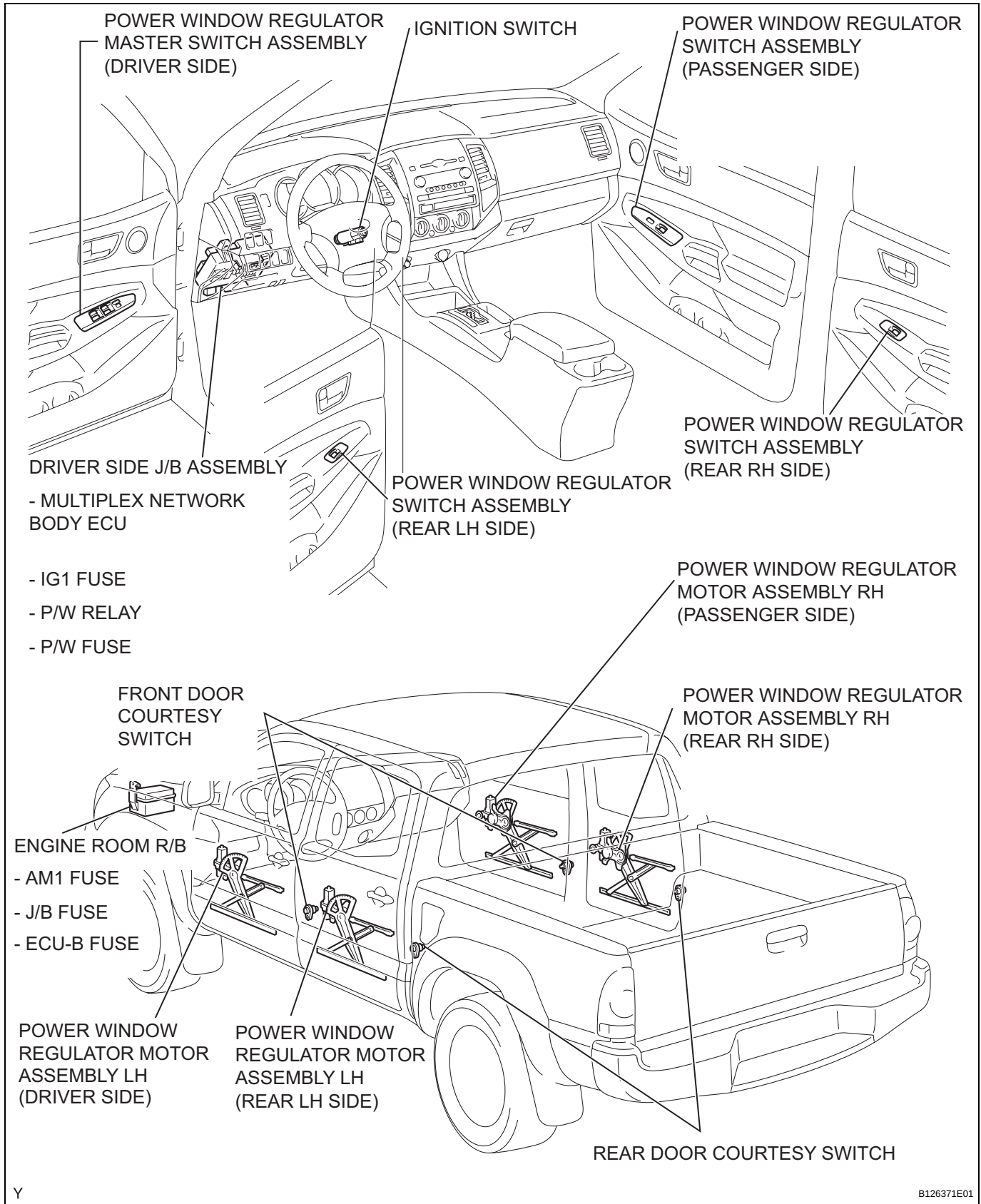


POWER WINDOW CONTROL SYSTEM

PARTS LOCATION



WS



SYSTEM DESCRIPTION

1. POWER WINDOW CONTROL SYSTEM DESCRIPTION

- (a) The power window control system controls the UP/DOWN function of the power windows by using the regulator motors.

The main components of this system are: the power window regulator master switch assembly, which is built into the driver side door, and the power window regulator switch, which is built into the passenger side door and rear doors. Pressing the regulator switch or either of the four switches on the master switch assembly transmits an UP/DOWN signal to the corresponding power window regulator motor.

- (b) The power window control system has the following functions:

Function	Outline
Manual UP / DOWN function	Driver side power window: Function that causes window to rise while power window switch is being pulled up, and to lower while pushed halfway down. Window stops as soon as the switch is released. Passenger side power window and rear door power window: Function that causes window to rise while power window switch is being pulled up and to lower while pushed down. Window stops as soon as the switch is released.
AUTO DOWN function	Function that enables window of driver side door to be fully open by one press of power window switch.
Remote control function	Function that allows power window master switch assembly to control manual UP/DOWN operation of passenger door power window and rear door power window.
Key-off operation function	Function that makes it possible to operate power window for approximately 43 seconds after ignition switch is turned to ACC or LOCK position if neither front door is opened.
Window lock function	Function where passenger side power window and rear door power window operations are disabled when window lock switch of the master switch assembly is pressed. Passenger side power window and rear door power window can be operated when window lock switch is pressed again.

HOW TO PROCEED WITH TROUBLESHOOTING

- HINT:
- Use these procedures to troubleshoot the power window control system.

1

VEHICLE BROUGHT TO WORK SHOP

NEXT

2

CUSTOMER PROBLEM ANALYSIS CHECK AND SYMPTOM CHECK

NEXT

3

PROBLEM SYMPTOM TABLE

Result	
Result	Proceed to
Fault is not listed in problem symptoms table	A
Fault is listed in problem symptoms table	B

B

Go to step 5

A

4

OVERALL ANALYSIS AND TROUBLE SHOOTING*

- (a) On-vehicle Inspection (See page [WS-9](#))
- (b) Inspection
- (c) Terminals of ECU (See page [WS-5](#))

