? 	Yes	Go to next step.
		No	Reconnect connector, then go to next step.
2	INSPECT WIRING HARNESS BETWEEN CD CHANGER (EXTERNAL TYPE) AND BASE UNIT <ul style="list-style-type: none"> Inspect wiring harness between base unit and CD changer (external type). Is wiring harness okay? 	Yes	Go to next step.
		No	Securely install CD changer (external type), then go to next step.
3	INSPECT CD CHANGER (EXTERNAL TYPE) <ul style="list-style-type: none"> Clear DTC. Turn ignition switch to ACC or ON position and wait for 3 seconds or more. Start on-board diagnostic test mode. Is DTC 05:Er10 displayed? 	Yes	Replace base unit and CD changer (external type).
		No	Troubleshooting completed.

DTC 06:ER10

A3U090266900W10

DTC 06:Er10	CD changer—base unit communication line
DETECTION CONDITION	<ul style="list-style-type: none"> Base unit detects communication error with CD changer (upper module)
POSSIBLE CAUSE	<ul style="list-style-type: none"> Malfunction of connectors between base unit and CD changer (upper module) CD changer (upper module) malfunction Base unit malfunction

Diagnostic procedure

STEP	INSPECTION		ACTION
1	INSPECT CONNECTOR <ul style="list-style-type: none"> Remove CD changer (upper module) and inspect connector for the following. <ul style="list-style-type: none"> Deformation of pin Poor connection of female terminal Pinching of foreign material Is connector okay? 	Yes	Go to next step.
		No	Repair connector, then go to next step.
2	VERIFY THAT CD CHANGER (UPPER MODULE) IS INSTALLED WITH BASE UNIT <ul style="list-style-type: none"> Install CD changer (upper module) and verify its installation condition. Is CD changer (upper module) securely installed? 	Yes	Go to next step.
		No	Securely install CD changer (upper module), then go to next step.
3	INSPECT CD CHANGER (UPPER MODULE) <ul style="list-style-type: none"> Clear DTC. Turn ignition switch to ACC or ON position and wait for 3 seconds or more. Start on-board diagnostic test mode. Is DTC 06:Er10 displayed? 	Yes	Replace base unit and CD changer (upper module).
		No	Troubleshooting completed.

ON-BOARD DIAGNOSTIC [AUDIO]

DTC 07:Er10

A3U090266900W11

DTC 07:Er10	MD player—base unit communication line
DETECTION CONDITION	<ul style="list-style-type: none"> Base unit detects communication error with MD player (lower module)
POSSIBLE CAUSE	<ul style="list-style-type: none"> Malfunction of connectors between base unit and MD player (lower module) MD player (lower module) malfunction Base unit malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	INSPECT CONNECTOR <ul style="list-style-type: none"> Remove MD player (lower module) and inspect connector for the following. <ul style="list-style-type: none"> Deformation of pin Poor connection of female terminal Pinching of foreign material Is connector okay? 	Yes	Go to next step.
		No	Repair connector, then go to next step.
2	VERIFY THAT MD PLAYER (LOWER MODULE) IS INSTALLED WITH BASE UNIT <ul style="list-style-type: none"> Install MD player (lower module) and verify its installation condition. Is MD player (lower module) securely installed? 	Yes	Go to next step.
		No	Securely install MD player (lower module), then go to next step.
3	INSPECT MD PLAYER (LOWER MODULE) <ul style="list-style-type: none"> Clear DTC. Turn ignition switch to ACC or ON position and wait for 3 seconds or more. Start on-board diagnostic test mode. Is DTC 07:Er10 displayed? 	Yes	Replace base unit and MD player (lower module).
		No	Troubleshooting completed.

09-02B

DTC 03:Er01

A3U090266900W12

DTC 03:Er01	CD player (upper module)
DETECTION CONDITION	<ul style="list-style-type: none"> CD player (upper module) cannot perform insert and eject commands.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Defective CD (broken or foreign material stuck/attached) CD player (upper module) malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	<ul style="list-style-type: none"> Is CD able to be ejected? 	Yes	Go to next step.
		No	Replace CD player (upper module).
2	INSPECT CD <ul style="list-style-type: none"> Inspect condition of CD where error has occurred. Is CD okay? <p>Note</p> <ul style="list-style-type: none"> In some cases, not all CD-R/CD-RW will play. 	Yes	Go to next step.
		No	Repair (remove foreign material) or replace CD, then go to next step.
3	INSPECT CD PLAYER (UPPER MODULE) <ul style="list-style-type: none"> Clear DTC. Insert and eject CD with no defect. Start on-board diagnostic test mode. Is DTC 03:Er01 displayed? 	Yes	Replace CD player (upper module).
		No	Troubleshooting completed.

ON-BOARD DIAGNOSTIC [AUDIO]

DTC 03:ER02

A3U090266900W13

DTC 03:Er02	CD player (upper module)
DETECTION CONDITION	<p>Note</p> <ul style="list-style-type: none"> When error occurs, error message "CHECK CD" is displayed in the LCD. Cannot play CD normally or change tracks.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Defective CD (scratches or dirt) CD player (upper module) malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION		
1	VERIFY WHETHER MALFUNCTION IS IN CD PLAYER (UPPER MODULE) OR CD <ul style="list-style-type: none"> Play CD and select other song (change tracks). Does CD player change tracks? 	Yes	Go to Step 3.	
		No	Not able to change particular tracks.	Go to next step.
			Not able to change any tracks.	Change CD and perform tracks-change again. <ul style="list-style-type: none"> If CD player changes tracks, then go to Step 3. If not, replace CD player (upper module).
2	INSPECT CD <ul style="list-style-type: none"> Inspect condition of CD where error has occurred. Is CD okay? <p>Note</p> <ul style="list-style-type: none"> In some cases, not all CD-R/CD-RW will play. 	Yes	Go to next step.	
		No	Repair (remove foreign material) or replace CD, then go to next step.	
3	INSPECT CD PLAYER (UPPER MODULE) <ul style="list-style-type: none"> Clear DTC. Play CD and select other song (change tracks). Start on-board diagnostic test mode. Is DTC 03:Er02 displayed? 	Yes	Replace CD player (upper module).	
		No	Troubleshooting completed.	

DTC 03:ER07

A3U090266900W14

DTC 03:Er07	CD player (upper module)
DETECTION CONDITION	<p>Note</p> <ul style="list-style-type: none"> When error occurs, error message "CHECK CD" is displayed in the LCD. Base unit detects CD reading error.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Defective CD (scratches or dirt) CD player (upper module) malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	INSPECT CD <ul style="list-style-type: none"> Inspect condition of CD where error has occurred. Is CD okay? <p>Note</p> <ul style="list-style-type: none"> In some cases, not all CD-R/CD-RW will play. 	Yes	Go to next step.
		No	Repair (remove foreign material) or replace CD, then go to next step.
2	INSPECT CD PLAYER (UPPER MODULE) <ul style="list-style-type: none"> Clear DTC. Insert and play CD with no defect. Start on-board diagnostic test mode. Is DTC 03:Er07 displayed? 	Yes	Replace CD player (upper module).
		No	Troubleshooting completed.

ON-BOARD DIAGNOSTIC [AUDIO]

DTC 00:Er01

A3U090266900W15

DTC 00:Er01	Cassette deck (lower module)
DETECTION CONDITION	<ul style="list-style-type: none"> Cassette deck (lower module) cannot perform insert and eject commands.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Defective cassette tape (deformation, broken, or foreign material stuck/attached) Cassette deck (lower module) malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	<ul style="list-style-type: none"> Is cassette tape able to be ejected? 	Yes Go to next step.
		No Replace cassette deck (lower module).
2	INSPECT CASSETTE TAPE <ul style="list-style-type: none"> Inspect condition of cassette tape where error has occurred. Is cassette tape okay? 	Yes Go to next step.
		No Repair (remove foreign material) or replace cassette tape, then go to next step.
3	INSPECT CASSETTE DECK (LOWER MODULE) <ul style="list-style-type: none"> Clear DTC. Insert and eject cassette tape with no defect. Start on-board diagnostic test mode. Is DTC 00:Er01 displayed? 	Yes Replace cassette deck (lower module).
		No Troubleshooting completed.

DTC 00:Er03

A3U090266900W16

DTC 00:Er03	Cassette deck (lower module)
DETECTION CONDITION	<ul style="list-style-type: none"> Base unit detects that reel built into cassette deck does not operate.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Defective cassette tape (tape slack, pinched tape in internal cassette deck) Cassette deck (lower module) malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	INSPECT CASSETTE TAPE <ul style="list-style-type: none"> Inspect condition of cassette tape where error has occurred. Is cassette tape okay? 	Yes Go to next step.
		No Repair (remove tape slack or repair pinched tape) or replace cassette tape, then go to next step.
2	INSPECT CASSETTE DECK (LOWER MODULE) <ul style="list-style-type: none"> Clear DTC. Insert cassette tape with no defect. Play cassette tape for 20 seconds or more. Start on-board diagnostic test mode. Is DTC 00:Er03 displayed? 	Yes Replace cassette deck (lower module).
		No Troubleshooting completed.

DTC 00:Er04

A3U090266900W17

DTC 00:Er04	Cassette tape
DETECTION CONDITION	<p>Note</p> <ul style="list-style-type: none"> When error occurs, error message "CHECK TAPE" is displayed in the LCD. <ul style="list-style-type: none"> Cassette tape is worn out.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Tape wear Cassette deck (lower module) malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	INSPECT CASSETTE TAPE <ul style="list-style-type: none"> Inspect condition of cassette tape where error has occurred. Is cassette tape okay? 	Yes Go to next step.
		No Replace cassette tape, then go to next step.
2	INSPECT CASSETTE DECK (LOWER MODULE) <ul style="list-style-type: none"> Clear DTC. Insert cassette tape with no defect. Play cassette tape for 20 seconds or more. Start on-board diagnostic test mode. Is DTC 00:Er04 displayed? 	Yes Replace cassette deck (lower module).
		No Troubleshooting completed.

ON-BOARD DIAGNOSTIC [AUDIO]

DTC 05:ER01

A3U090266900W18

DTC 05:Er01	CD changer (external type)
DETECTION CONDITION	<ul style="list-style-type: none"> Changer function does not operate.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Defective CD (broken or foreign material) Magazine malfunction CD changer (external type) malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	VERIFY WHETHER MALFUNCTION IS IN CD CHANGER OR OTHER PARTS <ul style="list-style-type: none"> Operate changer function. Is function okay? 	Yes	Go to Step 4.
		No	Not able to change particular CD.
	Not able to change any CD.		Go to Step 3.
2	INSPECT CD <ul style="list-style-type: none"> Inspect condition of CD where error has occurred. Is CD okay? <p>Note</p> <ul style="list-style-type: none"> In some cases, not all CD-R/CD-RW will play. 	Yes	Go to next step.
		No	Repair (remove foreign material) or replace CD, then go to next step.
3	INSPECT MAGAZINE <ul style="list-style-type: none"> Inspect magazine. Is magazine okay? 	Yes	Go to next step.
		No	Repair or replace magazine, then go to next step.
4	INSPECT CD CHANGER (EXTERNAL TYPE) <ul style="list-style-type: none"> Clear DTC. Operate changer. Start on-board diagnostic test mode. Is DTC 05:Er01 displayed? 	Yes	Replace CD changer (external type).
		No	Troubleshooting completed.

DTC 05:ER07

A3U090266900W19

DTC 05:Er07	CD changer (external type)
DETECTION CONDITION	<p>Note</p> <ul style="list-style-type: none"> When error occurs, error message "CHECK CD" is displayed in the LCD. Base unit detects CD reading error.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Defective CD (scratches or dirt) CD changer (external type) malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION		
1	VERIFY WHETHER MALFUNCTION IS IN CD CHANGER OR OTHER PARTS <ul style="list-style-type: none"> Play all CD in magazine. Is CD changer able to read them properly? 	Yes	Go to Step 3.	
		No	Not able to change particular CD.	Go to next step.
			Not able to change any CD.	Go to Step 3.
2	INSPECT CD <ul style="list-style-type: none"> Inspect condition of CD where error has occurred. Is CD okay? <p>Note</p> <ul style="list-style-type: none"> In some cases, not all CD-R/CD-RW will play. 	Yes	Go to next step.	
		No	Repair (remove foreign material) or replace CD, then go to next step.	
3	INSPECT CD CHANGER (EXTERNAL TYPE) <ul style="list-style-type: none"> Clear DTC. Insert and play CD with no defect. Start on-board diagnostic test mode. Is DTC 05:Er07 displayed? 	Yes	Replace CD changer (external type).	
		No	Troubleshooting completed.	

ON-BOARD DIAGNOSTIC [AUDIO]

DTC 06:ER01

A3U090266900W20

DTC 06:Er01	CD changer (upper module)
DETECTION CONDITION	<ul style="list-style-type: none"> CD changer (upper module) cannot perform insert, eject, and disc change commands.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Defective CD (broken or foreign material stuck/attached) CD changer (upper module) malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	<ul style="list-style-type: none"> Is CD able to be ejected? 	Yes	Go to next step.
		No	Replace CD changer (upper module).
2	INSPECT CD <ul style="list-style-type: none"> Inspect condition of CD where error has occurred. Is CD okay? <p>Note</p> <ul style="list-style-type: none"> In some cases, not all CD-R/CD-RW will play. 	Yes	Go to next step.
		No	Repair (remove foreign material) or replace CD, then go to next step.
3	INSPECT CD CHANGER (UPPER MODULE) <ul style="list-style-type: none"> Clear DTC. Insert and eject CD with no defect. Start on-board diagnostic test mode. Is DTC 06:Er01 displayed? 	Yes	Replace CD changer (upper module).
		No	Troubleshooting completed.

DTC 06:ER02

A3U090266900W21

DTC 06:Er02	CD changer (upper module)
DETECTION CONDITION	<p>Note</p> <ul style="list-style-type: none"> When error occurs, error message "CHECK CD" is displayed in the LCD. <ul style="list-style-type: none"> Can not play CD normally or change tracks.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Defective CD (scratches or dirt) CD changer (upper module) malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION		
1	VERIFY WHETHER MALFUNCTION IS IN CD CHANGER (UPPER MODULE) OR CD <ul style="list-style-type: none"> Play all CDs in changer and select other song (change tracks). Is CD changer able to change tracks? 	Yes	Go to Step 3.	
		No	Not able to change particular tracks.	Go to next step.
		No	Not able to change any tracks.	Change CD and perform tracks-change again. <ul style="list-style-type: none"> If CD changer changes tracks, then go to Step 3. If not, replace CD changer (upper module).
2	INSPECT CD <ul style="list-style-type: none"> Inspect condition of CD where error has occurred. Is CD okay? <p>Note</p> <ul style="list-style-type: none"> In some cases, not all CD-R/CD-RW will play. 	Yes	Go to next step.	
		No	Repair (remove foreign material) or replace CD, then go to next step.	
3	INSPECT CD CHANGER (UPPER MODULE) <ul style="list-style-type: none"> Clear DTC. Play CD and select other song (change tracks). Start on-board diagnostic test mode. Is DTC 06:Er02 displayed? 	Yes	Replace CD changer (upper module).	
		No	Troubleshooting completed.	

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ON-BOARD DIAGNOSTIC [AUDIO]

DTC 06:Er07

A3U090266900W22

DTC 06:Er07	CD changer (upper module)
DETECTION CONDITION	<p>Note</p> <ul style="list-style-type: none"> When error occurs, error message "CHECK CD" is displayed in the LCD. Base unit detects CD reading error.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Defective CD (scratches or dirt) CD changer (upper module) malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION		
1	VERIFY WHETHER MALFUNCTION IS IN CD CHANGER (UPPER MODULE) OR CD <ul style="list-style-type: none"> Play all CDs in changer. Is CD changer able to read them properly? 	Yes	Go to Step 3.	
		No	Not able to read particular CD.	Go to next step.
			Not able to read any CD.	Go to Step 3.
2	INSPECT CD <ul style="list-style-type: none"> Inspect condition of CD where error has occurred. Is CD okay? <p>Note</p> <ul style="list-style-type: none"> In some cases, not all CD-R/CD-RW will play. 	Yes	Go to next step.	
		No	Repair (remove foreign material) or replace CD, then go to next step.	
3	INSPECT CD CHANGER (UPPER MODULE) <ul style="list-style-type: none"> Clear DTC. Insert and play CD for 12 seconds or more. Start on-board diagnostic test mode. Is DTC 06:Er07 displayed? 	Yes	Replace CD changer (upper module).	
		No	Troubleshooting completed.	

DTC 07:Er01

A3U090266900W23

DTC 07:Er01	MD player (lower module)
DETECTION CONDITION	<ul style="list-style-type: none"> MD player (lower module) cannot perform insert and eject commands.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Defective MD (broken or foreign material stuck/attached) MD player (lower module) malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	<ul style="list-style-type: none"> Is MD able to be ejected? 	Yes	Go to next step.
		No	Replace MD player (lower module).
2	INSPECT MD <ul style="list-style-type: none"> Inspect condition of MD where error has occurred. Is MD okay? 	Yes	Go to next step.
		No	Repair (remove foreign material) or replace MD, then go to next step.
3	INSPECT MD PLAYER (LOWER MODULE) <ul style="list-style-type: none"> Clear DTC. Insert and eject MD with no defect. Start on-board diagnostic test mode. Is DTC 07:Er01 displayed? 	Yes	Replace MD player (lower module).
		No	Troubleshooting completed.

ON-BOARD DIAGNOSTIC [AUDIO]

DTC 07:ER02

A3U090266900W24

DTC 07:Er02	MD player (lower module)
DETECTION CONDITION	<p>Note</p> <ul style="list-style-type: none"> When error occurs, error message “CHECK MD” is displayed in the LCD. Can not play MD normally or change tracks.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Defective MD (scratches or dirt) MD player (lower module) malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION		
1	VERIFY WHETHER MALFUNCTION IS IN MD PLAYER (LOWER MODULE) OR MD <ul style="list-style-type: none"> Play MD and select other song (change tracks). Is MD player able to change tracks? 	Yes	Go to Step 3.	
		No	Not able to change particular tracks.	Go to next step.
			Not able to change any tracks.	Change MD and perform tracks-change again. <ul style="list-style-type: none"> If MD player changes tracks, then go to Step 3. If not, replace MD player (lower module).
2	INSPECT MD <ul style="list-style-type: none"> Inspect condition of MD where error has occurred. Is MD okay? 	Yes	Go to next step.	
		No	Repair (remove foreign material) or replace MD, then go to next step.	
3	INSPECT MD PLAYER (LOWER MODULE) <ul style="list-style-type: none"> Clear DTC. Play MD and select other song (change tracks). Start on-board diagnostic test mode. Is DTC 07:Er02 displayed? 	Yes	Replace MD player (lower module).	
		No	Troubleshooting completed.	

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DTC 07:ER07

A3U090266900W25

DTC 07:Er07	MD player (lower module)
DETECTION CONDITION	<p>Note</p> <ul style="list-style-type: none"> When error occurs, error message “CHECK MD” is displayed in the LCD. Base unit detects MD reading error.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Defective MD (scratches or dirt) MD player (lower module) malfunction

Diagnostic procedure

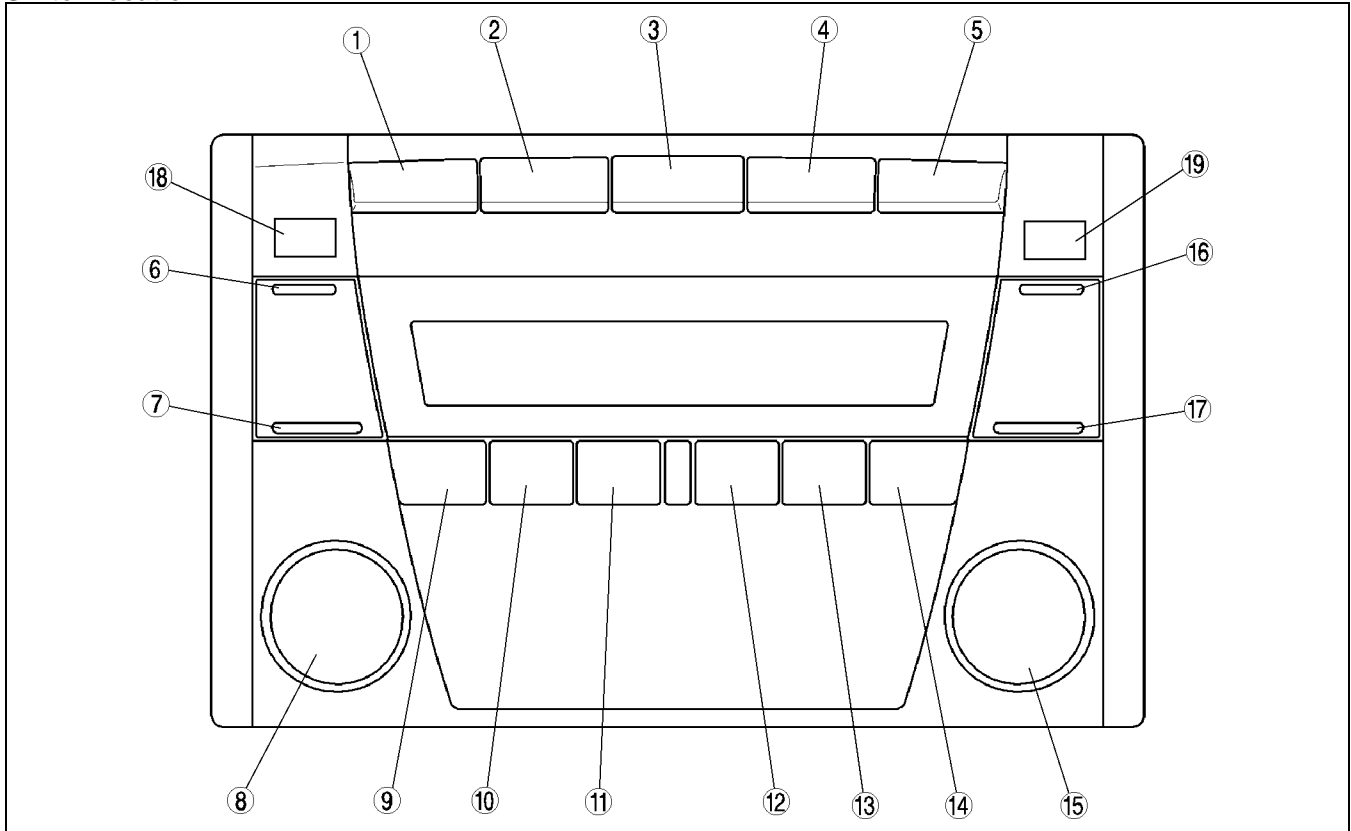
STEP	INSPECTION	ACTION	
1	INSPECT MD <ul style="list-style-type: none"> Inspect condition of MD where error has occurred. Is MD okay? 	Yes	Go to next step.
		No	Repair (remove foreign material) or replace MD, then go to next step.
2	INSPECT MD PLAYER (LOWER MODULE) <ul style="list-style-type: none"> Clear DTC. Insert and play MD for 12 seconds or more. Start on-board diagnostic test mode. Is DTC 07:Er07 displayed? 	Yes	Replace MD player (lower module).
		No	Troubleshooting completed.

ON-BOARD DIAGNOSTIC [AUDIO]

DIAGNOSTIC ASSIST FUNCTION

A3U090266900W26

Structural View Switch location



Z3U0920W004

1	FM1/2 button
2	AM button
3	CD button
4	MD/TAPE button
5	CLOCK button
6	SEEK button (upper)
7	SEEK button (lower)
8	POWER/VOL button
9	Preset button "1"
10	Preset button "2"

11	Preset button "3"
12	Preset button "4"
13	Preset button "5"
14	Preset button "6"
15	AUDIO CONT/TURN button
16	SCAN button
17	AUTO-M button
18	LOAD button (CD changer)
19	EJECT button (CD player and CD changer)

LCD inspection

- With audio on, first press the POWER button and hold it, then press the SEEK button (upper) for **approximately 1 second**.
- Inspect the LCD according to the following table:

Inspection	Display	Action	
Start LCD inspection mode.		Characters displayed in LCD are not truncated or faint.	LCD is okay.
		Other than above.	Replace base unit.

- Turn the audio off or the ignition switch to the LOCK position to stop the diagnostic assist function.

ON-BOARD DIAGNOSTIC [AUDIO]

Button inspection

1. With audio on, first press the POWER button and hold it, then press the CLOCK button for **approximately 1 second**.
2. Inspect the button according to the following table:

Note

- The button inspection mode is designed for base unit button. The following lower module button cannot be inspected in this mode. (A buzz will not sound.)
 - Cassete deck: DOLBY button, EJECT button
 - MD player: DISP button, EJECT button

Inspection	Display	Action	
<ul style="list-style-type: none"> • Start button inspection mode. • Press the all buttons. 	—	Buzzer sounds.	Button is okay.
		Buzzer does not sound.	Replace base unit.

3. Turn the audio off or the ignition switch to the LOCK position to stop the diagnostic assist function.

Speaker inspection




1. With audio on, first press the POWER button and hold it, then press the AUTO-M button for **approximately 1 second**.
2. Inspect the speaker according to the following table:

Inspection	Display	Action	
<ul style="list-style-type: none"> • Start speaker inspection mode. • Does each speaker output sound in the following order? <ol style="list-style-type: none"> 1. Left front door speaker 2. Right front door speaker 3. Right rear package speaker (4SD) or rear door speaker (5HB) 4. Left rear package speaker (4SD) or rear door speaker (5HB) 	—	Yes	Speakers and wiring harness between base unit and speakers are okay.
		No	Inspect the following parts. <ul style="list-style-type: none"> • Malfunctioning speaker • Wiring harness between base unit and malfunctioning speaker

3. Turn the audio off or the ignition switch to the LOCK position to stop the diagnostic assist function.

Radio reception condition inspection

1. With audio on and at radio mode, first press the POWER button and hold it, then press the preset button "2" for **approximately 1 second**.
2. Inspect the radio reception condition according to the following table:

Inspection	Display	Action
Start radio reception condition inspection mode.	NORMAL  5 GRADUATIONS OR ABOVE	Antenna, antenna feeder, and base unit are okay.
	 3-4 GRADUATIONS	Change frequency (channel) and inspect again.
	MALFUNCTIONING  2 GRADUATIONS OR BELOW	Inspect antenna and antenna feeder. <ul style="list-style-type: none"> • If either one of them is not okay, replace malfunctioning part. • If both are okay, replace base unit.

3. Turn the audio off or the ignition switch to the LOCK position to stop the diagnostic assist function.

09-02B

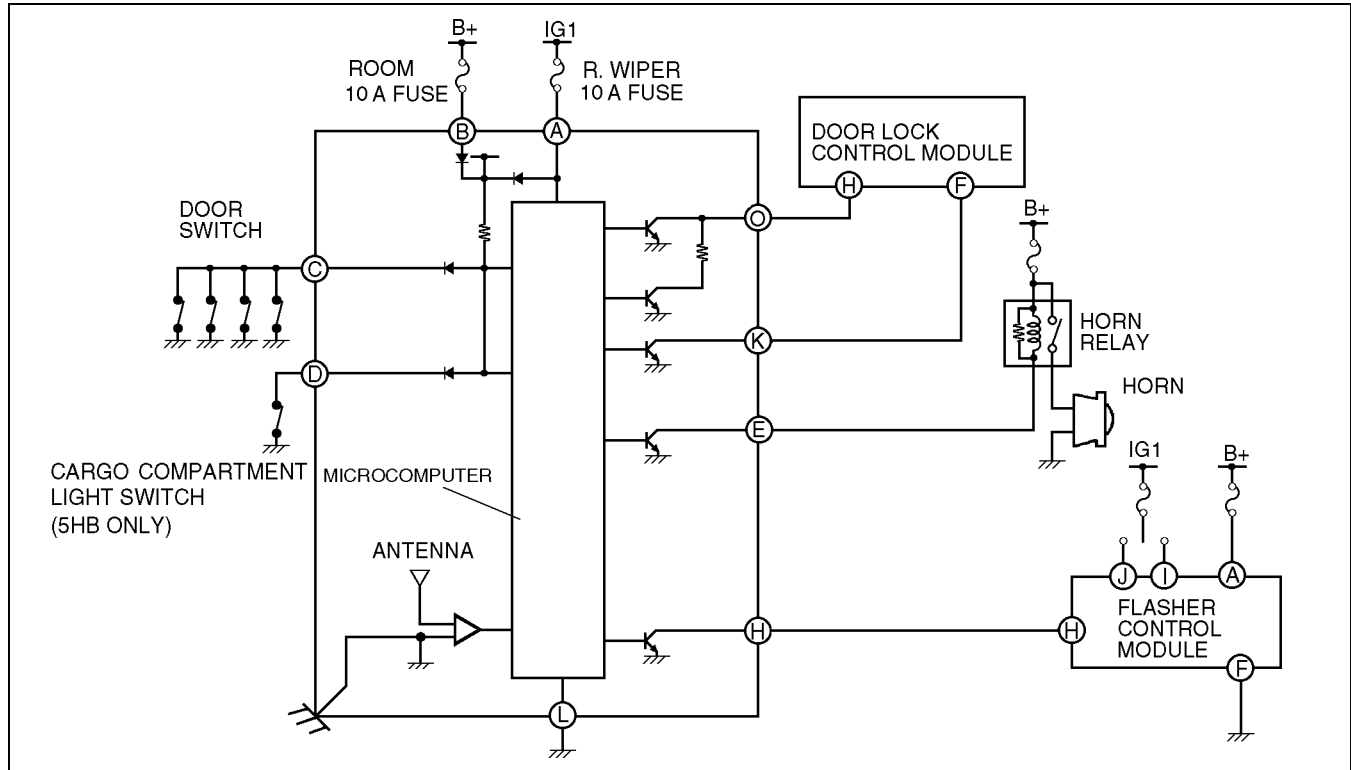
09-03 SYMPTOM TROUBLESHOOTING

KEYLESS ENTRY SYSTEM
 WIRING DIAGRAM 09-03-1
 FOREWORD 09-03-1
 KEYLESS ENTRY SYSTEM
 CHECK SHEET 09-03-2
 KEYLESS ENTRY SYSTEM
 PREINSPECTION 09-03-3

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 NO.1 ONE OR MORE ON-BOARD DIAGNOSTIC
 FUNCTIONS INOPERATIVE 09-03-4
 NO.2 ALL ON-BOARD DIAGNOSTIC
 FUNCTIONS INOPERATIVE 09-03-6
 NO.3 TRANSMITTER ID CODE CANNOT
 BE REPROGRAMMED 09-03-7

KEYLESS ENTRY SYSTEM WIRING DIAGRAM

A3U09036900W01

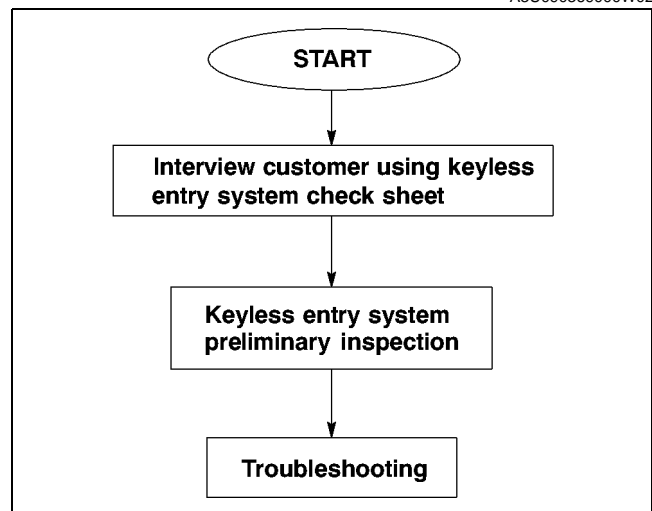


A3U0903W01

FOREWORD

- Go to symptom troubleshooting after identifying the specific malfunction by performing a keyless entry system preliminary inspection.

A3U09036900W02



ZLU0903W001

09-03

SYMPTOM TROUBLESHOOTING

KEYLESS ENTRY SYSTEM CHECK SHEET

A3U090369000W03

Note

- Use the sheet below as a customer interview sheet when accepting a vehicle for service.
- If the symptom is "Power door lock system does not operate with transmitter at all", find out how the customer uses the keyless entry system by following the check sheet below.

Perform the following inspection with customer:

Q1. What's the customer's complaint?

- Power door lock system does not operate with transmitter (door does not lock/unlock).
- Other _____

Q2. Is system factory-installed or after-market?

- Factory-installed system
→ Go to Q3.
- After-market system
→ Perform troubleshooting according to after-market keyless entry system manual.

Q3. Operate transmitter with customer from **2.5 m {8.2 ft}** away from center of vehicle. (Make sure the ignition key is either in the LOCK position or removed.)

Does keyless entry system work?

- Yes
→ Explain the following to the customer:
 - Keyless entry system does not work when ignition switch is in the ON position.
 - Keyless entry system does not work from excessive distances (**more than 2.5 m {8.2 ft}** away from center of vehicle).
- No
→ Go to Q4.

Q4. Check location where customer uses keyless entry system.

Does a particular area, such as being near TV towers, power plants, power lines or factories, have an effect on malfunction?

- Yes Place _____
→ Area of operation is bad. Explain effect of outside interference on transmitter to customer.
- No
→ Go to Q5.

Q5. Make sure there are no after-market electrical parts installed on vehicle.

Are there any of the following present?

- Cellular phone
- Radio-wave equipment
- Remote engine starter
- TV, etc.
- Yes Parts _____
- No

Perform the keyless entry system preinspection.

Z3U0903W003

SYMPTOM TROUBLESHOOTING

KEYLESS ENTRY SYSTEM PREINSPECTION

A3U090369000W04

1. Perform the following pre-inspection before troubleshooting.

STEP	INSPECTION	ACTION	
1	<ul style="list-style-type: none"> Is the system an after-market one? 	Yes	Perform troubleshooting according to after-market keyless entry system manual.
		No	Go to next step.
2	<ul style="list-style-type: none"> Did customer activate keyless entry system when ignition switch was in LOCK position? 	Yes	Go to next step.
		No	Explain to customer that system does not work when ignition switch is in ON position. Turn ignition switch to LOCK position, then go to next step.
3	<ul style="list-style-type: none"> Did customer use keyless entry system in particular area, such as being near TV towers, power plants, power lines or factories? 	Yes	Attempt to lock/unlock doors with transmitter in non-interference area. <ul style="list-style-type: none"> If system operates: <ul style="list-style-type: none"> Area of operation is bad. Explain effect of outside interference on transmitter to customer. If system does not operate: <ul style="list-style-type: none"> Go to next step.
		No	Go to next step.
4	<ul style="list-style-type: none"> Are any of the following after-market electrical parts on the vehicle? <ul style="list-style-type: none"> Cellular phone Radio-wave equipment Remote engine starter TV, etc. 	Yes	Disconnect after-market electrical part connectors and attempt to lock/unlock doors with transmitter. <ul style="list-style-type: none"> If system operates: <ul style="list-style-type: none"> After-market electrical parts are interfering with keyless entry system. If system does not operate: <ul style="list-style-type: none"> Go to next step.
		No	Go to next step.
5	<ul style="list-style-type: none"> Perform on-board diagnostic function. (See 09-02A-2 ON-BOARD DIAGNOSTIC FUNCTION [KEYLESS ENTRY SYSTEM]) Does on-board diagnostic function work? 	Yes	Go to next step.
		No	Go to Step 7.
6	<ul style="list-style-type: none"> Attempt to reprogram keyless control module ID code. Can keyless control module ID code be reprogrammed? 	Yes	System is normal now.
		No	Go to Step 1 of troubleshooting No.3.
7	<ul style="list-style-type: none"> Did any on-board diagnostic functions work? 	Yes	Go to Step 1 of troubleshooting No.1.
		No	Go to Step 1 of troubleshooting No.2.

09-03

TROUBLESHOOTING INDEX

A3U090369000W05

No.	TROUBLESHOOTING ITEM	DESCRIPTION	PAGE
1	One or more on-board diagnostic functions inoperative.	<ul style="list-style-type: none"> Malfunction in horn system, hazard warning light system, door lock linkage system, door lock switch system or driver's door key cylinder switch system. 	(See 09-03-4 NO.1 ONE OR MORE ON-BOARD DIAGNOSTIC FUNCTIONS INOPERATIVE)
2	All on-board diagnostic functions inoperative.	<ul style="list-style-type: none"> Malfunction in keyless control module power supply circuit, door switch circuit, cargo compartment light switch circuit (5HB) or keyless control module ground circuit. 	(See 09-03-6 NO.2 ALL ON-BOARD DIAGNOSTIC FUNCTIONS INOPERATIVE)
3	Transmitter ID code cannot be reprogrammed.	<ul style="list-style-type: none"> Malfunction in transmitter battery, transmitter, keyless control module bracket, keyless control module bracket ground screw or keyless control module circuit. 	(See 09-03-7 NO.3 TRANSMITTER ID CODE CANNOT BE REPROGRAMMED)

SYMPTOM TROUBLESHOOTING

NO.1 ONE OR MORE ON-BOARD DIAGNOSTIC FUNCTIONS INOPERATIVE

A3U090369000W06

- When performing an asterisked (*) troubleshooting inspection, shake the wiring harness and connectors while performing the inspection to discover whether poor contact points are the cause of any intermittent malfunctions. If there is a problem, make sure connectors, terminals and wiring harnesses are connected correctly and undamaged.

1	One or more on-board diagnostic functions inoperative
DESCRIPTION	<ul style="list-style-type: none"> Malfunction in horn system, hazard light system, door lock linkage system, door lock switch system or driver's door key cylinder switch system.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Malfunction in horn system <ul style="list-style-type: none"> Horn circuit malfunction Keyless control module malfunction Malfunction in wiring harness between keyless control module and horn relay Malfunction in hazard light system <ul style="list-style-type: none"> Hazard light circuit Keyless control module malfunction Malfunction in wiring harness between keyless control module and flasher control module Malfunction in door lock linkage Malfunction in door lock switch system Malfunction in keyless control module door unlock signal circuit <ul style="list-style-type: none"> Keyless control module malfunction Malfunction in wiring harness between keyless control module and door lock control module Malfunction in driver-side door key cylinder switch system Malfunction in keyless control module door lock/unlock signal circuit <ul style="list-style-type: none"> Keyless control module malfunction Malfunction in wiring harness between keyless control module and door lock control module

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	CHECK HORN, AND HAZARD WARNING LIGHT OPERATION DURING ON-BOARD DIAGNOSIS <ul style="list-style-type: none"> Did all of the following items work during on-board diagnostic function operation? <ul style="list-style-type: none"> Horns sounded intermittently Hazard warning lights flashed 	Yes	Go to Step 8.
		No	Go to next step.
2	CHECK HORN OPERATION DURING ON-BOARD DIAGNOSIS <ul style="list-style-type: none"> Did horns sound intermittently during on-board diagnostic function operation? 	Yes	Go to Step 5.
		No	Go to next step.
3	INSPECT HORN CIRCUIT <ul style="list-style-type: none"> Do horns sound when depressing horn switch on vehicle? 	Yes	Go to next step.
		No	Inspect horn circuit.
*4	CHECK TO SEE WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN KEYLESS CONTROL MODULE AND HORN RELAY) OR KEYLESS CONTROL MODULE <ul style="list-style-type: none"> Measure voltage at keyless control module connector terminal E during on-board diagnostic function operation. <ul style="list-style-type: none"> B+ → below 1.0 V → B+ → below 1.0 V → B+ Is voltage as above? 	Yes	Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.
		No	Inspect wiring harness between keyless control module and horn relay. <ul style="list-style-type: none"> If wiring harness is OK, replace keyless control module and reprogram transmitter ID code, then go to Step 16. If wiring harness malfunctions, repair wiring harness, then go to Step 16.
5	CHECK HAZARD WARNING LIGHT OPERATION DURING ON-BOARD DIAGNOSIS <ul style="list-style-type: none"> Did hazard warning lights flash during on-board diagnostic function operation? 	Yes	Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.
		No	Go to next step.
6	INSPECT HAZARD WARNING LIGHT CIRCUIT <ul style="list-style-type: none"> Do hazard warning lights flash when hazard warning switch is on? 	Yes	Go to next step.
		No	Inspect hazard light circuit.
*7	CHECK TO SEE WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN KEYLESS CONTROL MODULE AND FLASHER CONTROL MODULE) OR KEYLESS CONTROL MODULE <ul style="list-style-type: none"> Measure voltage at keyless control module connector terminal H during on-board diagnostic function operation. <ul style="list-style-type: none"> Alternates between B+ and below 1.0 V Is voltage as above? 	Yes	Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.
		No	Inspect wiring harness between keyless control module and flasher control module. <ul style="list-style-type: none"> If wiring harness is OK, replace keyless control module and reprogram transmitter ID code, then go to Step 16. If wiring harness malfunctions, repair wiring harness, then go to Step 16.

SYMPTOM TROUBLESHOOTING

STEP	INSPECTION	ACTION	
8	MAKE SURE THAT ALL DOORS LOCK AND UNLOCK DURING ON-BOARD DIAGNOSIS <ul style="list-style-type: none"> • Did all of the following items work during on-board diagnostic function operation? <ul style="list-style-type: none"> — All doors unlocked and locked — Driver-side door unlocked 	Yes	Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.
		No	Go to next step.
9	INSPECT DOOR LOCK LINKAGE <ul style="list-style-type: none"> • Operate inner door lock knob and make sure door locks and unlocks manually. • Does every door lock system work? 	Yes	Go to next step.
		No	Inspect door lock linkage.
10	MAKE SURE THAT ALL DOORS UNLOCK DURING ON-BOARD DIAGNOSIS <ul style="list-style-type: none"> • Did all doors unlock during on-board diagnostic function operation? 	Yes	Go to Step 13.
		No	Go to next step.
11	CHECK TO SEE WHETHER MALFUNCTION IS IN DRIVER'S DOOR LOCK SWITCH SYSTEM OR ELSEWHERE <ul style="list-style-type: none"> • Do all doors unlock when door lock switch UNLOCK button is pressed? 	Yes	Go to next step.
		No	Inspect power door lock system.
*12	CHECK TO SEE WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN KEYLESS CONTROL MODULE AND DOOR LOCK CONTROL MODULE) OR KEYLESS CONTROL MODULE <ul style="list-style-type: none"> • Measure voltage at keyless control module connector terminal K during on-board diagnostic function operation. <ul style="list-style-type: none"> — All doors unlocked: 5 V→below 1.0 V→5 V • Is voltage as above? 	Yes	Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.
		No	Inspect wiring harness between keyless control module and door lock control module. <ul style="list-style-type: none"> • If wiring harness is OK, replace keyless control module and reprogram transmitter ID code, then go to Step 16. • If wiring harness malfunctions, repair wiring harness, then go to Step 16.
13	MAKE SURE THAT ALL DOORS LOCK AND DRIVER'S DOOR UNLOCKS DURING ON-BOARD DIAGNOSIS <ul style="list-style-type: none"> • Did all of the following items work during on-board diagnostic function operation? <ul style="list-style-type: none"> — All doors locked — Driver-side door unlocked 	Yes	Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.
		No	Go to next step.
14	CHECK TO SEE WHETHER MALFUNCTION IS IN DRIVER'S DOOR KEY CYLINDER SWITCH SYSTEM OR ELSEWHERE <ul style="list-style-type: none"> • Do all of the following items work when inserting ignition key into driver-side door key cylinder and operating ignition key? <ul style="list-style-type: none"> — All doors locked — Driver-side door unlocked 	Yes	Go to next step.
		No	Inspect power door lock system.
*15	CHECK TO SEE WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN KEYLESS CONTROL MODULE AND DOOR LOCK CONTROL MODULE) OR KEYLESS CONTROL MODULE <ul style="list-style-type: none"> • Measure voltage at keyless control module connector terminal O during on-board diagnostic function operation. <ul style="list-style-type: none"> — All doors locked: 5 V→2.5 V→5 V — Driver-side door unlocked: 5 V→below 1.0 V→5 V • Is voltage as above? 	Yes	Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.
		No	Inspect wiring harness between keyless control module and door lock control module. <ul style="list-style-type: none"> • If wiring harness is OK, replace keyless control module and reprogram transmitter ID code, then go to next step. • If wiring harness malfunction, repair wiring harness, then go to next step.
16	RECHECK MALFUNCTION SYMPTOM AFTER REPAIR <ul style="list-style-type: none"> • Does keyless entry system operate properly? 	Yes	Troubleshooting completed. Explain repairs to customer.
		No	Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.

09-03

SYMPTOM TROUBLESHOOTING

NO.2 ALL ON-BOARD DIAGNOSTIC FUNCTIONS INOPERATIVE

A3U090369000W07

- When performing an asterisked (*) troubleshooting inspection, shake the wiring harness and connectors while performing the inspection to discover whether poor contact points are the cause of any intermittent malfunctions. If there is a problem, make sure connectors, terminals and wiring harnesses are connected correctly and undamaged.

2	All on-board diagnostic functions inoperative
DESCRIPTION	<ul style="list-style-type: none"> • Malfunction in keyless control module power supply circuit, door switch circuit, cargo compartment light switch circuit (5HB) or keyless control module ground circuit.
POSSIBLE CAUSE	<ul style="list-style-type: none"> • Malfunction in IG1, B+ signal circuit of keyless control module <ul style="list-style-type: none"> — Keyless control module power supply fuse malfunction — Malfunction in wiring harness between keyless control module power supply fuse(s) and keyless control module itself • Malfunction in keyless control module door open/closed signal circuit <ul style="list-style-type: none"> — Door switch system malfunction — Keyless control module malfunction — Malfunction in wiring harness between keyless control module and door switch • Malfunction in keyless control module's liftgate open/closed signal circuit (5HB) <ul style="list-style-type: none"> — Cargo compartment light switch system malfunction — Keyless control module malfunction — Malfunction in wiring harness between keyless control module and cargo compartment light switch • Malfunction in keyless control module GND signal circuit <ul style="list-style-type: none"> — Malfunction in wiring harness between keyless control module and ground

Diagnostic procedure

STEP	INSPECTION		ACTION
1	INSPECT KEYLESS CONTROL MODULE POWER SUPPLY FUSES <ul style="list-style-type: none"> • Are keyless control module power supply fuses okay? 	Yes	Go to next step.
		No	Check for a short to ground on blown fuse circuit. Repair or replace as necessary. Install appropriate amperage fuse.
2	INSPECT DOOR SWITCH INSTALLATION <ul style="list-style-type: none"> • Are door switches installed securely? 	Yes	Go to next step.
		No	Install door switches securely, then go back to Step 5 of keyless entry system preliminary inspection.
*3	CHECK TO SEE WHETHER MALFUNCTION IS IN WIRING HARNESS (LACK OF CONTINUITY BETWEEN FUSE BLOCK AND KEYLESS CONTROL MODULE) OR ELSEWHERE <ul style="list-style-type: none"> • Turn ignition switch to ON position. • Measure voltage at following keyless control module terminals: <ul style="list-style-type: none"> — IG1 signal (Terminal A) — B+ signal (Terminal B) • Is voltage approximately 12 V? 	Yes	Go to next step.
		No	Repair wiring harness between fuse block and keyless control module, then go to Step 8.
*4	CHECK TO SEE WHETHER MALFUNCTION IS IN WIRING HARNESS (SHORT TO B+ BETWEEN FUSE BLOCK AND KEYLESS CONTROL MODULE, OR BETWEEN KEYLESS CONTROL MODULE AND GROUND) OR ELSEWHERE <ul style="list-style-type: none"> • Turn ignition switch to LOCK position. • Disconnect keyless control module connector. • Measure voltage at following keyless control module connector terminal: <ul style="list-style-type: none"> — IG1 signal (Terminal A) • Is voltage approximately 12 V? 	Yes	Repair malfunctioning wiring harness, then go to Step 8.
		No	Go to next step.
*5	CHECK TO SEE WHETHER MALFUNCTION IS IN WIRING HARNESS (LACK OF CONTINUITY BETWEEN KEYLESS CONTROL MODULE AND GROUND) OR ELSEWHERE <ul style="list-style-type: none"> • Is there continuity between keyless control module connector terminal L and ground? 	Yes	Go to next step.
		No	Repair wiring harness between keyless control module and ground, then go to Step 8.
6	CHECK FOR CHECK CODE 04 IN INSTRUMENT CLUSTER <ul style="list-style-type: none"> • Inspect door switch using instrument cluster input/output check mode. (See 09-22-5 INSTRUMENT CLUSTER INPUT/OUTPUT CHECK MODE) • Does DTC 04 function properly? 	Yes	Go to next step.
		No	Repair door switch system using DTC 04 inspection procedure, then go to Step 8.

SYMPTOM TROUBLESHOOTING

STEP	INSPECTION		ACTION
7	INSPECT KEYLESS CONTROL MODULE OR WIRING HARNESS (BETWEEN KEYLESS CONTROL MODULE AND DOOR SWITCHES, CARGO COMPARTMENT LIGHT SWITCH FOR CONTINUITY) <ul style="list-style-type: none"> Open the driver-side door. Open the liftgate. Is there continuity between keyless control module connector terminal C, D and ground? 	Yes	Replace keyless control module and reprogram keyless control module ID code, then go to next step.
		No	Repair wiring harness between keyless control module and door switches, cargo compartment light switch then go to next step.
8	RECHECK MALFUNCTION SYMPTOM AFTER REPAIR <ul style="list-style-type: none"> Does keyless entry system operate properly? 	Yes	Troubleshooting completed. Explain repairs to customer.
		No	Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.

NO.3 TRANSMITTER ID CODE CANNOT BE REPROGRAMMED

A3U090369000W08

3	Transmitter ID code cannot be reprogrammed
DESCRIPTION	<ul style="list-style-type: none"> Malfunction in transmitter battery, transmitter keyless control module bracket, keyless control module bracket ground screw or keyless control module circuit.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Malfunction in transmitter battery, transmitter, keyless control module bracket, keyless control module bracket ground screw or keyless control module circuit <ul style="list-style-type: none"> — Transmitter battery, transmitter, keyless control module bracket, keyless control module bracket ground screw or keyless control module malfunction

Diagnostic procedure

STEP	INSPECTION		ACTION
1	INSPECT TRANSMITTER BATTERY INSTALLATION AND TYPE <ul style="list-style-type: none"> Visually inspect transmitter battery. Are below items okay? <ul style="list-style-type: none"> — Transmitter battery installation (correct polarity) — Battery type (CR2025) 	Yes	Go to next step.
		No	Set transmitter battery properly or replace with specified transmitter battery (CR2025), then go to Step 8.
2	INSPECT TRANSMITTER BATTERY TERMINALS FOR RUST AND POOR CONNECTION <ul style="list-style-type: none"> Visually inspect transmitter. <ul style="list-style-type: none"> — Is there rust on transmitter battery terminals (positive or negative pole)? — Is there poor connection between terminals and battery? 	Yes	Replace transmitter battery or repair transmitter battery terminal, then go to Step 8.
		No	Go to next step.
3	INSPECT TRANSMITTER BATTERY <ul style="list-style-type: none"> Inspect transmitter battery. Is battery voltage normal? 	Yes	Go to next step.
		No	Replace transmitter battery, then go to Step 8.
4	INSPECT KEYLESS CONTROL MODULE BRACKET INSTALLATION <ul style="list-style-type: none"> Is keyless control module bracket installed securely? 	Yes	Go to next step.
		No	Install bracket securely, then go back to Step 6 of keyless entry system preliminary inspection.
5	INSPECT GROUND SCREW INSTALLATION BETWEEN KEYLESS CONTROL MODULE AND KEYLESS CONTROL MODULE BRACKET <ul style="list-style-type: none"> Are keyless control module and keyless control module bracket connected securely to ground screw? 	Yes	Go to next step.
		No	Install screw securely, then go back to Step 6 of keyless entry system preliminary inspection.
6	CHECK TO SEE WHETHER MALFUNCTION IS IN TRANSMITTER BATTERY OR ELSEWHERE <ul style="list-style-type: none"> Replace with a known good transmitter battery. Does keyless entry system operate properly? 	Yes	Replace transmitter battery, then go to Step 8.
		No	Go to next step.
7	CHECK TO SEE WHETHER MALFUNCTION IS IN TRANSMITTER OR KEYLESS CONTROL MODULE <ul style="list-style-type: none"> Reprogram keyless control module ID code using another known good transmitter. Does keyless entry system operate properly? 	Yes	Replace transmitter and reprogram transmitter ID code, then go to next step.
		No	Replace keyless control module and reprogram keyless control module ID code, then go to next step.
8	RECHECK MALFUNCTION SYMPTOM AFTER REPAIR <ul style="list-style-type: none"> Does keyless entry system operate properly? 	Yes	Troubleshooting completed. Explain repairs to customer.
		No	Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.

09-03

09-10 BODY PANELS

FUEL-FILLER LID ADJUSTMENT 09-10-1
FUEL-FILLER LID
 REMOVAL/INSTALLATION 09-10-1
HOOD ADJUSTMENT..... 09-10-2
HOOD REMOVAL/INSTALLATION 09-10-3
TRUNK LID ADJUSTMENT 09-10-3
TRUNK LID REMOVAL/INSTALLATION 09-10-4
 Balance Spring Removal Note..... 09-10-2
FRONT BUMPER
REMOVAL/INSTALLATION 09-10-5
 Front Bumper Removal Note 09-10-5

Front Bumper Installation Note09-10-6
FRONT BUMPER
DISASSEMBLY/ASSEMBLY09-10-6
 Front Bumper Mesh Removal Note....09-10-6
 Hole Cover Removal Note09-10-7
REAR BUMPER
REMOVAL/INSTALLATION.....09-10-7
 4SD.....09-10-7
 5HB.....09-10-7
FRONT FENDER PANEL
REMOVAL/INSTALLATION.....09-10-8

FUEL-FILLER LID ADJUSTMENT

1. Measure the gap and height between the fuel-filler lid and the body.
 - If not as specified, loosen the fuel-filler lid installation bolts, and reposition the fuel-filler lid.

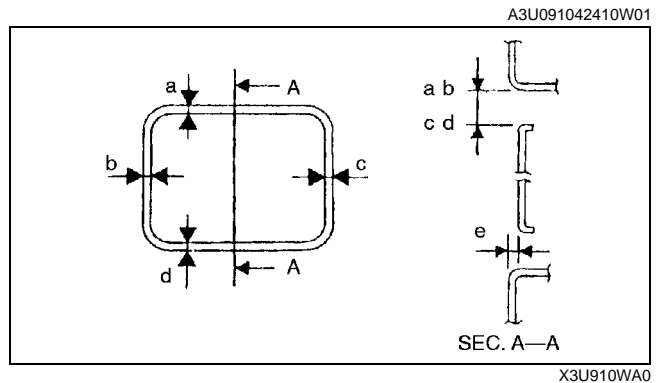
Clearance

- a: 2.1—4.1 mm {0.09—0.16 in}
- b: 2.5—4.5 mm {0.10—0.17 in}
- c: 2.5—4.5 mm {0.10—0.17 in}
- d: 2.3—4.3 mm {0.10—0.16 in}
- e: -0.5—1.5 mm {-0.020—0.059 in}

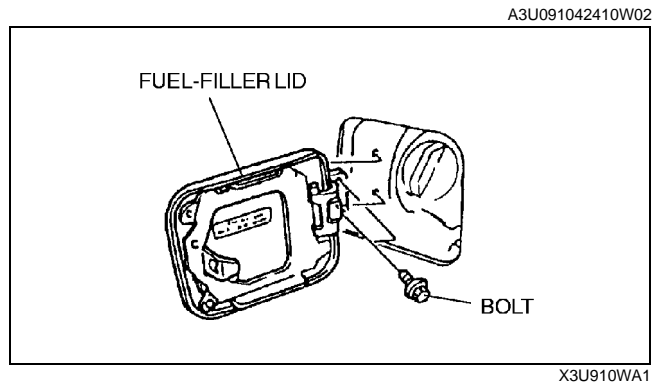
2. Tighten the bolts.

FUEL-FILLER LID REMOVAL/INSTALLATION

1. Remove the bolts, then remove the fuel-filler lid.
2. Install in the reverse order of removal.
3. Adjust the fuel-filler lid. (See 09-10-1 FUEL-FILLER LID ADJUSTMENT.)



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BODY PANELS

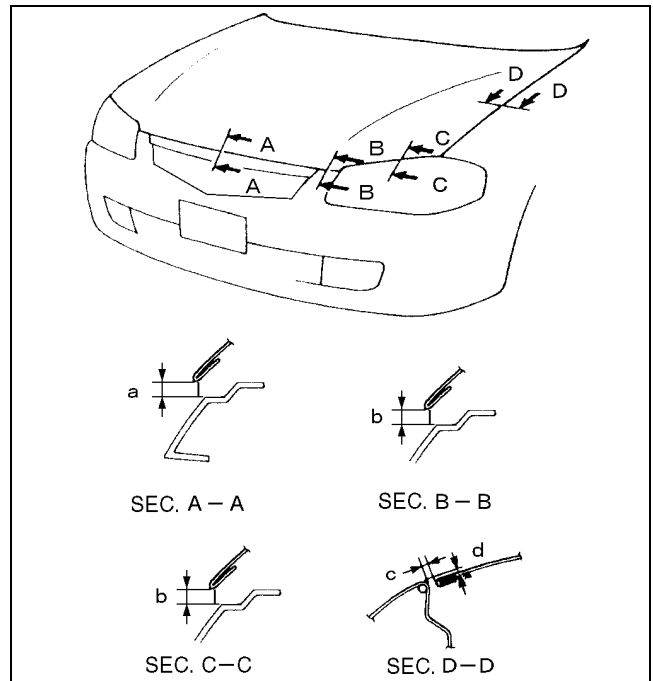
HOOD ADJUSTMENT

A3U091052310W01

1. Measure the gap and height between the bonnet and the body.
 - If not as specified, adjust the gap and height.

Clearance

- a: 3.7—8.3 mm {0.15—0.33 in}
- b: 4.0—8.0 mm {0.16—0.32 in}
- c: 3.0—5.0 mm {0.12—0.20 in}
- d: -1.0—1.0 mm {-0.04—0.04 in}



Y3E7710W001

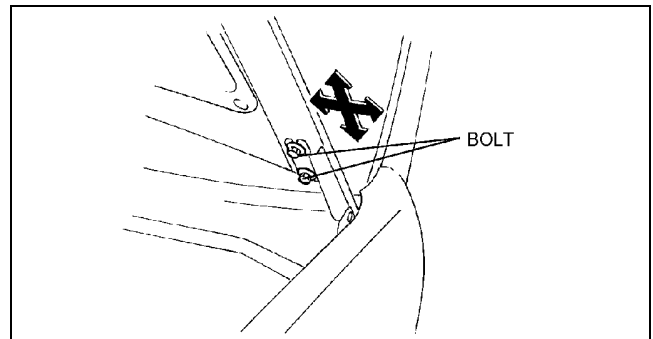
Gap Adjustment

1. Loosen the bonnet installation bolts and reposition the bonnet.

Tightening torque

18.6—28.4 N·m {1.9—2.9 kgf·m, 13—20 ft·lbf}

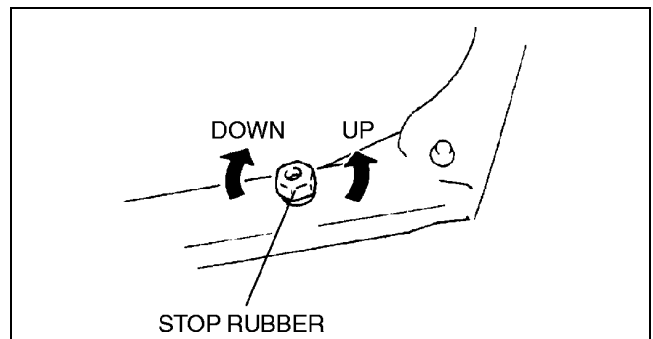
2. Tighten the bolts.



Y3E7710W002

Height Adjustment

1. Turn the stop rubber to adjust the height of the bonnet.



X5U910WA3

BODY PANELS

HOOD REMOVAL/INSTALLATION

A3U091052310W02

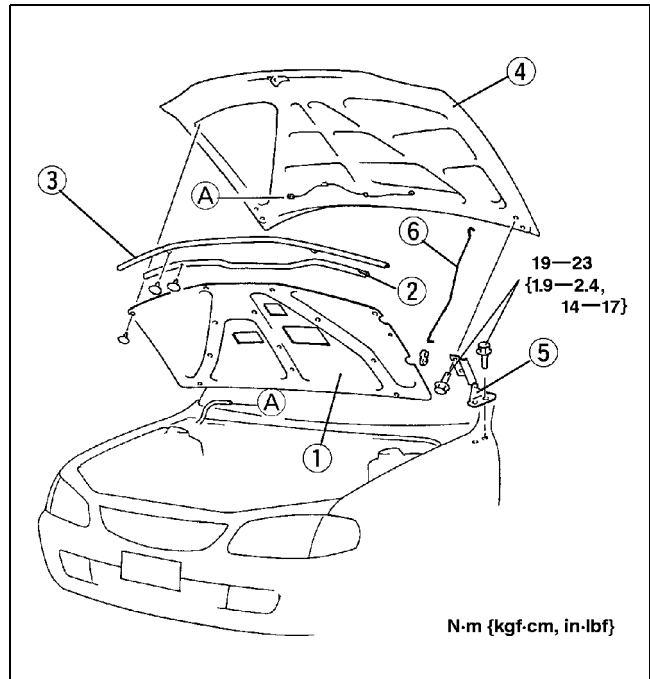
Warning

- Removing the hood without supporting it can be dangerous. The hood may fall and injure you. Always perform these procedures together with at least another person.

1. Disconnect the windshield washer hose.
2. To remove the hood hinge, remove the front fender panel. (See 09-10-8 FRONT FENDER PANEL REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Hood insulator (FP)
2	Shroud seal weatherstrip
3	Parting seal weatherstrip
4	Hood
5	Hood hinge
6	Hood stay

4. Install in the reverse order of removal.
5. Adjust the hood. (See 09-10-2 HOOD ADJUSTMENT.)



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09-10

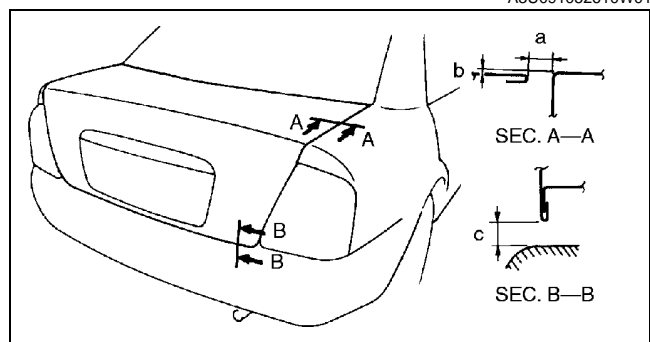
TRUNK LID ADJUSTMENT

1. Measure the gap between the trunk lid and the body panel.
 - If not as specified, loosen the trunk lid hinge installation nuts and reposition the trunk lid.

Clearance

- a: 3.3—5.3 mm {0.13—0.20 in}
 b: -1.0—1.0 mm {-0.040—0.039 in}
 c: 5.0—11.0 mm {0.20—0.43 in}

2. Tighten the nuts.



X3U910WA6

BODY PANELS

TRUNK LID REMOVAL/INSTALLATION

A3U091052610W02

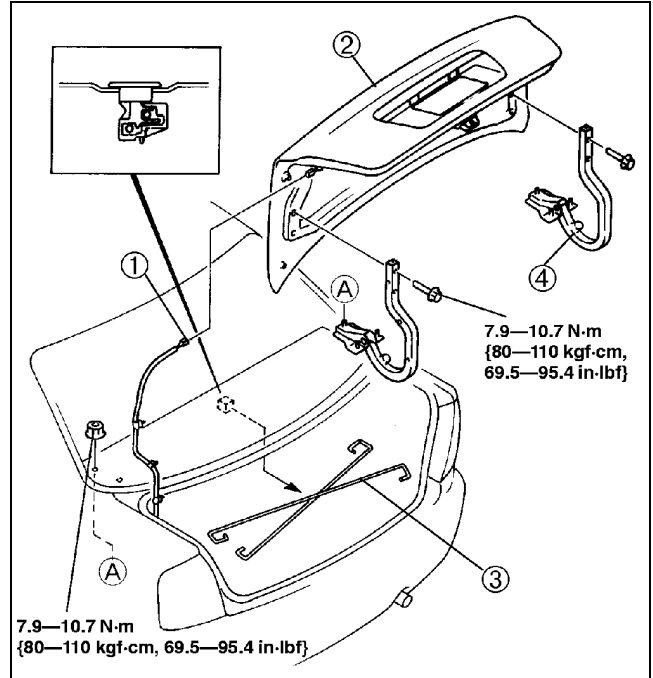
Warning

- Removing the trunk lid without supporting it can be dangerous. The trunk lid may fall and injure you. Always perform these procedures together with at least another person.

1. Disconnect the negative battery cable.
2. To remove the trunk lid hinge, remove the rear package trim. (See 09-17-12 REAR PACKAGE TRIM REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Connector
2	Trunk lid
3	Balance spring (See 09-10-4 Balance Spring Removal Note)
4	Trunk lid hinge

4. Install in the reverse order of removal.
5. Adjust the trunk lid. (See 09-10-3 TRUNK LID ADJUSTMENT.)



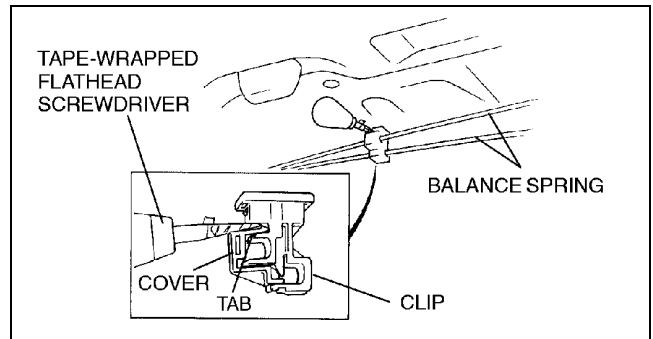
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Balance Spring Removal Note

Note

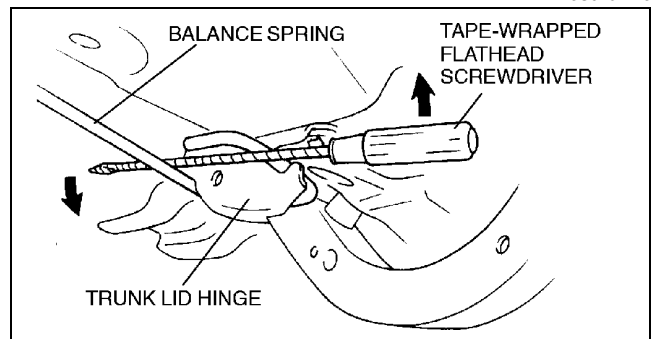
- The balance springs are under high tension.

1. Push the tab of the clip to open the cover using a tape-wrapped flathead screwdriver.
2. Remove the balance springs from the clip.



Y3U910WA3

3. Remove the balance spring from the trunk lid hinge using a tape-wrapped flathead screwdriver.



X3U910WA9

BODY PANELS

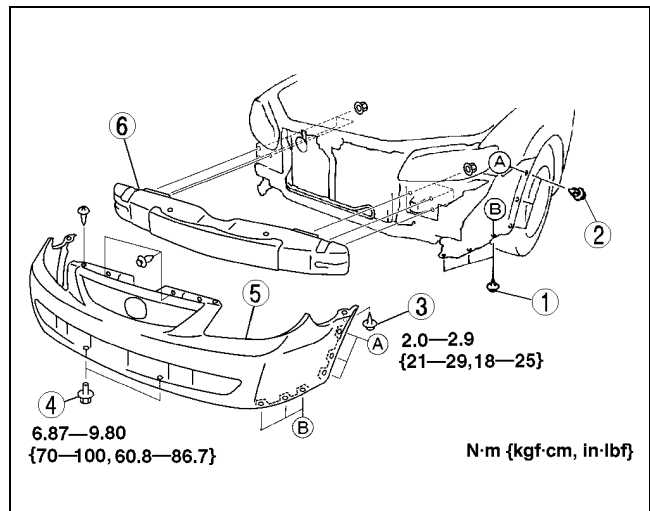
FRONT BUMPER REMOVAL/INSTALLATION

A3U091050031W01

1. Disconnect the negative battery cable.
2. Disconnect the front fog light connector.
3. To remove the bumper reinforcement, remove the front bumper and washer tank, then remove the bumper reinforcement installation nuts.
4. Remove in the order indicated in the table.

1	Screw A
2	Fastener
3	Screw B
4	Bolt
5	Front bumper (See 09-10-5 Front Bumper Removal Note.) (See 09-10-6 Front Bumper Installation Note.)
6	Front bumper reinforcement

5. Install in the reverse order of removal.
6. Adjust the front fog light aiming. (See 09-18-9 FRONT FOG LIGHT ADJUSTMENT.)



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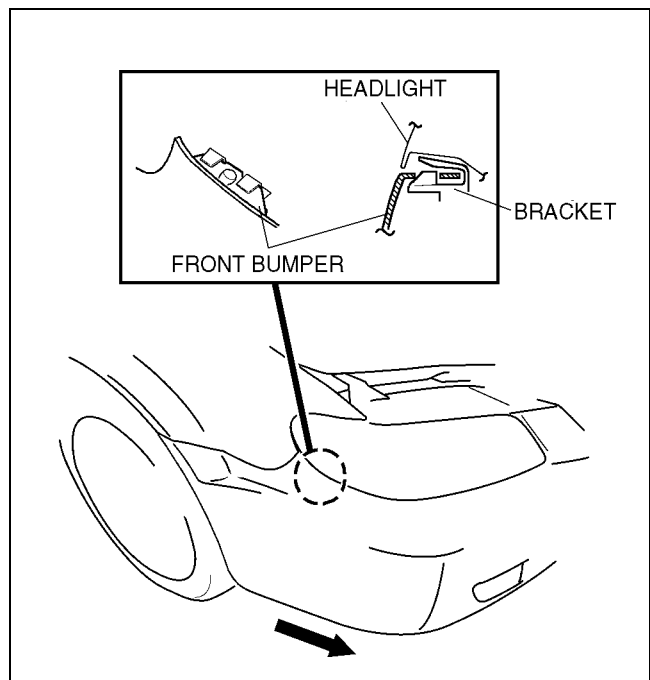
Front Bumper Removal Note

1. While supporting the connection between the front bumper and bracket, pull the front bumper forward to disengage the connection.

Note

- The connection between the front bumper and bracket does not disengage until the front bumper is pulled forward. Be sure to pull the front bumper forward to disengage it from the bracket.

2. Remove the front bumper.



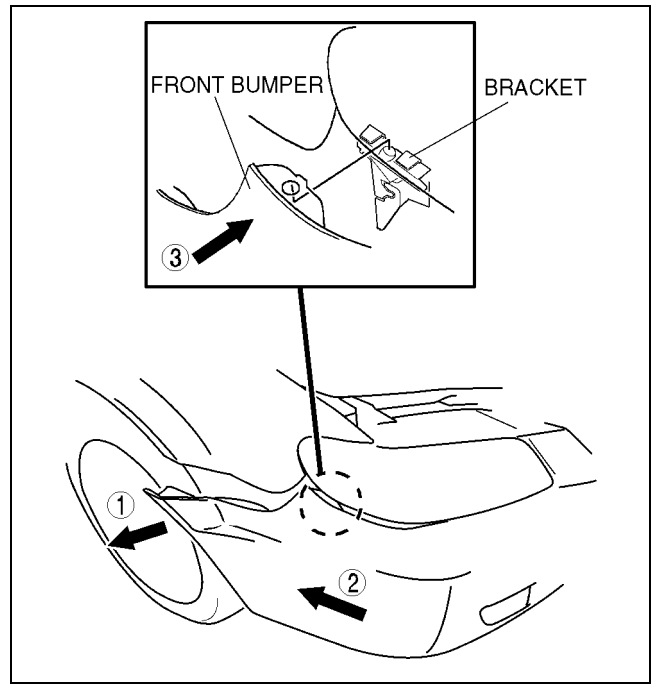
Y3E7726W004

09-10

BODY PANELS

Front Bumper Installation Note

1. Spread the front bumper ends (wheel arches) apart.
2. Attach the front bumper to the body.
3. Press the front bumper connection portion into the body to engage with the bracket.



Y3E7726W005

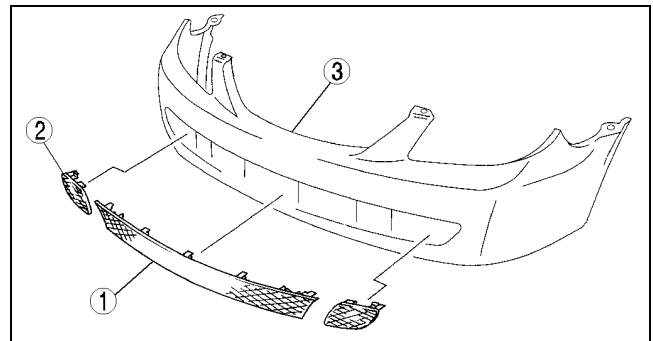
FRONT BUMPER DISASSEMBLY/ASSEMBLY

A3U091050031W02

1. Remove the radiator grille.
2. Disassemble in the order indicated in the table.

1	Front bumper mesh (See 09-10-6 Front Bumper Mesh Removal Note.)
2	Hole cover (See 09-10-7 Hole Cover Removal Note.)
3	Front bumper fascia

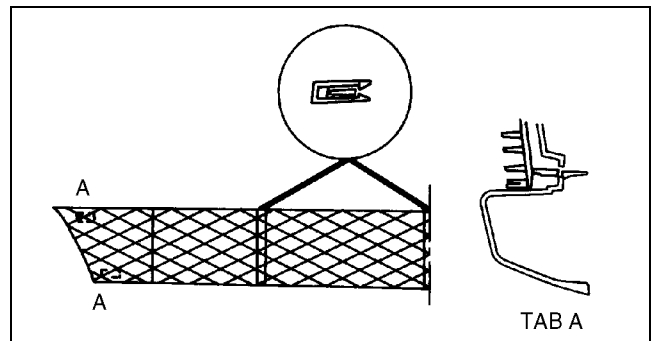
3. Assemble in the reverse order of disassembly.



Z3U0910W001

Front Bumper Mesh Removal Note

1. Push the tabs of front bumper mesh forward from the back of the front bumper fascia to unhook the front bumper mesh.

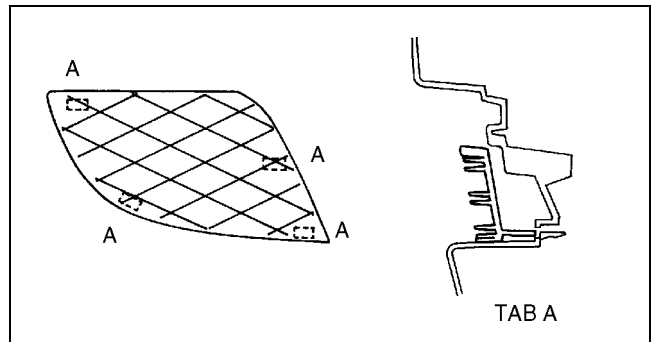


Z3U0910W002

BODY PANELS

Hole Cover Removal Note

1. Push the tabs on the hole cover forward from the back of the front bumper fascia to unhook the front bumper mesh.



Z3U0910W003

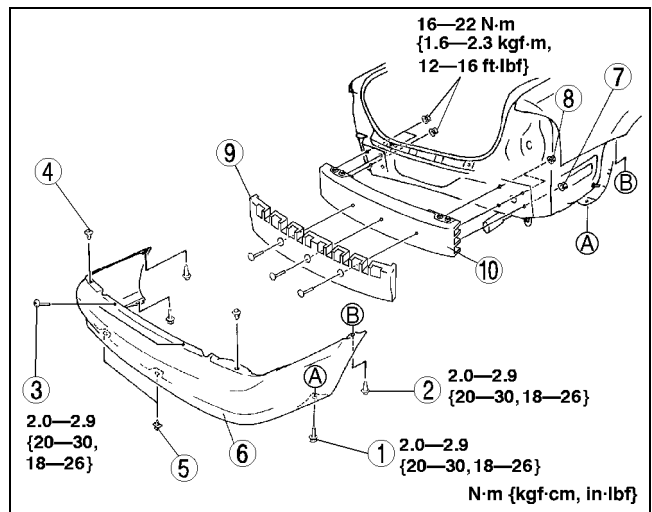
REAR BUMPER REMOVAL/INSTALLATION

4SD

1. Disconnect the negative battery cable.
2. Remove the rear combination lights. (See 09-18-10 REAR COMBINATION LIGHT REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Bolt A
2	Screw
3	Bolt B
4	Fastener A
5	Fastener B
6	Rear bumper fascia
7	Nut A
8	Nut B
9	Energy absorption foam
10	Rear bumper reinforcement

4. Install in the reverse order of removal.



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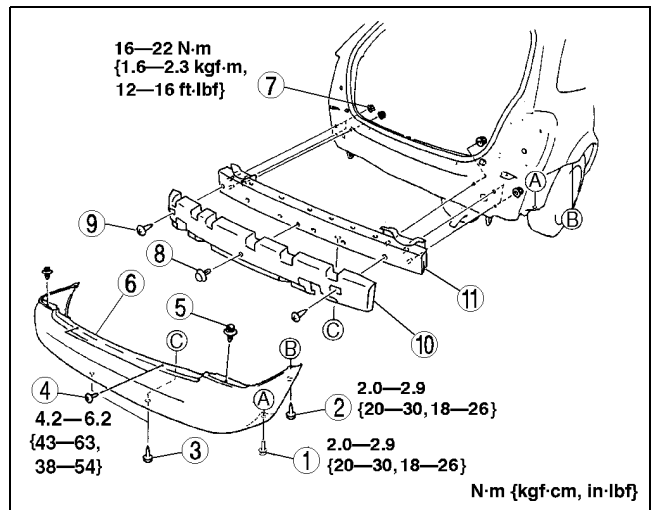
09-10

5HB

1. Disconnect the negative battery cable.
2. Remove the rear combination lights. (See 09-18-10 REAR COMBINATION LIGHT REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Bolt A
2	Screw
3	Fastener A
4	Bolt B
5	Fastener B
6	Rear bumper fascia
7	Nut
8	Fastener C
9	Fastener D
10	Energy absorption foam
11	Rear bumper reinforcement

4. Install in the reverse order of removal.



A3U0910W002

BODY PANELS

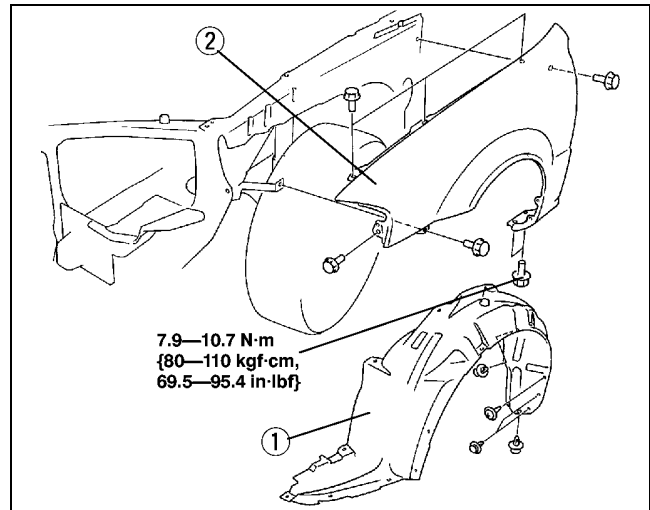
FRONT FENDER PANEL REMOVAL/INSTALLATION

A3U091052110W01

1. Disconnect the negative battery cable.
2. Remove the front combination light. (See 09-18-5 FRONT COMBINATION LIGHT REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Mud guard
2	Front fender panel

4. Install in the reverse order of removal.
5. Adjust the headlight aiming. (See 09-18-5 HEADLIGHT ADJUSTMENT.)



X3U910WAD

09-11 DOORS AND LIFTGATE

FRONT DOOR ADJUSTMENT 09-11-1
 FRONT DOOR
 REMOVAL/INSTALLATION 09-11-1
 Connector Removal Note 09-11-2
 Connector Installation Note 09-11-2
 FRONT DOOR
 DISASSEMBLY/ASSEMBLY 09-11-2
 REAR DOOR ADJUSTMENT 09-11-4

REAR DOOR
 REMOVAL/INSTALLATION 09-11-4
 Connector Removal Note 09-11-5
 Connector Installation Note 09-11-5
 REAR DOOR
 DISASSEMBLY/ASSEMBLY 09-11-5
 LIFTGATE
 REMOVAL/INSTALLATION 09-11-7
 LIFTGATE ADJUSTMENT 09-11-9
 STAY DAMPER DISPOSAL 09-11-9

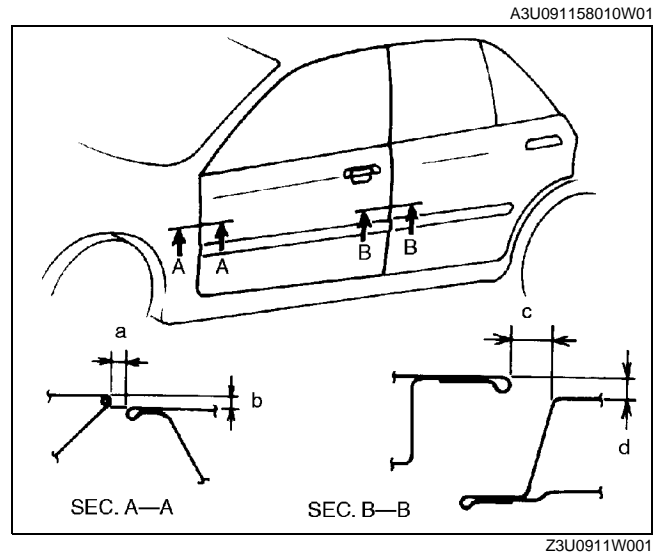
FRONT DOOR ADJUSTMENT

1. Measure the gap and height between the front door and the body.
 - If not as specified, loosen the door hinge installation bolts or the door lock striker installation screws, and reposition the door. (See 09-11-1 FRONT DOOR REMOVAL/INSTALLATION.) (See 09-14-7 DOOR LOCK STRIKER REMOVAL/INSTALLATION.)

Clearance

- a: 3.0—5.0 mm {0.12—0.19 in}
- b: -1.0—1.0 mm {-0.040—0.039 in}
- c: 3.5—5.5 mm {0.14—0.21 in}
- d: -1.0—0.5 mm {-0.040—0.019 in}

2. Tighten the bolts or screws.



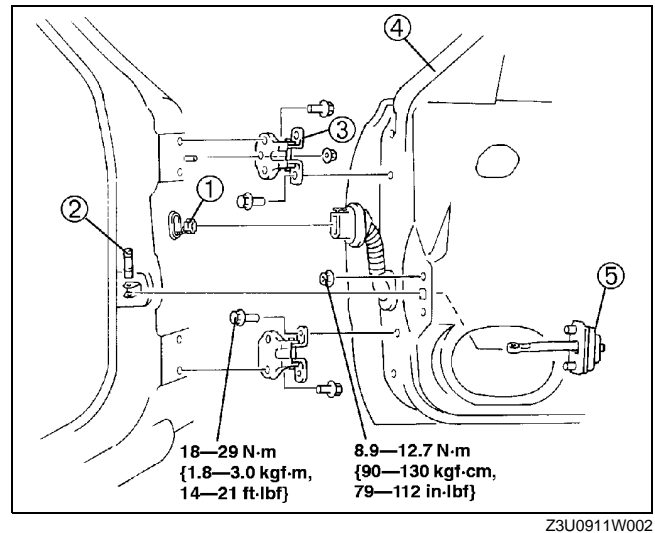
09-11

FRONT DOOR REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. To remove the front door hinge, remove the front fender panel. (See 09-10-8 FRONT FENDER PANEL REMOVAL/INSTALLATION.)
3. To remove the checker, remove the door speaker. (See 09-20-3 FRONT DOOR SPEAKER REMOVAL/INSTALLATION.)
4. Remove in the order indicated in the table.

1	Connector (See 09-11-2 Connector Removal Note) (See 09-11-2 Connector Installation Note)
2	Checker pin
3	Front door hinge
4	Front door
5	Checker

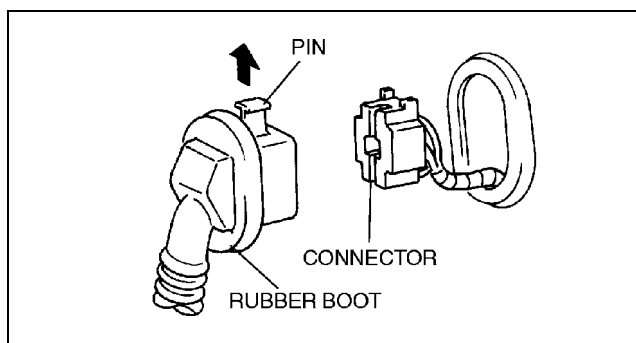
5. Install in the reverse order of removal.
6. Adjust the front door. (See 09-11-1 FRONT DOOR ADJUSTMENT.)



DOORS AND LIFTGATE

Connector Removal Note

1. Push the rubber boot backward.
2. Pull the pin up.
3. Remove the rubber boot from the connector.



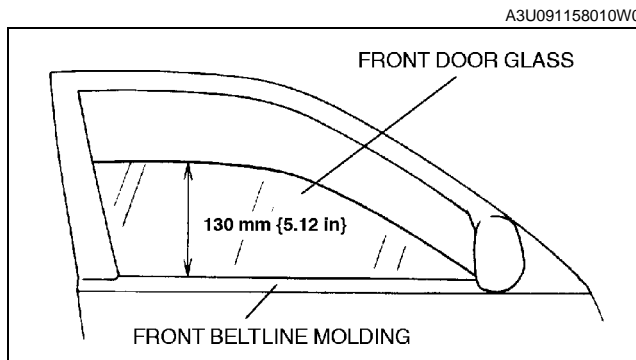
X3U911WA2

Connector Installation Note

1. Connect the connector and the rubber boot.
2. Push the pin down.
3. Install the rubber boot on the body.

FRONT DOOR DISASSEMBLY/ASSEMBLY

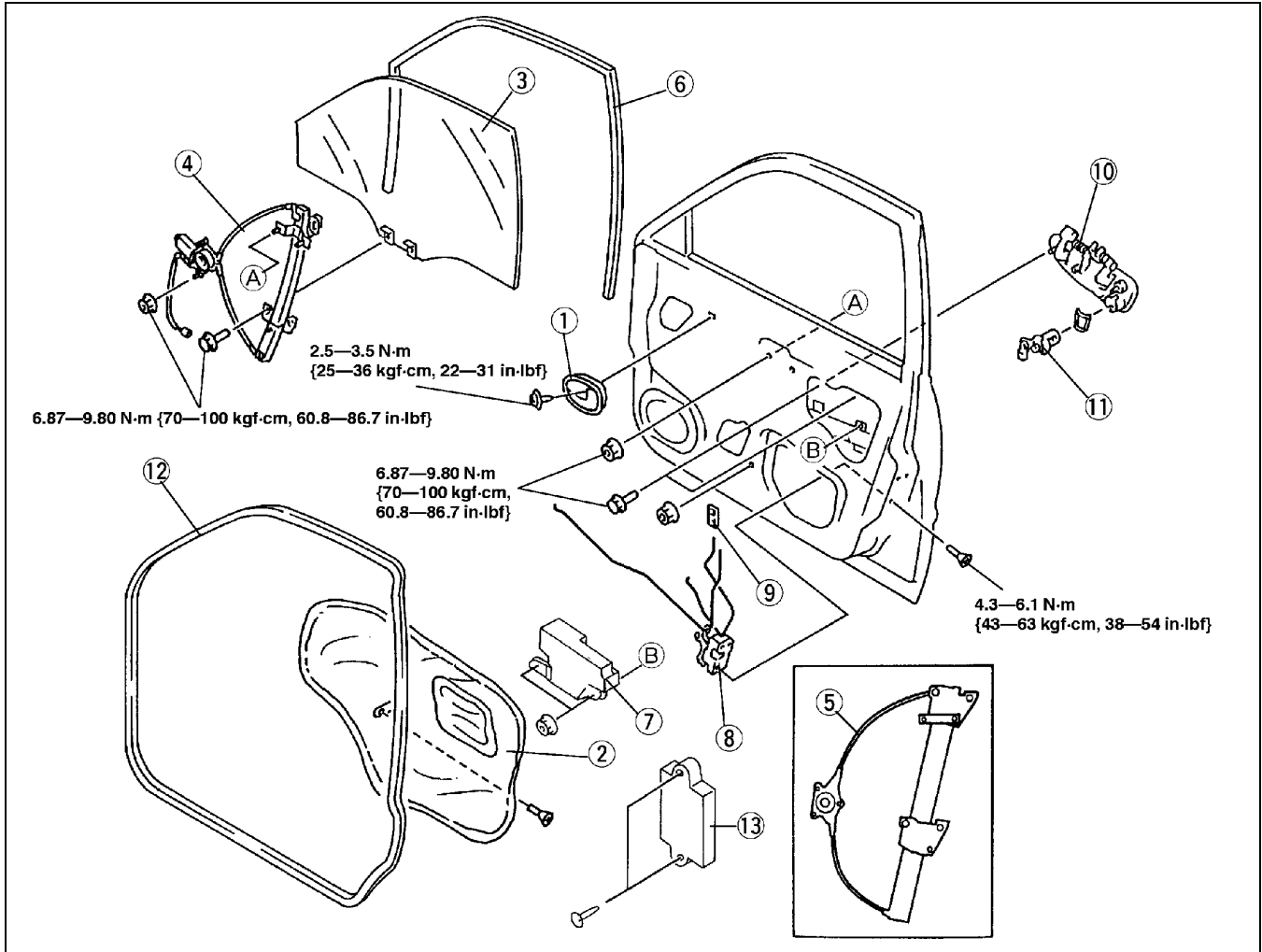
1. Lower or raise the front door glass so that the distance from the top of the front door glass at the rear end to the upper part of the front beltline molding is **130 mm {5.12 in}**.
2. Disconnect the negative battery cable.
3. Remove the front door trim. (See 09-17-9 FRONT DOOR TRIM REMOVAL/INSTALLATION.)



A3U091158010W03
Y3U911W01

DOORS AND LIFTGATE

4. Disassemble in the order indicated in the table.
5. Assemble in the reverse order of disassembly.



X3U911WA3

09-11

1	Inner handle
2	Door screen
3	Front door glass
4	Front power window regulator
5	Front manual window regulator
6	Glass run channel
7	Crush pad A

8	Front door lock
9	Door lock knob
10	Outer handle
11	Door key cylinder
12	Door weatherstrip
13	Crush pad B

DOORS AND LIFTGATE

REAR DOOR ADJUSTMENT

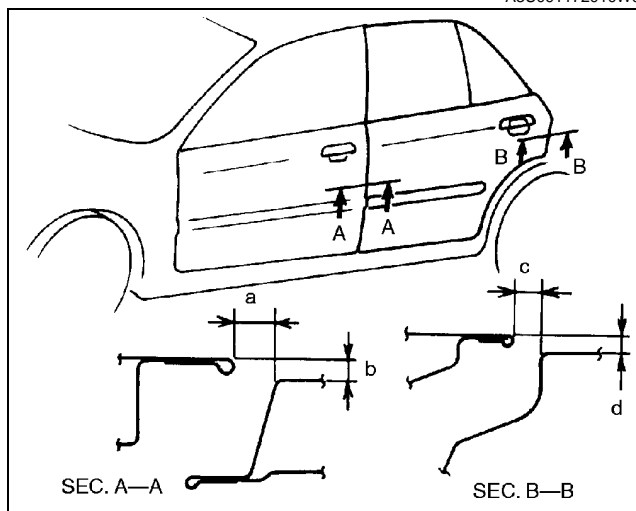
A3U091172010W01

1. Measure the gap and height between the rear door and the body.
 - If not as specified, loosen the door hinge installation bolts or the door lock striker installation screws, and reposition the door. (See 09-11-4 REAR DOOR REMOVAL/INSTALLATION.) (See 09-14-7 DOOR LOCK STRIKER REMOVAL/INSTALLATION.)

Clearance

- a: 3.5—5.5 mm {0.14—0.21 in}
- b: -1.0—0.5 mm {-0.040—0.019 in}
- c: 3.0—5.0 mm {0.12—0.19 in}
- d: -1.0—1.0 mm {-0.040—0.039 in}

2. Tighten the bolts or screws.



Z3U0911W004

REAR DOOR REMOVAL/INSTALLATION

A3U091172010W02

Warning

- Handling the side air bag sensor improperly can accidentally deploy the side air bag module, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before working around the B-pillar areas. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

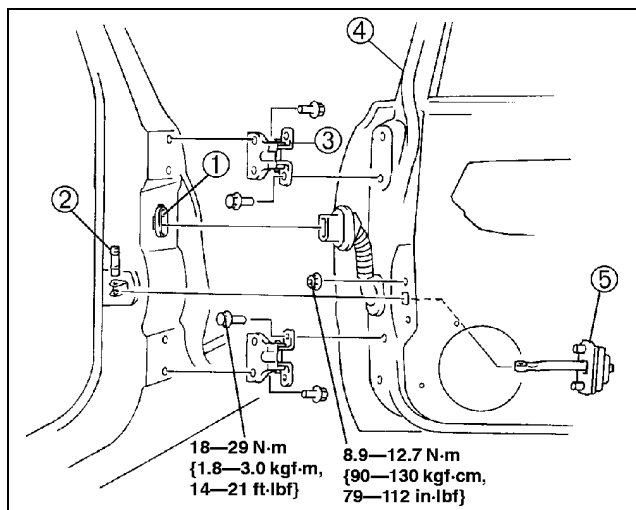
Note

- The side air bag sensor is located in the B-pillar.

1. Disconnect the negative battery cable.
2. To remove the checker, turn the door screen over.
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.