NEXT

5

ADJUST, REPAIR OR REPLACEMENT

NEXT

6

CONFIRMATION TEST

NEXT

END

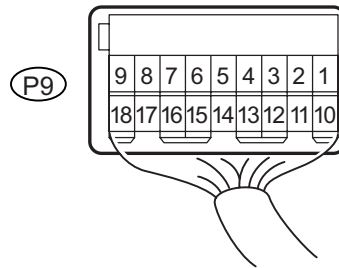
PROBLEM SYMPTOMS TABLE

Symptom	Suspected area	See page
Remote UP / DOWN function does not operate	Power window regulator master switch assembly	WS-11
	Wire harness	
Driver side power window does not operate with power window master switch	D FR P/W fuse	WS-15
	P/W Relay	
	Power window regulator master switch assembly	
	Power window regulator motor assembly (Driver side)	
	Wire harness	
Front passenger side power window does not operate with front power window switch	Power window regulator switch assembly (Passenger side)	WS-20
	Power window regulator motor assembly (Passenger side)	
	Wire harness	
Rear power window LH does not operate with rear power window switch LH	Power window regulator switch assembly (Rear LH)	WS-23
	Power window regulator motor assembly (Rear LH)	
	Wire harness	
Rear power window RH does not operate with rear power window switch RH	Power window regulator switch assembly (Rear RH)	WS-26
	Power window regulator motor assembly (Rear RH)	
	Wire harness	
Power window do not operate at all	D FR P/W fuse	WS-29
	IG1 NO.2 fuse	
	ECU-B fuse	
	AM1 fuse	
	J/B fuse	
	P/W fuse	
	Power window regulator master switch assembly	
	Wire harness	
	Driver side J/B assembly (Multiplex network body ECU)	
Power window can be operated after ignition switch is turned off even if operative conditions are not met	Power window regulator master switch assembly	WS-34
	Front door courtesy light switch	
	Wire harness	
	Driver side J/B assembly (Multiplex network body ECU)	

WS

TERMINALS OF ECU

1. CHECK POWER WINDOW REGULATOR MASTER SWITCH (FOR DOUBLE CAB):



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- Disconnect the P9 power window regulator master switch connector.
- Measure the voltage and resistance of each of the wire harness side connector terminals.

Standard:

Symbol (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
E (P9-1) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω
B (P9-7) - E (P9-1)	R - W-B	Regulator motor power supply	Always	10 to 14 V
B (P9-7) - E (P9-1)	R - W-B	Master switch power supply	Ignition switch OFF	0 V
B (P9-7) - E (P9-1)	R - W-B	Master switch power supply	ignition switch ON	10 to 14 V
DU (P9-4) - DD (P9-9)	L - L-B	•Power window motor UP output •Power window motor DOWN output	Always	Below 1 Ω

If the result is not as specified, there may be a malfunction on the wire harness side.

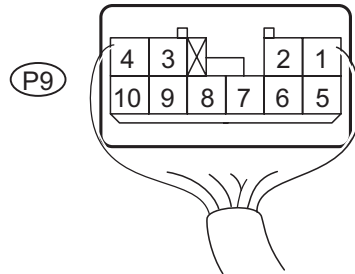
- Reconnect the power window regulator master switch connector.
- Measure the voltage of the connector terminals.

Symbol (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
DU (P9-4) - E (P9-1)	L - W-B	Power window motor UP output	Ignition switch ON, driver side power window switch OFF	0 V
DU (P9-4) - E (P9-1)	L - W-B	Power window motor UP output	Ignition switch ON, driver side power window switch UP	10 to 14 V
DD (P9-9) - E (P9-1)	L-B - W-B	Power window motor DOWN output	Ignition switch ON, driver side power window switch OFF	0 V
DD (P9-9) - E (P9-1)	L-B - W-B	Power window motor DOWN output	Ignition switch ON, driver side power window switch DOWN (manual operation)	10 to 14 V
DD (P9-9) - E (P9-1)	L-B - W-B	Power window motor DOWN output	Ignition switch ON, driver side power window fully closed → driver side power window switch DOWN (AUTO operation) → driver side power window fully open	0 V → 10 to 14 V → 0 V

If the result is not as specified, the switch may have a malfunction.

- (e) Check the illumination.
- (1) When the ignition switch is turned to ON from OFF with the connector connected, check that the illumination (YELLOW) AUTO lights up.

2. CHECK POWER WINDOW REGULATOR MASTER SWITCH (FOR ACCESS CAB):



Y

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WS

- (a) Disconnect the P9 power window regulator master switch connector.
- (b) Measure the voltage and resistance of each of the wire harness side connector terminals.

Standard:

Symbol (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
E (P9-1) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω
B (P9-9) - E (P9-1)	R - W-B	Regulator motor power	Always	10 to 14 V
B (P9-9) - E (P9-1)	R - W-B	Master switch power supply	Ignition switch OFF	0 V
B (P9-9) - E (P9-1)	R - W-B	Master switch power supply	ignition switch ON	10 to 14 V
DU (P9-3) - DD (P9-4)	L - L-B	•Power window motor UP output •Power window motor DOWN output	Always	Below 1 Ω

If the result is not as specified, there may be a malfunction on the wire harness side.

- (c) Reconnect the power window regulator master switch connector.
- (d) Measure the voltage of the connector terminals.

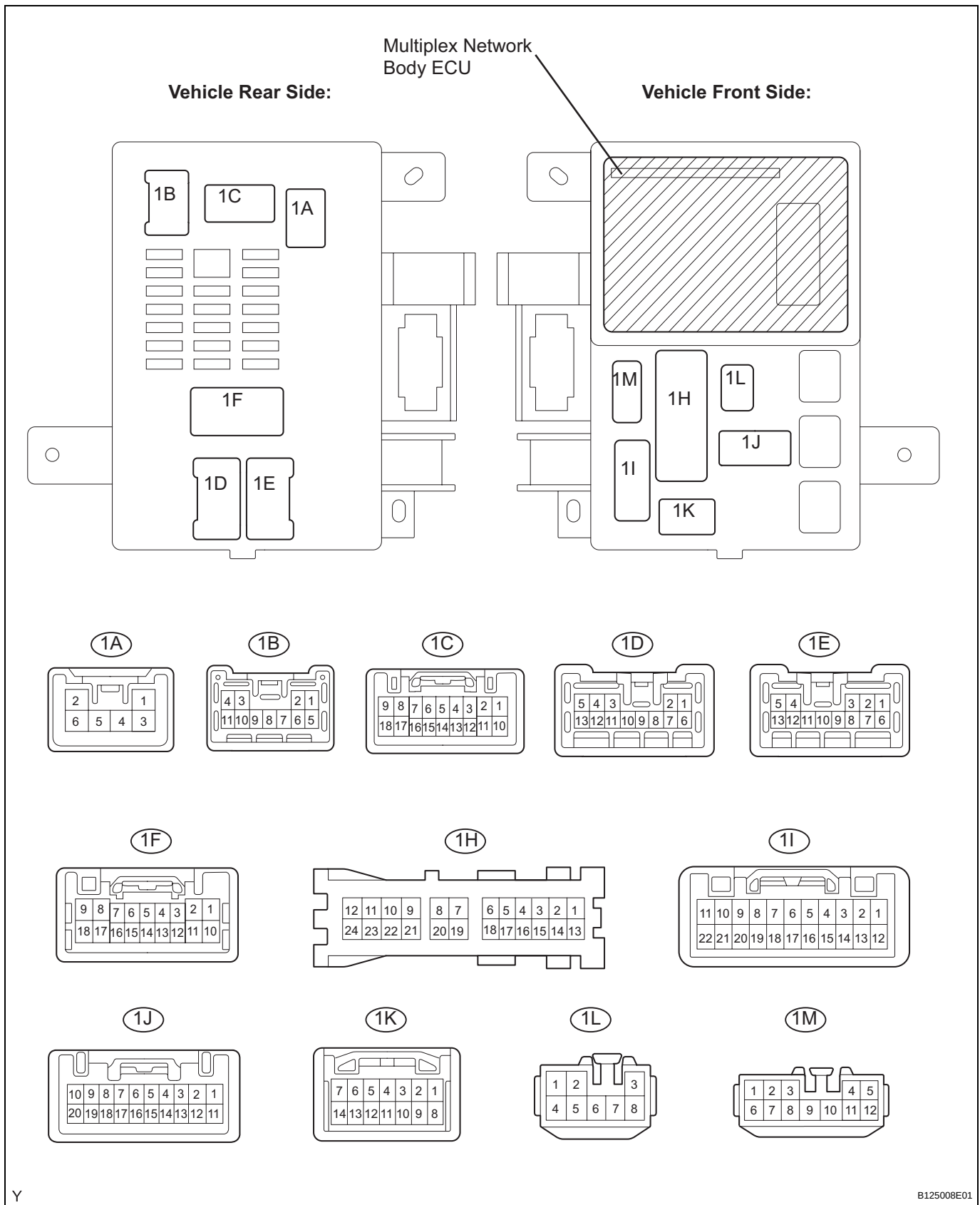
Symbol (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
DU (P9-4) - E (P9-1)	L - W-B	Power window motor UP output	Ignition switch ON, driver side power window switch OFF	0 V
DU (P9-4) - E (P9-1)	L - W-B	Power window motor UP output	Ignition switch ON, driver side power window switch UP	10 to 14 V
DD (P9-9) - E (P9-1)	L-B - W-B	Power window motor DOWN output	Ignition switch ON, driver side power window switch OFF	0 V
DD (P9-9) - E (P9-1)	L-B - W-B	Power window motor DOWN output	Ignition switch ON, driver side power window switch DOWN (manual operation)	10 to 14 V

Symbol (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
DD (P9-9) - E (P9-1)	L-B - W-B	Power window motor DOWN output	Ignition switch ON, driver side power window fully closed → driver side power window switch DOWN (AUTO operation) → driver side power window fully open	0 V → 10 to 14 V → 0 V

If the result is not as specified, the switch may have a malfunction.

- (e) Check the illumination.
 - (1) When the ignition switch is turned to ON from OFF with the connector connected, check that the illumination (YELLOW) AUTO lights up.

3. CHECK DRIVER SIDE J/B ASSEMBLY (MULTIPLEX NETWORK BODY ECU)



WS

(a) Disconnect the 1A, 1C, 1F, 1H, 1I and 1K driver side J/B connectors.

- (b) Measure the voltage and resistance between each terminal of the wire harness side connectors and body ground.

Standard:

Symbol (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
ECUB (1C-16) - Body ground	R - Body ground	+B (ECUB) power supply	Always	10 to 14 V
ALTB (1A-6) - Body ground	L - Body ground	+B (power system, generator system) power supply	Always	10 to 14 V
PWS (1H-10) - Body ground	W-B - Body ground	PWR Relay ON signal	Ignition switch OFF	0 V
			Ignition switch ON	10 to 14 V
KSW (1K-10) - Body ground	G-B - Body ground	Key unlock warning switch input	No key in ignition key cylinder	10 k Ω or higher
			Key inserted ignition key cylinder	Below 1 Ω
DCTY (1F-7) - Body ground	G-Y - Body ground	Driver side courtesy switch input	Driver side door CLOSED	10 k Ω or higher
			Driver side door OPEN	Below 1 Ω
PCTY (1I-8) - Body ground	R-B - Body ground	Passenger side courtesy switch input	Passenger side door CLOSED	10 k Ω or higher
			Passenger side door OPEN	Below 1 Ω
GND (1H-18) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω

If the result is not as specified, there may be a malfunction on the wire harness side.

- (c) Reconnect the driver side J/B connectors.
 (d) Measure the voltage between each terminal of the connector and body ground.

Standard:

Symbol (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
KSW (1K-10) - Body ground	G-B - Body ground	Key unlock warning switch input	No key in ignition key cylinder	10 to 14 V
			Key inserted ignition key cylinder	0 V

If the result is not as specified, the driver side J/B assembly (multiplex network body ECU) may have a malfunction.

ON-VEHICLE INSPECTION**1. CHECK WINDOW LOCK SWITCH**

- (a) Check that the passenger side power window and rear door side power window operations are disabled when the window lock switch of the power window regulator master switch assembly is pressed.
 (b) Check that the passenger side power window and rear door side power window can be operated when the window lock switch is pressed again.



2. CHECK MANUAL UP/DOWN FUNCTION

- (a) Check that the driver side power window operates as follows:

OK:

Condition	Master Switch	Switch Operation	Power Window
Ignition switch ON	Driver side	Pulled up	UP (closes)
Ignition switch ON	Driver side	Pushed halfway down	DOWN (opens)

- (b) Check that the power windows, except the driver side power window, operate as follows:

OK:

Condition	Master Switch	Switch Operation	Power Window
• Ignition switch ON • Window lock switch OFF	Front passenger side	Pulled up	UP (closes)
• Ignition switch ON • Window lock switch OFF	Front passenger side	Pushed down	DOWN (opens)
• Ignition switch ON • Window lock switch OFF	Rear LH	Pulled up	UP (closes)
• Ignition switch ON • Window lock switch OFF	Rear LH	Pushed down	DOWN (opens)
• Ignition switch ON • Window lock switch OFF	Rear RH	Pulled up	UP (closes)
• Ignition switch ON • Window lock switch OFF	Rear RH	Pushed down	DOWN (opens)

WS

3. CHECK AUTO DOWN FUNCTION

- (a) Check that the driver side power window operates as follows:

OK:

Condition	Master Switch	Switch Operation	Power Window
Ignition switch ON	Driver side	Pushed fully down	AUTO DOWN (fully opens)

(b)

4. CHECK REMOTE UP/DOWN FUNCTION

- (a) Check that the power windows except the driver side power window operate as follows:

OK:

Condition	Master Switch	Switch Operation	Power Window
• Ignition switch ON • Window lock switch OFF	Front passenger side	Pulled up	UP (closes)
• Ignition switch ON • Window lock switch OFF	Front passenger side	Pushed down	DOWN (opens)
• Ignition switch ON • Window lock switch OFF	Rear LH	Pulled up	UP (closes)
• Ignition switch ON • Window lock switch OFF	Rear LH	Pushed down	DOWN (opens)
• Ignition switch ON • Window lock switch OFF	Rear RH	Pulled up	UP (closes)
• Ignition switch ON • Window lock switch OFF	Rear RH	Pushed down	DOWN (opens)

Remote Up / Down Function does not Operate

DESCRIPTION

With the ignition switch ON, the power window regulator master switch assembly transmits remote switch signals to the passenger side power window and rear door power window regulator switches. Then, the regulator switches drive the power window regulator motors.