1	Connector (See 09-11-5 Connector Removal Note) (See 09-11-5 Connector Installation Note)
2	Checker pin
3	Rear door hinge
4	Rear door
5	Checker

5. Adjust the rear door. (See 09-11-4 REAR DOOR ADJUSTMENT.)

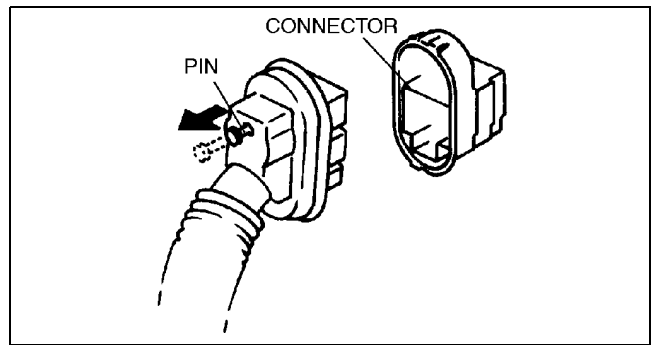


Z3U0911W003

DOORS AND LIFTGATE

Connector Removal Note

1. Pull the pin outward.
2. Disconnect the connector.



X3U911WA6

Connector Installation Note

1. Push the pin in.
2. Connect the connector.
3. Push the pin in again.

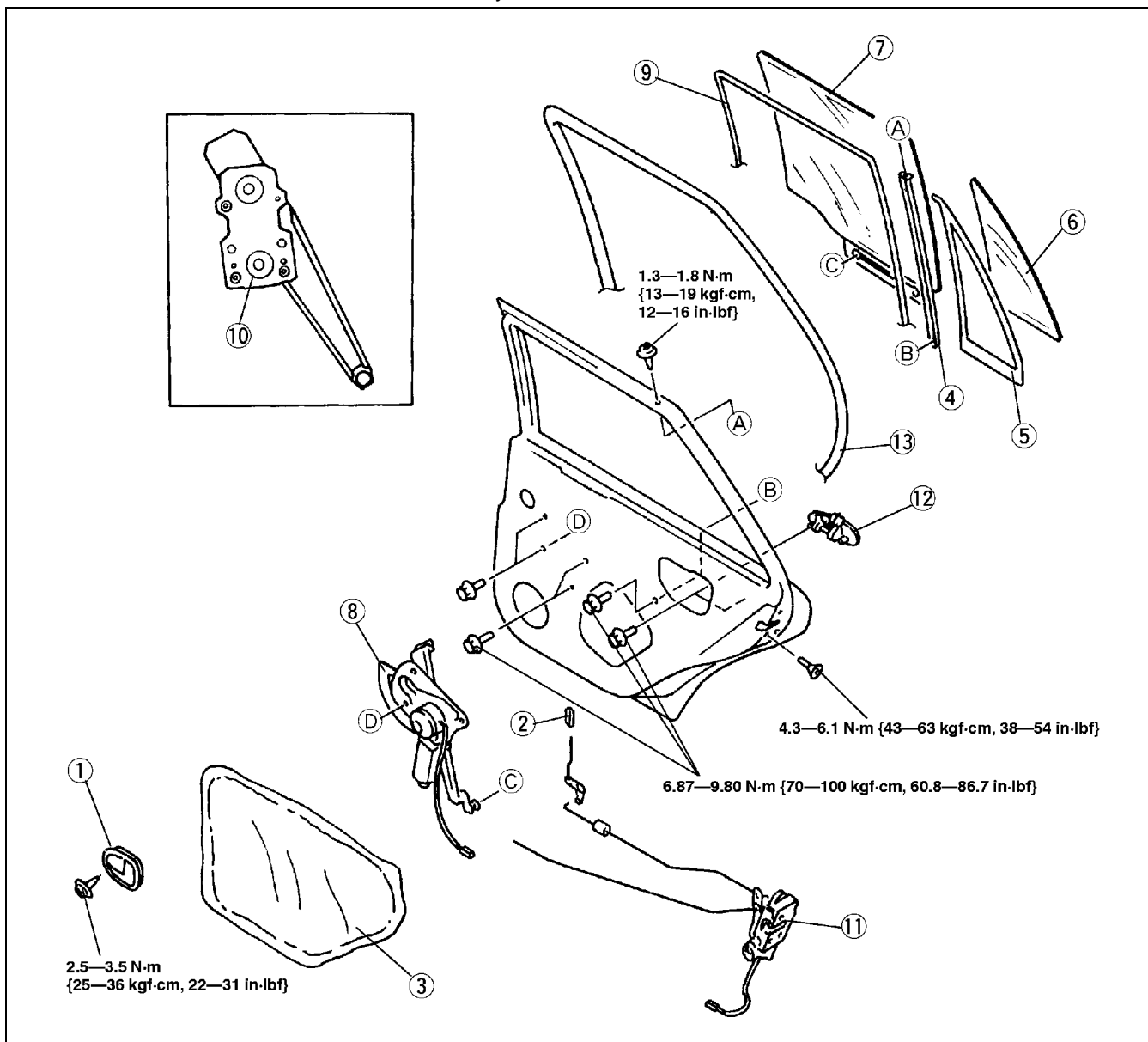
REAR DOOR DISASSEMBLY/ASSEMBLY

1. Open the rear door glass completely.
2. Disconnect the negative battery cable.
3. Remove the rear door trim. (See 09-17-9 REAR DOOR TRIM REMOVAL/INSTALLATION.)
4. Disassemble in the order indicated in the table.

A3U091172010W03

DOORS AND LIFTGATE

5. Assemble in the reverse order of disassembly.



X3U911WA7

1	Inner handle
2	Door lock knob
3	Door screen
4	Glass guide
5	Door quarter window glass weatherstrip
6	Door quarter window glass
7	Rear door glass

8	Rear power window regulator
9	Glass run channel
10	Rear manual window regulator
11	Rear door lock
12	Outer handle
13	Door weatherstrip

DOORS AND LIFTGATE

LIFTGATE REMOVAL/INSTALLATION

A3U091162010W01

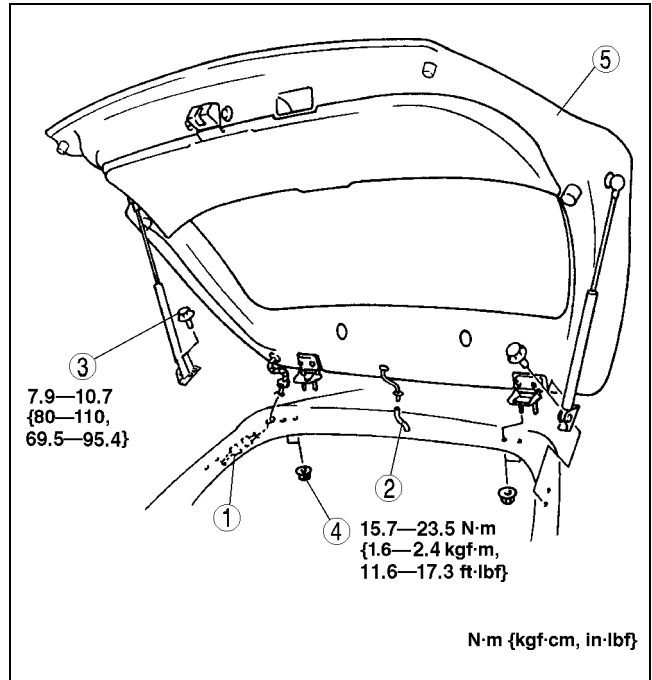
Warning

- Removing the stay damper without supporting the liftgate can be dangerous. The liftgate may fall and injure you. Open the liftgate fully and support it before removing the stay damper.

1. Disconnect the negative battery cable.
2. Remove the headliner. (See 09-17-16 HEADLINER REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Connector
2	Rear washer hose
3	Bolt
4	Nut
5	Liftgate

4. Install in the reverse order of removal.
5. Adjust the liftgate. (See 09-11-9 LIFTGATE ADJUSTMENT)



A3U0911W001

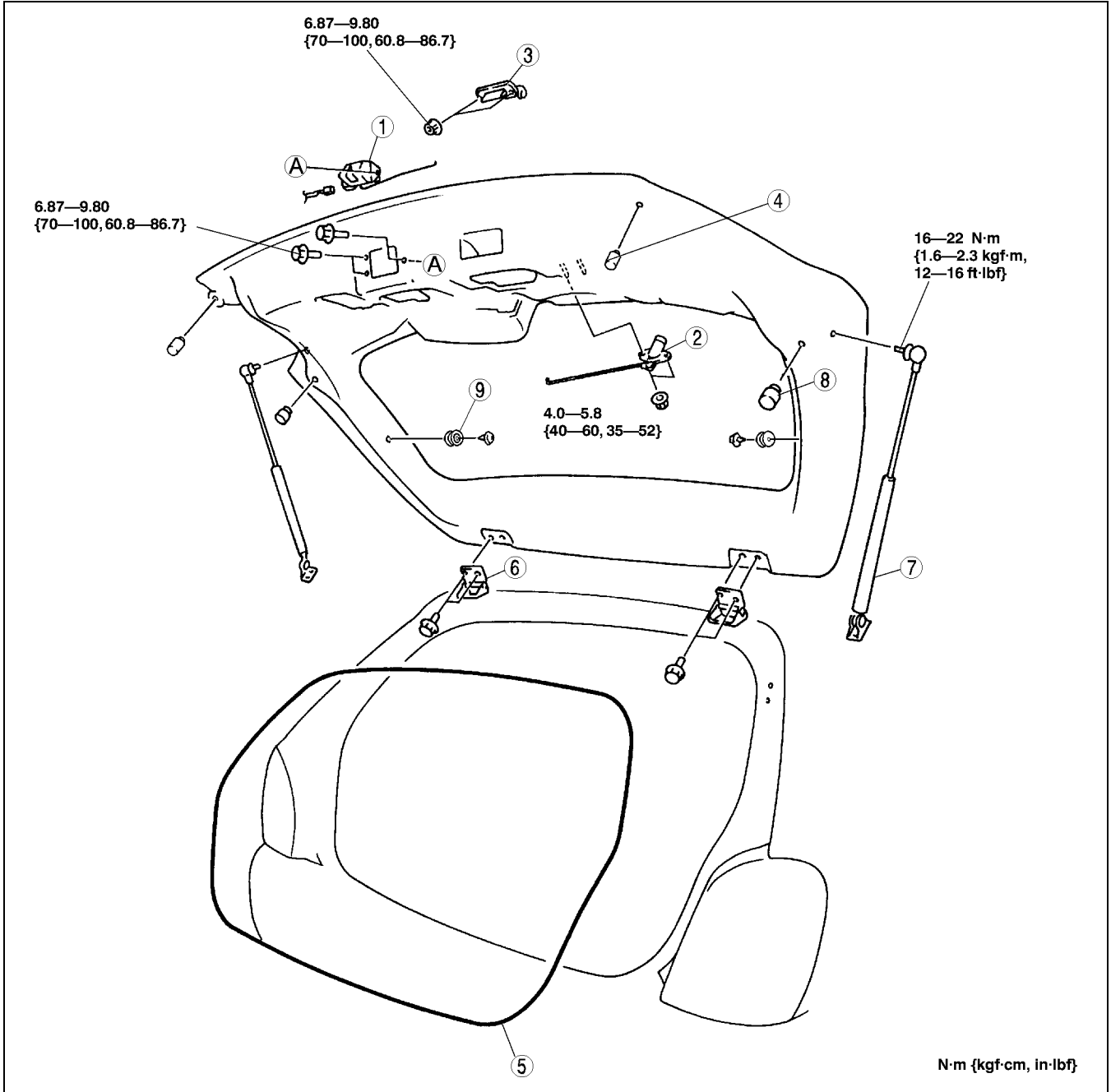
09-11

DOORS AND LIFTGATE

A3U091162010W02

LIFTGATE DISASSEMBLY/ASSEMBLY

1. Disconnect the negative battery cable.
2. Remove the liftgate trim.
3. Disassemble in the order indicated in the table.
4. Assemble in the reverse order of disassembly.



A3U0911W002

1	Liftgate lock
2	Liftgate lock cylinder
3	Liftgate outer handle
4	Stop rubber A
5	Liftgate weatherstrip

6	Liftgate hinge
7	Stay damper
8	Stop rubber B
9	Strap hanger

DOORS AND LIFTGATE

LIFTGATE ADJUSTMENT

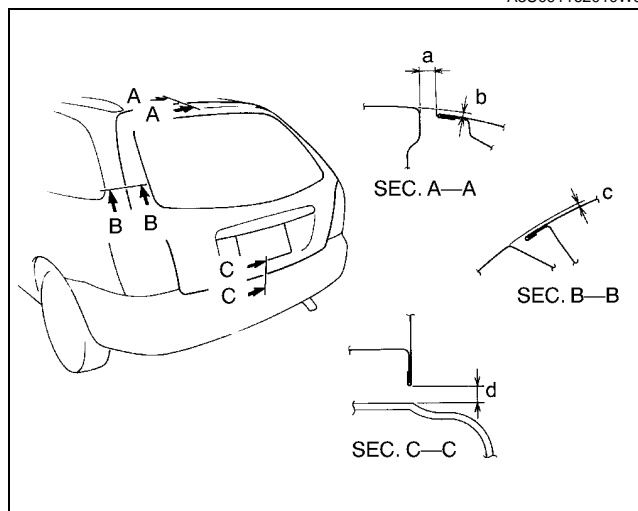
A3U091162010W03

1. Measure the gap and height between the liftgate and the body.
2. To measure the distance d, measure **within 484 mm {19.1 in}** right and left from the center of the liftgate.

Clearance

- a: 7.5—9.5 mm {0.30—0.37 in}
- b: -0.5—1.5 mm {-0.019—0.059 in}
- c: -0.7—1.7 mm {-0.027—0.066 in}
- d: 4.3—10.3 mm {0.17—0.41 in}

3. Loosen the liftgate hinge installation bolts or the liftgate striker installation screws, and reposition the liftgate.
4. Tighten the bolts or screws.



A3U0911W004

STAY DAMPER DISPOSAL

A3U091162620W01

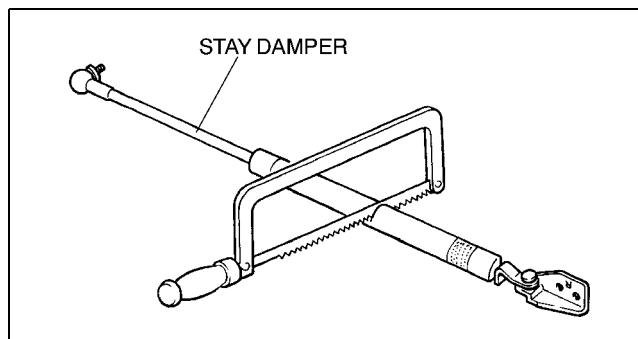
Warning

- Sawing through the stay damper body can cause metal shavings and filings to fly out, causing injury to the eyes. Wear protective eye wear whenever sawing through a stay damper before discarding it.

Note

- The gas in the stay damper is colorless, odorless, and non-toxic.

1. Lay the stay damper flat.
2. Saw through the stay damper body using a hacksaw.
3. Allow the gas to escape from the stay damper.
4. Discard the stay damper.



A3U0911W003

09-12 GLASS/WINDOWS/MIRRORS

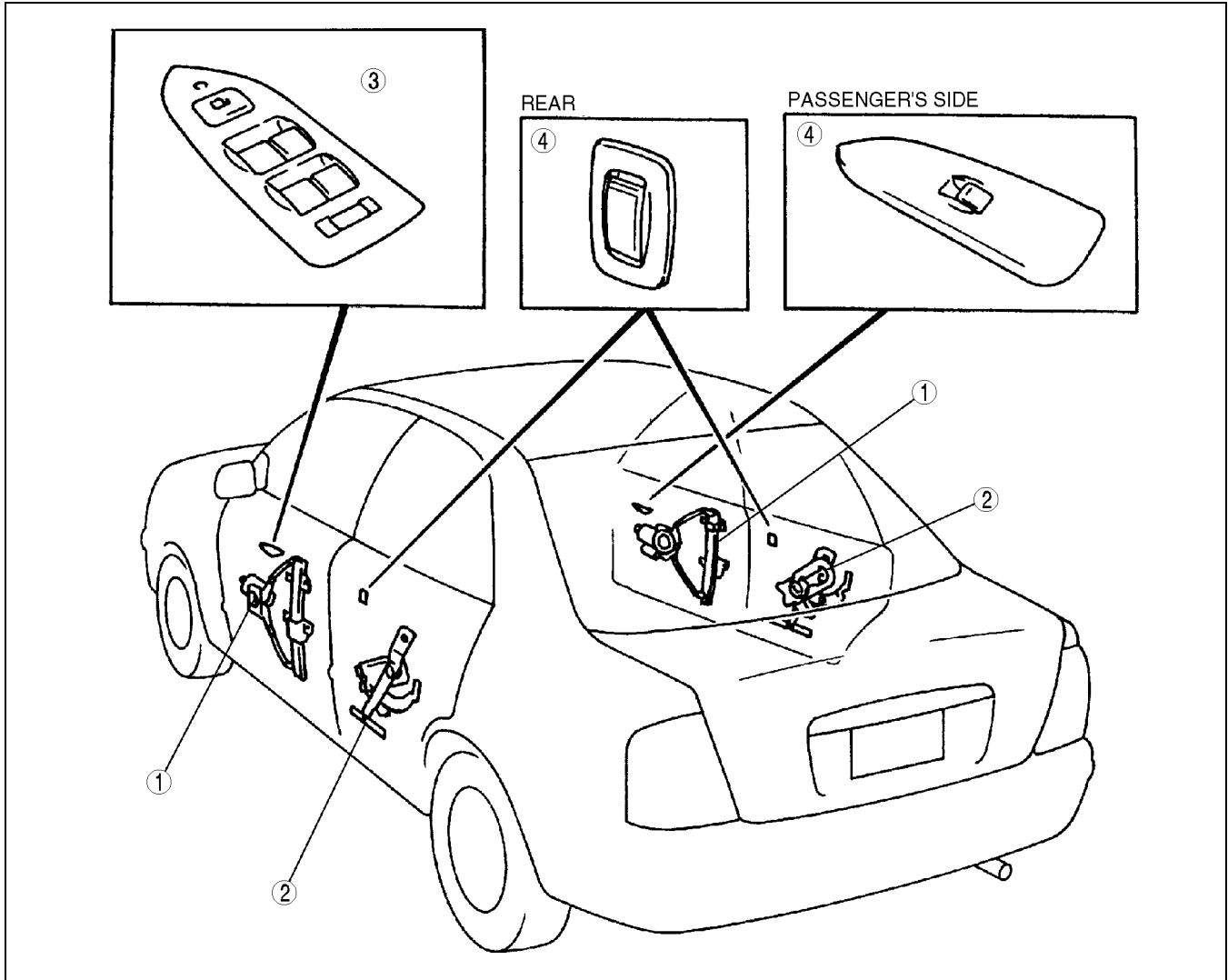
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GLASS/WINDOWS/MIRRORS

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A3U091201048W01

Power Window System

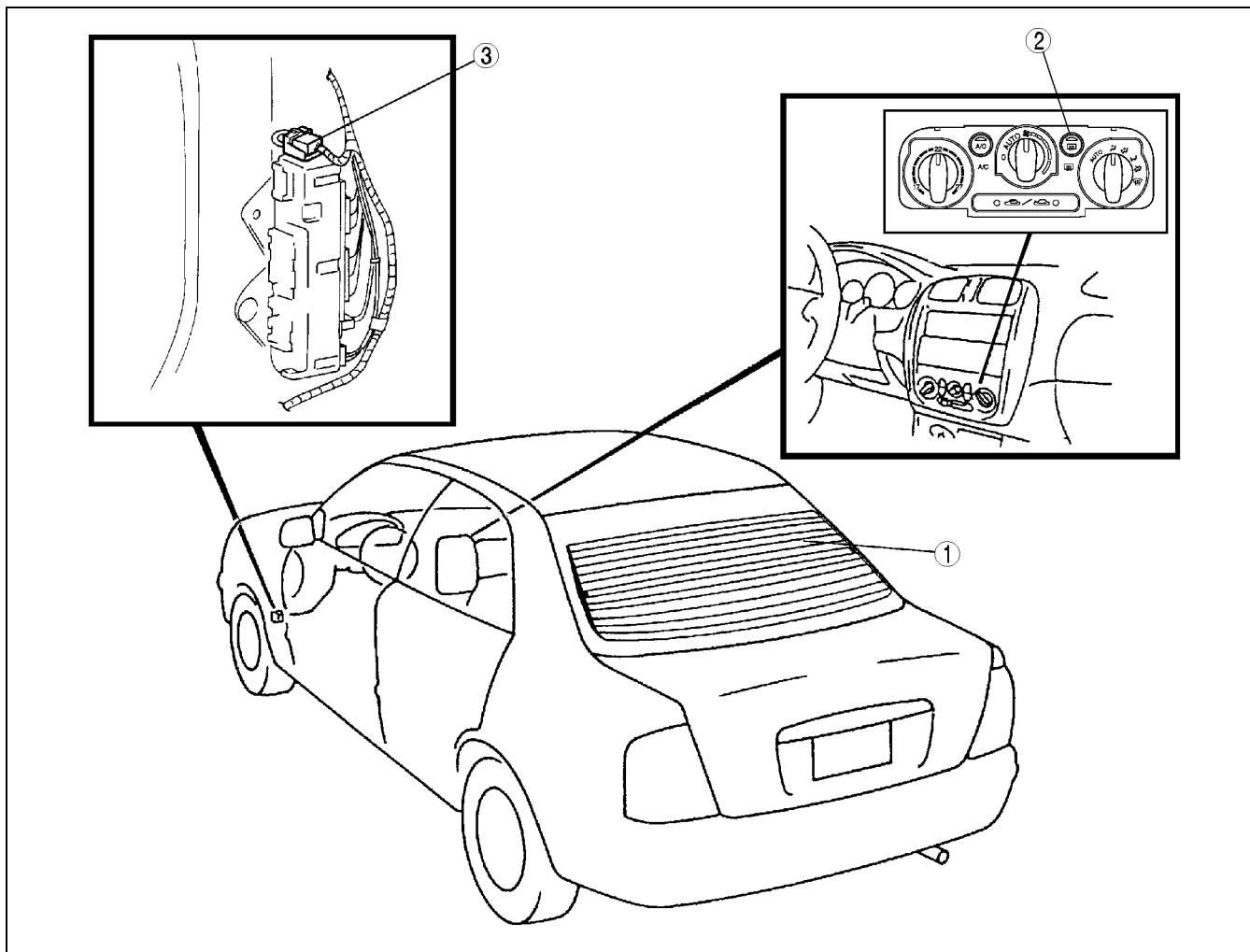


Z3U0912W015

1	<p>Front power window regulator (See 09-12-5 POWER WINDOW MOTOR INSPECTION) (See 09-12-5 FRONT POWER WINDOW REGULATOR REMOVAL/INSTALLATION) (See 09-12-5 FRONT POWER WINDOW REGULATOR DISASSEMBLY/ASSEMBLY)</p>
2	<p>Rear power window regulator (See 09-12-5 POWER WINDOW MOTOR INSPECTION) (See 09-12-6 REAR POWER WINDOW REGULATOR REMOVAL/INSTALLATION) (See 09-12-6 REAR POWER WINDOW REGULATOR DISASSEMBLY/ASSEMBLY)</p>

3	<p>Power window main switch (See 09-12-8 POWER WINDOW MAIN SWITCH INSPECTION) (See 09-12-7 POWER WINDOW MAIN SWITCH REMOVAL/INSTALLATION)</p>
4	<p>Power window subswitch (See 09-12-10 POWER WINDOW SUBSWITCH INSPECTION) (See 09-12-9 POWER WINDOW SUBSWITCH REMOVAL/INSTALLATION)</p>

Rear Window Defroster



Z3U0912W016

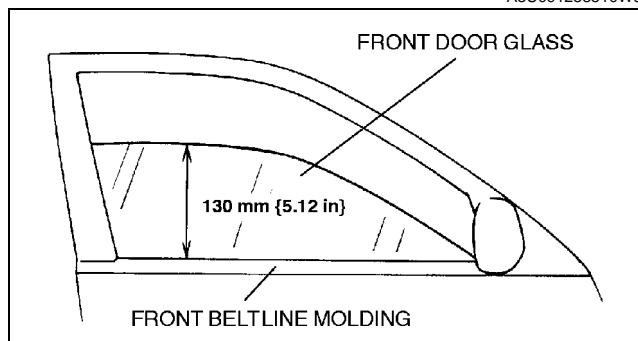
1	Filament (See 09-12-27 FILAMENT INSPECTION) (See 09-12-28 FILAMENT REPAIR)
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2	Rear window defroster switch (See 07-40-10 CLIMATE CONTROL UNIT DISASSEMBLY/ASSEMBLY) (See 07-40-11 CLIMATE CONTROL UNIT INSPECTION)
3	Rear window defroster relay (See 09-21-5 RELAY INSPECTION)

FRONT DOOR GLASS AND GUIDE REMOVAL/INSTALLATION

A3U091258510W01

1. Lower or raise the front door glass so that the distance from the top of the front door glass at the rear end to the upper part of the front beltline molding is **130 mm {5.12 in}**.
2. Disconnect the negative battery cable.
3. Remove the front door trim. (See 09-17-9 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
4. Remove the inner handle.



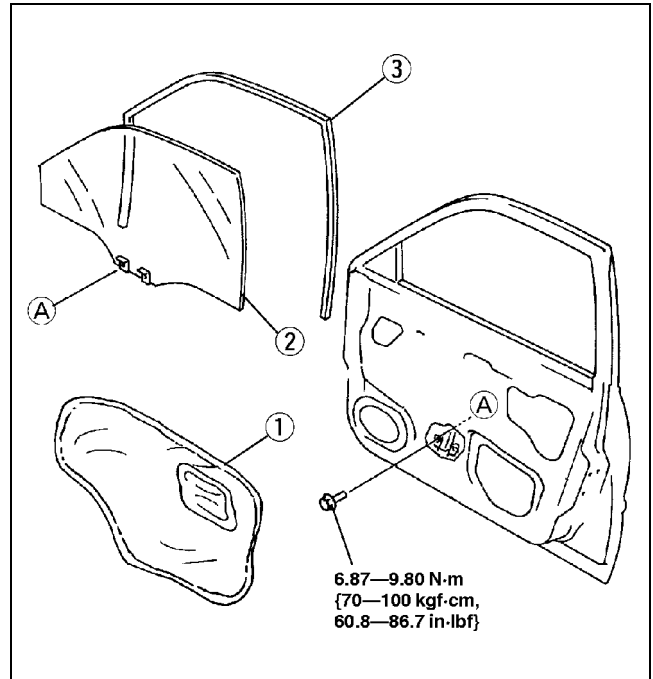
Y3U912WAJ

GLASS/WINDOWS/MIRRORS

5. Remove in the order indicated in the table.

1	Door screen
2	Front door glass
3	Glass run channel

6. Install in the reverse order of removal.



X3U912WB7

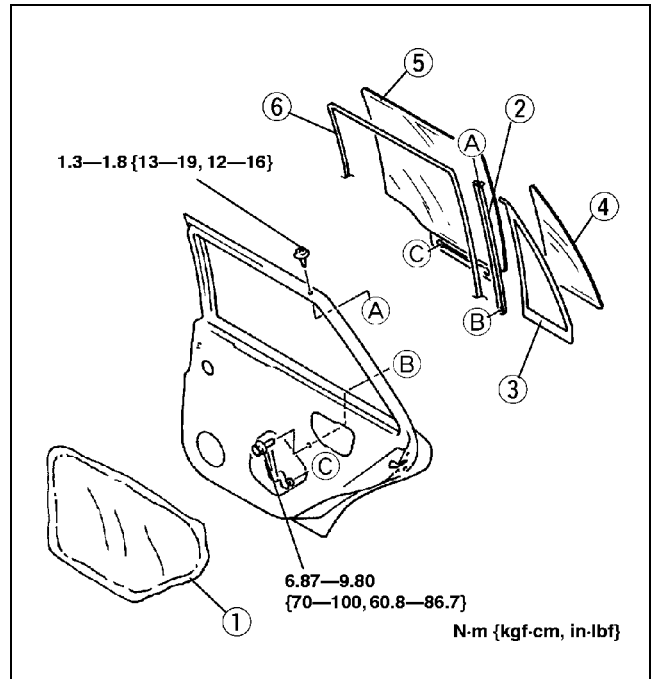
REAR DOOR GLASS AND GUIDE REMOVAL/INSTALLATION

A3U091272510W01

1. Open the rear door glass completely.
2. Disconnect the negative battery cable.
3. Remove the rear door trim. (See 09-17-9 REAR DOOR TRIM REMOVAL/INSTALLATION.)
4. Remove the inner handle.
5. Remove in the order indicated in the table.

1	Door screen
2	Glass guide
3	Door quarter window glass weatherstrip
4	Door quarter window glass
5	Rear door glass
6	Glass run channel

6. Install in the reverse order of removal.



X3U912WB8

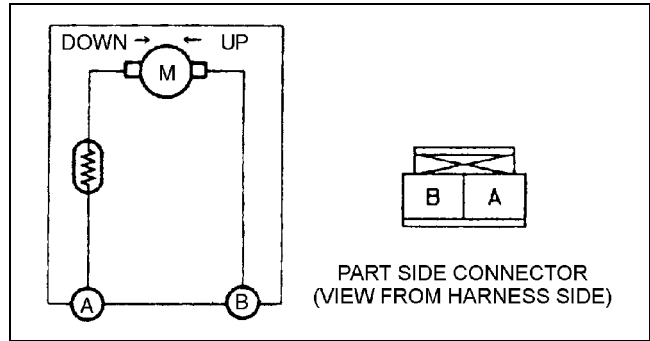
GLASS/WINDOWS/MIRRORS

POWER WINDOW MOTOR INSPECTION

A3U091258581W01

1. Remove the power window motor. (See 09–12–5 FRONT POWER WINDOW REGULATOR DISASSEMBLY/ASSEMBLY.) (See 09–12–6 REAR POWER WINDOW REGULATOR DISASSEMBLY/ASSEMBLY.)
2. Apply battery positive voltage to the power window motor terminals and inspect the operation of the power window motor.
 - If not as specified, replace the power window motor.

Terminal		Motor operation
A	B	
GND	B+	UP
B+	GND	DOWN



Y3U912WA0

FRONT POWER WINDOW REGULATOR REMOVAL/INSTALLATION

A3U091258560W01

1. Disconnect the negative battery cable.
2. Remove the front door glass. (See 09–12–3 FRONT DOOR GLASS AND GUIDE REMOVAL/INSTALLATION.)
3. Disconnect the front power window regulator connector.
4. Remove the bolts and the nuts, then remove the front power window regulator.

Tightening torque

6.87—9.80 N·m {70—100 kgf·cm, 60.8—86.7 in·lbf}

5. Install in the reverse order of removal.

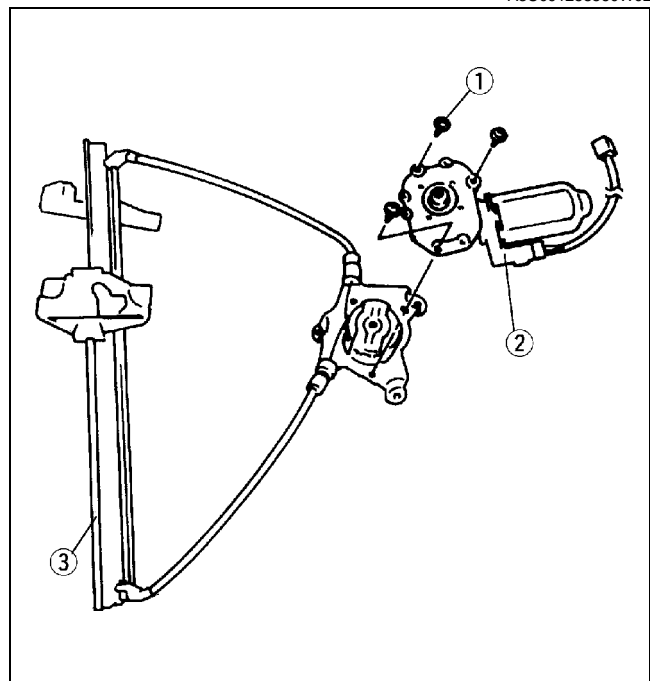
FRONT POWER WINDOW REGULATOR DISASSEMBLY/ASSEMBLY

A3U091258560W02

1. Disassemble in the order indicated in the table.

1	Screw
2	Power window motor (See 09–12–6 Power Window Motor Disassembly Note)
3	Frame

2. Assemble in the reverse order of disassembly.

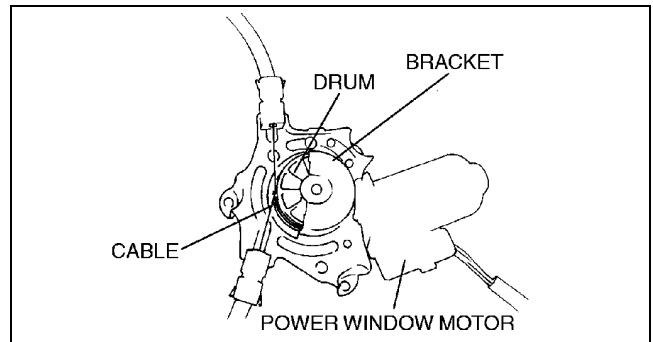


X3U912WC0

GLASS/WINDOWS/MIRRORS

Power Window Motor Disassembly Note

1. Hold the drum and the cable with the bracket to prevent them from being pulled out with the power window motor.



X3U912WC1

FRONT MANUAL WINDOW REGULATOR REMOVAL/INSTALLATION

A3U091258561W01

1. Remove the front door glass. (See 09-12-3 FRONT DOOR GLASS AND GUIDE REMOVAL/INSTALLATION.)
2. Remove the bolts and the nuts, then remove the front manual window regulator.

Tightening torque

6.87—9.80 N·m {70—100 kgf·cm, 60.8—86.7 in·lbf}

3. Install in the reverse order of removal.

REAR POWER WINDOW REGULATOR REMOVAL/INSTALLATION

A3U091272560W01

1. Disconnect the negative battery cable.
2. Remove the rear door glass. (See 09-12-4 REAR DOOR GLASS AND GUIDE REMOVAL/INSTALLATION.)
3. Disconnect the rear power window regulator.
4. Remove the bolts, then remove the rear power window regulator.

Tightening torque

6.87—9.80 N·m {70—100 kgf·cm, 60.8—86.7 in·lbf}

5. Install in the reverse order of removal.

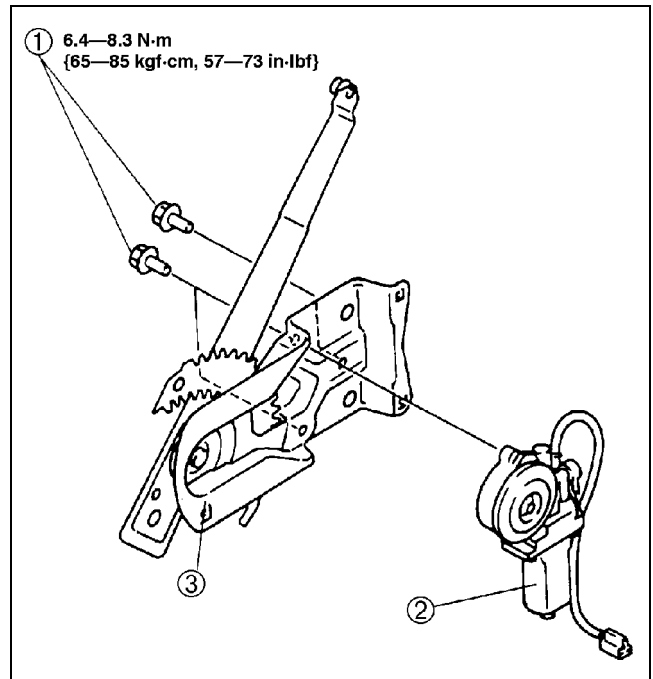
REAR POWER WINDOW REGULATOR DISASSEMBLY/ASSEMBLY

A3U091272560W02

1. Disassemble in the order indicated in the table.

1	Bolt
2	Power window motor (See 09-12-7 Power Window Motor Disassembly Note) (See 09-12-7 Power Window Motor Assembly Note)
3	Frame

2. Assemble in the reverse order of disassembly.

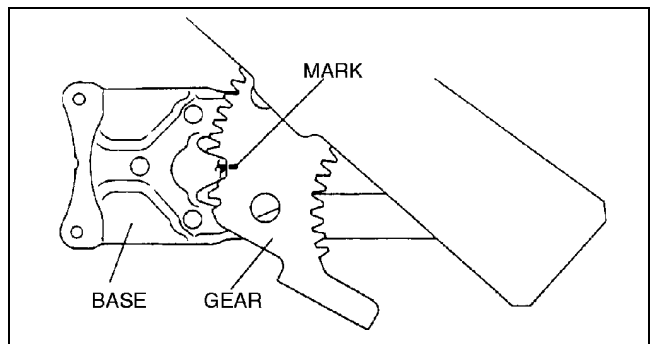


Y3U912WA1

GLASS/WINDOWS/MIRRORS

Power Window Motor Disassembly Note

1. Make marks on the gear and the base before disassembling the power window motor.



X3U912WC3

Power Window Motor Assembly Note

1. Align the marks on the gear and the base before assembling the power window motor.

REAR MANUAL WINDOW REGULATOR REMOVAL/INSTALLATION

A3U091272561W01

1. Remove the rear door glass. (See 09-12-4 REAR DOOR GLASS AND GUIDE REMOVAL/INSTALLATION.)
2. Remove the bolts, then remove the rear manual window regulator.

Tightening torque

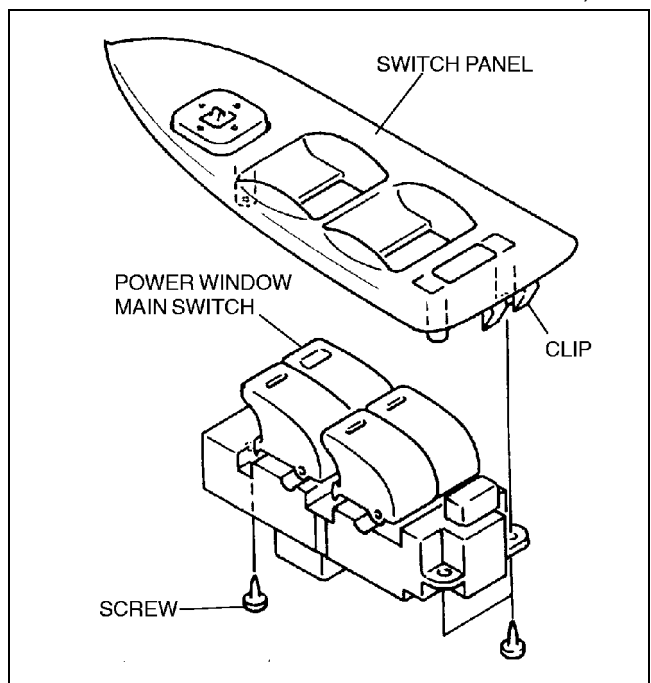
6.87—9.80 N·m {70—100 kgf·cm, 60.8—86.7 in·lbf}

3. Install in the reverse order of removal.

POWER WINDOW MAIN SWITCH REMOVAL/INSTALLATION

A3U091266350W01

1. Disconnect the negative battery cable.
2. Remove the driver-side front door trim. (See 09-17-9 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
3. Push out the clip from the reverse side of the trim, and remove the switch panel.
4. Remove the screw, and remove the power window main switch.
5. Install in the reverse order of removal.



X3U912WC4

GLASS/WINDOWS/MIRRORS

A3U091266350W02

POWER WINDOW MAIN SWITCH INSPECTION

1. Remove the power window main switch. (See 09–12–7 POWER WINDOW MAIN SWITCH REMOVAL/INSTALLATION.)
2. When inspecting the passenger's side and the rear, turn the power-cut switch to ON.
3. Inspect for continuity between the power window main switch terminals using an ohmmeter.
 - If not as specified, replace the power window main switch.

Driver's side

○—○ : Continuity

Switch position	Terminal			
	F	H	J	L
CLOSE	○	○—○	○	○
OFF		○—○	○—○	○—○
MANUAL OPEN AUTO OPEN	○	○—○	○	○

Z3U0912W003

Passenger's side

○—○ : Continuity

Switch position	Terminal			
	F	H	B	D
CLOSE	○	○—○	○	○
OFF		○—○	○—○	○—○
OPEN	○	○—○	○	○

Z3U0912W004

Rear left

○—○ : Continuity

Switch position	Terminal			
	F	H	I	K
CLOSE	○	○—○	○	○
OFF		○—○	○—○	○—○
OPEN	○	○—○	○	○

Z3U0912W005

Rear right

○—○ : Continuity

Switch position	Terminal			
	F	H	A	C
CLOSE	○	○—○	○	○
OFF		○—○	○—○	○—○
OPEN	○	○—○	○	○

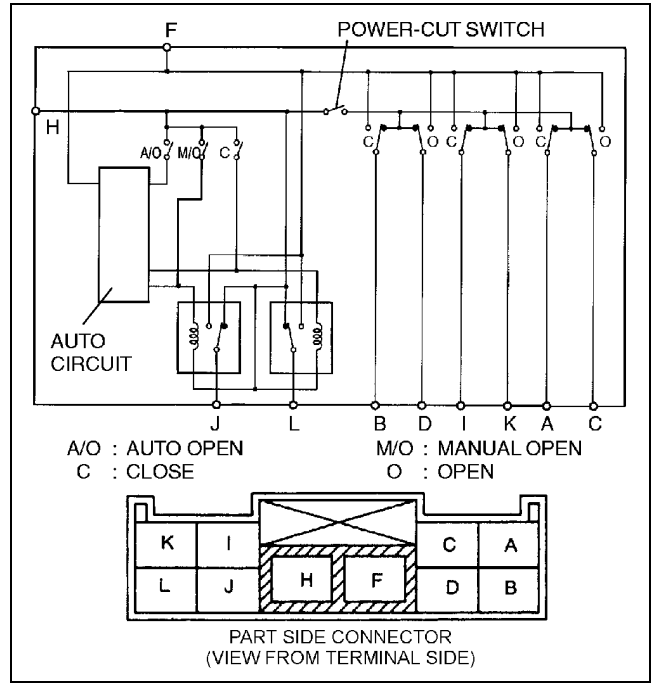
Z3U0912W006

Power-cut switch

○—○ : Continuity

Switch position	Terminal								
	H	J	L	B	D	I	K	A	C
ON	○—○	○—○	○—○	○—○	○—○	○—○	○—○	○—○	○—○
OFF	○—○	○—○	○—○	○—○	○—○	○—○	○—○	○—○	○—○

Z3U0912W007



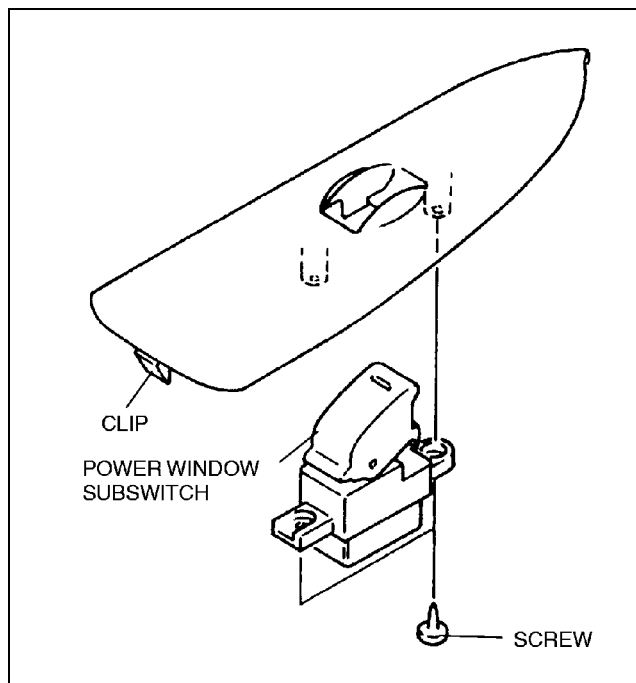
Y3U912WA2

POWER WINDOW SUBSWITCH REMOVAL/INSTALLATION

A3U091266370W01

Passenger's side

1. Disconnect the negative battery cable.
2. Remove the passenger-side front door trim. (See 09-17-9 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
3. Push out the clip from the reverse side of the trim, and remove the switch panel.
4. Remove the screw, and remove the power window subswitch.
5. Install in the reverse order of removal.

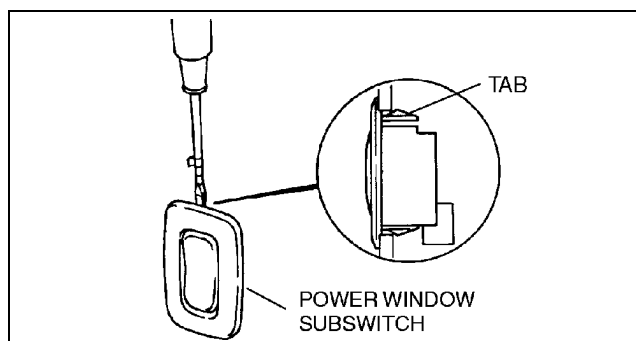


X3U912WD0

09-12

Rear

1. Disconnect the negative battery cable.
2. Remove the tab by inserting a tape-wrapped, flathead screwdriver between the switch and the rear door trim.
3. Disconnect the connector, and remove the power window subswitch.
4. Install in the reverse order of removal.



Y3U912WAK

GLASS/WINDOWS/MIRRORS

POWER WINDOW SUBSWITCH INSPECTION

A3U091266370W02

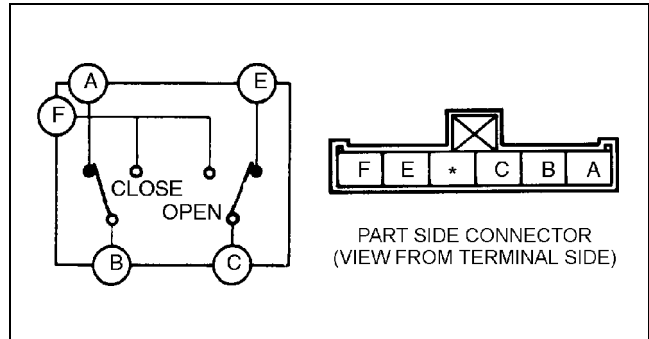
1. If inspecting the passenger's side, remove the switch panel.
2. If inspecting the rear, remove the power window subswitch.
3. Inspect for continuity between the power window subswitch terminals using an ohmmeter.
 - If not as specified, replace the power window subswitch.

Passenger's side

○—○ : Continuity

Switch position	Terminal				
	A	B	C	E	F
CLOSE		○—○	○—○		○—○
OFF	○—○		○—○	○—○	
OPEN	○—○		○—○		○—○

Z3U0912W008



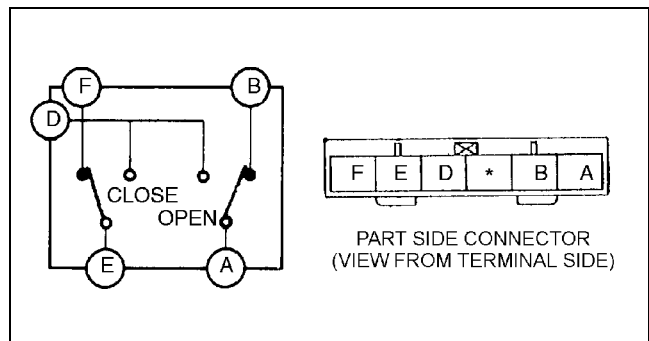
Y3U912WA3

Rear

○—○ : Continuity

Switch position	Terminal				
	A	B	D	E	F
CLOSE	○—○		○—○	○—○	
OFF	○—○			○—○	○—○
OPEN	○—○		○—○	○—○	○—○

Z3U0912W009

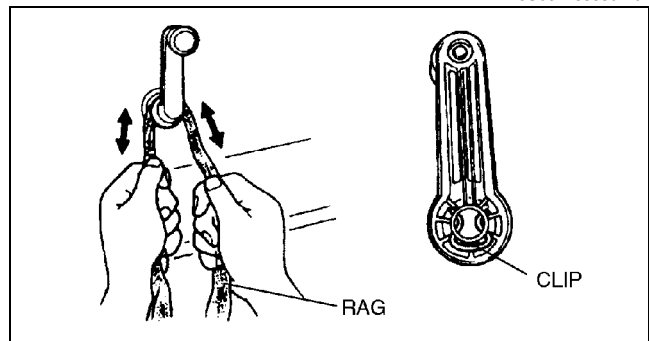


Y3U912WA4

REGULATOR HANDLE REMOVAL

A3U091258580W01

1. Remove the regulator handle clip using a rag as shown.

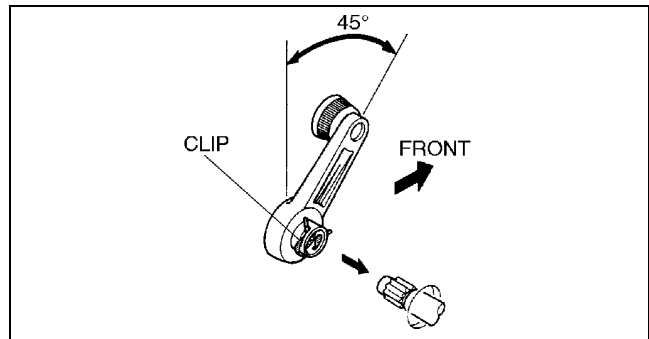


X3U912WD5

REGULATOR HANDLE INSTALLATION

A3U091258580W02

1. Install the clip in the regulator handle.
2. Close the door glass fully and push the regulator handle on as shown.



Z3U0912W002

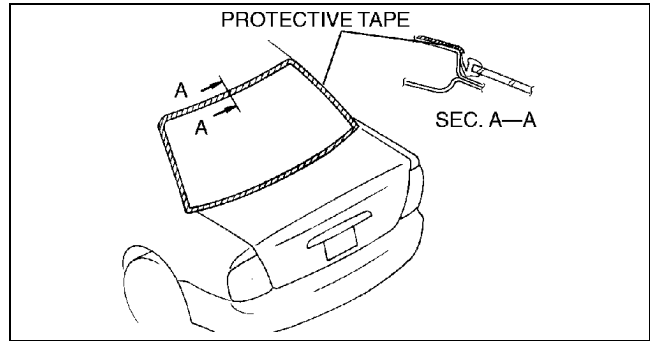
GLASS/WINDOWS/MIRRORS

REAR WINDOW GLASS REMOVAL

A3U091263931W01

4SD

1. Remove the headliner. (See 09-17-16 HEADLINER REMOVAL/INSTALLATION.)
2. Apply protective tape along the edge of body to protect it from damage.



X3U912WAP

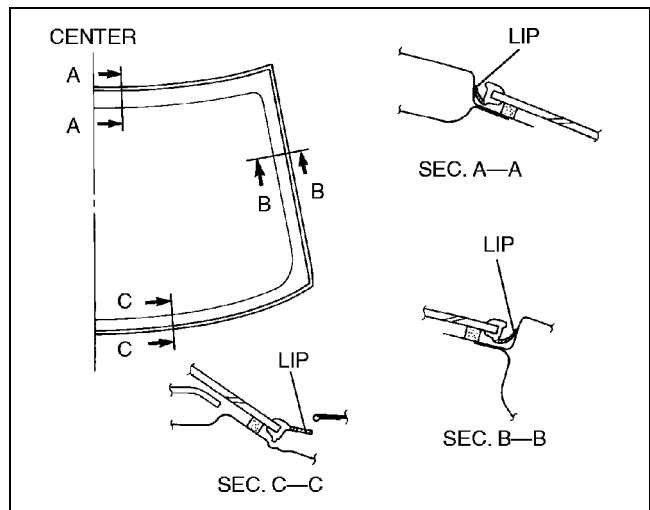
3. Remove the lip of the rear window molding using a razor.

Warning

- Using a razor with bare hands can cause injury. Always wear gloves when using a razor.

Note

- The rear window molding is a replacement part.



A3U0912W0101

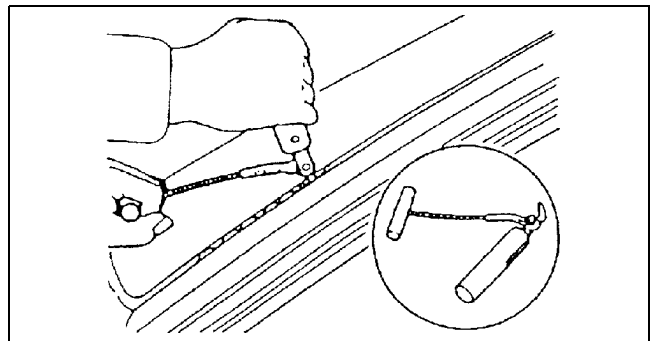
Not Reusing Rear Window Glass

1. Use a tool like that shown in the figure, and insert the blade into the sealant.

Note

- For the areas of the sealant that are difficult to cut, use the **SST** (piano wire) and follow the procedures under "Reusing rear window glass".

2. Pull through the sealant around the edge of the glass.
3. Remove the glass.



X3U912WAR

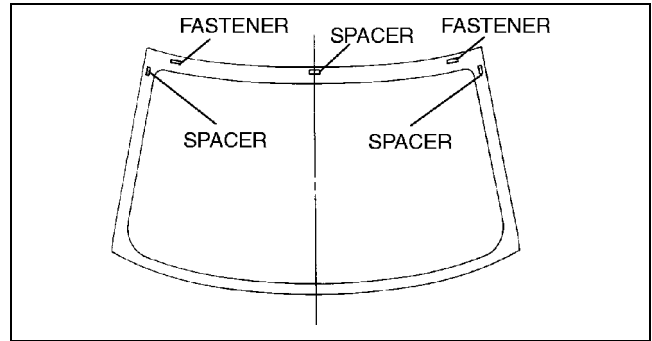
Reusing Rear Window Glass

Note

- Before removing the rear window glass from the body, mark the position of the rear window glass by affixing tape to the windshield and body panel.

GLASS/WINDOWS/MIRRORS

1. Use an awl to saw through the sealant, except where there are fasteners and spacers, from the inside of the vehicle.



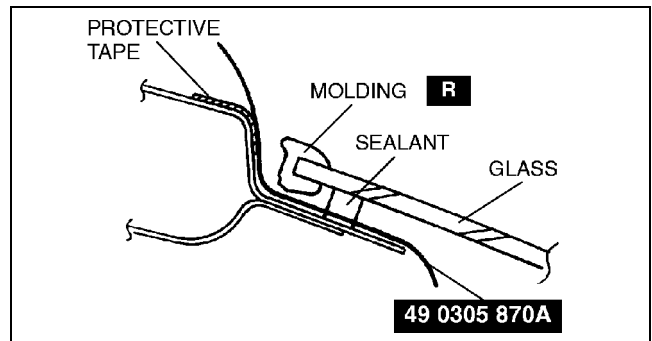
X3U912WAS

2. Pass the **SST** (piano wire) through the hole.

Warning

- Using a **SST** (piano wire) with bare hands can cause injury. Always wear gloves when using a **SST** (piano wire).

3. Wind each end of the wire around a bar.



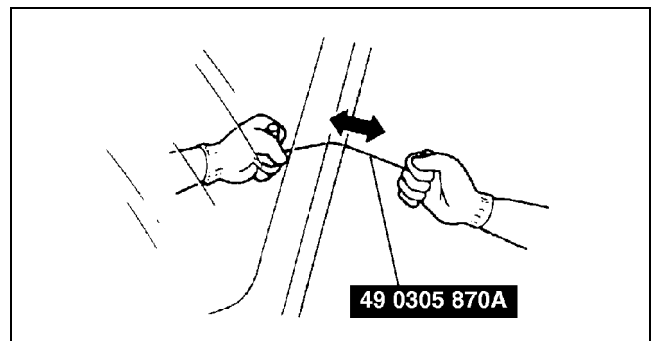
X3U912WAT

4. Working with another person, saw through the sealant around the edge of the glass, being careful not to damage the body.

Note

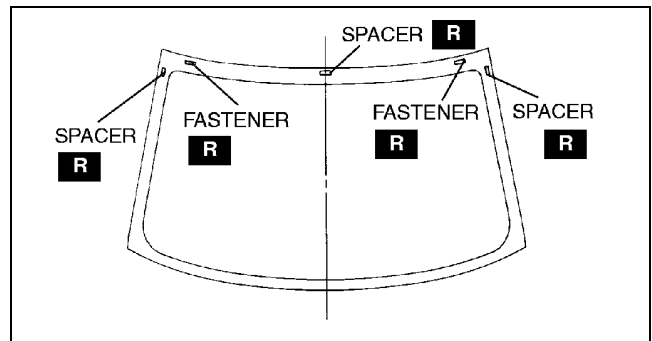
- Use a long sawing action to spread the work over the whole length of the **SST** (piano wire) to prevent it from breaking.

5. Remove the rear window glass.



X3U912WAU

6. Remove the spacers and fasteners.
7. Remove the rear window molding from the rear window glass.



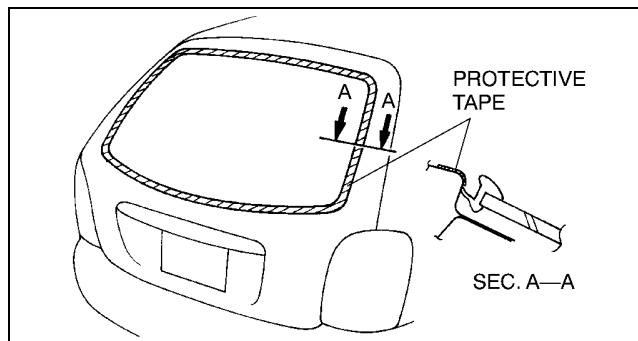
X3U912WAV

5HB

1. Remove the rear wiper arm and blade. (See 09–19–12 REAR WIPER ARM AND BLADE REMOVAL/INSTALLATION.)
2. Remove the liftgate trim.
3. Remove the rear spoiler.

GLASS/WINDOWS/MIRRORS

- Apply protective tape along the edge of body to protect it from damage.



A3U0912W009

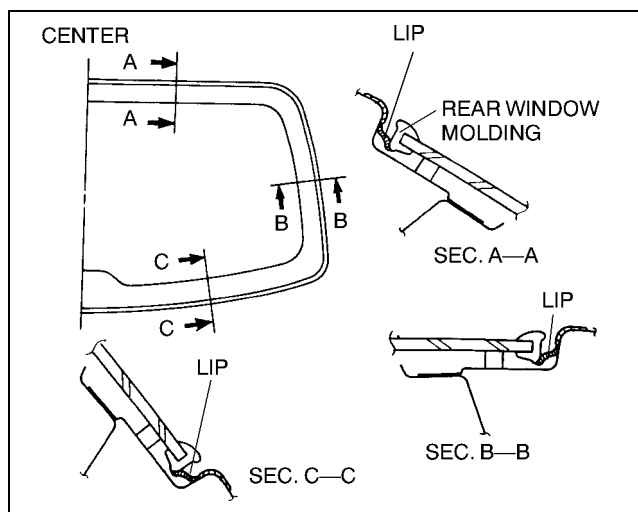
- Remove the lip of the rear window molding using a razor.

Warning

- Using a razor with bare hands can cause injury. Always wear gloves when using a razor.

Note

- The rear window molding is a replacement part.



A3U0912W010

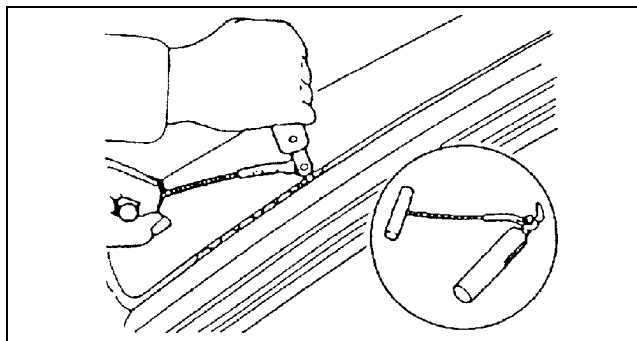
Not Reusing Rear Window Glass

- Use a tool like that shown in the figure, and insert the blade into the sealant.

Note

- For the areas of the sealant that are difficult to cut, use the **SST** (piano wire) and follow the procedures under "Reusing rear window glass".

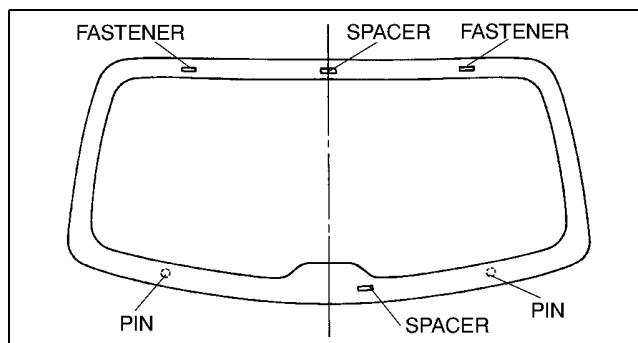
- Pull through the sealant around the edge of the glass.
- Remove the glass.



X3U912WAR

Reusing Rear Window Glass

- Use an awl to saw through the sealant, except where there are fasteners and spacers, from the inside of the vehicle.



A3U0912W011

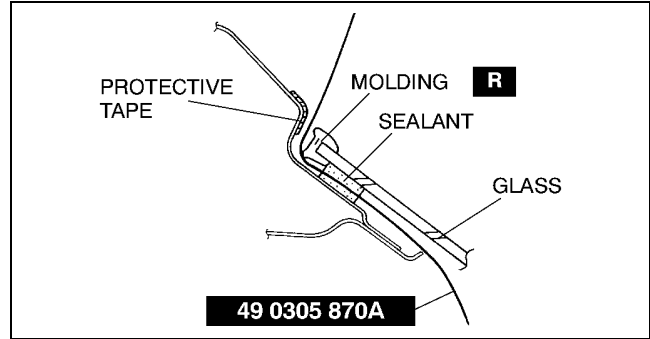
GLASS/WINDOWS/MIRRORS

2. Pass the **SST** (piano wire) through the hole.

Warning

- Using a **SST** (piano wire) with bare hands can cause injury. Always wear gloves when using a **SST** (piano wire).

3. Wind each end of the **SST** (piano wire) around a bar.

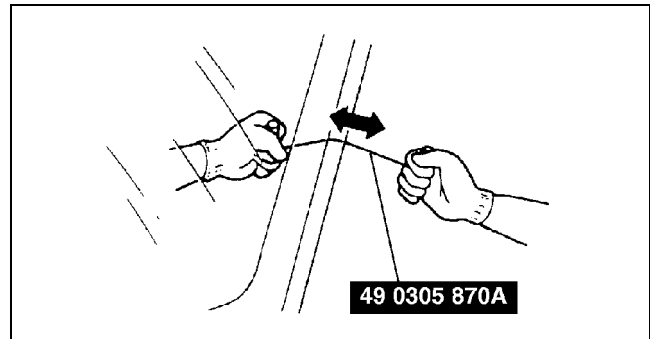


4. Working with another person, saw through the sealant around the edge of the glass, being careful not to damage the body.

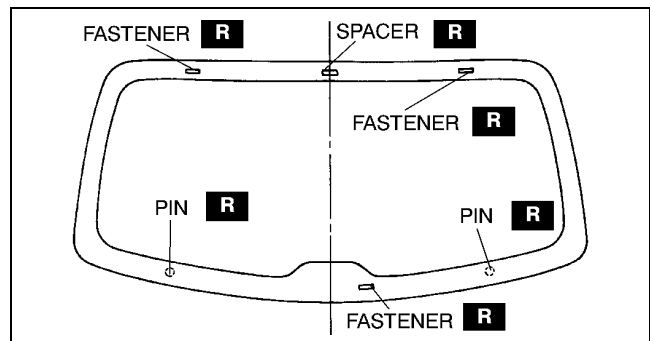
Note

- Use a long sawing action to spread the work over the whole length of the **SST** (piano wire) to prevent it from breaking.

5. Remove the rear window glass.



6. Remove the pins, fasteners and spacers.
7. Remove the rear window molding from the rear window glass.



REAR WINDOW GLASS INSTALLATION

4SD

A3U091263931W02

Caution

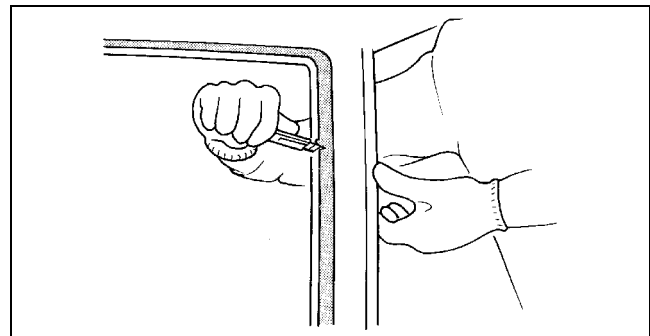
- To prevent the sealant from cracking or the glass from being pushed out by air pressure if a door is closed, open all of the windows and leave them open until the sealant has hardened.

1. Cut away the old sealant using a razor so that 1—2 mm {0.04—0.07 in} thickness of sealant remains around the circumference of the frame.
 - If all the sealant has come off in any one place, apply some primer after degreasing, and allow it **30 minutes** to dry. Then put on new sealant to create a **2 mm {0.08 in}** layer.

Warning

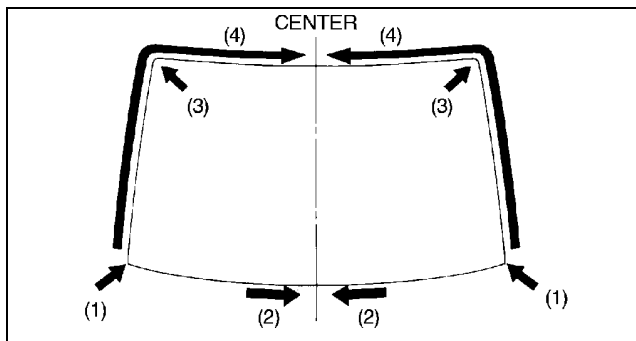
- Using a razor with bare hands can cause injury. Always wear gloves when using a razor.

2. Clean and degrease an **approximately 50.0 mm {1.97 in}** wide strip around the circumference of the glass and the bonding area on the body.



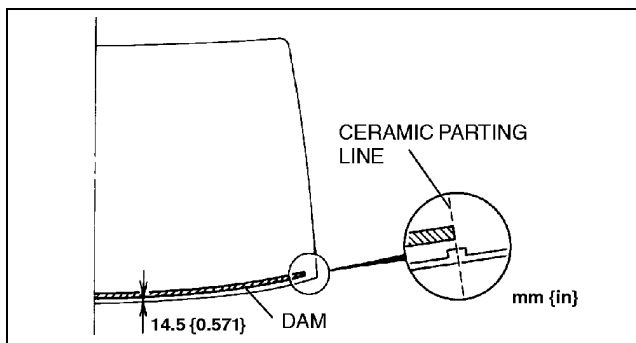
GLASS/WINDOWS/MIRRORS

3. Align the lower corners of the molding and glass. (1)
4. Install the lower, starting from the outer ends and moving inward. (2)
5. Align the marking of the molding with the ceramic parting line on the glass. (3)
6. Install the sides and upper, starting from the lower edge and moving upward and inward, being careful not to pull out the corners. (4)



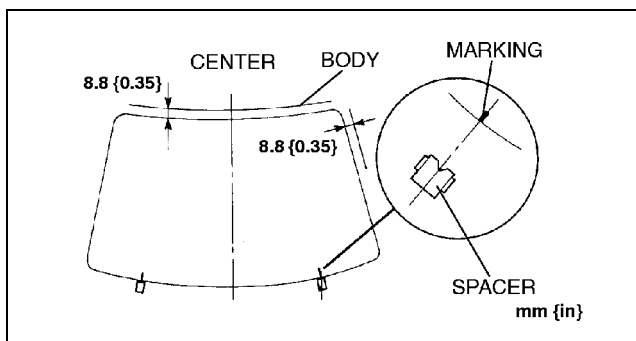
X3U912WAX

7. Securely bond a dam on the lower side of the glass **14.5 mm {0.571 in}** from the edge.
8. Install spacers into the hole.
9. Temporarily install the glass onto the body and adjust the glass-to-body clearance.
10. Make a marks on the glass directly above the V-notch of the spacers.



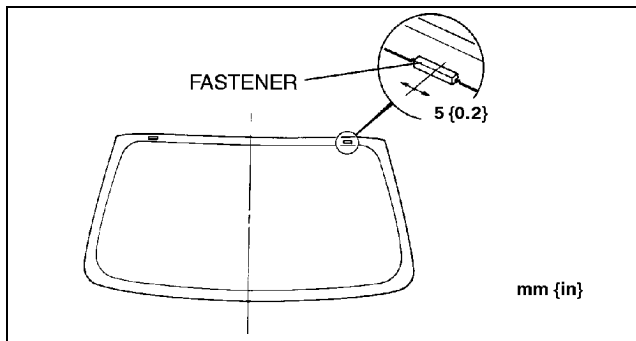
Y3U912WA5

11. Verify that the gap along the upper and side edge is **8.8 mm {0.35 in}**.
12. Remove the windshield.



X3U912WAZ

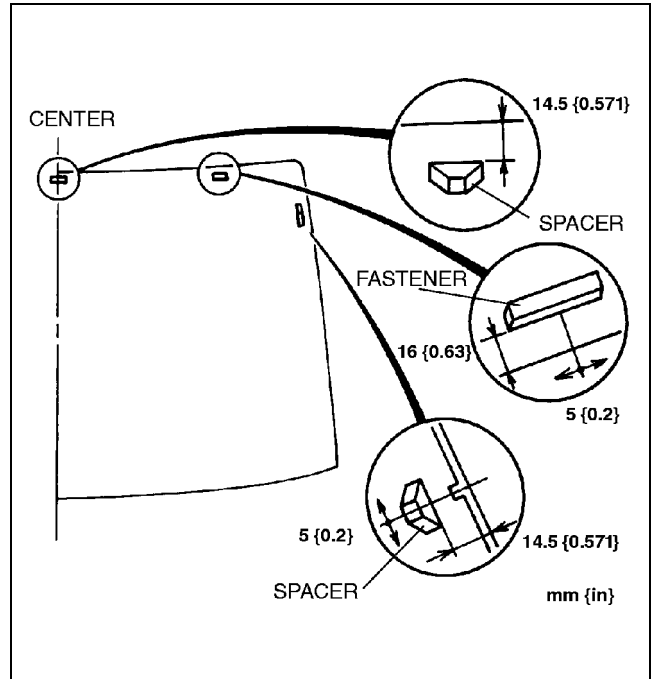
13. Install the fasteners on the body as shown.



Y3U912WAH

GLASS/WINDOWS/MIRRORS

14. Install the fasteners and spacers onto the glass as shown.



Y3U912WA6

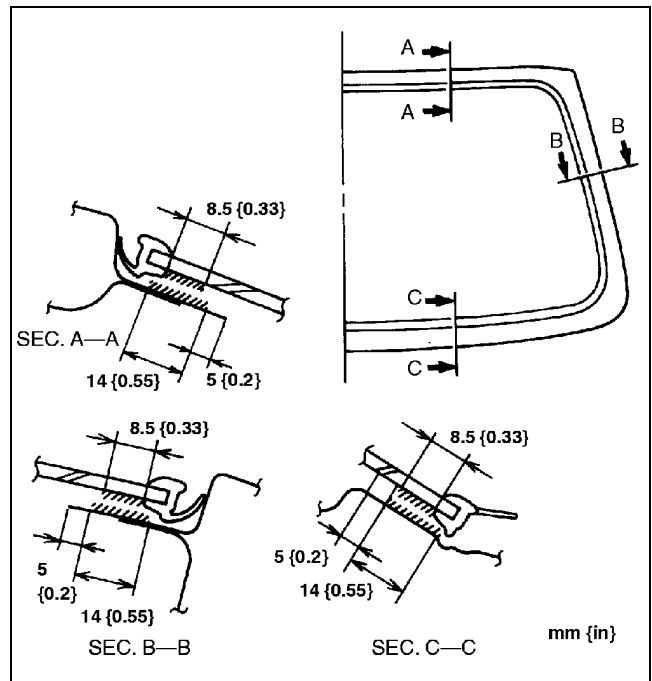
15. Use a brush to apply primer to the bonding area of the glass and body within the region shown.

Caution

- Keep the area free of dirt and grease, and do not touch the surface, otherwise the primer may not properly bond to the surface of the glass and body, which may cause leaks to occur.

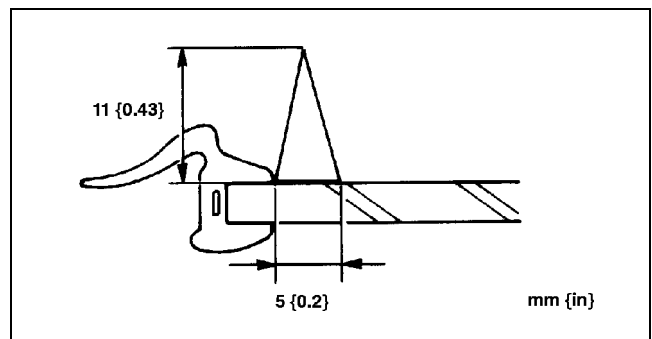
Note

- Use only glass primer on the glass, and body primer on the body and molding. Allow it to dry for **approximately 30 minutes**.



Y3U912WA7

16. Once the primer is dry, apply sealant measuring **11.0 mm {0.433 in}** in height and **5.0 mm {0.20 in}** in width around the entire circumference to fill the gap between the dam and the edge of the glass.
17. Align the marks on the glass with the V-notches in the spacers and install the glass onto the body.
18. Press firmly inward on the glass to compress the sealant.



Y3U912WA8

GLASS/WINDOWS/MIRRORS

19. Verify that the gap along the upper and side edge is **8.8 mm {0.35 in}**.

Hardening time of sealant

Temperature	Surface hardening time	Time required until car can be put into service
5 °C {41 °F}	Approx. 1.5 h	Approx. 12 h
20 °C {68 °F}	Approx. 1 h	Approx. 4 h
35 °C {95 °F}	Approx. 10 min.	Approx. 2 h

20. Install the headliner. (See 09–17–16 HEADLINER REMOVAL/INSTALLATION.)

5HB

Caution

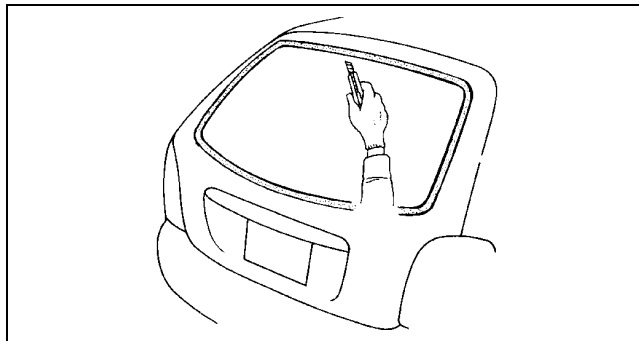
- To prevent the sealant from cracking or the glass from being pushed out by air pressure if a door is closed, open all of the windows and leave them open until the sealant has hardened.

1. Cut away the old sealant using a razor so that **1—2 mm {0.04—0.07 in}** thickness of sealant remains around the circumference of the frame.
 - If all the sealant has come off in any one place, apply some primer after degreasing, and allow it **30 minutes** to dry. Then put on new sealant to create a **2 mm {0.08 in}** layer.

Warning

- Using a razor with bare hands can cause injury. Always wear gloves when using a razor.

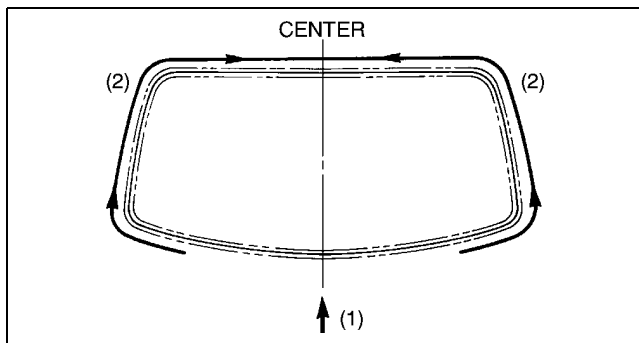
2. Clean and degrease the ceramic parting of the glass and the bonding area on the body.



A3U0912W014

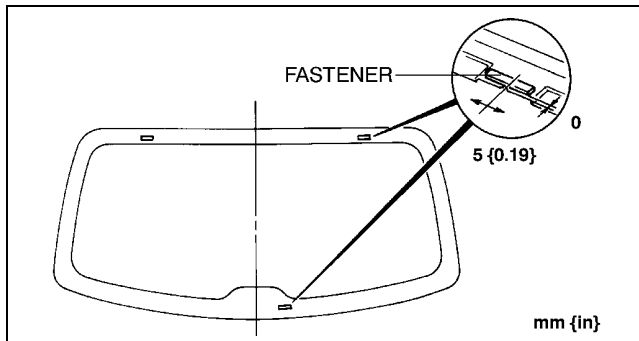
09–12

3. Align the weld joint of the molding with lower center of the glass. (1)
4. Install the molding around the entire circumference of the glass (2).



A3U0912W015

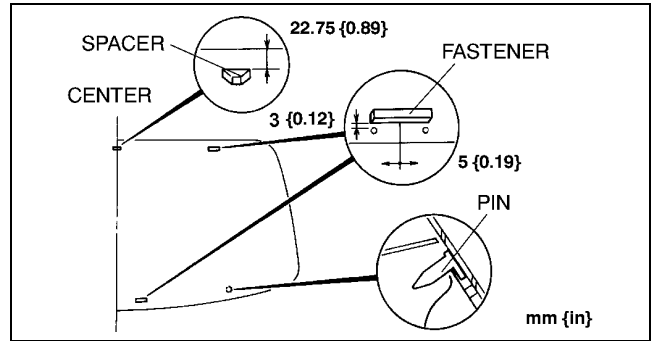
5. Install the fasteners onto the body as shown.



A3U0912W016

GLASS/WINDOWS/MIRRORS

6. Install the spacer, pins and fasteners onto the glass as shown.



A3U0912W017

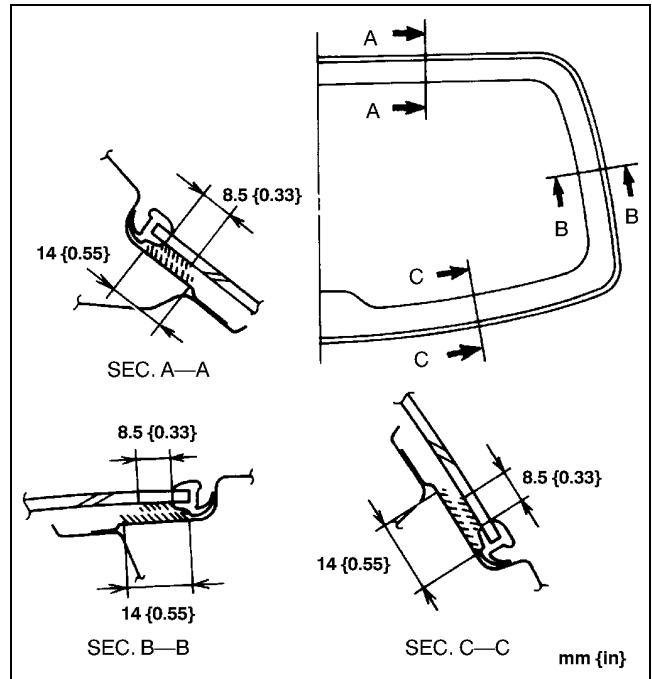
7. Use a brush to apply primer to the bonding area of the glass and body within the region shown.

Caution

- Keep the area free of dirt and grease, and do not touch the surface, otherwise the primer may not properly bond to the surface of the glass and body, which may cause leaks to occur.

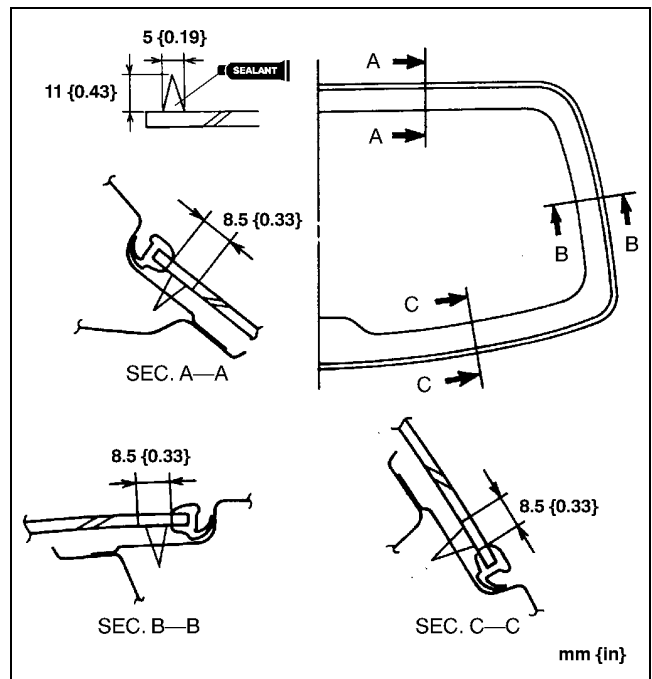
Note

- Use only glass primer on the glass, and body primer on the body and molding. Allow it to dry for **approximately 30 minutes**.



A3U0912W018

8. Once the primer is dry, apply sealant measuring **11.0 mm {0.433 in}** in height and **5.0 mm {0.20 in}** in width around the entire circumference to fill the gap between the dam and the edge of the glass.
9. Align the pins and install the glass onto the body.



A3U0912W019

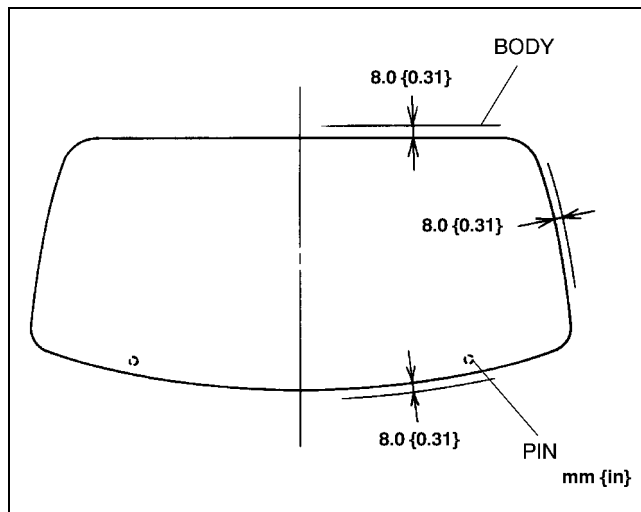
GLASS/WINDOWS/MIRRORS

10. Verify that the gap along the upper, side and lower edge is **8.8 mm {0.35 in}**.
11. Press firmly inward on the glass to compress the sealant.

Hardening time of sealant

Temperature	Surface hardening time	Time required until car can be put into service
5 °C {41 °F}	Approx. 1.5 h	Approx. 12 h
20 °C {68 °F}	Approx. 1 h	Approx. 4 h
35 °C {95 °F}	Approx. 10 min.	Approx. 2 h

12. Install the rear spoiler.
13. Install the liftgate trim.



A3U0912W020

WINDSHIELD REMOVAL

A3U091263900W01

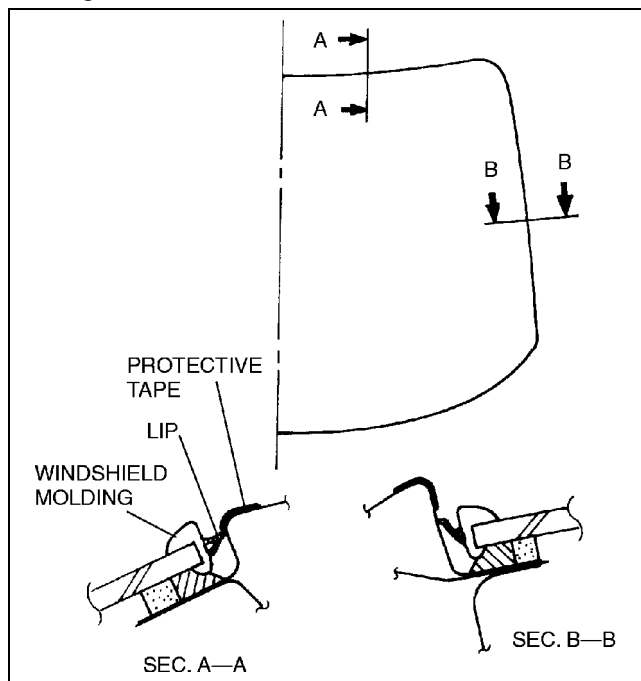
1. Remove the rearview mirror. (See 09–12–30 REARVIEW MIRROR REMOVAL.)
2. Remove the cowl grille. (See 09–16–1 COWL GRILLE REMOVAL/INSTALLATION.)
3. Remove the headliner. (See 09–17–16 HEADLINER REMOVAL/INSTALLATION.)
4. Apply protective tape along the edge of the body to protect it from damage.
5. Apply protective tape to the dashboard to protect it from damage.
6. Cut the lip of the windshield molding using a razor.

Warning

- Using a razor with bare hands can cause injury. Always wear gloves when using a razor.

Note

- The windshield molding is a replacement part.



X3U912WA7

Not Reusing Windshield

1. Remove the base. (See 09–12–31 BASE REMOVAL.)

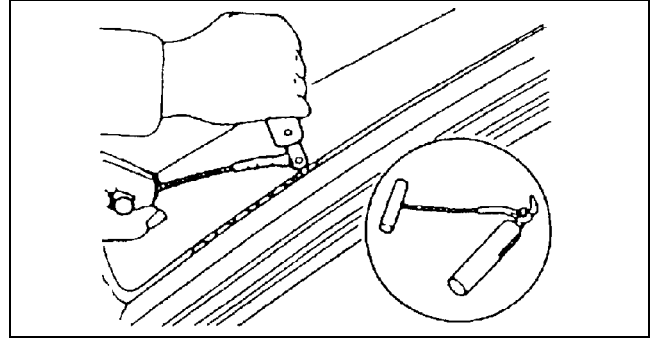
GLASS/WINDOWS/MIRRORS

- Use a tool like that shown in the figure, and insert the blade into the sealant.

Note

- For the areas of the sealant that are difficult to cut, use the **SST** (piano wire) and follow the procedures under "Reusing Windshield".

- Pull through the sealant around the edge of the glass.
- Remove the glass.



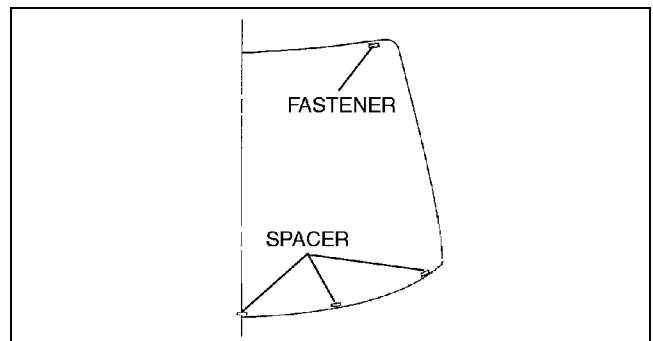
X3U912WA8

Reusing Windshield

Note

- Before removing the windshield from the body, mark the position of the windshield by affixing tape to the windshield and body panel.

- Make a hole through the sealant except fasteners and spacers from the inside of the vehicle using an awl.



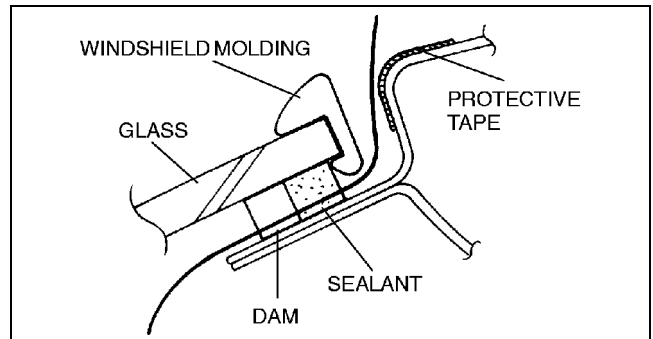
X3U912WA9

- Pass the **SST** (piano wire) through the hole.

Warning

- Using a **SST** (piano wire) with bare hands can cause injury. Always wear gloves when using a **SST** (piano wire).

- Wind each end of the **SST** (piano wire) around a bar.



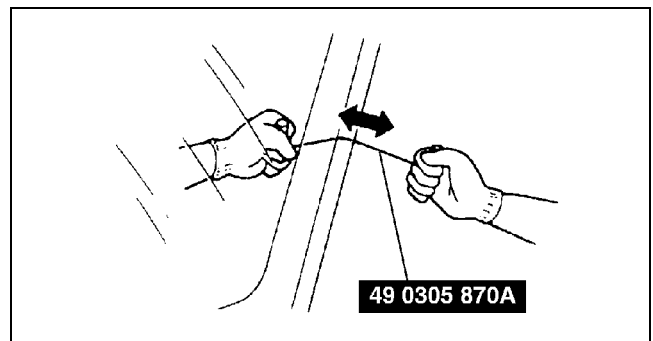
X3U912WAA

- Working with another person, saw through the sealant around the edge of the glass.

Note

- Use a long sawing action to spread the work over the whole length of the **SST** (piano wire) to prevent it from breaking.

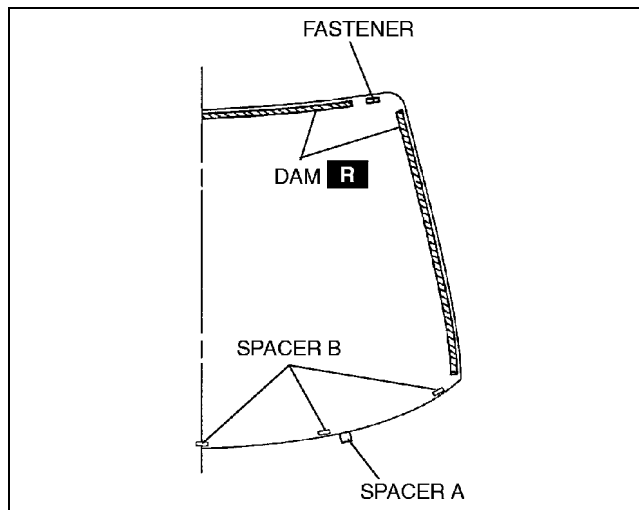
- Remove the windshield.



X3U912WAB

GLASS/WINDOWS/MIRRORS

6. Remove the dam from the windshield.
7. Remove the fasteners.
8. Remove spacers A and B.



Z3U0912W011

WINDSHIELD INSTALLATION

A3U091263900W02

Caution

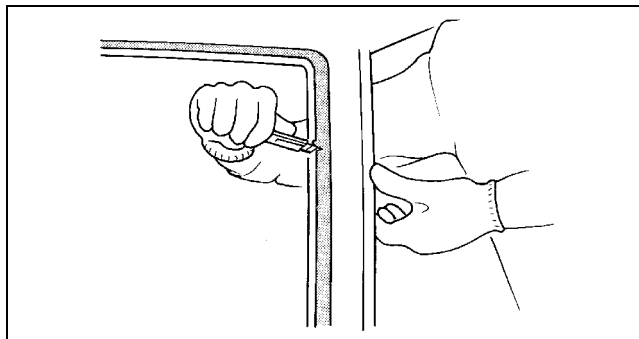
- To prevent the sealant from cracking or the glass from being pushed out by air pressure if a door is closed, open all of the windows and leave them open until the sealant has hardened.

1. Cut away the old sealant using a razor so that 1—2 mm {0.04—0.07 in} thickness of sealant remains around the circumference of the frame.
 - If all the sealant has come off in any one place, apply some primer after degreasing, and allow it **30 minutes** to dry. Then put on new sealant to create **2 mm {0.08 in}** layer.

Warning

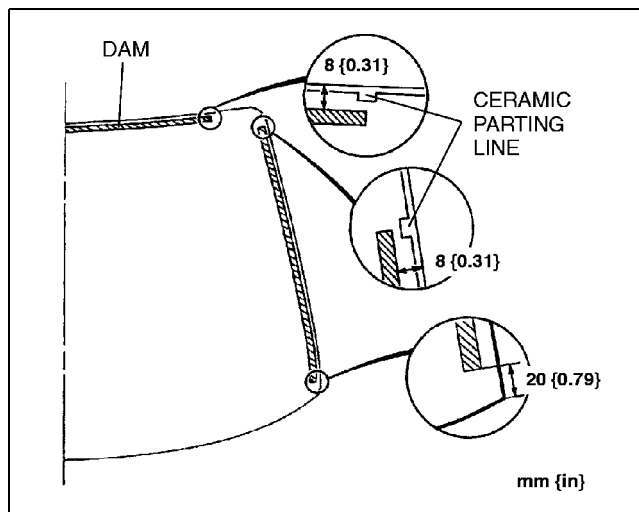
- Using a razor with bare hands can cause injury. Always wear gloves when using a razor.

2. Clean and degrease an **approximately 50.0 mm {1.97 in}** wide strip around the circumference of the glass and the bonding area on the body.



WSXWX0003J

3. Securely bond a dam along the circumference of the glass **8.0 mm {0.31 in}** from the edge.

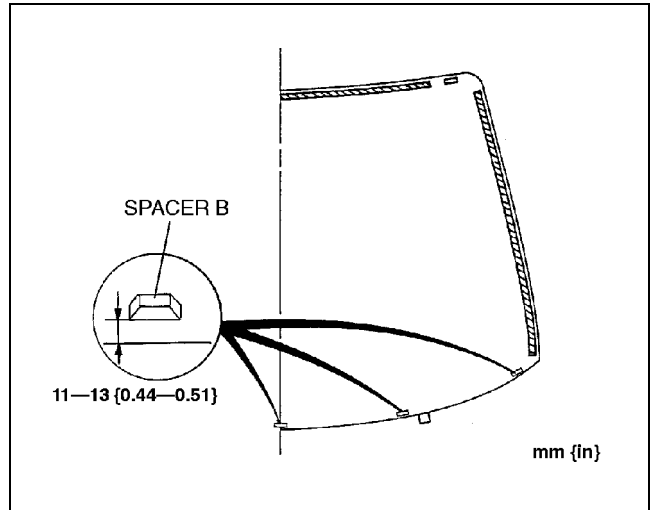


Z3U0912W012

09-12

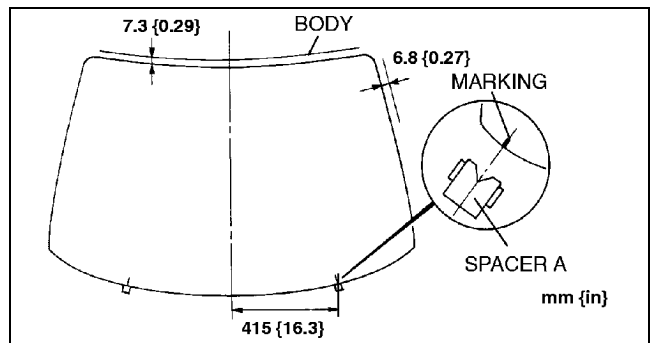
GLASS/WINDOWS/MIRRORS

4. Install the spacers B on the glass as shown.



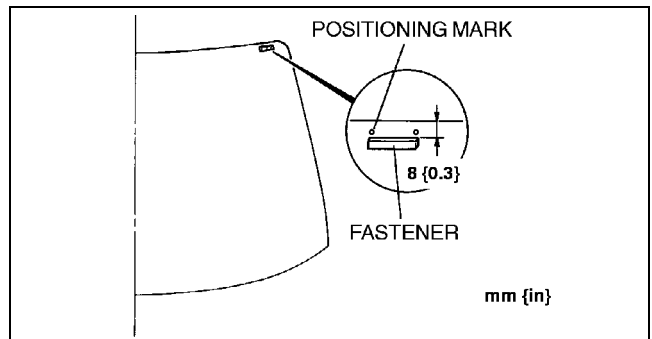
Z3U0912W013

5. Install spacers A into the hole.
6. Temporarily install the glass onto the body and adjust the glass-to-body clearance.
7. Make a mark on the glass directly above the V-notch of spacers A.
8. Verify that the gap along the upper edge is **7.3 mm {0.29 in}**, and that the side edge is **6.8 mm {0.27 in}**.
9. Remove the windshield.



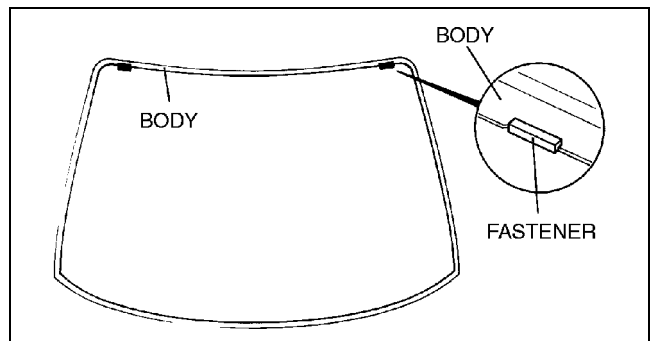
X3U912WAG

10. Install the fasteners on the glass marks as shown.



Y3U912WAA

11. Install the fasteners on the body as shown.



X3U912WAH

GLASS/WINDOWS/MIRRORS

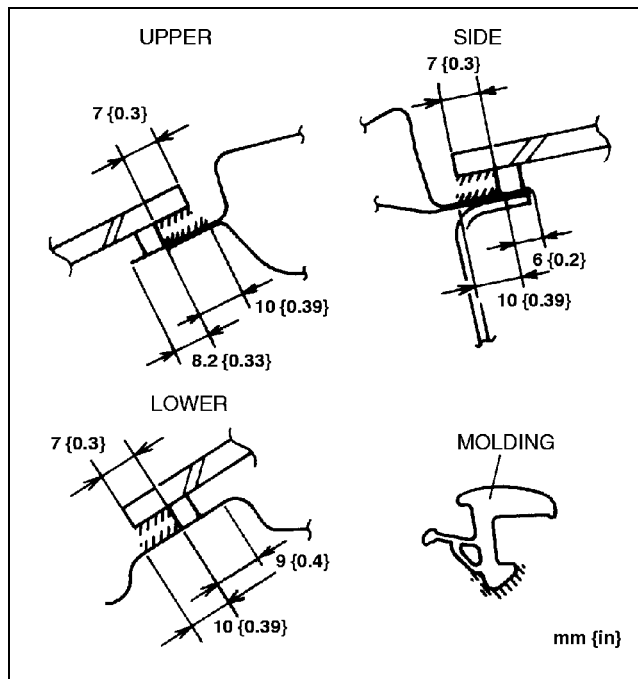
12. Use a brush to apply primer to the bonding area of the glass, the body, and the molding within the area shown.

Caution

- Keep the area free of dirt and grease, and do not touch the surface, otherwise the primer may not properly bond to the surface of the glass and body, which may cause leaks to occur.

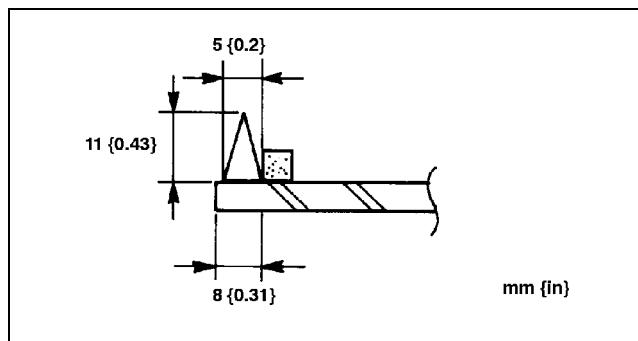
Note

- Use only glass primer on the glass, and body primer on the body and the molding. Allow it to dry for **approximately 30 minutes**.



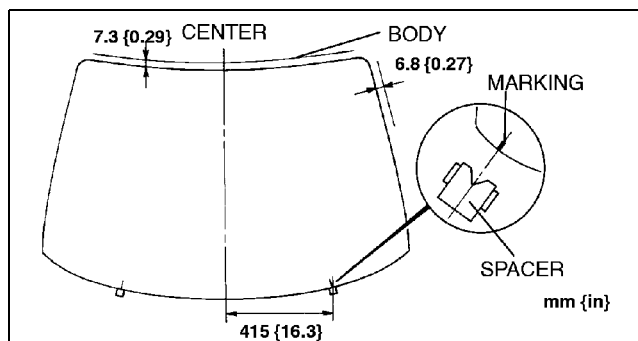
Y3U912WAB

13. Once the primer is dry, apply sealant around the entire circumference to fill the gap between the dam and the edge of the glass measuring **11.0 mm {0.433 in}** high and **5.0 mm {0.20 in}** wide.
14. Align the glass marks with the V-notches in the spacers and install the glass onto the body.
15. Press firmly inward on the glass to compress the sealant.



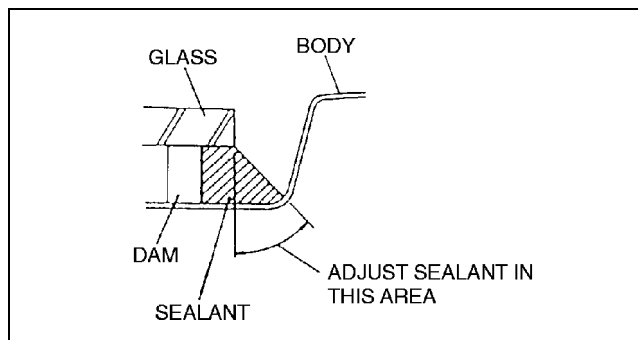
Y3U912WAC

16. Verify that the gap along the upper edge is **7.3 mm {0.29 in}** and side edge is **6.8 mm {0.27 in}**.



X3U912WAL

17. Use a scraper to smooth away any sealant that oozes out. Add more sealant to any points of poor contact. Adjust the sealant as shown if necessary.



X3U912WAM

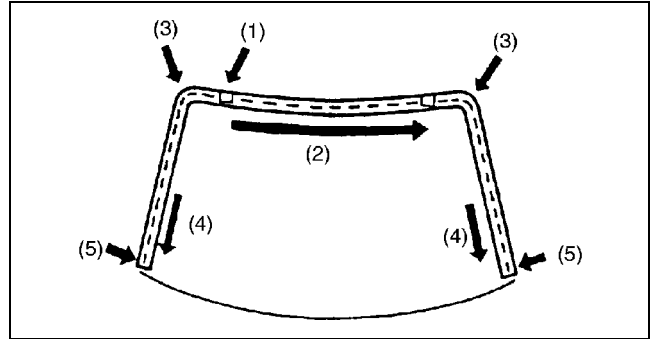
GLASS/WINDOWS/MIRRORS

18. Before the surface of the sealant has hardened, install the windshield molding.

Hardening time of sealant

Temperature	Surface hardening time	Time required until car can be put into service
5 °C {41 °F}	Approx. 1.5 h	Approx. 12 h
20 °C {68 °F}	Approx. 1 h	Approx. 4 h
35 °C {95 °F}	Approx. 10 min.	Approx. 2 h

19. Align the marking on the molding with the inner side of the body groove. (1)
20. Install the upper edge starting from the outer ends and moving inward. (2)
21. Install the corners. (3)
22. Install the windshield molding installation clips to the cowl grille hole. (4)
23. Install the sides, starting from the upper edge and moving downward, being careful not to pull out the corners. (5)
24. Use isopropyl alcohol to remove any excess sealant.
25. Install the headliner. (See 09-17-16 HEADLINER REMOVAL/INSTALLATION.)
26. Install the cowl grille. (See 09-16-1 COWL GRILLE REMOVAL/INSTALLATION.)
27. Install the base. (See 09-12-31 BASE INSTALLATION.)
28. Install the rearview mirror. (See 09-12-31 REARVIEW MIRROR INSTALLATION.)

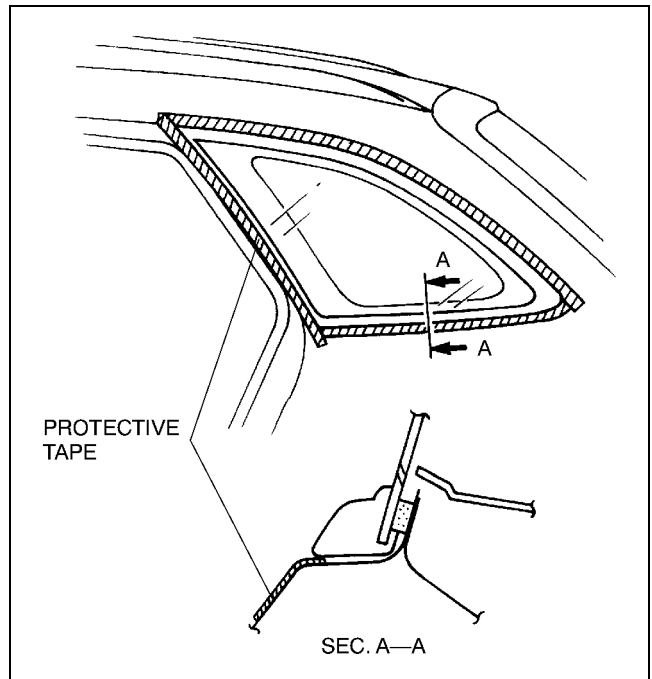


X3U912WAN

QUARTER WINDOW GLASS REMOVAL

1. Remove the C-pillar trim. (See 09-17-11 C-PILLAR TRIM REMOVAL/INSTALLATION.)
2. Apply protective tape along the edge of body and quarter window glass.

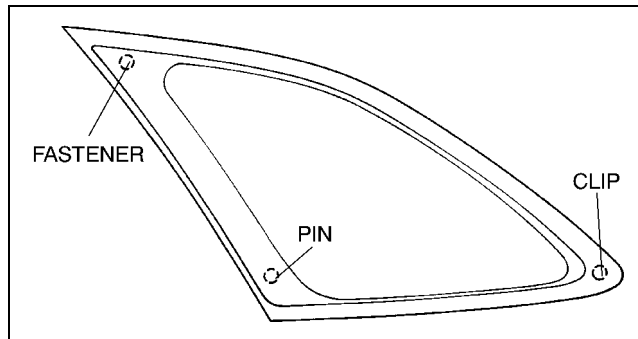
A3U091262580W01



A3U0912W001

GLASS/WINDOWS/MIRRORS

3. Make a hole through the sealant except fastener, pin and clip from the inside of the vehicle using an awl.



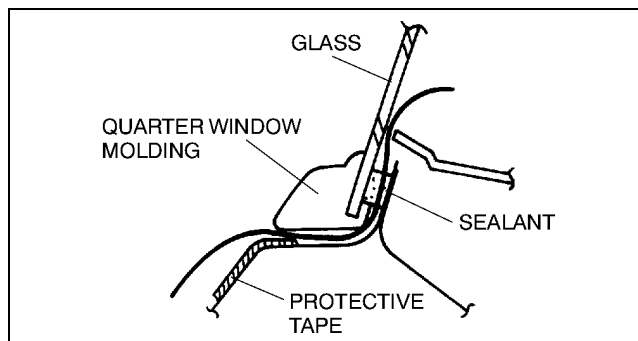
A3U0912W002

4. Pass the **SST** (piano wire) through the hole.

Warning

- Using a **SST** (piano wire) with bare hands can cause injury. Always wear gloves when using a **SST** (piano wire).

5. Wind each end of the **SST** (piano wire) around a bar.

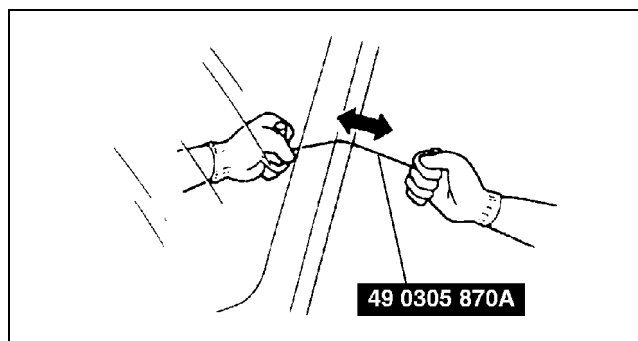


A3U0912W003

6. Working with another person, saw through the sealant around the edge of the glass, being careful to not damage the vehicle body.

Note

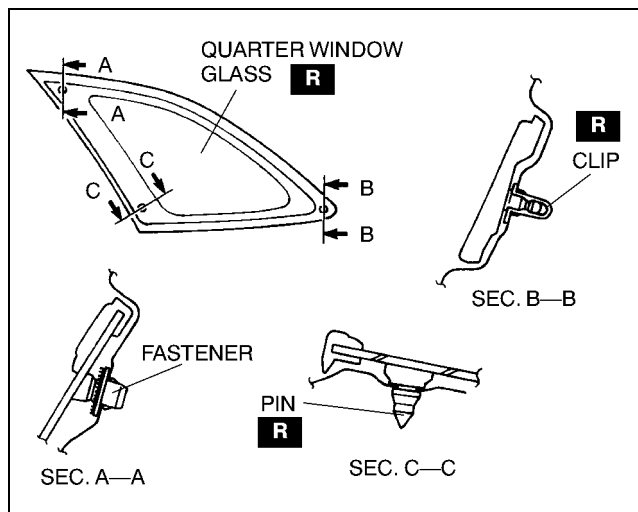
- Use a long sawing action to spread the work over the whole length of the **SST** (piano wire) to prevent it from breaking.



X3U912WAB

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7. Pull the quarter window glass, then disengage the fastener, pin and clip.
8. Remove the fastener and pin from the body.



A3U0912W004

GLASS/WINDOWS/MIRRORS

QUARTER WINDOW GLASS INSTALLATION

A3U091262580W02

Caution

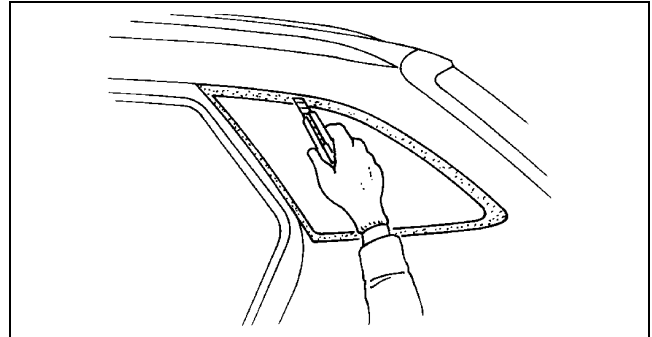
- To prevent the sealant from cracking or the glass from being pushed out by air pressure if a door is closed, open all of the windows and leave them open until the sealant has hardened.

- Cut away the old sealant using a razor so that 1—2 mm {0.04—0.07 in} thickness of sealant remains around the circumference of the frame.
 - If all the sealant has come off in any one place, apply some primer after degreasing, and allow it 30 minutes to dry. Then put on new sealant to create 2 mm {0.08 in} layer.

Warning

- Using a razor with bare hands can cause injury. Always wear gloves when using a razor.

- Clean and degrease the ceramic part of the glass and around the circumference of the bonding area on the body.



A3U0912W005

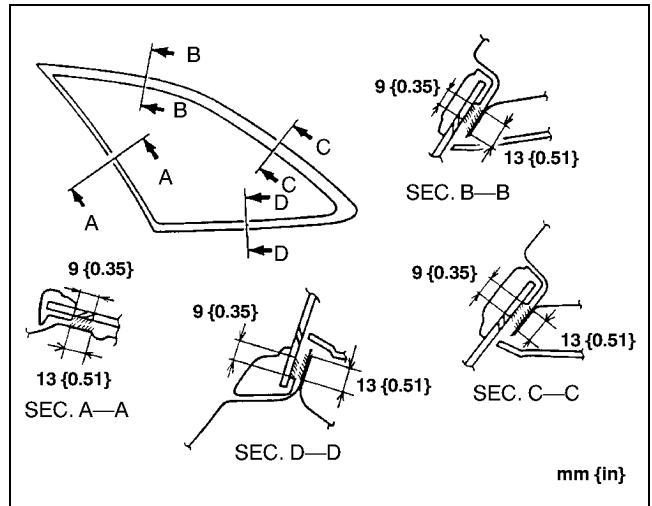
- Use a brush to apply primer to the bonding area of the glass and body, within the region shown.

Caution

- Keep the area free of dirt and grease, and do not touch the surface or primer may not properly bond to the surface of the glass and body, which may cause leaks to occur.

Note

- Use only glass primer on the glass, and body primer on the body. Allow it to dry for approximately 30 minutes.

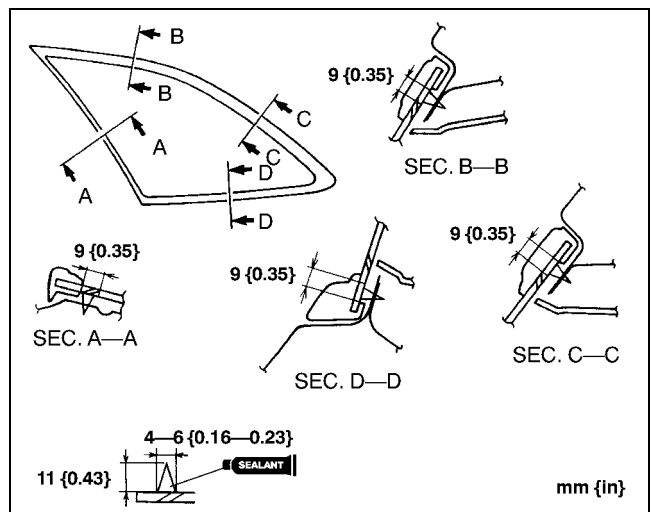


A3U0912W006

- Once the primer is dry, apply sealant around the entire circumference to fill the gap between the dam and the edge of the glass measuring 11.0 mm {0.433 in} high and 5.0 mm {0.20 in} wide.
- Align the fasteners and install the glass onto the body.
- Verify the clearance as shown.

Clearance

- a: 0 mm {0 in}
- b: 2.0 mm {0.08 in}



A3U0912W007

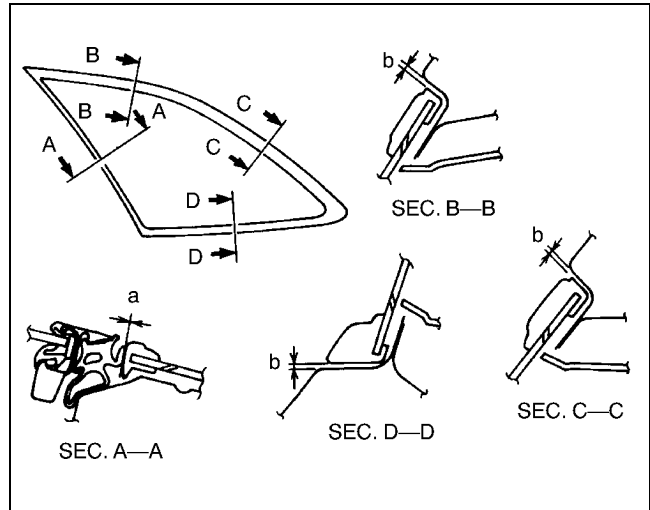
GLASS/WINDOWS/MIRRORS

7. Press firmly inward on the glass to compress the sealant.

Hardening time of sealant

Temperature	Surface hardening time	Time required until car can be put into service
5 °C {41 °F}	Approx. 1.5 h	Approx. 12 h
20 °C {68 °F}	Approx. 1 h	Approx. 4 h
35 °C {95 °F}	Approx. 10 min.	Approx. 2 h

- Check for water leaks. If a leak is found, wipe the water off well and repeat the installation.
- Install the C-pillar trim. (See 09-17-11 C-PILLAR TRIM REMOVAL/INSTALLATION.)



A3U0912W008

FILAMENT INSPECTION

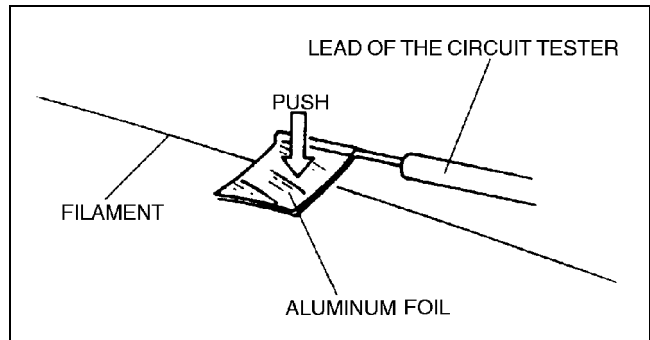
- Turn the ignition switch to ON position.
- Turn the rear window defroster switch to ON.
- Connect the positive (+) lead of the voltmeter to the positive side of each filament and the negative (-) lead to ground.

A3U091263931W03

Caution

- Directly touching the rear window defroster filament with the lead of the circuit tester will damage it. Wrap aluminum foil around the end of the lead and test the filament by touching it with the foil.

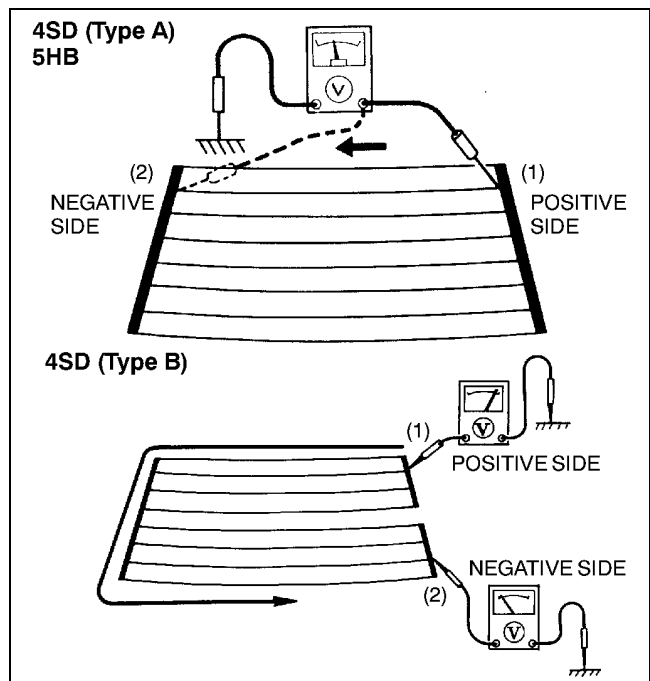
- Gradually, slide the positive (+) lead from the positive side to the negative side and measure the voltage. Verify that the voltage decreases accordingly.
 - If the voltage is not as specified or it changes rapidly, the filament is faulty. Repair the filament.



X3U912WA1

09-12

Measurement place	Voltage (Reference value)
(1)→(2)	Approx. 12 V→ Approx. 0 V



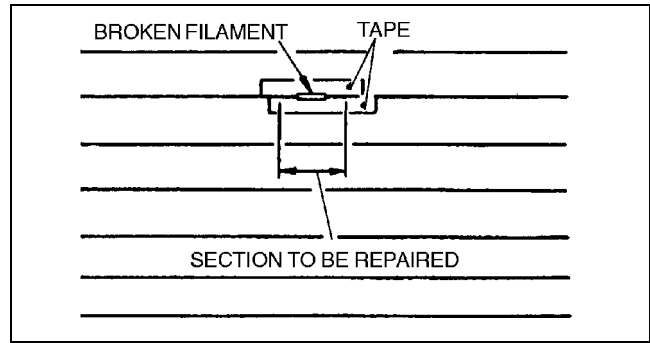
A3U0912W021

GLASS/WINDOWS/MIRRORS

FILAMENT REPAIR

A3U091263931W04

1. Use isopropyl alcohol to clean around the damaged section of the filament.
2. Attach tape above and below the damaged section of the filament.
3. Using a small brush or marking pen, repair the filament with silver paint or equivalent.
4. After **approximately 2—3 minutes**, carefully remove the tape without disturbing the repaired area.
5. Use a hot air blower heated to **150 °C {302 °F}** for **30 minutes** or let the paint set for **24 hours** at **25 °C {77 °F}** to allow it to dry completely.



X3U0912WA4

Caution

- Do not use the rear window defroster until the paint is completely dry. It may cause other malfunctions if it is used before the paint is dry.

REAR WINDOW DEFROSTER SWITCH INSPECTION

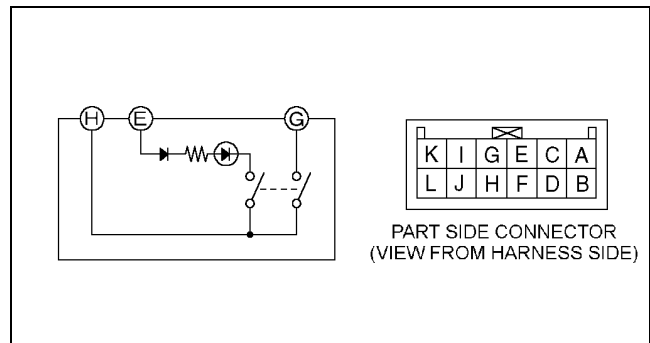
A3U091266460W01

1. Remove the climate control unit. (See 07–40–9 CLIMATE CONTROL UNIT REMOVAL.)
2. Inspect for continuity between the rear window defroster switch terminals using an ohmmeter.

○—○ : Continuity

Switch position	Terminal	
	E	J
OFF		
ON	○—○	○—○

Z3U0912W019



Z3U0912W018

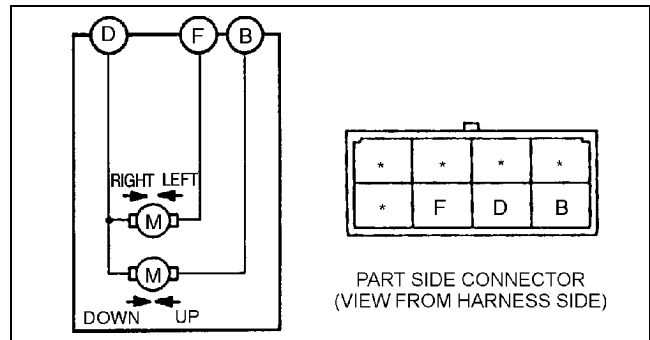
3. Connect battery positive voltage to terminal L and ground to terminal E.
4. Turn the rear window defroster switch to ON.
5. Verify that the LED illuminates.
 - If not as specified, replace the climate control unit.

POWER OUTSIDE MIRROR INSPECTION

A3U091269110W01

1. Disconnect the power outside mirror connector. (See 09–12–28 POWER OUTSIDE MIRROR REMOVAL/INSTALLATION.)
2. Apply battery positive voltage to the power outside mirror and inspect the operation of the power outside mirror.
 - If not as specified, replace the power outside mirror.

Terminal		Mirror operation
B+	GND	
B	D	Up
D	B	Down
F	D	Left
D	F	Right



Z3U0912W001

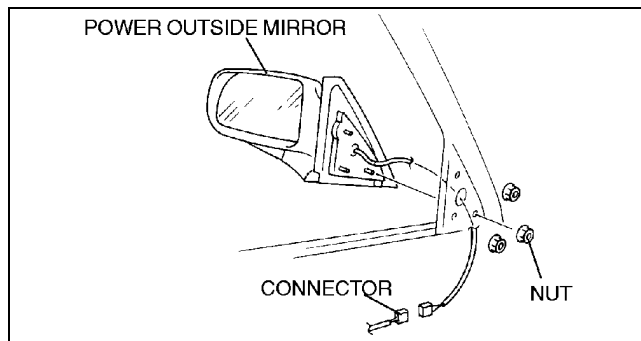
POWER OUTSIDE MIRROR REMOVAL/INSTALLATION

A3U091269110W02

1. Disconnect the negative battery cable.
2. Remove the front door trim. (See 09–17–9 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
3. Partially peel off the door screen.
4. Disconnect the connector.

GLASS/WINDOWS/MIRRORS

5. Remove the nuts, and then remove the power outside mirror.
6. Install in the reverse order of removal.

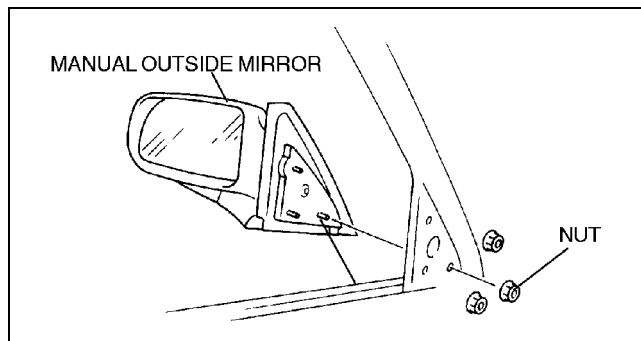


X3U912WD8

MANUAL OUTSIDE MIRROR REMOVAL/INSTALLATION

1. Remove the inner garnish.
2. Remove the nuts, and then remove the manual outside mirror.
3. Install in the reverse order of removal.

A3U091269100W01

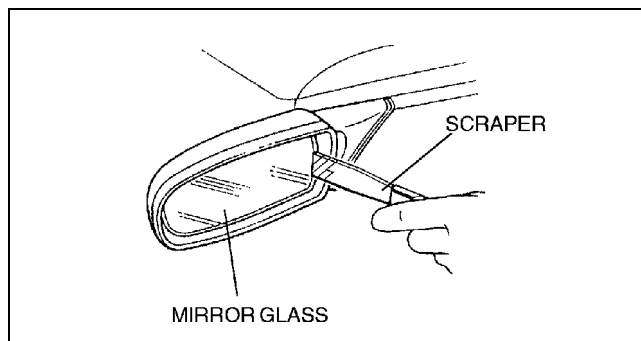


X3U912WD7

OUTSIDE MIRROR GLASS REMOVAL

1. Warm the frame and the mirror glass to **approximately 70 °C {158 °F}** for **3 minutes** using a hot air blower.
2. Put on gloves and protective eye wear.
3. Insert a tape-wrapped scraper between the mirror glass and the frame, and pry the glass loose.

A3U091269111W01

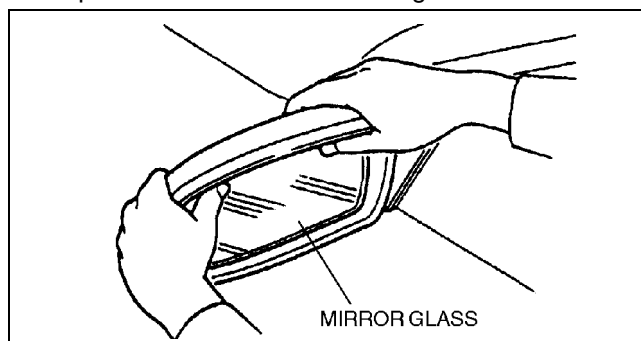


X3U912WD9

OUTSIDE MIRROR GLASS INSTALLATION

1. Clean and degrease the adhesion surface of the mirror glass.
2. Stick double-sided adhesive tape onto the back of the mirror glass.
3. Warm up the frame using a hot air blower.
4. Remove the paper backing from the double-sided adhesive tape on the back of the mirror glass.
5. Insert the mirror glass into the frame, then press lightly on the glass to secure it.

A3U091269111W02



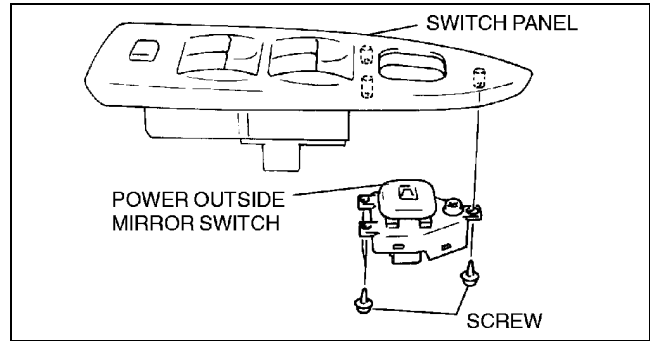
X3U912WE0

GLASS/WINDOWS/MIRRORS

POWER OUTSIDE MIRROR SWITCH REMOVAL/INSTALLATION

A3U091266600W01

1. Disconnect the negative battery cable.
2. Remove the driver-side front door trim. (See 09-17-9 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
3. Push the clip from the reverse side of the trim to remove the switch panel.
4. Disconnect the connector.
5. Remove the screws, and then remove the power outside mirror switch.
6. Install in the reverse order of removal.



X3U912WE2

POWER OUTSIDE MIRROR SWITCH INSPECTION

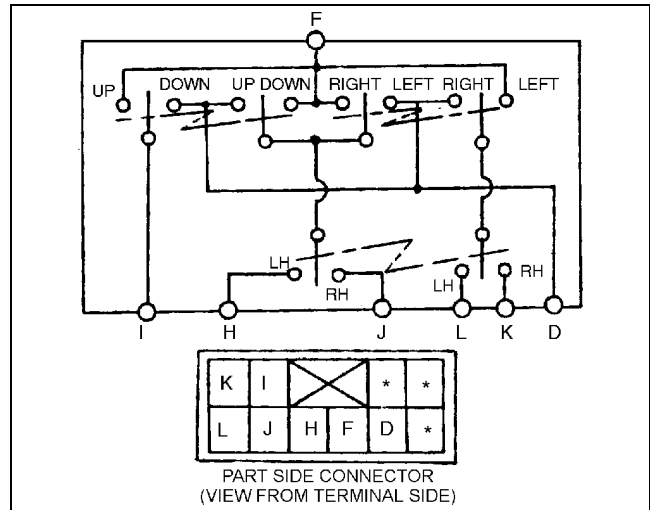
A3U091266600W02

1. Remove the power outside mirror switch. (See 09-12-30 POWER OUTSIDE MIRROR SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the power outside mirror switch terminals using an ohmmeter.
 - If not as specified, replace the power outside mirror switch.

○—○ : Continuity

Switch position	Operation	Terminal						
		F	D	H	L	J	K	I
LH	Up	○						○
	Down	○	○	○				○
	Left	○	○		○			
	Right	○	○	○				
RH	Up	○				○		○
	Down	○	○				○	○
	Left	○	○			○		
	Right	○	○			○		○

X3U912WE3

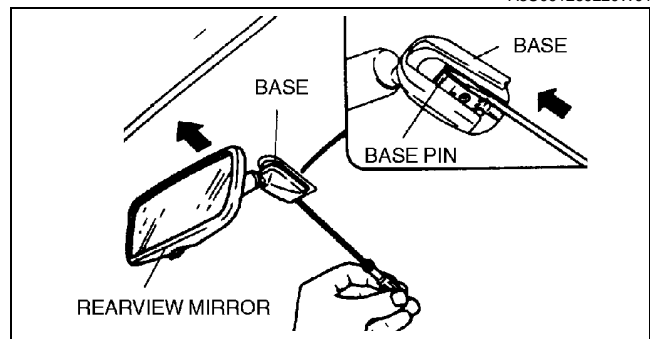


Z3U0912W014

REARVIEW MIRROR REMOVAL

A3U091269220W01

1. Insert a flathead screwdriver between the mirror and the base.
2. Push the base pin down to remove the rearview mirror.

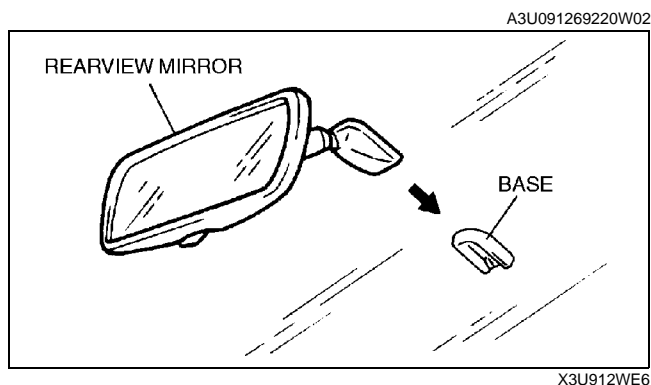


X3U912WE5

GLASS/WINDOWS/MIRRORS

REARVIEW MIRROR INSTALLATION

1. Install the rearview mirror onto the base.

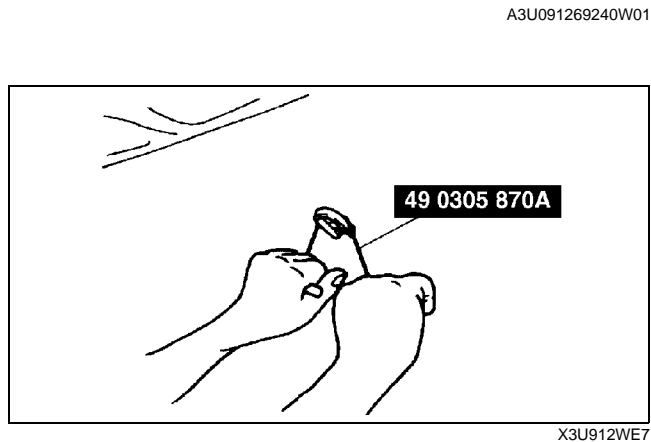


BASE REMOVAL

1. Remove the rearview mirror.
2. Wind each end of a wire around a bar.
3. Saw through the sealant to remove the base.

Note

- Use a long sawing action to spread the work over the whole length of the **SST** (piano wire) to prevent it from breaking.



BASE INSTALLATION

1. Cut away all of the original sealant using a razor.
2. Clean and degrease the ceramic coating on the glass and the base.
3. Apply primer to the bonding area of the glass and the base.

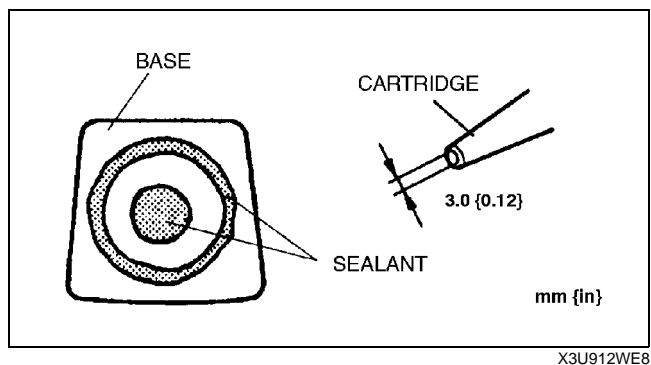
Caution

- **Keep the area free of dirt and grease, and do not touch the surface, otherwise the primer may not properly bond to the surface of the glass.**

4. Apply a height of **3.0 mm {0.12in}** sealant to the base.

Note

- Use only glass primer on the glass, and body primer on the base. Allow the primer to dry for **approximately 30 minutes**.

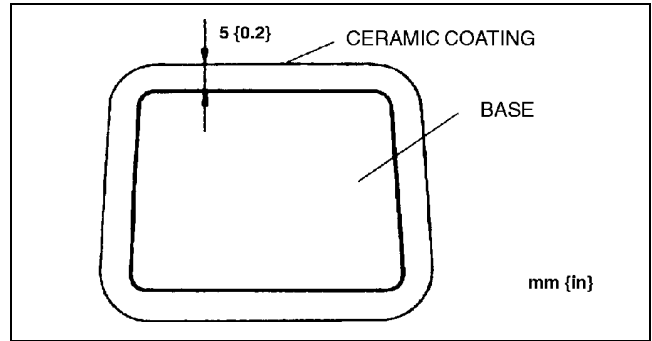


GLASS/WINDOWS/MIRRORS

- Center the base in the ceramic coating and press it onto the glass.
- Use isopropyl alcohol to remove any excess repair sealant.

Hardening time of sealant

Temperature	Surface hardening time	Time required until car can be put into service
5 °C {41 °F}	Approx. 1.5 h	Approx. 12 h
20 °C {68 °F}	Approx. 1 h	Approx. 4 h
35 °C {95 °F}	Approx. 10 min.	Approx. 2 h



X3U912WE9

- Install the rearview mirror.

09-13 SEATS

FRONT SEAT

REMOVAL/INSTALLATION 09-13-1

Side Air Bag Module Connector
Removal Note 09-13-1

Side Air Bag Module Connector
Installation Note 09-13-2

Buckle Switch Connector
Installation Note 09-13-2

FRONT SEAT

DISASSEMBLY/ASSEMBLY 09-13-2

Driver's Seat 09-13-2

Passenger's Seat 09-13-4

REAR SEAT REMOVAL/INSTALLATION 09-13-5

4SD 09-13-5

5HB 09-13-5

REAR SEAT DISASSEMBLY/ASSEMBLY 09-13-7

4SD 09-13-7

5HB 09-13-8

FRONT SEAT REMOVAL/INSTALLATION

A3U091357100W01

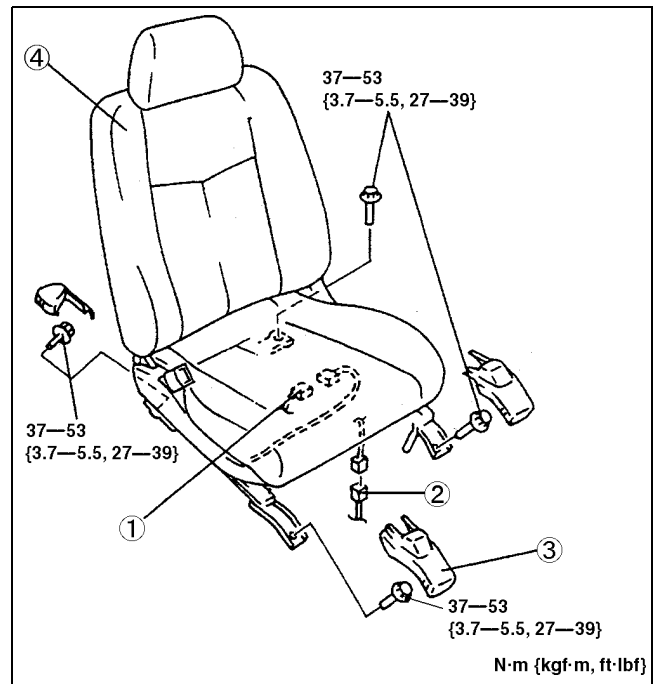
Warning

- Handling the front seat (side air bag) improperly can accidentally deploy the side air bag, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling the front seat. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative battery cable and wait for more than 1 minute.
3. Remove in the order indicated in the table.

1	Side air bag module connector (Vehicles with side air bag) (See 09-13-1 Side Air Bag Module Connector Removal Note) (See 09-13-2 Side Air Bag Module Connector Installation Note)
2	Buckle switch connector (See 09-13-2 Buckle Switch Connector Installation Note)
3	Cover
4	Front seat

4. Install in the reverse order of removal.



Z3U0913W001

09-13

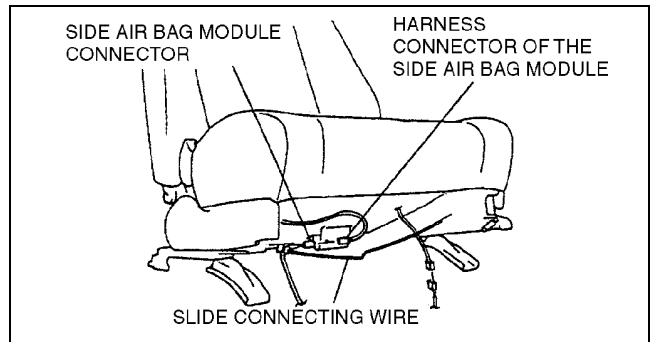
Side Air Bag Module Connector Removal Note

1. Remove the connector from the seat cushion frame, then disconnect the side air bag module connector.

SEATS

Side Air Bag Module Connector Installation Note

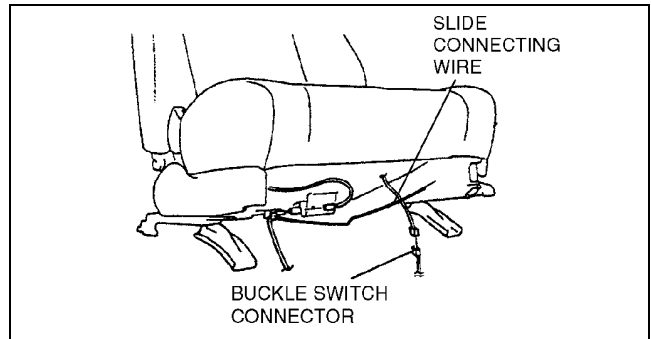
1. Be sure to pass the side air bag module connector (vehicle-side harness connector) under the slide connecting wire before connecting it to the harness connector of the side air bag module.
2. After connecting the connectors, secure them to the seat cushion frame.



Y3U913WA1

Buckle Switch Connector Installation Note

1. Be sure to pass the harness connector of the buckle switch under the slide connecting wire before connecting it to the buckle switch connector (vehicle-side harness connector).



Y3U913WA2

FRONT SEAT DISASSEMBLY/ASSEMBLY

Driver's Seat

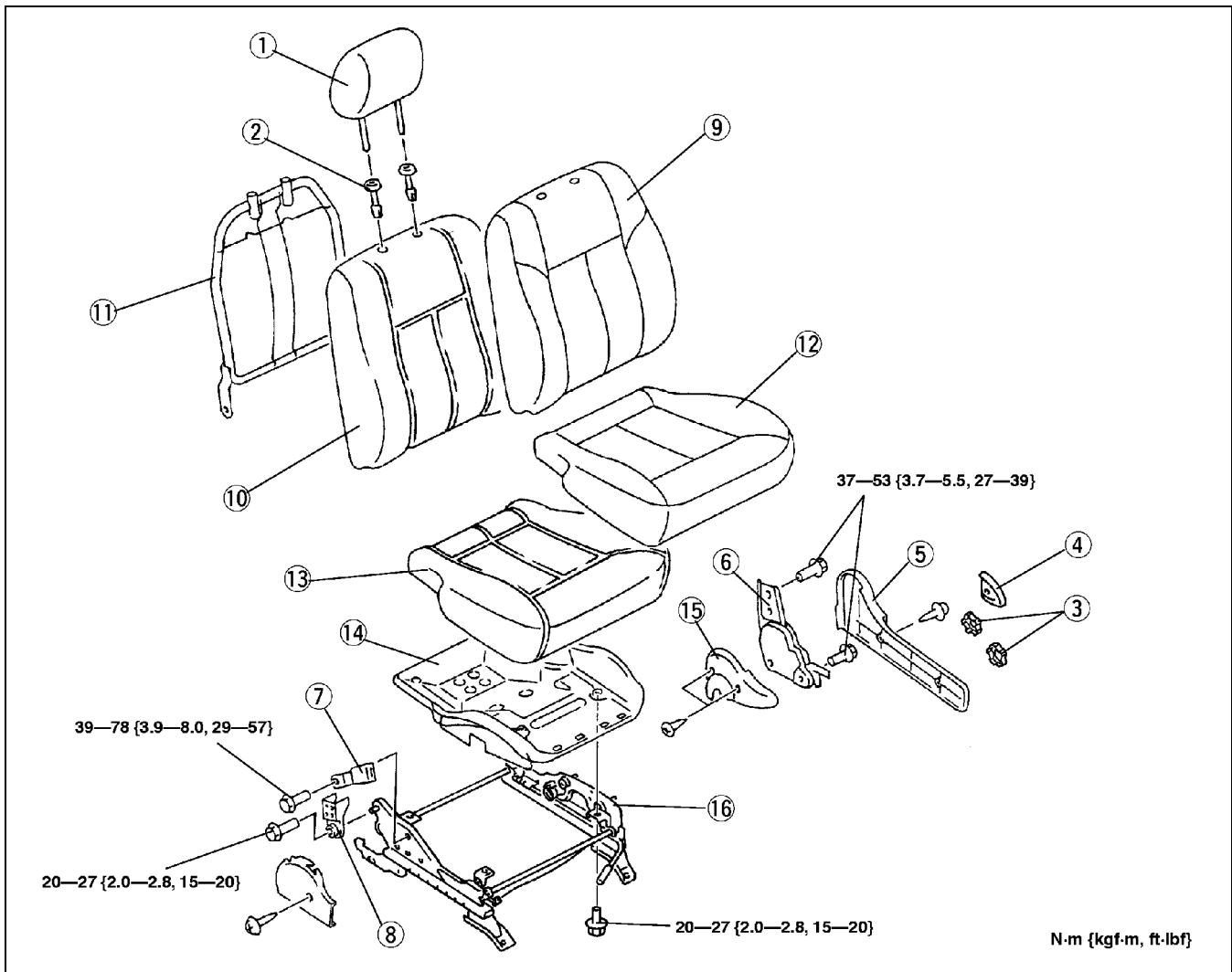
A3U091357100W02

Warning

- Handling the front seat (side air bag) improperly can accidentally deploy the side air bag, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling the front seat. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

1. Remove the driver-side side air bag module. (See 08-10-5 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
2. Disassemble in the order indicated in the table.
3. Assemble in the reverse order of disassembly.

SEATS



09-13

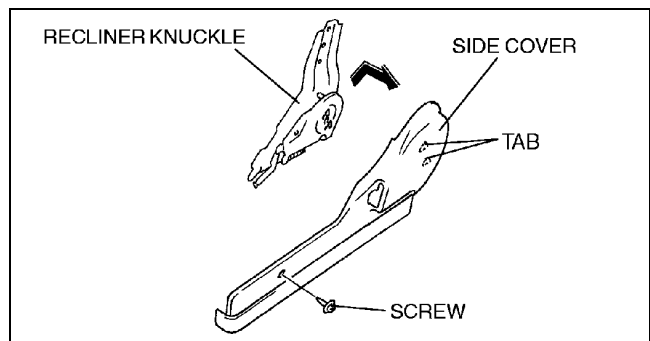
X3U913WA5

1	Headrest
2	Pole guide
3	Tilt dial
4	Recliner lever
5	Side cover (See 09-13-3 Side cover removal note)
6	Recliner knuckle
7	Front buckle
8	Hinge cover

9	Seat back trim
10	Seat back pad
11	Seat back frame
12	Seat cushion trim
13	Seat cushion pad
14	Seat cushion frame
15	Reverse cover
16	Slide adjuster

Side cover removal note

1. Remove the screws.
2. Lift the side cover up in the direction of the arrow, then unhook it from the recliner knuckle.



Y3U913WA3

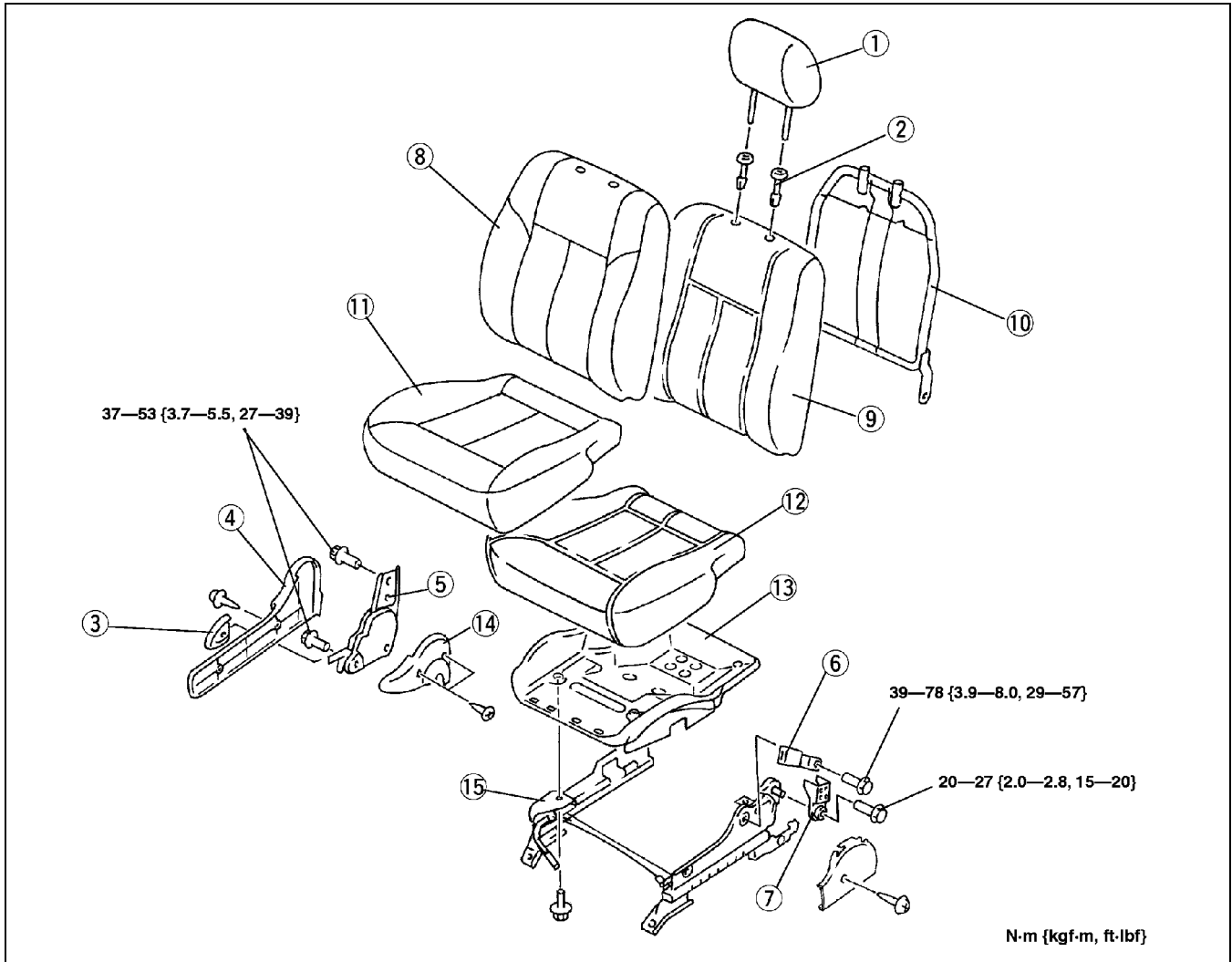
SEATS

Passenger's Seat

Warning

- Handling the front seat (side air bag) improperly can accidentally deploy the side air bag, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling the front seat. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

1. Remove the passenger-side side air bag module. (See 08-10-6 PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
2. Disassemble in the order indicated in the table.
3. Assemble in the reverse order of disassembly.



X3U913WA6

1	Headrest
2	Pole guide
3	Recliner lever
4	Side cover (See 09-13-3 Side cover removal note)
5	Recliner knuckle
6	Front buckle
7	Hinge cover

8	Seat back trim
9	Seat back pad
10	Seat back frame
11	Seat cushion trim
12	Seat cushion pad
13	Seat cushion frame
14	Reverse cover
15	Slide adjuster

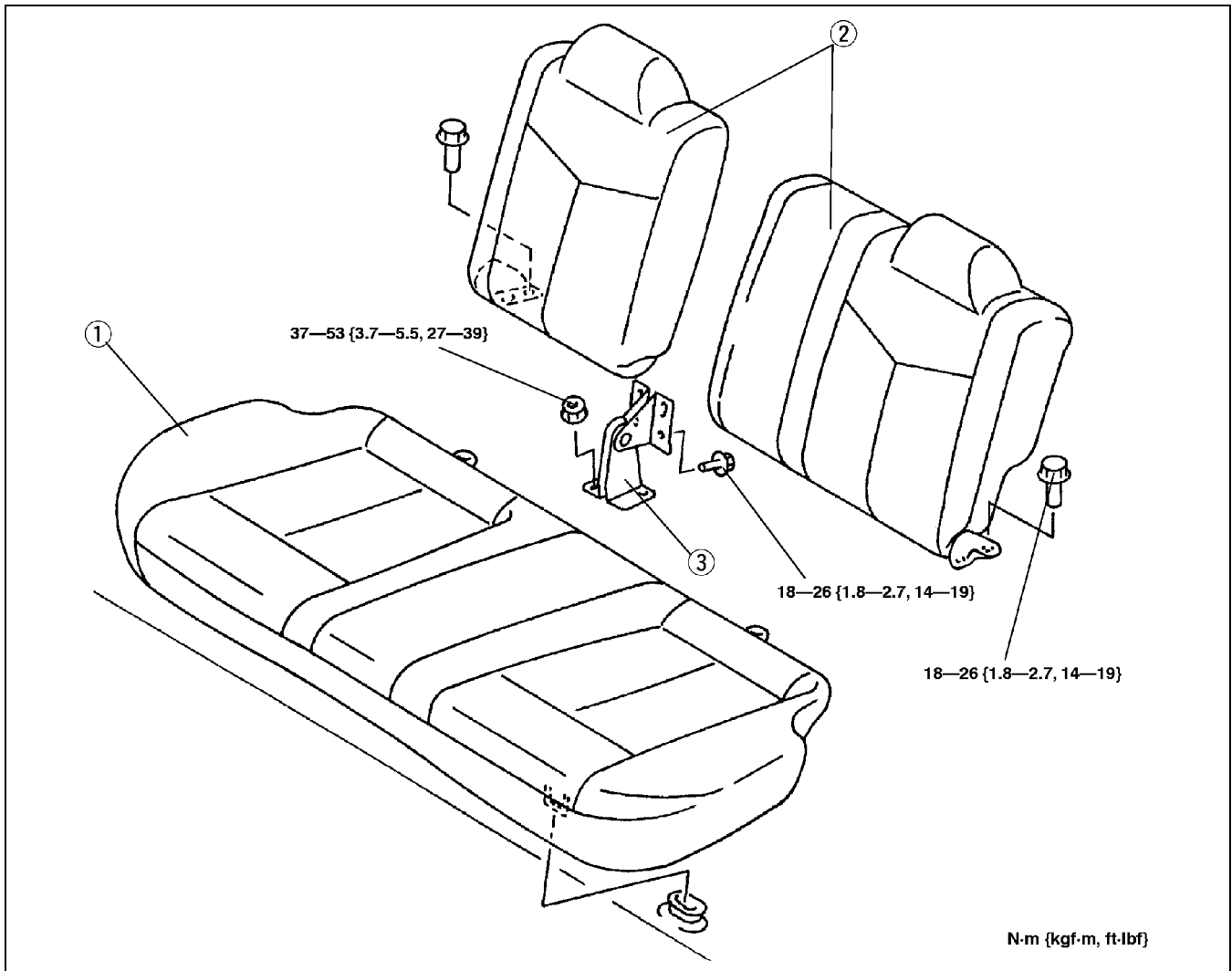
SEATS

REAR SEAT REMOVAL/INSTALLATION

A3U091357200W01

4SD

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



X3U913WA9

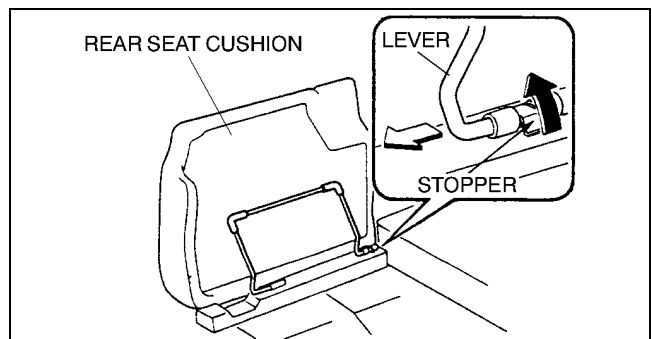
1	Rear seat cushion
2	Rear seat back

3	Center hinge
---	--------------

5HB

Rear seat cushion

1. Lift up the rear seat cushion.
2. Pull the stopper to release the lever, and remove the rear seat cushion.
3. Install in the reverse order of removal.



A3U0913W001

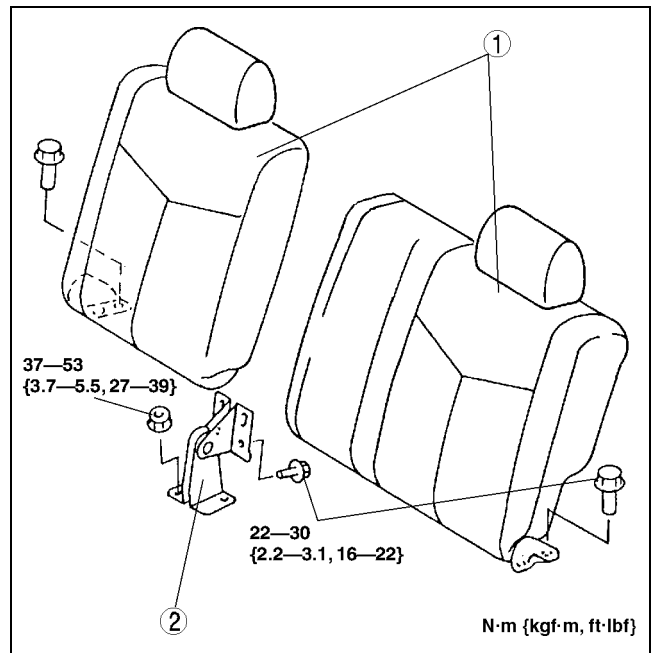
SEATS

Rear seat back

1. Lift up the rear seat cushion.
2. Remove the service hole cover.
3. Remove in the order indicated in the table.

1	Rear seat back
2	Center hinge

4. Install in the reverse order of removal.



A3U0913W002

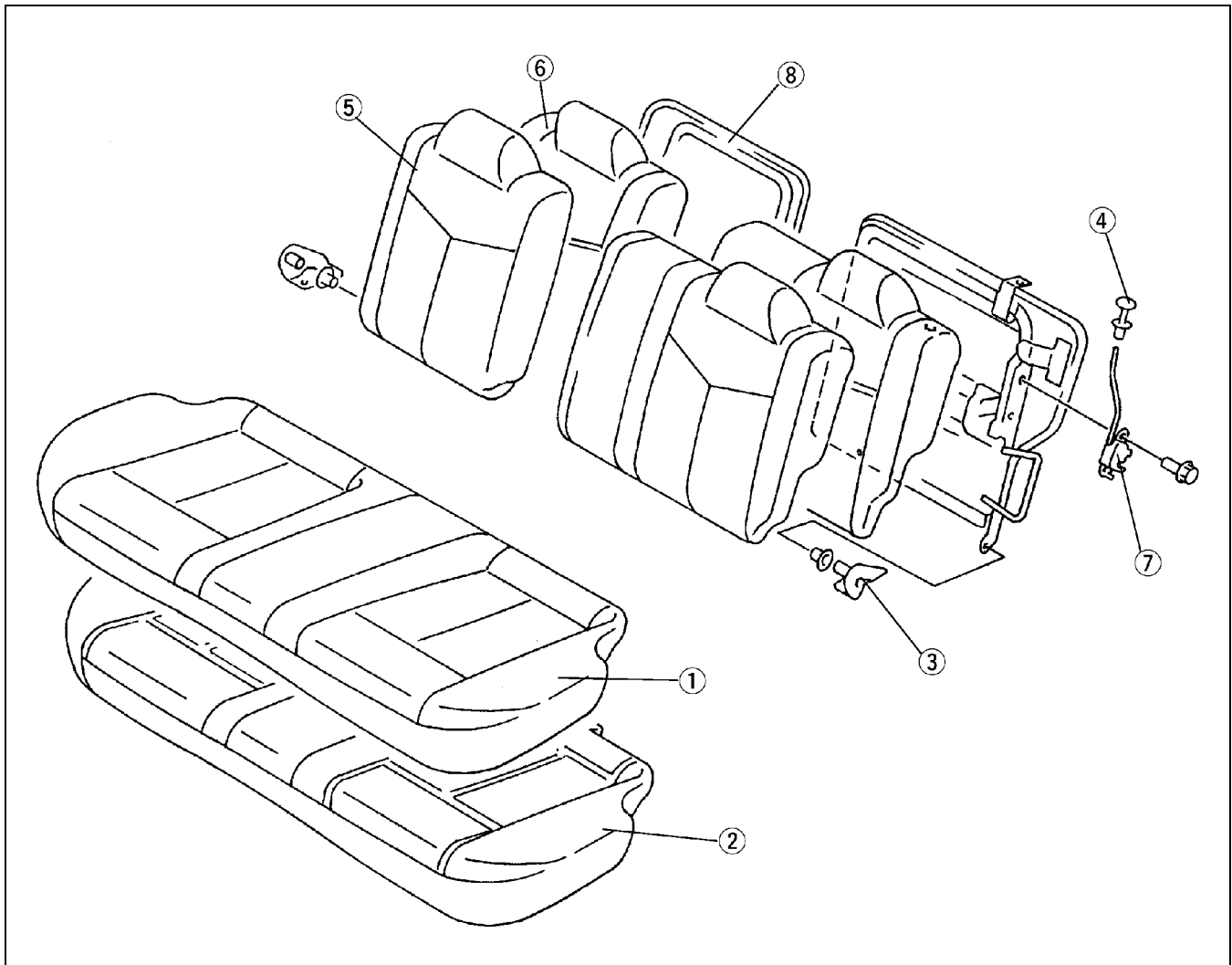
SEATS

REAR SEAT DISASSEMBLY/ASSEMBLY

A3U091357200W02

4SD

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



X3U913WAB

1	Seat cushion trim
2	Seat cushion pad
3	Side hinge
4	Recliner knob

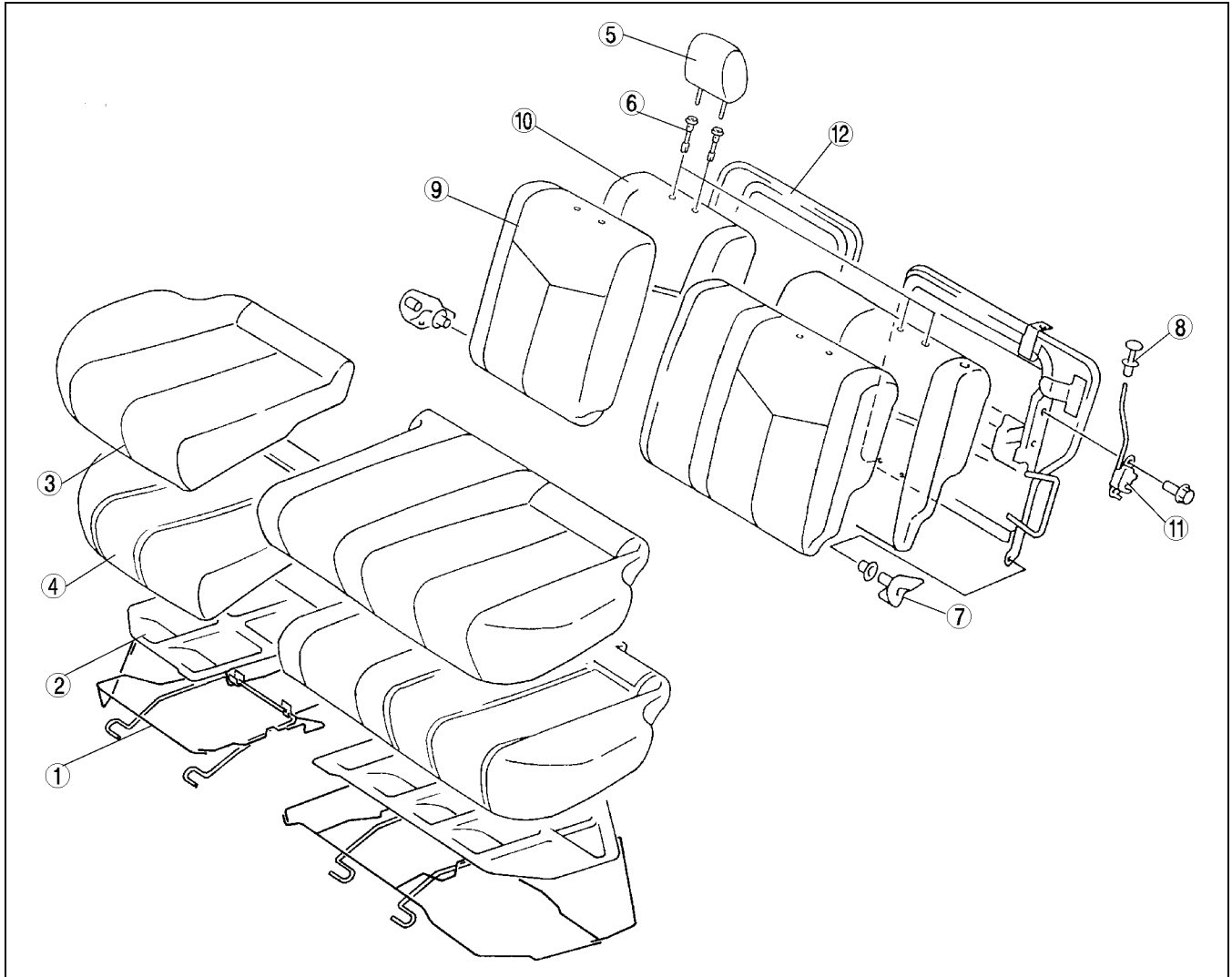
5	Seat back trim
6	Seat back pad
7	Rear back catch
8	Seat back frame

09-13

SEATS

5HB

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



A3U0913W003

1	Seat cushion frame
2	Seat cushion pad cover
3	Seat cushion trim
4	Seat cushion pad
5	Headrest
6	Pole guide

7	Side hinge
8	Recliner knob
9	Seat back trim
10	Seat back pad
11	Rear back catch
12	Seat back frame

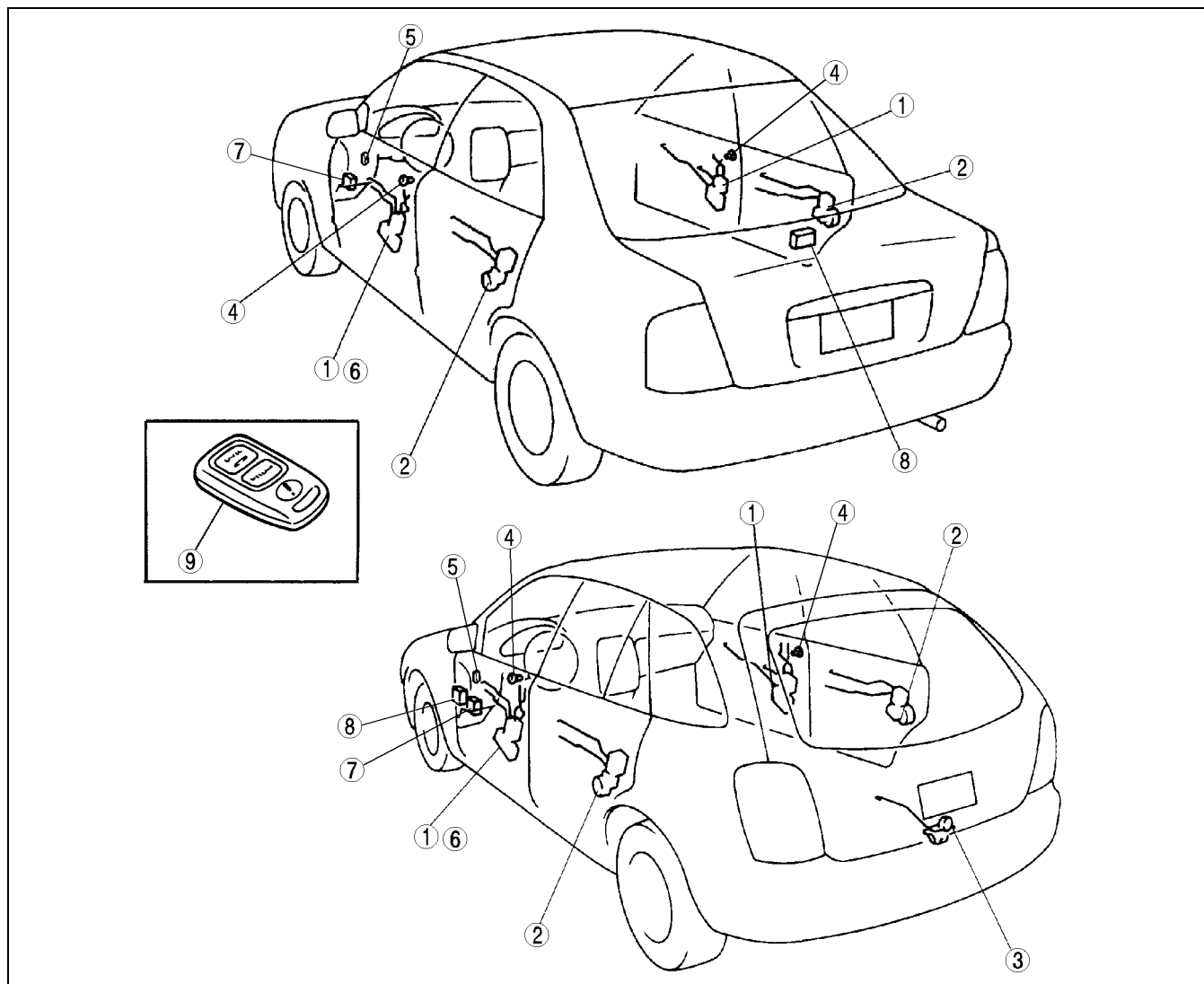
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SECURITY AND LOCKS

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A3U09146600W01



A3U0914W004

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3	Liftgate lock actuator (See 09-14-5 LIFTGATE LOCK ACTUATOR INSPECTION) (See 09-14-5 LIFTGATE LOCK ACTUATOR REMOVAL/INSTALLATION)
4	Door key cylinder switch (See 09-14-6 DOOR KEY CYLINDER SWITCH INSPECTION) (See 09-14-6 DOOR KEY CYLINDER SWITCH REMOVAL/INSTALLATION)
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9	Transmitter (See 09-14-15 TRANSMITTER BATTERY INSPECTION) (See 09-14-15 TRANSMITTER BATTERY REPLACEMENT)

SECURITY AND LOCKS

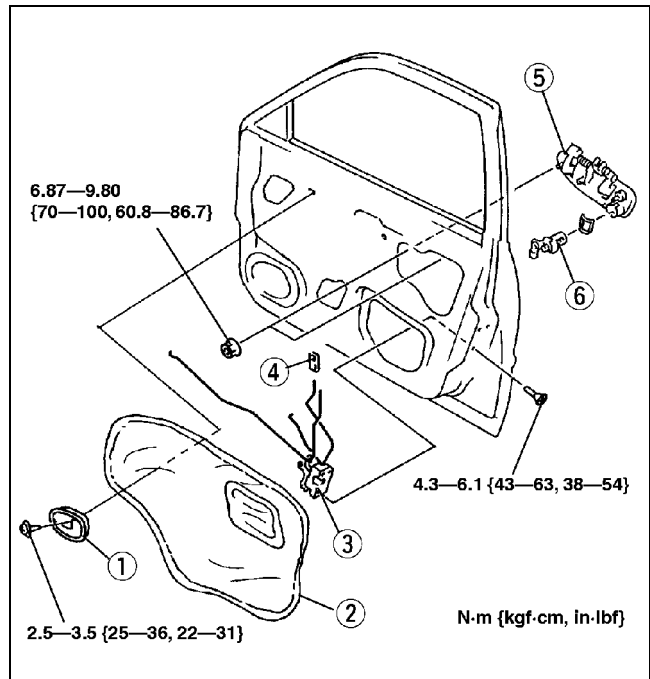
FRONT DOOR LOCK AND OPENER REMOVAL/INSTALLATION

A3U091458311W01

1. Close the front door glass completely.
2. Disconnect the negative battery cable.
3. Remove the front door trim. (See 09-17-9 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
4. Remove in the order indicated in the table.

1	Inner handle
2	Door screen
3	Front door lock
4	Door lock knob
5	Outer handle
6	Door key cylinder

5. Install in the reverse order of removal.



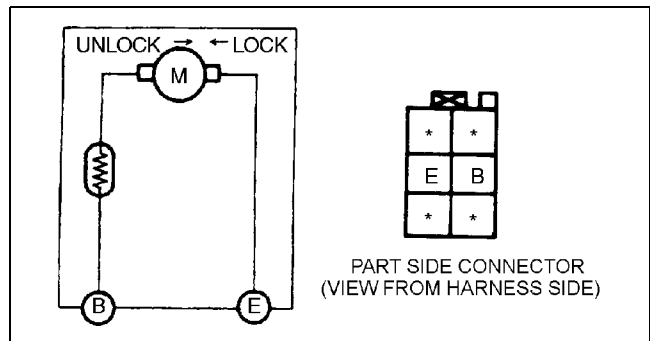
X3U914WA0

FRONT DOOR LOCK ACTUATOR INSPECTION

A3U091458310W01

1. Remove the front door trim.
2. Turn the door screen over.
3. Disconnect the front door lock actuator connector.
4. Apply battery positive voltage to the front door lock actuator terminals and inspect the operation of the front door lock actuator.
 - If not as specified, replace the front door lock.

Connection		Actuator operation
B+	GND	
E	B	Lock
B	E	Unlock



Z3U0914W010

FRONT DOOR LOCK ACTUATOR REMOVAL/INSTALLATION

A3U091458310W02

1. Disconnect the negative battery cable.
2. Remove the door screen. (See 09-14-3 FRONT DOOR LOCK AND OPENER REMOVAL/INSTALLATION.)
3. Disconnect the front door lock actuator connector.
4. Disconnect the rods from the outer handle and the door key cylinder.
5. Remove the screws, and then remove the front door lock.
6. Remove the screws, and then remove the front door lock actuator from the front door lock.
7. Install in the reverse order of removal.

SECURITY AND LOCKS

DOOR LOCK-LINK SWITCH INSPECTION

A3U091458211W01

Note

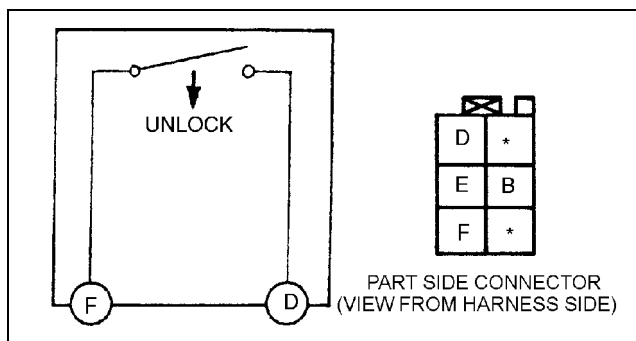
- The door lock-link switch is together with the driver-side door lock actuator.

- Remove the driver-side door trim.
- Turn the door screen over.
- Disconnect the door lock-link switch connector.
- Inspect for continuity between the door lock-link switch terminals using an ohmmeter.
 - If not as specified, replace the door lock actuator.

○—○ : Continuity

Lock knob position	Terminal	
	F	D
Lock		
Unlock	○—○	○—○

Z3U0914W012



Z3U0914W011

DOOR LOCK-LINK SWITCH REMOVAL/INSTALLATION

A3U091458211W02

Note

- The door lock-link switch is together with the driver-side door lock actuator.

- Remove the driver-side door lock actuator. (See 09-14-3 FRONT DOOR LOCK ACTUATOR REMOVAL/INSTALLATION.)

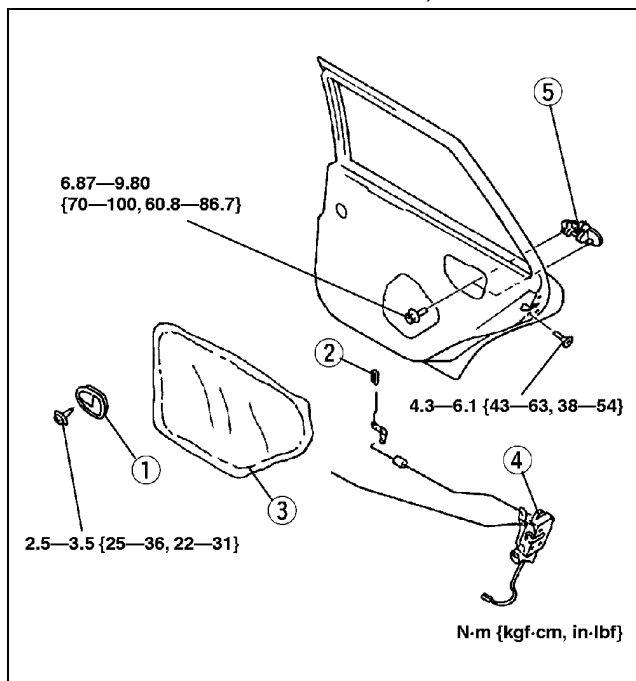
REAR DOOR LOCK AND OPENER REMOVAL/INSTALLATION

A3U091472311W01

- Close the rear door glass completely.
- Disconnect the negative battery cable.
- Remove the rear door trim. (See 09-17-9 REAR DOOR TRIM REMOVAL/INSTALLATION.)
- Remove in the order indicated in the table.

1	Inner handle
2	Door lock knob
3	Door screen
4	Rear door lock
5	Outer handle

- Install in the reverse order of removal.



X3U914WA2

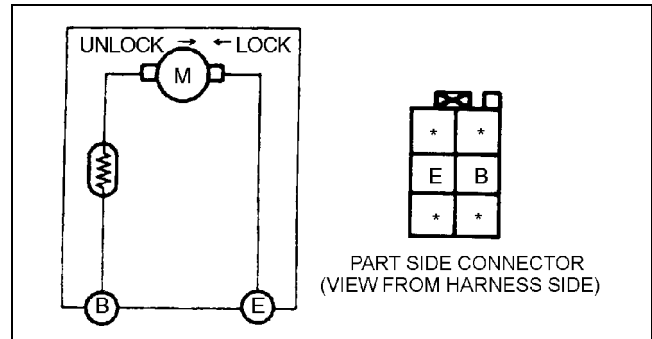
SECURITY AND LOCKS

REAR DOOR LOCK ACTUATOR INSPECTION

A3U091472310W01

1. Remove the rear door trim.
2. Turn the door screen over.
3. Disconnect the rear door lock actuator connector.
4. Apply battery positive voltage to the rear door lock actuator terminals and inspect the operation of the rear door lock actuator.
 - If not as specified, replace the rear door lock.

Connection		Actuator operation
B+	GND	
E	B	Lock
B	E	Unlock



Z3U0914W013

REAR DOOR LOCK ACTUATOR REMOVAL/INSTALLATION

A3U091472310W02

1. Disconnect the negative battery cable.
2. Remove the door screen. (See 09-14-4 REAR DOOR LOCK AND OPENER REMOVAL/INSTALLATION.)
3. Disconnect the rear door lock actuator connector.
4. Disconnect the rod from the outer handle.
5. Remove the screws, and then remove the rear door lock.
6. Remove the screws, and then remove the rear door lock actuator from the rear door lock.
7. Install in the reverse order of removal.

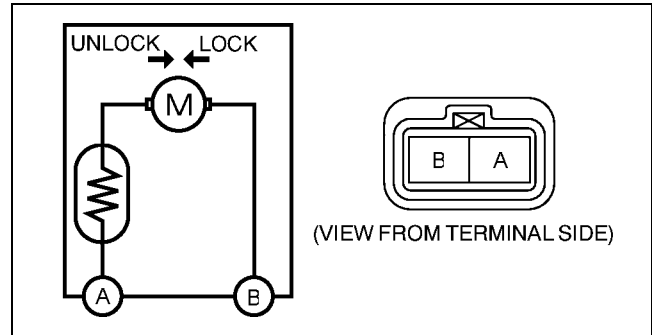
09-14

LIFTGATE LOCK ACTUATOR INSPECTION

A3U091462310W01

1. Disconnect the liftgate lock actuator connector.
2. Apply battery positive voltage to the liftgate lock actuator terminals and inspect the operation of the liftgate lock actuator.
 - If not as specified, replace the liftgate lock.

Connection		Actuator operation
B+	GND	
B	A	Lock
A	B	Unlock

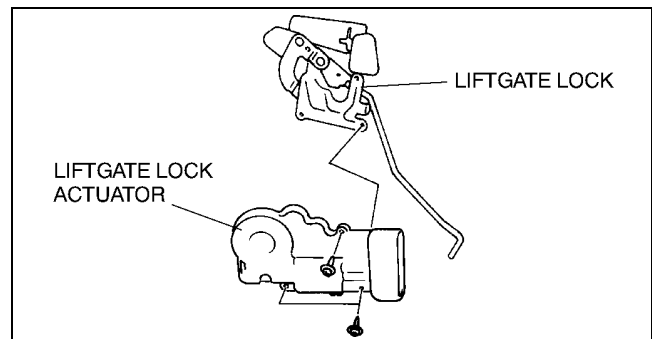


A3U0914W003

LIFTGATE LOCK ACTUATOR REMOVAL/INSTALLATION

A3U091462310W02

1. Disconnect the negative battery cable.
2. Remove the liftgate lock.
3. Remove the screws, then remove the liftgate lock actuator.
4. Install in the reverse order of removal.



A3U0914W002

SECURITY AND LOCKS

DOOR KEY CYLINDER SWITCH INSPECTION

A3U091475911W01

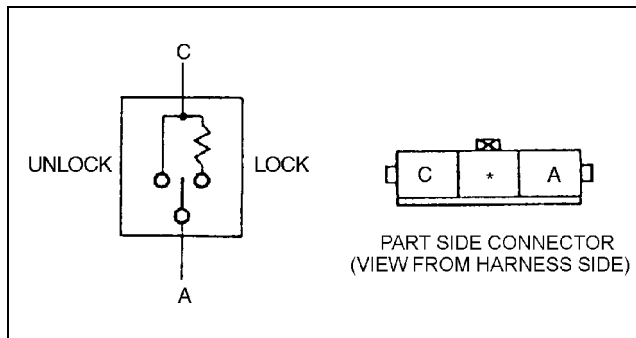
1. Raise the door glass completely.
2. Disconnect the negative battery cable.
3. Remove the passenger-side front door trim.
4. Remove the door screen.
5. Disconnect the door key cylinder switch connector.
6. Inspect for continuity between the door key cylinder switch terminals using an ohmmeter.
 - If not as specified, replace the door key cylinder switch.

○—○ : Continuity ○ Ω ○ : Resistance

Key cylinder position	Terminal	
	A	C
Neutral		
Lock	○— Ω —○	○ R
Unlock	○—○	○

R: 950—1050 Ω

X3U914WC7

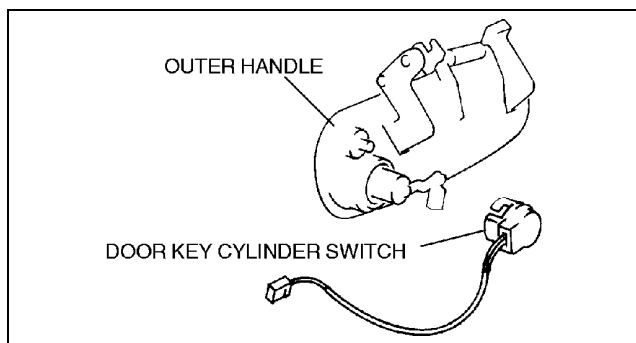


Z3U0914W014

DOOR KEY CYLINDER SWITCH REMOVAL/INSTALLATION

A3U091475911W02

1. Close the door glass completely.
2. Disconnect the negative battery cable.
3. Remove the passenger-side front door trim.
4. Remove the door screen.
5. Release the outer handle and the door key cylinder installation rods.
6. Disconnect the door key cylinder switch connector.
7. Remove the door key cylinder switch.
8. Install in the reverse order of removal.



X3U914WA5

DOOR LOCK SWITCH INSPECTION

A3U091466210W01

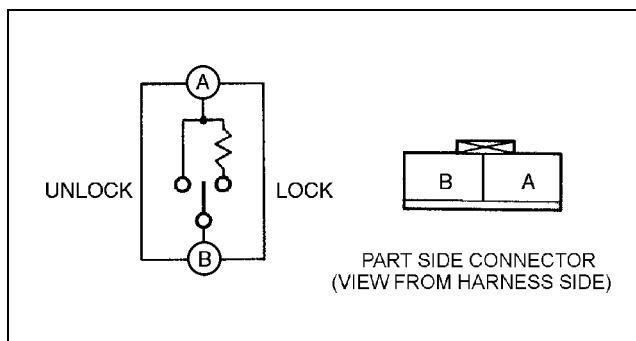
1. Remove the door lock switch.
2. Inspect for continuity between the door lock switch terminals using an ohmmeter.
 - If not as specified, replace the door lock switch.

○—○ : Continuity ○ Ω ○ : Resistance

Switch position	Terminal	
	A	B
Lock	○— Ω —○	○ R
Unlock	○—○	○

R: 950—1050 Ω

X3U914WA7



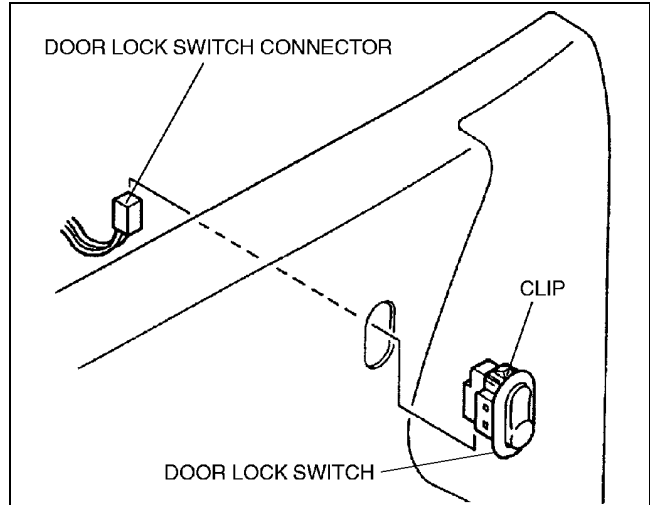
Y3U914WA3

SECURITY AND LOCKS

DOOR LOCK SWITCH REMOVAL/INSTALLATION

A3U091466210W02

1. Disconnect the negative battery cable.
2. Insert a tape-wrapped flathead screwdriver between the front door trim and the door lock switch and push the clip to remove the door lock switch.
3. Disconnect the door lock switch connector.
4. Install in the reverse order of removal.



Z3U0914W005

DOOR LOCK STRIKER REMOVAL/INSTALLATION

A3U091458361W01

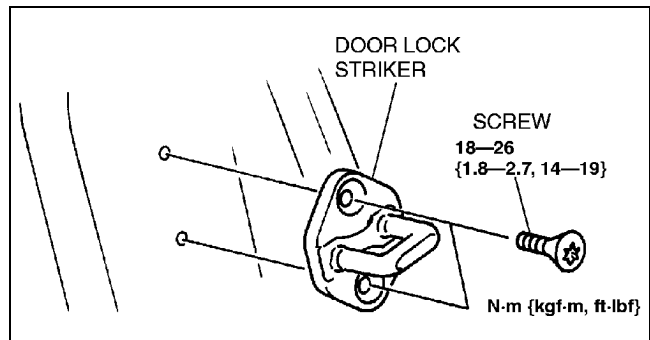
Warning

- Handling the side air bag sensor improperly can accidentally deploy the side air bag module, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before working around the B-pillar areas. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

Note

- The side air bag sensor is located in the B-pillar.

1. Disconnect the negative battery cable.
2. Remove the screws.
3. Remove the door lock striker.
4. Install in the reverse order of removal.