WIRING DIAGRAM

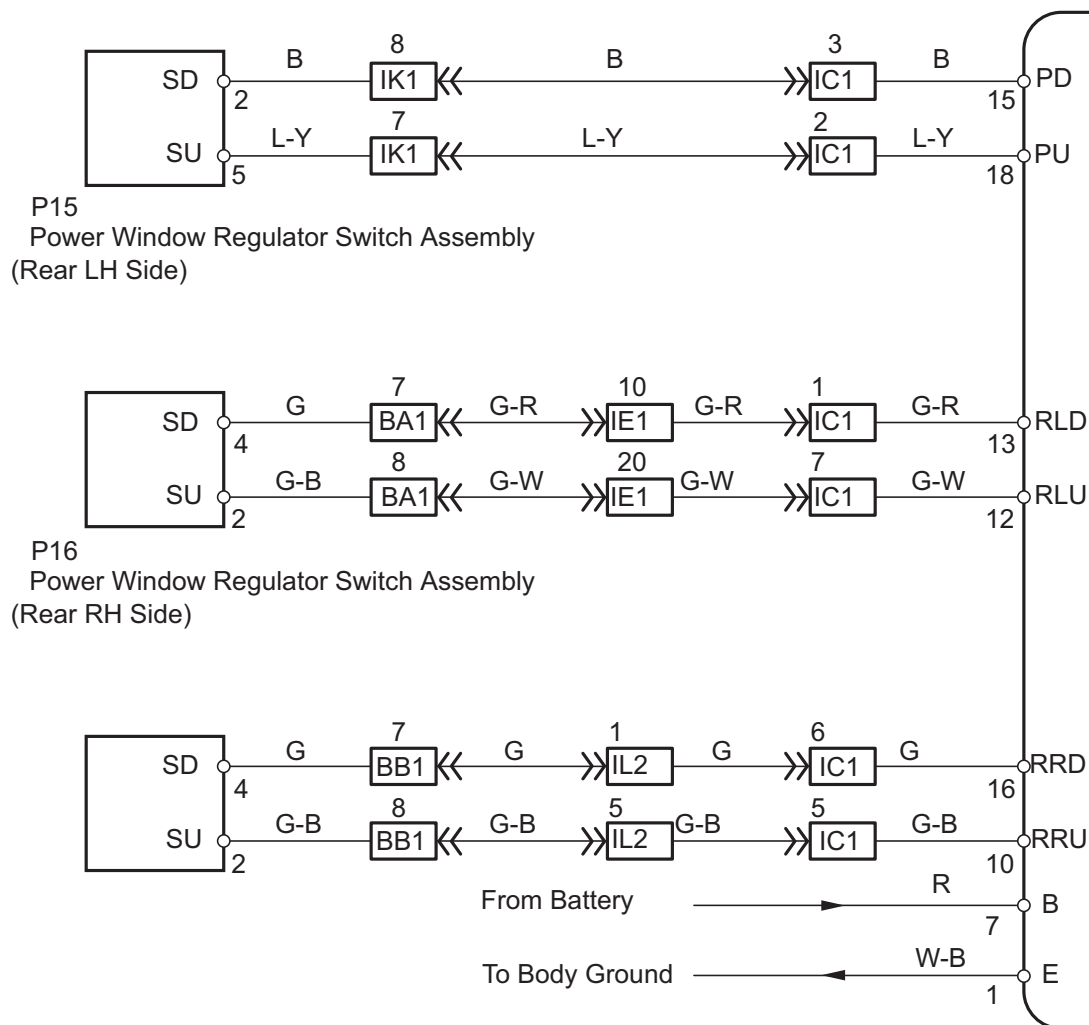
Double Cab:

P14

Power Window Regulator Switch Assembly
(Passenger Side)

P9

Power Window Regulator
Master Switch Assembly



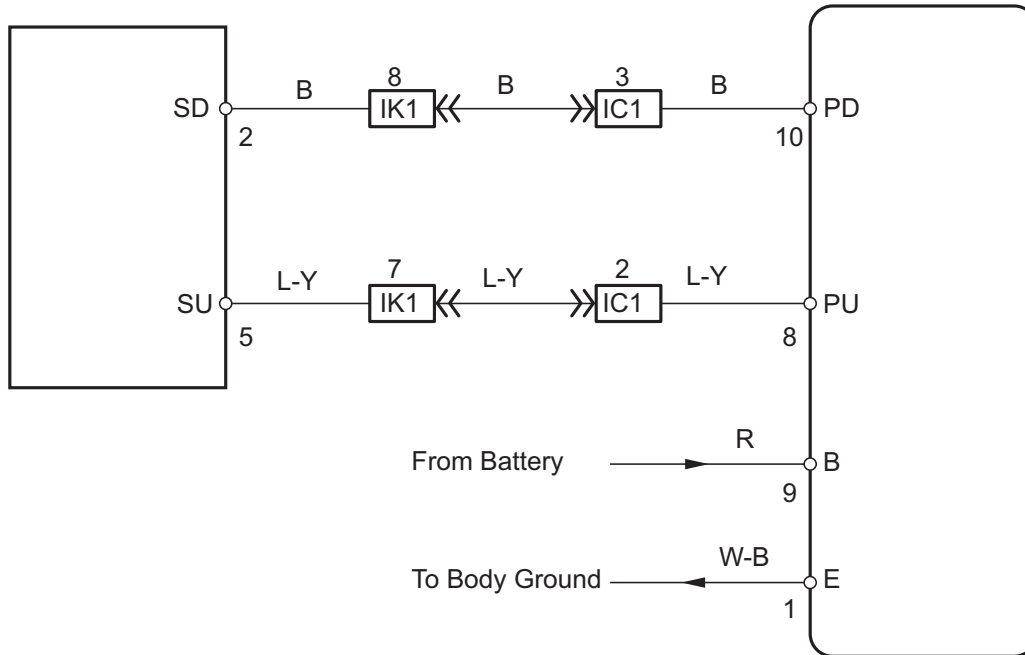
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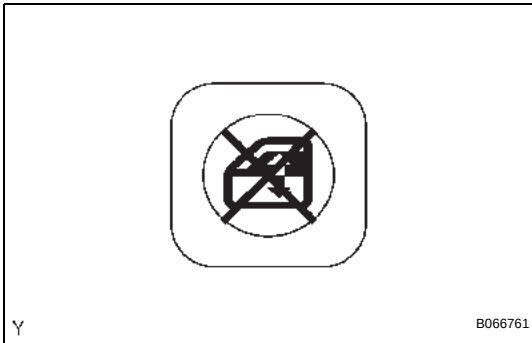
Access Cab:

P14
Power Window Regulator Switch Assembly
(Passenger Side)

P9
Power Window Regulator
Master Switch Assembly



WS

1**CHECK POWER WINDOW LOCK SWITCH**

- (a) Turn the window lock switch OFF and operate the master switches assembly passenger side and rear door side switches. Check that the remote UP/DOWN function operates normally.