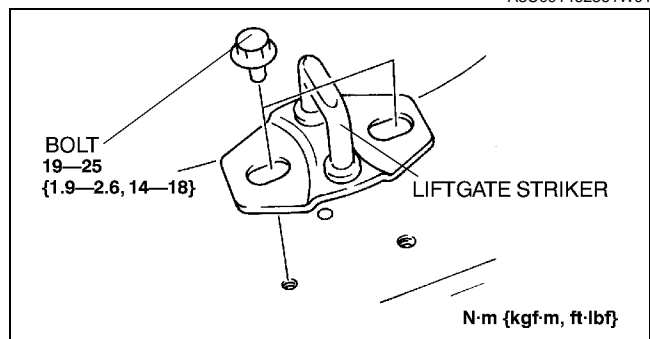


X3U914WA8

LIFTGATE LOCK STRIKER REMOVAL/INSTALLATION

A3U091462361W01

1. Remove the bolts.
2. Remove the liftgate striker.
3. Install in the reverse order of removal.

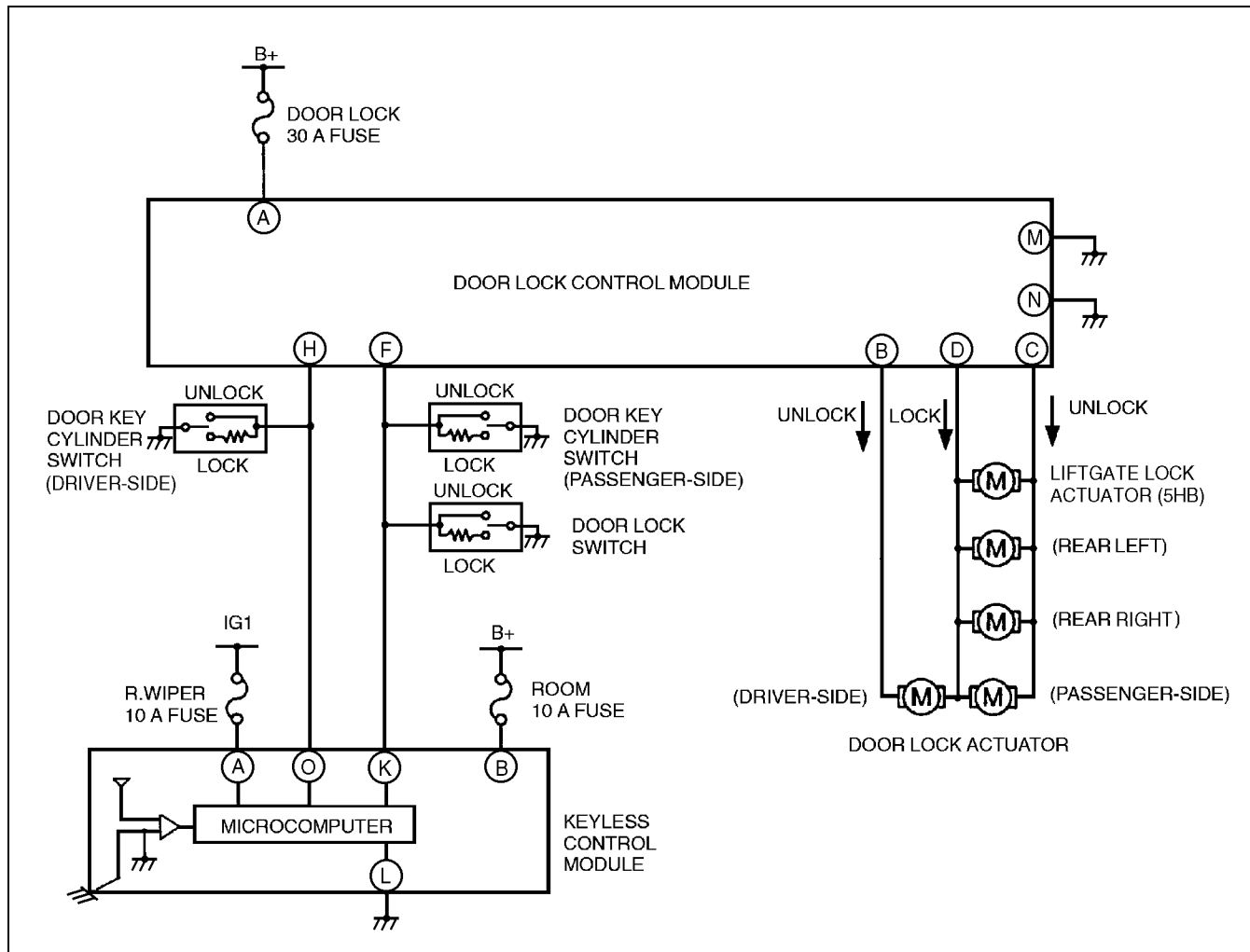


A3U0911W005

SECURITY AND LOCKS

POWER DOOR LOCK SYSTEM WIRING DIAGRAM

A3U09146600W02



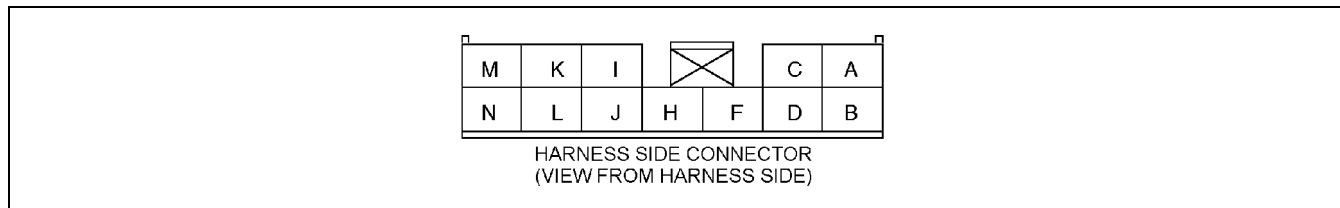
A3U0914W008

DOOR LOCK CONTROL MODULE INSPECTION

A3U091467830W01

1. Remove the lower panel.
2. Measure the voltage at the door lock control module terminals as indicated below.
3. Disconnect the door lock control module connector before inspecting for continuity at terminals F, H, M and N.
 - If not as specified, inspect the parts listed under "Action" and the related wiring harnesses.
 - If the parts and wiring harnesses are okay but the system still does not work properly, replace the door lock control module.

Terminal Voltage List (Reference)



Y3U914WA5

Terminal	Signal	Connected to	Test condition	Voltage (V)/continuity	Action
A	Power supply	DOOR LOCK 30 A fuse	Under any condition	B+	<ul style="list-style-type: none"> • Inspect DOOR LOCK 30 A fuse • Inspect related harness

SECURITY AND LOCKS

Terminal	Signal	Connected to	Test condition	Voltage (V)/continuity	Action
B	Unlock output	Driver-side door lock actuator	Driver-side door (door lock actuator) is unlocked	Below 1.0→B+→ Below 1.0	<ul style="list-style-type: none"> Inspect driver-side door lock actuator Inspect related harness
			Other	0	
C	Unlock output	Except driver-side door lock actuator	Except driver-side door (door lock actuator and liftgate lock actuator) is unlocked	Below 1.0→B+→Below 1.0	<ul style="list-style-type: none"> Inspect except driver-side door lock actuator Inspect related harness
			Other	Below 1.0	
D	Lock output	Door lock actuator	Door (door lock actuator) is locked	Below 1.0→B+→Below 1.0	<ul style="list-style-type: none"> Inspect door lock actuator Inspect related harness
			Other	Below 1.0	
F	Lock/unlock input	Passenger-side door key cylinder switch, door lock switch, and *keyless control module	Passenger-side door is locked with key	B+→5→B+ *5→2.5→5	<ul style="list-style-type: none"> Inspect passenger-side door key cylinder switch (See 09-14-6 DOOR KEY CYLINDER SWITCH INSPECTION) Inspect door lock switch (See 09-14-6 DOOR LOCK SWITCH INSPECTION) Inspect *keyless control module (See 09-14-11 KEYLESS CONTROL MODULE INSPECTION) Inspect related harness
			Passenger-side door is unlocked with key	B+→Below 1.0→B+ *5→Below 1.0→5	
			Door lock switch is locked	B+→5→B+ *5→2.5→5	
			Door lock switch is unlocked	B+→Below 1.0→B+ *5→Below 1.0→5	
			*Transmitter UNLOCK button is pressed twice within 5 seconds	5→Below 1.0→5	
			Other	B+	
				*5	
H	Unlock input	Driver-side door key cylinder switch, and *keyless control module	Driver-side door is locked with key	B+→5→B+ *5→2.5→5	<ul style="list-style-type: none"> Inspect driver-side door key cylinder switch (See 09-14-6 DOOR KEY CYLINDER SWITCH INSPECTION) Inspect *keyless control module (See 09-14-11 KEYLESS CONTROL MODULE INSPECTION) Inspect related harness
			Driver-side door is unlocked with key	B+→Below 1.0→B+ *5→Below 1.0→5	
			*Transmitter LOCK button is pressed	5→2.5→5	
			*Transmitter UNLOCK button is pressed once	5→Below 1.0→5	
			Other	B+	
				*5	
I	-	-	-	-	-
J	-	-	-	-	-
K	-	-	-	-	-
L	-	-	-	-	-
M	Signal ground	GND	Under any condition: inspect for continuity to ground	Yes	-
N	Power ground	GND	Under any condition: inspect for continuity to ground	Yes	-

* : Equipped with keyless entry system

SECURITY AND LOCKS

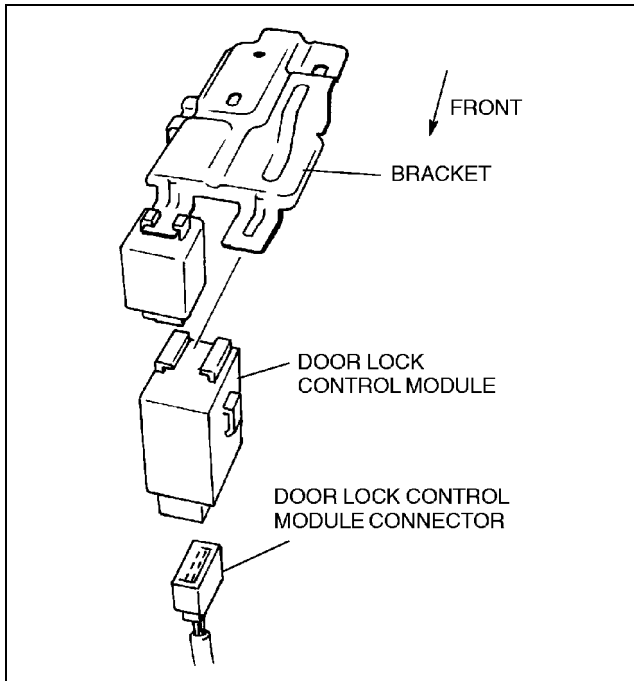
DOOR LOCK CONTROL MODULE REMOVAL/INSTALLATION

A3U091467830W02

Note

- Because the lock section of the module is damaged easily, do not remove the module from the bracket unless replacement is necessary. Always perform an inspection of the door lock control module before removal.

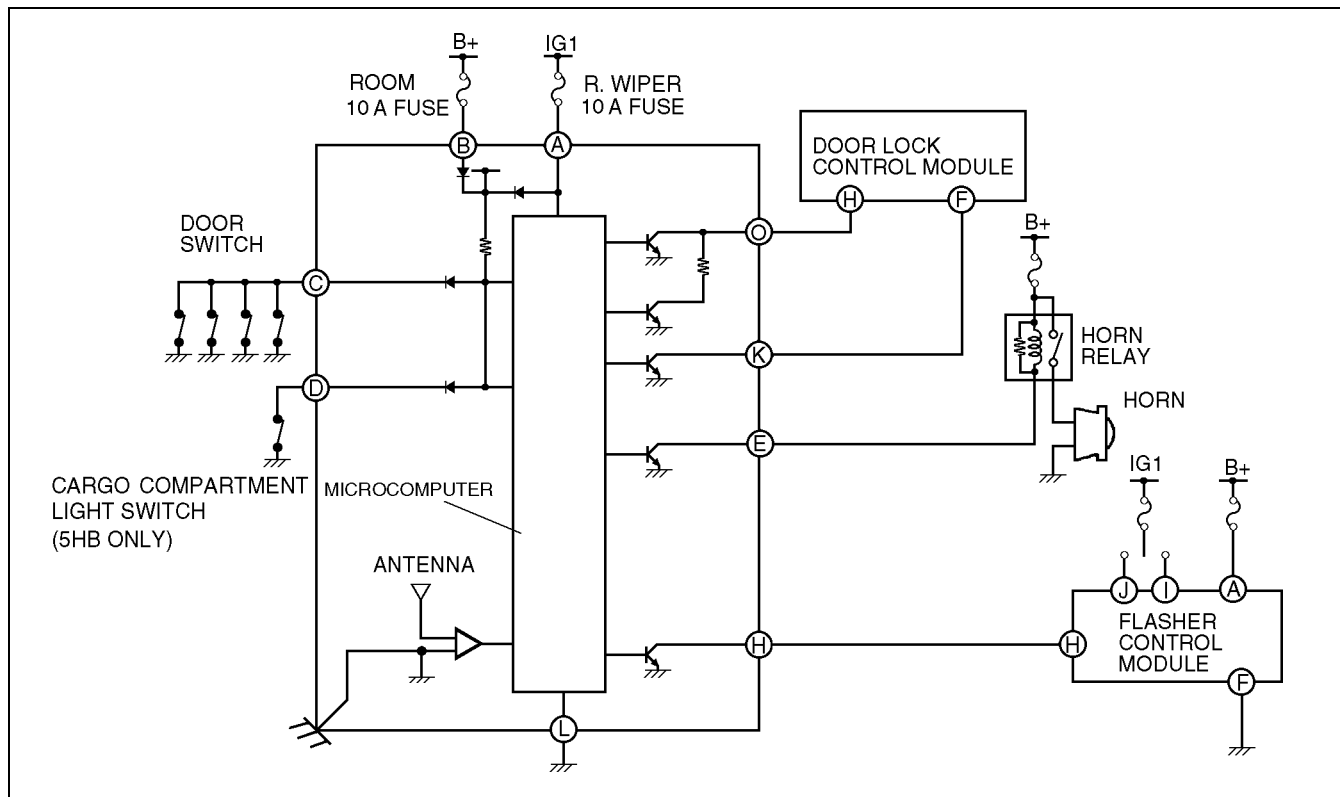
1. Disconnect the negative battery cable.
2. Remove the lower panel.
3. Remove the bracket.
4. Disconnect the door lock control module connector.
5. Remove the door lock control module by prying the lock section of the upper part with a flathead screwdriver.
6. Install in the reverse order of removal.



X3U914WB0

KEYLESS ENTRY SYSTEM WIRING DIAGRAM

A3U091469000W01



A3U0903W001

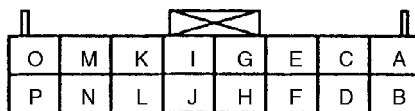
SECURITY AND LOCKS

KEYLESS CONTROL MODULE INSPECTION

A3U091467540W01

1. Pull out the keyless control module with the connector connected.
2. Measure the voltage at the keyless control module terminals (other than terminal L) as indicated below.
 - If not as specified, inspect the parts listed under "Action."
3. Disconnect the negative battery cable.
4. Disconnect the keyless control module connector and inspect for continuity between terminal L and bracket.
5. Inspect for continuity at terminal L as indicated below.
6. If the parts and wiring harnesses are okay but the system still does not work properly, perform the troubleshooting.

Terminal Voltage List (Reference)



HARNESS SIDE CONNECTOR
(VIEW FROM HARNESS SIDE)

Y3U914WA6

Terminal	Signal	Connected to	Test condition	Voltage (V)/ Continuity	Action
A	IG1	R. WIPE 10 A fuse	Ignition switch is at ON position	B+	<ul style="list-style-type: none"> • Inspect R. WIPE 10 A fuse • Inspect related harness
			Ignition switch is at LOCK or ACC position	Below 1.0	
B	Power supply	ROOM 10 A fuse	Under any condition	B+	<ul style="list-style-type: none"> • Inspect ROOM 10 A fuse • Inspect related harness
C	Door open/ closed	Door switch	Any door is open (any door switch is on)	Below 1.0	<ul style="list-style-type: none"> • Inspect door switches • Inspect related harness
			All door are closed (door switches are off)	B+	
D	Liftgate open/ closed	Cargo compartment light switch	Liftgate is open (cargo compartment light switch is on)	Below 1.0	<ul style="list-style-type: none"> • Inspect cargo compartment light switch • Inspect related harness
			Liftgate is closed (cargo compartment light switch is off)	B+	
E	Horn	Horn relay	Transmitter panic button is pressed	Alternates between B+ and Below 1.0	<ul style="list-style-type: none"> • Inspect transmitter • Inspect horn relay • Inspect related harness
			Transmitter panic button is not pressed	B+	
F	-	-	-	-	-
G	-	-	-	-	-
H	Hazard	Flasher control module	Transmitter panic button is pressed	Alternates between B+ and Below 1.0	<ul style="list-style-type: none"> • Inspect flasher control module • Inspect related harness
			Transmitter LOCK button is pressed	B+→Below 1.0→B+	
			Transmitter UNLOCK button is pressed once	B+→Below 1.0→B+→Below 1.0→B+	
			No transmitter buttons are pressed	B+	
I	-	-	-	-	-
J	-	-	-	-	-
K	Unlock output	Door lock control module	Transmitter UNLOCK button is pressed twice within 5 seconds. (second value)	5→Below 1.0→5	<ul style="list-style-type: none"> • Inspect door lock control module • Inspect related harness
			Other	5	

SECURITY AND LOCKS

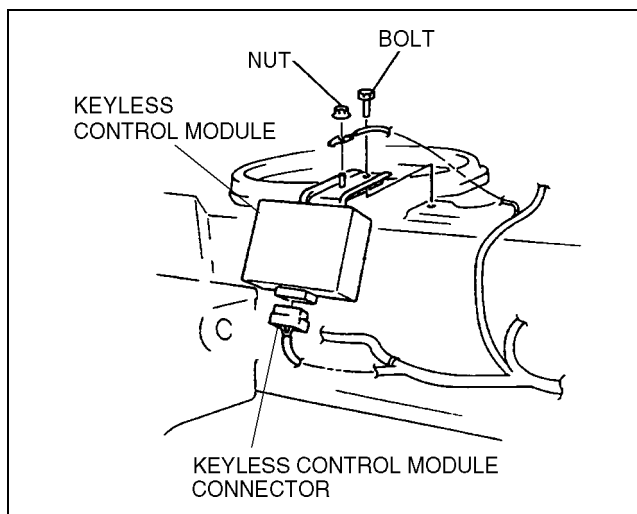
Terminal	Signal	Connected to	Test condition	Voltage (V)/ Continuity	Action
L	Ground	GND	Under any condition: inspect for continuity to ground	Yes	-
M	-	-	-	-	-
N	-	-	-	-	-
O	Lock/unlock output	Door lock control module	Transmitter LOCK button is pressed	5→2.5→5	<ul style="list-style-type: none"> • Inspect door lock control module • Inspect related harness
			Transmitter UNLOCK button is pressed once	5→Below 1.0→5	
			No transmitter buttons are pressed	5	
P	-	-	-	-	-

KEYLESS CONTROL MODULE REMOVAL/INSTALLATION

A3U091467540W02

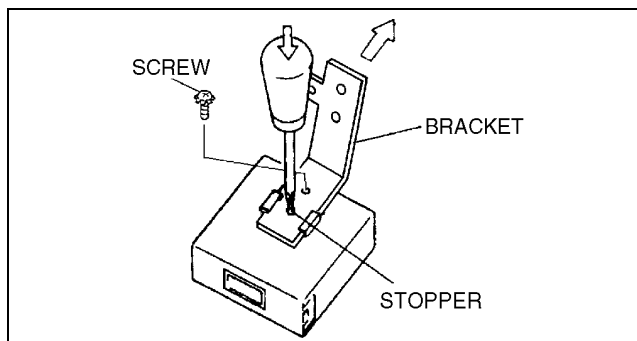
4SD

1. Disconnect the negative battery cable.
2. Remove the rear package trim.
3. Disconnect the keyless control module connector.
4. Remove the nut and bolt to remove the keyless control module and the bracket as a module.



Y3E7718W002

5. Remove the screw.
6. Push the stopper using a small driver, and remove the bracket.
7. Install in the reverse order of removal.

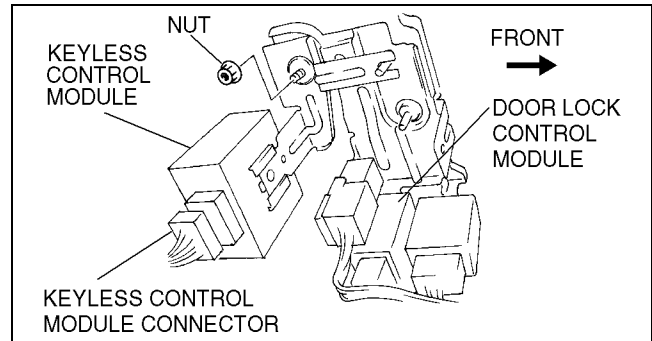


Y3E7718W003

SECURITY AND LOCKS

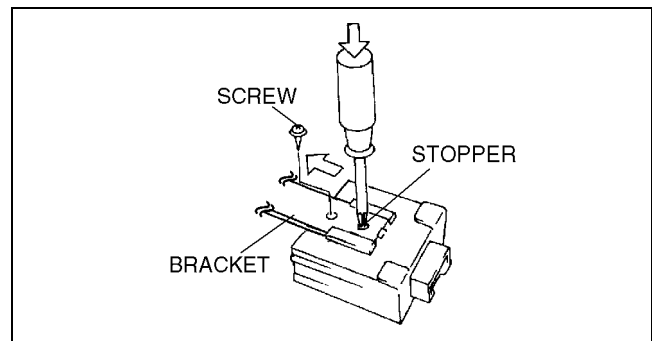
5HB

1. Disconnect the negative battery cable.
2. Disconnect the keyless control module connector. (under driver's side dash)
3. Remove the bolt to remove the keyless control module and the bracket as a module.



A3U0914W007

4. Remove the screw.
5. Push the stopper using a small driver, and remove the bracket.
6. Install in the reverse order of removal.



A3U0914W005

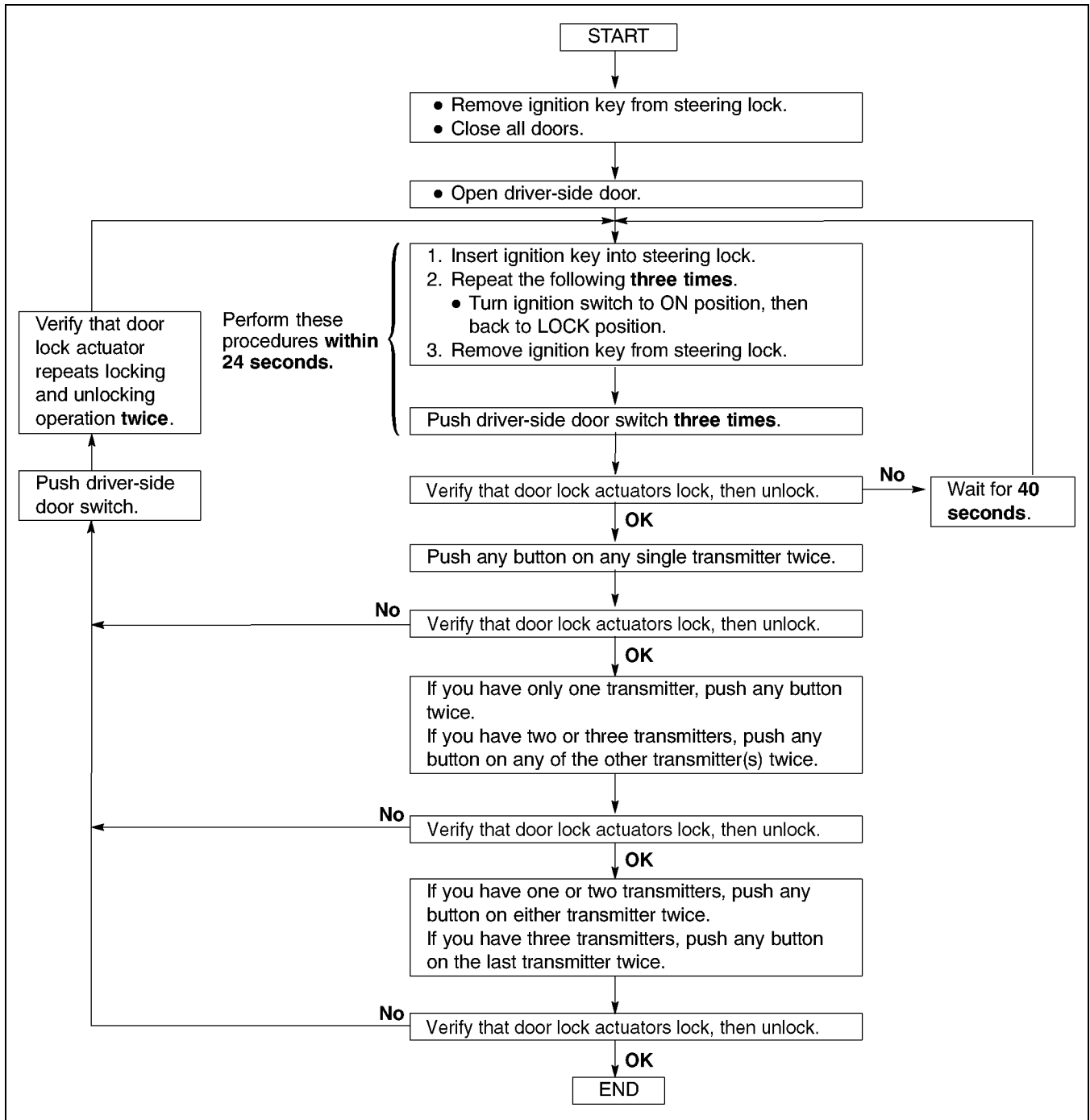
09-14

SECURITY AND LOCKS

KEYLESS CONTROL MODULE ID CODE CHANGE

A3U091467540W03

- When programming the ID code into a transmitter, verify that other transmitters are not being operated in the vicinity.
- Program the ID code as indicated in the procedure below.



YLE7718W010

SECURITY AND LOCKS

TRANSMITTER BATTERY INSPECTION

A3U091467543W01

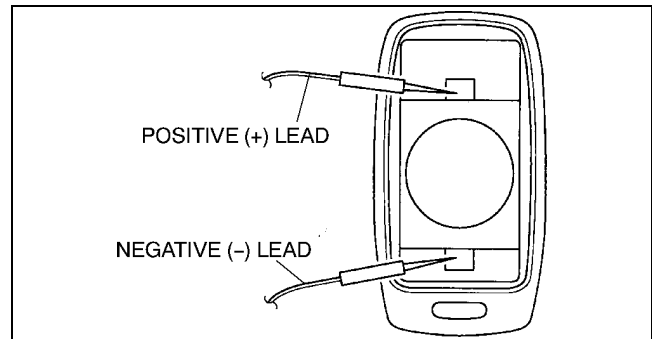
Caution

- Since the battery voltage does not drop fully if the button is pushed for only 4 seconds or less, it cannot be properly examined to see whether it is good or bad. Always push the button for 5 seconds.

Note

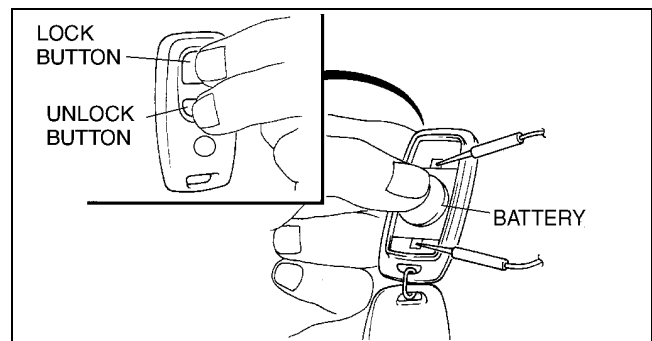
- Since a correct measurement cannot be obtained if the battery temperature is low, make sure the battery has been at **18 °C {64 °F} or more** for **at least 30 minutes** before reinspecting when a measurement value is under the standard voltage.

1. Remove the transmitter cover.
2. Apply the circuit tester leads to the positions as indicated in the figure.



YDE7718W003

3. While pressing the battery as shown in the figure, press the LOCK and UNLOCK buttons on the transmitter at the same time to start measurement of the voltage.
4. Release the buttons after **5 seconds**.
5. Verify that the minimum voltage is the standard voltage or more for **10 seconds** after starting measurement.
 - If the voltage is under the standard voltage, replace the battery.



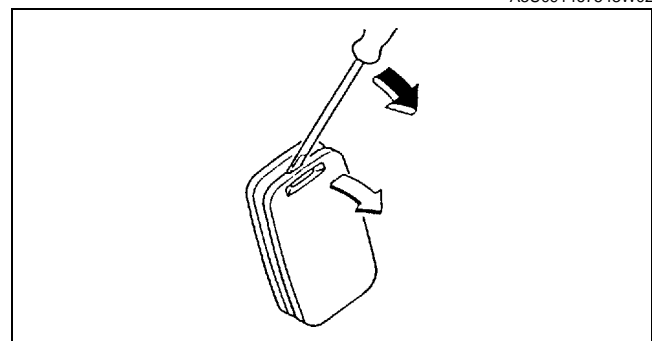
Z3U0914W006

Standard voltage
2.7 V

09-14

TRANSMITTER BATTERY REPLACEMENT

1. Insert a small flathead screwdriver into the slot and gently pry open the transmitter.



YMU914WAS

A3U091467543W02

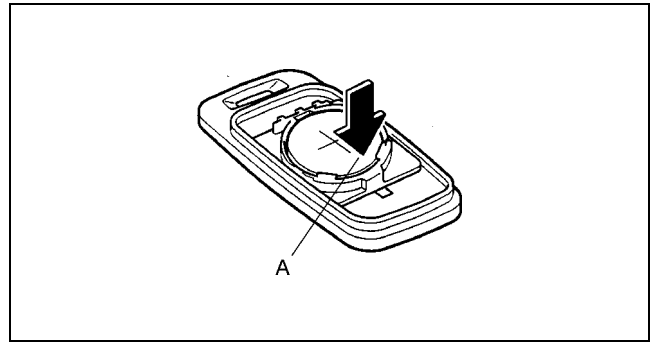
SECURITY AND LOCKS

2. Press the portion of the battery indicated by A and remove the battery.
3. Install a new battery (CR2025 or the equivalent) into the front portion of the holder with the positive pole (+) facing up. Press on the B portion of the battery to set the battery.
4. Align the front and back covers and snap the transmitter shut.

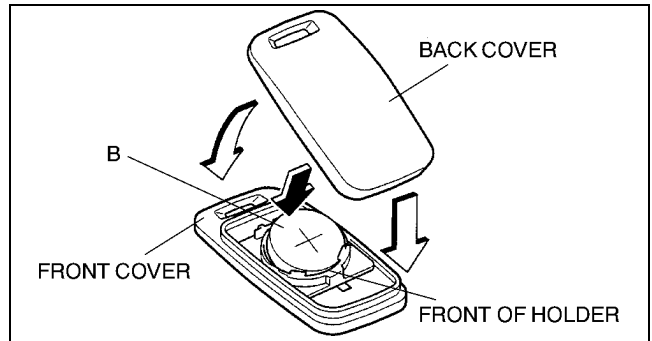
Battery specification
Lithium CR2025 × 1

Note

- The batteries will last about **2 years** when used **10 times** a day.



YDE7718W001

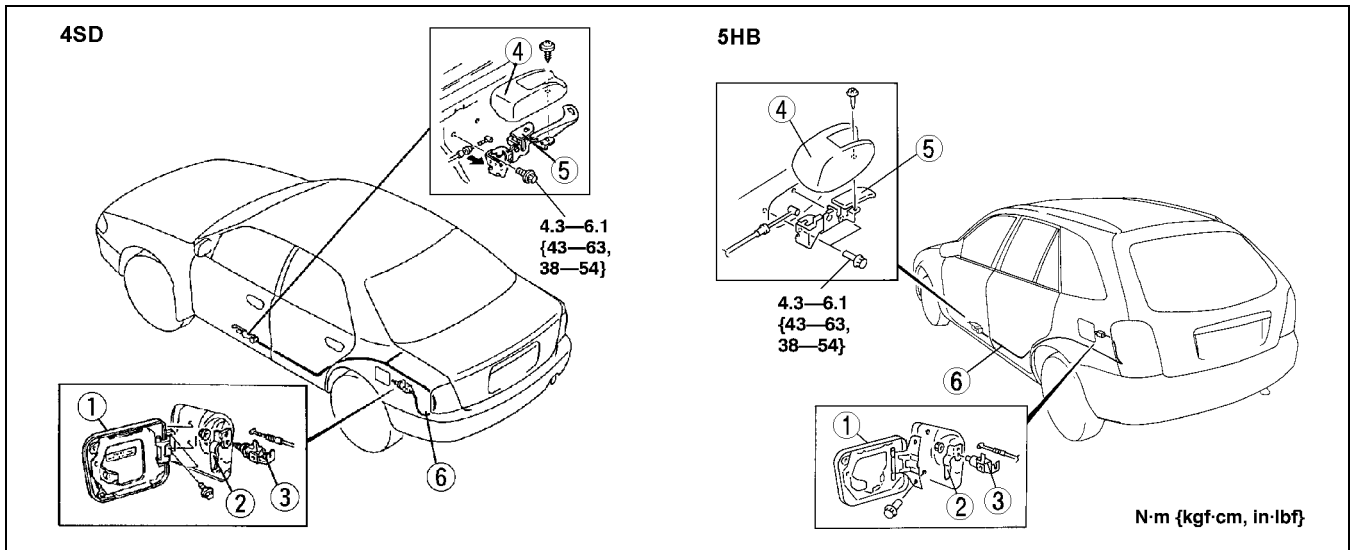


YDE7718W002

FUEL-FILLER LID AND OPENER REMOVAL/INSTALLATION

A3U091456890W01

1. To remove the fuel-filler lid opener, remove the left side trunk side trim.
2. To remove the fuel-filler lid opener cable, perform the following.
 - (1) Remove the driver's seat. (See 09-13-1 FRONT SEAT REMOVAL/INSTALLATION.)
 - (2) Remove the driver-side front and rear scuff plate.
 - (3) Remove the driver-side B-pillar lower trim.
 - (4) Remove the driver's seat belt lower anchor.
 - (5) Remove the driver-side tire house trim.
 - (6) Remove the driver-side trunk side trim.
 - (7) Turn the floor covering over.
3. Install in the reverse order of removal.
4. Remove in the order indicated in the table.
5. Adjust the fuel-filler lid. (See 09-10-1 FUEL-FILLER LID ADJUSTMENT.)



N·m {kgf·cm, in·lbf}

A3U0914W001

1	Fuel-filler lid
2	Lift spring
3	Fuel-filler lid opener

4	Cover
5	Fuel-filler lid opener lever
6	Fuel-filler lid opener cable

SECURITY AND LOCKS

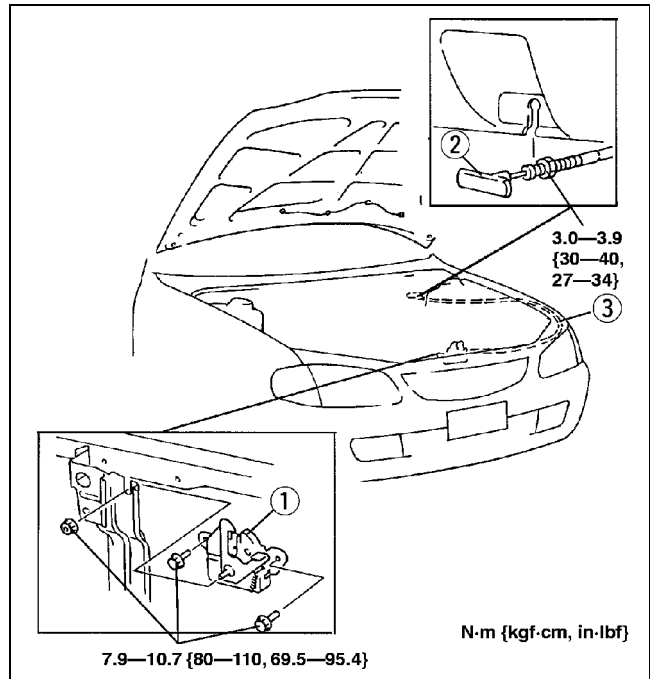
HOOD LOCK AND OPENER REMOVAL/INSTALLATION

1. Remove in the order indicated in the table.

1	Hood lock
2	Hood release lever
3	Hood release cable

2. Install in the reverse order of removal.

A3U091456620W01



X3U914WB2

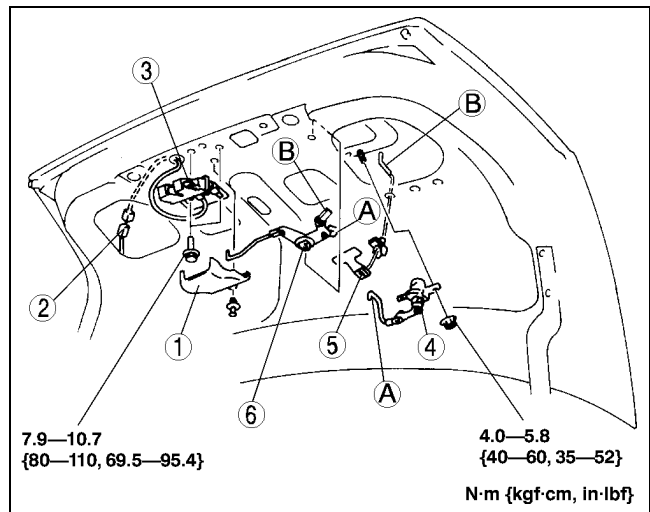
TRUNK LID LOCK REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.

1	Cover
2	Connector
3	Trunk lid lock
4	Trunk lid lock cylinder
5	Internal trunk lid release handle (See 09–14–17 Internal Trunk Lid Release Handle Installation Note.)
6	Rod

3. Install in the reverse order of removal.

A3U091456820W01



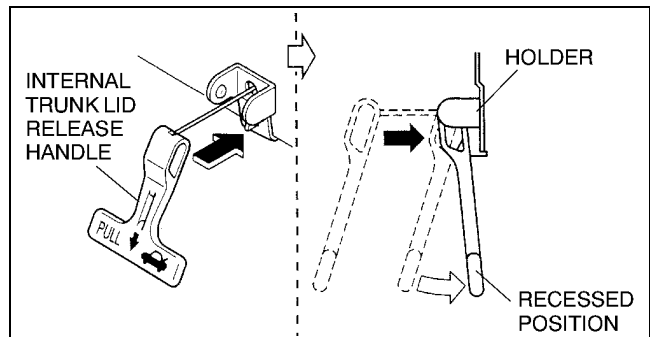
Z3U0914W008

Internal Trunk Lid Release Handle Installation Note

Caution

- Always keep the handle firmly attached to the holder and in the recessed position. Not securing the handle this way could allow it to snag luggage in the compartment and open the trunk lid.

1. After installation of the internal trunk lid release handle, pull the handle forward to verify the handle and rod are securely installed.
2. Attach the handle to the holder and in the recessed position.



Z3U0914W009

SECURITY AND LOCKS

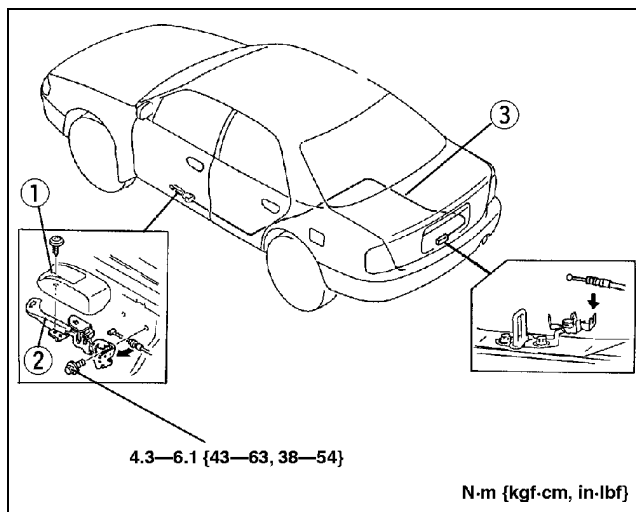
TRUNK LID OPENER REMOVAL/INSTALLATION

A3U091456822W01

- To remove the trunk lid opener cable, perform the following.
 - Remove the driver's seat. (See 09-13-1 FRONT SEAT REMOVAL/INSTALLATION.)
 - Remove the driver-side front and rear scuff plate.
 - Remove the driver-side B-pillar lower trim. (See 09-17-10 B-PILLAR LOWER TRIM REMOVAL.) (See 09-17-11 B-PILLAR LOWER TRIM INSTALLATION.)
 - Remove the driver's seat belt lower anchor.
 - Remove the passenger's side tire house trim. (See 09-17-13 TIRE HOUSE TRIM REMOVAL/INSTALLATION.)
 - Remove the trunk end trim. (See 09-17-14 TRUNK END TRIM REMOVAL/INSTALLATION.)
 - Turn the floor covering over.
- Remove in the order indicated in the table.

1	Cover
2	Trunk lid opener lever
3	Trunk lid opener cable

- Install in the reverse order of removal.
- Adjust the trunk lid opener cable. (See 09-14-18 TRUNK LID OPENER CABLE ADJUSTMENT.)



X3U914WC1

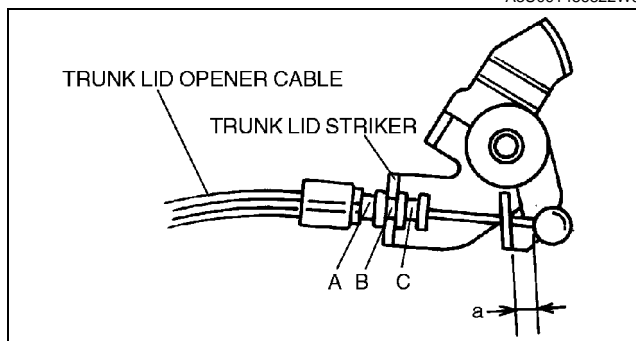
TRUNK LID OPENER CABLE ADJUSTMENT

A3U091456822W02

- Install the trunk lid striker to one of the three places (A, B, and C) so that the play of the trunk lid opener cable is within the specified clearance.
 - If not as specified, move to the next location.

Clearance

a: 0.3—4.5 mm {0.02—0.17 in}

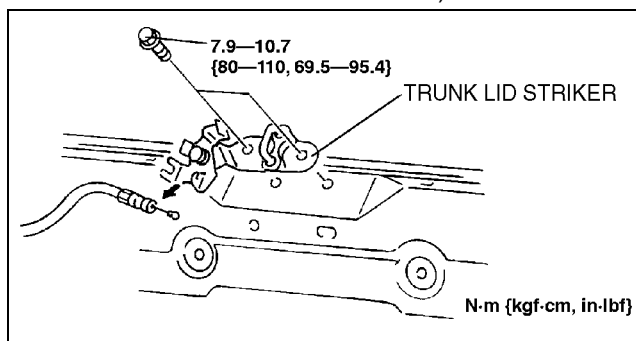


X3U914WC2

TRUNK LID STRIKER REMOVAL/INSTALLATION

A3U091456840W01

- Remove the trunk end trim. (See 09-17-14 TRUNK END TRIM REMOVAL/INSTALLATION.)
- Remove the bolts, then remove the trunk lid striker.
- Install in the reverse order of removal.
- Adjust the trunk lid opener cable. (See 09-14-18 TRUNK LID OPENER CABLE ADJUSTMENT.)



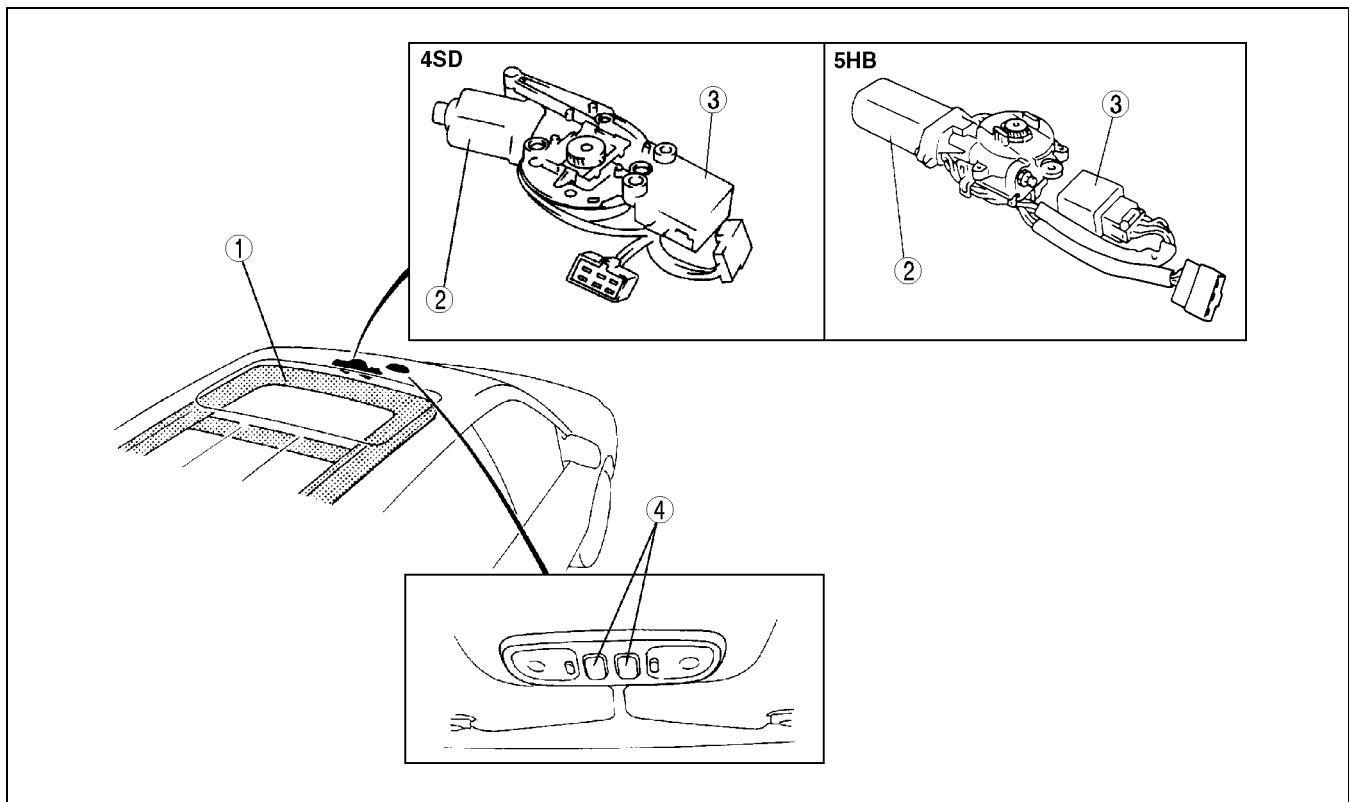
Z3U0914W004

09-15 SUNROOF

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5HB	09-15-2	SUNROOF MOTOR INSPECTION	09-15-12
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GLASS PANEL		5HB	09-15-13
REMOVAL/INSTALLATION	09-15-3	SUNROOF RELAY	
FRONT DRAIN HOSE REMOVAL	09-15-4	REMOVAL/INSTALLATION	09-15-14
FRONT DRAIN HOSE INSTALLATION	09-15-4	4SD	09-15-14
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REAR DRAIN HOSE INSTALLATION	09-15-5	SLIDING SUNROOF SYSTEM	
SUNROOF UNIT		WIRING DIAGRAM	09-15-14
REMOVAL/INSTALLATION	09-15-5	SUNROOF RELAY INSPECTION	09-15-16
SUNROOF UNIT DISASSEMBLY	09-15-5	4SD	09-15-16
4SD	09-15-5	5HB	09-15-17
5HB	09-15-7	SUNROOF SWITCH	
SUNROOF UNIT ASSEMBLY	09-15-8	REMOVAL/INSTALLATION	09-15-18
4SD	09-15-8	SUNROOF SWITCH INSPECTION	09-15-18

LOCATION INDEX

A3U091501049W01



A3U0915W024

1	Sunroof unit (See 09-15-5 SUNROOF UNIT REMOVAL/INSTALLATION) (See 09-15-8 SUNROOF UNIT ASSEMBLY) (See 09-15-5 SUNROOF UNIT DISASSEMBLY)
2	Sunroof motor (See 09-15-5 SUNROOF UNIT REMOVAL/INSTALLATION)

3	Sunroof relay (See 09-15-14 SUNROOF RELAY REMOVAL/INSTALLATION) (See 09-15-16 SUNROOF RELAY INSPECTION)
4	Sunroof switch (See 09-15-18 SUNROOF SWITCH INSPECTION) (See 09-15-18 SUNROOF SWITCH REMOVAL/INSTALLATION)

SUNROOF

A3U091569880W01

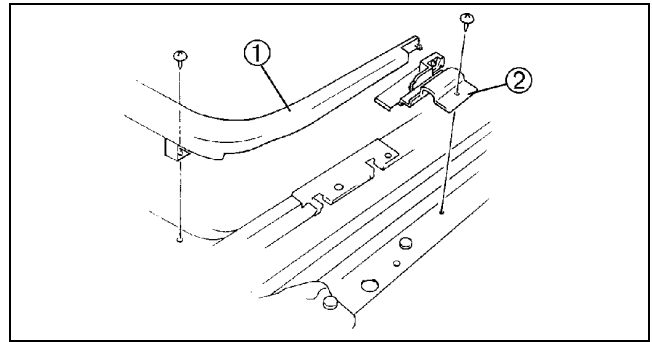
DEFLECTOR REMOVAL/INSTALLATION

4SD

1. Fully open the glass panel.
2. To remove the stopper, remove the sunroof unit. (See 09-15-5 SUNROOF UNIT REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Deflector (See 09-15-2 Deflector Removal Note)
2	Stopper

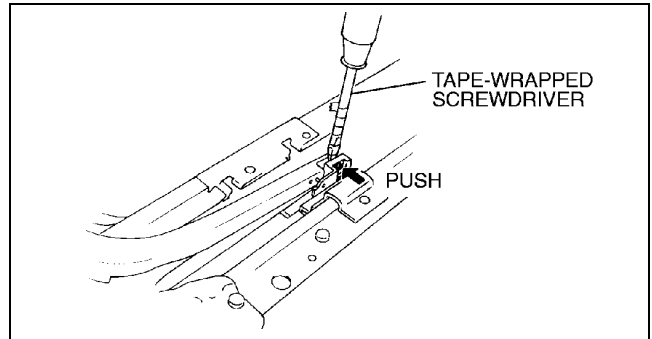
4. Install in the reverse order of removal.



X3U915WA2

Deflector Removal Note

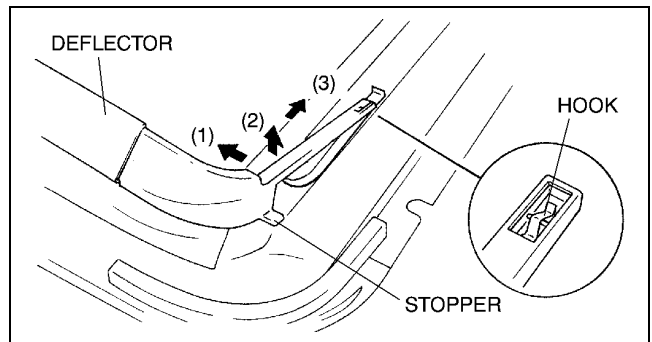
1. Remove the deflector using a tape-wrapped screwdriver.



X3U915WA3

5HB

1. Fully open the glass panel.
2. Push the deflector inside (1) and pull it up (2) to release the stopper.
3. Slide the deflector to disengage from the hook. (3)
4. Remove the deflector.
5. Install in the reverse order of removal.



A3U0915W001

GLASS PANEL ADJUSTMENT

A3U091569810W01

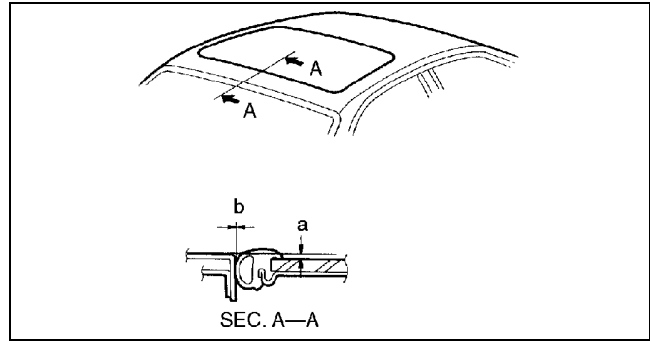
1. Fully close the glass panel.
2. Measure the gap and height between the glass panel and body.
 - If not as specified, loosen the glass panel installation screws and reposition the glass panel.

Clearance

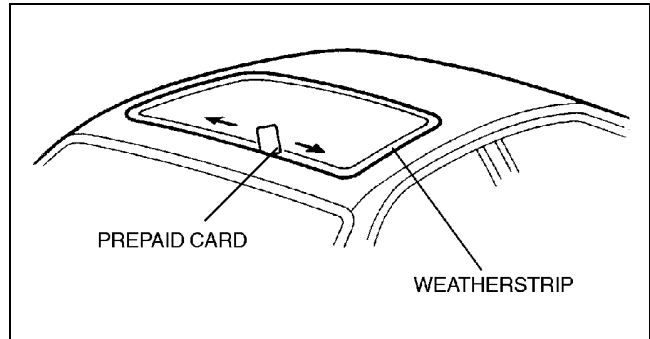
- a: 0.2—2.2 mm {0.008—0.086 in}**
b: 0 mm {0 in}

3. Tighten the installation screws.

4. Insert a prepaid card between the weatherstrip and the body of the vehicle. Verify that the sunroof is shut tightly (there is resistance when the prepaid card is moved).
 - If the sunroof is not shut tightly, readjust by performing Steps 3 and 4.



X3U915WA6

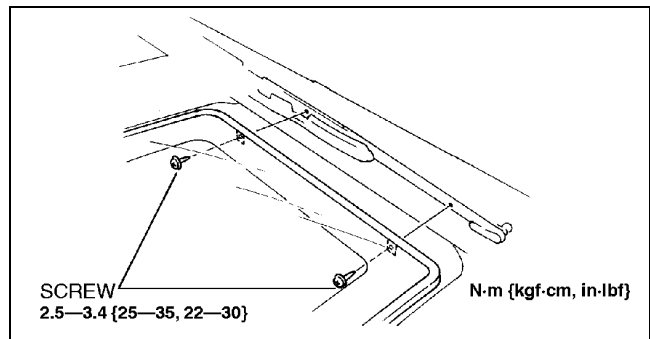


X3U915WA7

GLASS PANEL REMOVAL/INSTALLATION

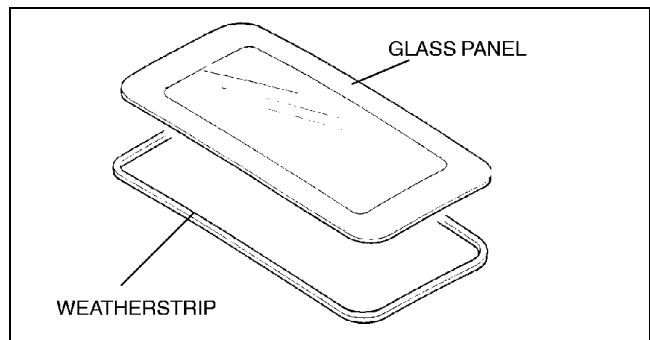
A3U091569810W02

1. Fully close the glass panel.
2. Fully open the sunshade.
3. Remove the screws, and then remove the glass panel.



X3U915WA4

4. Peel the weatherstrip off the glass panel.
5. Install in the reverse order of removal.
6. Adjust the glass panel. (See 09-15-3 GLASS PANEL ADJUSTMENT.)



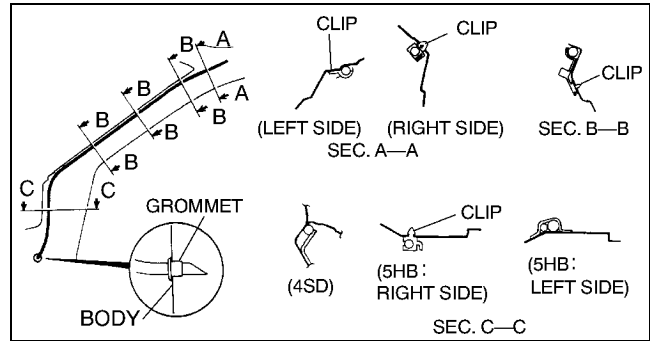
X3U915WA5

SUNROOF

FRONT DRAIN HOSE REMOVAL

A3U091569920W01

1. Remove the headliner. (See 09–17–16 HEADLINER REMOVAL/INSTALLATION.)
2. Disconnect the front drain hose from the sunroof frame.
3. Remove the front drain hose from the clips.
4. Pull the front drain hose into the room side.
5. Remove the front drain hose.



A3U0915W022

FRONT DRAIN HOSE INSTALLATION

A3U091569920W02

Caution

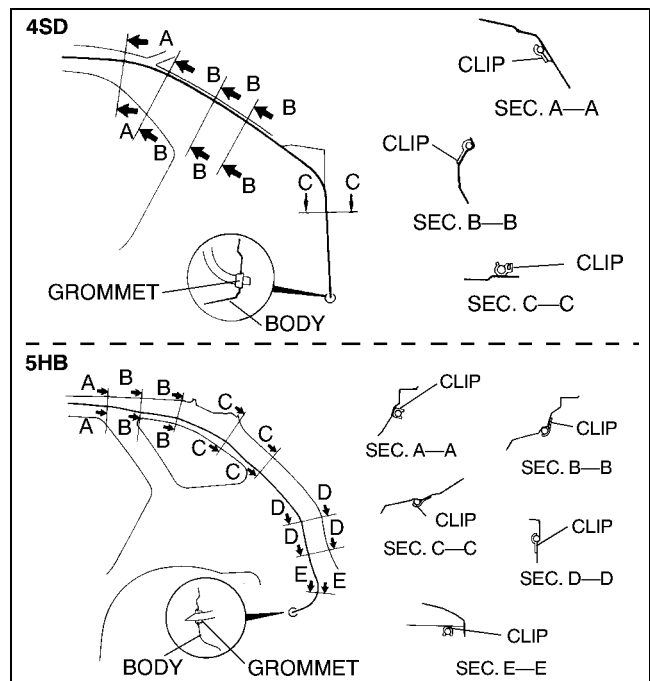
- If the front drain hose is pinched or bent anywhere, the water in the hose may not discharge and enter the inside of the vehicle. During and after installation of the trims and the headliner, always make sure there is no interference with the front drain hose. Fix any problem if found.

1. Apply soapy water to the front drain hose inserting area.
2. Insert one end of the front drain hose into the sunroof frame.
3. Install the front drain hose to the clips parallel to the pillar and free of slack.
4. Insert the front drain hose joint into the hinge pillar inner hole.
5. Install the headliner. (See 09–17–16 HEADLINER REMOVAL/INSTALLATION.)

REAR DRAIN HOSE REMOVAL

A3U091569922W01

1. Remove the headliner. (See 09–17–16 HEADLINER REMOVAL/INSTALLATION.)
2. For 4SD, remove the trunk side trim.
3. Disconnect the rear drain hose from the sunroof frame.
4. Remove the rear drain hose from the clips.
5. Pull the rear drain hose into the room side.
6. Remove the rear drain hose.



A3U0915W002

REAR DRAIN HOSE INSTALLATION

A3U091569922W02

Caution

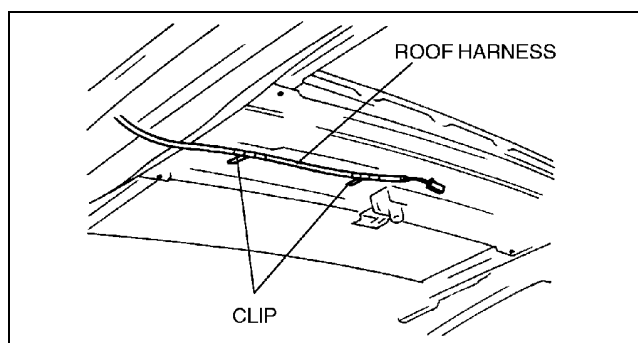
- If the rear drain hose is pinched or bent anywhere, the water in the hose may not discharge and enter the inside of the vehicle. During and after installation of the trims and the headliner, always make sure there is no interference with the rear drain hose. Fix any problem if found.

1. Apply soapy water to the rear drain hose inserting area.
2. Insert one end of the rear drain hose into the sunroof frame.
3. Install the rear drain hose to the clips parallel to the pillar and free of slack.
4. Insert the rear drain hose joint into the rear pillar inner hole.
5. Install the trunk side trim. (See 09-17-15 TRUNK SIDE TRIM REMOVAL/INSTALLATION.)
6. Install the headliner. (See 09-17-16 HEADLINER REMOVAL/INSTALLATION.)

SUNROOF UNIT REMOVAL/INSTALLATION

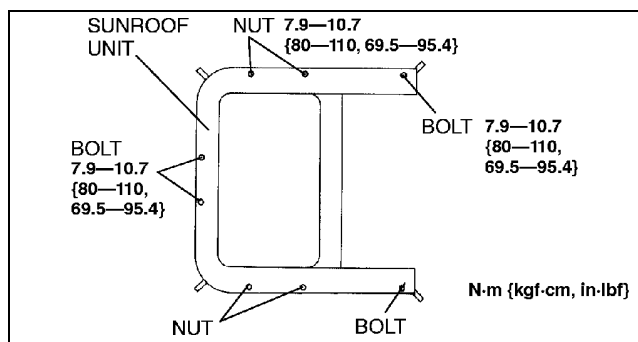
A3U091569850W01

1. Disconnect the negative battery cable.
2. Remove the headliner. (See 09-17-16 HEADLINER REMOVAL/INSTALLATION.)
3. Remove the glass panel.
4. Disconnect the front and rear drain hoses from the sunroof frame.
5. Remove the roof harness from the sunroof frame.



X3U915WAA

6. Remove the bolts and nuts, and then remove the sunroof unit.
7. Install in the reverse order of removal.
8. Adjust the glass panel. (See 09-15-3 GLASS PANEL ADJUSTMENT.)



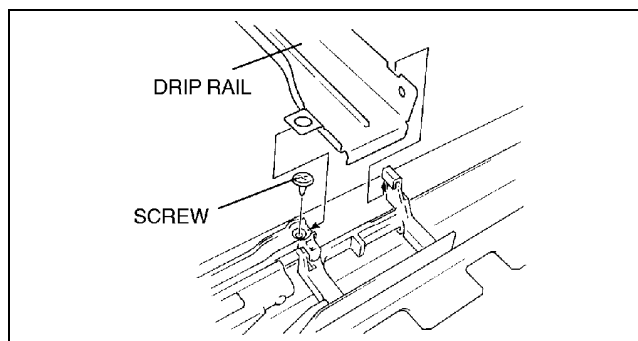
X3U915WAB

SUNROOF UNIT DISASSEMBLY

A3U091569850W02

4SD

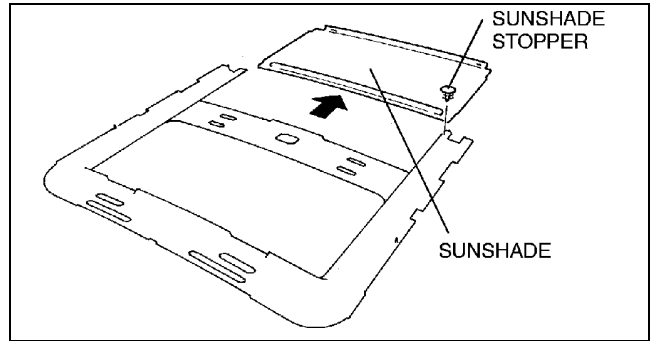
1. Remove the screws, and then remove the drip rail.



X3U915WAC

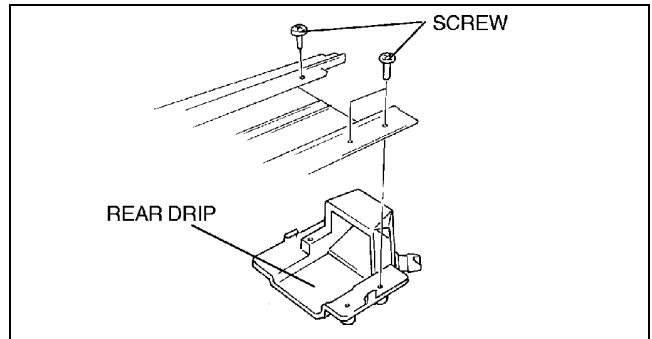
SUNROOF

2. Remove the sunshade stopper.
3. Slide the sunshade backward, and remove it from the sunroof frame.



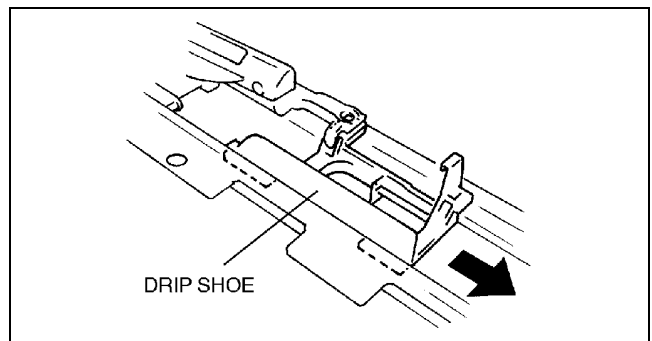
X3U915WAD

4. Remove the screws, and then remove the rear drip.



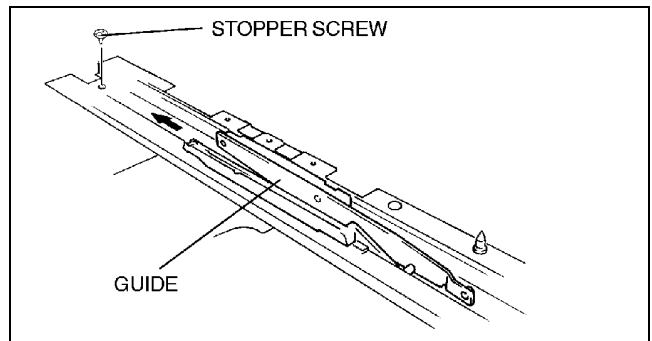
X3U915WAE

5. Slide the drip shoe backward, and remove it from the sunroof frame.
6. Remove the sunroof motor.



X3U915WAF

7. Remove the stopper screw.
8. Slide the guide backward, and remove it from the sunroof frame.
9. Remove the deflector.

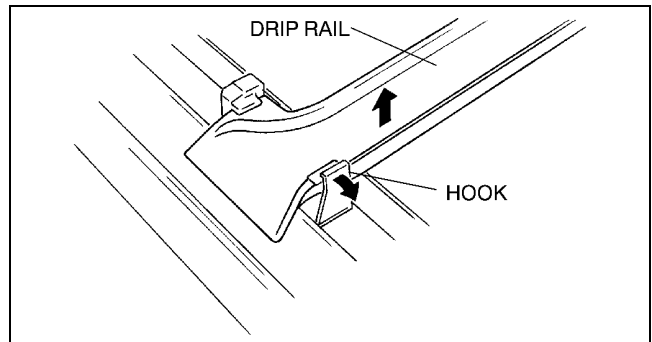


X3U915WAG

SUNROOF

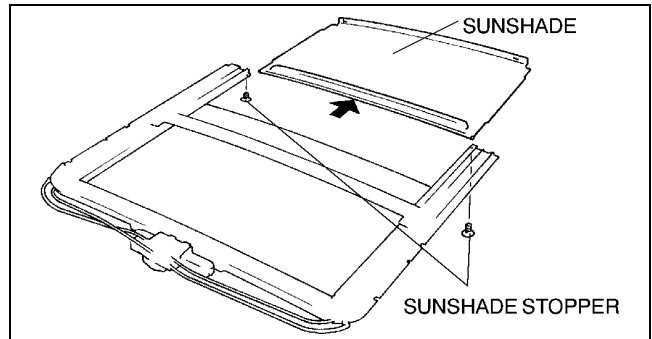
5HB

1. Bend the hook of the decoration link backward to remove the drip rail.



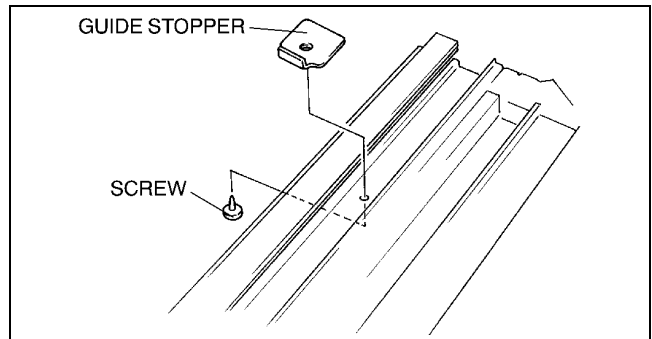
A3U0915W003

2. Remove the sunshade stopper.
3. Slide the sunshade backward, and remove it from the sunroof frame.



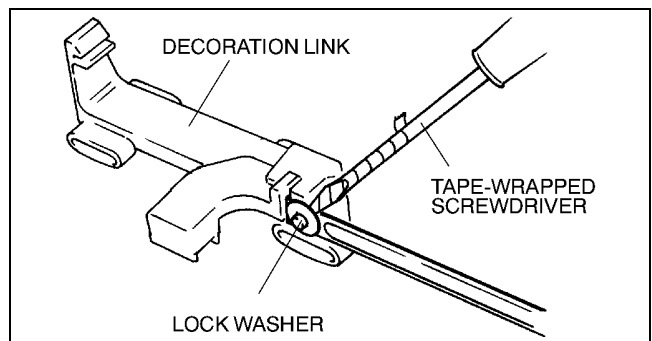
A3U0915W004

4. Remove the screw, and then remove the guide stopper.



A3U0915W005

5. Remove the lock washer using a tape-wrapped screwdriver.
6. Slide the decoration link backward, and remove it from the sunroof frame.
7. Remove the sunroof motor.

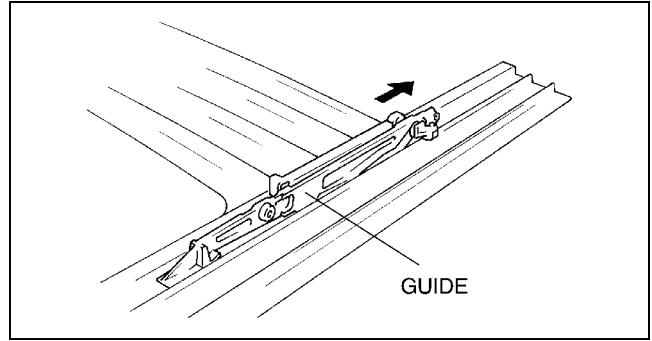


A3U0915W006

09-15

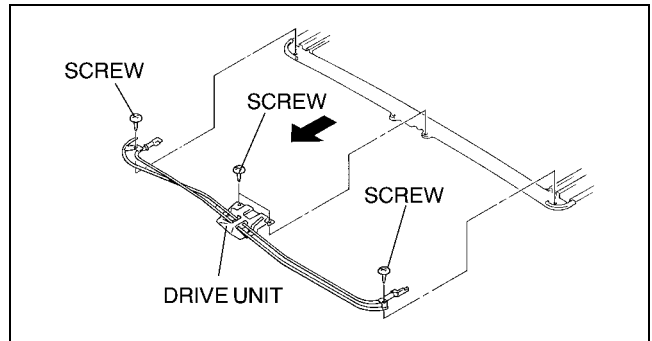
SUNROOF

- Slide the guide backward, and remove it from the sunroof frame.



A3U0915W007

- Remove the screws.
- Slide the drive unit forward, and remove it from the sunroof frame.
- Remove the deflector.
- Remove the sunroof relay.

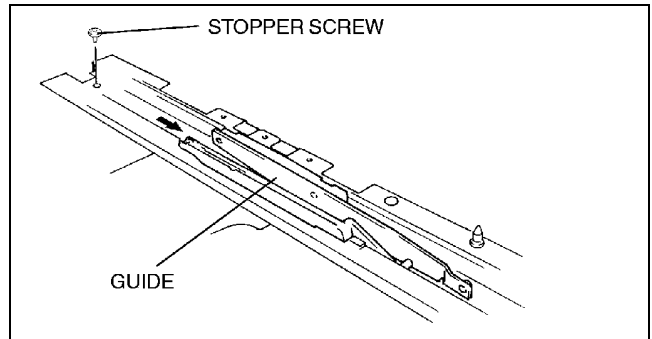


A3U0915W008

SUNROOF UNIT ASSEMBLY

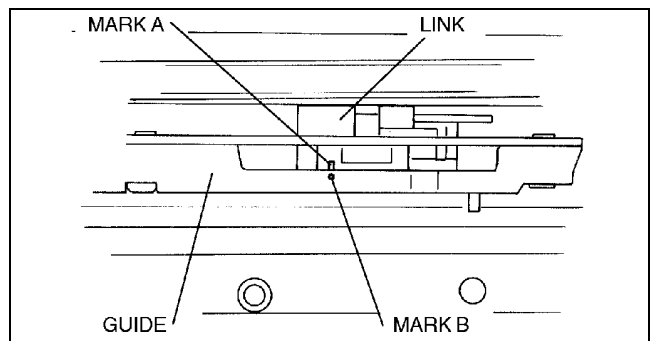
4SD

- Install the deflector.
- Slide the guide forward, and install it to the sunroof frame.
- Install the stopper screw.
- Move the guide by hand until it is tilted up position.



X3U915WAH

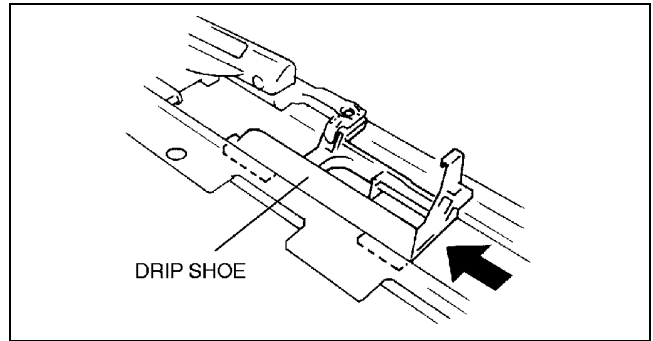
- Move the link built into the guide by hand until it is aligned with mark A and mark B.
- Install the sunroof motor.



X3U915WAJ

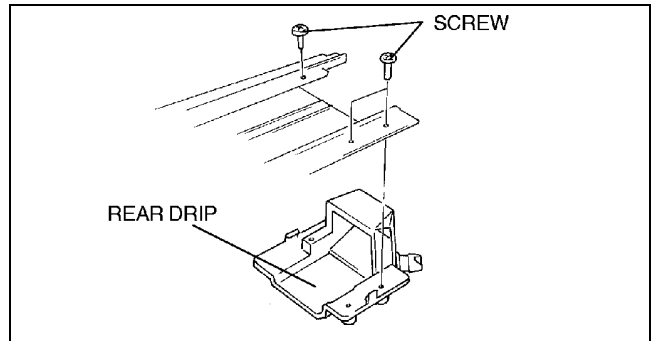
SUNROOF

- Slide the drip shoe forward, and install it to the sunroof frame.
- Use IPA (Isopropyl alcohol) to remove any excess repair sealant.



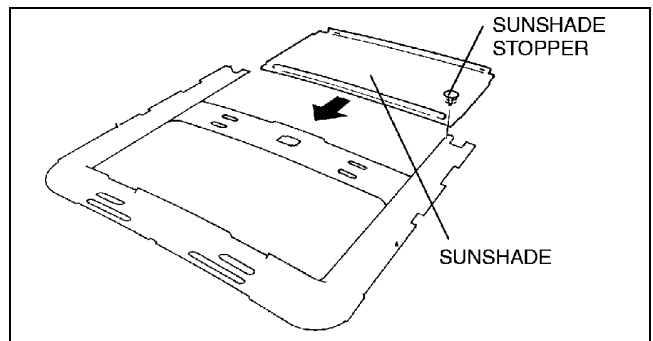
X3U915WAK

- Install the screws, and then install the rear drip.



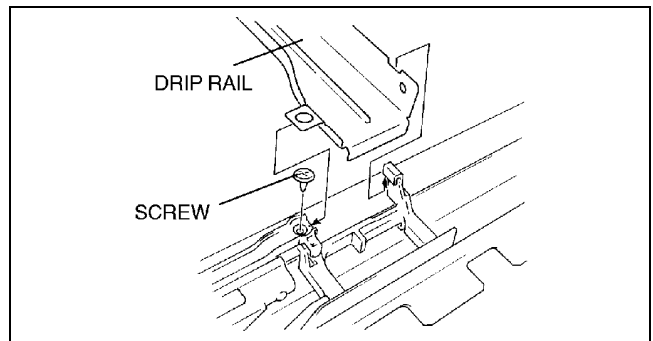
X3U915WAL

- Slide the sunshade forward, and install it to the sunroof frame.
- Install the sunshade stopper.



X3U915WAM

- Install the screws, and then install the drip rail.



X3U915WAN

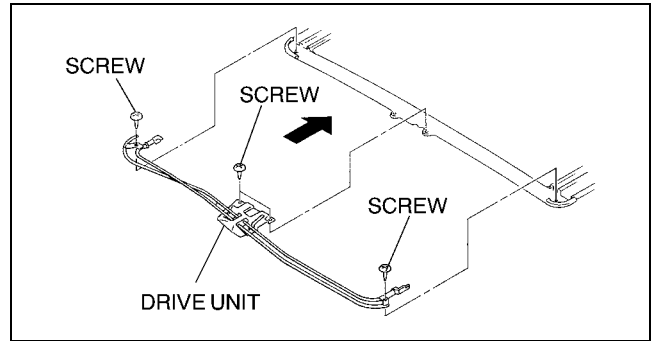
5HB

- Install the sunroof relay.
- Install the deflector.
- Slide the drive unit backward, and install it to the sunroof frame.

09-15

SUNROOF

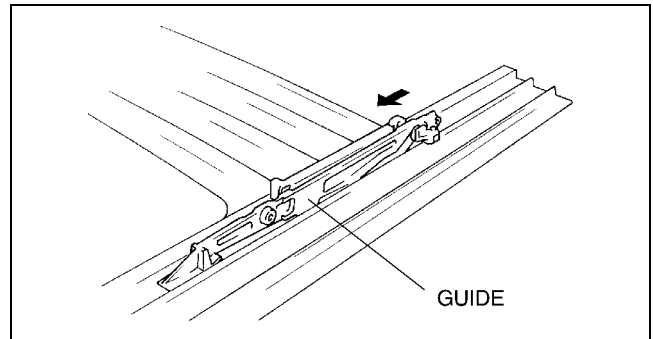
4. Install the screws.



A3U0915W009

5. Slide the guide forward, and install it to the sunroof frame.

6. Move the guide by hand until it is in the tilted up position.

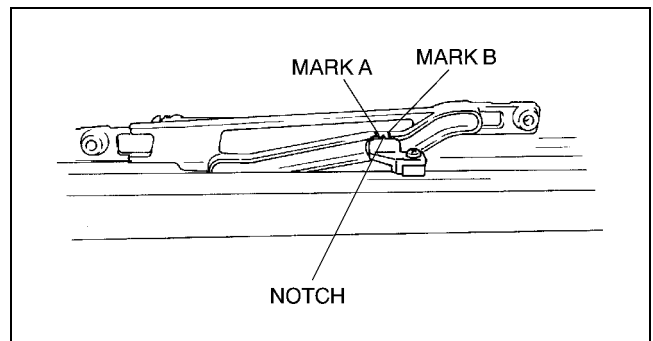


A3U0915W010

7. Move the guide by hand until notch comes between mark A and mark B.

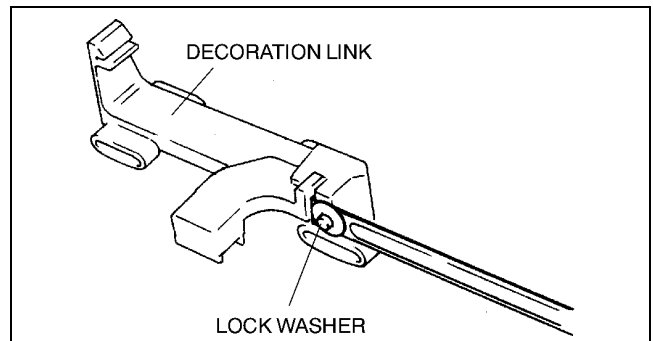
8. Install the sunroof motor.

9. Slide the decoration link forward, and install it to the sunroof frame.



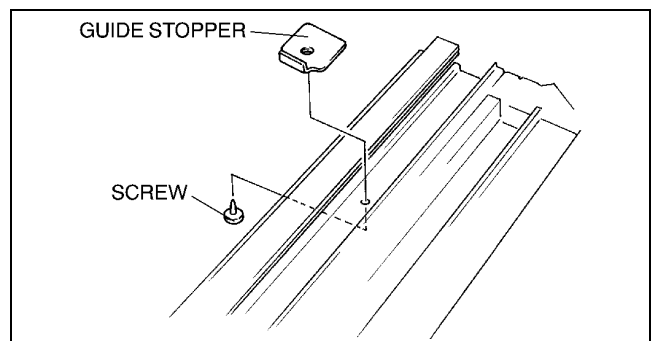
A3U0915W011

10. Install the lock washer.



A3U0915W012

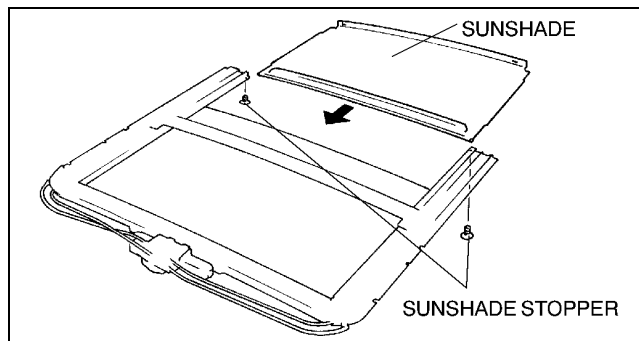
11. Install the screw, and then install the guide stopper.



A3U0915W005

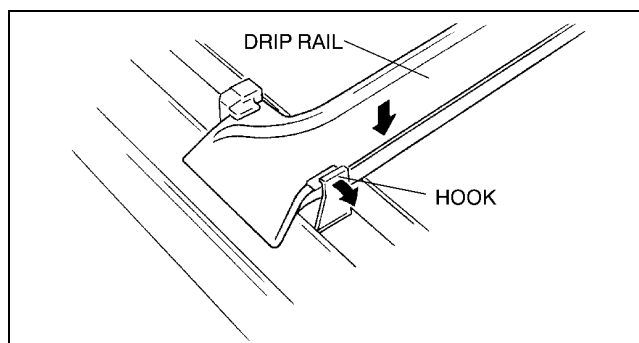
SUNROOF

- Slide the sunshade forward, and install it to the sunroof frame.
- Install the sunshade stopper.



A3U0915W013

- Bend the hook of the decoration link backward to install the drip rail.



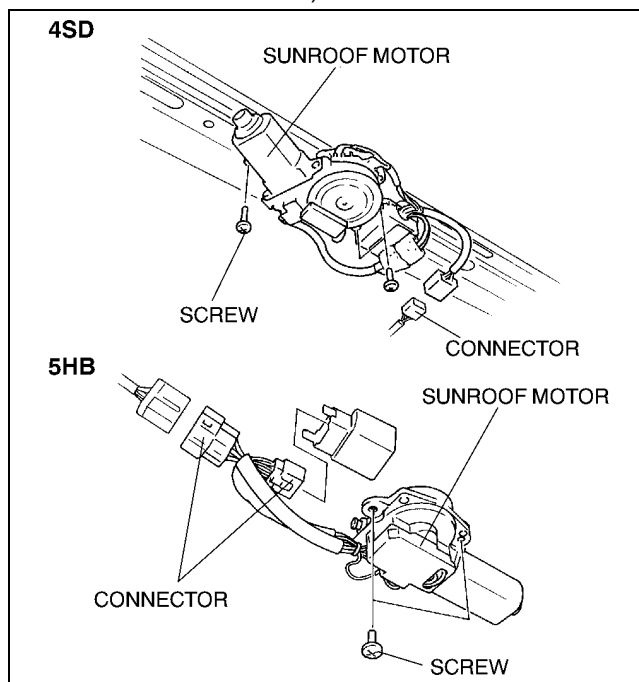
A3U0915W014

SUNROOF MOTOR REMOVAL

- Disconnect the negative battery cable.
- Remove the headliner. (See 09-17-16 HEADLINER REMOVAL/INSTALLATION.)
- Disconnect the connector.
- Remove the screws, and then remove the sunroof motor.

A3U091569870W01

09-15



A3U0915W015

SUNROOF MOTOR INSTALLATION

- Connect the sunroof motor connector.
- Connect the sunroof switch connector.
- Connect the negative battery cable.
- Turn the ignition switch to ON position.
- Press the CLOSE side of the slide switch until the sunroof motor stops.
- Disconnect the sunroof switch connector.
- Install the screws, and then install the sunroof motor.
- Install the headliner. (See 09-17-16 HEADLINER REMOVAL/INSTALLATION.)

A3U091569870W02

SUNROOF MOTOR INSPECTION

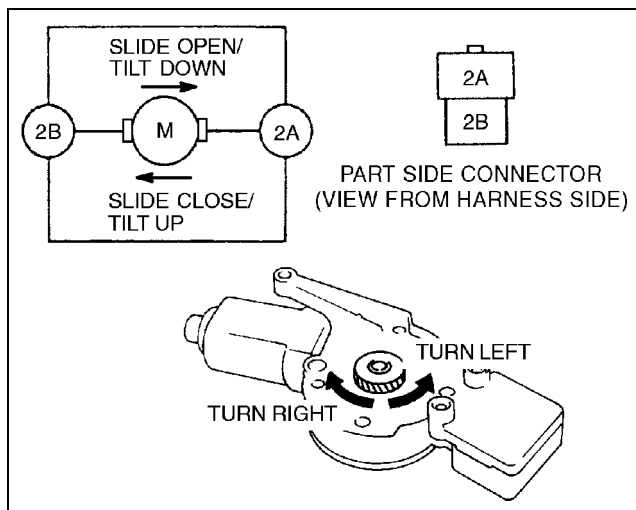
A3U091569870W03

4SD

Motor

1. Remove the sunroof motor.
2. Apply battery positive voltage to the sunroof motor terminals and inspect the operation of the sunroof motor.
 - If not as specified, replace the sunroof motor.

Connection		Motor operation
2A	2B	
B+	GND	Turn left (Slide close/Tilt up)
GND	B+	Turn right (Slide open/Tilt down)



A3U0915W025

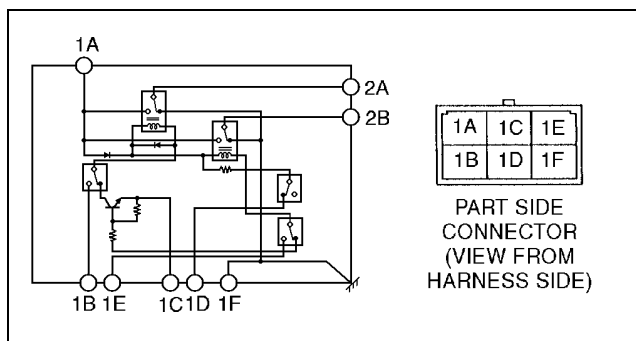
Limit Switch

1. Remove the headliner. (See 09-17-16 HEADLINER REMOVAL/INSTALLATION.)
2. Verify the glass panel position.
3. Disconnect the connector.
4. Inspect for continuity between the sunroof motor terminals using an ohmmeter.
 - If not as specified, replace the sunroof motor.

○—○ : Continuity

Glass panel position	Terminal						
	1A	1B	1C	1D	1E	1F	GND
Fully open	○—○		○—○				○—○
Fully closed	○—○	○—○			○—○		○—○
Fully tilt up	○—○			○—○			○—○

X3U915WAR



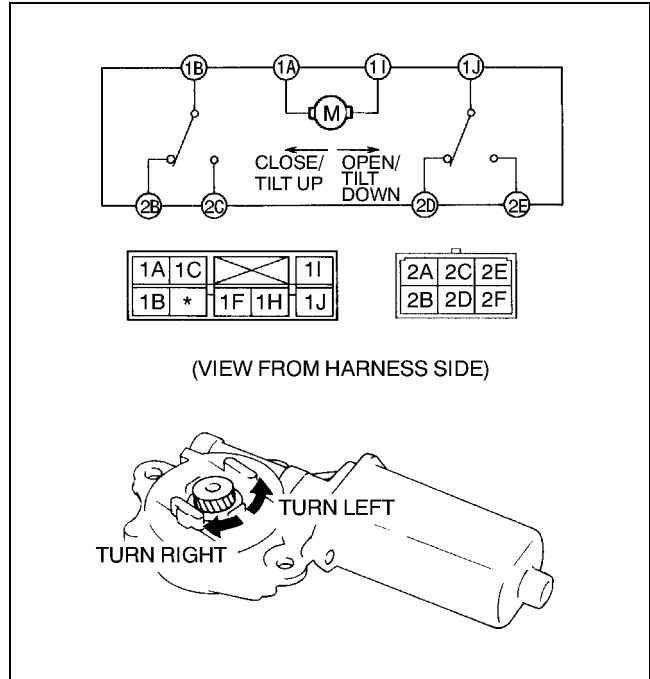
Y3U915WA1

5HB

Motor

1. Remove the sunroof motor.
2. Apply battery positive voltage to the sunroof motor terminals and inspect the operation of the sunroof motor.
 - If not as specified, replace the sunroof motor.

Connection		Motor operation
1A	1I	
B+	GND	Turn right (Slide open/Tilt down)
GND	B+	Turn left (Slide close/Tilt up)



A3U0915W017

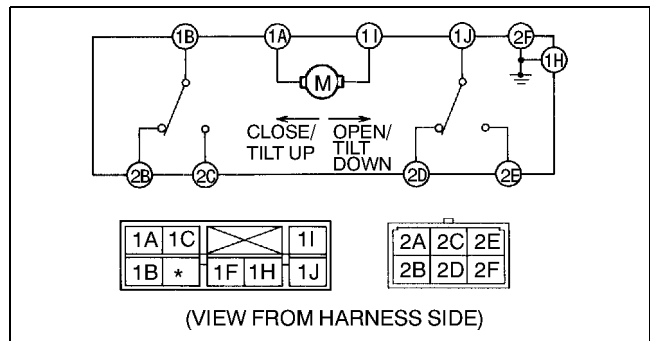
Limit Switch

1. Remove the headliner. (See 09-17-16 HEADLINER REMOVAL/INSTALLATION.)
2. Verify the glass panel position.
3. Disconnect the connector.
4. Inspect for continuity between the sunroof motor terminals using an ohmmeter.
 - If not as specified, replace the sunroof motor.

○—○ : Continuity

Glass panel position	Terminal								
	2B	2C	2D	2E	1B	1J	2F	1H	Body GND
Fully open		○	○	○	○	○	○	○	○
Fully closed	○		○	○	○	○	○	○	○
Fully tilted up	○			○	○	○	○	○	○

A3U0915W018



A3U0915W019

SUNROOF

SUNROOF RELAY REMOVAL/INSTALLATION

A3U091569873W01

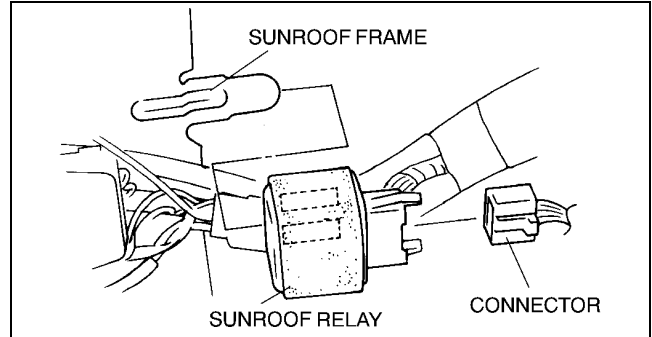
4SD

Note

- Sunroof relay is built in the sunroof motor.

5HB

1. Disconnect the negative battery cable.
2. Remove the headliner. (See 09-17-16 HEADLINER REMOVAL/INSTALLATION.)
3. Pull the sunroof relay from the sunroof frame.
4. Disconnect the connector, and remove the sunroof relay.
5. Install in the reverse order of removal.