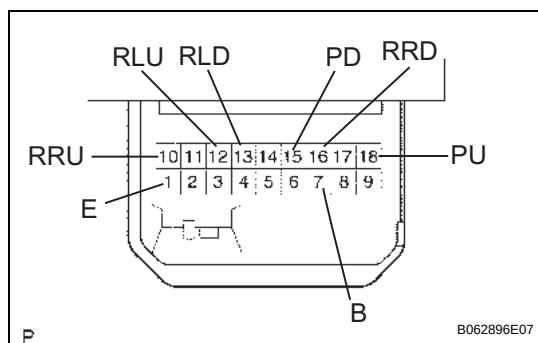
OK:**Remote UP/DOWN function operates normally.****OK****END****NG****2****CHECK MANUAL UP/DOWN FUNCTION**

- (a) Check that the passenger side and rear door side power window manual UP/DOWN functions operate normally.

OK:**Manual UP/DOWN function operates normally.****NG****OTHER PROBLEM**

OK

3 INSPECT POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY



(a) Double cab: Inspect the power window regulator master switch assembly.

- (1) Remove the power window regulator master switch assembly.
- (2) Disconnect the P9 power window regulator master switch connector.
- (3) Measure the resistance between the terminals of the connector when the switch is operated.

Standard (Passenger switch)

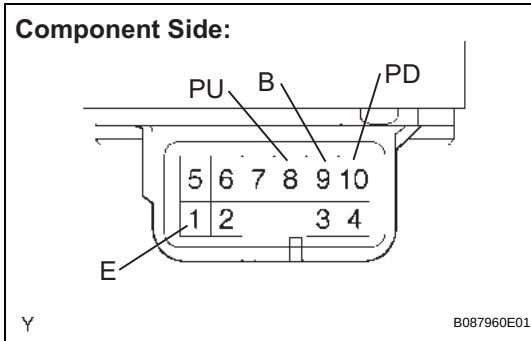
Window Lock Switch Condition	Power Window Switch Condition	Tester Condition	Specified Condition
OFF (Normal)	UP	P9-1 (E) - P9-15 (PD) P9-7 (B) - P9-18 (PU)	Below 1Ω
OFF (Normal)	OFF	P9-1 (E) - P9-18 (PU) P9-1 (E) - P9-15 (PD)	Below 1Ω
OFF (Normal)	DOWN	P9-1 (E) - P9-18 (PU) P9-7 (B) - P9-15 (PD)	Below 1Ω
ON (Lock)	UP	P9-7 (B) - P9-18 (PU)	Below 1Ω
ON (Lock)	OFF	P9-17 (PU) - P9-15 (PD)	Below 1Ω
ON (Lock)	DOWN	P9-7 (B) - P9-15 (PD)	Below 1Ω

Standard (Rear LH switch)

Window Lock Switch Condition	Power Window Switch Condition	Tester Condition	Specified Condition
OFF (Normal)	UP	P9-1 (E) - P9-13 (RLD) P9-7 (B) - P9-12 (RLU)	Below 1Ω
OFF (Normal)	OFF	P9-1 (E) - P9-12 (RLU) P9-1 (E) - P9-13 (RLD)	Below 1Ω
OFF (Normal)	DOWN	P9-1 (E) - P9-12 (RLU) P9-7 (B) - P9-13 (RLD)	Below 1Ω
ON (Lock)	UP	P9-7 (B) - P9-12 (RLU)	Below 1Ω
ON (Lock)	OFF	P9-12 (RLU) - P9-13 (RLD)	Below 1Ω
ON (Lock)	DOWN	P9-7 (B) - P9-13 (RLD)	Below 1Ω

Standard (Rear RH switch)

Window Lock Switch Condition	Power Window Switch Condition	Tester Condition	Specified Condition
OFF (Normal)	UP	P9-1 (E) - P9-16 (RRD) P9-7 (B) - P9-10 (RRU)	Below 1Ω
OFF (Normal)	OFF	P9-1 (E) - P9-10 (RRU) P9-1 (E) - P9-16 (RRD)	Below 1Ω
OFF (Normal)	DOWN	P9-1 (E) - P9-10 (RRU) P9-7 (B) - P9-16 (RRD)	Below 1Ω
ON (Lock)	UP	P9-7 (B) - P9-10 (RRU)	Below 1Ω
ON (Lock)	OFF	P9-10 (RRU) - P9-16 (RRD)	Below 1Ω
ON (Lock)	DOWN	P9-7 (B) - P9-16 (RRD)	Below 1Ω



- (4) Reconnect the power window regulator master switch connector.
- (5) Reinstall the power window regulator master switch assembly.
- (b) Access cab: Inspect the power window regulator master switch assembly.
 - (1) Remove the power window regulator master switch assembly.
 - (2) Disconnect the P9 power window regulator master switch connector.
 - (3) Measure the resistance between the terminals of the connector when the switch is operated.

WS

Standard (Passenger switch)

Window Lock Switch Condition	Power Window Switch Condition	Tester Condition	Specified Condition
OFF (Normal)	UP	P9-1 (E) - P9-10 (PD) P9-7 (B) - P9-8 (PU)	Below 1Ω
OFF (Normal)	OFF	P9-1 (E) - P9-8 (PU) P9-1 (E) - P9-10 (PD)	Below 1Ω
OFF (Normal)	DOWN	P9-1 (E) - P9-8 (PU) P9-7 (B) - P9-10 (PD)	Below 1Ω
ON (Lock)	UP	P9-9 (B) - P9-8 (PU)	Below 1Ω
ON (Lock)	OFF	P9-8 (PU) - P9-10 (PD)	Below 1Ω
ON (Lock)	DOWN	P9-9 (B) - P9-10 (PD)	Below 1Ω

- (4) Reconnect the power window regulator master switch connector.
- (5) Reinstall the power window regulator master switch assembly.