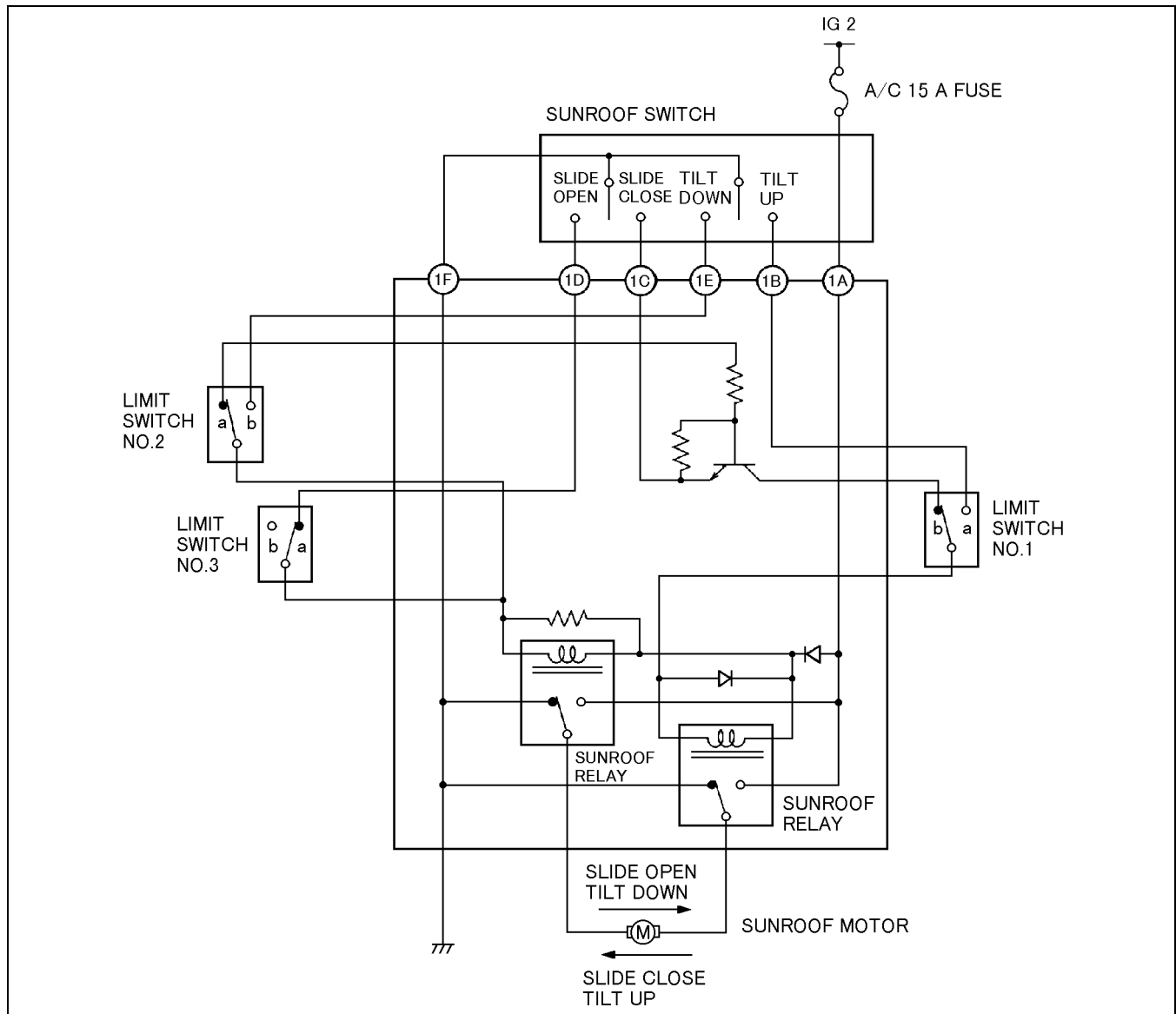


A3U0915W020

SLIDING SUNROOF SYSTEM WIRING DIAGRAM

A3U091501049W02

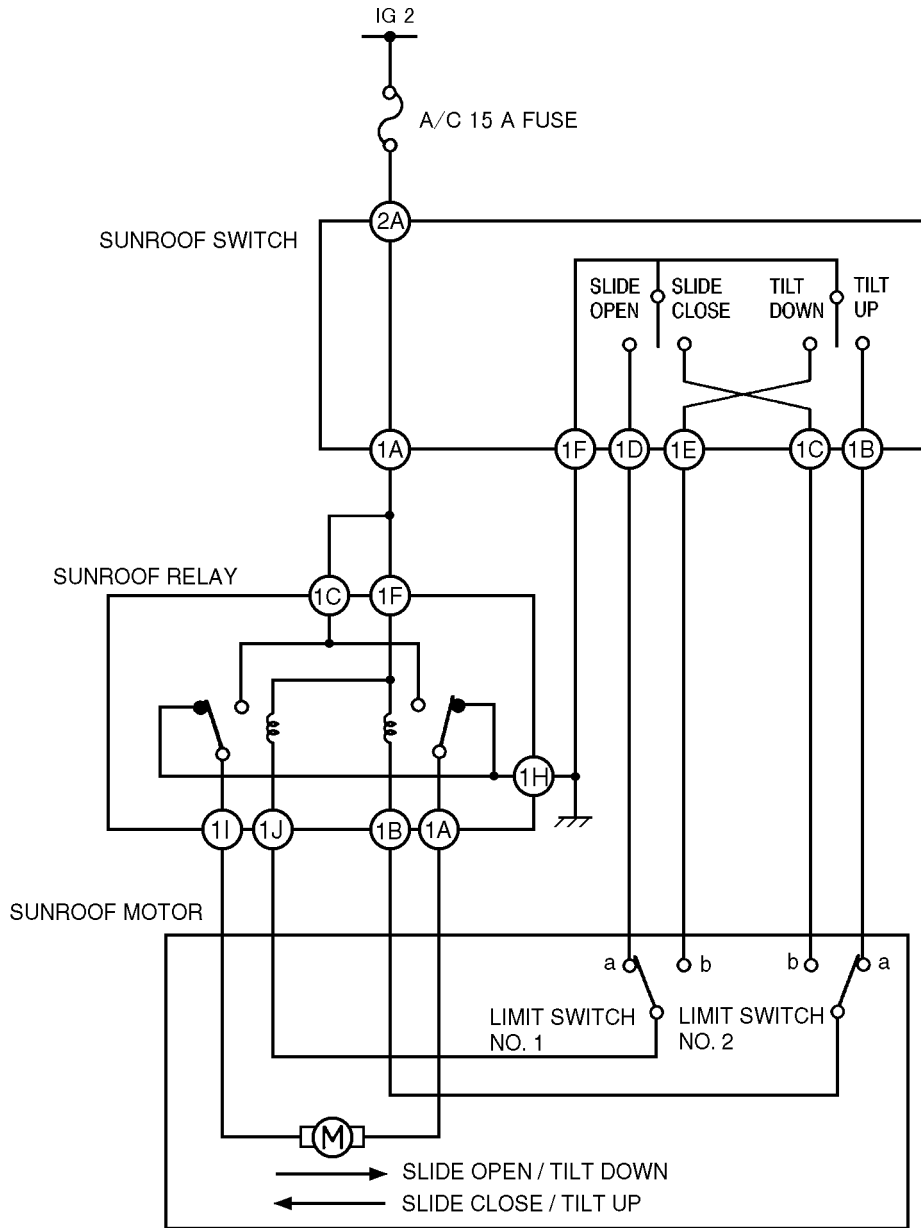
4SD



A3U0915W027

SUNROOF

5HB



09-15

A3U0915W026

SUNROOF

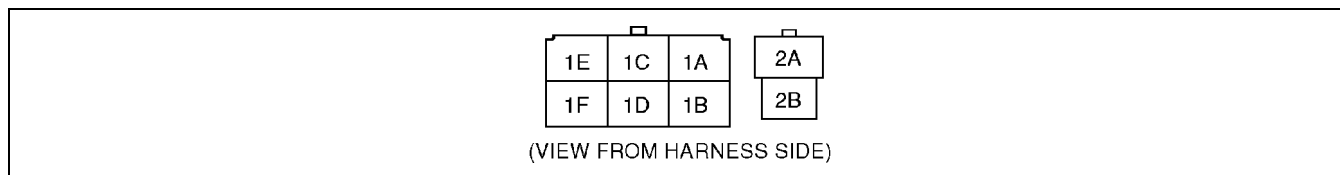
SUNROOF RELAY INSPECTION

A3U091569873W02

4SD

1. Remove the headliner. (See 09–17–16 HEADLINER REMOVAL/INSTALLATION.)
2. Connect the sunroof switch connector.
3. Connect the negative battery cable.
4. Measure the voltage at the sunroof relay terminals as indicated below.
5. Disconnect the sunroof relay connector before inspecting for continuity at terminal 1F.
 - If not as specified, inspect the parts listed under “Action” and the related wiring harnesses.
 - If the parts and wiring harnesses are okay but the system still does not work properly, replace the sunroof relay.

Terminal voltage list (Reference)



A3U0915W023

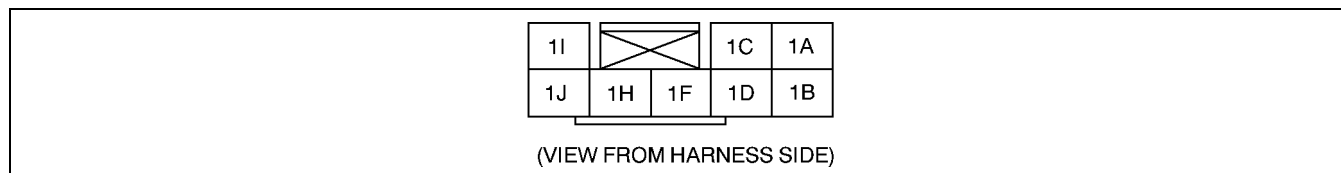
Terminal	Signal	Connected to	Test condition	Voltage (V)/ Continuity	Action
1A	IG2	Sunroof motor	IG SW is at ON position.	B+	<ul style="list-style-type: none"> • Inspect A/C 15 A fuse • Inspect sunroof switch (See 09–15–18 SUNROOF SWITCH INSPECTION) • Inspect related harness
			Other	0	
1B	Tilt up	Sunroof switch	Sunroof is tilting up. (Including position when fully closed)	B+	<ul style="list-style-type: none"> • Inspect sunroof switch (See 09–15–18 SUNROOF SWITCH INSPECTION) • Inspect related harness
			Other	0	
1C	Slide close	Sunroof switch	Sunroof is closing. (Including position when fully closed and open)	B+	<ul style="list-style-type: none"> • Inspect sunroof switch (See 09–15–18 SUNROOF SWITCH INSPECTION) • Inspect related harness
			Other	0	
1D	Slide open	Sunroof switch	Sunroof is fully opening.	0	<ul style="list-style-type: none"> • Inspect sunroof switch (See 09–15–18 SUNROOF SWITCH INSPECTION) • Inspect related harness
			Other	B+	
1E	Tilt down	Sunroof switch	Sunroof is tilting down. (Not including position when fully closed)	B+	<ul style="list-style-type: none"> • Inspect sunroof switch (See 09–15–18 SUNROOF SWITCH INSPECTION) • Inspect related harness
			Other	0	
1F	Sunroof relay ground	GND	Under any condition: inspect for continuity to ground.	Yes	<ul style="list-style-type: none"> • Inspect related harness
2A	Slide close/ tilt up	Sunroof motor	Sunroof is opening/tilting down.	0	<ul style="list-style-type: none"> • Inspect sunroof switch (See 09–15–18 SUNROOF SWITCH INSPECTION) • Inspect sunroof motor (See 09–15–12 SUNROOF MOTOR INSPECTION) • Inspect related harness
			Sunroof is closing/tilting up.	B+	
			Other	0	
2B	Slide open/ tilt down	Sunroof motor	Sunroof is opening/tilting down.	B+	<ul style="list-style-type: none"> • Inspect sunroof switch (See 09–15–18 SUNROOF SWITCH INSPECTION) • Inspect sunroof motor (See 09–15–12 SUNROOF MOTOR INSPECTION) • Inspect related harness
			Sunroof is closing/tilting up.	0	
			Other	0	

SUNROOF

5HB

1. Remove the headliner. (See 09–17–16 HEADLINER REMOVAL/INSTALLATION.)
2. Connect the sunroof switch connector.
3. Connect the negative battery cable.
4. Measure the voltage at the sunroof relay terminals as indicated below.
5. Disconnect the sunroof relay connector before inspecting for continuity at terminal H.
 - If not as specified, inspect the parts listed under “Action” and the related wiring harnesses.
 - If the parts and wiring harnesses are okay but the system still does not work properly, replace the sunroof relay.

Terminal voltage list (Reference)



A3U0915W021

Terminal	Signal	Connected to	Test condition	Voltage (V)/Continuity	Action
1A	Slide close/ tilt up	Sunroof motor	Sunroof is opening/tilting down.	0	<ul style="list-style-type: none"> • Inspect sunroof switch (See 09–15–18 SUNROOF SWITCH INSPECTION) • Inspect sunroof motor (See 09–15–12 SUNROOF MOTOR INSPECTION) • Inspect related harness
			Sunroof is closing/tilting up.	B+	
			Other	0	
1B	Slide close/ tilt up	Sunroof motor (Limit switch)	Sunroof is closing/tilting up.	0	<ul style="list-style-type: none"> • Inspect sunroof switch (See 09–15–18 SUNROOF SWITCH INSPECTION) • Inspect sunroof motor (Limit switch) (See 09–15–12 SUNROOF MOTOR INSPECTION) • Inspect related harness
			Other	B+	
1C	IG2	Sunroof switch	IG SW is at ON position.	B+	<ul style="list-style-type: none"> • Inspect A/C 15 A fuse • Inspect sunroof switch (See 09–15–18 SUNROOF SWITCH INSPECTION) • Inspect related harness
			Other	0	
1D	-	Not used	-	-	-
1F	IG2	Sunroof switch	IG SW is at ON position.	B+	<ul style="list-style-type: none"> • Inspect A/C 15 A fuse • Inspect sunroof switch (See 09–15–18 SUNROOF SWITCH INSPECTION) • Inspect related harness
			Other	0	
1H	Sunroof relay ground	GND	Under any condition: inspect for continuity to ground.	Yes	<ul style="list-style-type: none"> • Inspect related harness
1I	Slide open/ tilt down	Sunroof motor	Sunroof is opening/tilting down.	B+	<ul style="list-style-type: none"> • Inspect sunroof switch (See 09–15–18 SUNROOF SWITCH INSPECTION) • Inspect sunroof motor (See 09–15–12 SUNROOF MOTOR INSPECTION) • Inspect related harness
			Sunroof is closing/tilting up.	0	
			Other	0	
1J	Slide open/ tilt down	Sunroof motor (Limit switch)	Sunroof is opening/tilting down.	0	<ul style="list-style-type: none"> • Inspect sunroof switch (See 09–15–18 SUNROOF SWITCH INSPECTION) • Inspect sunroof motor (Limit switch) (See 09–15–12 SUNROOF MOTOR INSPECTION) • Inspect related harness
			Other	B+	

SUNROOF

SUNROOF SWITCH REMOVAL/INSTALLATION

A3U091566560W01

Note

- The sunroof switch is together with the spot light.

- Disconnect the negative battery cable.
- Remove the spot light from the headliner. (See 09-18-21 MAP LIGHT REMOVAL/INSTALLATION.)
- Install in the reverse order of removal.

SUNROOF SWITCH INSPECTION

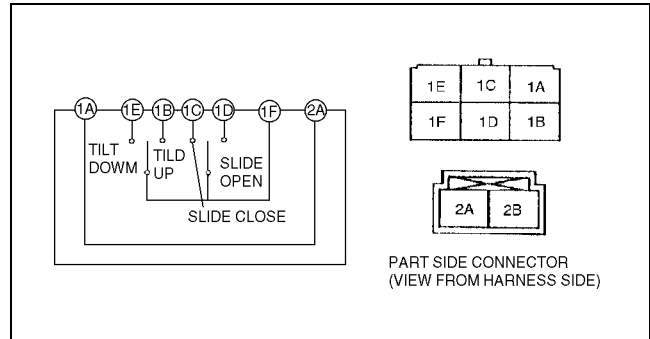
A3U091566560W02

- Remove the sunroof switch. (See 09-18-21 MAP LIGHT REMOVAL/INSTALLATION.)
- Inspect for continuity between the sunroof switch terminals using an ohmmeter.
 - If not as specified, replace the sunroof switch.

○—○ : Continuity

Switch position	Terminal						
	1B	1C	1D	1E	1F	1A	2A
Slide open			○	—	○	○	○
Slide close		○	—	—	○	○	○
Tilt up	○	—	—	—	○	○	○
Tilt down				○	○	○	○
Off						○	○

X3U915WAU



Z3U0915W001

09-16 EXTERIOR TRIM

COWL GRILLE
 REMOVAL/INSTALLATION 09-16-1

EXTRACTOR CHAMBER
 REMOVAL/INSTALLATION 09-16-1
 4SD 09-16-1
 5HB 09-16-2

FRONT FLAP
 REMOVAL/INSTALLATION 09-16-2

REAR FLAP
 REMOVAL/INSTALLATION 09-16-2

RADIATOR
 GRILLE REMOVAL/INSTALLATION .. 09-16-2

REAR FINISHER
 REMOVAL/INSTALLATION 09-16-3

LIFTGATE GARNISH
 REMOVAL/INSTALLATION 09-16-3

SIDE PROTECTOR REMOVAL 09-16-3

SIDE PROTECTOR INSTALLATION ... 09-16-4

SIDE PROTECTOR INSTALLATION ... 09-16-4

SIDE STEP MOLDING
 REMOVAL/INSTALLATION 09-16-4

ROOF RACK
 REMOVAL/INSTALLATION 09-16-4

ROOF RACK
 DISASSEMBLY/ASSEMBLY 09-16-5

ROOF CARRIER
 REMOVAL/INSTALLATION 09-16-5
 Front 09-16-5
 Rear 09-16-6

FRONT BELTLINE MOLDING
 REMOVAL/INSTALLATION 09-16-7

REAR BELTLINE MOLDING
 REMOVAL/INSTALLATION 09-16-7

REAR WINDOW GLASS
 MOLDING REMOVAL 09-16-7

EAR WINDOW GLASS
 MOLDING INSTALLATION 09-16-7

WINDSHIELD MOLDING REMOVAL ... 09-16-8

WINDSHIELD MOLDING
 INSTALLATION 09-16-8

ROOF MOLDING
 REMOVAL/INSTALLATION 09-16-8

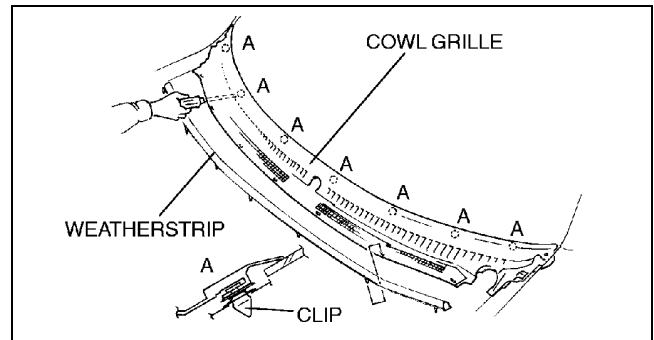
REAR SPOILER
 REMOVAL/INSTALLATION 09-16-8
 4SD 09-16-8
 5HB 09-16-9

COWL GRILLE REMOVAL/INSTALLATION

09-16

1. Remove the windshield wiper arm and blade. (See 09-19-5 WINDSHIELD WIPER ARM AND BLADE REMOVAL/INSTALLATION.)
2. Remove the weatherstrip.
3. Disengage the clips of the cowl grille using a fastener remover, then remove the cowl grille.
4. Install in the reverse order of removal.

A3U091650790W01



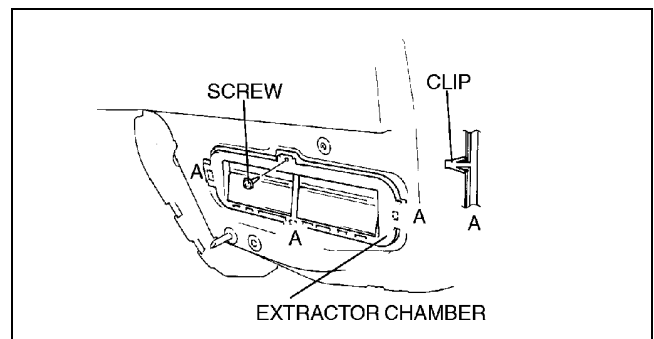
X3U916WA0

EXTRACTOR CHAMBER REMOVAL/INSTALLATION

4SD

1. Remove the rear bumper.
2. Remove the passenger-side trunk side trim.
3. Remove the screw.
4. Squeeze the clips with your fingers and remove the extractor chamber from the vehicle side.
5. Install in the reverse order of removal.

A3U091651920W01

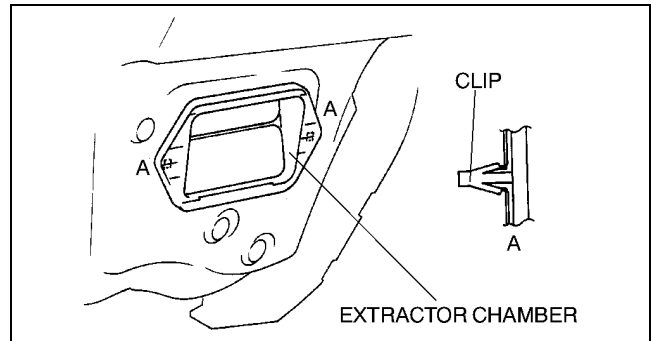


X3U916WA1

EXTERIOR TRIM

5HB

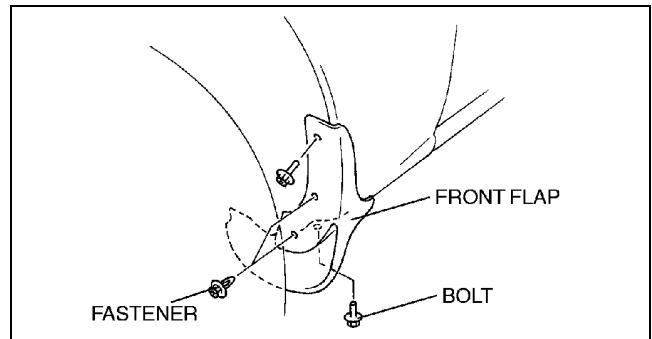
1. Remove the rear bumper.
2. Squeeze the clips with your fingers and remove the extractor chamber from the vehicle side.
3. Install in the reverse order of removal.



A3U0916W001

FRONT FLAP REMOVAL/INSTALLATION

1. Remove the bolts and fasteners.
2. Remove the front flap.
3. Install in the reverse order of removal.

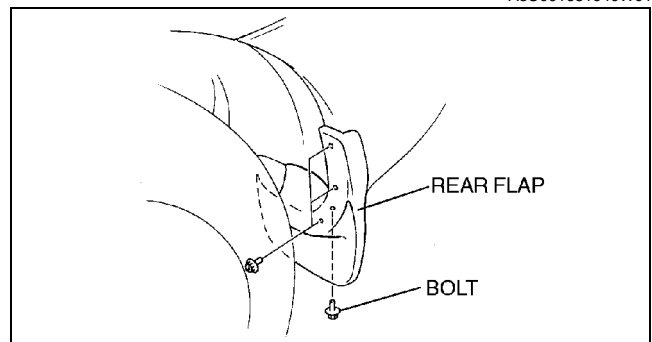


A3U091651840W01

X3U916WA2

REAR FLAP REMOVAL/INSTALLATION

1. Remove the bolts.
2. Remove the rear flap.
3. Install in the reverse order of removal.

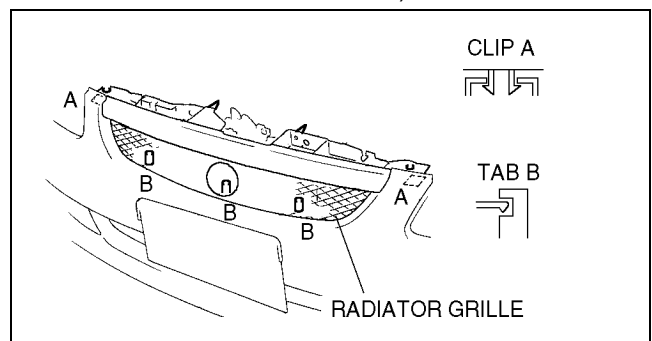


A3U091651940W01

X3U916WA3

RADIATOR GRILLE REMOVAL/INSTALLATION

1. Remove the front bumper. (See 09-10-5 FRONT BUMPER REMOVAL/INSTALLATION.)
2. Pull the radiator grille forward to disengage clips A and tabs B from the front bumper.
3. Install in the reverse order of removal.



A3U091650710W01

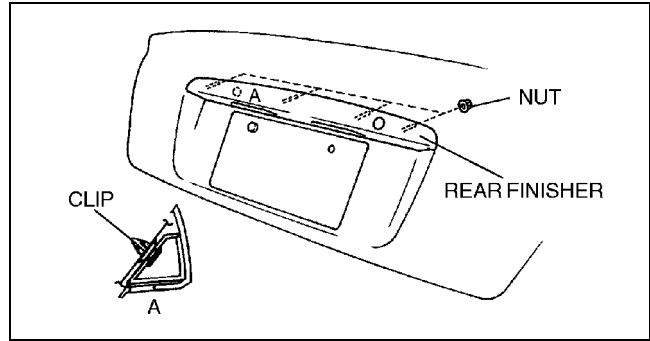
Y3E7728W001

EXTERIOR TRIM

REAR FINISHER REMOVAL/INSTALLATION

A3U091650810W01

1. Remove the nuts.
2. Pull the rear finisher toward you, then disengage clip A from the body.
3. Install in the reverse order of removal.

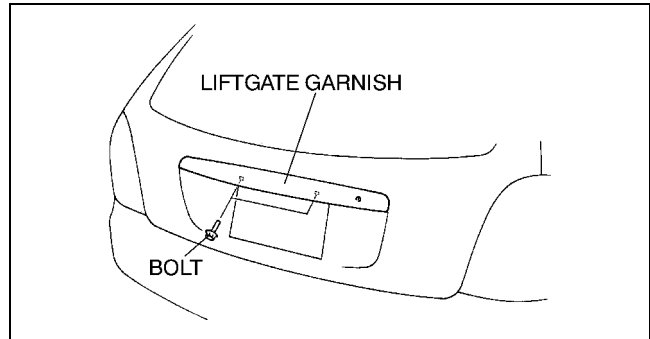


X3U916WA5

LIFTGATE GARNISH REMOVAL/INSTALLATION

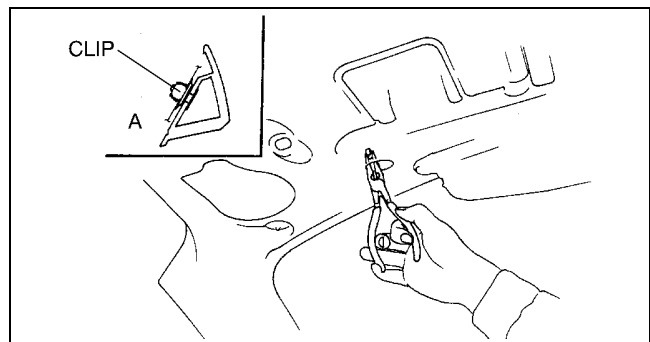
A3U091650810W02

1. Remove the liftgate key cylinder. (See 09–11–7 LIFTGATE REMOVAL/INSTALLATION.)
2. Remove the bolts.



A3U0916W004

3. Disengage clip A using pliers.
4. Pull the liftgate garnish downward, then remove it.
5. Install in the reverse order of removal.



A3U0916W005

SIDE PROTECTOR REMOVAL

A3U091650680W01

1. Pry the side protector end **20—30 mm {0.8—1.1 in}** using a flathead screwdriver or a razor.

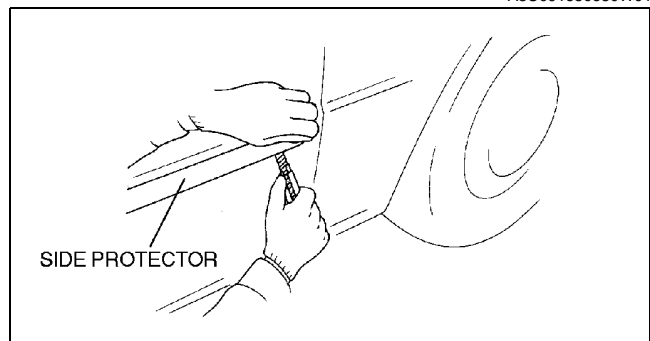
Warning

- Using a razor with bare hands can cause injury. Always wear gloves when using a razor.

2. Pull the side protector toward you, then remove it.

Note

- The side protector is installed with double-sided adhesive tape. If the side protector is difficult to remove, soften the double-sided adhesive tape using a hot air blower.



Y3U916WA1

EXTERIOR TRIM

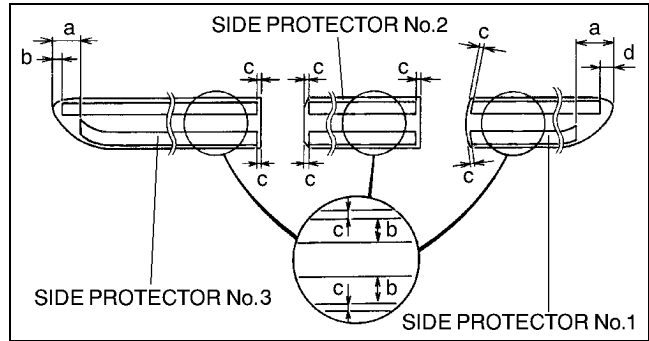
SIDE PROTECTOR INSTALLATION

A3U091650680W02

1. Remove the adhesive remaining on the side protector (if it will be reused) and the body using a razor.
2. Remove any grease or dirt from the adhesion surface of the side protector (if it will be reused) and the body.
3. Attach double-sided adhesive tape to the side protector as shown (if it will be reused).

Clearance

- a: 25.0 mm {0.98 in}
- b: 7.0 mm {0.28 in}
- c: 1.0—3.0 mm {0.04—0.11 in}
- d: 9.0 mm {0.35 in}

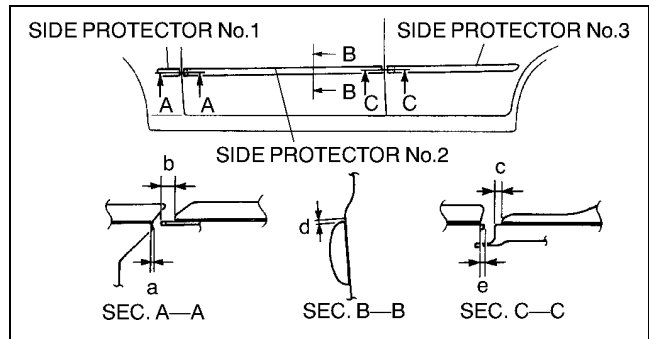


A3U0916W002

4. Peel off the backing from the double-sided adhesive tape and attach the side protector onto the body as shown.

Clearance

- a: 0.66—3.66 mm {0.03—0.14 in}
- b: 7.74 mm {0.30 in}
- c: 4.0—7.0 mm {0.16—0.27 in}
- d: 0.5—3.5 mm {0.02—0.13 in}
- e: 3.0—6.0 mm {0.12—0.23 in}

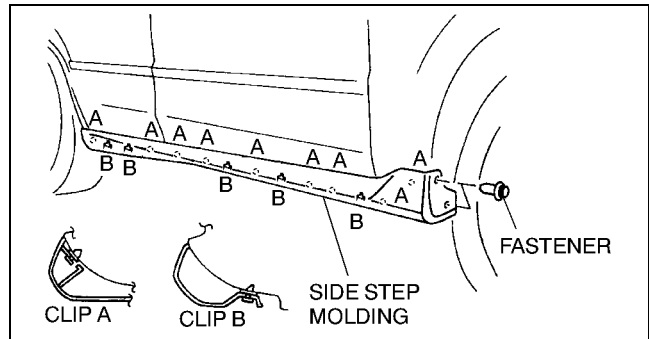


A3U0916W003

SIDE STEP MOLDING REMOVAL/INSTALLATION

A3U091651100W01

1. Remove the fasteners and clips B.
2. Disengage clips A from the vehicle front to remove the side step molding.
3. Install in the reverse order of removal.

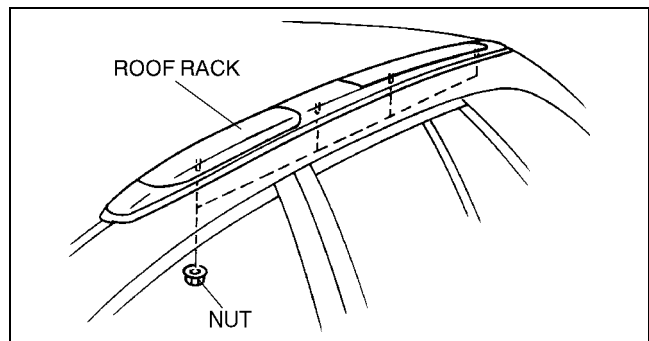


A3U0916W008

ROOF RACK REMOVAL/INSTALLATION

A3U091651720W01

1. Remove the headliner.
2. Remove the nuts.
3. Pull the roof rack upward, then remove the roof rack from the roof.
4. Install in the reverse order of removal.



Z4F7728W001

EXTERIOR TRIM

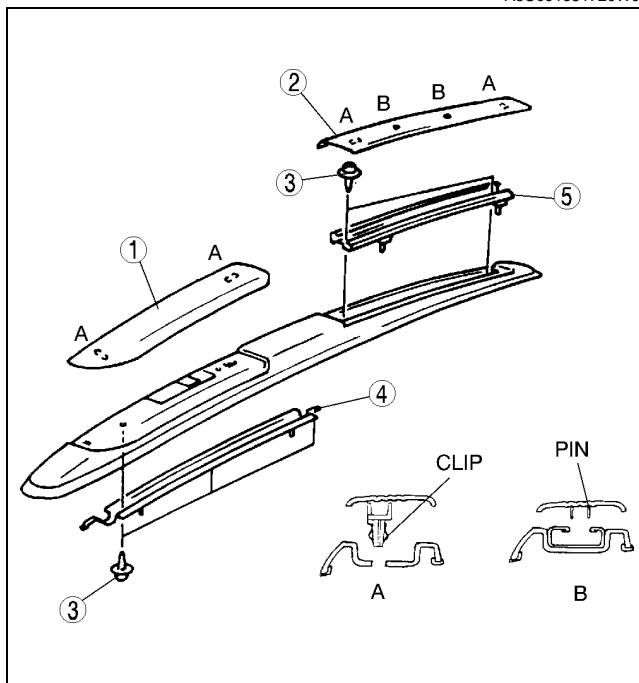
ROOF RACK DISASSEMBLY/ASSEMBLY

A3U091651720W02

1. Disassemble in the order indicated in the table.

1	Front cap
2	Rear cap
3	Screw
4	Front stay
5	Rear stay

2. Assemble in the reverse order of disassembly.



Z4F7728W002

ROOF CARRIER REMOVAL/INSTALLATION

A3U091651720W03

Caution

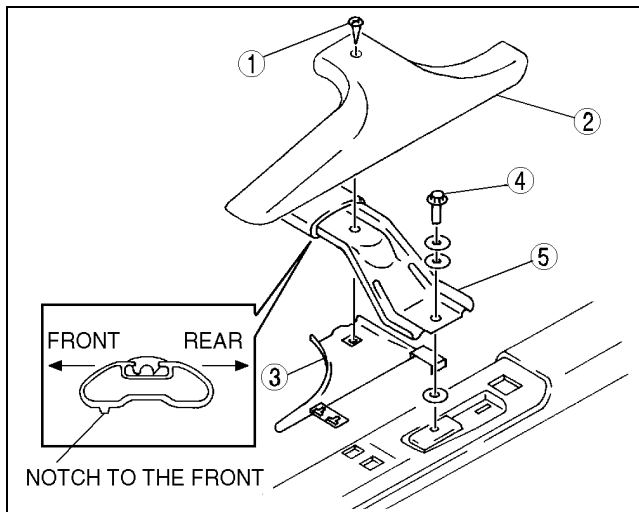
- When installing the front carrier bar to the vehicle, use two or more people to do the work and do not scratch the vehicle body.

Front

1. Remove in the order indicated in the table.

1	Screw
2	Cover A
3	Cover B
4	Bolt
5	Front carrier bar (See 09–16–6 Front Carrier Bar Installation Note.)

2. Install in the reverse order of removal.

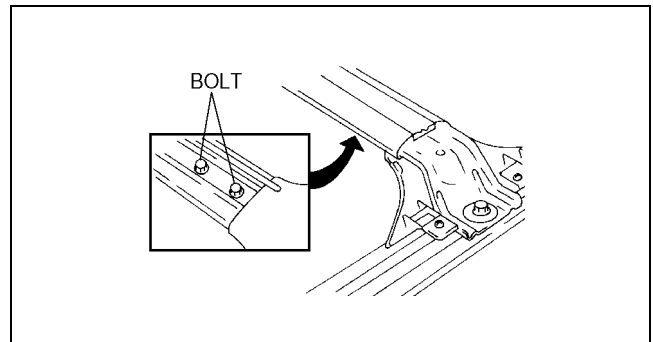


A3U0916W011

EXTERIOR TRIM

Front Carrier Bar Installation Note

1. Loosen the bolt under the front carrier bar, and adjust the front carrier bar position.



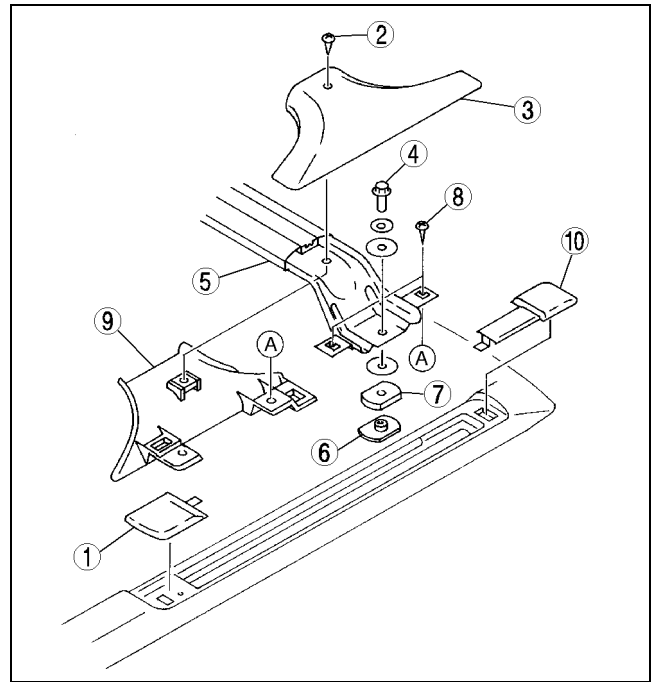
A3U0916W014

Rear

1. Remove in the order indicated in the table.

1	Front cover
2	Screw A
3	Cover A
4	Bolt
5	Rear carrier bar (See 09-16-6 Rear Carrier Bar Removal Note.) (See 09-16-7 Rear Carrier Bar Installation Note.)
6	Spacer
7	Stay
8	Screw B
9	Cover B
10	Rear cover

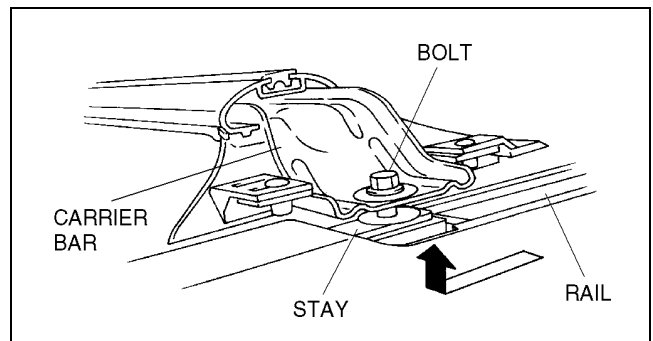
2. Install in the reverse order of removal.



A3U0916W013

Rear Carrier Bar Removal Note

1. Loosen the bolt, slide the rear carrier bar and stay, and remove them from the rail.

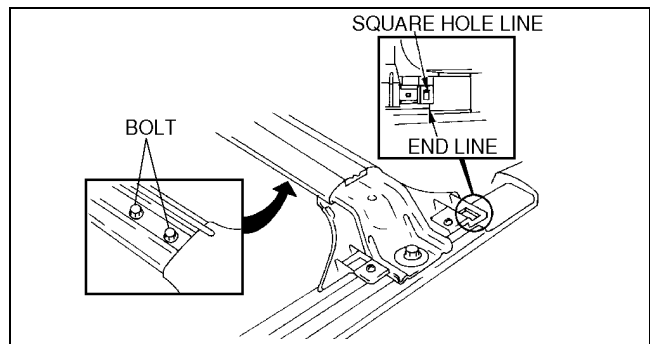


A3U0916W010

EXTERIOR TRIM

Rear Carrier Bar Installation Note

1. Loosen the bolt under the rear carrier bar, and adjust the rear carrier bar position.
2. When the rear carrier bar is in the final position, align the square hole line for cover B with the rear cover line.

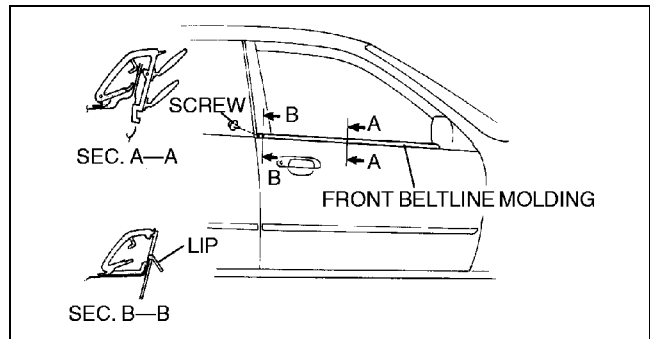


A3U0916W012

FRONT BELTLINE MOLDING REMOVAL/INSTALLATION

1. Open the front door glass fully.
2. Remove the screw.
3. Pull the front beltline molding up, then remove it.
4. Install in the reverse order of removal.

A3U091650640W01

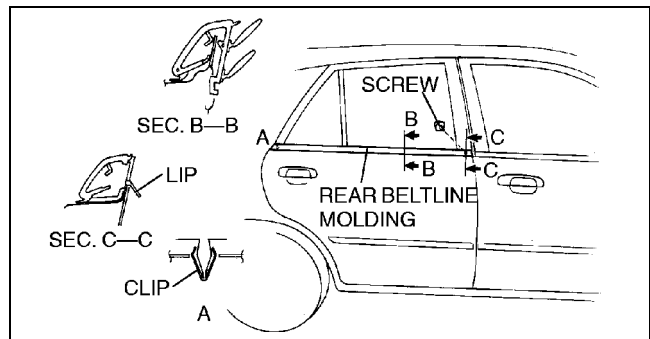


X3U916WA9

REAR BELTLINE MOLDING REMOVAL/INSTALLATION

1. Remove the rear door glass. (See 09-11-5 REAR DOOR DISASSEMBLY/ASSEMBLY.)
2. Remove the screw.
3. Pull the rear beltline molding up, then disengage clip A.
4. Install in the reverse order of removal.

A3U091650660W01



X3U916WAA

REAR WINDOW GLASS MOLDING REMOVAL

A3U091650690W01

Note

- Rear window glass molding is a replacement part.

1. Remove the rear window glass. (See 09-12-11 REAR WINDOW GLASS REMOVAL.)
2. Remove the rear window glass molding from the rear window glass.

REAR WINDOW GLASS MOLDING INSTALLATION

A3U091650690W02

Note

- Rear window glass molding is a replacement part.

1. Install the rear window glass molding to the rear window glass. (See 09-12-14 REAR WINDOW GLASS INSTALLATION.)

EXTERIOR TRIM

WINDSHIELD MOLDING REMOVAL

A3U091650600W01

Note

- Windshield molding is a replacement part.

1. Remove the windshield. (See 09–12–19 WINDSHIELD REMOVAL.)
2. Remove the windshield molding from the windshield.

WINDSHIELD MOLDING INSTALLATION

A3U091650600W02

Note

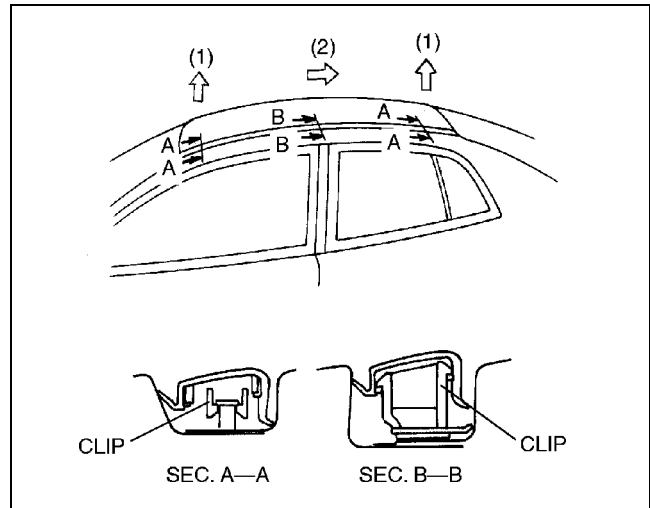
- Windshield molding is a replacement part.

1. Install the windshield molding to the windshield. (See 09–12–21 WINDSHIELD INSTALLATION.)

ROOF MOLDING REMOVAL/INSTALLATION

A3U091650620W01

1. Pull the front edge and rear edge of the roof molding up (1).
2. Slide the roof molding rearward, then remove it (2).
3. Install in the reverse order of removal.



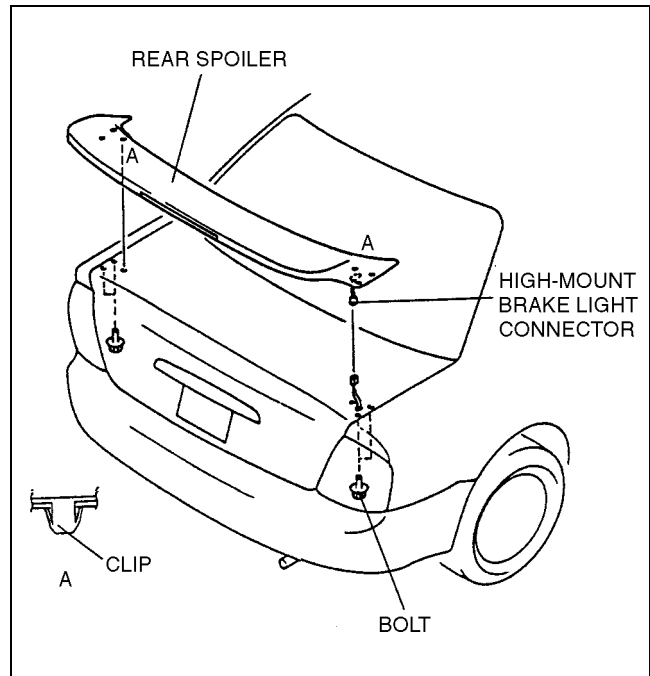
X3U916WAB

REAR SPOILER REMOVAL/INSTALLATION

A3U091651950W01

4SD

1. Disconnect the negative battery cable.
2. Disconnect the high-mount brake light connector.
3. Remove the bolts.
4. Pull the rear spoiler upward, then remove it.
5. Install in the reverse order of removal.

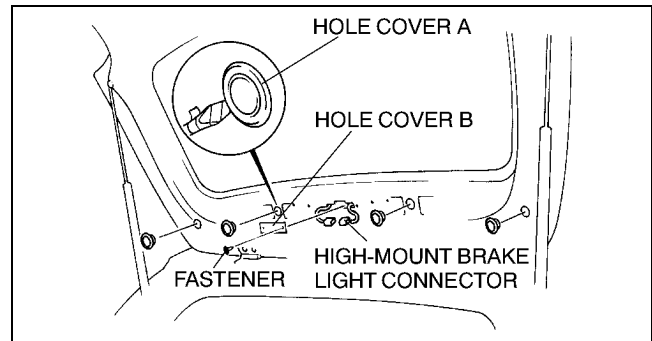


Y3U916WA0

EXTERIOR TRIM

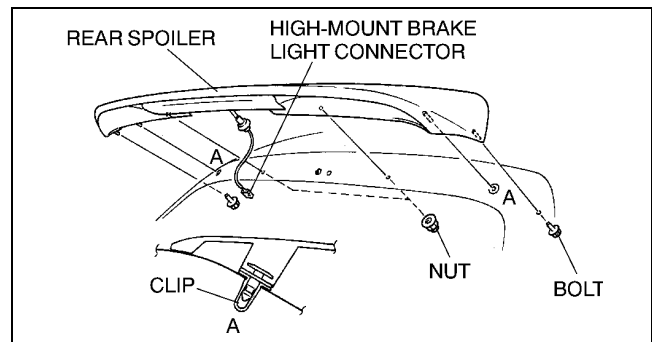
5HB

1. Disconnect the negative battery cable.
2. Remove the hole cover A using a tape-wrapped screwdriver.
3. Remove the fasteners, then remove hole cover B.
4. Pull out the high-mount brake light connector, then disconnect it.



A3U0916W006

5. Remove the bolts and nuts.
6. Pull the rear spoiler upward, then disengage clips A from the body.
7. Install in the reverse order of removal.



A3U0916W007

09-17 INTERIOR TRIM

DASHBOARD		B-PILLAR LOWER TRIM	
REMOVAL/INSTALLATION	09-17-1	INSTALLATION	09-17-11
DASHBOARD		B-PILLAR UPPER TRIM	
DISASSEMBLY/ASSEMBLY	09-17-3	REMOVAL/INSTALLATION	09-17-11
VENTILATOR GRILLE		C-PILLAR TRIM	
REMOVAL/INSTALLATION	09-17-3	REMOVAL/INSTALLATION	09-17-11
Center Side	09-17-3	4SD	09-17-11
Driver's side	09-17-4	5HB	09-17-12
Passenger's side	09-17-4	REAR PACKAGE TRIM	
CENTER PANEL		REMOVAL/INSTALLATION	09-17-12
REMOVAL/INSTALLATION	09-17-4	4SD	09-17-12
COLUMN COVER		5HB	09-17-12
REMOVAL/INSTALLATION	09-17-5	FRONT SCUFF PLATE	
CONSOLE ADJUSTMENT	09-17-5	REMOVAL/INSTALLATION	09-17-13
CONSOLE REMOVAL/INSTALLATION .	09-17-5	REAR SCUFF PLATE	
Boot Panel Removal Note	09-17-6	REMOVAL/INSTALLATION	09-17-13
Console Cover Removal Note	09-17-6	FRONT SIDE TRIM	
CONSOLE DISASSEMBLY/ASSEMBLY	09-17-6	REMOVAL/INSTALLATION	09-17-13
GLOVE COMPARTMENT		TIRE HOUSE TRIM	
REMOVAL/INSTALLATION	09-17-7	REMOVAL/INSTALLATION	09-17-13
LOWER PANEL		4SD	09-17-13
REMOVAL/INSTALLATION	09-17-7	5HB	09-17-14
Driver's side	09-17-7	TRUNK END TRIM	
Passenger's side	09-17-7	REMOVAL/INSTALLATION	09-17-14
METER HOOD		TRUNK SIDE TRIM	
REMOVAL/INSTALLATION	09-17-8	REMOVAL/INSTALLATION	09-17-15
SIDE PANEL		4SD	09-17-15
REMOVAL/INSTALLATION	09-17-8	5HB	09-17-15
SIDE WALL REMOVAL/INSTALLATION	09-17-8	TRUNK SIDE UPPER TRIM	
FRONT DOOR TRIM		REMOVAL/INSTALLATION	09-17-15
REMOVAL/INSTALLATION	09-17-9	LIFTGATE TRIM	
REAR DOOR TRIM		REMOVAL/INSTALLATION	09-17-16
REMOVAL/INSTALLATION	09-17-9	HEADLINER	
A-PILLAR TRIM		REMOVAL/INSTALLATION	09-17-16
REMOVAL/INSTALLATION	09-17-10	FLOOR COVERING	
B-PILLAR LOWER TRIM REMOVAL . . .	09-17-10	REMOVAL/INSTALLATION	09-17-17

09-17

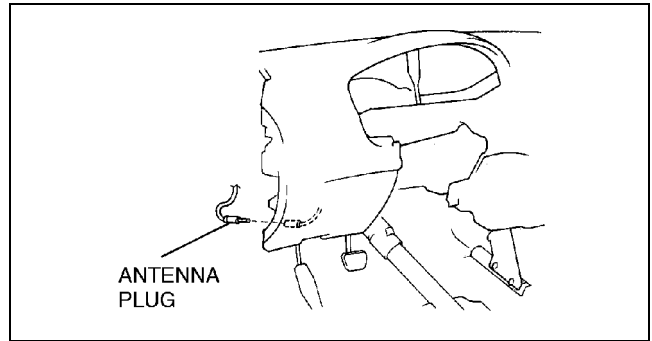
DASHBOARD REMOVAL/INSTALLATION

A3U091755100W01

1. Remove the passenger-side air bag module if equipped. (See 08-10-6 PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
2. Remove the combination switch. (See 09-18-12 COMBINATION SWITCH REMOVAL/INSTALLATION.)
3. Remove the installation bolts then shift the assembled steering shaft in the dashboard. (See 06-12-6 STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.)
4. Remove the instrument cluster. (See 09-22-3 INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)
5. Remove the console. (See 09-17-5 CONSOLE REMOVAL/INSTALLATION.)
6. Remove the glove compartment.
7. Remove the lower panel.
8. Remove the hood release cable installation nut.
9. Remove the side wall.
10. Remove the A-pillar trim. (See 09-17-10 A-PILLAR TRIM REMOVAL/INSTALLATION.)
11. Remove the side panel.

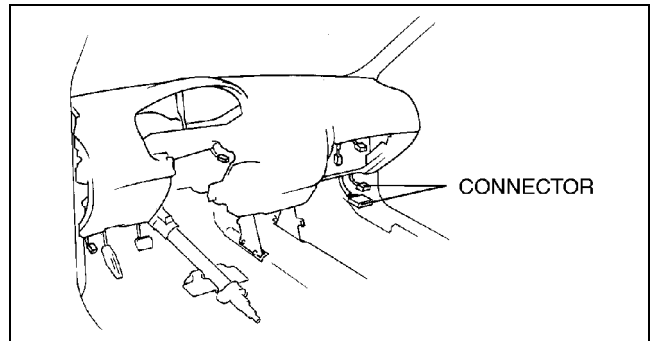
INTERIOR TRIM

12. Disconnect the antenna plug.
13. For vehicles equipped with the semi-logic type climate control unit, disconnect the wires for the heater unit. (See 07-40-9 CLIMATE CONTROL UNIT REMOVAL.) (See 07-40-10 CLIMATE CONTROL UNIT INSTALLATION.)



X3U917WA0

14. Disconnect the connectors.

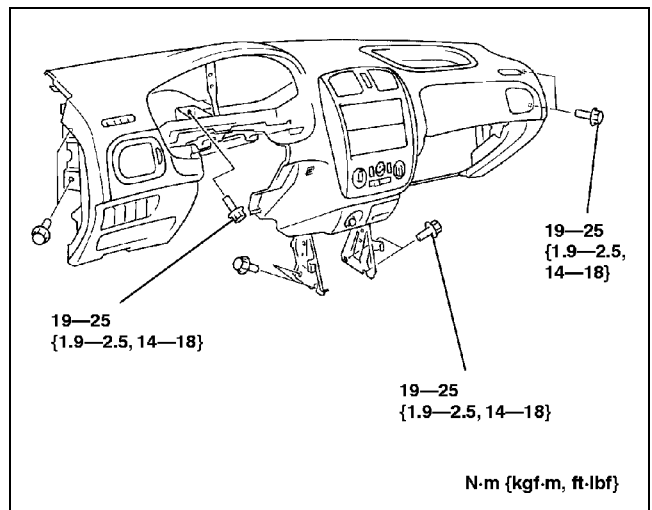


X3U917WA1

15. Remove the bolts.
16. Remove the dashboard from the vehicle.

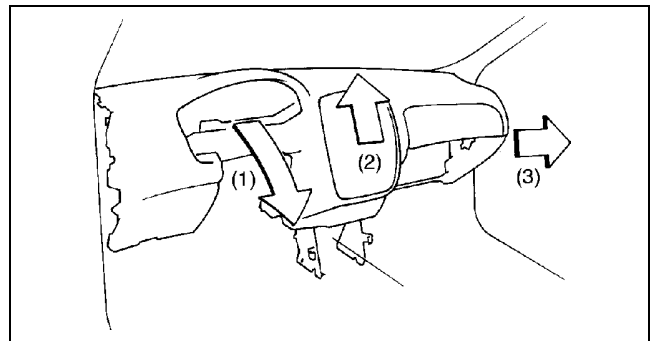
Warning

- Removing the dashboard without supporting it can be dangerous. The dashboard may fall and injure you. Always perform these procedures together with at least another person.



X3U917WA2

- (1) Incline the dashboard slowly forward.
 - (2) Lift up the dashboard while it is inclined forward.
 - (3) Remove the dashboard from the vehicle through the passenger-side front door.
17. Install in the reverse order of removal.



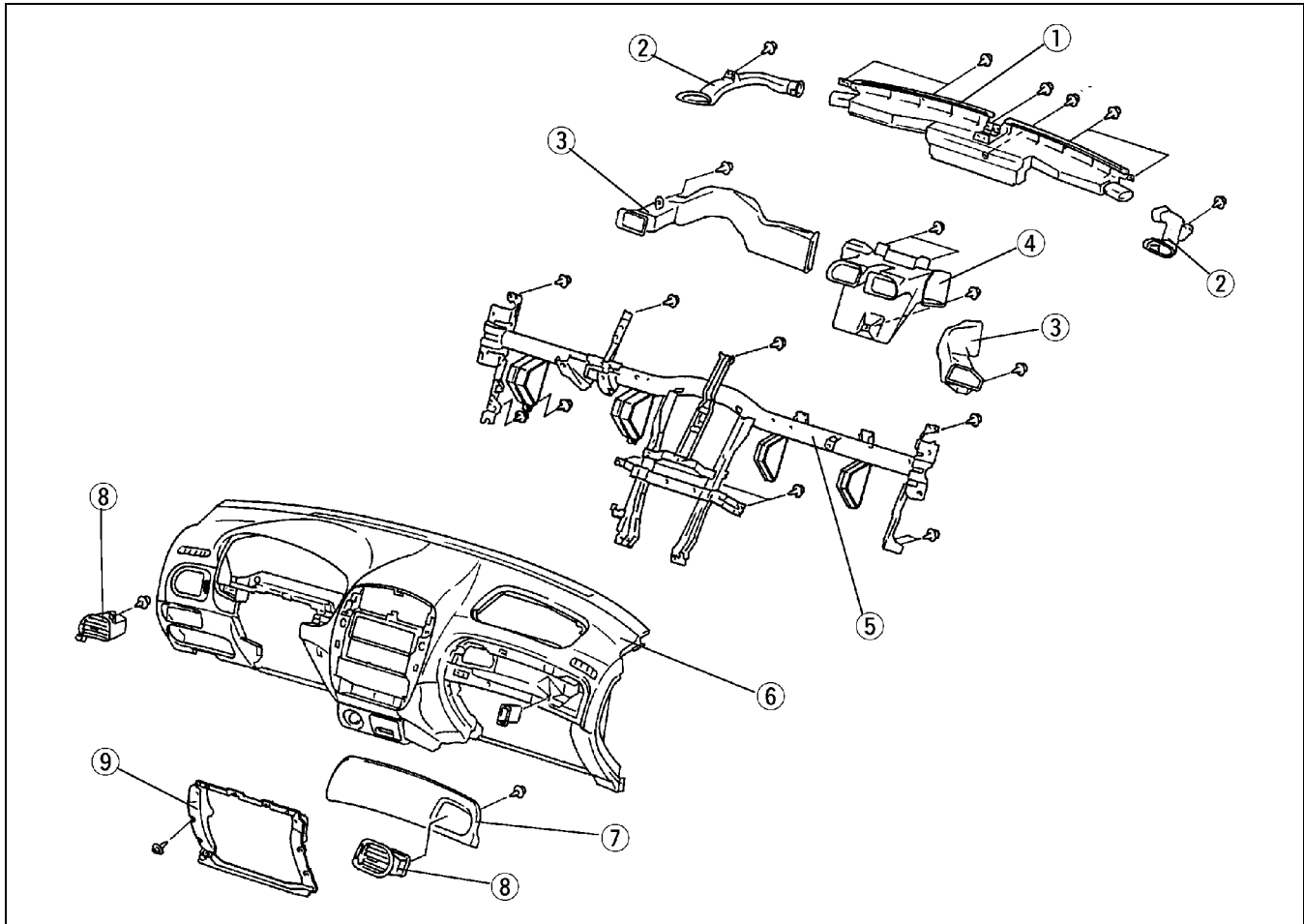
X3U917WA3

INTERIOR TRIM

DASHBOARD DISASSEMBLY/ASSEMBLY

A3U091755100W02

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



X3U917WA4

1	Defroster nozzle
2	Side demister duct
3	Duct
4	Center duct
5	Dashboard member

6	Crush pad
7	Pad
8	Ventilator grille
9	Passenger-side lower panel

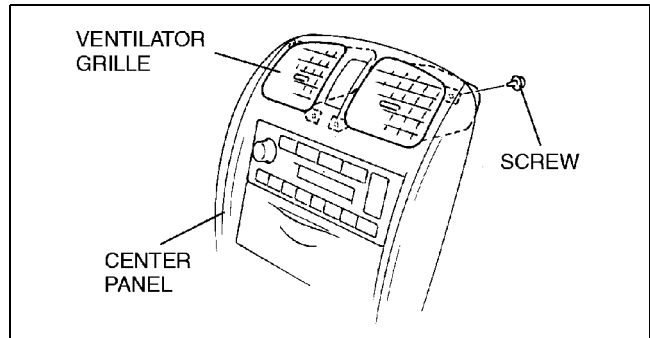
09-17

VENTILATOR GRILLE REMOVAL/INSTALLATION

A3U091764730W01

Center Side

1. Remove the center panel. (See 09-17-4 CENTER PANEL REMOVAL/INSTALLATION.)
2. Remove the screws from behind the center panel.
3. Install in the reverse order of removal.

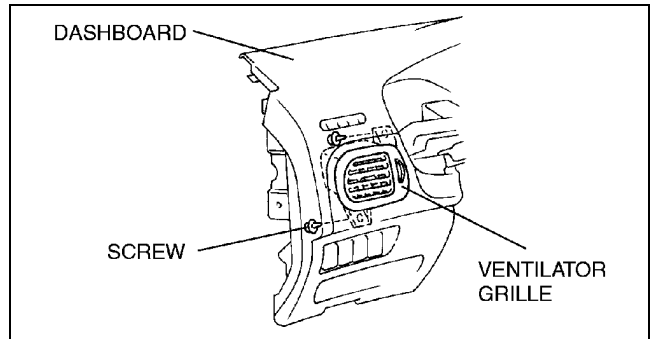


X3U917WA5

INTERIOR TRIM

Driver's side

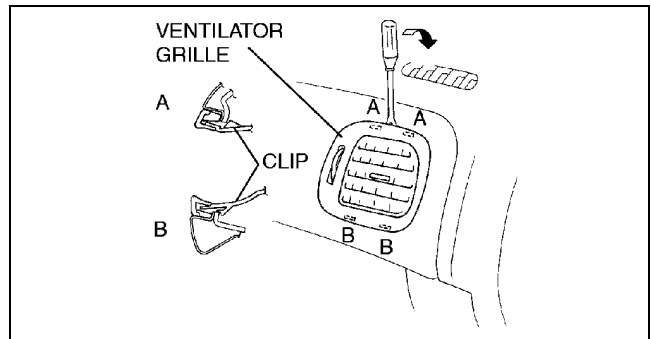
1. Remove the dashboard. (See 09-17-1 DASHBOARD REMOVAL/INSTALLATION.)
2. Remove the screws from behind the dashboard.
3. Install in the reverse order of removal.



X3U917WA6

Passenger's side

1. Disengage clips A and B using a fastener remover as shown in the figure.
2. Install in the reverse order of removal.

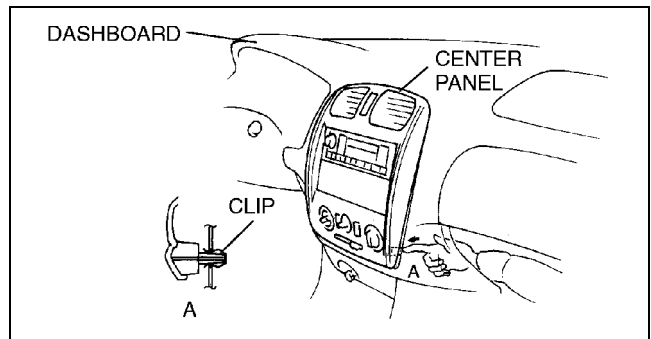


X3U917WA7

CENTER PANEL REMOVAL/INSTALLATION

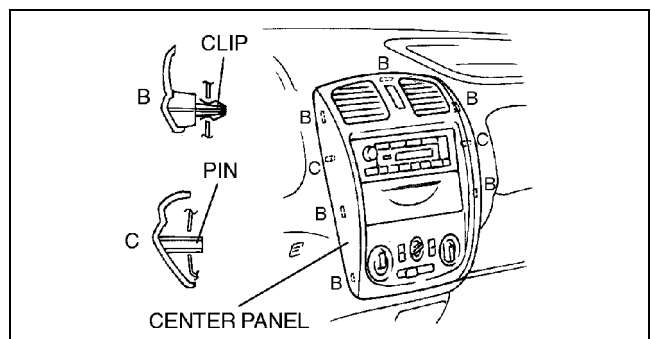
A3U091755210W01

1. Disconnect the negative battery cable.
2. Remove the glove compartment.
3. For vehicles equipped with the semi-logic type climate control unit, disconnect the wires for the heater unit. (See 07-40-9 CLIMATE CONTROL UNIT REMOVAL.) (See 07-40-10 CLIMATE CONTROL UNIT INSTALLATION.)
4. Push out clip A from behind the dashboard.



X3U917WA8

5. Pull the center panel, then remove clips B and pins C from the dashboard.
6. Disconnect the hazard warning switch connector and climate control unit connector.
7. Install in the reverse order of removal.



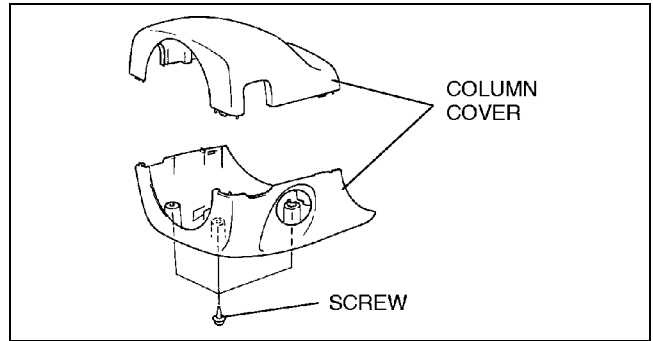
X3U917WA9

INTERIOR TRIM

COLUMN COVER REMOVAL/INSTALLATION

A3U091760200W01

1. Remove the screws, then remove the column cover.
2. Install in the reverse order of removal.



X3U917WAA

CONSOLE ADJUSTMENT

A3U091764310W01

Caution

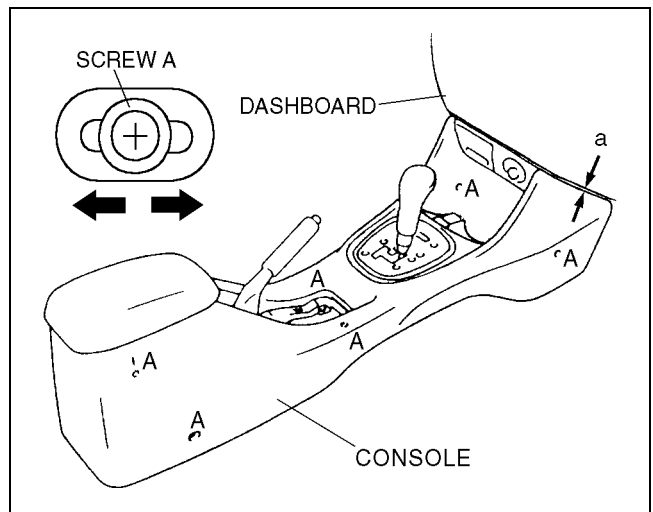
- Take care to install the console and the center panel so that there is no interference which may cause noise.

1. Loosen screws A.
2. Slide the console indicated by the arrow and measure the gap between the console and the dashboard.

Clearance

a: 0.2—1.8 mm {0.0008—0.07 in}

3. Tighten screws A.



Z3U0917W006

09-17

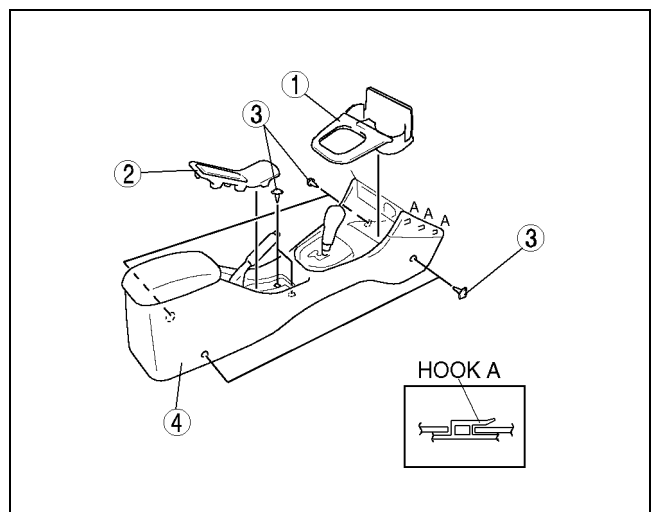
CONSOLE REMOVAL/INSTALLATION

A3U091764310W02

1. For MTX vehicle, remove the shift lever knob.
2. Remove in the order indicated in the table.

1	Boot panel (See 09-17-6 Boot Panel Removal Note.)
2	Console cover (See 09-17-6 Console Cover Removal Note.)
3	Screw
4	Console

3. Install in the reverse order of removal.

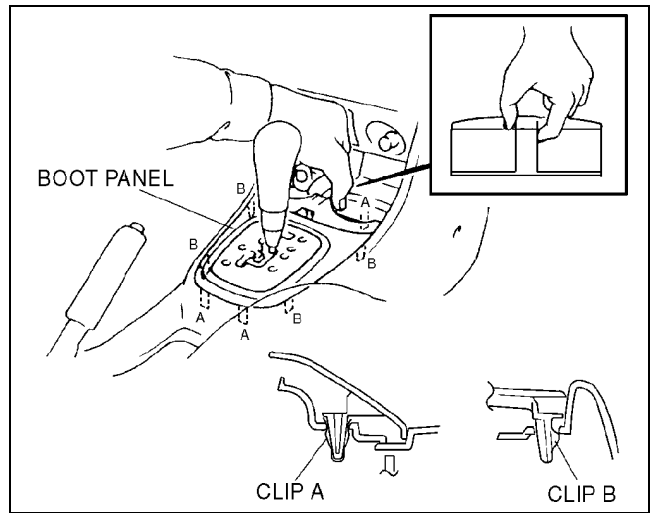


Z3U0917W007

INTERIOR TRIM

Boot Panel Removal Note

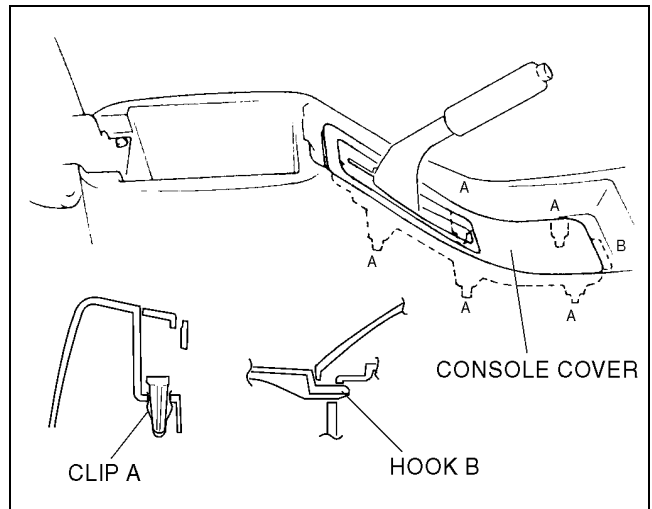
1. Pull the boot panel upward, then disengage clips A and B from the console.



Y3E7742W301

Console Cover Removal Note

1. Disengage clip A using a tape-wrapped flathead screwdriver.
2. Pull the console cover upward, then disengage hook B from the console.



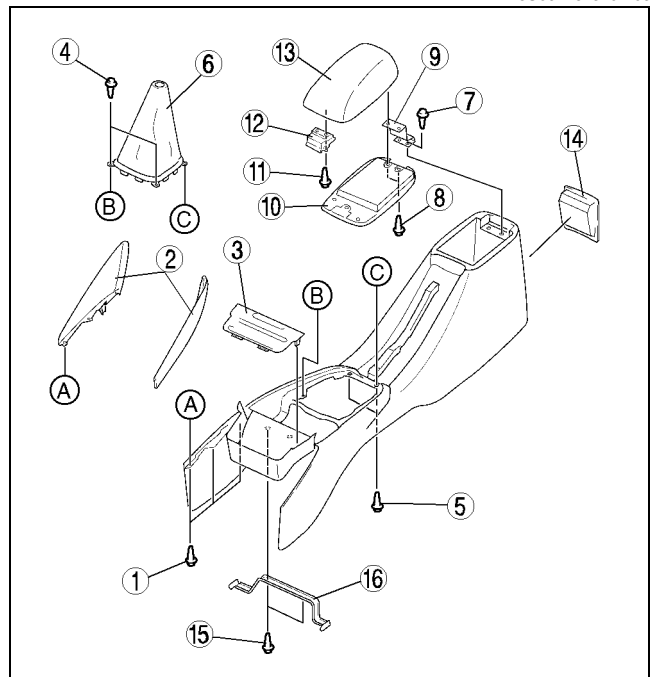
Y3E7742W302

CONSOLE DISASSEMBLY/ASSEMBLY

1. Disassemble in the order indicated in the table.

1	Screw A
2	Side wall
3	Cover
4	Screw B (MTX)
5	Screw C (MTX)
6	Boot (MTX)
7	Screw D
8	Screw E
9	Console lid hinge
10	Console lid inner
11	Screw F
12	Console lid lock
13	Console lid outer
14	Ashtray
15	Screw G
16	Bracket

A3U091764310W03



Y3E7742W305

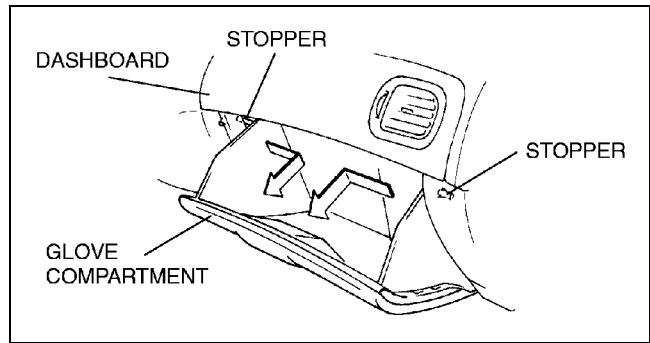
2. Assemble in the reverse order of disassembly.

INTERIOR TRIM

GLOVE COMPARTMENT REMOVAL/INSTALLATION

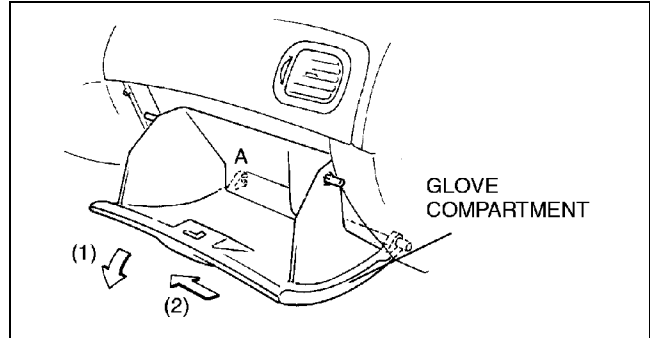
A3U091764030W01

1. Bend the stoppers inward, then remove them.



X3U917WAG

2. Pull the glove compartment toward you while pushing it downward (1), then remove clip A.
3. Slide the glove compartment toward driver's side door (2).
4. Install in the reverse order of removal.



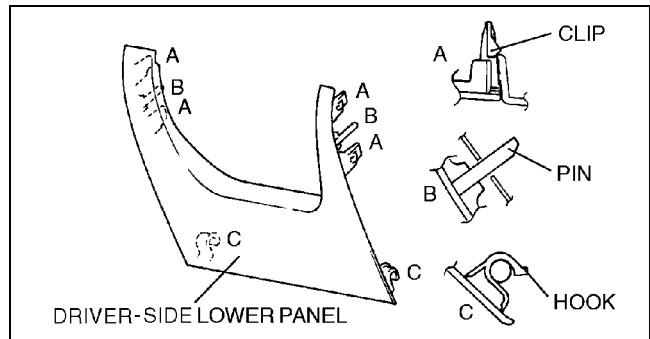
X3U917WAH

LOWER PANEL REMOVAL/INSTALLATION

A3U091764280W01

Driver's side

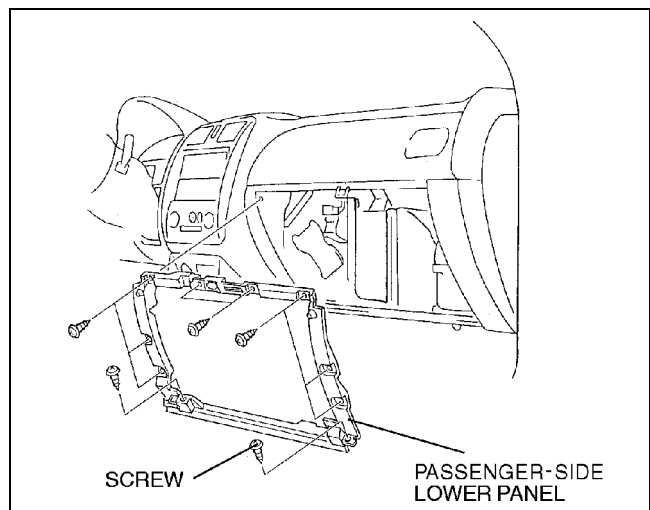
1. Pull the upper side of the lower panel downward, then disengage clips A and pins B from the dashboard.
2. Pull the lower panel toward you, then disengage hooks C from the dashboard.
3. Install in the reverse order of removal.



Z3U0917W003

Passenger's side

1. Remove the glove compartment.
2. Remove the screws.
3. Install in the reverse order of removal.



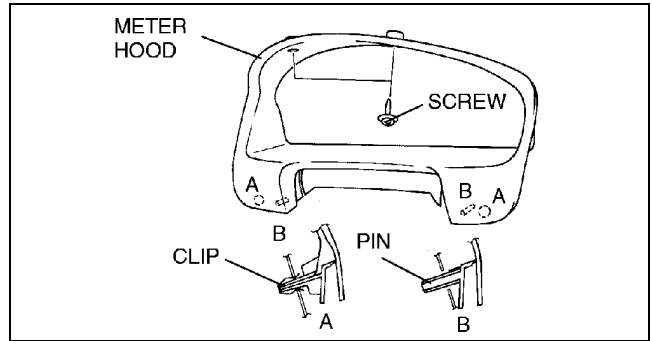
Z3U0917W004

INTERIOR TRIM

METER HOOD REMOVAL/INSTALLATION

A3U091755420W01

1. Remove the screws.
2. Pull the meter hood toward you, then remove clips A and pins B from the dashboard.
3. Install in the reverse order of removal.

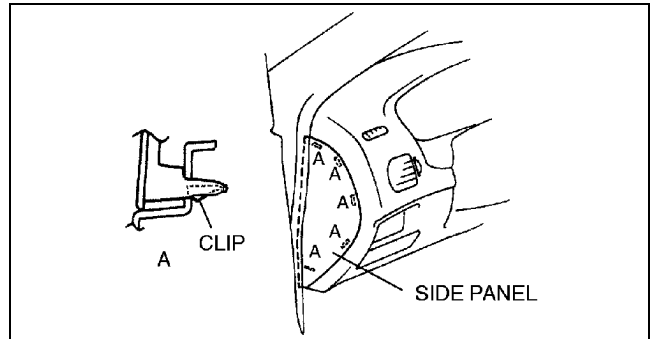


X3U917WAL

SIDE PANEL REMOVAL/INSTALLATION

A3U091764960W01

1. Remove clips A using a tape-wrapped flathead screwdriver.
2. Install in the reverse order of removal.

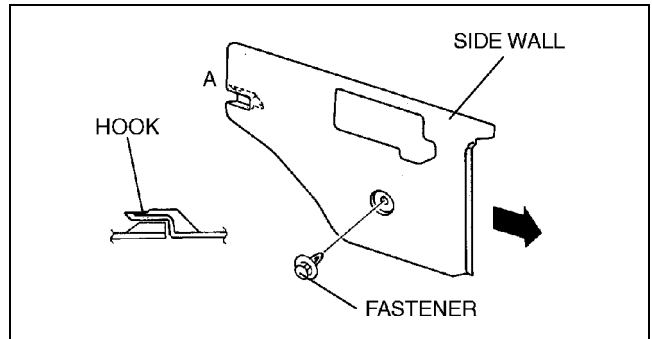


X3U917WAM

SIDE WALL REMOVAL/INSTALLATION

A3U091768371W01

1. Remove the fastener.
2. Pull the side wall indicated toward the arrow and disengage hook A from the body.
3. Install in the reverse order of removal.



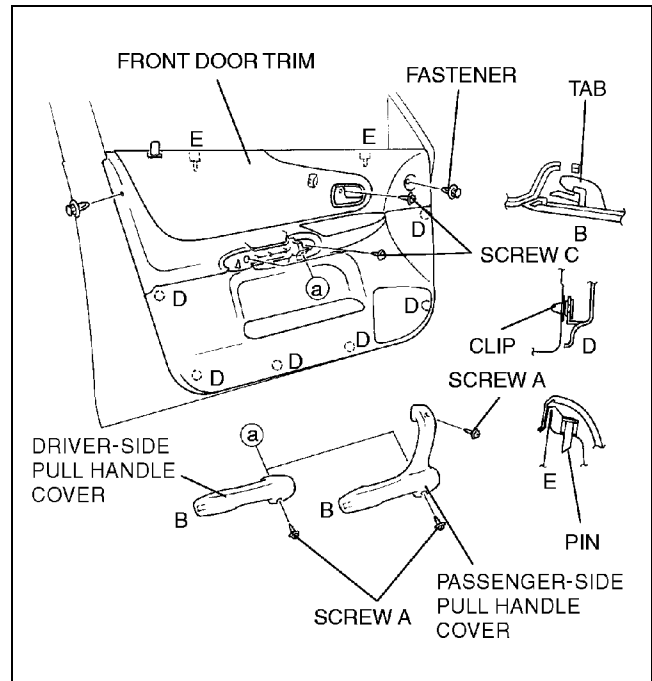
Y3U917WA3

INTERIOR TRIM

FRONT DOOR TRIM REMOVAL/INSTALLATION

A3U091768420W01

1. Remove the inner garnish.
2. Remove the regulator handle if equipped.
3. Remove screws A and the fastener.
4. Slide the pull handle cover toward the front of the vehicle, then disengage tab B from the front door trim.
5. Remove the screws C.
6. Disengage clips D using a fastener remover from the body.
7. Pull the front door trim upward, then disengage pins E from the body.
8. Extract the inner handle from the front door trim.
9. Disconnect the power window main switch connector (driver's side).
10. Disconnect the power window sub switch connector (passenger's side).
11. Install in the reverse order of removal.



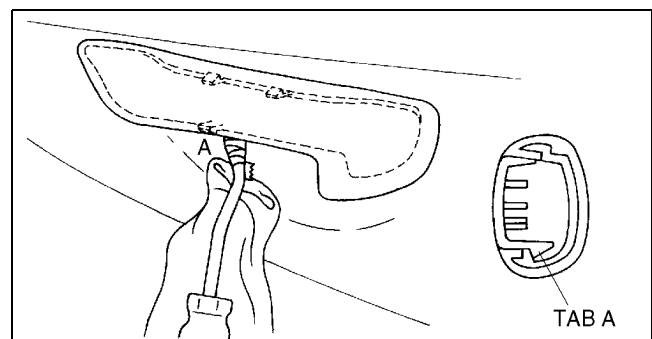
Z3U0917W005

REAR DOOR TRIM REMOVAL/INSTALLATION

A3U091768520W01

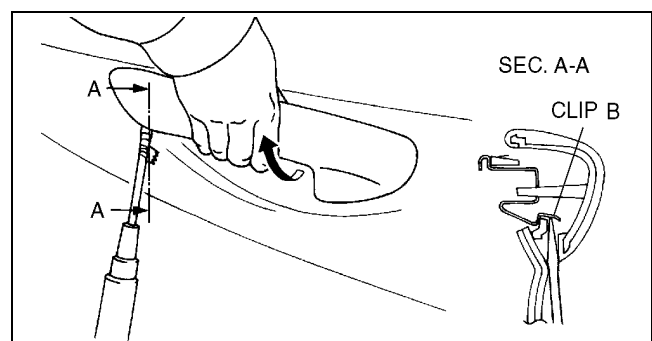
09-17

1. Disconnect the negative battery cable if equipped with power window.
2. Remove the regulator handle if equipped.
3. Insert a tape-wrapped fastener remover under the pull-handle cover, and disengage tab A.



A3U0916W015

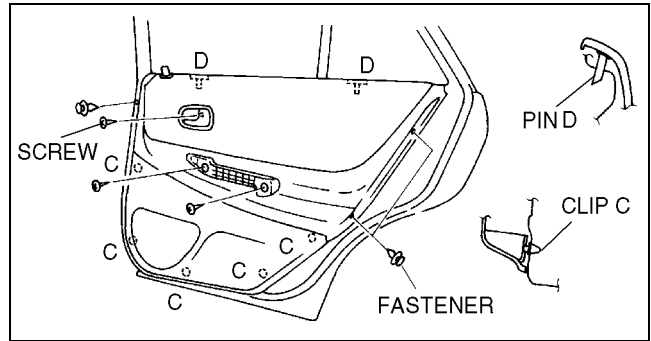
4. Insert a tape-wrapped flathead screwdriver into the access hole under the forward pull-handle cover, and remove the pull-handle cover by pulling it upward and diagonally while pushing clip B.



A3U0916W016

INTERIOR TRIM

5. Remove the screws and fasteners.
6. Disengage clips C using a fastener remover.
7. Pull the rear door trim upward, then disengage pins D from the body.
8. Disconnect the power window sub switch connector if equipped.
9. Remove the inner handle from the rear door trim.
10. Install in the reverse order of removal.

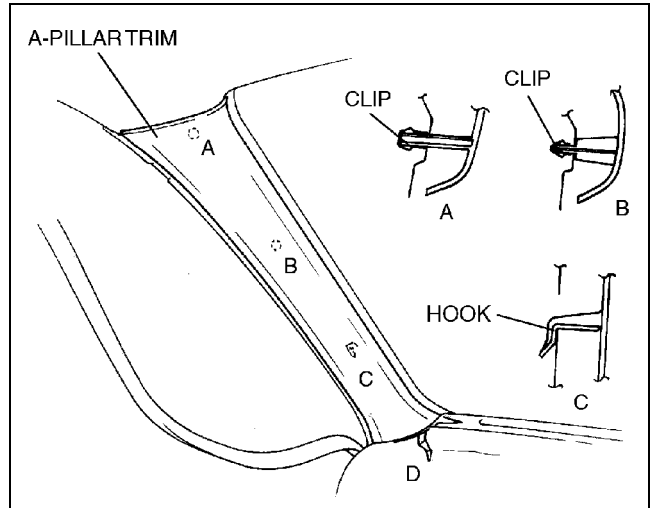


A3U0916W017

A-PILLAR TRIM REMOVAL/INSTALLATION

A3U091768160W01

1. Turn the seaming welt over.
2. Disengage clips A and B using a fastener remover.
3. Pull the A-pillar trim upward, then disengage hooks C and D.
4. Install in the reverse order of removal.



Y3U917WA5

B-PILLAR LOWER TRIM REMOVAL

A3U091768220W01

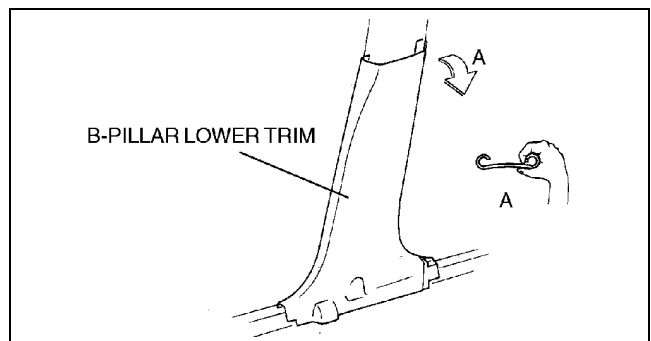
Warning

- Handling the side air bag sensor improperly can accidentally deploy the side air bag module, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before working around the B-pillar areas. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

Note

- The side air bag sensor is located in the B-pillar.

1. Disconnect the negative battery cable.
2. Remove the front scuff plate.
3. Remove the rear scuff plate.
4. Pull the area marked A, then remove one side of the B-pillar lower trim.



X3U917WAS

INTERIOR TRIM

B-PILLAR LOWER TRIM INSTALLATION

A3U091768220W02

Warning

- Handling the side air bag sensor improperly can accidentally deploy the side air bag module, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before working around the B-pillar areas. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

Note

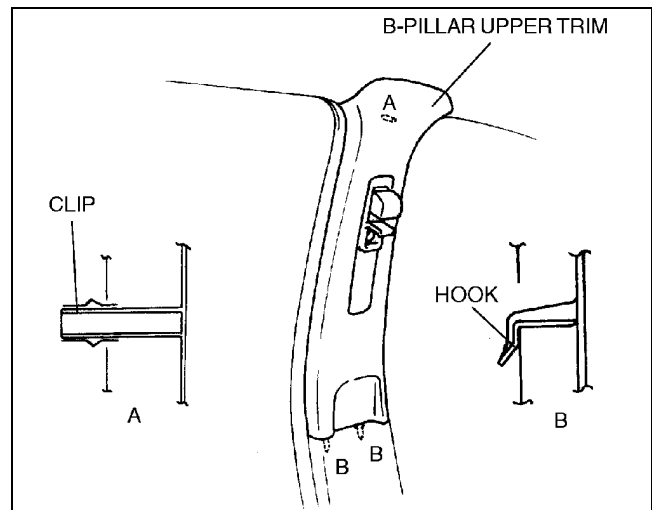
- The side air bag sensor is located in the B-pillar.

1. Disconnect the negative battery cable.
2. Install the B-pillar lower trim to the B-pillar with setting 5—10 mm {0.20—0.39 in} upward from its original installation place.
3. Slide the B-pillar lower trim downward.
4. Install the rear scuff plate.
5. Install the front scuff plate.

B-PILLAR UPPER TRIM REMOVAL/INSTALLATION

A3U091768210W01

1. Remove the upper anchor of the front seat belt. (See 08-11-1 FRONT SEAT BELT REMOVAL/INSTALLATION.)
2. Remove the B-pillar lower trim. (See 09-17-10 B-PILLAR LOWER TRIM REMOVAL.) (See 09-17-11 B-PILLAR LOWER TRIM INSTALLATION.)
3. Turn the seaming welt over.
4. Disengage clip A using a fastener remover.
5. Pull the B-pillar upper trim upward, then disengage hooks B from the body.
6. Install in the reverse order of removal.



Y3U917WA6

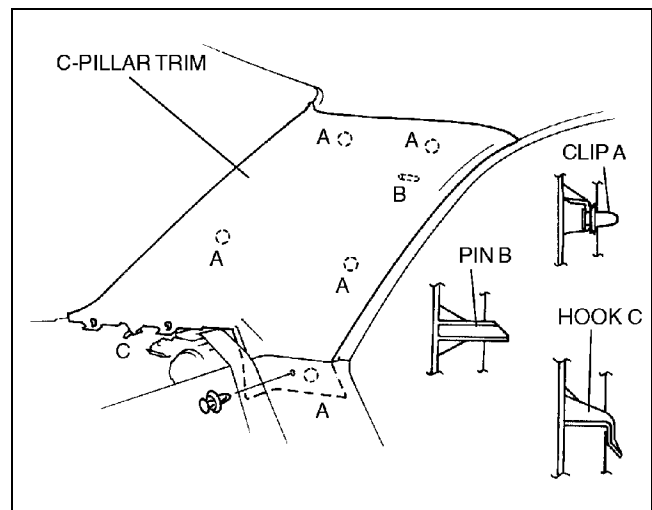
09-17

C-PILLAR TRIM REMOVAL/INSTALLATION

A3U091768240W01

4SD

1. Remove the tire house trim.
2. Turn the seaming welt over.
3. Disengage clips A and pin B using a fastener remover.
4. Pull the C-pillar trim upward, then disengage hook C from the body.
5. Install in the reverse order of removal.



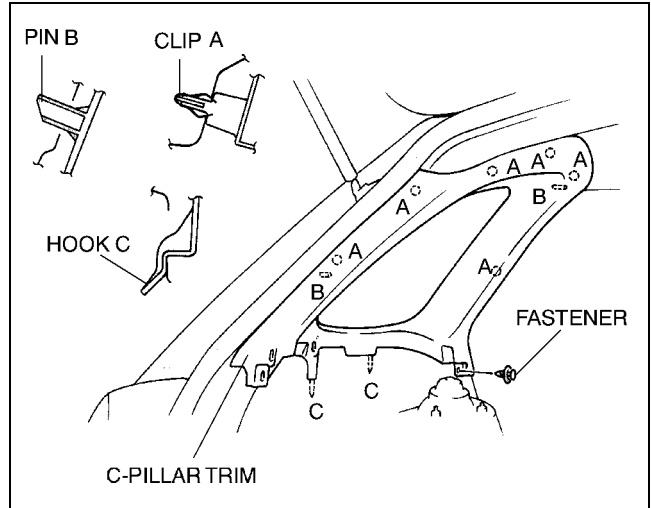
Y3U917WA7

09-17-11

INTERIOR TRIM

5HB

1. Remove the trunk side trim.
2. Remove the rear center seat belt upper anchor installation bolt. (LH only)
3. Remove the fastener.
4. Disengage clips A and pins B using a fastener remover.
5. Pull the C-pillar trim upward, then disengage hooks C from the body.
6. Install in the reverse order of removal.



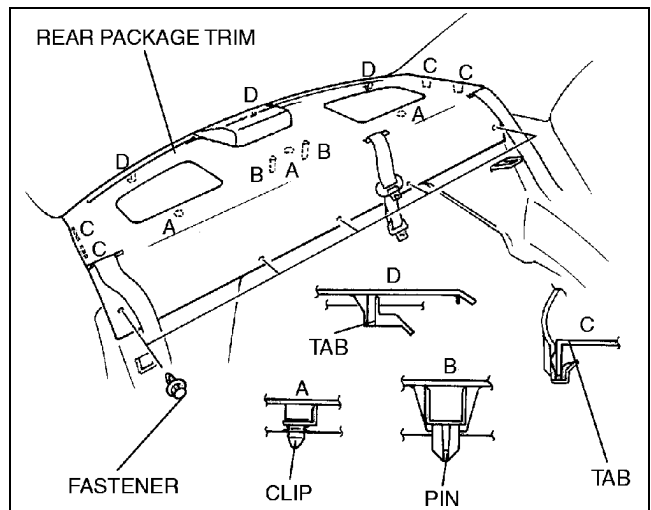
A3U0917W001

REAR PACKAGE TRIM REMOVAL/INSTALLATION

4SD

1. Remove the rear seat back.
2. Pull the rear package trim upward, then disengage clips A, pins B and tabs C from the body.
3. Pull the rear package trim toward you, then disengage tabs D from the body.
4. Install in the reverse order of removal.

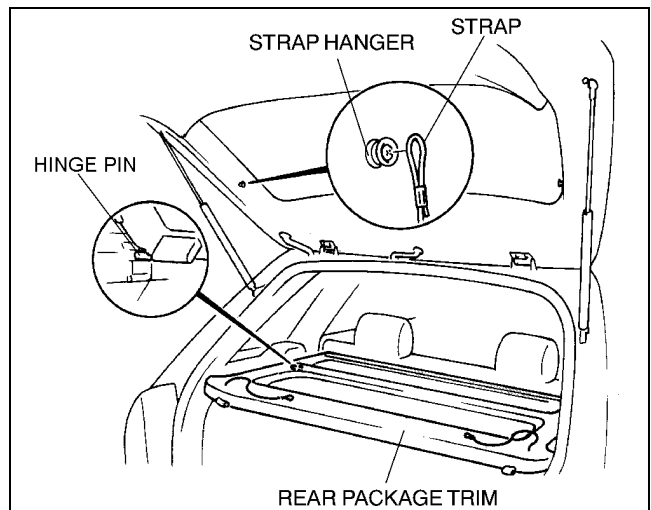
A3U091768320W01



Z3U0917W001

5HB

1. Remove the straps from the strap hangers.
2. Pull the rear package trim, then remove the hinge pin from the trunk side trim.
3. Install in the reverse order of removal.

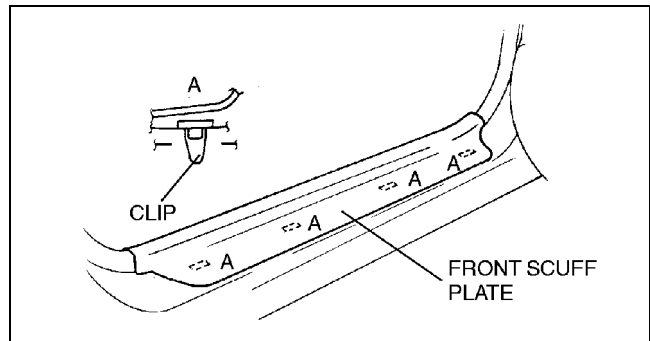


A3U0917W003

INTERIOR TRIM

FRONT SCUFF PLATE REMOVAL/INSTALLATION

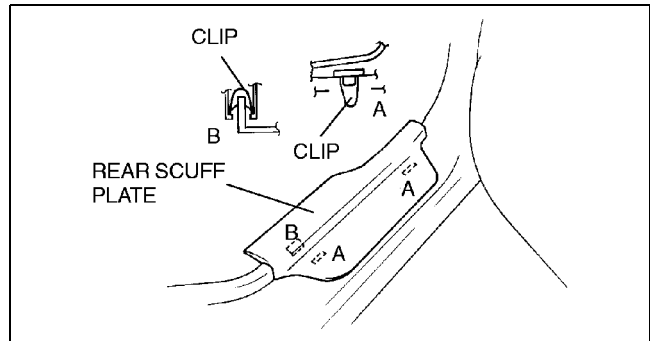
1. Pull the front scuff plate upward, then disengage clips A from the body.
2. Install in the reverse order of removal.



X3U917WAW

REAR SCUFF PLATE REMOVAL/INSTALLATION

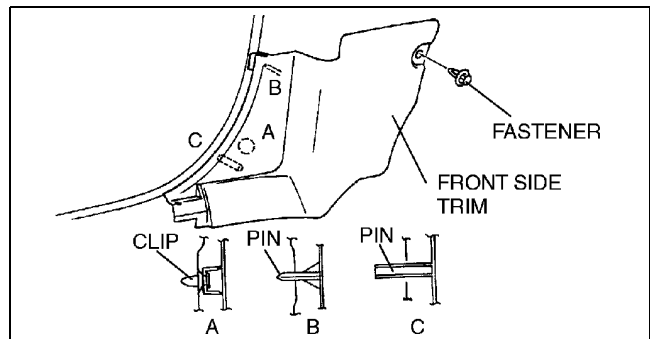
1. Pull the rear scuff plate upward, then disengage clips A and B from the body.
2. Install in the reverse order of removal.



X3U917WAX

FRONT SIDE TRIM REMOVAL/INSTALLATION

1. Remove the front scuff plate.
2. Turn the seaming welt over.
3. Remove the fasteners.
4. Pull the front side trim toward you, then disengage clip A, pins B and C from the body.
5. Install in the reverse order of removal.

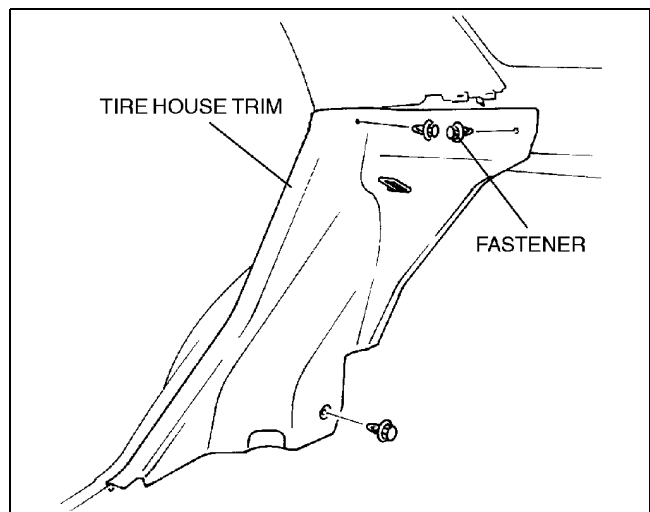


X3U917WAY

A3U091768760W01

TIRE HOUSE TRIM REMOVAL/INSTALLATION 4SD

1. Remove the rear seat back.
2. Remove the rear scuff plate.
3. Remove the rear package trim.
4. Remove the lower anchor installation bolt from the rear seat belt.
5. Remove the fasteners.
6. Pull the tire house trim forward, then remove the tire house trim.
7. Install in the reverse order of removal.

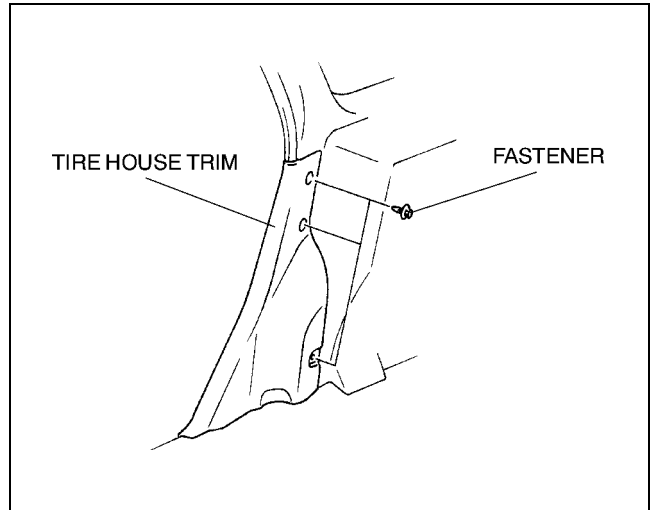


X3U917WAZ

INTERIOR TRIM

5HB

1. Lift up the rear seat cushion.
2. Remove the rear seat back.
3. Remove the rear scuff plate.
4. Remove the fasteners.
5. Pull the tire house trim forward, then remove the tire house trim.
6. Install in the reverse order of removal.

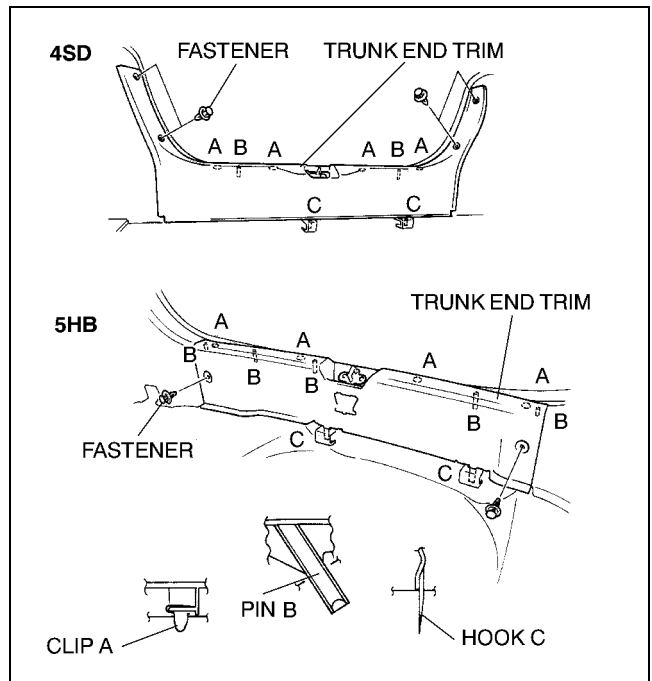


A3U0917W002

TRUNK END TRIM REMOVAL/INSTALLATION

1. Turn the weatherstrip over.
2. Remove the fasteners.
3. Disengage clips A using a fastener remover from the body.
4. Pull the trunk end trim upward, then disengage pins B and C from the body.
5. Install in the reverse order of removal.

A3U091768890W01



A3U0917W006

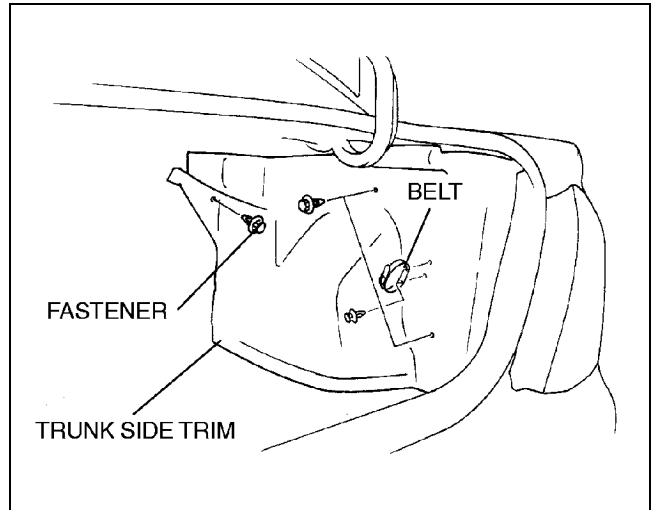
INTERIOR TRIM

TRUNK SIDE TRIM REMOVAL/INSTALLATION

A3U091768860W01

4SD

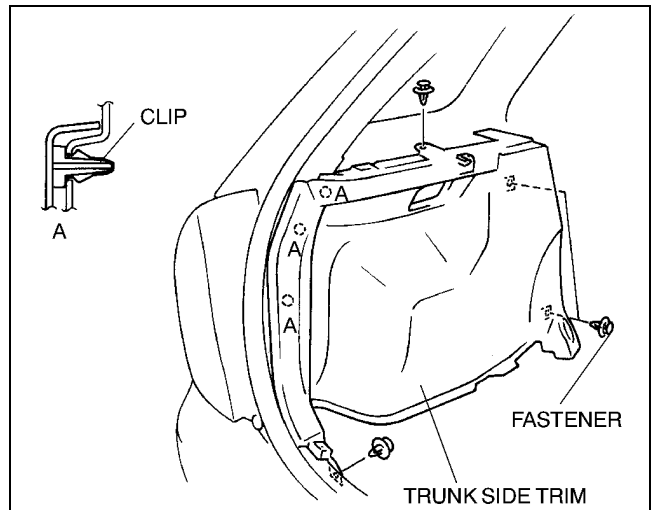
1. Remove the trunk mat.
2. Remove the trunk end trim.
3. Remove the tire house trim.
4. Remove the fasteners, then remove the belt.
5. Pull the trunk side trim outward, then remove it.
6. Install in the reverse order of removal.



X3U917WB1

5HB

1. Remove the trunk end trim.
2. Turn over the weatherstrip.
3. Remove the trunk side upper trim.
4. Remove the tire house trim.
5. Remove the fasteners.
6. Remove the trunk side trim, then disengage clips A.
7. Disconnect the cargo compartment light connector. (LH only)
8. Install in the reverse order of removal.

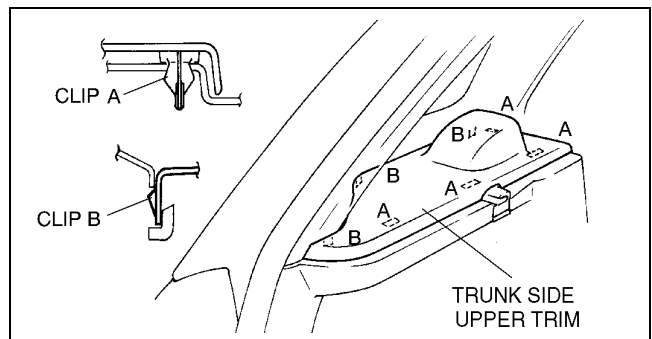


A3U0917W005

TRUNK SIDE UPPER TRIM REMOVAL/INSTALLATION

A3U091768860W02

1. Remove the rear package trim.
2. Pull the trunk side upper trim upward, then disengage clips A and B from the body.
3. Lift up the rear seat cushion.
4. Remove the rear seat belt lower anchor installation bolts.
5. Install in the reverse order of removal.



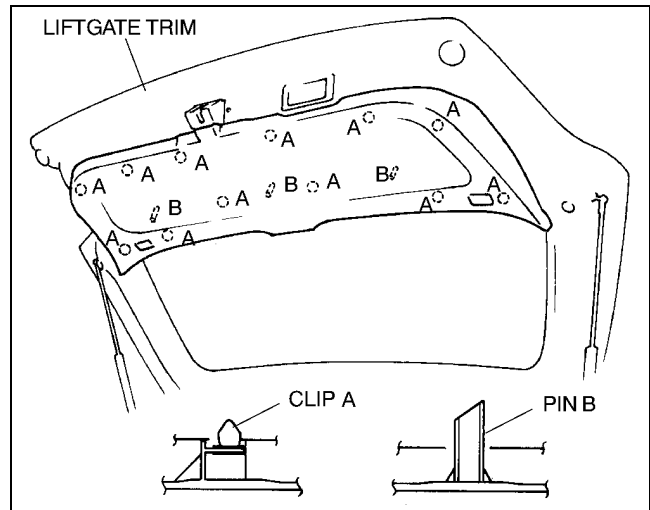
A3U0917W004

INTERIOR TRIM

LIFTGATE TRIM REMOVAL/INSTALLATION

A3U091768961W01

1. Disengage clips A and pins B using a fastener remover, then remove the liftgate trim.
2. Install in the reverse order of removal.

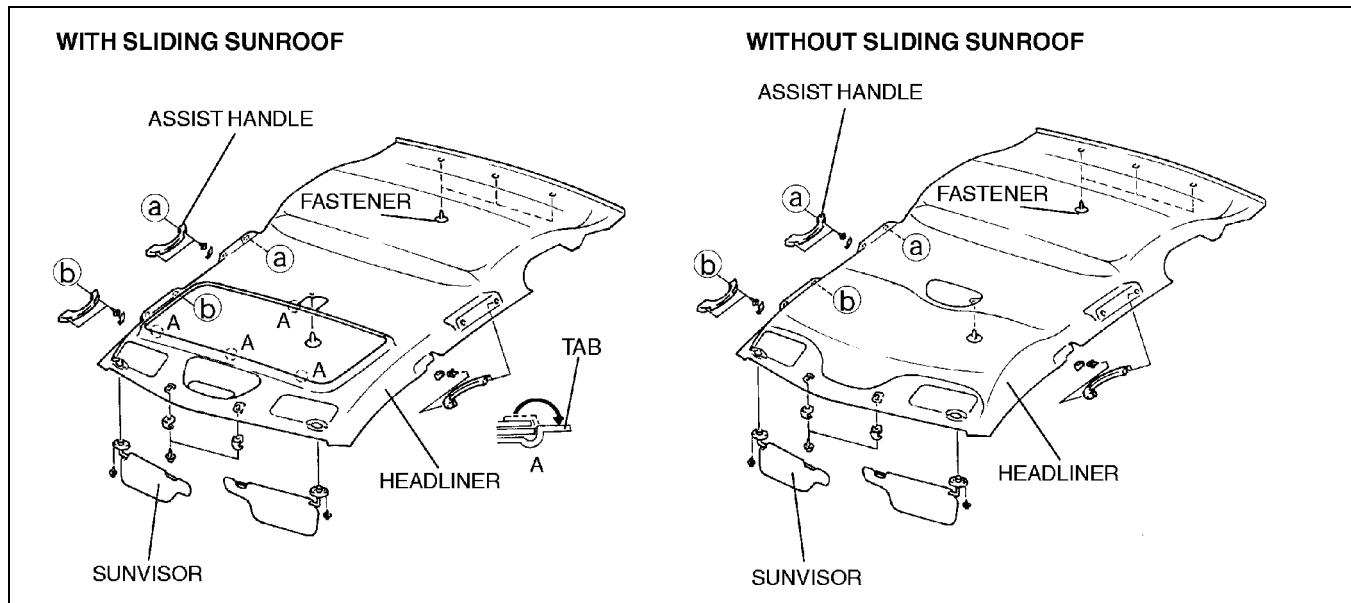


A3U0917W007

HEADLINER REMOVAL/INSTALLATION

A3U091768030W01

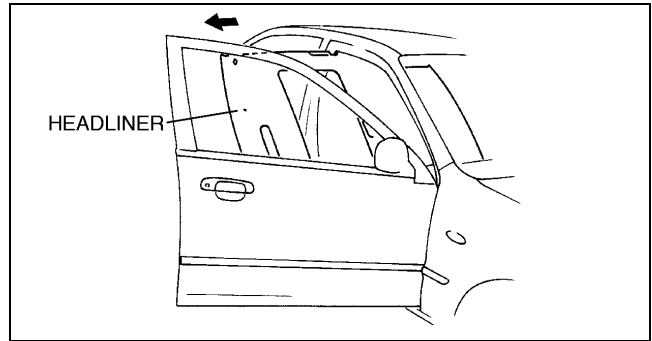
1. Disconnect the negative battery cable.
2. Turn the seaming welt and weatherstrip over.
3. Remove the A-pillar trims. (See 09-17-10 A-PILLAR TRIM REMOVAL/INSTALLATION.)
4. Remove the B-pillar upper trims. (See 09-17-11 B-PILLAR UPPER TRIM REMOVAL/INSTALLATION.)
5. Remove the C-pillar trims. (See 09-17-11 C-PILLAR TRIM REMOVAL/INSTALLATION.)
6. Remove the interior and map light if not equipped with a sliding sunroof. (See 09-18-20 INTERIOR AND MAP LIGHT REMOVAL/INSTALLATION.)
7. Remove the map light and interior light if equipped with a sliding sunroof. (See 09-18-22 INTERIOR LIGHT REMOVAL/INSTALLATION.) (See 09-18-21 MAP LIGHT REMOVAL/INSTALLATION.)
8. Remove the screws then remove the sunvisor and assist handle.
9. Fold tabs A up if equipped with a sliding sunroof.
10. Remove the fasteners.



Z3U0917W002

INTERIOR TRIM

11. Remove the headliner diagonally from the passenger-side front door frame.

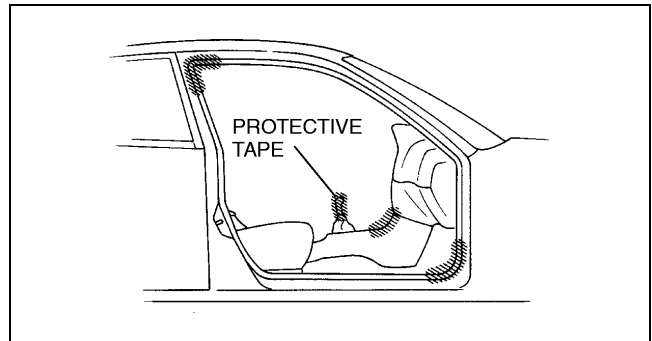


X3U917WB5

Caution

- To protect the trim, seaming welt, etc. from scratches when removing the headliner from the vehicle, affix protective tape to the console, shift lever knob and door frame.

12. Install in the reverse order of removal.

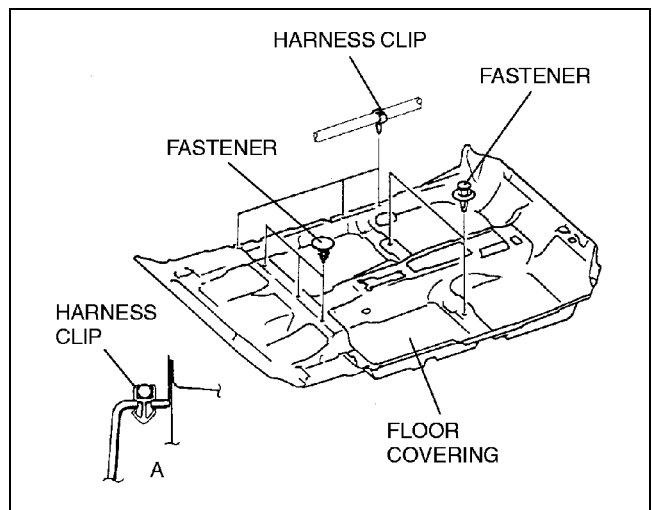


X3U917WB4

FLOOR COVERING REMOVAL/INSTALLATION

A3U091768670W01

1. Disconnect the negative battery cable.
2. Remove the front seats. (See 09-13-1 FRONT SEAT REMOVAL/INSTALLATION.)
3. Remove the rear seat cushion. (See 09-13-5 REAR SEAT REMOVAL/INSTALLATION.)
4. Remove the tire house trim. (See 09-17-13 TIRE HOUSE TRIM REMOVAL/INSTALLATION.)
5. Remove the dashboard. (See 09-17-1 DASHBOARD REMOVAL/INSTALLATION.)
6. Remove the front side trim. (See 09-17-13 FRONT SIDE TRIM REMOVAL/INSTALLATION.)
7. Remove the B-pillar lower trim. (See 09-17-10 B-PILLAR LOWER TRIM REMOVAL.) (See 09-17-11 B-PILLAR LOWER TRIM INSTALLATION.)
8. Remove the lower anchor of the front seat belt installation bolts.
9. Remove the selector cable if equipped with ATX. (See 05-18-3 SELECTOR LEVER REMOVAL/INSTALLATION.)
10. Remove the interlock cable if equipped with ATX. (See 05-18-3 SELECTOR LEVER REMOVAL/INSTALLATION.)
11. Remove the rear heat duct.
12. Remove the fasteners and clips A, then remove the floor covering.
13. Remove the floor covering from the vehicle through the passenger-side front door.
14. Install in the reverse order of removal.



X3U917WB6

09-18 LIGHTING SYSTEMS

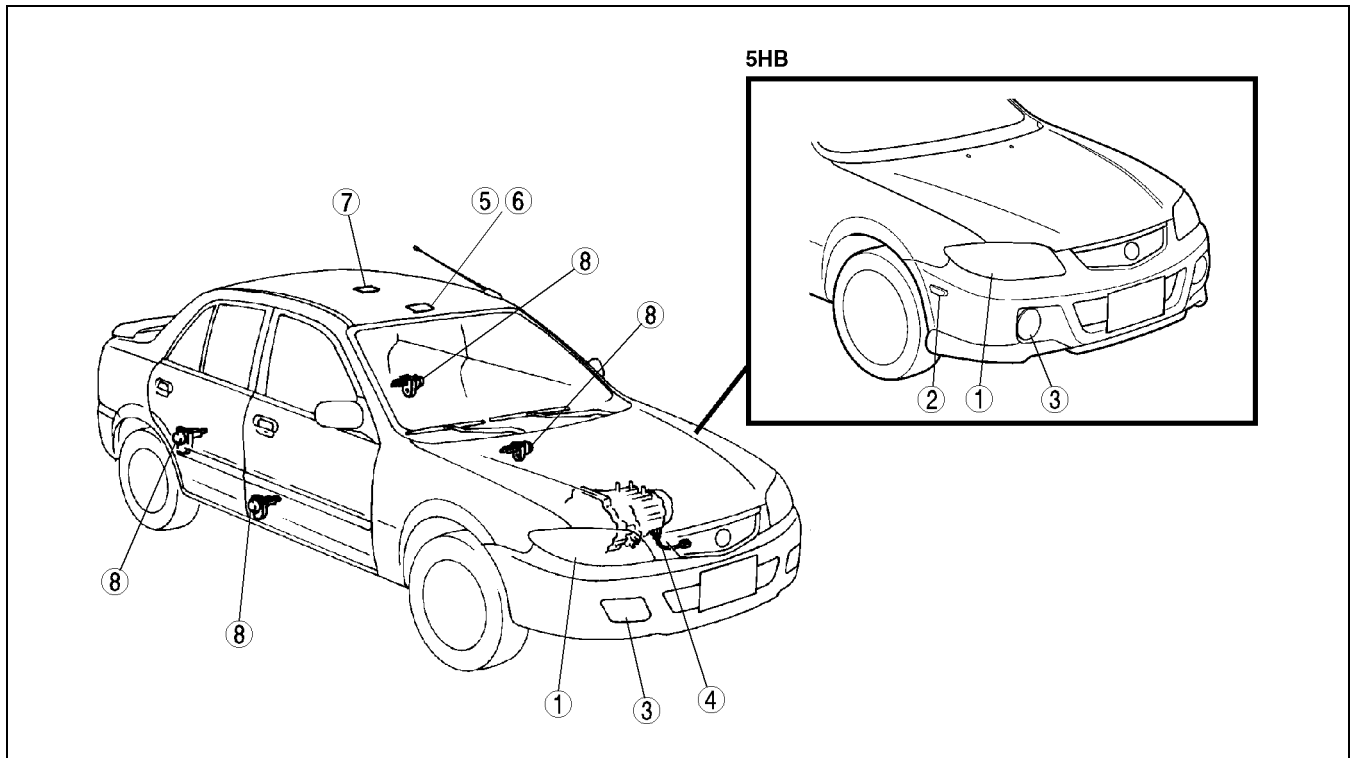
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LIGHTING SYSTEMS

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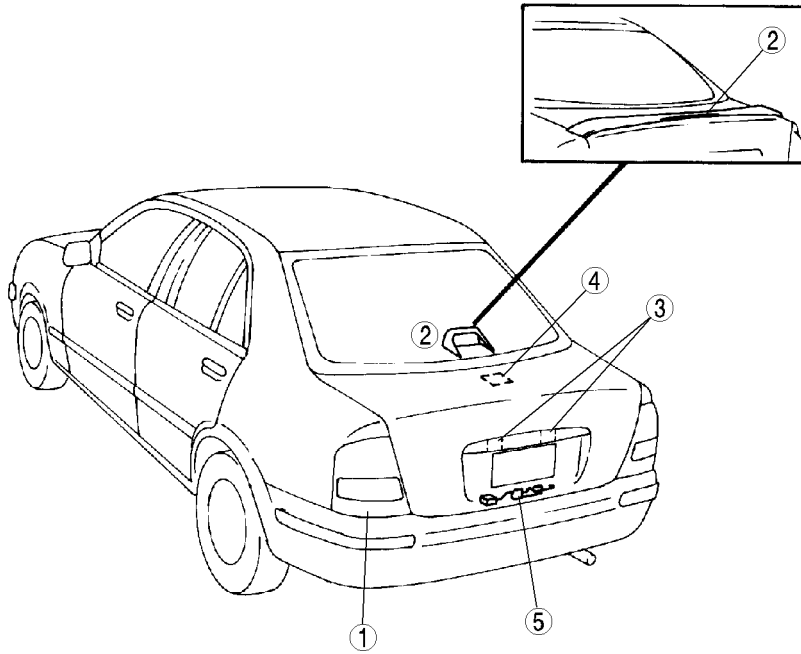
A3U0918W108

1	Front combination light (See 09-18-5 FRONT COMBINATION LIGHT REMOVAL/INSTALLATION) (See 09-18-5 HEADLIGHT ADJUSTMENT) (See 09-18-6 HEADLIGHT BULB REMOVAL/INSTALLATION) (See 09-18-7 FRONT TURN LIGHT/PARKING LIGHT BULB REMOVAL/INSTALLATION) (See 09-18-7 4SD)
2	Front side marker light (5HB) (See 09-18-7 5HB)
3	Front fog light (See 09-18-9 FRONT FOG LIGHT ADJUSTMENT) (See 09-18-8 FRONT FOG LIGHT REMOVAL/INSTALLATION)
4	Back-up light switch (See 09-18-15 BACK-UP LIGHT SWITCH REMOVAL/INSTALLATION) (See 09-18-15 BACK-UP LIGHT SWITCH INSPECTION)

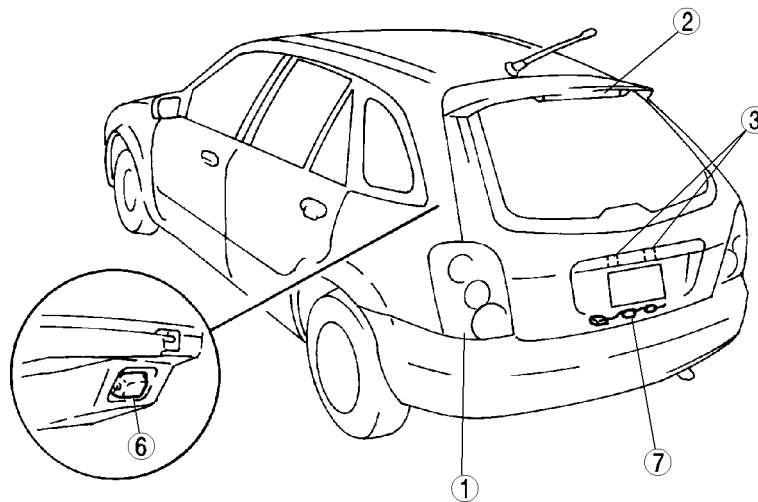
5	Interior and map light (See 09-18-20 INTERIOR AND MAP LIGHT REMOVAL/INSTALLATION) (See 09-18-20 INTERIOR AND MAP LIGHT INSPECTION)
6	Map light (See 09-18-21 MAP LIGHT REMOVAL/INSTALLATION) (See 09-18-21 MAP LIGHT INSPECTION)
7	Interior light (See 09-18-22 INTERIOR LIGHT REMOVAL/INSTALLATION) (See 09-18-22 INTERIOR LIGHT INSPECTION)
8	Door switch (See 09-18-24 DOOR SWITCH REMOVAL/INSTALLATION) (See 09-18-25 DOOR SWITCH INSPECTION)

LIGHTING SYSTEMS

4SD



5HB



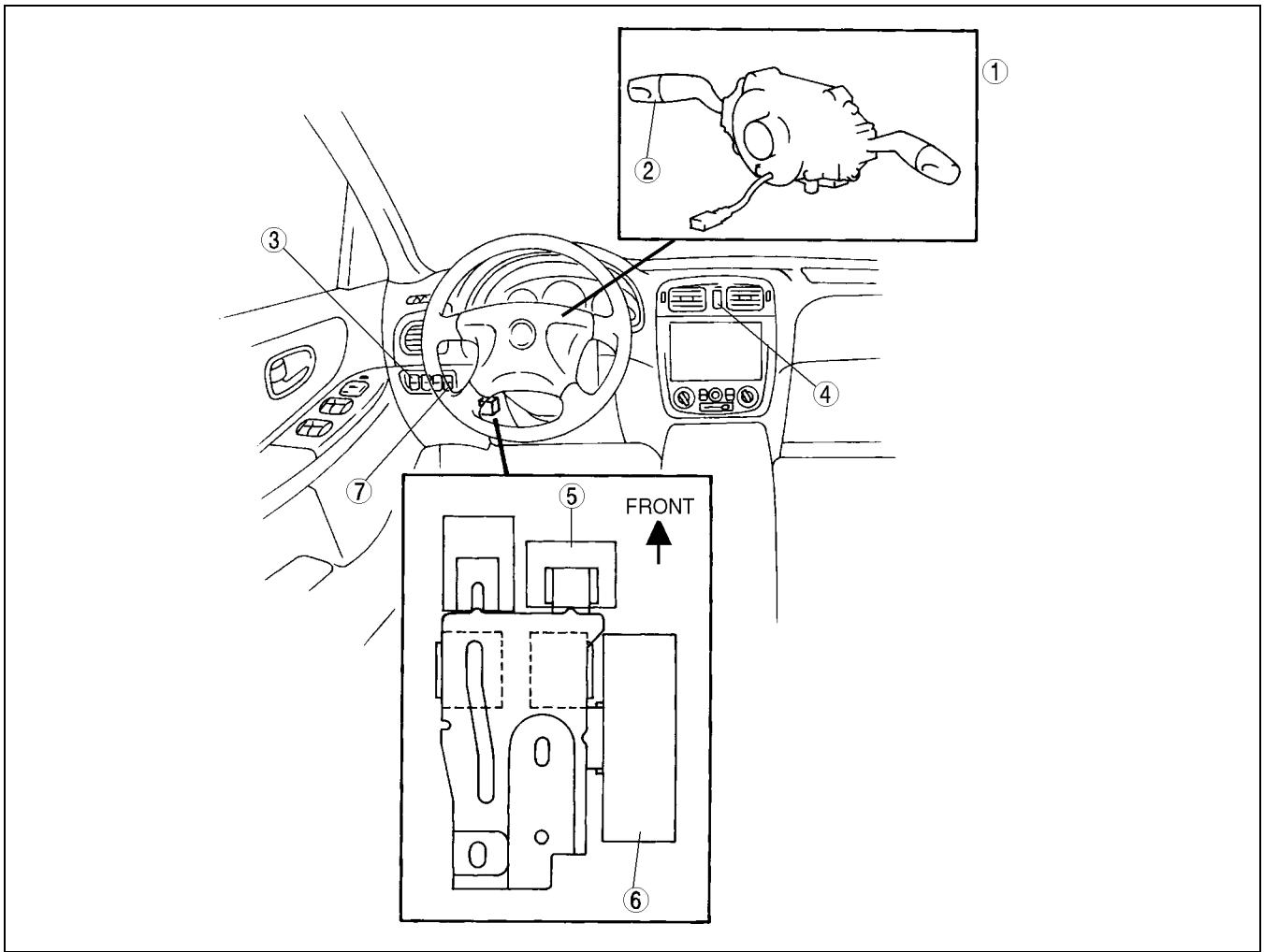
09-18

A3U0918W104

1	Rear combination light (See 09-18-10 REAR COMBINATION LIGHT REMOVAL/INSTALLATION)
2	High-mount brake light (See 09-18-11 HIGH-MOUNT BRAKE LIGHT REMOVAL/INSTALLATION)
3	License plate light (See 09-18-12 LICENSE PLATE LIGHT REMOVAL/INSTALLATION)
4	Trunk compartment light bulb (See 09-18-23 TRUNK COMPARTMENT LIGHT BULB REMOVAL/INSTALLATION)

5	Trunk compartment light switch (See 09-18-23 TRUNK COMPARTMENT LIGHT SWITCH INSPECTION)
6	Cargo compartment light (See 09-18-23 CARGO COMPARTMENT LIGHT REMOVAL/INSTALLATION) (See 09-18-24 CARGO COMPARTMENT LIGHT INSPECTION)
7	Cargo compartment light switch (See 09-18-24 CARGO COMPARTMENT LIGHT SWITCH INSPECTION)

LIGHTING SYSTEMS



Z3U0918W013

1	Combination switch (See 09-18-12 COMBINATION SWITCH REMOVAL/INSTALLATION) (See 09-18-13 COMBINATION SWITCH DISASSEMBLY/ASSEMBLY)
2	Light switch (See 09-18-13 LIGHT SWITCH REMOVAL/INSTALLATION) (See 09-18-13 LIGHT SWITCH INSPECTION)
3	Front fog light switch (See 09-18-14 FRONT FOG LIGHT SWITCH REMOVAL/INSTALLATION) (See 09-18-14 FRONT FOG LIGHT SWITCH INSPECTION)
4	Hazard warning switch (See 09-18-14 HAZARD WARNING SWITCH REMOVAL/INSTALLATION) (See 09-18-15 HAZARD WARNING SWITCH INSPECTION)

5	Flasher control module (See 09-18-16 FLASHER CONTROL MODULE REMOVAL/INSTALLATION) (See 09-18-16 FLASHER CONTROL MODULE INSPECTION)
6	DRL control module (See 09-18-18 DRL CONTROL MODULE REMOVAL/INSTALLATION (CANADA)) (See 09-18-18 DRL CONTROL MODULE INSPECTION (CANADA))
7	Panel light control switch (See 09-18-25 PANEL LIGHT CONTROL SWITCH REMOVAL/INSTALLATION) (See 09-18-26 PANEL LIGHT CONTROL SWITCH INSPECTION)

LIGHTING SYSTEMS

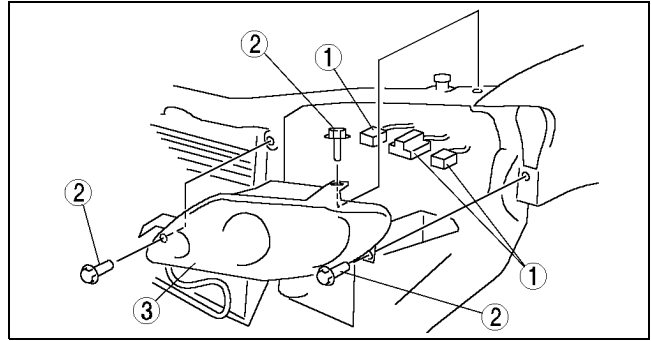
FRONT COMBINATION LIGHT REMOVAL/INSTALLATION

A3U091851060W01

1. Disconnect the negative battery cable.
2. Remove the front bumper. (See 09-10-5 FRONT BUMPER REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Connector
2	Bolt
3	Front combination light

4. Install in the reverse order of removal.
5. Adjust the headlight aiming. (See 09-18-5 HEADLIGHT ADJUSTMENT.)

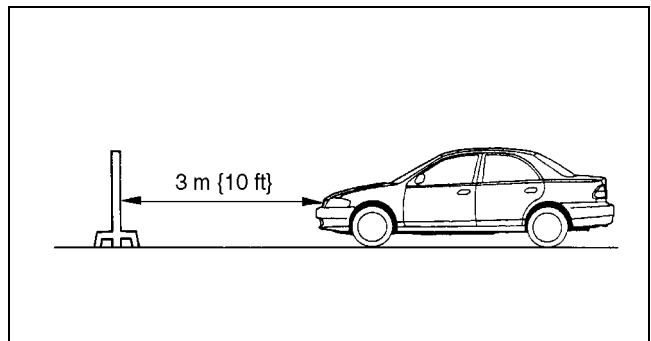


Y3J8112W111

HEADLIGHT ADJUSTMENT

A3U091851030W01

1. Adjust the tire air pressure to the specification.
2. Position the unloaded vehicle on a flat, level surface.
3. Seat one person in the driver's seat.
4. Position the vehicle straight ahead and perpendicular to a wall.
5. Set the headlights **3 m {10 ft}** from the wall.
6. While adjusting one headlight, disconnect the connector of the other.
7. Start the engine to charge the battery.
8. Turn on the low-beam headlight.

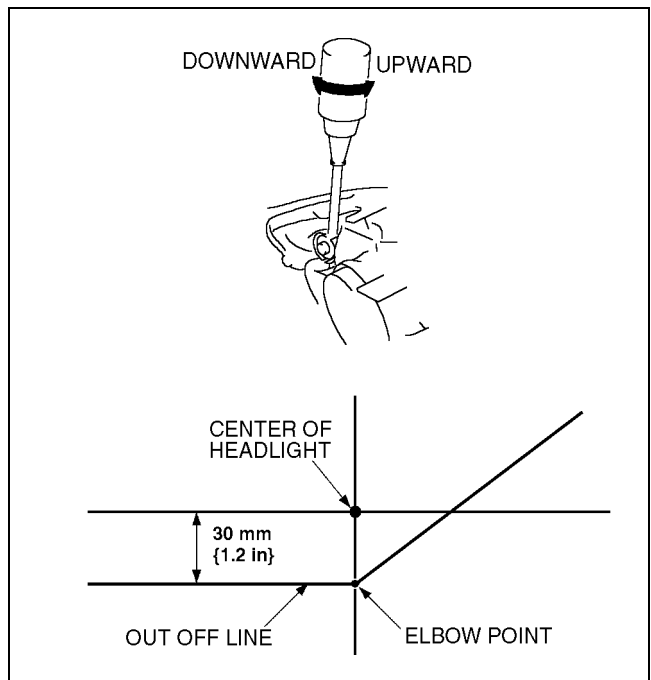


Z3U0918W006

9. Adjust the headlights by turning the adjusting screws as shown in the figure. Loosen the screws first, then tighten them.

Note

- If the adjusting screws are tightened first, then loosened, they will continue to loosen when the vehicle is in motion and may cause the headlights to become misaligned.



Z3U0918W001

LIGHTING SYSTEMS

A3U091851030W02

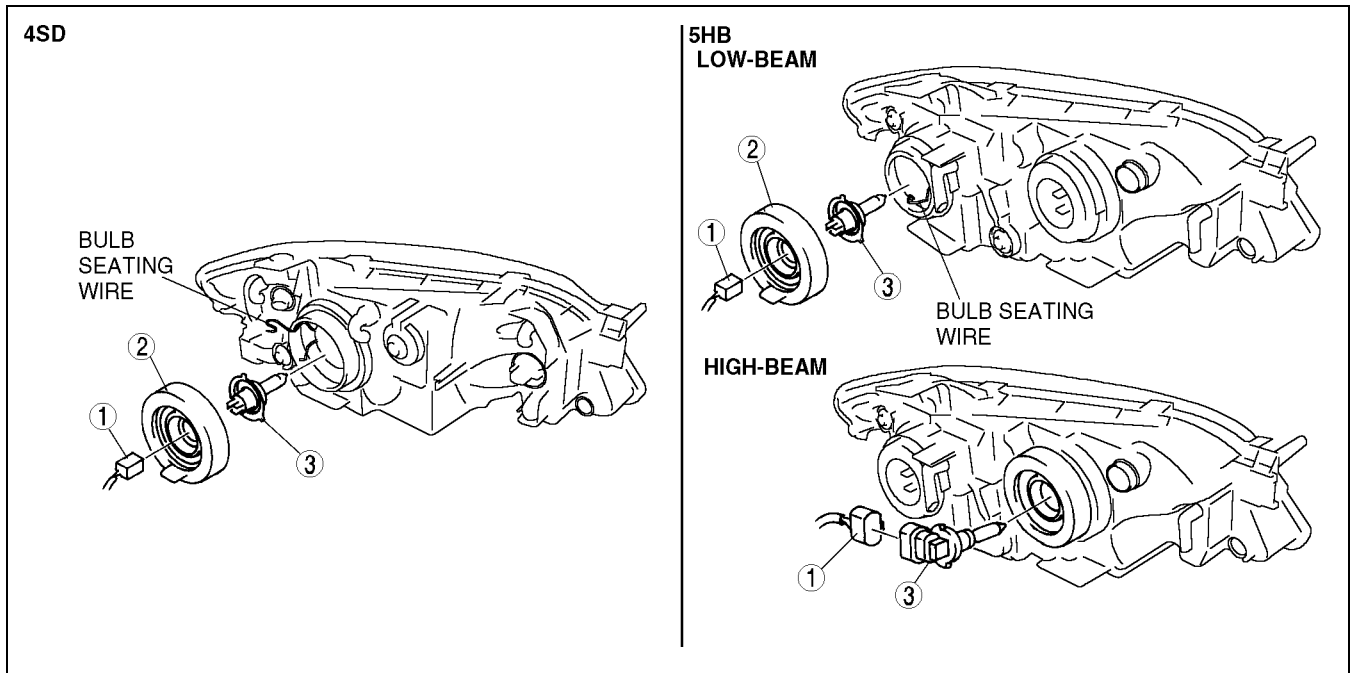
HEADLIGHT BULB REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.

Caution

- A halogen bulb generates extremely high heat when it is used. If the surface of the bulb is dirty, excessive heat will build up and the light's life will be shortened. When replacing the bulb, hold the metal flange, not the glass.

3. Install in the reverse order of removal.



A3U0918W101

1	Connector
2	Cover (See 09-18-6 Cover Installation Note)

3	Headlight bulb (See 09-18-6 Headlight Bulb Removal Note (4SD and 5HB Low-beam)) (See 09-18-6 Headlight Bulb Removal Note (5HB High-beam))
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Headlight Bulb Removal Note (4SD and 5HB Low-beam)

1. Release the bulb seating wire to remove the headlight bulb.

Headlight Bulb Removal Note (5HB High-beam)

1. Turn the bulb to remove the headlight bulb.

Cover Installation Note

1. Make sure the cover is seated properly to prevent the moisture from getting into the headlight housing.

LIGHTING SYSTEMS

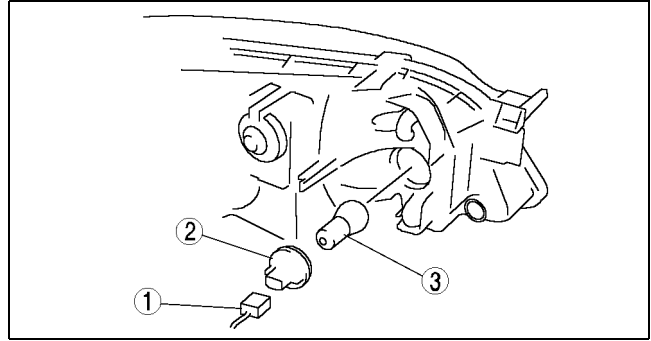
FRONT TURN LIGHT/PARKING LIGHT BULB REMOVAL/INSTALLATION

A3U091851050W01

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.

1	Connector
2	Socket
3	Front turn light/parking light bulb

3. Install in the reverse order of removal.



Y3J8112W107

FRONT SIDE MARKER LIGHT REMOVAL/INSTALLATION

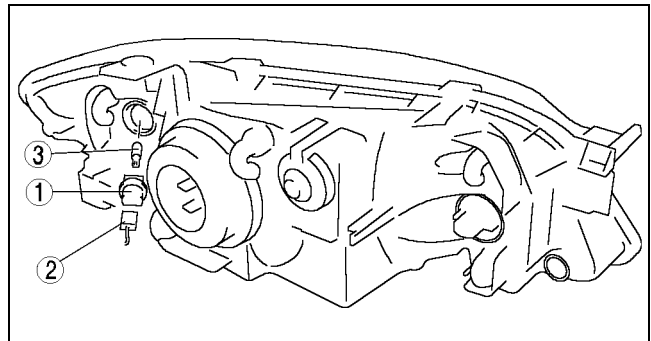
A3U091851120W01

4SD

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.

1	Socket
2	Connector
3	Front side marker light bulb

3. Install in the reverse order of removal.



Z3U0918W002

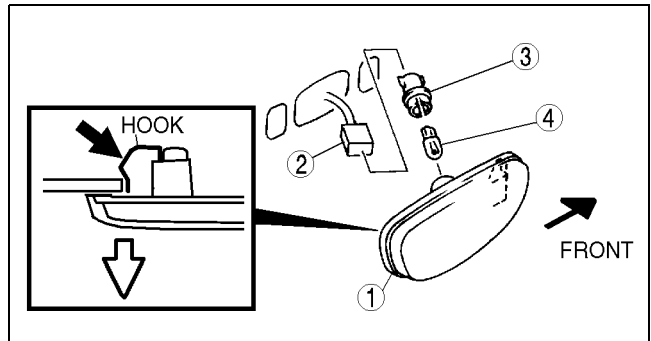
09-18

5HB

1. Disconnect the negative battery cable.
2. Remove the bolts and fasteners, and bend the splash shield down.
3. Remove in the order indicated in the table.

1	Front side marker light (See 09-18-7 Front side marker light removal note)
2	Connector
3	Socket
4	Front side marker light bulb

4. Install in the reverse order of removal.



A3U0918W112

Front side marker light removal note

1. Pull out the rear end of the front side marker light while pressing the hook.

LIGHTING SYSTEMS

FRONT FOG LIGHT REMOVAL/INSTALLATION

A3U091851680W01

4SD

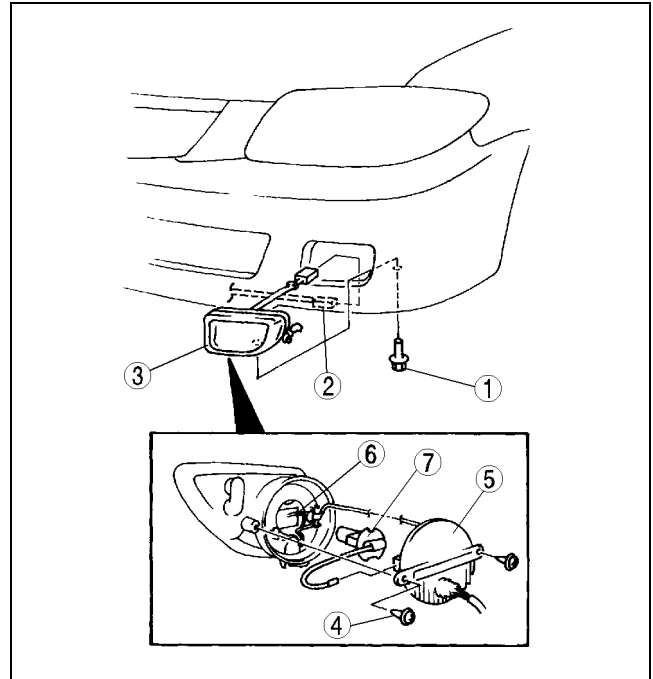
Caution

- A halogen bulb generates extremely high heat when it is used. If the surface of the bulb is dirty, excessive heat will build up and the bulb's life will be shortened. When replacing the bulb, hold the metal flange, not the glass.

1. Disconnect the negative battery cable.
2. Turn over the mud guard.
3. Remove in the order indicated in the table.

1	Bolt
2	Connector
3	Front fog light
4	Screw
5	Cover
6	Bulb pressing wire
7	Front fog light bulb

4. Install in the reverse order of removal.
5. Adjust the front fog light aiming. (See 09-18-9 FRONT FOG LIGHT ADJUSTMENT.)



Z3U0918W014

5HB

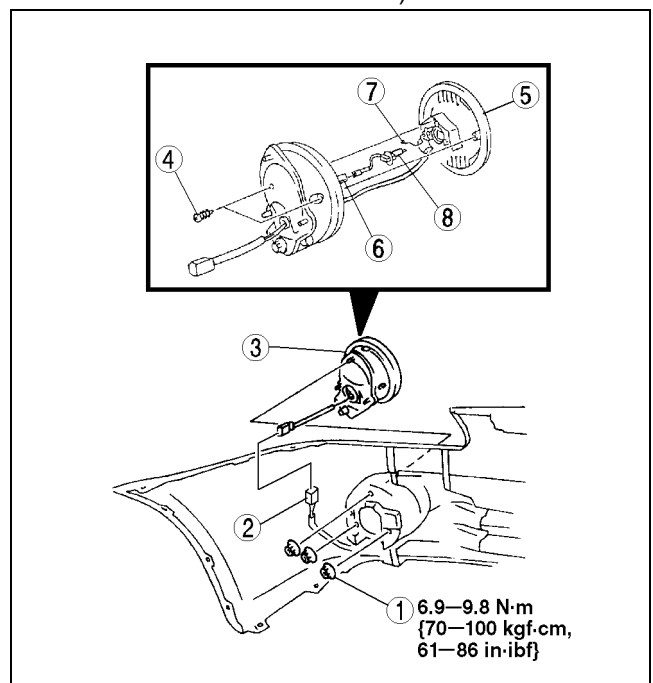
Caution

- A halogen bulb generates extremely high heat when it is used. If the surface of the bulb is dirty, excessive heat will build up and the bulb's life will be shortened. When replacing the bulb, hold the metal flange, not the glass.

1. Disconnect the negative battery cable.
2. Remove the front bumper. (See 09-10-5 FRONT BUMPER REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Nut
2	Connector
3	Front fog light
4	Screw
5	Front fog light unit
6	Connector
7	Bulb pressing wire
8	Front fog light bulb

4. Install in the reverse order of removal.
5. Adjust the front fog light aiming. (See 09-18-9 FRONT FOG LIGHT ADJUSTMENT.)



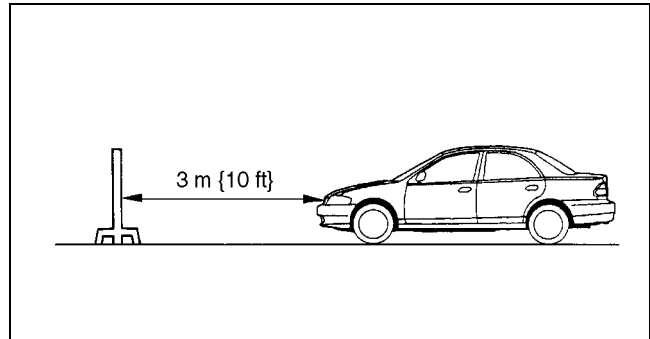
A3U0918W110

LIGHTING SYSTEMS

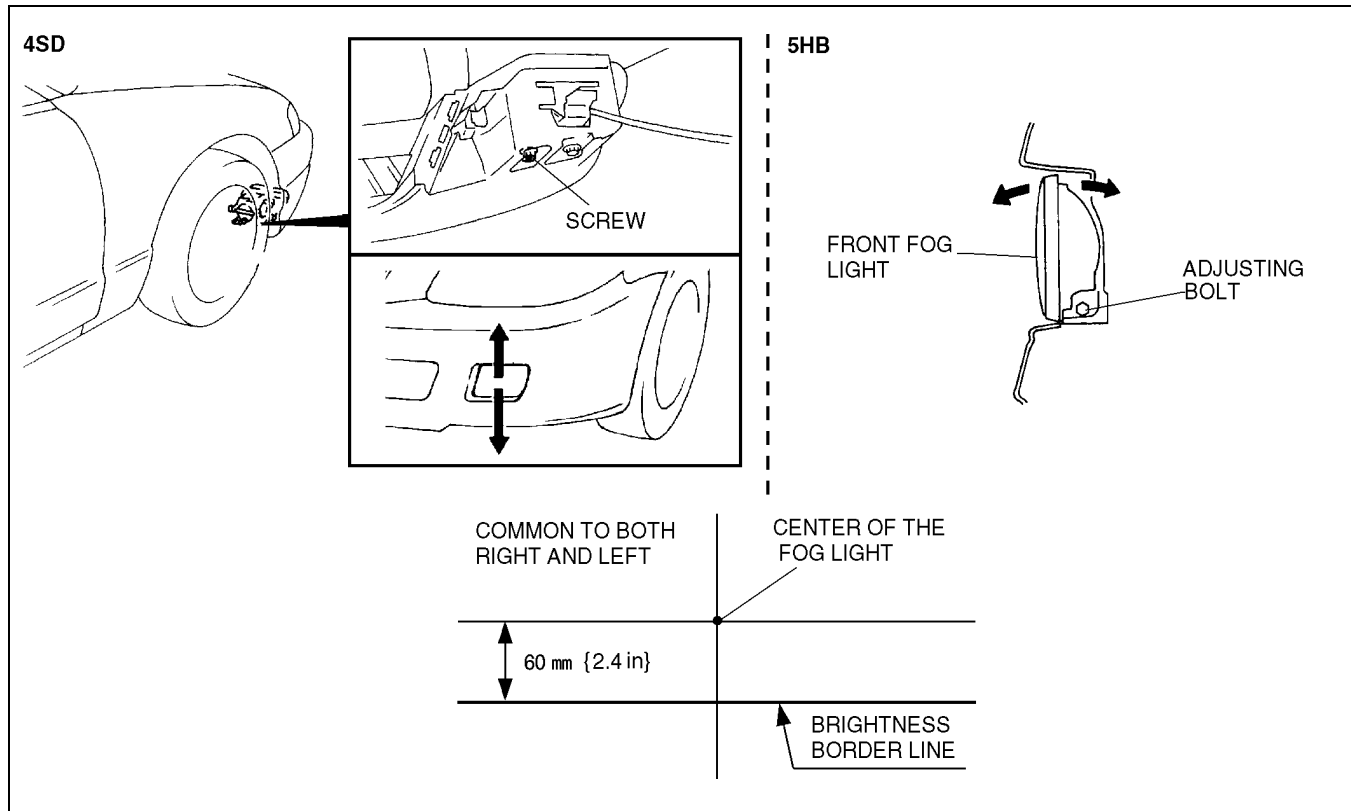
FRONT FOG LIGHT ADJUSTMENT

A3U091851680W02

1. Adjust the tire air pressure to the specification.
2. Position the unloaded vehicle on a flat, level surface.
3. Seat one person in the driver's seat.
4. Position the vehicle **3 m {10 ft}** in front of a white screen.
5. While adjusting one fog light, mask the other.
6. Start the engine to charge the battery.
7. Turn the front fog light on.
8. Peel off the mud guard.
9. Loosen the screw or bolts for the aim adjustment.
10. Move the front fog light in the direction of the arrows indicated in the figure and adjust the center of the front fog light to the position.



Z3U0918W006



09-18

A3U0918W111

11. Tighten the front fog light adjusting screw or bolts.

LIGHTING SYSTEMS

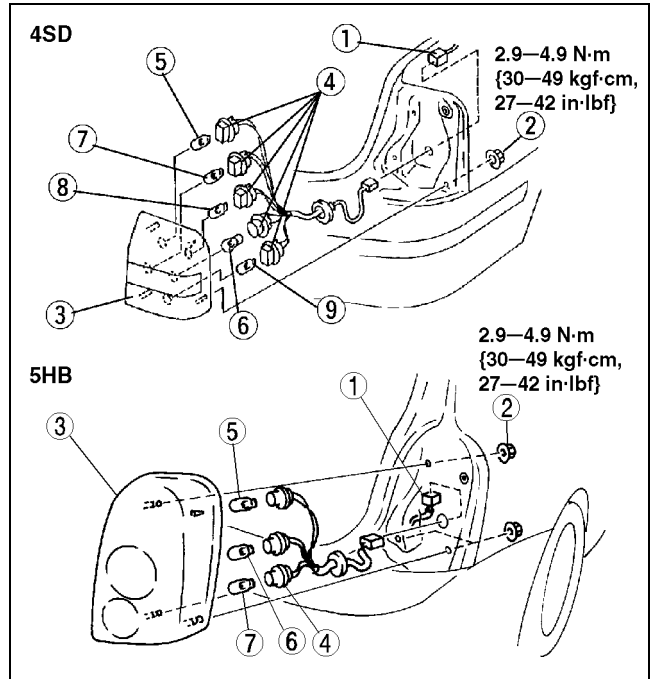
REAR COMBINATION LIGHT REMOVAL/INSTALLATION

A3U091851150W01

1. Disconnect the negative battery cable.
2. Remove the trunk side trim. (See 09-17-15 TRUNK SIDE TRIM REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Connector
2	Nut
3	Rear combination light
4	Socket (See 09-18-10 Socket Installation Note)
5	Brake light/taillight bulb
6	Rear turn light bulb
7	Back-up light bulb
8	Rear side marker light bulb (4SD)
9	Taillight bulb (4SD)

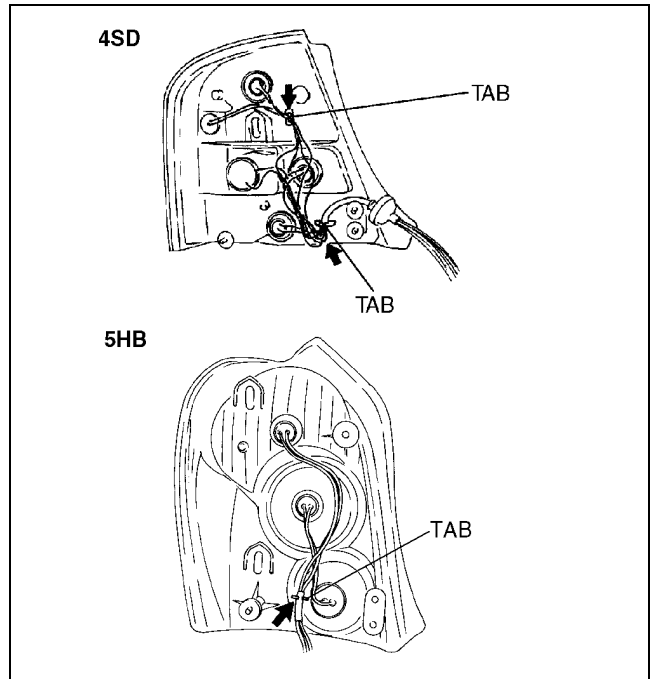
4. Install in the reverse order of removal.



A3U0918W107

Socket Installation Note

1. Hook the harness as shown in the figure.



A3U0918W106

LIGHTING SYSTEMS

HIGH-MOUNT BRAKE LIGHT REMOVAL/INSTALLATION

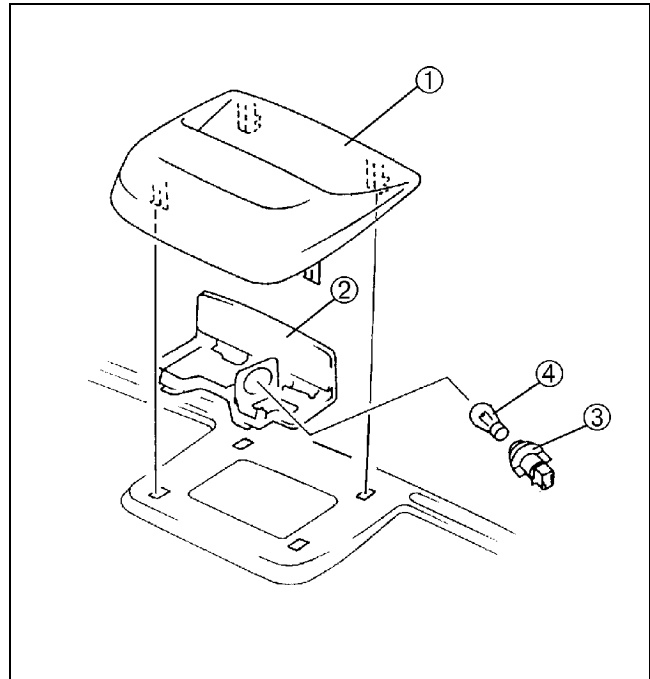
A3U091851580W01

In-Vehicle Type

1. Disconnect the negative battery cable.
2. Remove the rear package trim. (See 09–17–12 REAR PACKAGE TRIM REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	High-mount brake light
2	Lens
3	Socket
4	High-mount brake light bulb

4. Install in the reverse order of removal.



Y3U918WAM

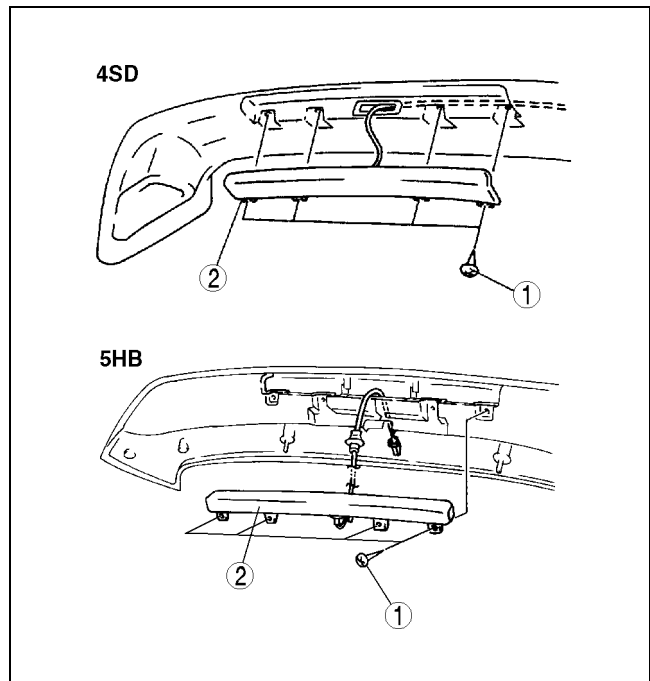
09–18

Rear Spoiler Type

1. Disconnect the negative battery cable.
2. Remove the rear spoiler. (See 09–16–8 REAR SPOILER REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Screw
2	High-mount brake light (See 09–18–12 High-mount brake light removal note (4SD))

4. Install in the reverse order of removal.

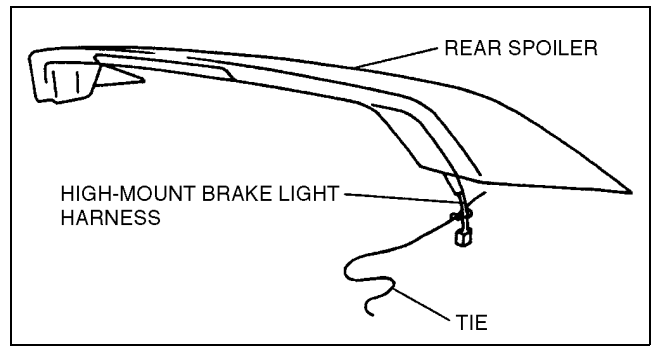


A3U0918W102

LIGHTING SYSTEMS

High-mount brake light removal note (4SD)

1. Tie a string to the end of the connector of the high-mount brake light beforehand so that the connector can be passed easily through the rear spoiler during installation.



Y3U918WAJ

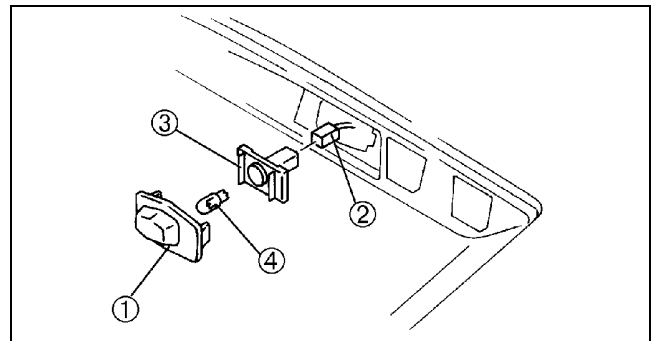
LICENSE PLATE LIGHT REMOVAL/INSTALLATION

A3U091851270W01

1. Disconnect the negative battery cable.
2. Remove the rear finisher. (See 09-16-3 REAR FINISHER REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	License plate light (See 09-18-12 License Plate Light Removal Note)
2	Connector
3	Socket
4	License plate light bulb

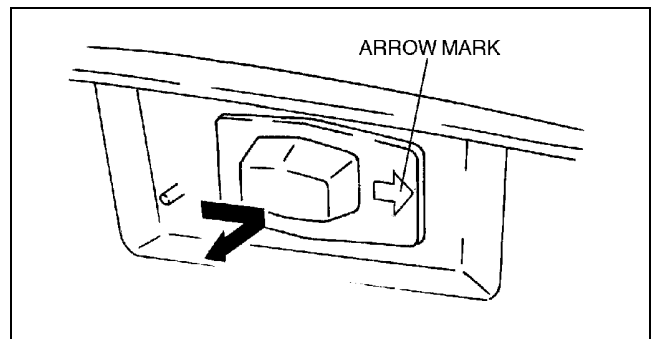
4. Install in the reverse order of removal.



X3U918WA7

License Plate Light Removal Note

1. Slide the license plate light to the arrow mark and remove it.



X3U918WA8

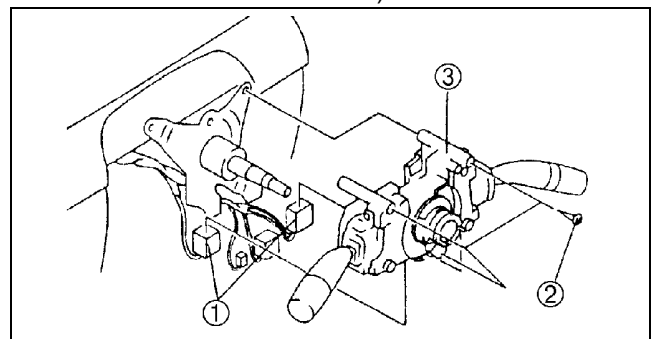
COMBINATION SWITCH REMOVAL/INSTALLATION

A3U091866120W01

1. Disconnect the negative battery cable.
2. Remove the driver-side air bag module. (See 08-10-5 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
3. Remove the steering wheel. (See 06-12-6 STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.)
4. Remove the column cover. (See 09-17-5 COLUMN COVER REMOVAL/INSTALLATION.)
5. Remove the clock spring. (See 08-10-9 CLOCK SPRING REMOVAL/INSTALLATION.)
6. Remove in the order indicated in the table.

1	Connector
2	Screw
3	Combination switch

7. Install in the reverse order of removal.



X3U918WA9

LIGHTING SYSTEMS

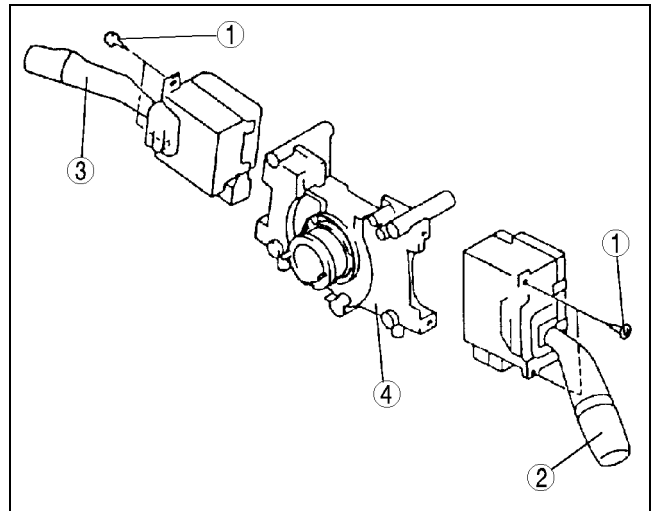
COMBINATION SWITCH DISASSEMBLY/ASSEMBLY

A3U091866120W02

1. Disassemble in the order indicated in the table.

1	Screw
2	Wiper lever
3	Light lever
4	Body

2. Assemble in the reverse order of disassembly.



Z3U0918W003

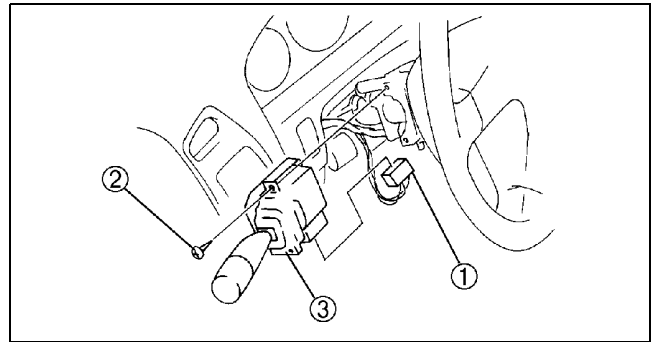
LIGHT SWITCH REMOVAL/INSTALLATION

A3U091866121W01

1. Disconnect the negative battery cable.
2. Remove the column cover. (See 09-17-5 COLUMN COVER REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Connector
2	Screw
3	Light lever

4. Install in the reverse order of removal.



X3U918WAB

LIGHT SWITCH INSPECTION

A3U091866121W02

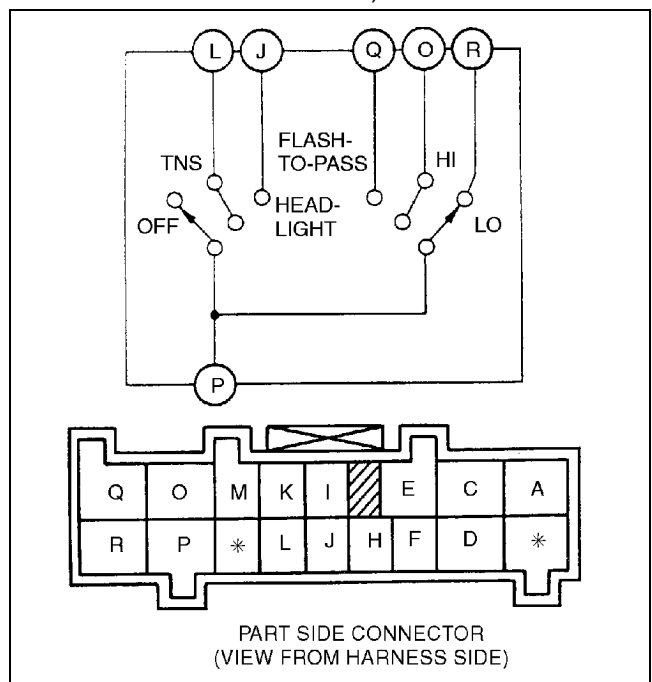
Headlight switch

1. Remove the light switch. (See 09-18-13 LIGHT SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the light switch terminals using an ohmmeter.
 - If not as specified, replace the light switch.

○—○ : Continuity

Switch position			Terminal					
Light	Dimmer	Flash-to-pass	J	L	P	O	Q	R
OFF	-	Off						
		On			○—○	○—○		
TNS	-	Off		○—○				
		On		○—○	○—○	○—○		
Head-light	LO	Off	○—○	○—○				○—○
		On	○—○	○—○	○—○	○—○		
	HI	-	○—○	○—○	○—○			

Y3U918WAN



PART SIDE CONNECTOR
(VIEW FROM HARNESS SIDE)

Y3U918WAO

LIGHTING SYSTEMS

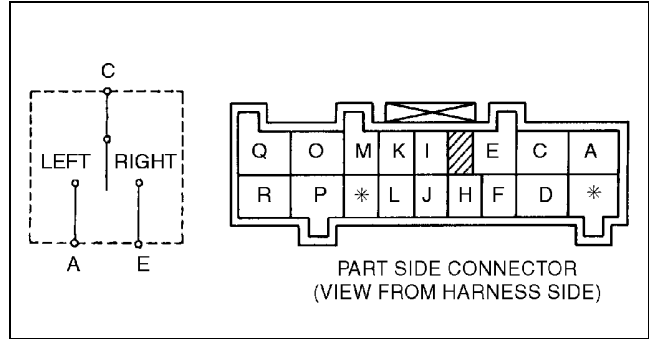
Turn switch

1. Remove the light switch. (See 09-18-13 LIGHT SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the light switch terminals using an ohmmeter.
 - If not as specified, replace the light switch.

○—○ : Continuity

Switch position	Terminal		
	C	A	E
Left	○—○		
Off			
Right			○—○

X3U918WBG

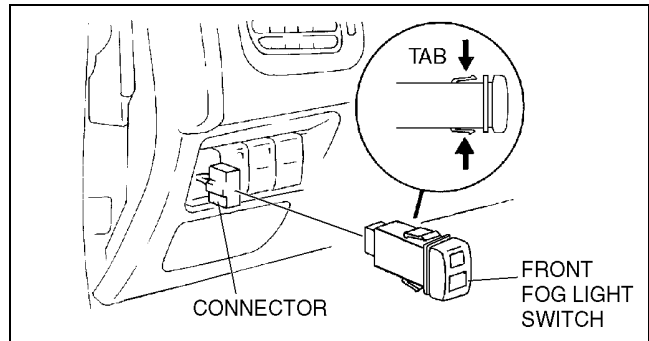


Y3U918WA1

FRONT FOG LIGHT SWITCH REMOVAL/INSTALLATION

A3U091866402W01

1. Disconnect the negative battery cable.
2. Remove the left side side panel from the dashboard.
3. Compress the tabs of the front fog light switch and pull the switch out of the dashboard.
4. Disconnect the connector to remove the front fog light switch.
5. Install in the reverse order of removal.



Z3U0918W009

FRONT FOG LIGHT SWITCH INSPECTION

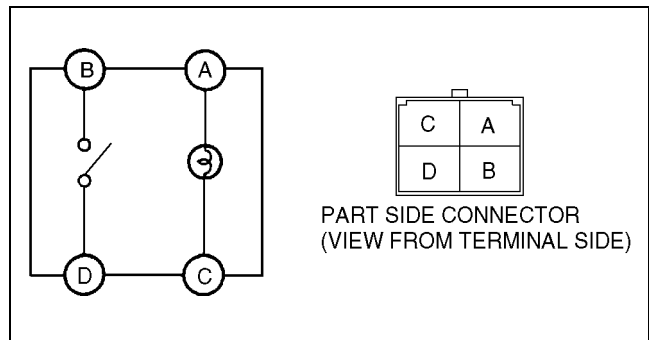
A3U091866402W02

1. Remove the front fog light switch. (See 09-18-14 FRONT FOG LIGHT SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the front fog light switch terminals using an ohmmeter.
 - If not as specified, replace the front fog light switch.

○—○ : Continuity ○○ : Bulb

Switch position	Terminal			
	A	C	B	D
Off	○○			
On	○○		○—○	

Z3U0918W008

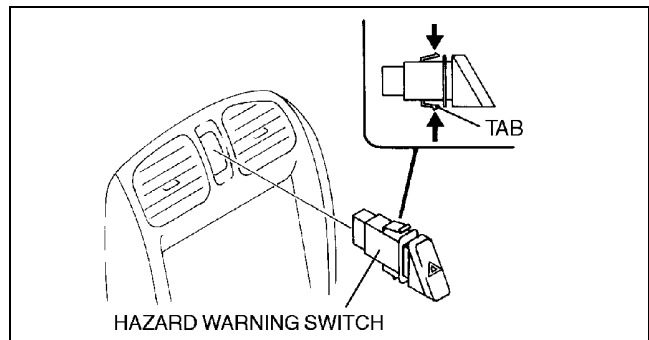


Z3U0918W007

HAZARD WARNING SWITCH REMOVAL/INSTALLATION

A3U091866401W01

1. Disconnect the negative battery cable.
2. Remove the center panel. (See 09-17-4 CENTER PANEL REMOVAL/INSTALLATION.)
3. Grasp the tabs of the hazard warning switch and pull it forward to remove it.
4. Install in the reverse order of removal.



Y3U918WAP

LIGHTING SYSTEMS

HAZARD WARNING SWITCH INSPECTION

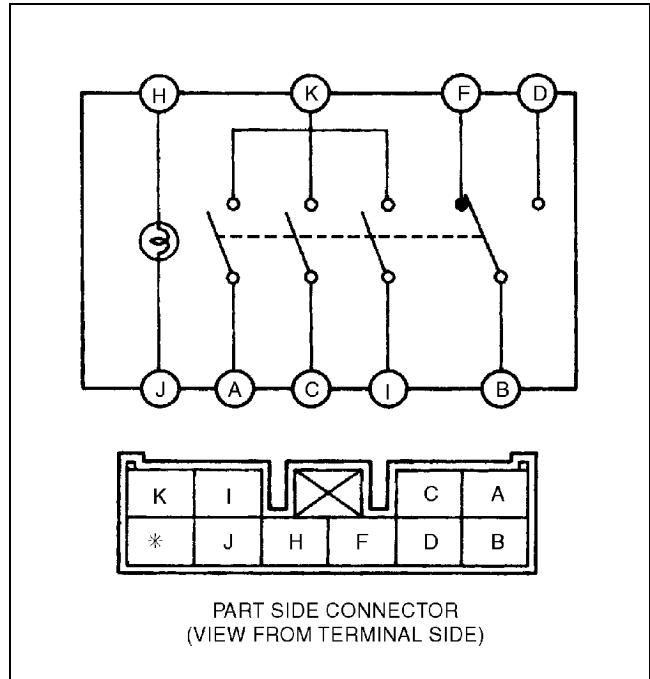
A3U091866401W02

1. Remove the hazard warning switch. (See 09-18-14 HAZARD WARNING SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the hazard warning switch terminals using an ohmmeter.
 - If not as specified, replace the hazard warning switch.

○—○ : Continuity ○⊕○ : Bulb

Switch position	Terminal								
	F	D	B	A	C	I	K	H	J
OFF	○		○					○⊕○	○⊕○
ON		○	○	○	○	○	○	○⊕○	○⊕○

X3U918WBH



Y3U918WA2

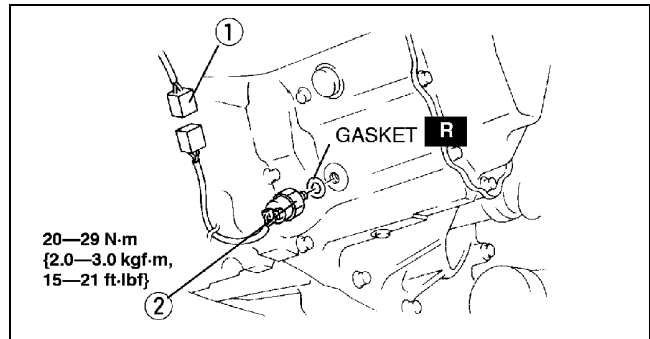
BACK-UP LIGHT SWITCH REMOVAL/INSTALLATION

A3U091817640W01

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.

1	Connector
2	Back-up light switch

3. Install in the reverse order of removal.



X3U918WAG

BACK-UP LIGHT SWITCH INSPECTION

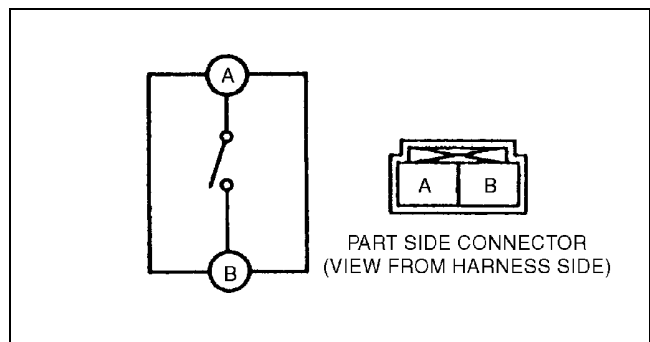
A3U091817640W02

1. Disconnect the back-up light switch connector.
2. Inspect for continuity between the back-up light switch terminals using an ohmmeter.
 - If not as specified, replace the back-up light switch.

○—○ : Continuity

Shift lever position	Terminal	
	A	B
Reverse	○—○	○—○
Other		

X3U918WBJ



Y3U918WA3

LIGHTING SYSTEMS

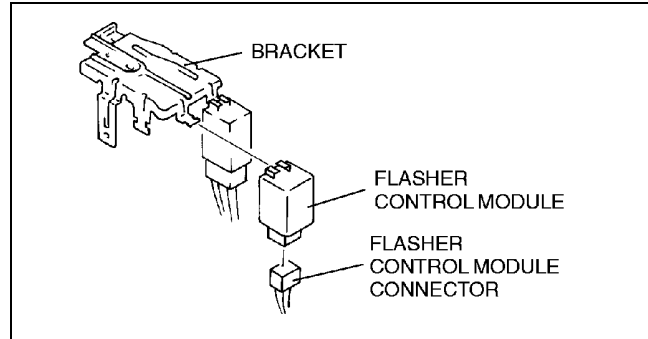
FLASHER CONTROL MODULE REMOVAL/INSTALLATION

A3U091866830W01

Note

- Because the lock section of the control module is damaged easily, do not remove the control module from the bracket unless replacement is necessary. Always perform an inspection of the flasher control module before removal.

1. Disconnect the negative battery cable.
2. Remove the bracket.
3. Disconnect the flasher control module connector.
4. Remove the flasher control module by prying the lock section of the upper part with a flathead screwdriver.
5. Install in the reverse order of removal.



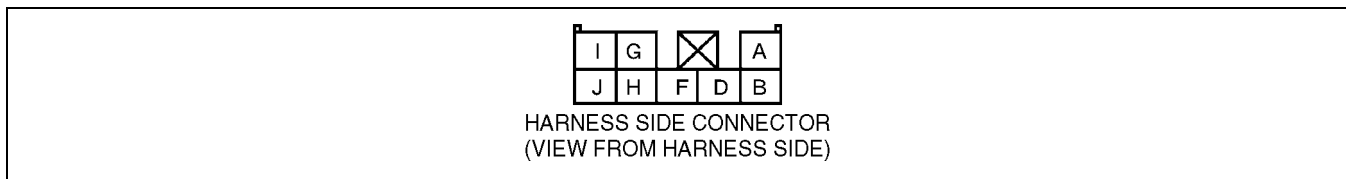
X3U918WJA1

FLASHER CONTROL MODULE INSPECTION

A3U091866830W02

1. Remove the bracket and pull it toward you.
2. Measure the voltage at the flasher control module terminals as indicated below.
3. Disconnect the flasher control module connector before inspecting for continuity at terminal F.
 - If not as specified, inspect the parts listed under "Action."
 - If the parts and wiring harnesses are okay but the system still does not work properly, replace the flasher control module.

Terminal Voltage List (Reference)



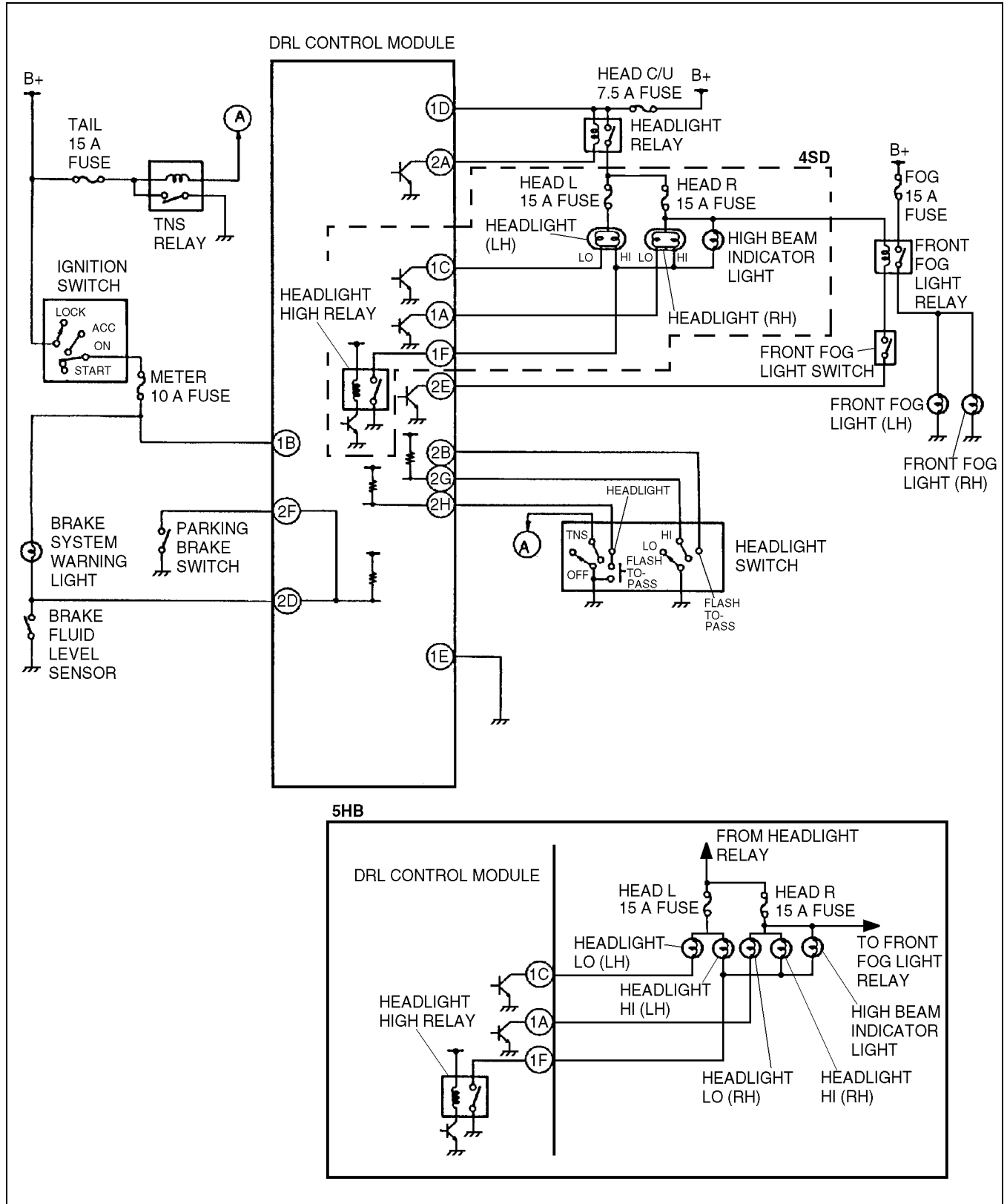
ZLU918WA6

Terminal	Signal	Connected to	Test condition	Voltage (V)/ Continuity	Action
A	Power supply	HAZARD 15 A fuse	Under any condition	B+	<ul style="list-style-type: none"> • Inspect HAZARD 15 A fuse • Inspect related harness
B	—	—	—	—	—
D	Turn signal flasher (LH)	Turn signal light (LH)	Turn signal light (LH) flashes.	Alternates below 1.0 and B+	<ul style="list-style-type: none"> • Inspect turn signal light (LH) • Inspect related harness
			Hazard warning switch at on position.		
			Other	Below 1.0	
F	Flasher control module ground	GND	Constant: inspect for continuity to ground.	Yes	<ul style="list-style-type: none"> • Inspect GND
G	Turn signal flasher (RH)	Turn signal light (RH)	Turn signal light (RH) flashes.	Alternates below 1.0 and B+	<ul style="list-style-type: none"> • Inspect turn signal light (RH) • Inspect related harness
			Hazard warning switch at on position.		
			Other	Below 1.0	
H	Hazard warning on	Hazard warning switch	Hazard warning switch at on position.	Below 1.0	<ul style="list-style-type: none"> • Inspect hazard warning switch (See 09–18–15 HAZARD WARNING SWITCH INSPECTION) • Inspect related harness
			Hazard warning switch at off position.	B+	
I	Turn switch on/off (RH)	Combination switch (light switch)	Ignition switch is at ON and turn switch (RH) on.	B+	<ul style="list-style-type: none"> • Inspect light switch (See 09–18–13 LIGHT SWITCH INSPECTION) • Inspect TURN 10 A fuse • Inspect related harness
			Other	Below 1.0	
J	Turn switch on/off (LH)	Combination switch (light switch)	Ignition switch is at ON and turn switch (LH) on.	B+	<ul style="list-style-type: none"> • Inspect light switch (See 09–18–13 LIGHT SWITCH INSPECTION) • Inspect TURN 10 A fuse • Inspect related harness
			Other	Below 1.0	

LIGHTING SYSTEMS

DAYTIME RUNNING LIGHT (DRL) SYSTEM WIRING DIAGRAM

A3U091867750W01



09-18

A3U0918W105

LIGHTING SYSTEMS

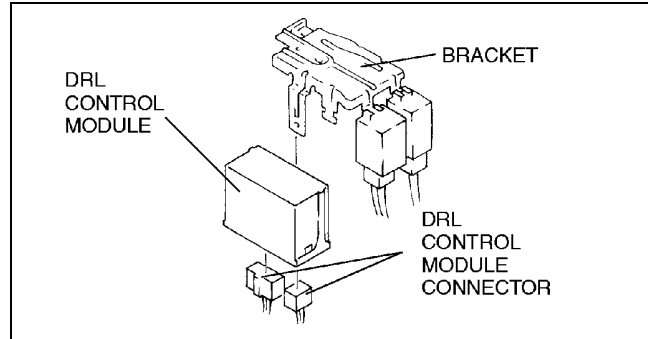
DRL CONTROL MODULE REMOVAL/INSTALLATION (CANADA)

A3U091867750W02

Note

- Because the lock section of the control module is damaged easily, do not remove the control module from the bracket unless replacement is necessary. Always perform an inspection of the DRL control module before removal.

- Remove the negative battery cable.
- Remove the bracket.
- Disconnect the DRL control module connector.
- Remove the DRL control module by prying the lock section of the side part with a flathead screwdriver.
- Install in the reverse order of removal.



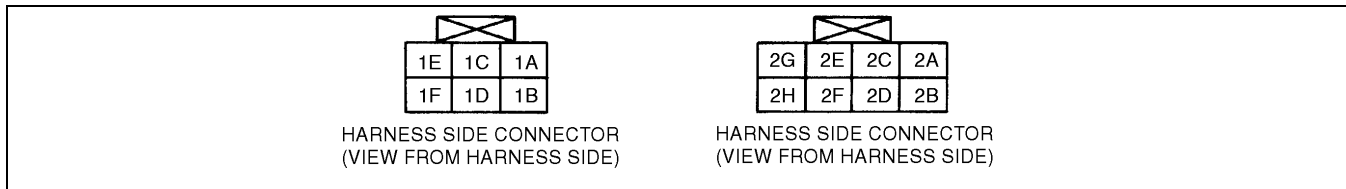
X3U918WAL

DRL CONTROL MODULE INSPECTION (CANADA)

A3U091867750W03

- Remove the bracket and pull it toward you.
- Measure the voltage at the DRL control module terminals as indicated below.
- Disconnect the DRL control module connector before inspecting for continuity at terminal 1E.
 - If not as specified, inspect the parts listed under "Action."
 - If the parts and wiring harnesses are okay but the system still does not work properly, replace the DRL control module.

Terminal Voltage List (Reference)



Y3U918WA7

Terminal	Signal	Connected to	Test condition		Voltage (V)/ Continuity	Action
			Headlight switch at headlight position	Dimmer switch at high beam position		
1A	RH headlight operation (low beam)	RH headlight (low beam)	Headlight switch at headlight position	4SD	B+	<ul style="list-style-type: none"> Inspect HEAD R 15 A fuse Inspect RH headlight Inspect related harness
				5HB	Below 1.5	
			Headlight switch at OFF or TNS position			
1B	IG1	METER 10 A fuse	Ignition switch at ON position		B+	<ul style="list-style-type: none"> Inspect METER 10 A fuse Inspect related harness
			Ignition switch at LOCK or ACC position		Below 1.0	
1C	LH headlight operation (low beam)	LH headlight (low beam)	Headlight switch at headlight position	Dimmer switch at high beam position	4SD	<ul style="list-style-type: none"> Inspect HEAD L 15 A fuse Inspect LH headlight Inspect related harness
				5HB	Below 1.5	
			Headlight switch at OFF or TNS position			
1D	Power supply	HEAD C/U 7.5 A fuse	Under any condition		B+	<ul style="list-style-type: none"> Inspect HEAD C/U 7.5 A fuse Inspect related harness
1E	DRL control module ground	GND	Constant: inspect for continuity to ground		Yes	<ul style="list-style-type: none"> Inspect related harness

LIGHTING SYSTEMS

Terminal	Signal	Connected to	Test condition		Voltage (V)/ Continuity	Action
1F	Headlight operation (high beam)	Headlight (high beam)	Headlight switch at headlight position	Dimmer switch at high beam position	Below 1.0	<ul style="list-style-type: none"> Inspect headlight Inspect HEAD R 15 A fuse Inspect HEAD L 15 A fuse Inspect related harness
				Dimmer switch at low beam position	B+	
			Headlight switch at OFF or TNS position		Below 1.0	
2A	Headlight relay operation	Headlight relay	Headlight switch at headlight position		Below 1.0	<ul style="list-style-type: none"> Inspect headlight relay (See 09-21-5 RELAY INSPECTION) Inspect related harness
			Headlight switch at OFF or TNS position		B+	
2B	Flash-to-pass on/off	Headlight switch	Flash-to-pass activated		Below 1.0	<ul style="list-style-type: none"> Inspect combination switch Inspect related harness
			Flash-to-pass not activated		B+	
2C	—	—	—		—	—
2D	Brake system warning light operation	<ul style="list-style-type: none"> Brake system warning light Brake fluid level sensor 	Ignition switch at ON position	Brake fluid level is below MIN.	Below 1.0	<ul style="list-style-type: none"> Inspect METER 10 A fuse Inspect instrument cluster (See 09-22-4 INSTRUMENT CLUSTER INSPECTION) Inspect brake fluid level sensor (See 04-11-9 FLUID LEVEL SENSOR INSPECTION) Inspect related harness
				Brake fluid level is above MIN.	B+	
			Ignition switch at LOCK or ACC position		Below 1.0	
2E	Front fog light relay operation	Front fog light switch	<ul style="list-style-type: none"> Headlight switch at headlight position Front fog light switch on 	Dimmer switch at high beam position	B+	<ul style="list-style-type: none"> Inspect front fog light relay (See 09-21-5 RELAY INSPECTION) Inspect related harness
				Dimmer switch at low beam position	Below 1.5	
2F	Parking brake lever pulled/released	Parking brake switch	Parking brake lever pulled		Below 1.0	<ul style="list-style-type: none"> Inspect parking brake switch Inspect related harness
			Parking brake lever released		B+	
2G	High beam on/off	Headlight switch	Dimmer switch at high beam position		Below 1.0	<ul style="list-style-type: none"> Inspect combination switch Inspect related harness
			Dimmer switch at low beam position		B+	
2H	Headlight switch on/off	Headlight switch	Headlight switch at headlight position		Below 1.0	<ul style="list-style-type: none"> Inspect combination switch Inspect related harness
			Headlight switch at OFF or TNS position		B+	

LIGHTING SYSTEMS

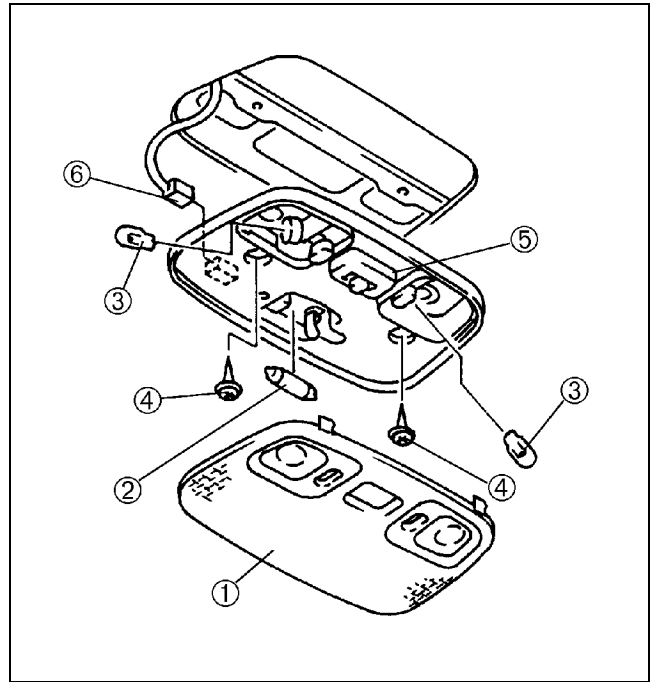
INTERIOR AND MAP LIGHT REMOVAL/INSTALLATION

A3U091851310W01

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.