NG

REPLACE POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY

OK

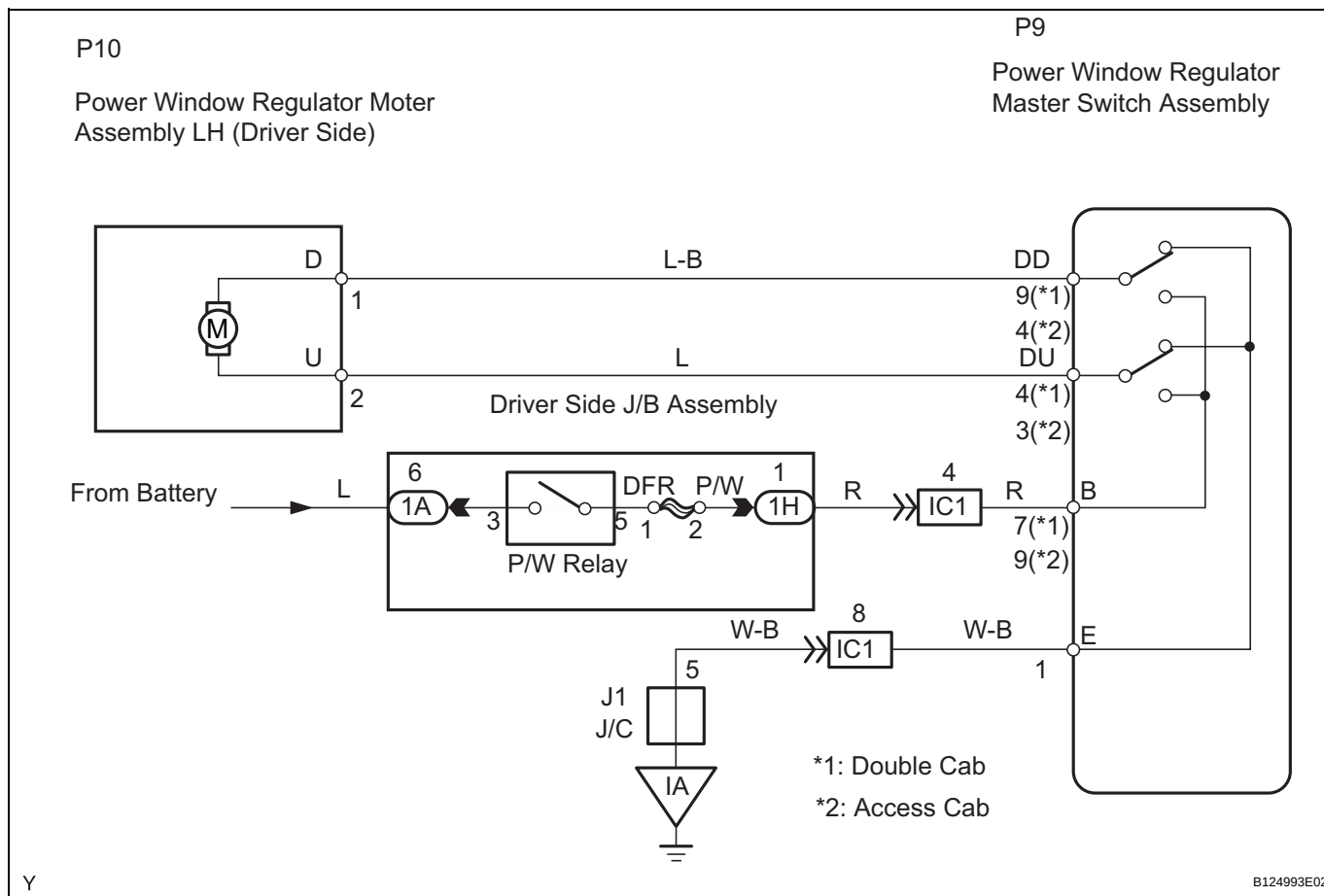
REPAIR OR REPLACE HARNESS OR CONNECTOR (WINDOW REGULATOR MASTER SWITCH - EACH REGULATOR SWITCH)

Driver Side Power Window does not Operate with Power Window Master Switch

DESCRIPTION

If the manual UP/DOWN function does not operate, the power window regulator master switch assembly, the power window regulator motor assembly or the wire harness may be malfunctioning.

WIRING DIAGRAM



1 INSPECT FUSE (D FR P/W)

- Remove the D FR P/W fuse from the driver side J/B.
- Check the resistance.
Standard Resistance:
Below 1 Ω
- Reinstall the D FR P/W fuse.

NG

REPLACE FUSE

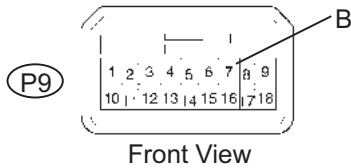
OK

2 CHECK POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY

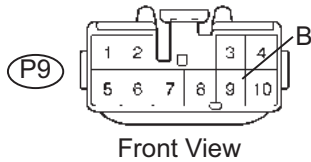
- Turn the ignition switch to ON.

Wire Harness Side (Double Cab):

Power Window Regulator
Master Switch Assembly

**Wire Harness Side (Access Cab):**

Power Window Regulator Master Switch



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OK

(b) Measure the voltage.

Standard Voltage (Double cab)

Tester Connection	Condition	Specified Condition
P9-7 (B) - Body ground	Ignition switch ON	10 to 14 V

Standard Voltage (Access cab)

Tester Connection	Condition	Specified Condition
P9-9 (B) - Body ground	Ignition switch ON	10 to 14 V

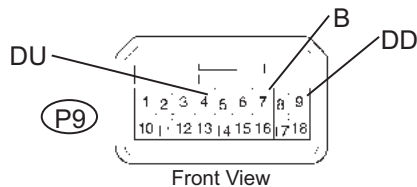
NG

**REPAIR OR REPLACE HARNESS OR
CONNECTOR (DRIVER SIDE J/B -
REGULATOR MASTER SWITCH)**

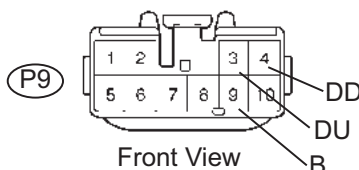
WS

3**CHECK POWER WINDOW REGULATOR MOTOR ASSEMBLY LH****Wire Harness Side (Double Cab):**

Power Window Regulator
Master Switch Assembly

**Wire Harness Side (Access Cab):**

Power Window Regulator Master Switch



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- (a) Disconnect the P9 power window regulator master switch connector.
- (b) Using a service wire, connect the terminals according to the table below.
- (c) Turn the ignition switch to ON.
- (d) Check the operation of the power window regulator motor assembly LH.