1	Lens (See 09-18-20 Lens Removal Note)
2	Interior light bulb
3	Map light bulb
4	Screw
5	Interior and map light
6	Connector

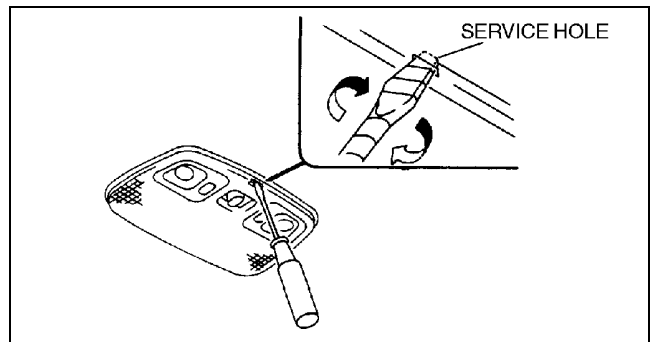
3. Install in the reverse order of removal.



X3U918WAW

Lens Removal Note

1. Insert a tape-wrapped, flathead screwdriver into the service hole.
2. Twist the flathead screwdriver in the direction indicated by the arrow to remove the lens.



X3U918WAX

INTERIOR AND MAP LIGHT INSPECTION

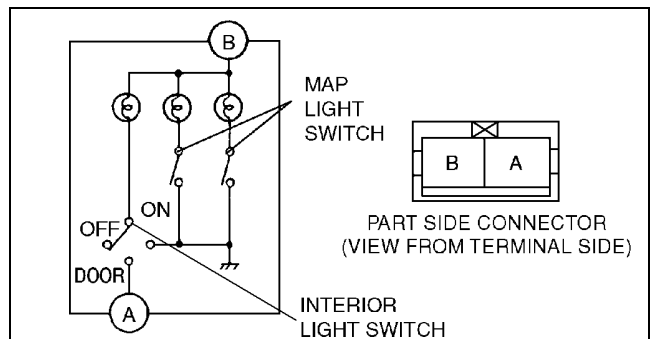
A3U091851310W02

1. Remove the interior and map light. (See 09-18-20 INTERIOR AND MAP LIGHT REMOVAL/INSTALLATION.)
2. Inspect for continuity between the interior and map light terminals using an ohmmeter.
 - If not as specified, replace the interior and map light.

○—○ : Bulb

Switch position	Terminal		
	A	B	Body GND
Map light switch	ON	○—○	○—○
	OFF		
Interior light switch	ON	○—○	○—○
	DOOR	○—○	
	OFF		

Y3U918WAK



Z3U0918W004

LIGHTING SYSTEMS

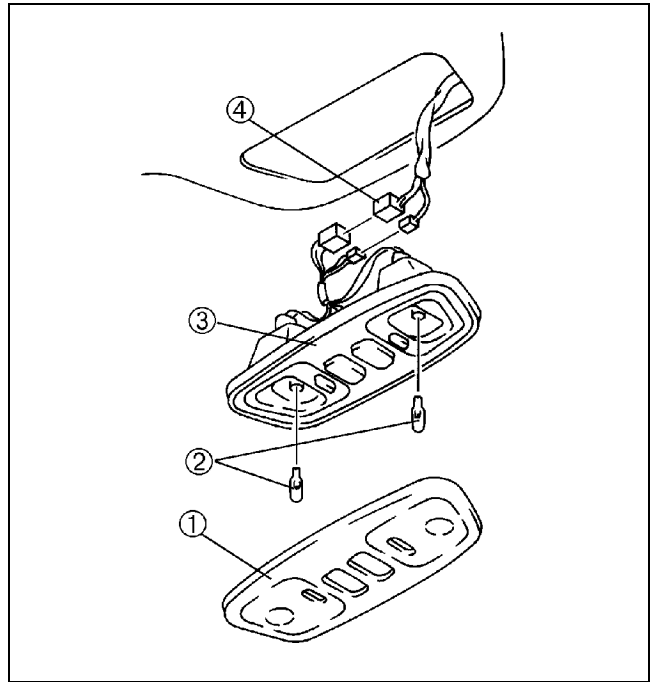
MAP LIGHT REMOVAL/INSTALLATION

A3U091851310W03

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.

1	Lens (See 09-18-21 Lens Removal Note)
2	Map light bulb
3	Map light
4	Connector

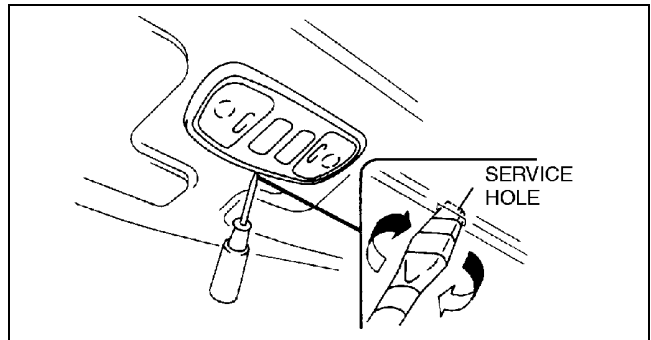
3. Install in the reverse order of removal.



X3U918WAZ

Lens Removal Note

1. Insert a tape-wrapped, flathead screwdriver into the service hole.
2. Twist the flathead screwdriver in the direction indicated by the arrow to remove the lens.



X3U918WB0

09-18

MAP LIGHT INSPECTION

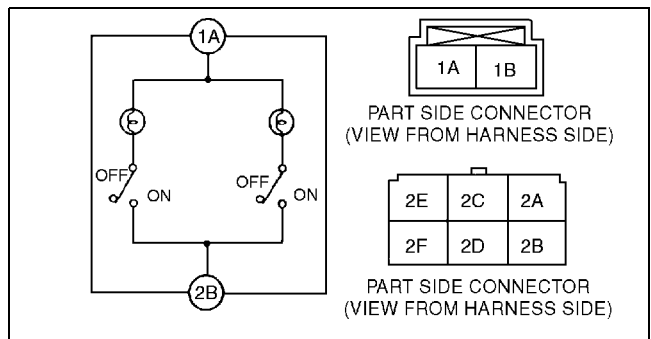
A3U091851310W04

1. Remove the map light. (See 09-18-21 MAP LIGHT REMOVAL/INSTALLATION.)
2. Inspect for continuity between the map light terminals using an ohmmeter.
 - If not as specified, replace the map light.

○ ⊕ ○ : Bulb

Switch position	Terminal	
	1A	2B
ON	○ — ⊕ — ○	
OFF		

X3U918WBN



Y3U918WAB

LIGHTING SYSTEMS

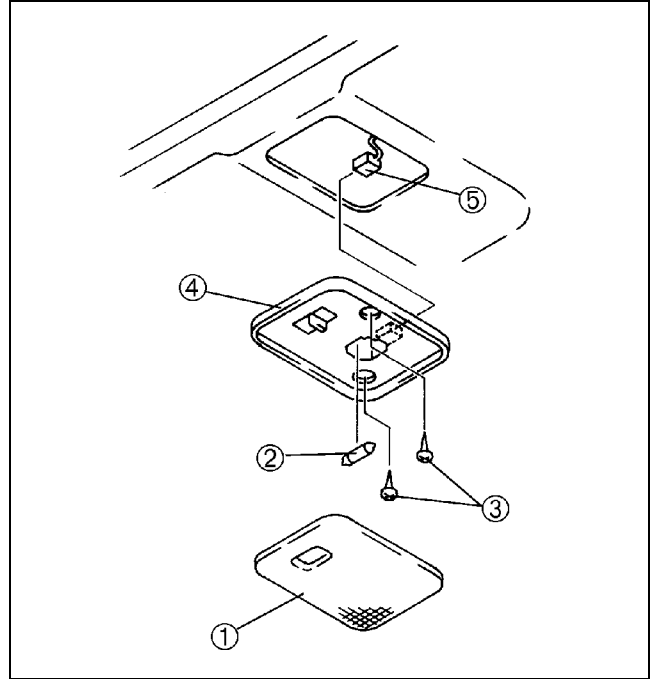
A3U091869970W01

INTERIOR LIGHT REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.

1	Lens (See 09-18-22 Lens Removal Note)
2	Interior light bulb
3	Screw
4	Interior light
5	Connector

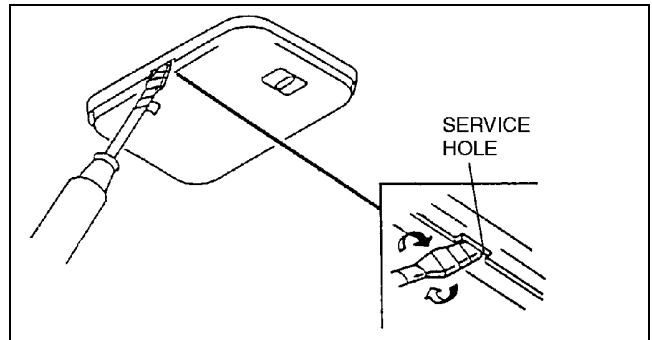
3. Install in the reverse order of removal.



X3U918WB2

Lens Removal Note

1. Insert a tape-wrapped, flathead screwdriver into the service hole.
2. Twist the flathead screwdriver in the direction indicated by the arrow to remove the lens.



X3U918WB3

INTERIOR LIGHT INSPECTION

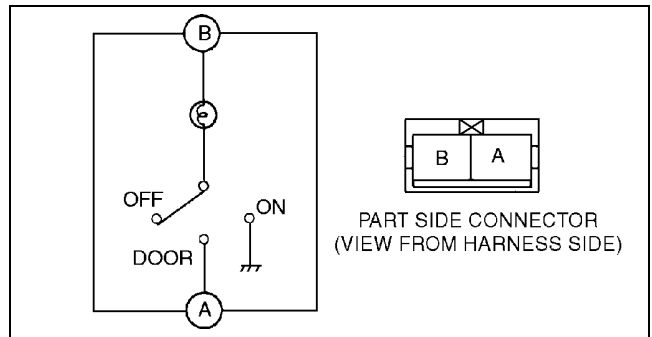
A3U091869970W02

1. Remove the interior light. (See 09-18-22 INTERIOR LIGHT REMOVAL/INSTALLATION.)
2. Inspect for continuity between the interior light terminals using an ohmmeter.
 - If not as specified, replace the interior light.

○ ⊕ ○ : Bulb

Switch position	Terminal		
	A	B	Body GND
ON		○ ⊕ ○	
DOOR	○ ⊕ ○		
OFF			

X3U918WBP



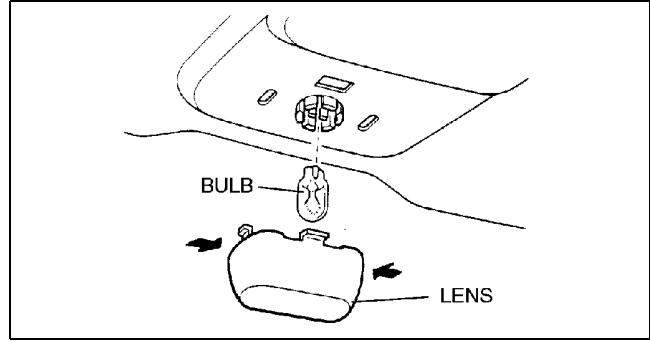
Z3U0918W005

LIGHTING SYSTEMS

TRUNK COMPARTMENT LIGHT BULB REMOVAL/INSTALLATION

A3U091851440W01

1. Disconnect the negative battery cable.
2. Pinch the sides of the lens and pull down to remove.
3. Remove the bulb.
4. Install in the reverse order of removal.



X3U918WB5

TRUNK COMPARTMENT LIGHT SWITCH INSPECTION

A3U091851440W02

Note

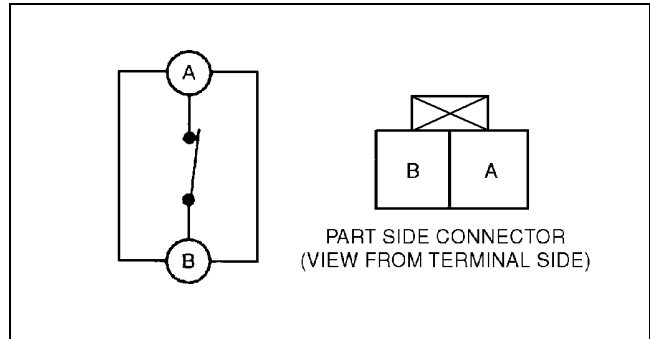
- Trunk compartment light switch has a built-in trunk lid lock.

1. Disconnect the trunk compartment light switch connector.
2. Inspect for continuity between the trunk compartment light switch terminal and a body ground using an ohmmeter.
 - If not as specified, replace the trunk lid lock.

○—○ : Continuity

Switch position	Terminal	
	A	B
Locked (trunk lid closed)		
Unlocked (trunk lid opened)	○—○	○—○

X3U918WBQ



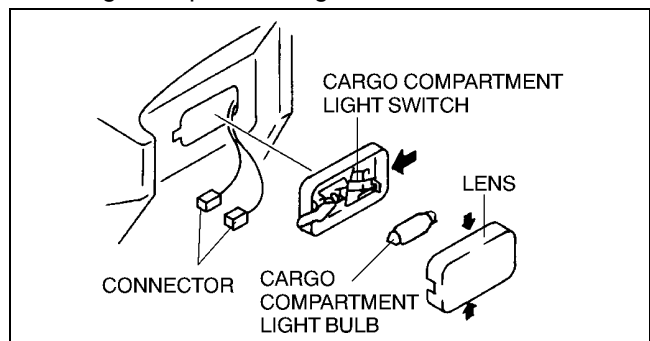
Y3U918WAD

09-18

CARGO COMPARTMENT LIGHT REMOVAL/INSTALLATION

A3U091851441W01

1. Disconnect the negative battery cable.
2. Pinch the sides of the lens and pull to remove.
3. Remove the cargo compartment light bulb.
4. Push the area indicated by the arrow and pull to remove the cargo compartment light.
5. Disconnect the connectors.
6. Install in the reverse order of removal.



A3U0918W005

LIGHTING SYSTEMS

CARGO COMPARTMENT LIGHT INSPECTION

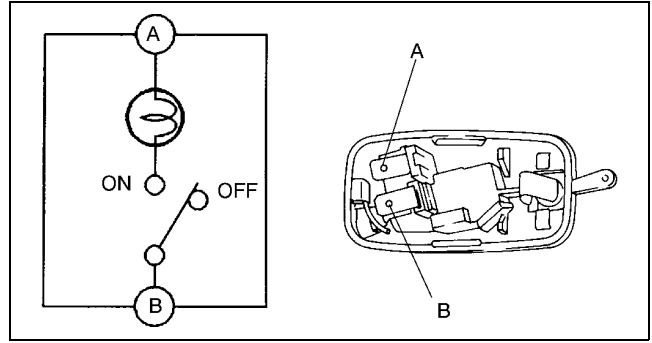
A3U091851441W02

1. Remove the cargo compartment light. (See 09–18–23 CARGO COMPARTMENT LIGHT REMOVAL/INSTALLATION.)
2. Inspect for continuity between the cargo compartment light terminals using an ohmmeter.
 - If not as specified, replace the cargo compartment light.

○—○ : Bulb

Switch position	Terminal	
	A	B
ON	○—○	○—○
OFF		

YMU918WB7



A3U0918W007

CARGO COMPARTMENT LIGHT SWITCH INSPECTION

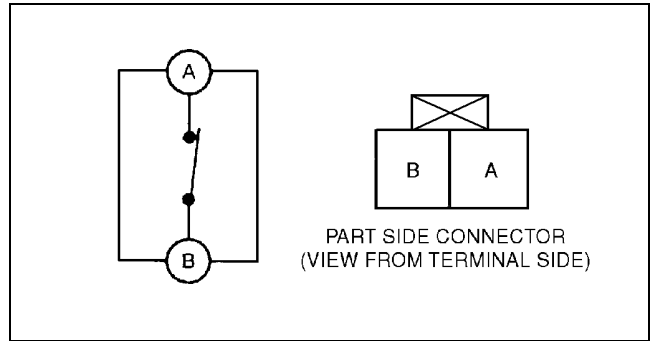
A3U091851442W01

1. Remove the liftgate trim. (See 09–17–16 LIFTGATE TRIM REMOVAL/INSTALLATION.)
2. Disconnect the cargo compartment light switch connector.
3. Inspect for continuity between the cargo compartment light switch terminals using an ohmmeter.
 - If not as specified, replace the liftgate lock.

○—○ : Continuity

Switch position	Terminal	
	A	B
On (liftgate open)	○—○	○—○
Off (liftgate closed)		

YMU918WB9

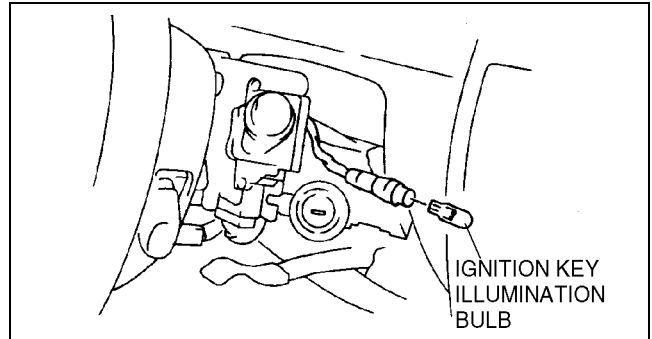


Y3U918WAD

IGNITION KEY ILLUMINATION BULB REMOVAL/INSTALLATION

A3U091860231W01

1. Disconnect the negative battery cable.
2. Remove the column cover.
3. Remove the ignition key illumination bulb.
4. Install in the reverse order of removal.



Z3U0918W015

DOOR SWITCH REMOVAL/INSTALLATION

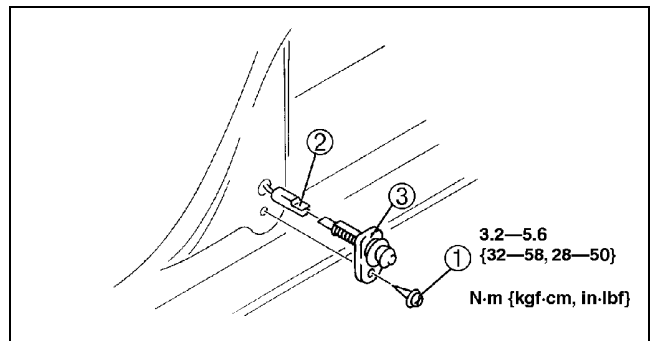
A3U091866540W01

Front

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.

1	Screw
2	Connector
3	Door switch

3. Install in the reverse order of removal.



Y3U918WAE

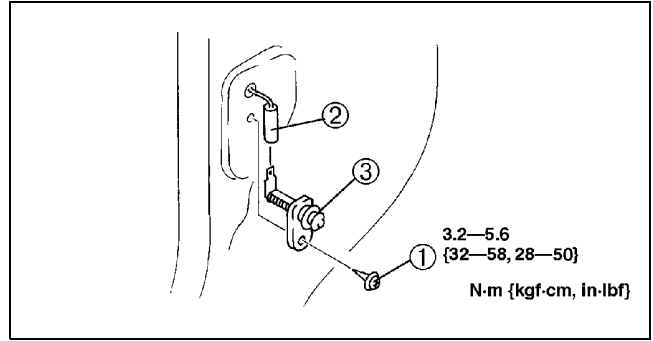
LIGHTING SYSTEMS

Rear

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.

1	Screw
2	Connector
3	Door switch

3. Install in the reverse order of removal.



Y3U918WAF

DOOR SWITCH INSPECTION

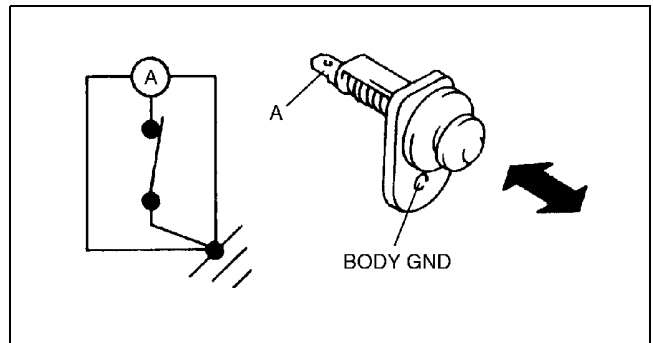
1. Remove the door switch. (See 09-18-24 DOOR SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the door switch terminal and a body ground using an ohmmeter.
 - If not as specified, replace the door switch.

A3U091866540W02

○—○ : Continuity

Switch position	Terminal	
	A	Body GND
Pressed		
Released	○—○	○—○

X3U918WBR



X3U918WB9

09-18

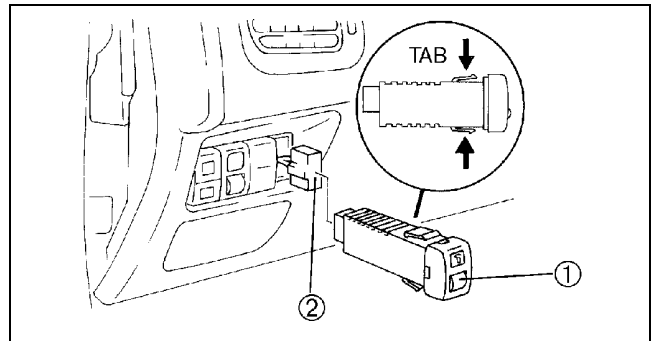
PANEL LIGHT CONTROL SWITCH REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the driver-side side panel.
3. Remove in the order indicated in the table.

A3U091866600W01

1	Panel light control switch (See 09-18-25 Panel Light Control Switch Removal Note)
2	Connector

4. Install in the reverse order of removal.



Y3U918WAS

Panel Light Control Switch Removal Note

1. Insert your hand into the hole in the driver-side side panel, grasp the tabs of the panel light control switch and pull it forward to remove.

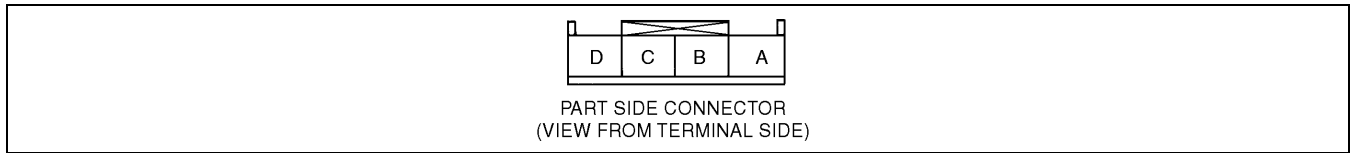
LIGHTING SYSTEMS

PANEL LIGHT CONTROL SWITCH INSPECTION

A3U091866600W02

1. Remove the panel light control switch. (See 09–18–25 PANEL LIGHT CONTROL SWITCH REMOVAL/INSTALLATION.)
2. Connect the negative battery cable.
3. Connect the connector to the panel light control switch.
4. Measure the voltage at the panel light control switch as indicated below.
5. Disconnect the panel light control switch connector before inspecting for continuity at terminal D.
 - If not as specified, inspect the parts listed under “Action.”
 - If the parts and wiring harnesses are okay but the system still does not work properly, replace the panel light control switch.

Terminal Voltage List (Reference)

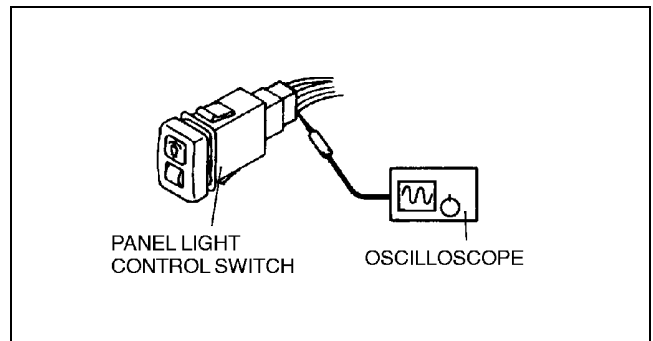


Y3U918WAG

Terminal	Signal	Connected to	Test condition	Voltage (V)/Continuity	Action
A	—	—	—	—	—
B	TNS	TNS relay	Headlight switch at TNS or headlight position	B+	<ul style="list-style-type: none"> • Inspect TNS relay • Inspect combination switch • Inspect TAIL 15 A fuse • Inspect related harness
			Other	Below 1.0	
C	Illumination	Each illumination	Inspect using an oscilloscope (See 09–18–26 Terminal C inspection)	—	<ul style="list-style-type: none"> • Inspect each illumination • Inspect related harness
D	Ground	GND	Constant: inspect for continuity to ground	Yes	<ul style="list-style-type: none"> • Inspect GND

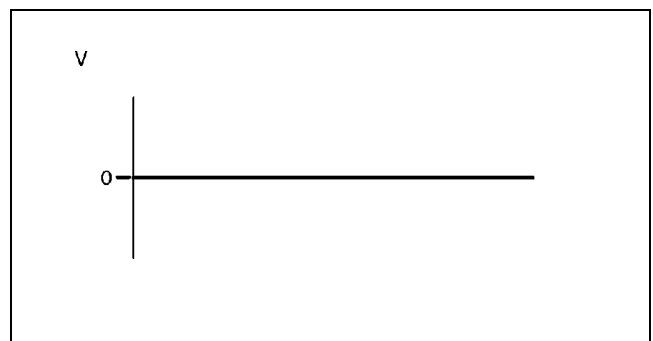
Terminal C inspection

1. Measure the wave pattern of the C terminal on the panel light control switch using an oscilloscope.
2. Set the headlight switch to either the TNS or headlight position.
3. Set the panel light control switch to the brightest position.



X3U918WBC

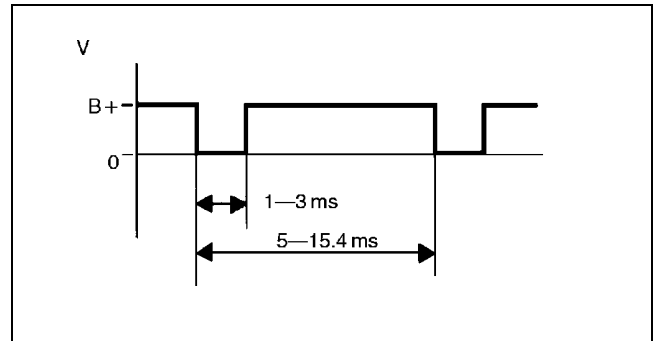
4. Verify that the pattern on the screen is as shown in the figure.



X3U918WBD

LIGHTING SYSTEMS

5. Verify that the pattern on the screen matches the pattern shown in the figure as the panel light control switch is gradually turned to the darkest position.



X3U918WBE

09-19 WIPER/WASHER SYSTEM

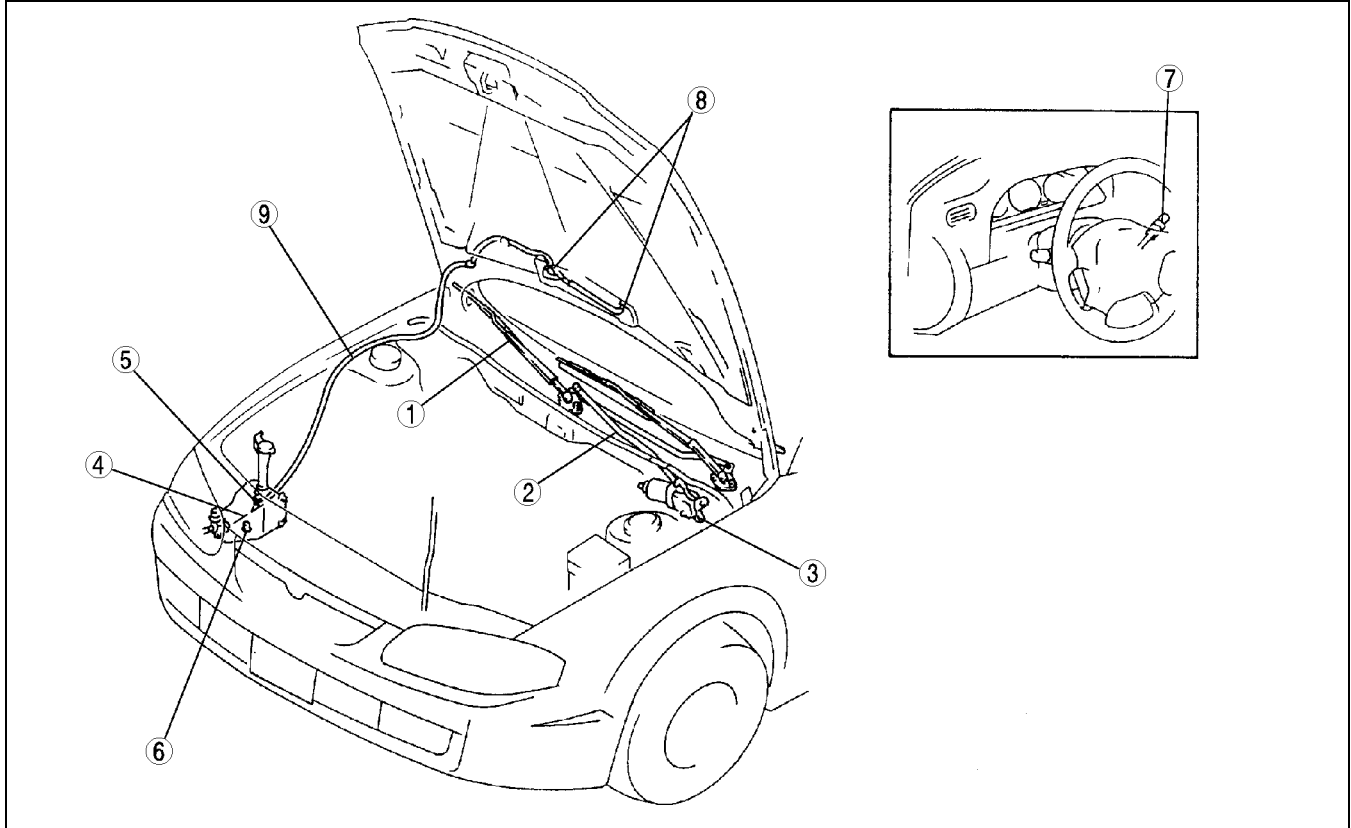
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Rear Wiper and Washer System	09-19-3	WINDSHIELD WASHER NOZZLE	
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REMOVAL/INSTALLATION	09-19-5	WINDSHIELD WASHER HOSE	
Windshield Wiper Arm		REMOVAL/INSTALLATION	09-19-11
Installation Note	09-19-5	REAR WIPER ARM AND BLADE	
WINDSHIELD WIPER LINK		ADJUSTMENT	09-19-12
REMOVAL/INSTALLATION	09-19-5	REAR WIPER ARM AND BLADE	
WINDSHIELD WIPER MOTOR		REMOVAL/INSTALLATION	09-19-12
REMOVAL/INSTALLATION	09-19-6	Rear Wiper Arm Installation Note	09-19-12
WINDSHIELD WIPER MOTOR		REAR WIPER MOTOR	
INSPECTION	09-19-6	REMOVAL/INSTALLATION	09-19-12
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REMOVAL/INSTALLATION	09-19-7	REAR WASHER MOTOR	
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WASHER FLUID-LEVEL SENSOR		REAR WASHER NOZZLE CLEANING ..	09-19-15
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WIPER AND WASHER SWITCH		REMOVAL/INSTALLATION	09-19-16
INSPECTION	09-19-9	INTERMITTENT REAR WIPER RELAY	
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WIPER/WASHER SYSTEM

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A3U091901063W01

Windshield Wiper and Washer System



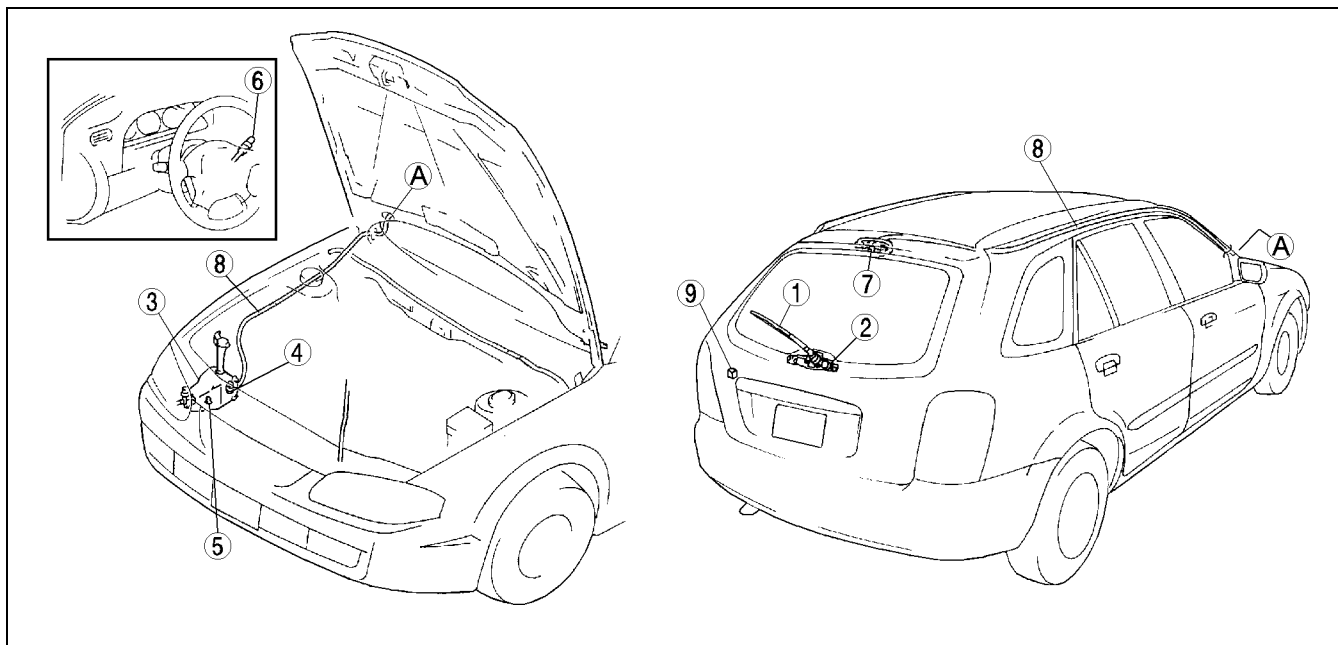
Z3U0919W003

1	Windshield wiper arm and blade (See 09-19-5 WINDSHIELD WIPER ARM AND BLADE ADJUSTMENT) (See 09-19-5 WINDSHIELD WIPER ARM AND BLADE REMOVAL/INSTALLATION)
2	Windshield wiper link (See 09-19-5 WINDSHIELD WIPER LINK REMOVAL/INSTALLATION)
3	Windshield wiper motor (See 09-19-6 WINDSHIELD WIPER MOTOR REMOVAL/INSTALLATION) (See 09-19-6 WINDSHIELD WIPER MOTOR INSPECTION)
4	Washer tank (See 09-19-7 WASHER TANK REMOVAL/INSTALLATION)
5	Windshield washer motor (See 09-19-7 WINDSHIELD WASHER MOTOR REMOVAL/INSTALLATION) (See 09-19-8 WINDSHIELD WASHER MOTOR INSPECTION)

6	Washer fluid-level sensor (See 09-19-8 WASHER FLUID-LEVEL SENSOR REMOVAL/INSTALLATION) (See 09-19-8 WASHER FLUID-LEVEL SENSOR INSPECTION)
7	Wiper and washer switch (See 09-19-9 WIPER AND WASHER SWITCH REMOVAL/INSTALLATION) (See 09-19-9 WIPER AND WASHER SWITCH INSPECTION)
8	Windshield washer nozzle (See 09-19-10 WINDSHIELD WASHER NOZZLE ADJUSTMENT) (See 09-19-11 WINDSHIELD WASHER NOZZLE CLEANING) (See 09-19-11 WINDSHIELD WASHER NOZZLE REMOVAL) (See 09-19-11 WINDSHIELD WASHER NOZZLE INSTALLATION)
9	Windshield washer hose (See 09-19-11 WINDSHIELD WASHER HOSE REMOVAL/INSTALLATION)

WIPER/WASHER SYSTEM

Rear Wiper and Washer System



A3U0919W109

1	Rear wiper arm and blade (See 09-19-12 REAR WIPER ARM AND BLADE ADJUSTMENT) (See 09-19-12 REAR WIPER ARM AND BLADE REMOVAL/INSTALLATION)
2	Rear wiper motor (See 09-19-12 REAR WIPER MOTOR REMOVAL/INSTALLATION) (See 09-19-13 REAR WIPER MOTOR INSPECTION)
3	Windshield washer tank (See 09-19-7 WASHER TANK REMOVAL/INSTALLATION)
4	Rear washer motor (See 09-19-14 REAR WASHER MOTOR REMOVAL/INSTALLATION) (See 09-19-14 REAR WASHER MOTOR INSPECTION)
5	Washer fluid-level sensor (See 09-19-8 WASHER FLUID-LEVEL SENSOR REMOVAL/INSTALLATION) (See 09-19-8 WASHER FLUID-LEVEL SENSOR INSPECTION)

6	Wiper and washer switch (See 09-19-9 WIPER AND WASHER SWITCH REMOVAL/INSTALLATION) (See 09-19-9 WIPER AND WASHER SWITCH INSPECTION)
7	Rear washer nozzle (See 09-19-15 REAR WASHER NOZZLE ADJUSTMENT) (See 09-19-15 REAR WASHER NOZZLE CLEANING) (See 09-19-14 REAR WASHER NOZZLE REMOVAL/INSTALLATION)
8	Rear washer hose (See 09-19-15 REAR WASHER HOSE REMOVAL/INSTALLATION)
9	Intermittent rear wiper relay (See 09-19-16 INTERMITTENT REAR WIPER RELAY REMOVAL/INSTALLATION) (See 09-19-16 INTERMITTENT REAR WIPER RELAY INSPECTION)

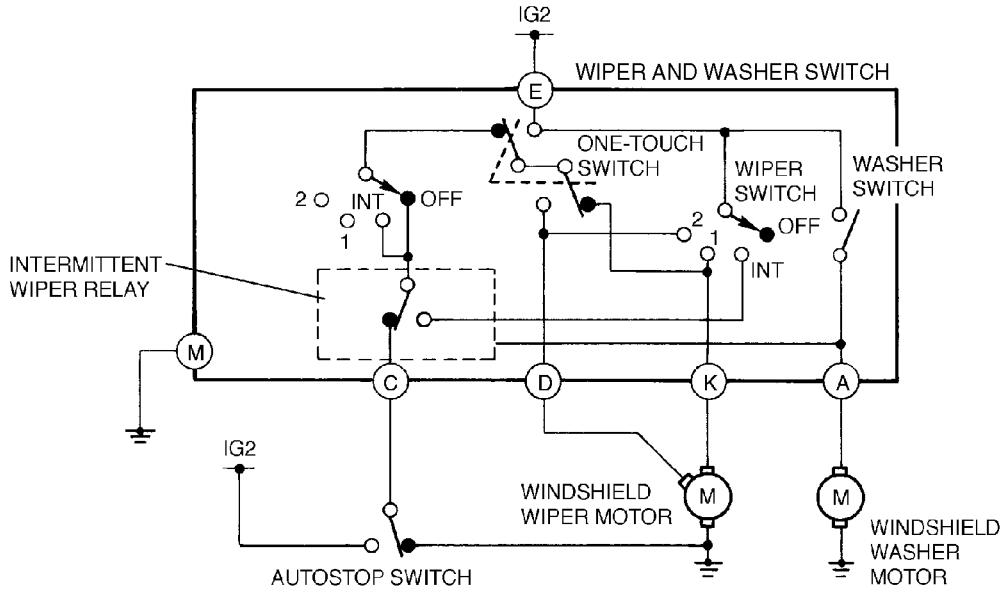
09-19

WIPER/WASHER SYSTEM

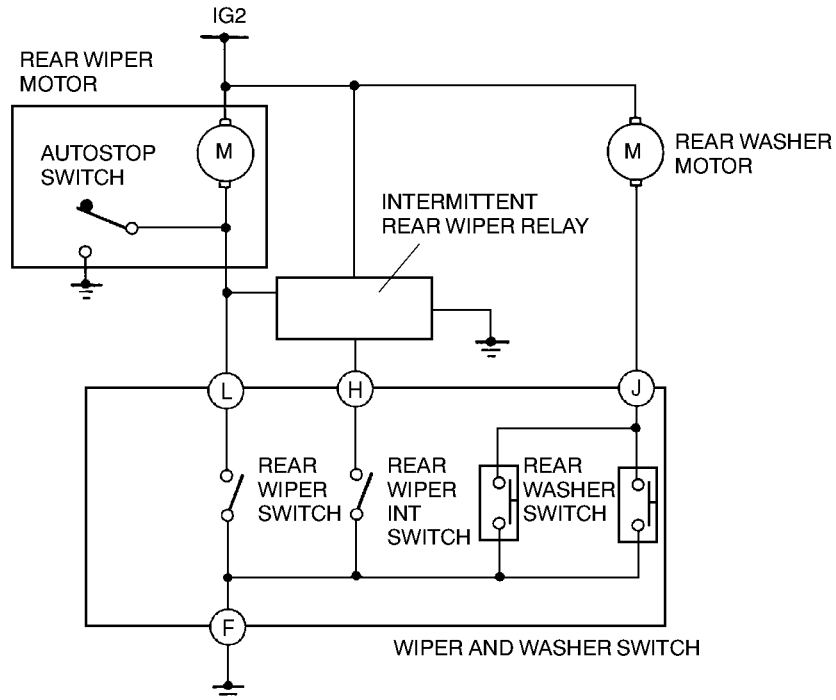
WIPER/WASHER SYSTEMS WIRING DIAGRAM

A3U091901063W02

WINDSHIELD WIPER AND WASHER SYSTEM



REAR WIPER AND WASHER SYSTEM



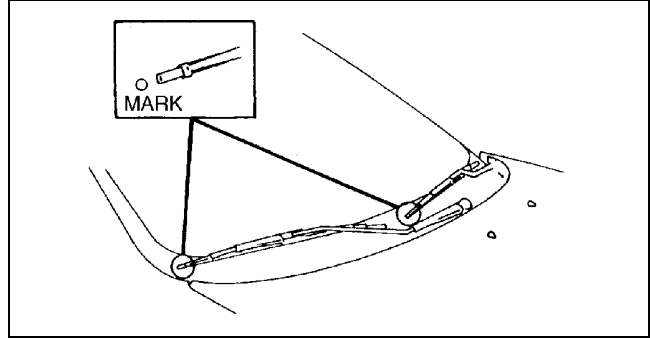
A3U0919W108

WIPER/WASHER SYSTEM

WINDSHIELD WIPER ARM AND BLADE ADJUSTMENT

A3U091967320W01

1. Operate the windshield wiper motor to set the wipers in the park position.
2. Align the windshield wiper blades to the marks.



X3U919WA4

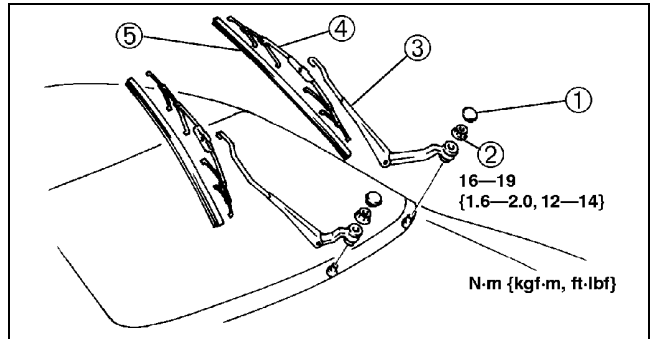
WINDSHIELD WIPER ARM AND BLADE REMOVAL/INSTALLATION

A3U091967320W02

1. Remove in the order indicated in the table.

1	Cap
2	Nut
3	Windshield wiper arm (See 09-19-5 Windshield Wiper Arm Installation Note)
4	Windshield wiper blade
5	Rubber brush

2. Install in the reverse order of removal.
3. Adjust the windshield wiper arm and blade. (See 09-19-5 WINDSHIELD WIPER ARM AND BLADE ADJUSTMENT.)

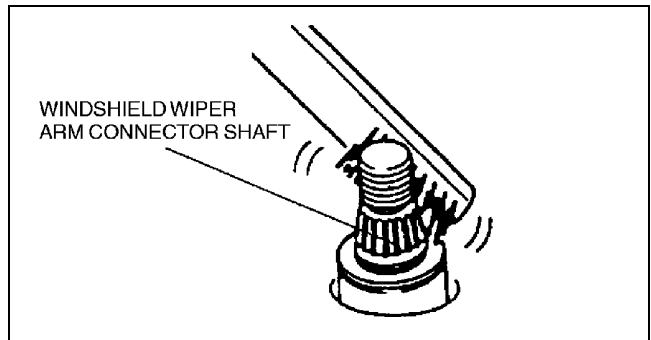


X3U919WA2

09-19

Windshield Wiper Arm Installation Note

1. Clean the windshield wiper arm connector shafts using a wire brush before installing the windshield wiper arms.



X3U919WA3

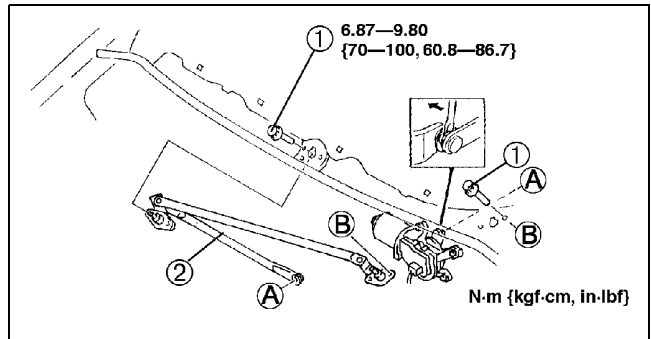
WINDSHIELD WIPER LINK REMOVAL/INSTALLATION

A3U091967360W01

1. Remove the windshield wiper arm and blade. (See 09-19-5 WINDSHIELD WIPER ARM AND BLADE REMOVAL/INSTALLATION.)
2. Remove the cowl grille. (See 09-16-1 COWL GRILLE REMOVAL/INSTALLATION.)
3. Pry off the connection between the windshield wiper motor and windshield wiper link.
4. Remove in the order indicated in the table.

1	Bolt
2	Windshield wiper link

5. Install in the reverse order of removal.
6. Adjust the windshield wiper arm and blade. (See 09-19-5 WINDSHIELD WIPER ARM AND BLADE ADJUSTMENT.)



X3U919WA5

WIPER/WASHER SYSTEM

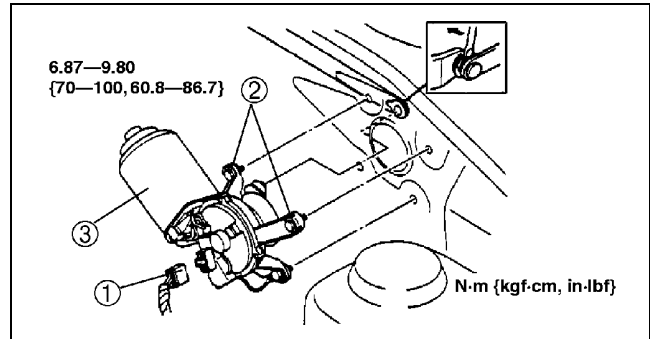
WINDSHIELD WIPER MOTOR REMOVAL/INSTALLATION

A3U091967340W01

1. Disconnect the negative battery cable.
2. Remove the windshield wiper arm and blade. (See 09-19-5 WINDSHIELD WIPER ARM AND BLADE REMOVAL/INSTALLATION.)
3. Remove the cowl grille. (See 09-16-1 COWL GRILLE REMOVAL/INSTALLATION.)
4. Pry off the connection between the windshield wiper motor and windshield wiper link.
5. Remove in the order indicated in the table.

1	Connector
2	Bolt
3	Windshield wiper motor

6. Install in the reverse order of removal.
7. Adjust the windshield wiper arm and blade. (See 09-19-5 WINDSHIELD WIPER ARM AND BLADE ADJUSTMENT.)



X3U919WA0

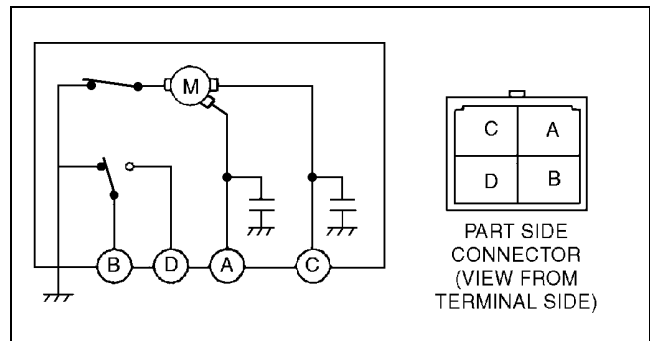
WINDSHIELD WIPER MOTOR INSPECTION

A3U091967340W02

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

Terminal	Operation
A	High
C	Low

3. Disconnect battery positive voltage from terminal C of the motor while the wipers are operating.
4. Verify that the wipers do not stop in the park position.
5. Short between terminal B and C of the motor and connect battery positive voltage to terminal D of the motor.
6. Verify that the wipers operate at low speed again, then stop in the park position.
 - If not as specified, replace the windshield wiper motor.



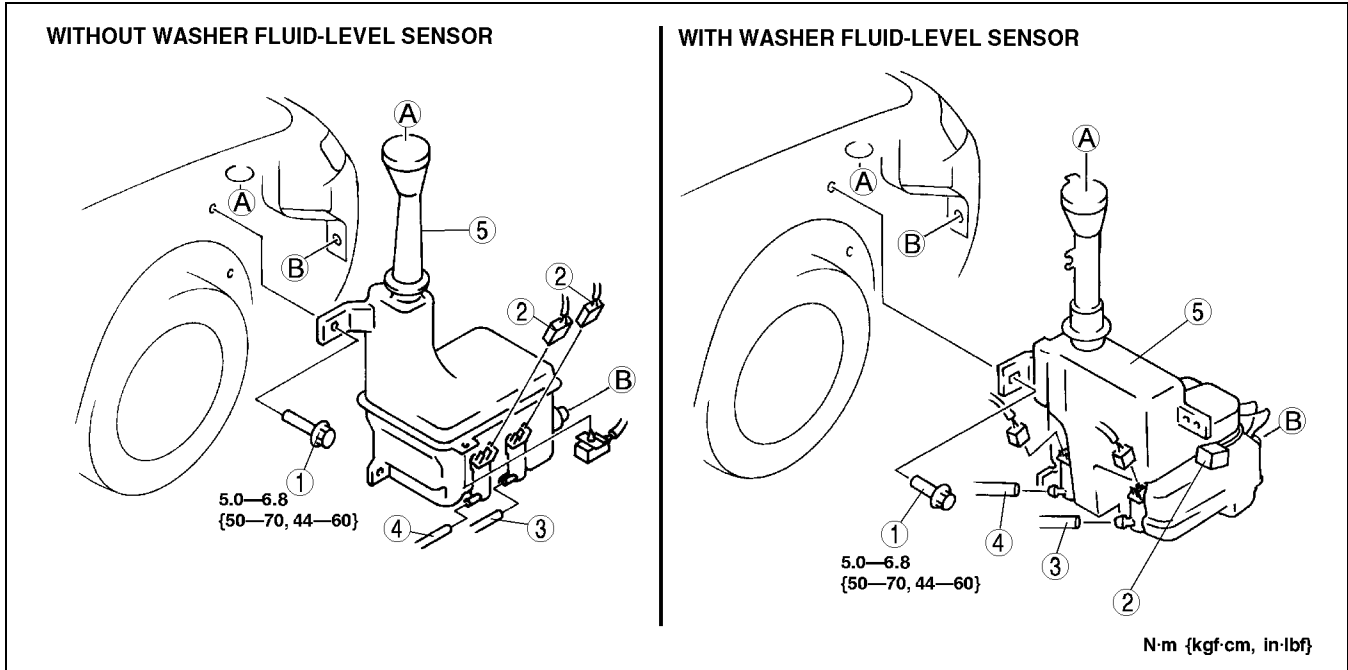
Z3U0919W001

WIPER/WASHER SYSTEM

WASHER TANK REMOVAL/INSTALLATION

A3U091967480W01

1. Disconnect the negative battery cable.
2. Partially peel off the right side mud guard.
3. Partially remove the right side front bumper (if equipped with washer fluid-level sensor). (See 09-10-5 FRONT BUMPER REMOVAL/INSTALLATION.)
4. Remove in the order indicated in the table.
5. Install in the reverse order of removal.



1	Bolt
2	Connector
3	Windshield washer hose

4	Rear washer hose
5	Washer tank

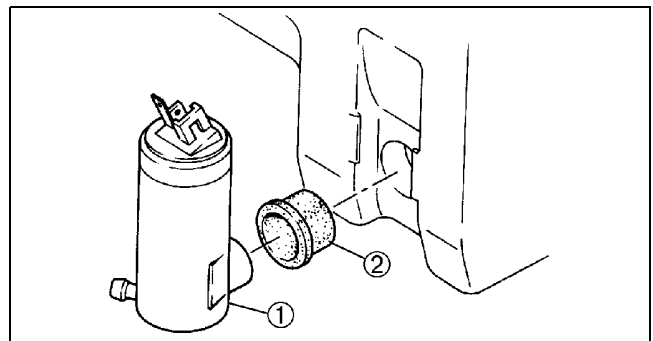
WINDSHIELD WASHER MOTOR REMOVAL/INSTALLATION

A3U091976670W01

1. Disconnect the negative battery cable.
2. Remove the washer tank. (See 09-19-7 WASHER TANK REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Windshield washer motor
2	Grommet

4. Install in the reverse order of removal.



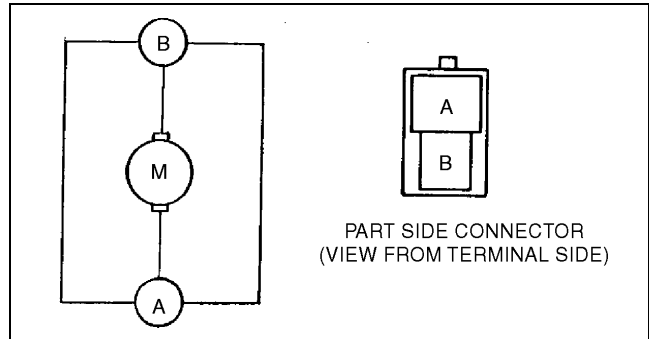
X3U919WA8

WIPER/WASHER SYSTEM

WINDSHIELD WASHER MOTOR INSPECTION

A3U091976670W02

1. Disconnect the negative battery cable.
2. Remove the washer tank. (See 09-19-7 WASHER TANK REMOVAL/INSTALLATION.)
3. Connect battery positive voltage to the terminal B and ground to the terminal A of the motor.
4. Verify that the windshield washer motor operates.
 - If the motor does not operate, replace the windshield washer motor.



Y3U919WA3

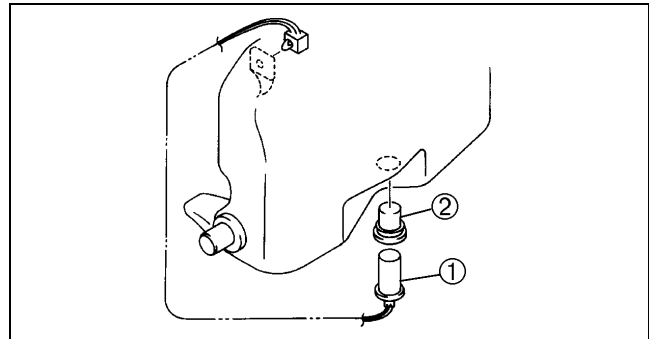
WASHER FLUID-LEVEL SENSOR REMOVAL/INSTALLATION

A3U091967488W01

1. Disconnect the negative battery cable.
2. Remove the washer tank. (See 09-19-7 WASHER TANK REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Washer fluid-level sensor
2	Grommet

4. Install in the reverse order of removal.



X3U919WB0

WASHER FLUID-LEVEL SENSOR INSPECTION

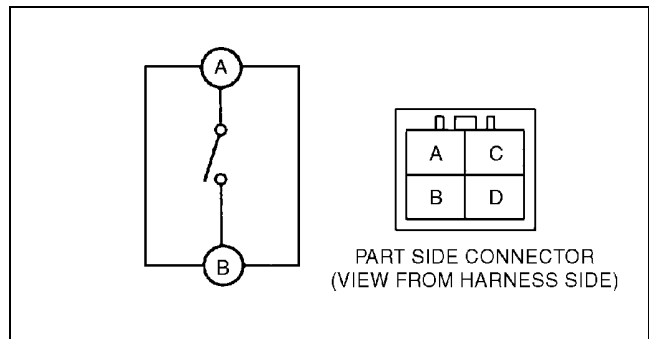
A3U091967488W02

1. Disconnect the negative battery cable.
2. Remove the washer tank. (See 09-19-7 WASHER TANK REMOVAL/INSTALLATION.)
3. Inspect for continuity between the washer fluid-level sensor terminals using an ohmmeter.
 - If not as specified, replace the washer fluid-level sensor.

○—○ : Continuity

Fluid level	Terminal	
	A	B
Above Low		
Below Low	○—○	○—○

X3U919WB1



Y3U919WA4

WIPER/WASHER SYSTEM

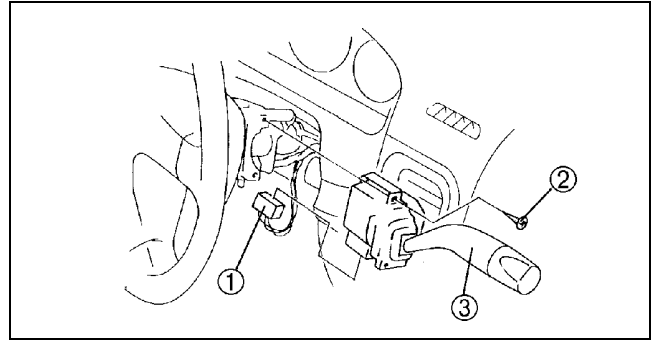
WIPER AND WASHER SWITCH REMOVAL/INSTALLATION

A3U091966122W01

1. Disconnect the negative battery cable.
2. Remove the column cover. (See 09-17-5 COLUMN COVER REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Connector
2	Screw
3	Wiper and washer switch

4. Install in the reverse order of removal.



X3U919WB7

WIPER AND WASHER SWITCH INSPECTION

A3U091966122W02

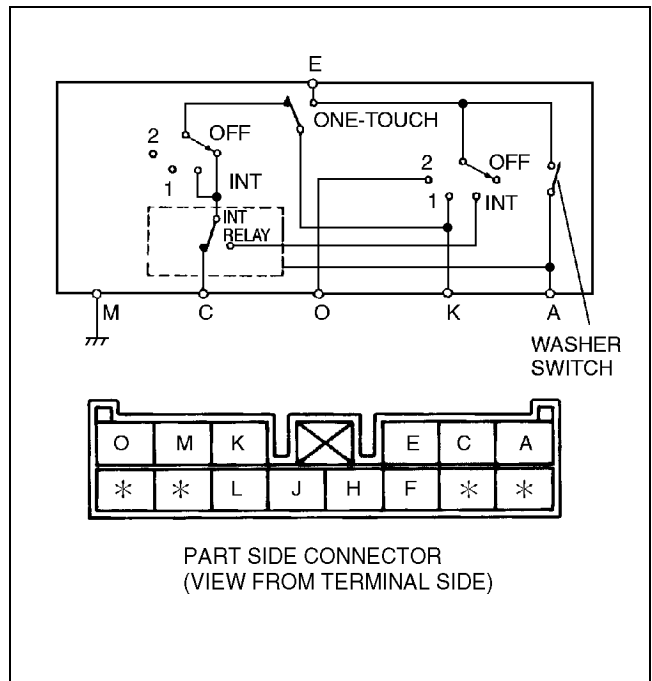
Windshield Wiper and Washer

1. Disconnect the negative battery cable.
2. Remove the wiper and washer switch. (See 09-19-9 WIPER AND WASHER SWITCH REMOVAL/INSTALLATION.)
3. Inspect for continuity between the wiper and washer switch terminals using an ohmmeter.
 - If not as specified, replace the wiper and washer switch.

○—○ : Continuity

Switch position	One-touch	Terminal				
		A	C	E	K	O
Wiper switch	OFF		○			○
				○	○	
	INT		○		○	
	1			○	○	
	2			○	○	○
Washer switch	ON	○		○		

X3U919WB8



Y3U919WA5

WIPER/WASHER SYSTEM

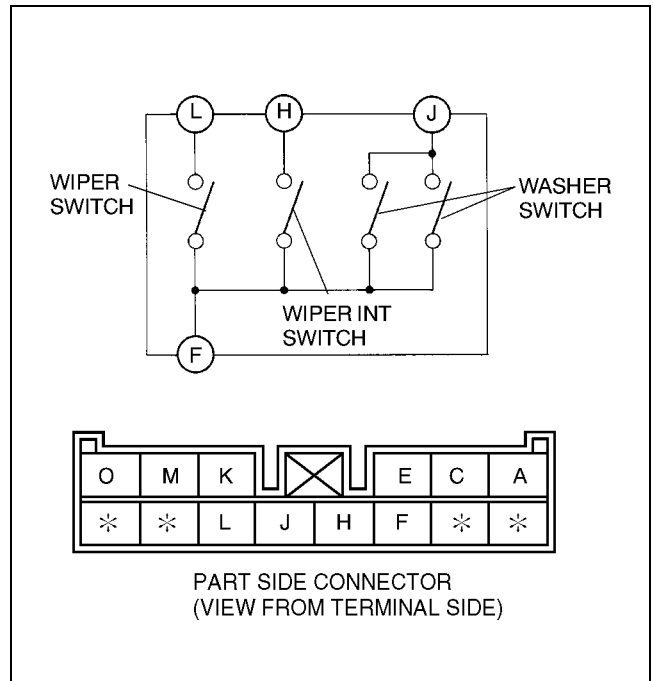
Rear Wiper and Washer

1. Disconnect the negative battery cable.
2. Remove the wiper and washer switch. (See 09-19-9 WIPER AND WASHER SWITCH REMOVAL/INSTALLATION.)
3. Inspect for continuity between the wiper and washer switch terminals using an ohmmeter.
 - If not as specified, replace the wiper and washer switch.

○—○ : Continuity

Switch position	Terminal			
	F	J	H	L
OFF				
Wiper	○—○			○—○
Washer	○—○	○—○		
Wiper and washer	○—○	○—○		○—○
Wiper INT	○—○		○—○	

A3U0919W017

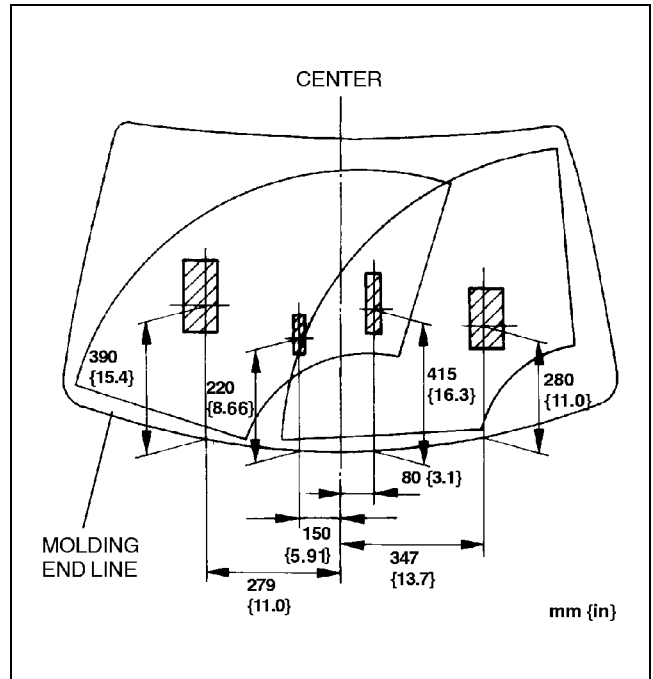


A3U0919W107

WINDSHIELD WASHER NOZZLE ADJUSTMENT

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

A3U091967510W01



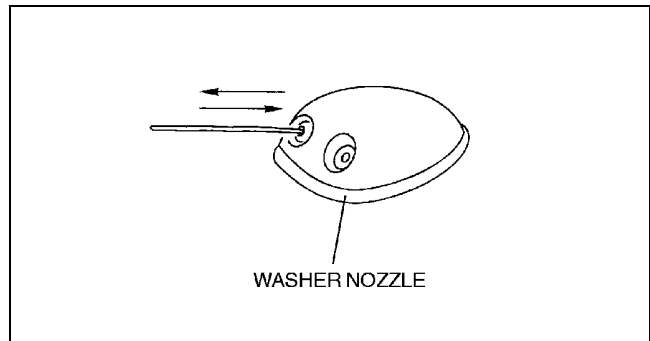
Y3U919WA6

WIPER/WASHER SYSTEM

WINDSHIELD WASHER NOZZLE CLEANING

A3U091967510W02

1. Clean the washer nozzle by inserting and moving a needle or similar tool back and forth.
 - If the nozzle becomes clogged again after cleaning, remove the hose from washer nozzle. Make sure there is enough washer fluid. Then turn the washer switch on and flush the inside of the hose.

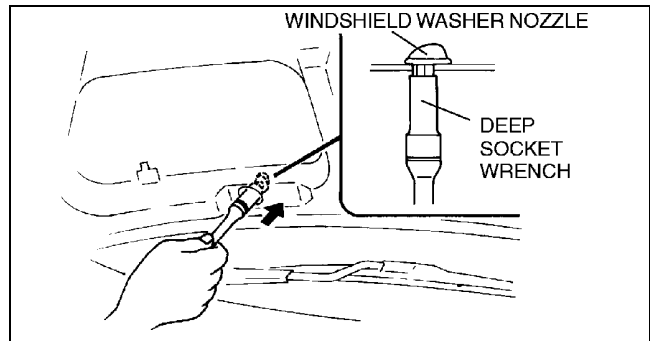


Y3U919WA7

WINDSHIELD WASHER NOZZLE REMOVAL

A3U091967510W03

1. Remove the bonnet insulator.
2. Disconnect the windshield washer hose to windshield washer nozzle.
3. Remove the windshield washer nozzle using a **10 mm {0.4 in}** deep socket wrench from underneath the bonnet.



X3U919WB3

09-19

WINDSHIELD WASHER NOZZLE INSTALLATION

A3U091967510W04

1. Connect the windshield washer hose to windshield washer nozzle.
2. Push the windshield washer nozzle into the installation hole.
3. Adjust the windshield washer nozzle. (See 09-19-10 WINDSHIELD WASHER NOZZLE ADJUSTMENT.)
4. Install the bonnet insulator.

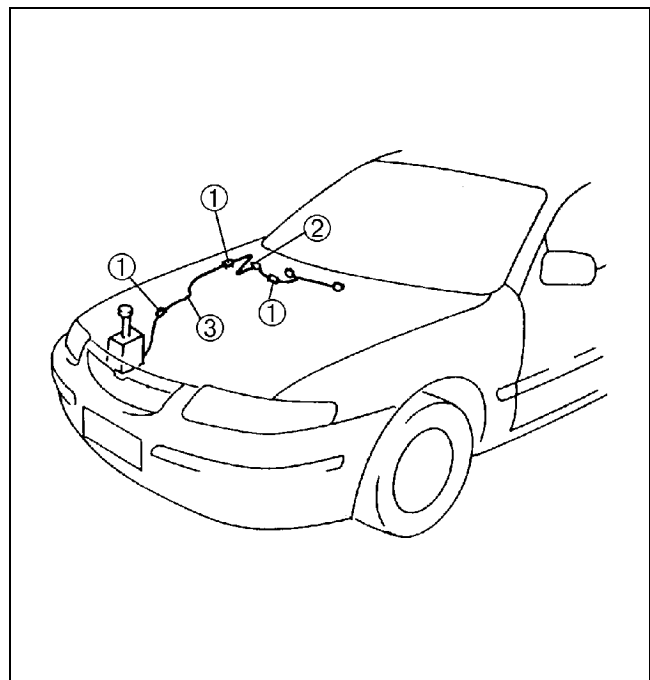
WINDSHIELD WASHER HOSE REMOVAL/INSTALLATION

A3U091967500W01

1. Remove the bonnet insulator.
2. Partially peel off the right side mud guard.
3. Remove in the order indicated in the table.

1	Clip
2	Joint pipe
3	Windshield washer hose

4. Install in the reverse order of removal.



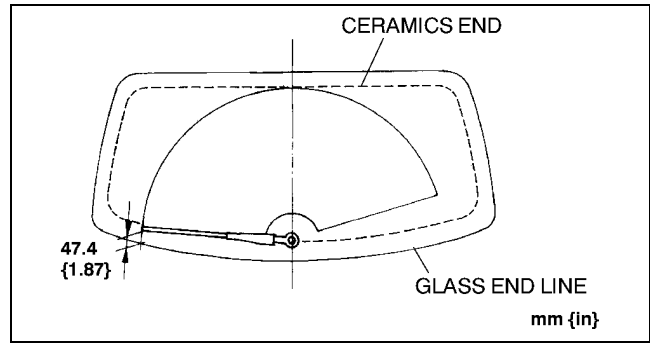
X3U919WB6

WIPER/WASHER SYSTEM

REAR WIPER ARM AND BLADE ADJUSTMENT

A3U091967420W01

1. Operate the rear wiper motor to set the wiper in the park position.
2. Set the rear wiper arm height as shown.



A3U0919W008

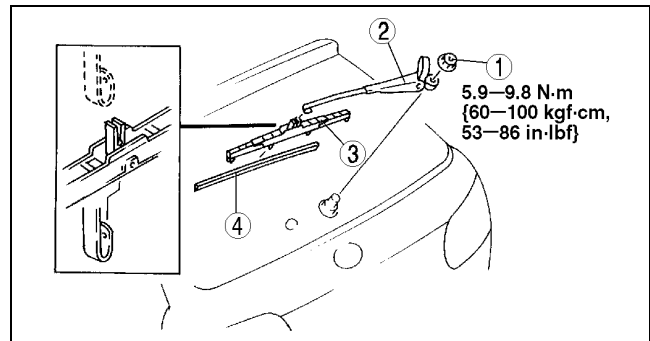
REAR WIPER ARM AND BLADE REMOVAL/INSTALLATION

A3U091967420W02

1. Remove in the order indicated in the table.

1	Nut
2	Rear wiper arm (See 09-19-12 Rear Wiper Arm Installation Note)
3	Rear wiper blade
4	Rubber brush

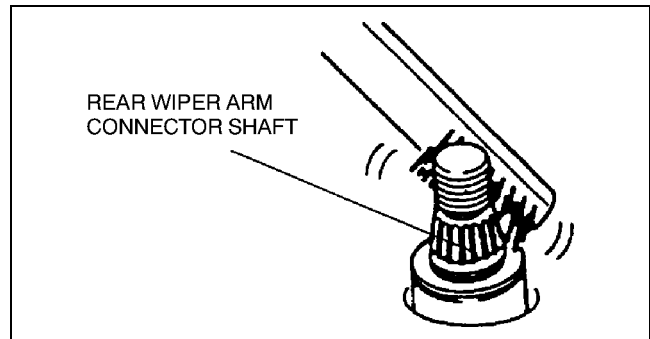
2. Install in the reverse order of removal.
3. Adjust the rear wiper arm and blade. (See 09-19-12 REAR WIPER ARM AND BLADE ADJUSTMENT.)



A3U0919W006

Rear Wiper Arm Installation Note

1. Clean the rear wiper arm connector shaft using a wire brush before installing the rear wiper arm.



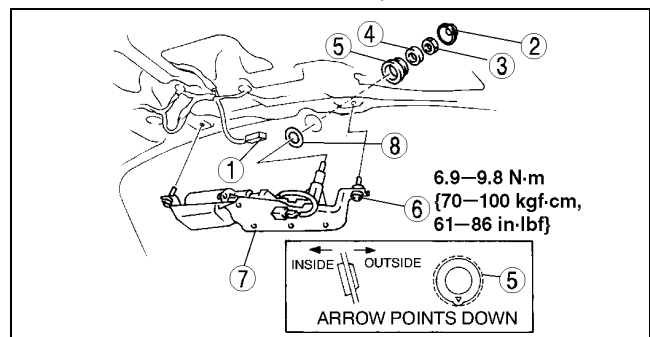
YMU919WAR

REAR WIPER MOTOR REMOVAL/INSTALLATION

A3U091967450W01

1. Disconnect the negative battery cable.
2. Remove the rear wiper arm and blade. (See 09-19-12 REAR WIPER ARM AND BLADE REMOVAL/INSTALLATION.)
3. Remove the liftgate trim. (See 09-17-16 LIFTGATE TRIM REMOVAL/INSTALLATION.)
4. Remove in the order indicated in the table.

1	Connector
2	Seal cap
3	Nut
4	Washer
5	Outer bushing
6	Bolt
7	Rear wiper motor
8	Washer



A3U0919W001

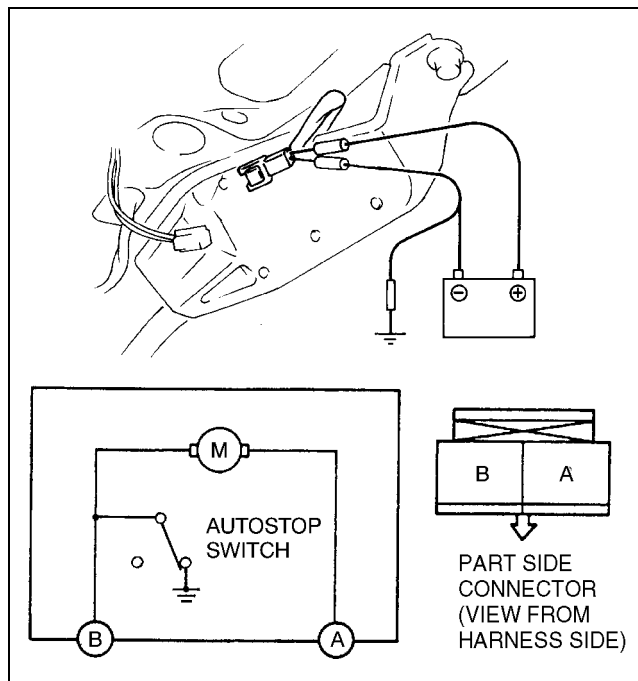
5. Install in the reverse order of removal.
6. Adjust the rear wiper arm and blade. (See 09-19-12 REAR WIPER ARM AND BLADE ADJUSTMENT.)

WIPER/WASHER SYSTEM

REAR WIPER MOTOR INSPECTION

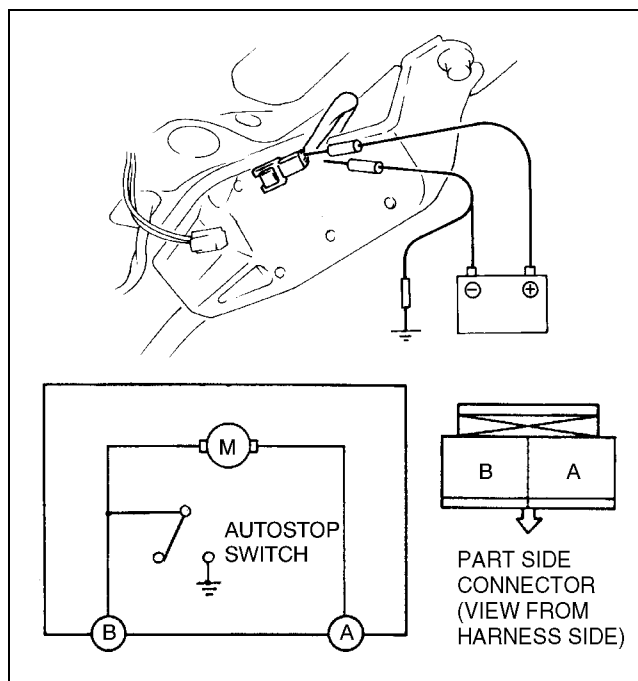
A3U091967450W02

1. Disconnect the negative battery cable.
2. Remove the liftgate trim. (Refer to 09-17-16 LIFTGATE TRIM REMOVAL/INSTALLATION.)
3. Disconnect the rear wiper motor connector.
4. Connect battery positive voltage to the rear wiper motor terminal A and the ground to a bare metal part of the vehicle and the rear wiper motor terminal B.
5. Verify that the rear wiper motor operates.



A3U0919W101

6. Disconnect the ground to the terminal B while the rear wiper is operating.
7. Verify that the rear wiper stops in the park position.
 - If not as specified, replace the rear wiper motor.



A3U0919W102

WIPER/WASHER SYSTEM

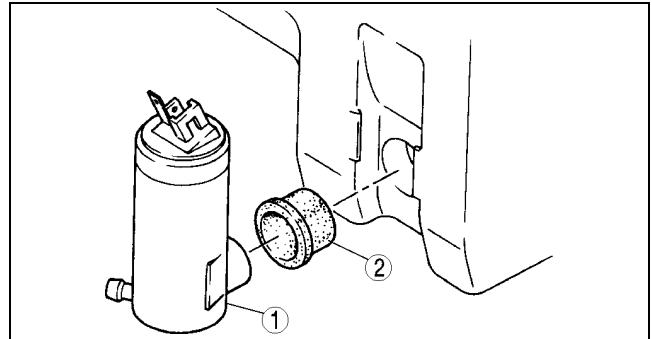
REAR WASHER MOTOR REMOVAL/INSTALLATION

A3U091976672W01

1. Disconnect the negative battery cable.
2. Partially peel off the right side mud guard.
3. Remove the washer tank. (See 09-19-7 WASHER TANK REMOVAL/INSTALLATION.)
4. Remove in the order indicated in the table.

1	Rear washer motor
2	Grommet

5. Install in the reverse order of removal.

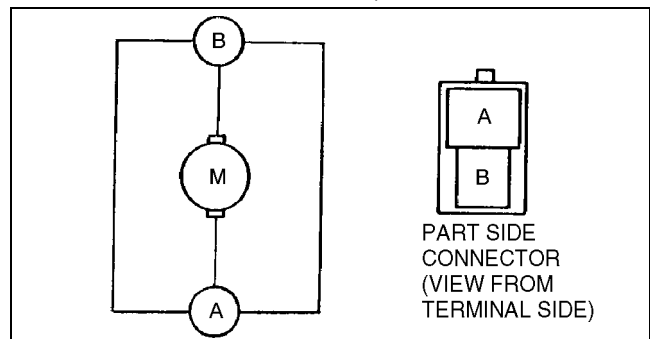


YMU919WAT

REAR WASHER MOTOR INSPECTION

A3U091976672W02

1. Remove the washer tank. (See 09-19-7 WASHER TANK REMOVAL/INSTALLATION.)
2. Connect battery positive voltage to the terminal B and ground to the terminal A of the motor.
3. Verify that the rear washer motor operates.
 - If the motor does not operate, replace the rear washer motor.

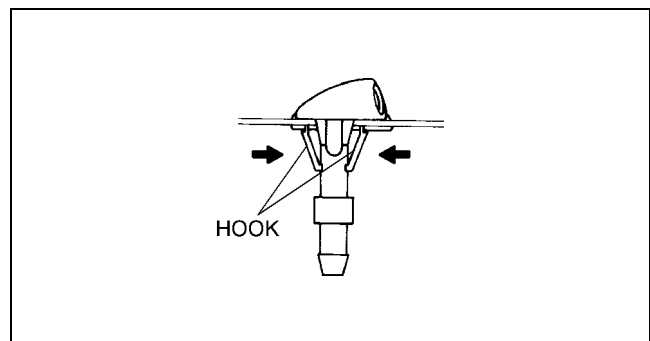


A3U0919W103

REAR WASHER NOZZLE REMOVAL/INSTALLATION

A3U091967511W01

1. Disconnect the negative battery cable.
2. Remove the rear spoiler. (See 09-16-8 REAR SPOILER REMOVAL/INSTALLATION.)
3. Remove the rear washer hose from the rear washer nozzle.
4. Compress the hooks of the rear washer nozzle.
5. Pull the rear washer nozzle out to remove it.
6. Install in the reverse order of removal.
7. Adjust the rear washer nozzle. (See 09-19-15 REAR WASHER NOZZLE ADJUSTMENT.)



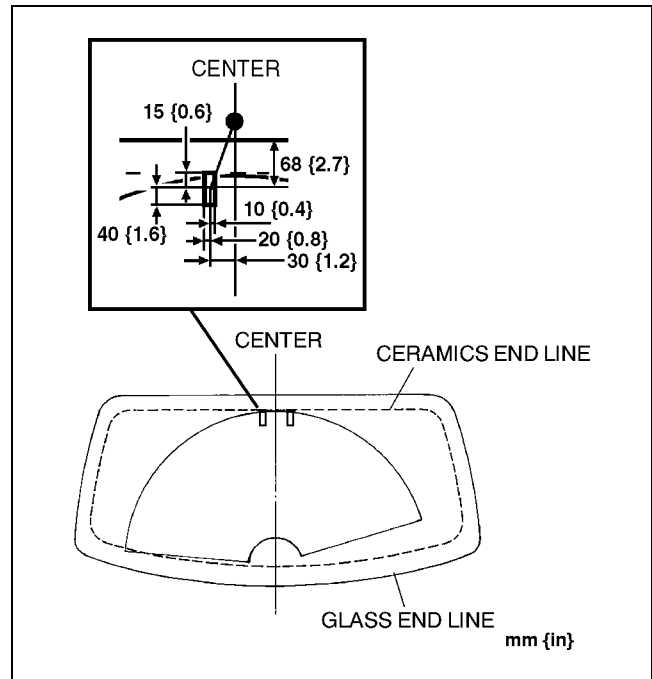
A3U0919W011

WIPER/WASHER SYSTEM

REAR WASHER NOZZLE ADJUSTMENT

A3U091967511W02

1. Insert a needle or equivalent tool into the spray hole of the rear washer nozzle and adjust the nozzle direction as shown.



A3U0919W110

REAR WASHER NOZZLE CLEANING

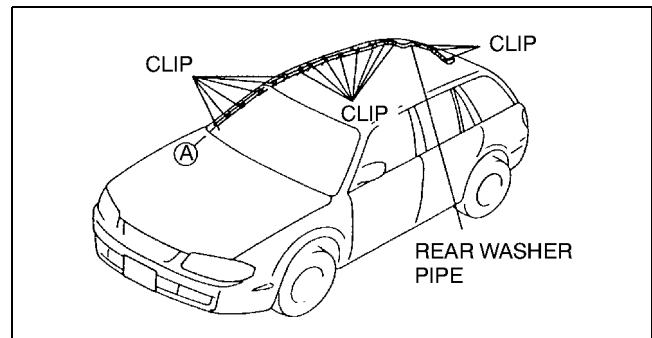
1. Clean the rear washer nozzle. (See 09-19-11 WINDSHIELD WASHER NOZZLE CLEANING.)

A3U091967511W03

REAR WASHER HOSE REMOVAL/INSTALLATION

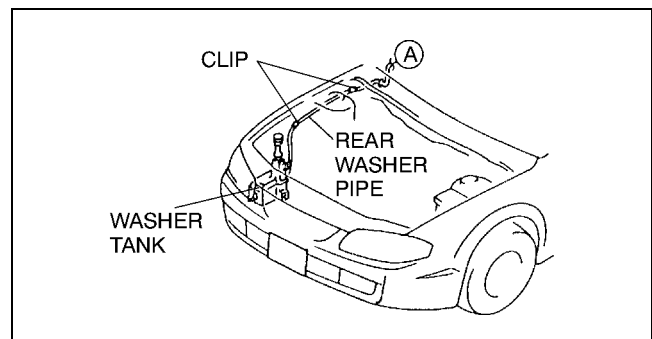
1. Disconnect the negative battery cable.
2. Remove the headliner. (See 09-17-16 HEADLINER REMOVAL/INSTALLATION.)
3. Remove the rear washer hose from the clips.
4. Partially peel off the right side mud guard and remove the rear washer hose from the clip.

A3U091967470W01



A3U0919W104

5. Remove the rear washer hose from the washer tank.
6. Install in the reverse order of removal.



A3U0919W105

WIPER/WASHER SYSTEM

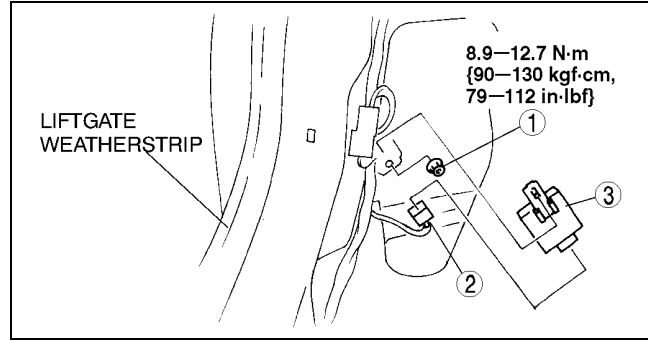
INTERMITTENT REAR WIPER RELAY REMOVAL/INSTALLATION

A3U091966810W01

1. Disconnect the negative battery cable.
2. Remove the left side trunk side trim. (See 09-17-15 TRUNK SIDE TRIM REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Nut
2	Connector
3	Intermittent rear wiper relay

4. Install in the reverse order of removal.



A3U0919W111

INTERMITTENT REAR WIPER RELAY INSPECTION

A3U091966810W02

1. Measure the voltage at the intermittent rear wiper relay terminals as indicated below.
2. Disconnect the intermittent rear wiper relay connector before inspecting for continuity at the terminal H.
 - If not as specified, inspect the parts listed under "Action".
 - If the parts and wiring harnesses are okay but the system still does not work properly, replace the intermittent rear wiper relay.

Terminal Voltage Table (Reference)

I		C	A
J	H F	D	B

HARNESS SIDE CONNECTOR
(VIEW FROM HARNESS SIDE)

A3U0919W106

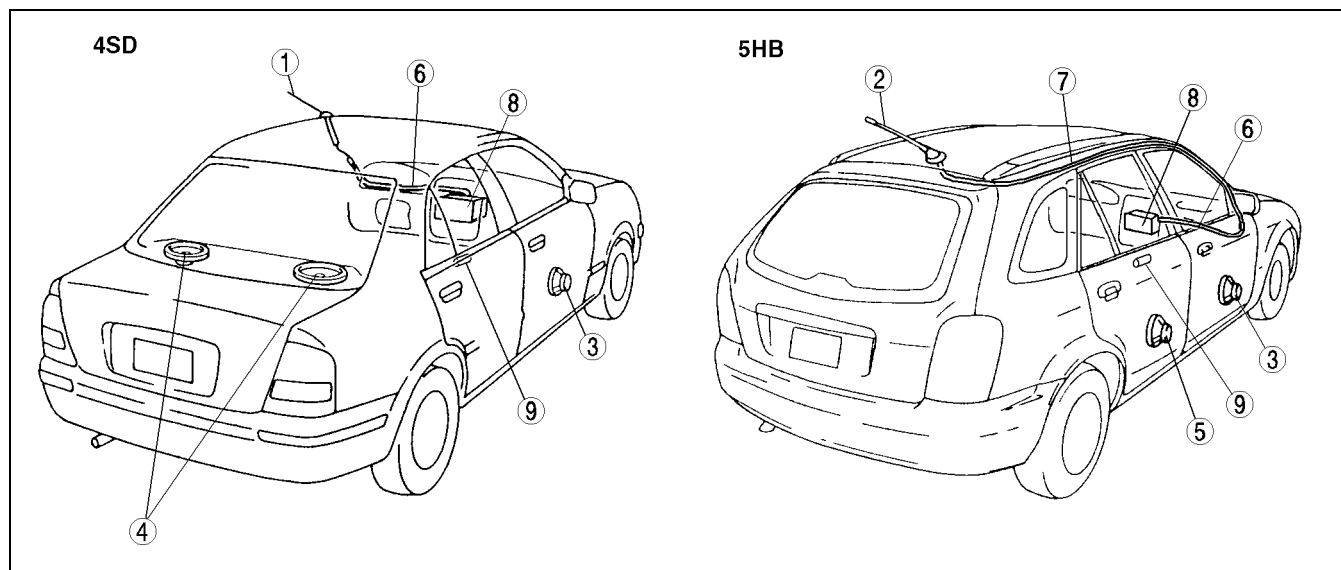
Terminal	Signal	Connected to	Test condition	Voltage (V)/Continuity	Action
A	—	—	—	—	—
B	IG2	R. WIP 10 A fuse	Ignition switch at ON position	B+	<ul style="list-style-type: none"> • Inspect R. WIP 10 A fuse • Inspect related harness
			Other	Below 1.0	
C	—	—	—	—	—
D	—	—	—	—	—
F	Rear wiper switch INT	Rear wiper switch	Ignition switch at ON position	Below 1.0	<ul style="list-style-type: none"> • Inspect R. WIP 10 A fuse • Inspect wiper and washer switch (See 09-19-9 WIPER AND WASHER SWITCH INSPECTION) • Inspect related harness
			Rear wiper switch at OFF position	B+	
H	GND	GND	Under any condition: inspect for continuity to ground	Yes	<ul style="list-style-type: none"> • Inspect GND
I	—	—	—	—	—
J	Autostop	Rear wiper motor	Ignition switch at ON position	Rear wiper is operating (INT position) Alternates below 1.0 and B+	<ul style="list-style-type: none"> • Inspect R. WIP 10 A fuse • Inspect wiper and washer switch (See 09-19-9 WIPER AND WASHER SWITCH INSPECTION) • Inspect rear wiper motor (See 09-19-13 REAR WIPER MOTOR INSPECTION) • Inspect related harness
			Other	B+	

09-20 ENTERTAINMENT

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A3U0920W102

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2	Rear center roof antenna (See 09-20-3 REAR CENTER ROOF ANTENNA REMOVAL/INSTALLATION) (See 09-20-3 REAR CENTER ROOF ANTENNA INSPECTION)
3	Front door speaker (See 09-20-3 FRONT DOOR SPEAKER REMOVAL/INSTALLATION) (See 09-20-4 DOOR SPEAKER INSPECTION)
4	Rear package speaker (See 09-20-4 REAR PACKAGE SPEAKER REMOVAL/INSTALLATION) (See 09-20-4 REAR PACKAGE SPEAKER INSPECTION)

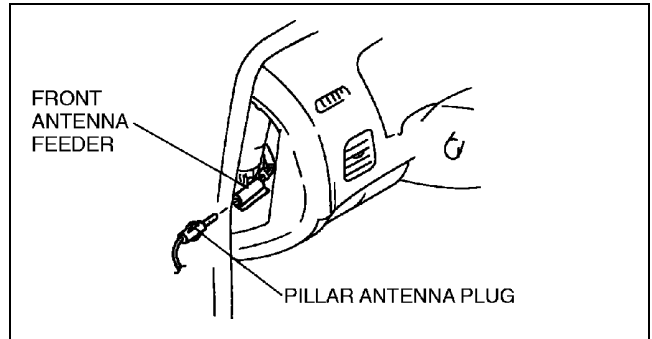
5	Rear door speaker (See 09-20-3 REAR DOOR SPEAKER REMOVAL/ INSTALLATION) (See 09-20-4 DOOR SPEAKER INSPECTION)
6	Front antenna feeder (See 09-20-5 FRONT ANTENNA FEEDER REMOVAL/INSTALLATION) (See 09-20-5 FRONT ANTENNA FEEDER INSPECTION)
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8	Audio unit (See 09-20-6 AUDIO UNIT REMOVAL) (See 09-20-6 AUDIO UNIT INSTALLATION)

09-20

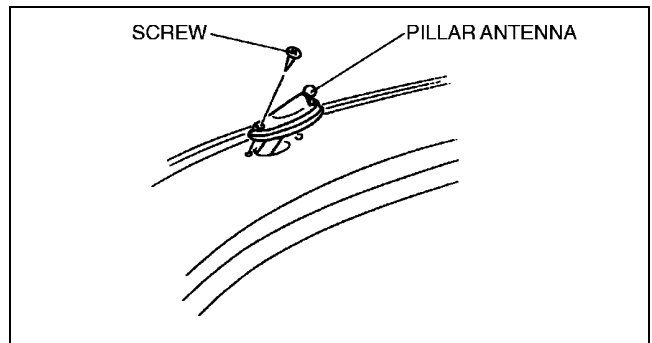
9	Cigarette lighter (See 09-20-8 CIGARETTE LIGHTER REMOVAL/ INSTALLATION) (See 09-20-9 CIGARETTE LIGHTER INSPECTION)
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PILLAR ANTENNA REMOVAL

1. Disconnect the negative battery cable.
2. Remove the driver-side front side trim. (See 09-17-13 FRONT SIDE TRIM REMOVAL/INSTALLATION.)
3. Disconnect the pillar antenna plug.