OK (Double cab)

Wire Connection	Specified Condition
P9-4 (DU) - P9-7 (B) P9-9 (DD) - Body ground	Power window moves UP
P9-4 (DU) - Body ground P9-7 (B) - P9-9 (DD)	Power window moves DOWN

OK (Access cab)

Wire Connection	Specified Condition
P9-3 (DU) - P9-9 (B) P9-4 (DD) - Body ground	Power window moves UP
P9-3 (DU) - Body ground P9-9 (B) - P9-4 (DD))	Power window moves DOWN

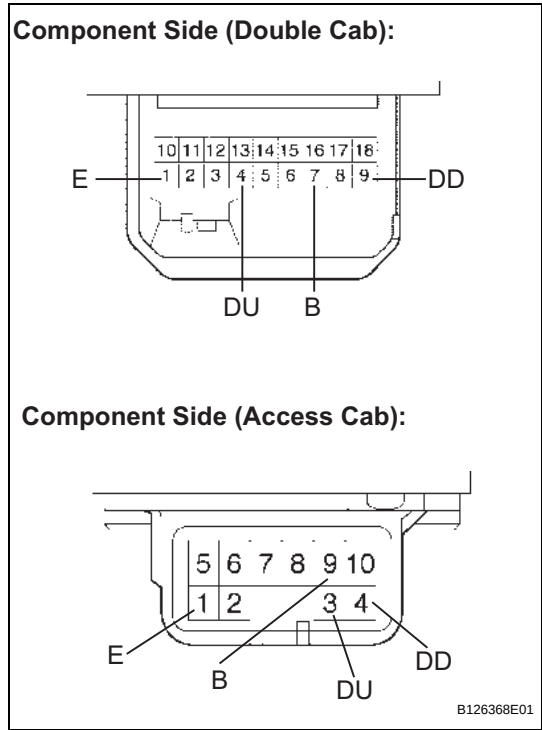
- (e) Reconnect the power window regulator master switch connector.

OK

**REPLACE POWER WINDOW REGULATOR
MASTER SWITCH ASSEMBLY**

NG

4 INSPECT POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY (SWITCH OPERATION)



- (a) Remove the power window regulator master switch.
- (b) Disconnect the P9 power window regulator master switch connector.
- (c) Measure the resistance between the terminals of the connector when the switch is operated.

Standard (Double cab)

Tester Connection	AUTO Switch	Specified Condition
P9-1 (E) - P9-9 (DD) P9-4 (DU) - P9-7 (B)	UP	Below 1 Ω
P9-1 (E) - P9-4 (DU) P9-1 (E) - P9-9 (DD)	OFF	Below 1 Ω
P9-1 (E) - P9-4 (DU) P9-7 (B) - P9-9 (DD)	DOWN	Below 1 Ω

Standard (Access cab)

Tester Connection	AUTO Switch	Specified Condition
P9-1 (E) - P9-4 (DD) P9-3 (DU) - P9-9 (B)	UP	Below 1 Ω
P9-1 (E) - P9-3 (DU) P9-1 (E) - P9-4 (DD)	OFF	Below 1 Ω
P9-1 (E) - P9-3 (DU) P9-9 (B) - P9-4 (DD)	DOWN	Below 1 Ω

- (d) Reconnect the power window regulator master switch connector.
- (e) Reinstall the power window regulator master switch.

NG

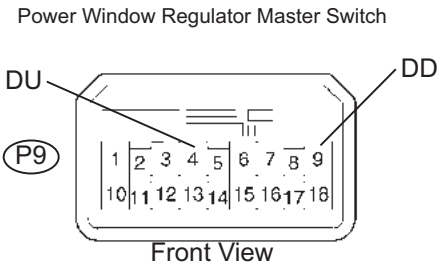
REPLACE POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY

OK

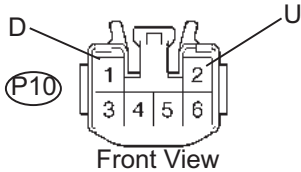
5 CHECK HARNESS AND CONNECTOR (REGULATOR MASTER SWITCH - REGULATOR MOTOR AND BODY GROUND)

- (a) Disconnect the P9 power window regulator master switch connector.
- (b) Disconnect the P10 power window regulator motor connector.

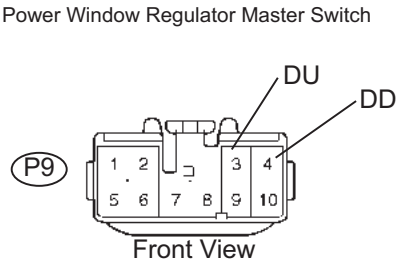
Wire Harness Side (Double Cab):



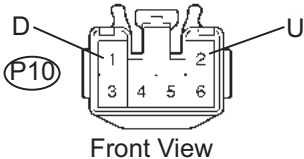
Power Window Regulator Motor Assembly LH (Driver Side)



Wire Harness Side (Access Cab):



Power Window Regulator Motor Assembly LH (Driver Side)



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- (c) Measure the resistance.
Standard (Double cab)

Tester Connection	Specified Condition
P9-9 (DD) - P10-1 (D)	Below 1 Ω
P9-4 (DU) - P10-2 (U)	Below 1 Ω
P9-9 (DD) - Body ground	10 kΩ or higher
P9-4 (DU) - Body ground	10 kΩ or higher

Standard (Access cab)

Tester Connection	Specified Condition
P9-4 (DD) - P10-1 (D)	Below 1 Ω
P9-3 (DU) - P10-2 (U)	Below 1 Ω
P9-4 (DD) - Body ground	10 kΩ or higher
P9-3 (DU) - Body ground	10 kΩ or higher

- (d) Reconnect the power window regulator master switch connector.
(e) Reconnect the power window regulator motor connector.

NG

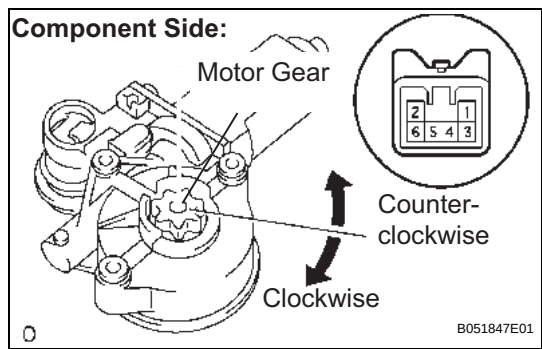
REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

6

INSPECT POWER WINDOW REGULATOR MOTOR ASSEMBLY LH

- (a) Remove the power window regulator motor.
(b) Apply battery voltage to connector terminals 1 and 2.



- (c) Check that the motor smoothly rotates.
NOTICE:
Do not apply battery voltage to any terminals except terminals 1 and 2.
OK

Terminal No.	Specified Condition
Battery positive (+) → 2 Battery negative (-) → 1	Motor gear rotates clockwise
Battery positive (+) → 1 Battery negative (-) → 2	Motor gear rotates counterclockwise

- (d) Reinstall the power window regulator motor.