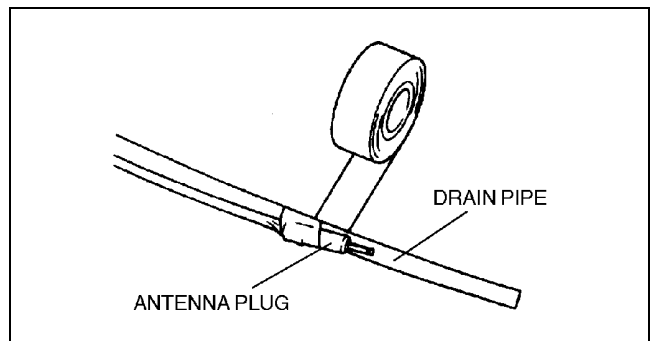


4. Remove the screw and pull out the pillar antenna.



PILLAR ANTENNA INSTALLATION

1. Tape the antenna plug to the antenna drain pipe.
2. Pass the pillar antenna and antenna drain pipe through the A-pillar from the hole in the roof.
3. Install the screws and install the roof antenna.
4. Connect the antenna plug.
5. Install the driver-side front side trim. (See 09-17-13 FRONT SIDE TRIM REMOVAL/INSTALLATION.)
6. Connect the negative battery cable.



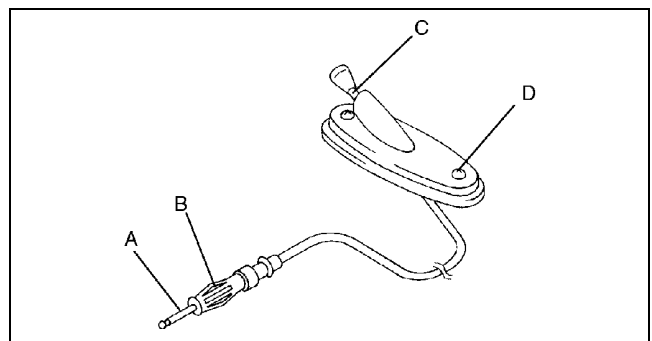
PILLAR ANTENNA INSPECTION

1. Remove the driver-side front side trim. (See 09-17-13 FRONT SIDE TRIM REMOVAL/INSTALLATION.)
2. Disconnect the pillar antenna plug.
3. Verify that there is no continuity between pillar antenna terminal A and B using an ohmmeter.
 - If not as specified, replace the pillar antenna.
4. Inspect for continuity between the pillar antenna terminals using an ohmmeter.
 - If not as specified, replace the pillar antenna.

○—○ : Continuity

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

X3U920WAB



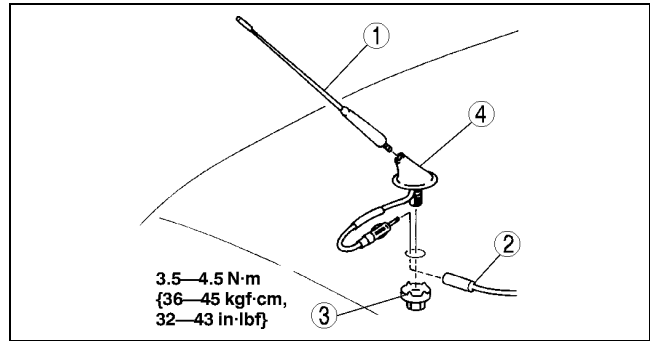
REAR CENTER ROOF ANTENNA REMOVAL/INSTALLATION

A3U092066939W01

1. Disconnect the negative battery cable.
2. Remove the headliner. (See 09-17-16 HEADLINER REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Antenna rod
2	Rear center roof antenna feeder
3	Nut
4	Rear center roof antenna

4. Install in the reverse order of removal.
5. After installation, verify that the rubber of the rear center roof antenna is installed to the roof panel with no space between them.



Y3A8124W001

REAR CENTER ROOF ANTENNA INSPECTION

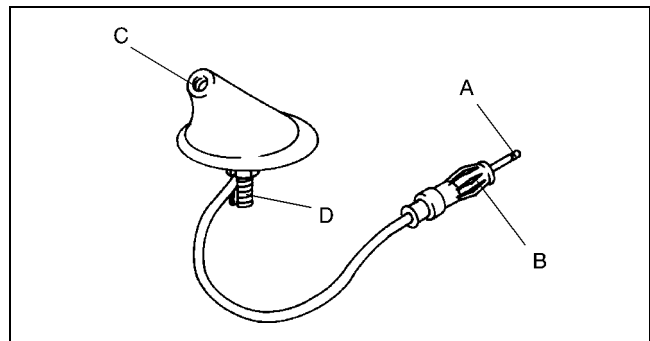
A3U092066939W02

1. Remove the headliner. (See 09-17-16 HEADLINER REMOVAL/INSTALLATION.)
2. Disconnect the rear center roof antenna jack.
3. Remove the antenna rod.
4. Verify that there is no continuity between roof antenna terminals A and B using an ohmmeter.
5. Inspect for continuity between the rear center roof antenna terminals using an ohmmeter.
 - If not as specified, replace the rear center roof antenna.

○—○ : Continuity

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

Y3A8124W002

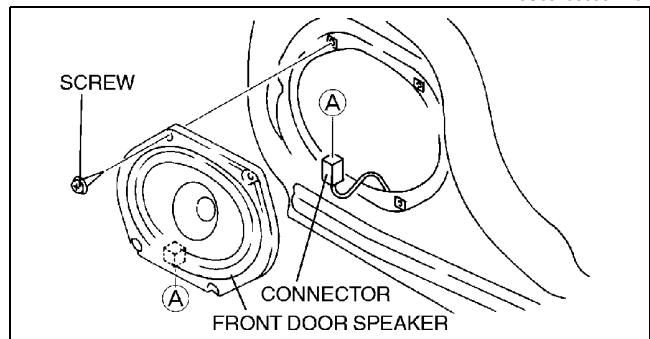


Y3A8124W003

FRONT DOOR SPEAKER REMOVAL/INSTALLATION

A3U092066961W01

1. Disconnect the negative battery cable.
2. Remove the front door trim. (See 09-17-9 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
3. Remove the screws.
4. Disconnect the connector and remove the front door speaker.
5. Install in the reverse order of removal.

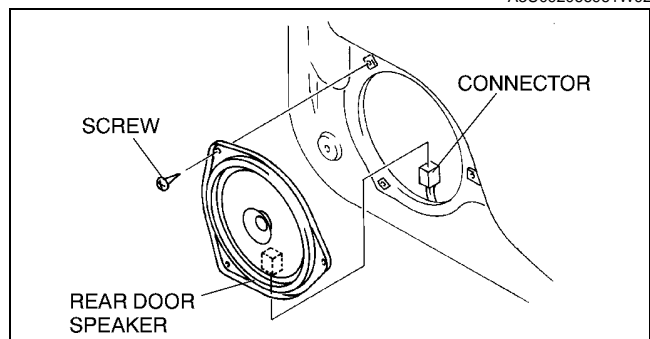


X3U920WA2

REAR DOOR SPEAKER REMOVAL/INSTALLATION

A3U092066961W02

1. Disconnect the negative battery cable.
2. Remove the rear door trim. (See 09-17-9 REAR DOOR TRIM REMOVAL/INSTALLATION.)
3. Remove the screws.
4. Disconnect the connector and remove the rear door speaker.
5. Install in the reverse order of removal.



A3U0920W001

DOOR SPEAKER INSPECTION

A3U092066961W03

1. Remove the door speaker.
2. Inspect for resistance between the door speaker terminals using an ohmmeter.

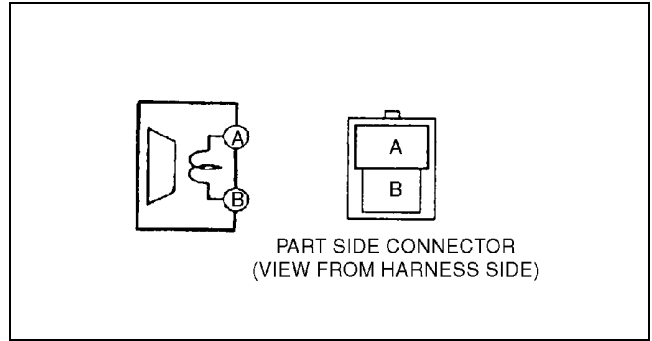
○—W—○ : Resistance

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

R: 4 ohms

Z3U0920W002

3. To verify that the speakers output sound, apply voltage to each speaker and release using a 1.5-V battery.
 - If not as specified, replace the door speaker.

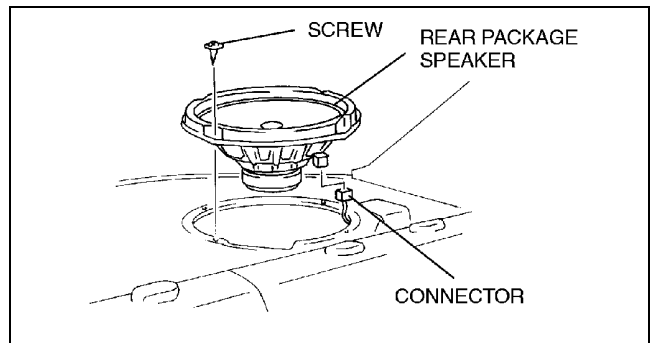


Y3U920WA0

REAR PACKAGE SPEAKER REMOVAL/INSTALLATION

A3U092066964W01

1. Disconnect the negative battery cable.
2. Remove the rear package trim. (See 09-17-12 REAR PACKAGE TRIM REMOVAL/INSTALLATION.)
3. Remove the screws.
4. Disconnect the connector and remove the rear package speaker.
5. Install in the reverse order of removal.



X3U920WA5

REAR PACKAGE SPEAKER INSPECTION

A3U092066964W02

1. Remove the rear package speaker.
2. Inspect for resistance between the rear package speaker terminals using an ohmmeter.

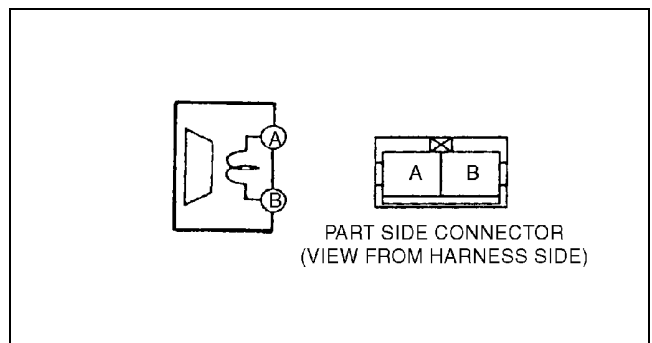
○—W—○ : Resistance

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

R: 4 ohms

Z3U0920W002

3. To verify that the speakers output sound, apply voltage to each speaker and release using a 1.5-V battery.
 - If not as specified, replace the rear package speaker.



Y3U920WA1

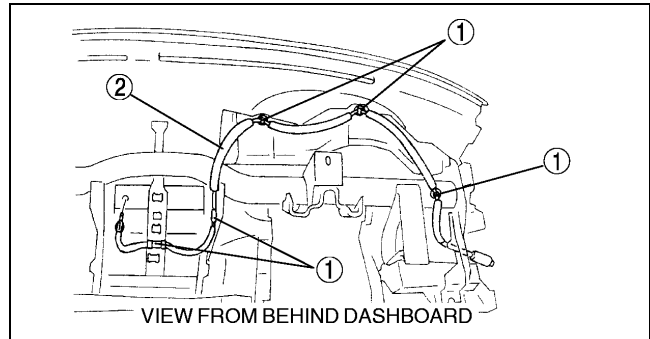
FRONT ANTENNA FEEDER REMOVAL/INSTALLATION

A3U092066941W01

1. Disconnect the negative battery cable.
2. Remove the audio unit. (See 09–20–6 AUDIO UNIT REMOVAL.) (See 09–20–6 AUDIO UNIT INSTALLATION.)
3. Remove the driver-side front side trim. (See 09–17–13 FRONT SIDE TRIM REMOVAL/INSTALLATION.)
4. Disconnect the connection between the pillar antenna and the front antenna feeder.
5. Remove in the order indicated in the table.

1	Clip
2	Front antenna feeder

6. Install in the reverse order of removal.



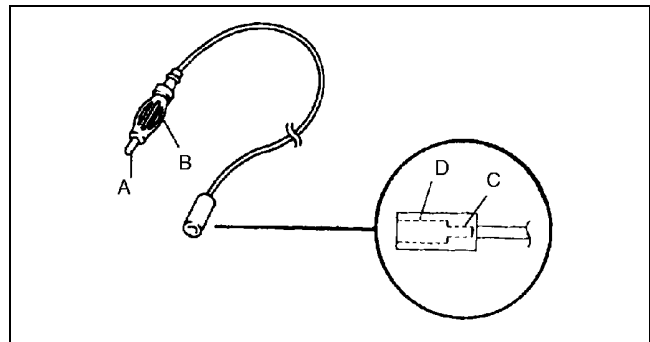
X3U920WAD

FRONT ANTENNA FEEDER INSPECTION

A3U092066941W02

1. Disconnect the negative battery cable.
2. Remove the audio unit. (See 09–20–6 AUDIO UNIT REMOVAL.) (See 09–20–6 AUDIO UNIT INSTALLATION.)
3. Remove the driver-side front side trim. (See 09–17–13 FRONT SIDE TRIM REMOVAL/INSTALLATION.)
4. Disconnect the connection between the pillar antenna and the front antenna feeder.
5. Verify that there is no continuity between the front antenna feeder terminals A and B using an ohmmeter.
 - If not as specified, replace the front antenna feeder.
6. Inspect for continuity between the front antenna feeder terminals using an ohmmeter.
 - If not as specified, replace the front antenna feeder.

09–20



X3U920WAF

○—○ : Continuity

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

X3U920WAE

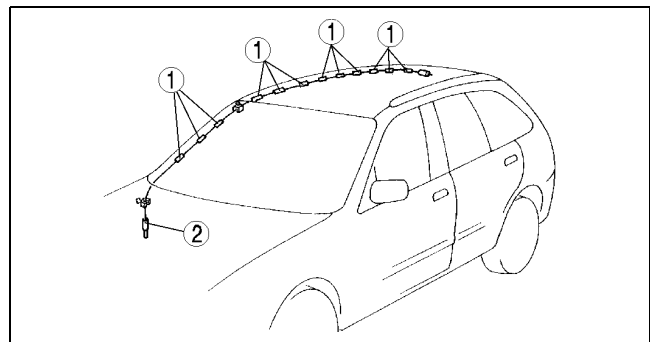
REAR ANTENNA FEEDER REMOVAL/INSTALLATION

A3U092066942W01

1. Disconnect the negative battery cable.
2. Remove the right-side front side trim. (See 09–17–13 FRONT SIDE TRIM REMOVAL/INSTALLATION.)
3. Remove the right-side A-pillar trim. (See 09–17–10 A-PILLAR TRIM REMOVAL/INSTALLATION.)
4. Remove the headliner. (See 09–17–16 HEADLINER REMOVAL/INSTALLATION.)
5. Disconnect the connector between the rear center roof antenna and rear antenna feeder.
6. Disconnect the connector between the front antenna feeder and rear antenna feeder.
7. Remove in the order indicated in the table.

1	Clip
2	Rear antenna feeder

8. Install in the reverse order of removal.



Y3A8124W004

REAR ANTENNA FEEDER INSPECTION

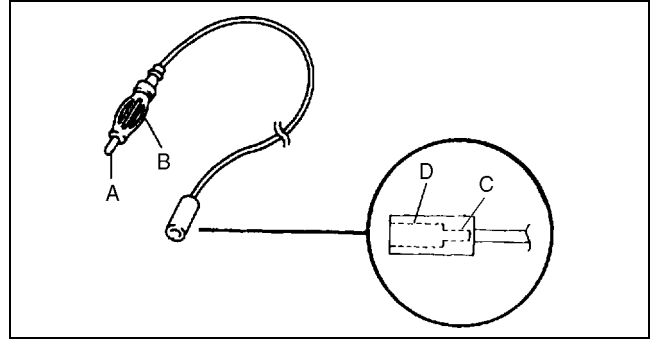
A3U092066942W02

1. Remove the rear antenna feeder.
2. Verify that there is no continuity between rear antenna feeder terminals A and B using an ohmmeter.
3. Inspect for continuity between the rear antenna feeder terminals using an ohmmeter.
 - If not as specified, replace the rear antenna feeder.

○—○ : Continuity

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

Y3A8124W002



A3U0920W101

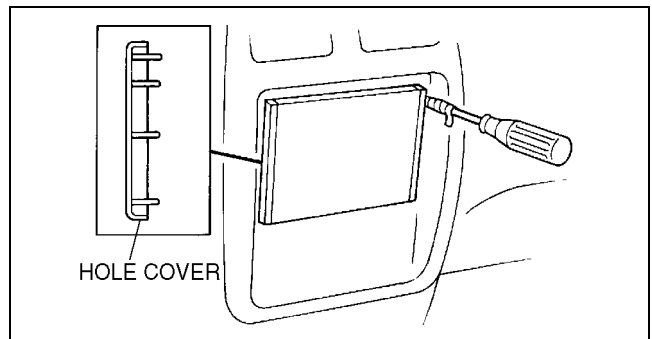
AUDIO UNIT REMOVAL

A3U092066900W01

1. Disconnect the negative battery cable.
2. Remove the hole covers by inserting a small tape-wrapped screwdriver into the slot and carefully pry them off without scratching the center panel. Pry up and pull off the hole covers carefully to prevent the posts from breaking off.
3. With the beveled parts of the **SST** facing inward, insert them into the unit.

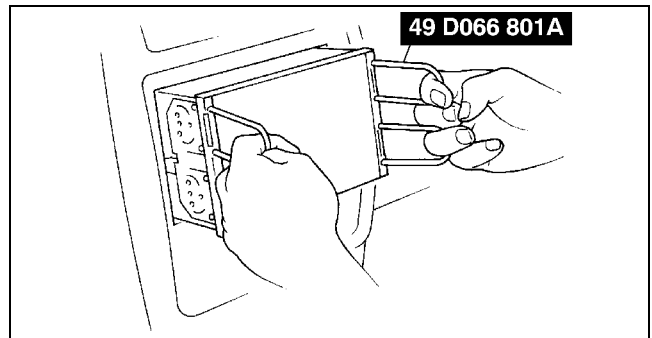
Note

- Two sets of the **SSTs** are necessary to remove the audio unit.



YDE81241201

4. Pull the **SST** outward and forward to slide out the unit.
5. Disconnect the connectors and antenna jack.



YDJ8124W107

AUDIO UNIT INSTALLATION

A3U092066900W02

Caution

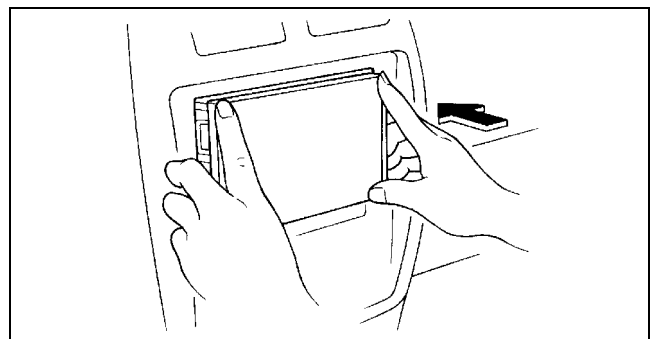
- Make certain that the wiring harness and antenna feeder are not caught between the unit and dashboard. If the harness or the antenna feeder is caught between the unit and dashboard, it may become the cause of trouble or malfunctions.

1. Connect the connectors and antenna jack.
2. Insert the unit until each clip clicks into place.

Caution

- To install audio unit, be sure to push service hole cover areas on both sides of the audio unit. If switches are pressed instead, it may become the cause of trouble or malfunctions.

3. Install the service hole covers.
4. Connect the negative battery cable.



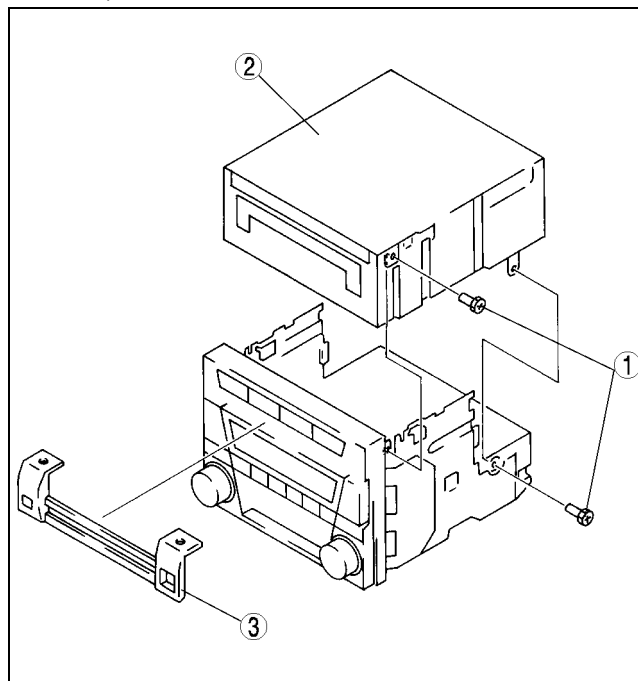
YDJ8124W108

UPPER MODULE REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the audio unit. (See 09-20-6 AUDIO UNIT REMOVAL.)
3. Remove in the order indicated in the table.

1	Screw (See 09-20-7 Screw Installation Note)
2	Upper module (See 09-20-7 Upper Module Removal Note)
3	Cover (See 09-20-7 Cover Removal Note)

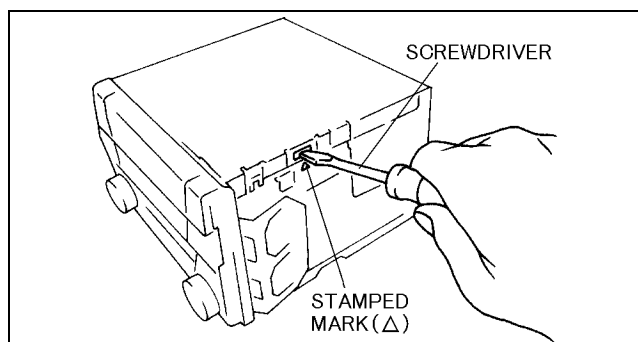
4. Install in the reverse order of removal.



Y5J8124W004

Upper Module Removal Note

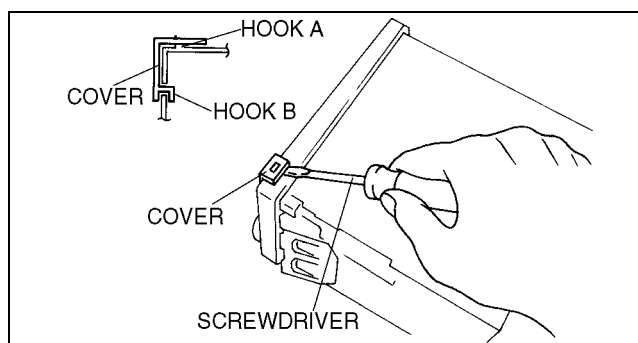
1. Insert a screwdriver into the hole stamped mark.
2. To remove upper module, lift it by pushing down the screwdriver's handle.



YLE8124W005

Cover Removal Note

1. Insert a tape-wrapped screwdriver between the cover and the base unit, then unlatch hook A.
2. To unlatch hook B, pull the cover upward.



YLE8124W006

Screw Installation Note

Caution

- If an undesignated screw is used, the inside of the upper module could be damaged. When installing the module, be sure to use a designated screw (red).

ENTERTAINMENT

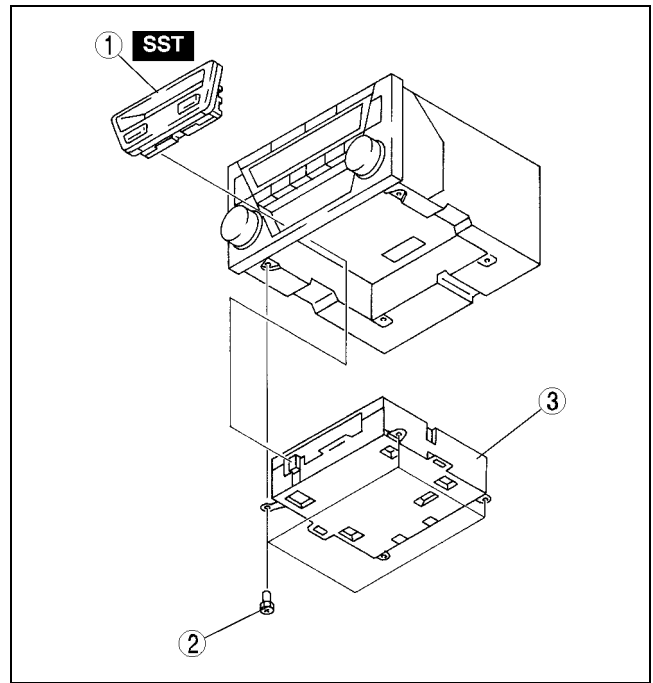
A3U092066900W04

LOWER MODULE REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the audio unit. (See 09-20-6 AUDIO UNIT REMOVAL.)
3. Remove in the order indicated in the table.

1	Cover (See 09-20-8 Cover Removal Note)
2	Screw (See 09-20-8 Screw Installation Note)
3	Lower module

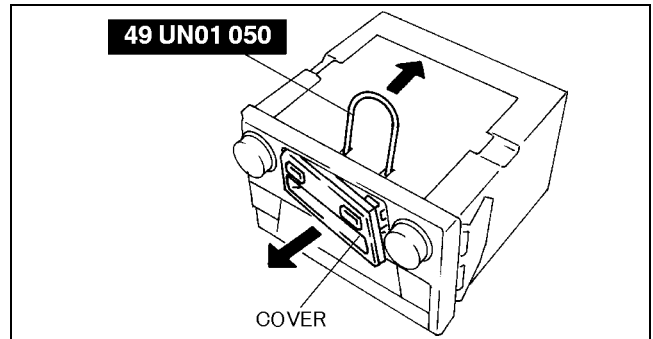
4. Install in the reverse order of removal.



YLE8124W007

Cover Removal Note

1. Insert the **SST** into the service holes on the bottom surface of the lower module.
2. To remove the cover, push the **SST** in the direction shown by the arrow.



ZLU0920W003

Screw Installation Note

Caution

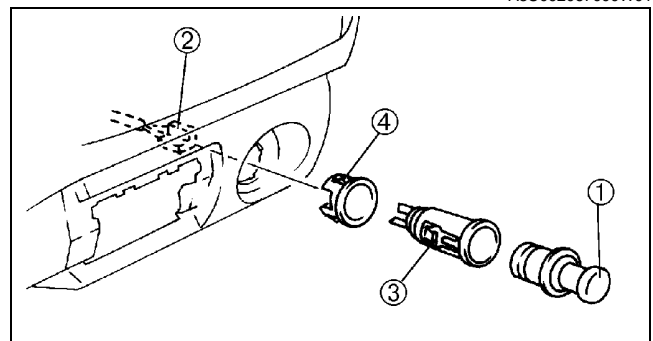
- If an undesignated screw is used, the inside of the upper module could be damaged. When installing the module, be sure to use a designated screw (red).

CIGARETTE LIGHTER REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the console. (See 09-17-5 CONSOLE REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.

1	Cigarette lighter plug
2	Connector
3	Socket (See 09-20-9 Socket Removal Note)
4	Ring (See 09-20-9 Ring Removal Note)

4. Install in the reverse order of removal.

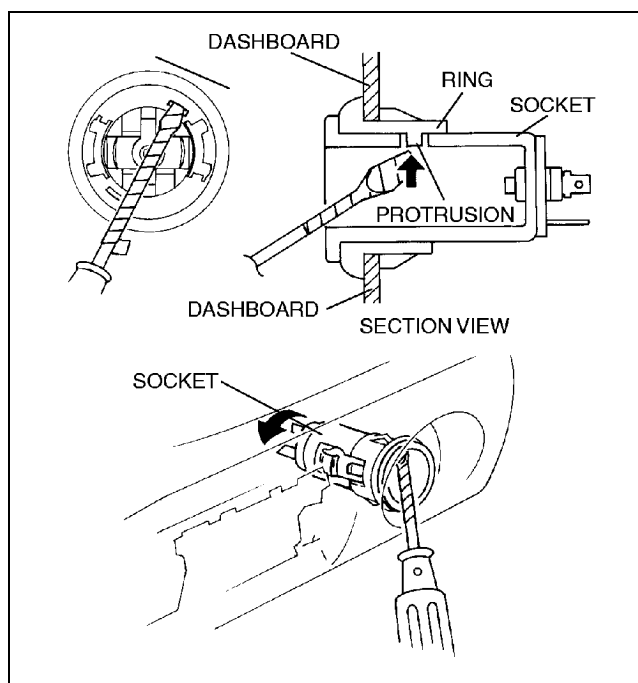


A3U092067000W01

X3U920WAG

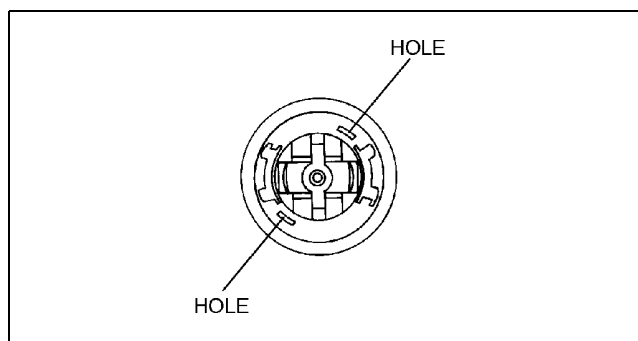
Socket Removal Note

1. Turn the socket while pushing the protrusion of the ring through the hole of the socket with a tape-wrapped screwdriver.
2. Push the socket forward.



X3U920WAH

3. Return the socket clockwise to original angle position as shown to pull it out forward.

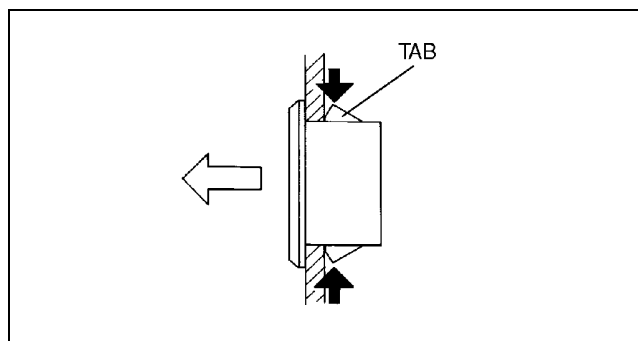


X3U920WAJ

09-20

Ring Removal Note

1. Pull the ring forward while pushing the tabs.



Y3U920WA3

CIGARETTE LIGHTER INSPECTION

A3U092067000W02

1. Turn the ignition switch to ACC position.
2. Verify that the cigarette lighter plug will move normally within **10—20 seconds**, after pressing the plug into the socket.
 - If the cigarette lighter does not operate normally, replace the cigarette lighter and socket. (See 09-20-8 CIGARETTE LIGHTER REMOVAL/INSTALLATION.)

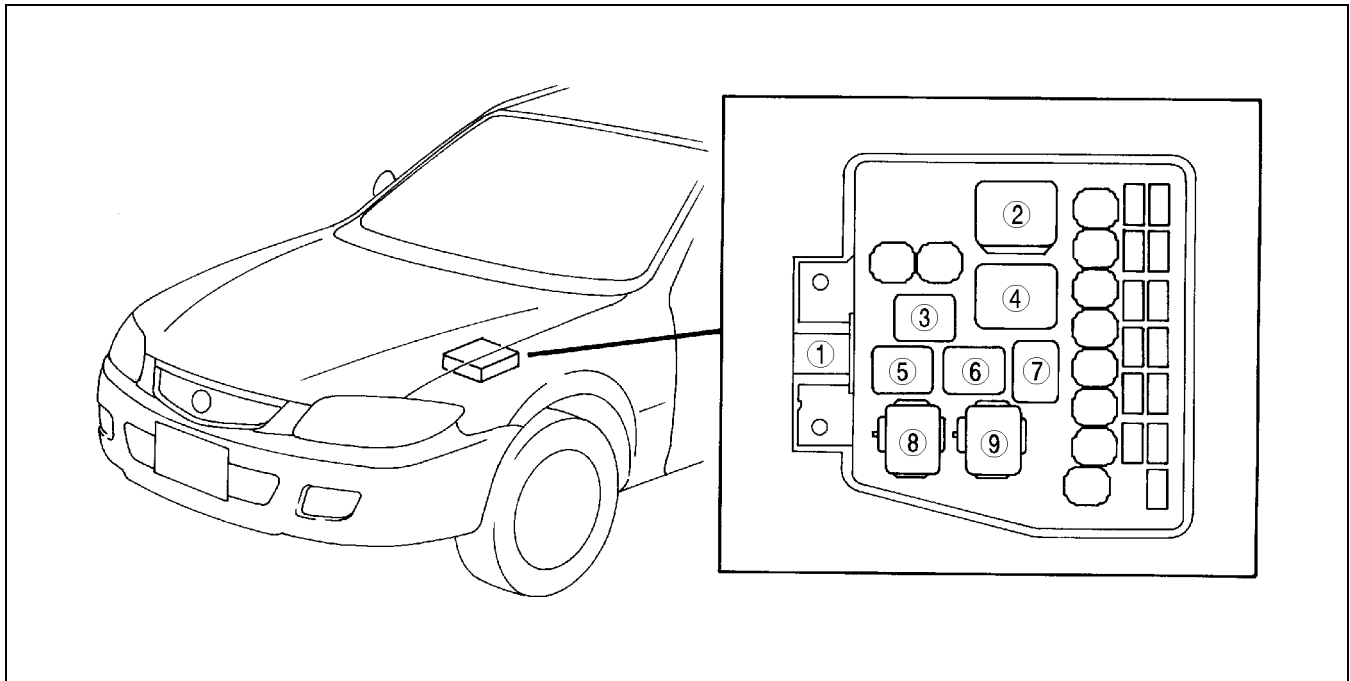
09-21 POWER SYSTEMS

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A3U092101072W01



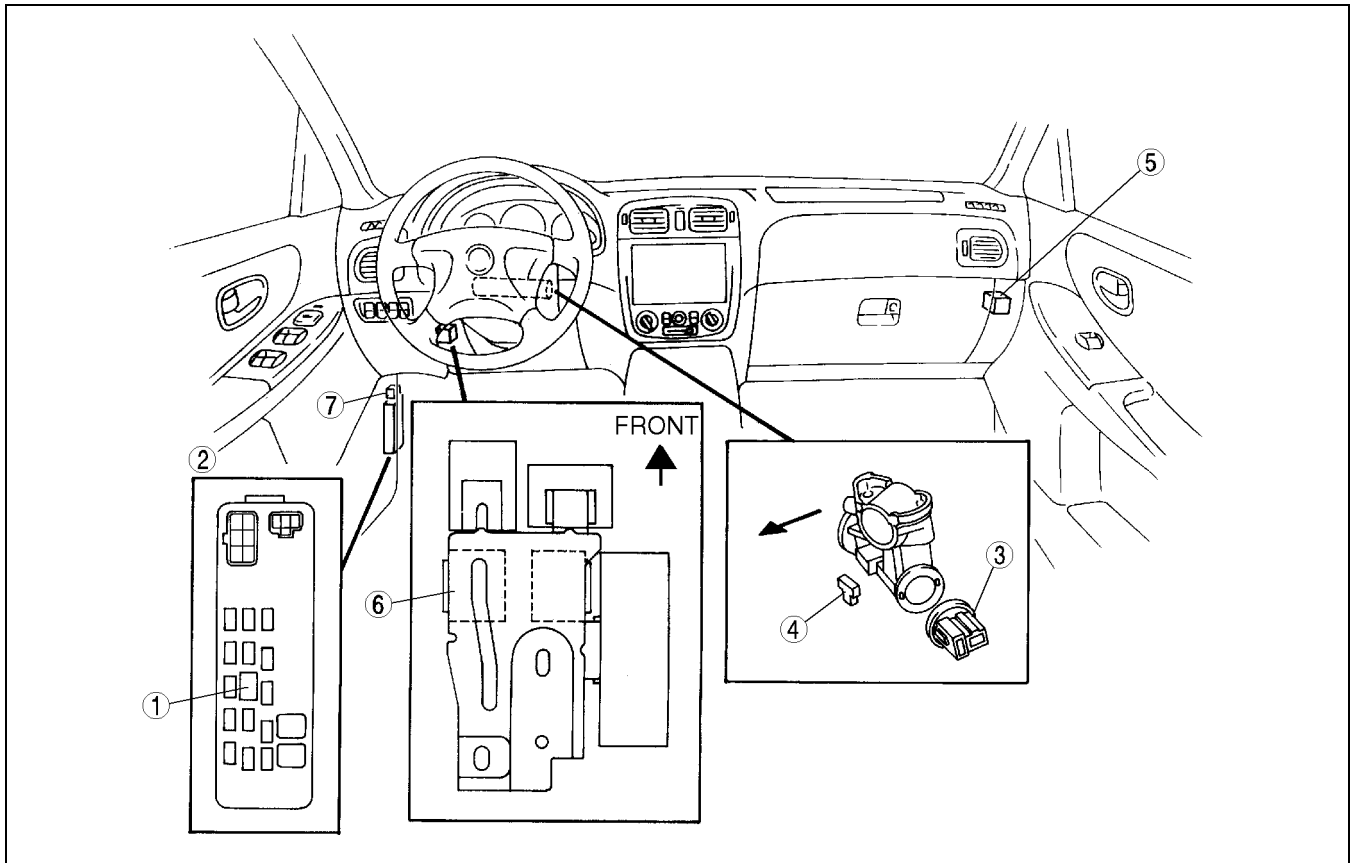
Z3U0921W007

1	Main fuse (See 09-21-2 MAIN FUSE REMOVAL/ INSTALLATION)
2	Fuel pump relay (See 09-21-5 RELAY INSPECTION)
3	A/C relay (See 09-21-5 RELAY INSPECTION)
4	Main relay (See 09-21-5 RELAY INSPECTION)

5	TNS relay (See 09-21-5 RELAY INSPECTION)
6	Horn relay (See 09-21-5 RELAY INSPECTION)
7	Headlight relay (See 09-21-5 RELAY INSPECTION)
8	Cooling fan relay (See 09-21-5 RELAY INSPECTION)
9	Condenser fan relay (See 09-21-5 RELAY INSPECTION)

09-21

POWER SYSTEMS



Z3U0921W008

1	Room fuse (See 09-21-3 ROOM FUSE INSTALLATION)
2	Fuse block (See 09-21-3 FUSE BLOCK REMOVAL/ INSTALLATION)
3	Ignition switch (See 09-21-3 IGNITION SWITCH REMOVAL/ INSTALLATION) (See 09-21-4 IGNITION SWITCH INSPECTION)

4	Key reminder switch (See 09-21-4 KEY REMINDER SWITCH REMOVAL/INSTALLATION) (See 09-21-4 KEY REMINDER SWITCH INSPECTION)
5	Blower relay (See 09-21-5 RELAY INSPECTION)
6	Front fog light relay (See 09-21-5 RELAY INSPECTION)
7	Rear window defroster relay (See 09-21-5 RELAY INSPECTION)

FUSE SERVICE CAUTION

A3U092166000W01

Caution

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

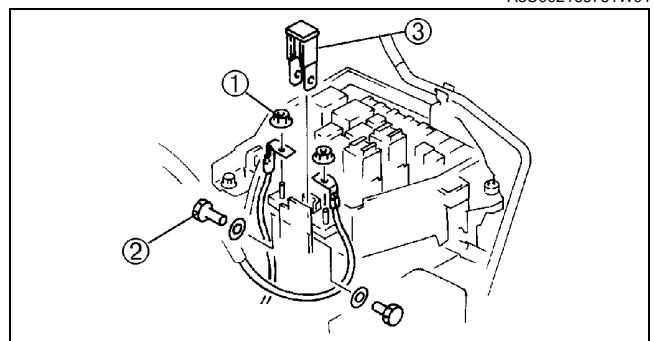
MAIN FUSE REMOVAL/INSTALLATION

A3U092166761W01

1. Disconnect the negative battery cable.
2. Remove the main fuse block cover.
3. Remove in the order indicated in the table.

1	Nut
2	Bolt
3	Main fuse

4. Install in the reverse order of removal.



X3U921WA0

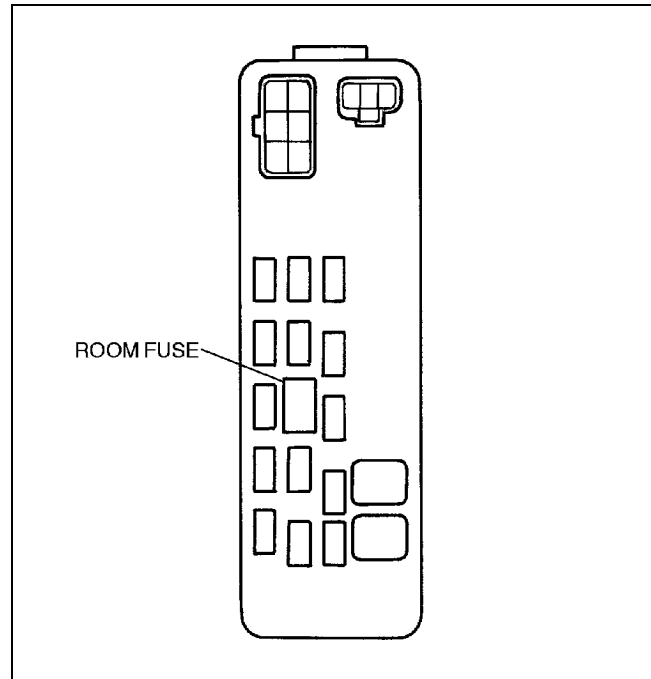
ROOM FUSE INSTALLATION

A3U092166731W01

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 position, the malfunction indicator lamp will continue to illuminate.

- Turn the ignition switch to LOCK position.
- Install the ROOM 10 A fuse.



X3U921WA1

09-21

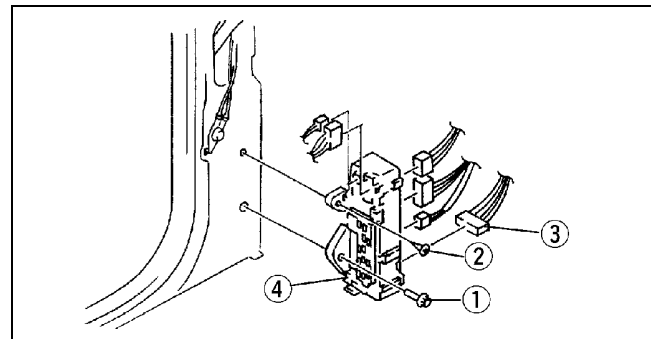
FUSE BLOCK REMOVAL/INSTALLATION

A3U092166730W01

- Disconnect the negative battery cable.
- Remove the driver-side front side trim. (See 09-17-13 FRONT SIDE TRIM REMOVAL/INSTALLATION.)
- Remove in the order indicated in the table.

1	Bolt
2	Screw
3	Connector
4	Fuse block

- Install in the reverse order of removal.



X3U921WA8

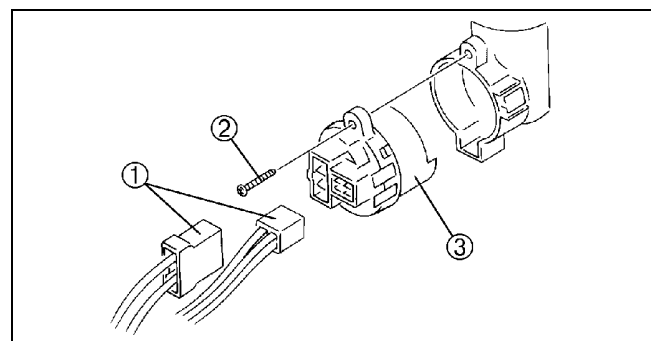
IGNITION SWITCH REMOVAL/INSTALLATION

A3U092166151W01

- Disconnect the negative battery cable.
- Remove the column cover.
- Remove in the order indicated in the table.

1	Connector
2	Screw
3	Ignition switch

- Install in the reverse order of removal.



X3U921WA2

POWER SYSTEMS

IGNITION SWITCH INSPECTION

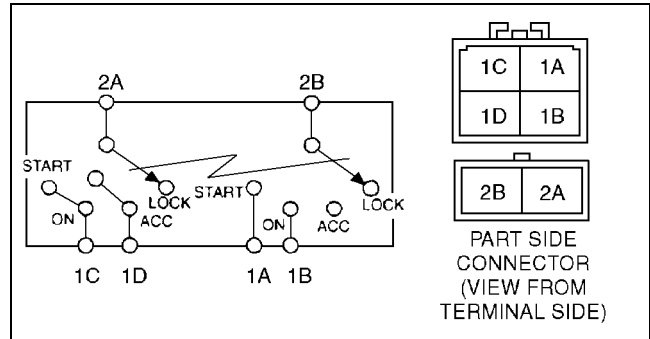
A3U092166151W02

1. Disconnect the negative battery cable.
2. Remove the column cover.
3. Disconnect the ignition switch connectors.
4. Inspect for continuity between the ignition switch terminals using an ohmmeter.
 - If not as specified, replace the ignition switch.

○—○ : Continuity

Ignition key position	Terminal					
	2A	2B	1D	1C	1B	1A
LOCK						
ACC	○—○		○—○			
ON	○—○	○—○	○—○	○—○	○—○	
START	○—○	○—○		○—○		○—○

X3U921WA3

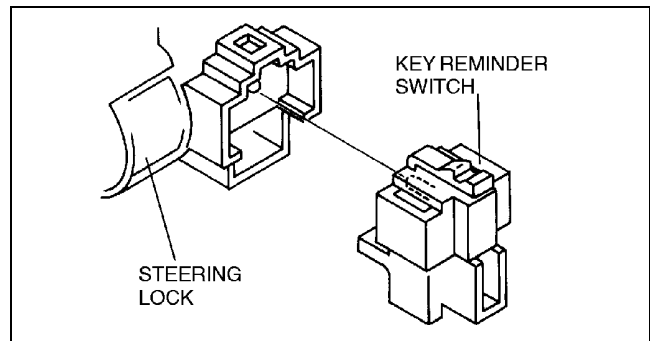


Z3U0921W001

KEY REMINDER SWITCH REMOVAL/INSTALLATION

A3U092166152W01

1. Disconnect the negative battery cable.
2. Remove the column cover.
3. Disconnect the key reminder switch connector.
4. Remove the key reminder switch.
5. Install in the reverse order of removal.



X3U921WA5

KEY REMINDER SWITCH INSPECTION

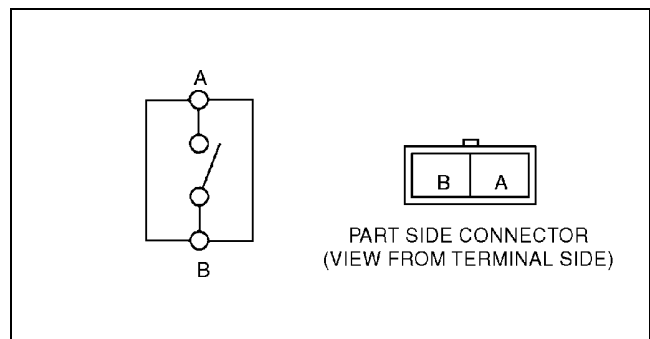
A3U092166152W02

1. Disconnect the negative battery cable.
2. Remove the column cover.
3. Disconnect the key reminder switch connector.
4. Inspect for continuity between the key reminder switch terminals using an ohmmeter.
 - If not as specified, replace the key reminder switch.

○—○ : Continuity

Key position	Terminal	
	A	B
key inserted	○—○	○—○
key removed		

X3U921WA6



Y3U921WA1

RELAY INSPECTION

A3U092167742W01

Relay type

Terminal type		Parts name
Four-terminal	Type A	<ul style="list-style-type: none"> • Front fog light relay • A/C relay • Condenser fan relay No.1 • Condenser fan relay No.2 • Cooling fan relay No.2 (KJ) • Cooling fan relay No.3 (KJ) • Rear window defroster relay • TNS relay • Woofer relay • Trunk lid opener relay • Seat warmer relay • Power window relay • Main relay
	Type B	<ul style="list-style-type: none"> • Horn relay
	Type C	<ul style="list-style-type: none"> • Starter cut relay
	Type D	<ul style="list-style-type: none"> • Fuel pump relay
Five-terminal	Type A	<ul style="list-style-type: none"> • DRL relay • Cooling fan relay (KL) • Cooling fan relay No.1 (KJ)
	Type B	<ul style="list-style-type: none"> • Headlight relay • Blower relay
Eight-terminal		<ul style="list-style-type: none"> • Sunroof relay

Four-terminal

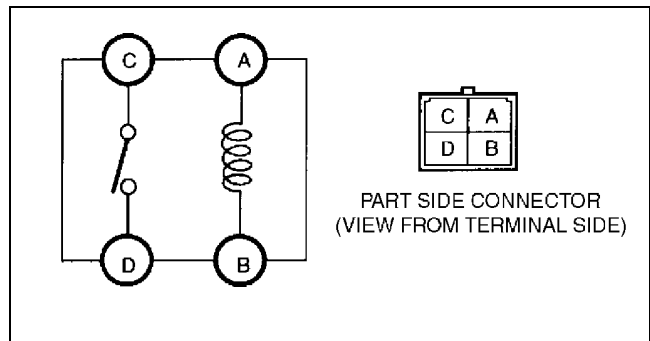
Type A

1. Remove the relay.
2. Inspect for continuity between the relay terminals using an ohmmeter.
 - If not as specified, replace the relay.

○—○: Continuity

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

ZLU0921W004



ZLU0921W003

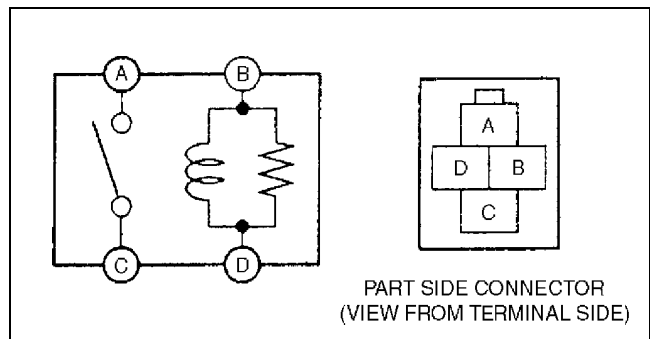
Type B

1. Remove the relay.
2. Inspect for continuity between the relay terminals using an ohmmeter.
 - If not as specified, replace the relay.

○—○: Continuity

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

ZLU0921W002



ZLU0921W001

POWER SYSTEMS

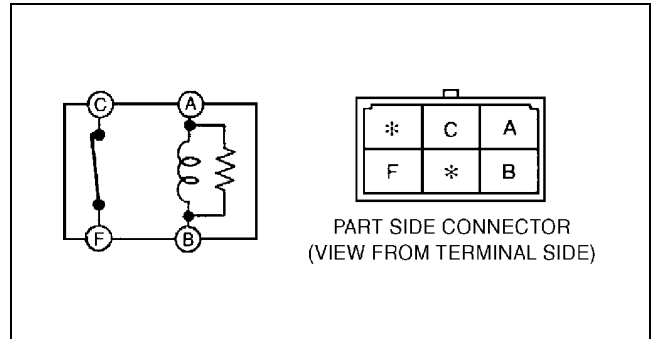
Type C

1. Remove the relay.
2. Inspect for continuity between the relay terminals using an ohmmeter.
 - If not as specified, replace the relay.

○—○: Continuity

Step	Terminal			
	A	B	C	F
1	○—○	○—○	○—○	○—○
2	B+	GND		

ZLU0921W006



ZLU0921W005

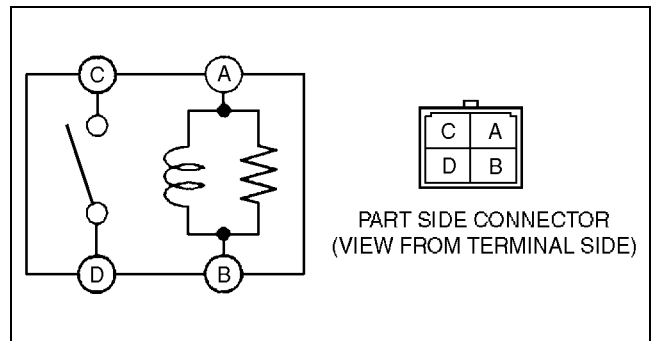
Type D

1. Remove the relay.
2. Inspect for continuity between the relay terminals using an ohmmeter.
 - If not as specified, replace the relay.

○—○: Continuity

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

ZLU0921W007



ZLU0921WA0

Five-terminal

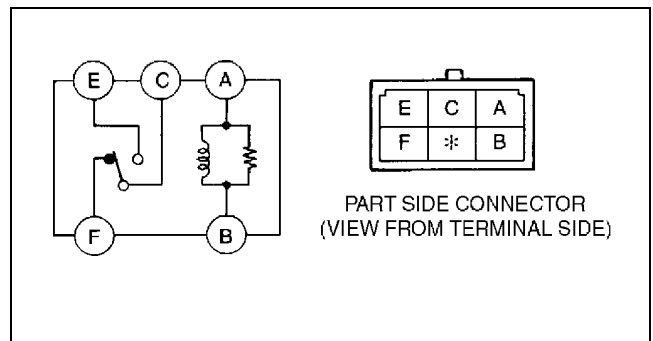
Type A

1. Remove the relay.
2. Inspect for continuity between the relay terminals using an ohmmeter.
 - If not as specified, replace the relay.

○—○: Continuity

Step	Terminal				
	A	B	E	C	F
1	○—○	○—○		○—○	○—○
2	GND	B+	○—○	○—○	

ZLU0921W009



ZLU0921W008

POWER SYSTEMS

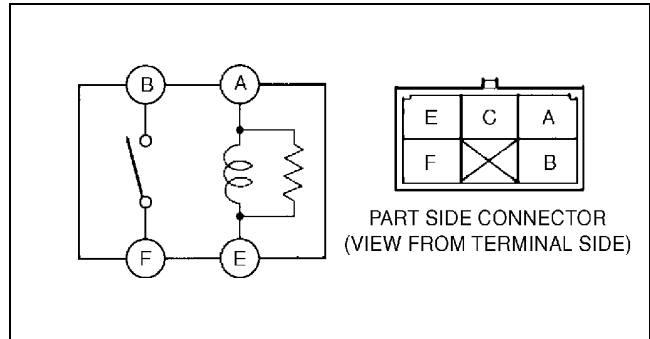
Type B

1. Remove the relay.
2. Inspect for continuity between the relay terminals using an ohmmeter.
 - If not as specified, replace the relay.

○—○: Continuity

Step	Terminal			
	A	E	B	F
1	○—○	○—○		
2	GND	B+	○—○	○—○

ZLU0921W011



ZLU0921W010

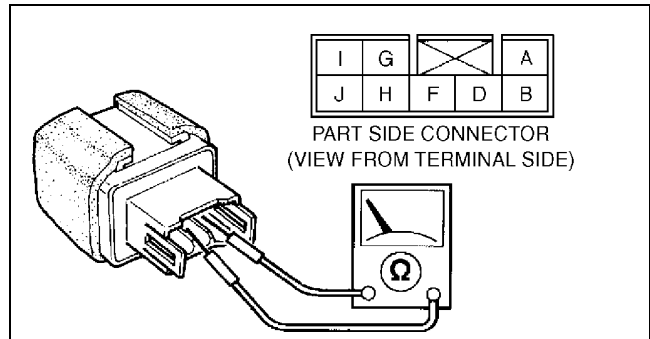
Eight-terminal

1. Remove the relay.
2. Inspect for continuity between the relay terminals using an ohmmeter.
 - If not as specified, replace the relay.

○—○: Continuity

Connection		Terminal			
B+	GND	A	D	G	I
—	—	○—○	○—○		○—○
H	J	○—○	○—○	○—○	○—○
F	B	○—○	○—○	○—○	○—○

ZLU0921W013



ZLU0921W012

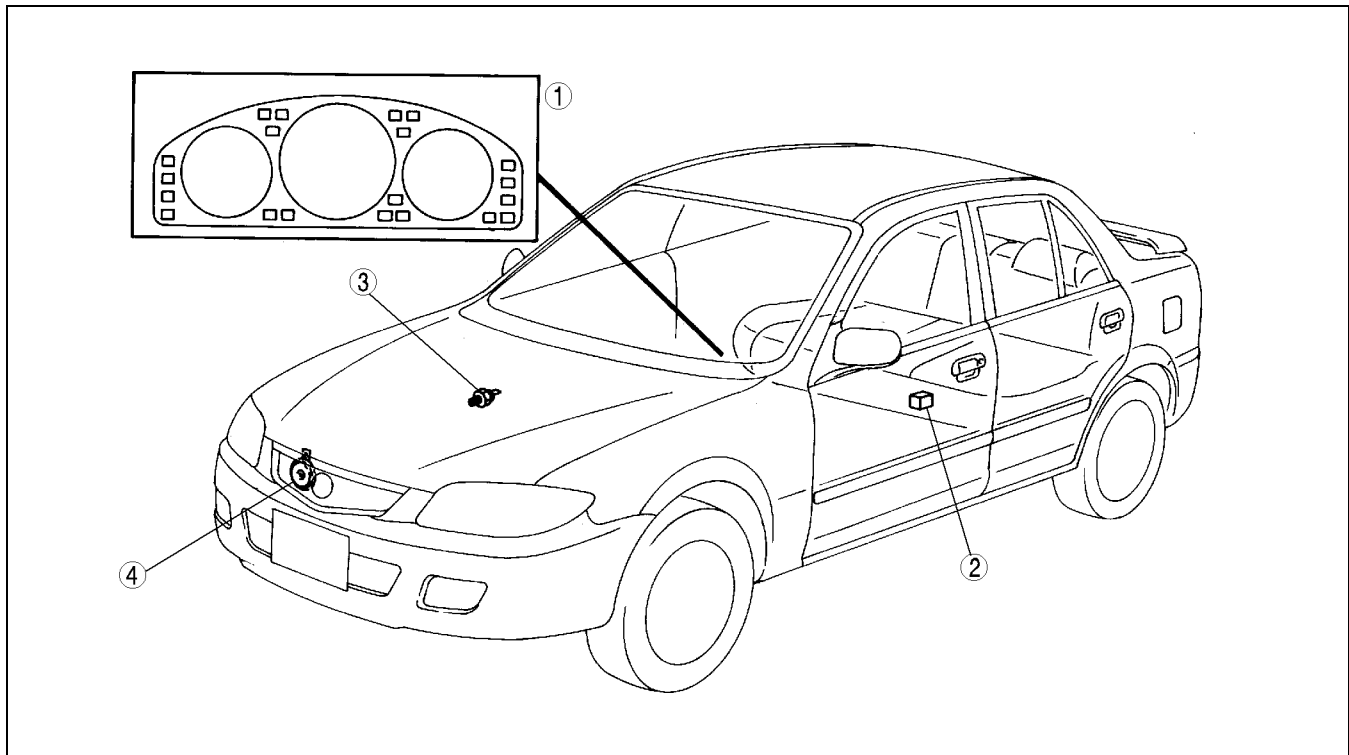
09-22 INSTRUMENTATION/DRIVER INFO.

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Z3U0922W003

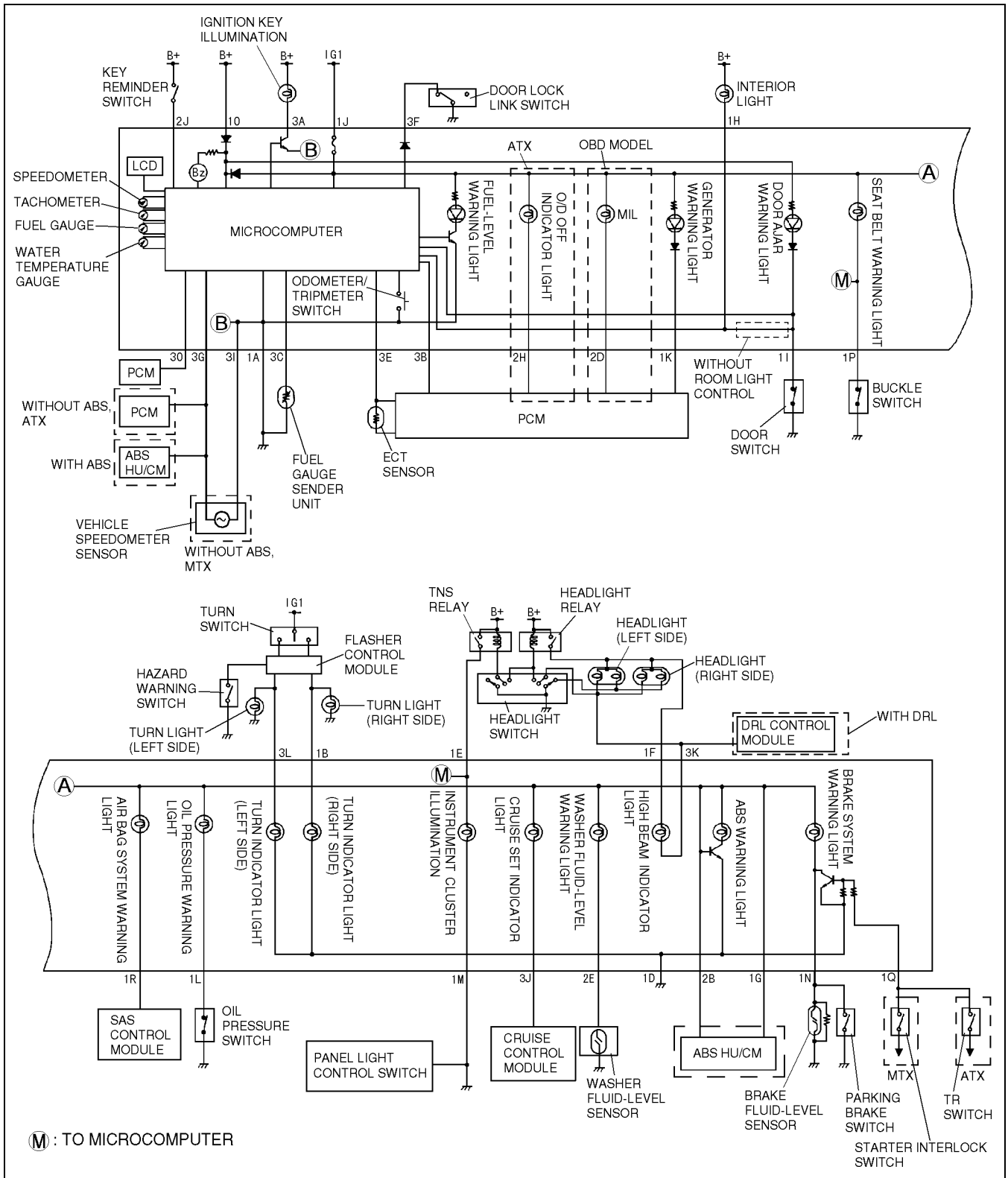
1	Instrument cluster (See 09-22-3 INSTRUMENT CLUSTER REMOVAL/INSTALLATION) (See 09-22-3 INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY) (See 09-22-4 INSTRUMENT CLUSTER INSPECTION) (See 09-22-4 INSTRUMENT CLUSTER REPAIR) (See 09-22-5 INSTRUMENT CLUSTER INPUT/ OUTPUT CHECK MODE) (See 09-22-13 WARNING AND INDICATOR LIGHT BULB REMOVAL/INSTALLATION)
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2	Fuel gauge sender unit (See 09-22-13 FUEL GAUGE SENDER UNIT INSPECTION)
3	Oil pressure switch (See 09-22-13 OIL PRESSURE SWITCH INSPECTION)
4	Horn (See 09-22-13 HORN REMOVAL/INSTALLATION)

INSTRUMENTATION/DRIVER INFO.

INSTRUMENT CLUSTER SYSTEM WIRING DIAGRAM

A3U092255430W01



Z3U0922W005

INSTRUMENTATION/DRIVER INFO.

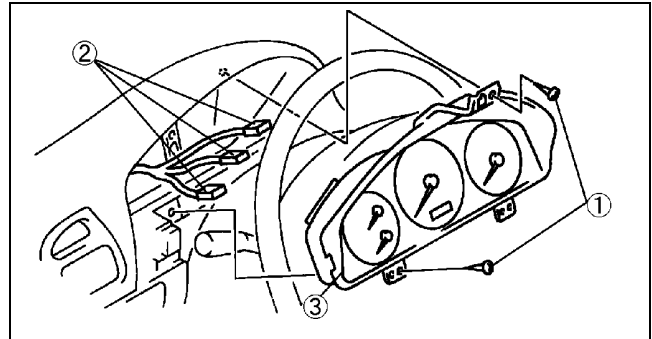
INSTRUMENT CLUSTER REMOVAL/INSTALLATION

A3U092255430W02

1. Disconnect the negative battery cable.
2. Pull down the adjusting lever of the tilt steering wheel and push the steering wheel down.
3. Remove the meter hood.
4. Remove in the order indicated in the table.

1	Screw
2	Connector
3	Instrument cluster (See 09-22-3 Instrument Cluster Removal Note)

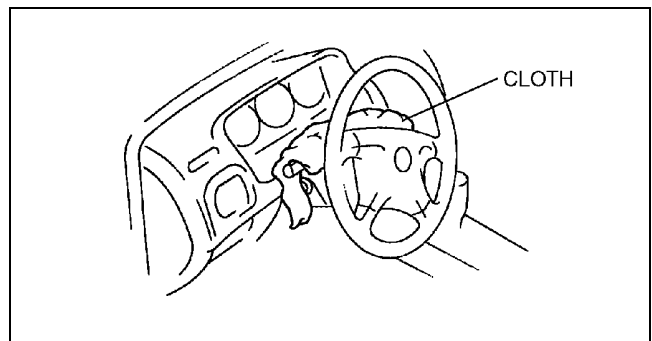
5. Install in the reverse order of removal.



X3U922WA0

Instrument Cluster Removal Note

1. When removing the instrument cluster, in order to prevent damage to the lens, cover the steering shaft with a cloth.



X3U922WA1

09-22

INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY

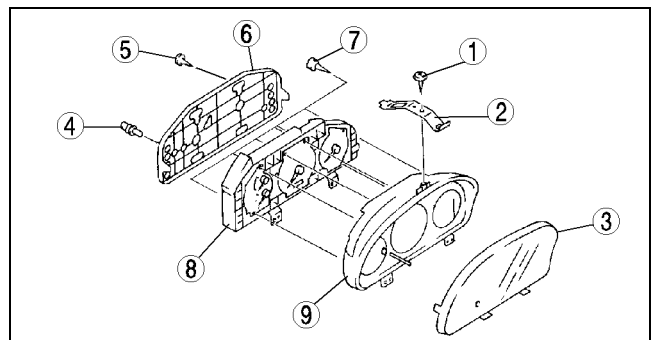
A3U092255430W03

Caution

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

1. Disassemble in the order indicated in the table.

1	Screw
2	Bracket
3	Lens
4	Bulb
5	Screw
6	Cover
7	Screw
8	Instrument cluster
9	Case



Z3U0922W001

2. Assemble in the reverse order of disassembly.

INSTRUMENTATION/DRIVER INFO.

INSTRUMENT CLUSTER INSPECTION

A3U092255430W04

Speedometer

1. Inspect the speedometer by setting it in the input/output check mode DTC 12. (See 09-22-5 INSTRUMENT CLUSTER INPUT/OUTPUT CHECK MODE.)

Tachometer

1. Inspect the tachometer by setting it in the input/output check mode DTC 13. (See 09-22-5 INSTRUMENT CLUSTER INPUT/OUTPUT CHECK MODE.)

Fuel Gauge

1. Inspect the fuel gauge by setting it in the input/output check mode DTC 23. (See 09-22-5 INSTRUMENT CLUSTER INPUT/OUTPUT CHECK MODE.)

Water Temperature Gauge

1. Inspect the water temperature gauge by setting it in the input/output check mode DTC 25. (See 09-22-5 INSTRUMENT CLUSTER INPUT/OUTPUT CHECK MODE.)

INSTRUMENT CLUSTER REPAIR

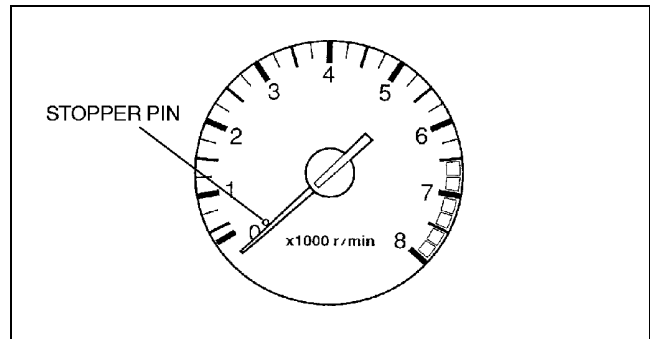
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Tachometer

Note

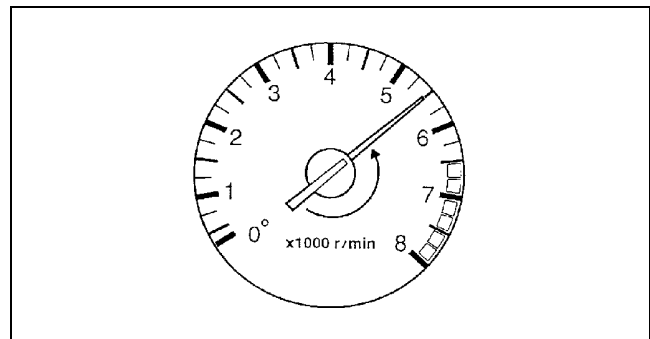
- The tach needle will not return to zero if the engine is turned off while the engine speed is **4,000 rpm** or higher when the ROOM fuse is not installed. The tach needle will continue to rotate clockwise until it rests on the wrong side of the stopper pin. If a customer complains of this concern, inspect the ROOM fuse and if necessary, repair according to the following steps.

1. Verify the concern.
2. Verify that the ROOM fuse is installed.

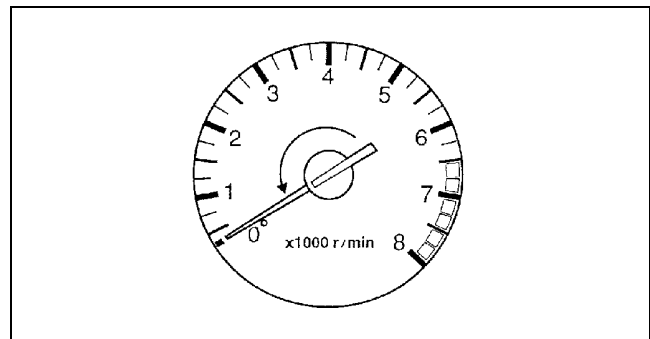


X3U922WC0

3. Start the engine and increase the engine speed to **approximately 5,500 rpm** or until the needle begins to move away from the stopper pin (counterclockwise).
4. Decrease the engine speed to idle and turn the ignition switch to LOCK position.
5. Verify that the needle returns to zero.
 - If the needle does not return to zero, remove the lens and carefully move the needle by hand.



X3U922WC1



X3U922WC2

INSTRUMENTATION/DRIVER INFO.

INSTRUMENT CLUSTER INPUT/OUTPUT CHECK MODE

A3U092255430W06

Note

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

DTC Chart

DTC	Checking item	Related item
01	Buckle switch	Buckle switch
04	Door switch	<ul style="list-style-type: none"> • Ignition key illumination • Room light control • Power door lock system • Lights-on reminder warning buzzer
05	Door lock-link switch	Room light control
08	TNS relay	<ul style="list-style-type: none"> • Lights-on reminder warning buzzer • Each illumination
10	<p>With ABS</p> <ul style="list-style-type: none"> • ABS HU/CM (vehicle speed signal) <p>Without ABS, MTX</p> <ul style="list-style-type: none"> • Vehicle speedometer sensor (vehicle speed signal) <p>Without ABS, ATX</p> <ul style="list-style-type: none"> • PCM (vehicle speed signal) 	Speedometer
11	PCM (engine speed signal)	Tachometer
12	Speedometer	Speedometer
13	Tachometer	Tachometer
14	Buzzer	<ul style="list-style-type: none"> • Lights-on reminder warning buzzer • Key reminder warning buzzer
16	Fuel-level warning light	Fuel-level warning light
22	Fuel gauge sender unit	Fuel gauge
23	Fuel gauge	Fuel gauge
24	ECT sensor	Water temperature gauge
25	Water temperature gauge	Water temperature gauge
26	LCD	LCD
27	Interior light	Room light control
31	Key reminder switch	<ul style="list-style-type: none"> • Room light control • Keyless entry system

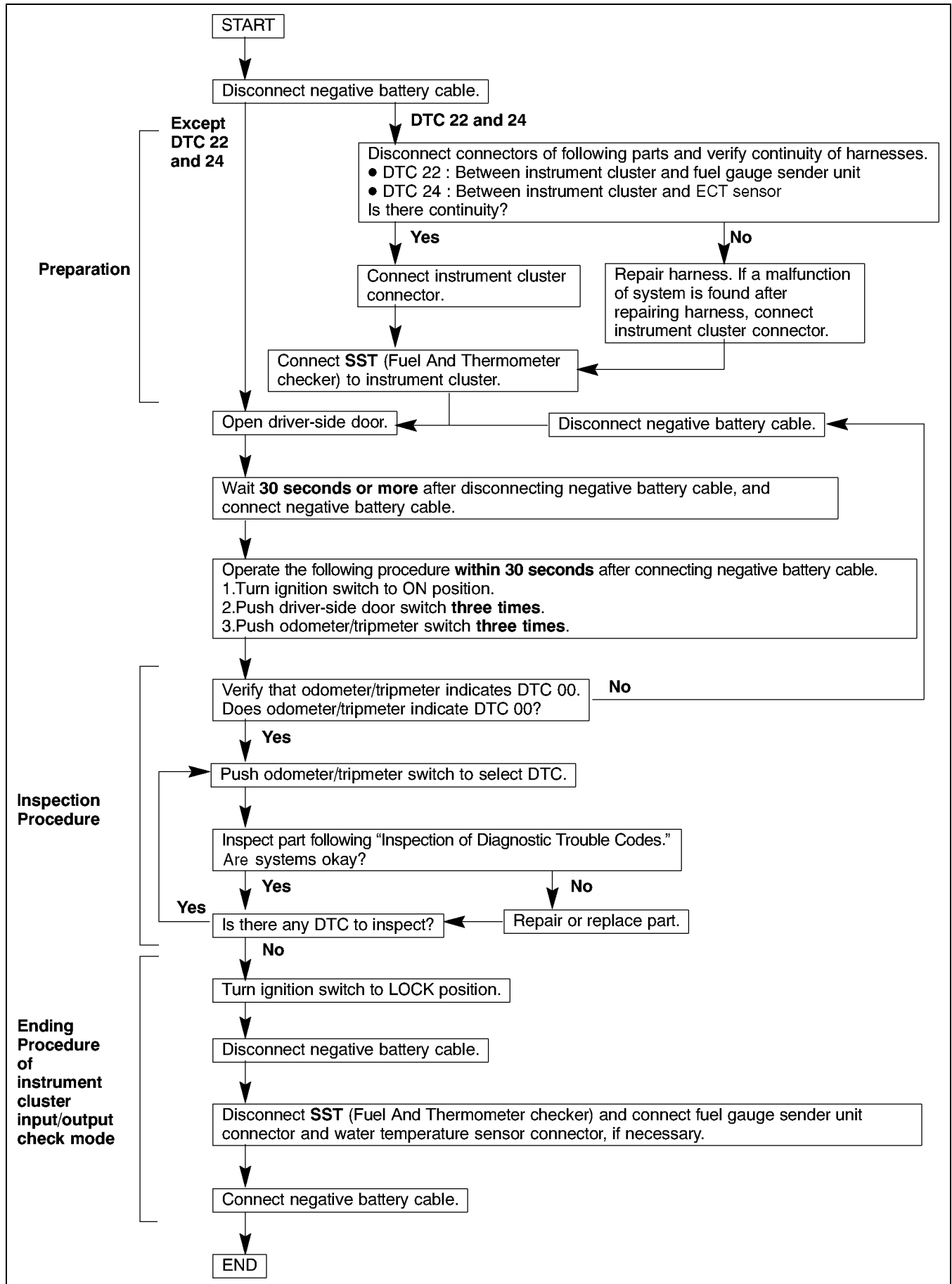
09-22

Note

- The diagnostic trouble codes are displayed in numerical order. (While performing the inspection, if you want to inspect a diagnostic trouble code number which is smaller than the code number you are currently inspecting, terminate the check mode then repeat the inspection from the beginning.)
- If the speed signal is put into the instrument cluster (the front wheels are rotated) while a code other than DTC 10 is displayed, the input/output check mode will be cancelled.
- The diagnostic trouble codes can be fast-forwarded by pushing and holding the odometer/tripmeter switch for **1 second or more**.

INSTRUMENTATION/DRIVER INFO.

Operating Order



Z3U0922W002

INSTRUMENTATION/DRIVER INFO.

Checking Order

Note

- When inspecting more than two check codes, perform the inspection by following the priority order of inspection indicated in the chart below.

Priority order of inspection	IG switch position	Check code
1	ON	22, 24
2		01, 04, 05, 08, 10, 11, 12, 13, 14, 16, 23, 25, 26, 27
3	LOCK	31

Inspection of DTCs

DTC 01 Buckle switch on/off signal			
STEP	INSPECTION	INDICATION	ACTION
1	Unfasten driver-side seat belt. (Buckle switch on.)	ON	Go to next step.
		OFF	<ul style="list-style-type: none"> Inspect buckle switch. (See 08–11–5 BUCKLE SWITCH INSPECTION) Inspect wiring harness. (Instrument cluster — buckle switch)
2	Fasten driver-side seat belt. (Buckle switch off.)	ON	<ul style="list-style-type: none"> Inspect buckle switch. (See 08–11–5 BUCKLE SWITCH INSPECTION) Inspect wiring harness. (Instrument cluster — buckle switch)
		OFF	Input signal to instrument cluster is okay.

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DTC 04 Door switch on/off signal			
STEP	INSPECTION	INDICATION	ACTION
1	Open driver-side door. (Door switch on.)	ON	Close driver-side door, then go to next step.
		OFF	<ul style="list-style-type: none"> Inspect door switch. (See 09–18–25 DOOR SWITCH INSPECTION) Inspect wiring harness. (Instrument cluster — door switch)
2	Open passenger-side door. (Door switch on.)	ON	Close passenger-side door, then go to next step.
		OFF	<ul style="list-style-type: none"> Inspect door switch. (See 09–18–25 DOOR SWITCH INSPECTION) Inspect wiring harness. (Instrument cluster — door switch)
3	Open rear door on driver-side. (Door switch on.)	ON	Close rear door on driver-side, then go to next step.
		OFF	<ul style="list-style-type: none"> Inspect door switch. (See 09–18–25 DOOR SWITCH INSPECTION) Inspect wiring harness. (Instrument cluster — door switch)

INSTRUMENTATION/DRIVER INFO.

DTC 04 Door switch on/off signal			
STEP	INSPECTION	INDICATION	ACTION
4	Open rear door on passenger-side. (Door switch on.)	ON	Close rear door on passenger-side, then go to next step.
		OFF	<ul style="list-style-type: none"> Inspect door switch. (See 09-18-25 DOOR SWITCH INSPECTION) Inspect wiring harness. (Instrument cluster — door switch)
5	Close all doors. (Door switch off.)	ON	<ul style="list-style-type: none"> Inspect door switch. (See 09-18-25 DOOR SWITCH INSPECTION) Inspect wiring harness. (Instrument cluster — door switch)
		OFF	Input signals to instrument cluster are okay.

DTC 05 Door lock-link switch on/off signal			
STEP	INSPECTION	INDICATION	ACTION
1	Turn driver-side door lock knob to lock position. (Door lock-link switch to lock position.)	ON	Go to next step.
		OFF	<ul style="list-style-type: none"> Inspect door lock-link switch. (See 09-14-4 DOOR LOCK-LINK SWITCH INSPECTION) Inspect wiring harness. (Instrument cluster — door lock-link switch — GND)
2	Turn driver-side door lock knob to unlock position. (Door lock-link switch to unlock position.)	ON	<ul style="list-style-type: none"> Inspect door lock-link switch. (See 09-14-4 DOOR LOCK-LINK SWITCH INSPECTION) Inspect wiring harness. (Instrument cluster — door lock-link switch — GND)
		OFF	Input signal to instrument cluster is okay.

DTC 08 TNS relay on/off signal			
STEP	INSPECTION	INDICATION	ACTION
1	Turn headlight switch to TNS position. (TNS relay on.)	ON	Go to next step.
		OFF	<ul style="list-style-type: none"> Inspect TNS relay. (See 09-21-5 RELAY INSPECTION) Inspect wiring harness. (Battery — TNS relay — instrument cluster)
2	Turn headlight switch off. (TNS relay off.)	ON	<ul style="list-style-type: none"> Inspect TNS relay. (See 09-21-5 RELAY INSPECTION) Inspect wiring harness. (TNS relay — instrument cluster)
		OFF	Input signal to instrument cluster is okay.

INSTRUMENTATION/DRIVER INFO.

DTC 10 Vehicle speed input signal		
INSPECTION	INDICATION	ACTION
Rotate drive wheels using chassis roller.	□□	Input signal to instrument cluster is okay.
	□FF	Inspect following parts With ABS <ul style="list-style-type: none"> • ABS HU/CM • Wiring harness (Instrument cluster—ABS HU/CM) Without ABS, ATX <ul style="list-style-type: none"> • PCM • Wiring harness (Instrument cluster—PCM) Without ABS, MTX <ul style="list-style-type: none"> • Vehicle speedometer sensor • Wiring harness (Instrument cluster—vehicle speedometer sensor)

DTC 11 Engine speed input signal		
INSPECTION	INDICATION	ACTION
Start engine.	□□	Input signal to instrument cluster is okay.
	□FF	<ul style="list-style-type: none"> • Inspect PCM. (See 01-40A-7 PCM INSPECTION [ZM]) (See 01-40B-7 PCM INSPECTION [FS]) • Inspect wiring harness. (instrument cluster — PCM)


09-22

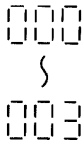
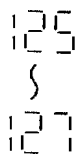
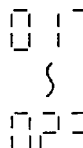
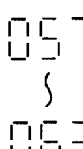

DTC 12 Operation signal to speedometer			
INSPECTION	INDICATION	SITUATION	ACTION
Wait for 2 seconds after selecting DTC 12.	□□	Speedometer needle moves full scale then returns to 60 km/h {37 MPH} .	Speedometer is okay.
		Other than stated above.	Replace instrument cluster.
	E r r	—	

DTC 13 Operation signal to tachometer			
INSPECTION	INDICATION	SITUATION	ACTION
Wait for 2 seconds after selecting DTC 13.	□□	Tachometer needle moves full scale then returns to 3000 rpm .	Tachometer is okay.
		Other than stated above.	Replace instrument cluster.
	E r r	—	

DTC 14 Operation signal to buzzer			
INSPECTION	INDICATION	SITUATION	ACTION
Wait for 2 seconds after selecting DTC 14.	□□ (Fixed)	Buzzer continuously sounds.	Buzzer is okay.
		Buzzer does not continuously sound.	Replace instrument cluster.

INSTRUMENTATION/DRIVER INFO.

DTC 16 Operation signal to fuel-level warning light			
INSPECTION	INDICATION	SITUATION	ACTION
Wait for 2 seconds after selecting DTC 16.	 (Turns on and off)	Fuel-level warning light turns on and off 3 times .	Fuel-level warning light is okay.
		Other than stated above.	Inspect fuel-level warning light. (See 09-22-13 WARNING AND INDICATOR LIGHT BULB REMOVAL/ INSTALLATION)

DTC 22 Fuel level signal				
STEP	INSPECTION	INDICATION	SITUATION	ACTION
1	Select DTC 22.		Short to GND.	<ul style="list-style-type: none"> • Inspect fuel gauge sender unit. (See 09-22-13 FUEL GAUGE SENDER UNIT INSPECTION) • Inspect wiring harness. (Instrument cluster — fuel gauge sender unit.)
			Open circuit.	
		Other than stated above.	Go to next step.	
2	Using SST (Fuel And Thermometer checker), input 20 ohms to terminal 3C of instrument cluster.		—	Go to next step.
		Other than stated above.	—	Replace instrument cluster.
3	Using SST (Fuel And Thermometer checker), input 60 ohms to terminal 3C of instrument cluster.		—	Go to next step.
		Other than stated above.	—	Replace instrument cluster.
4	Using SST (Fuel And Thermometer checker), input 100 ohms to terminal 3C of instrument cluster.		—	Input signal to instrument cluster is okay.
		Other than stated above.	—	Replace instrument cluster.

INSTRUMENTATION/DRIVER INFO.

DTC 23		Operation signal to fuel gauge		
INSPECTION		INDICATION	SITUATION	ACTION
Wait for 2 seconds after selecting DTC 23.		<div style="text-align: center;">□ □</div>	Fuel gauge indicates in following order for every 2 seconds . <ul style="list-style-type: none"> F→1/2→E→F (fixed) 	Fuel gauge is okay.
			Other than stated above.	Replace instrument cluster.
		<div style="text-align: center;">E F F</div>	Replace instrument cluster.	

DTC 24		Water temperature signal			
STEP	INSPECTION	INDICATION	SITUATION	ACTION	
1	Inspect PCM and ETC sensor. Are any DTCs of PCM displayed?	Yes	—	—	Go to applicable DTC inspection.
		No	—	—	Go to next step.
2	Select DTC 24. Caution <ul style="list-style-type: none"> If ignition switch is turned to ON position with ECT sensor connector disconnected, DTC (P0117, P0118) of on-board diagnostic system will be recorded in PCM. After inspecting DTC 24, always delete DTC of PCM. 	<div style="text-align: center;">000 } 003</div>	Short to GND.	Inspect wiring harness. (Instrument cluster — ECT sensor)	
		<div style="text-align: center;">252 } 255</div>	Open circuit.		
		Other than stated above.	—	Go to next step.	
3	Use the SST (Fuel and thermometer checker) to adjust the resistance so that the voltage of the instrument cluster terminal 3E is approximately 0.29 V .	<div style="text-align: center;">010 } 020</div>	—	Go to next step.	
		Other than stated above.	—	Replace instrument cluster.	
4	Use the SST (Fuel and thermometer checker) to adjust the resistance so that the voltage of the instrument cluster terminal 3E is approximately 1.61V .	<div style="text-align: center;">077 } 087</div>	—	Input signal to instrument cluster is okay.	
		Other than stated above.	—	Replace instrument cluster.	

09-22

INSTRUMENTATION/DRIVER INFO.

DTC 25 Operation signal to water temperature gauge			
INSPECTION	INDICATION	SITUATION	ACTION
Wait for 2 seconds after selecting DTC 25.	□ □	Water temperature gauge indicates in following order for every 2 seconds . • H→Center→C→H (fixed)	Water temperature gauge is okay.
		Other than stated above.	Replace instrument cluster.
	E r r	Replace instrument cluster.	

DTC 26 LCD indication			
INSPECTION	INDICATION	SITUATION	ACTION
Wait for 2 seconds after selecting DTC 26.	TRIP A B ODO 88888.8	Indication is normal.	LCD is okay.
		Other than stated above.	Replace instrument cluster.

DTC 27 Operation signal to interior light			
INSPECTION	INDICATION	SITUATION	ACTION
a. Turn interior light switch to DOOR position. b. Wait for 2 seconds after selecting DTC 27.	□ □ (Turns on and off)	Interior light turns on and off 3 times .	Interior light is okay.
		Other than stated above.	<ul style="list-style-type: none"> Inspect interior light. Inspect wiring harness. (Battery — interior light — instrument cluster)

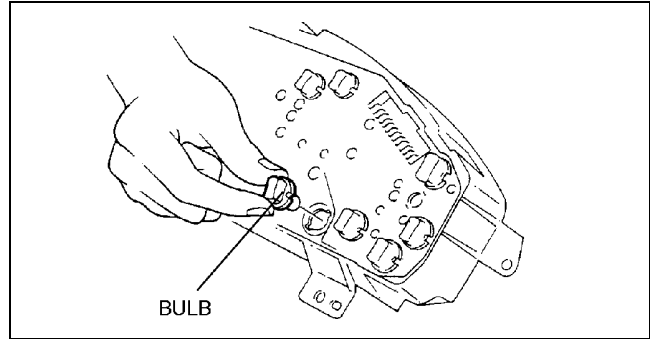
DTC 31 TNS relay on/off signal			
STEP	INSPECTION	INDICATION	ACTION
1	Remove key from steering lock and then insert key into steering lock after selecting DTC 31 (key reminder switch on).	□ □	Go to next step.
		□ F F	<ul style="list-style-type: none"> Inspect key reminder switch. (See 09-21-4 KEY REMINDER SWITCH INSPECTION) Inspect wiring harness. (Battery — key reminder switch — instrument cluster)
2	Remove key from steering lock (key reminder switch off).	□ □	<ul style="list-style-type: none"> Inspect key reminder switch. (See 09-21-4 KEY REMINDER SWITCH INSPECTION) Inspect wiring harness. (Battery — key reminder switch — instrument cluster)
		□ F F	Input signal to instrument cluster is okay.

INSTRUMENTATION/DRIVER INFO.

WARNING AND INDICATOR LIGHT BULB REMOVAL/INSTALLATION

A3U092255431W01

1. Disconnect the negative battery cable.
2. Remove the instrument cluster. (See 09–22–3 INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)
3. Turn the socket counterclockwise to remove the bulb as shown in the figure.
4. Install in the reverse order of removal.

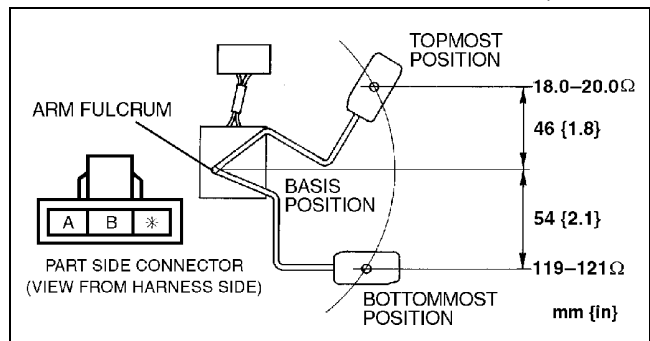


X3U922WBK

FUEL GAUGE SENDER UNIT INSPECTION

A3U092260960W01

1. Remove the fuel gauge sender unit. (See 01–14–15 FUEL PUMP UNIT DISASSEMBLY/ASSEMBLY.)
2. Move the float to the topmost and bottommost positions, and verify that the resistance between terminals A and B of the unit and the position of the float are as indicated in the figure.
 - If they are not as indicated, replace the fuel gauge sender unit.



Y3U922WAO

09–22

OIL PRESSURE SWITCH INSPECTION

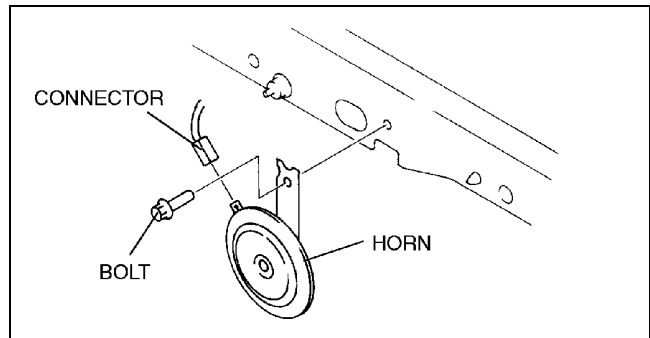
A3U092218500W01

1. Verify that the oil pressure warning light illuminates when the ignition switch is turned to ON position.
2. Verify that the oil pressure warning light goes off when the engine is started.
 - If the oil pressure warning light does not illuminate or remains illuminated, inspect the oil pressure warning light bulb and related wiring harness.
 - If the oil pressure warning light bulb and related wiring harness are normal, inspect the oil pressure. (See 01–11–2 OIL PRESSURE INSPECTION.)
 - If the oil pressure is normal, replace the oil pressure switch.

HORN REMOVAL/INSTALLATION

A3U092266790W01

1. Disconnect the negative battery cable.
2. Remove the front bumper. (See 09–10–5 FRONT BUMPER REMOVAL/INSTALLATION.)
3. Disconnect the horn connector.
4. Remove the bolt.
5. Remove the horn.
6. Install in the reverse order of removal.



X3U922WBM

09-50 TECHNICAL DATA

BODY & ACCESSORIES

TECHNICAL DATA 09-50-1

BODY & ACCESSORIES TECHNICAL DATA

A3U095001047W01

Item		Specifications (W) x number		
LIGHTING SYSTEMS				
Exterior lights	Headlight	4SD	60/55 x 2	
		5HB	High-beam	60 x 2
			Low-beam	55 x 2
	Front turn light/parking light		27/8 x 2	
	Front side marker light		5 x 2	
	Front fog light		55 x 2	
	Brake light/taillight		21/5 x 2	
	Rear turn light		21 x 2	
	Taillight (4SD)		3.8 x 2	
	Back-up light		21 x 2	
	Rear side marker light (4SD)		3.8 x 2	
	License plate light		5 x 2	
	High-mount brake light	In-vehicle type	21 x 1	
		Rear spoiler type	5.8 x 1	
Interior lights	Interior light	Front	8 x 1	
		Rear	10 x 1	
	Map light		5 x 2	
	Interior and map light		Interior 8 x 1, Map 5 x 2	
	Trunk compartment light (4SD)		5 x 1	
	Cargo compartment light (5HB)		5 x 1	
Instrument cluster illumination		3.4 x 2, 1.4 x 2		
INSTRUMENTATION/DRIVER INFO.				
Warning and indicator lights	MIL		1.4 x 1	
	Air bag system warning light		1.4 x 1	
	Seat belt warning light		1.4 x 1	
	Oil pressure warning light		1.4 x 1	
	Brake system warning light		1.4 x 1	
	ABS warning light		1.4 x 1	
	High beam indicator light		1.4 x 1	
	Turn indicator light		1.4 x 2	
	O/D OFF indicator light		1.4 x 1	
	Cruise set indicator light		1.4 x 1	
Washer fluid-level warning light		1.4 x 1		

09-50


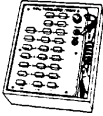
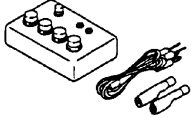

SERVICE TOOLS

09-60 SERVICE TOOLS

BODY & ACCESSORIES SST 09-60-1

BODY & ACCESSORIES SST

A3U096001047W01

<p>49 0305 870A Window tool set</p> 	<p>49 0839 285 Fuel and thermometer checker (OLD)</p> 	<p>49 N088 0A0 Fuel and thermometer checker (NEW)</p> 
<p>49 UN01 050 Removing tool</p> 	<p>—</p>	<p>—</p>