NG

REPLACE POWER WINDOW REGULATOR MOTOR ASSEMBLY LH

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (MASTER SWITCH - REGULATOR SWITCH)

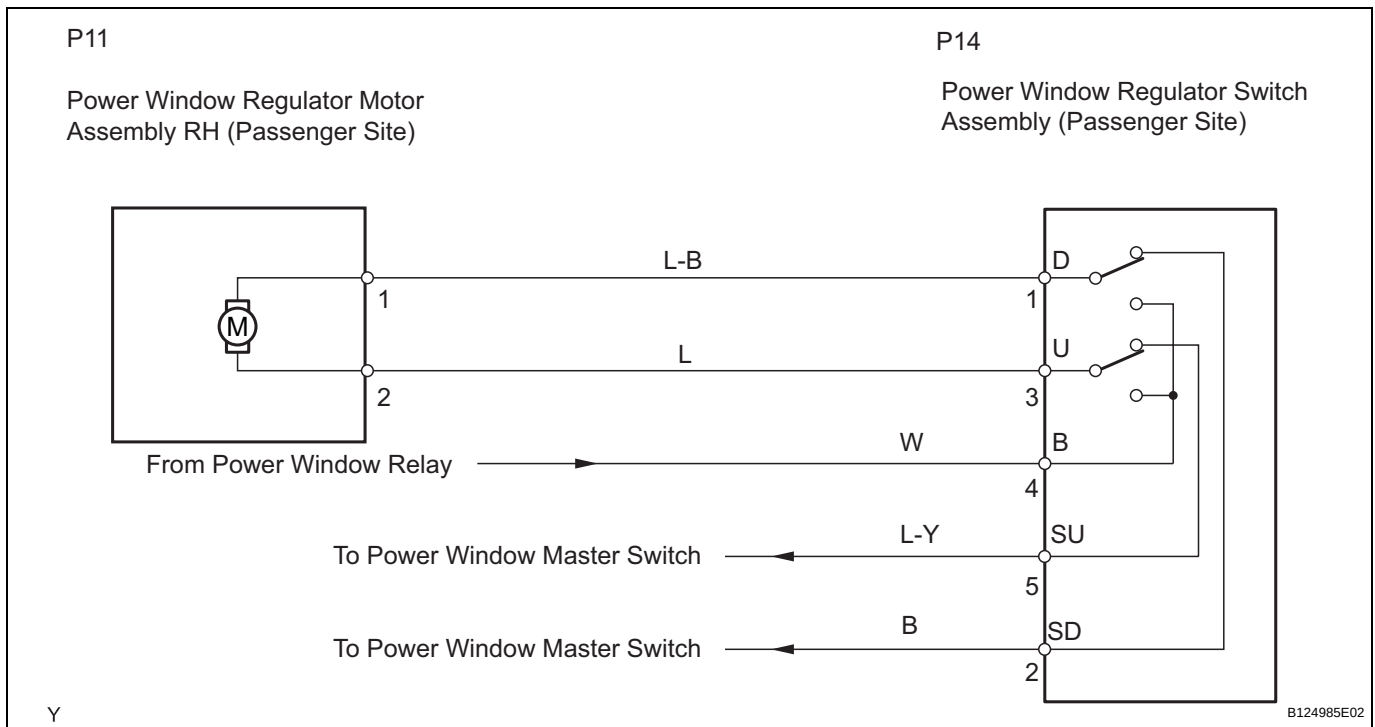
WS

Front Passenger Side Power Window does not Operate with Front Passenger Side Power Window Switch

DESCRIPTION

If the passenger side manual UP/DOWN function does not operate, the power window regulator motor assembly, the power window regulator switch assembly or the wire harness may be malfunctioning.

WIRING DIAGRAM

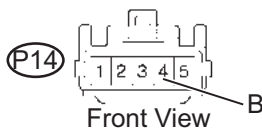


1

CHECK POWER WINDOW REGULATOR SWITCH ASSEMBLY (B VOLTAGE)

Wire Harness Side:

Power Window Regulator Switch Assembly (Passenger Side)



B062901E04

- Disconnect the P14 power window regulator switch connector.
- Turn the ignition switch ON.
- Measure the voltage.

Standard

Tester Connection	Condition	Specified Condition
P14-4 (B) - Body ground	Ignition switch ON	10 to 14 V

- Reconnect the power window regulator switch connector.

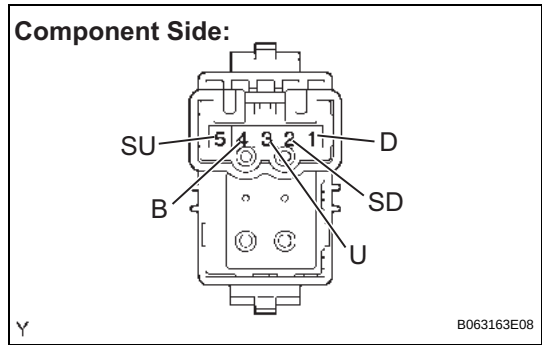
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR (DRIVER SIDE J/B - REGULATOR SWITCH)

OK

2

INSPECT POWER WINDOW REGULATOR SWITCH ASSEMBLY (SWITCH OPERATION)



- (a) Remove the power window regulator switch.
- (b) Disconnect the P14 power window regulator switch connector.
- (c) Measure the resistance between the terminals of the connector when the switch is operated.

Standard

Tester Connection	Regulator Switch	Specified Condition
P14-1 (D) - P14-2 (SD) P14-3 (U) - P14-4 (B)	UP	Below 1 Ω
P14-1 (D) - P14-2 (SD) P14-3 (U) - P14-5 (SU)	OFF	Below 1 Ω
P14-1 (D) - P14-4 (B) P14-3 (U) - P14-5 (SU)	DOWN	Below 1 Ω

- (d) Reconnect the power window regulator switch connector.
- (e) Reinstall the power window regulator switch.

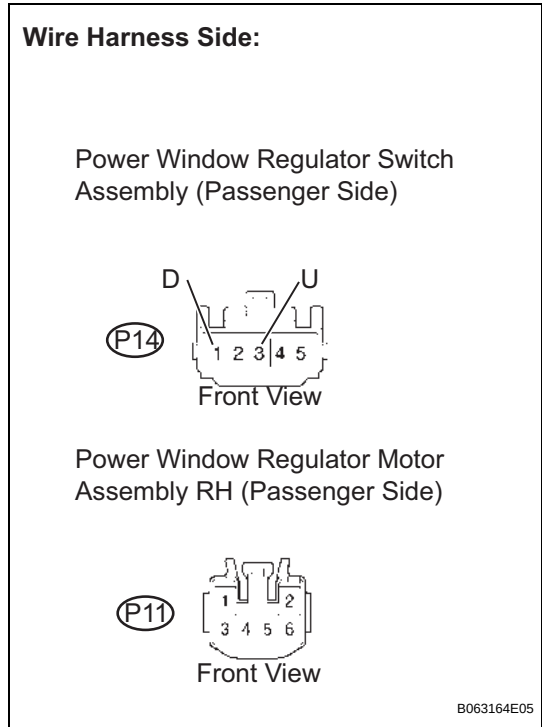
NG

REPLACE POWER WINDOW REGULATOR SWITCH ASSEMBLY

OK

3

CHECK HARNESS AND CONNECTOR (REGULATOR SWITCH - REGULATOR MOTOR AND BODY GROUND)



- (a) Disconnect the P14 power window regulator switch connector.
- (b) Disconnect the P11 power window regulator motor connector.
- (c) Measure the resistance.

Standard

Tester Connection	Specified Condition
P14-1 (D) - P11-1	Below 1 Ω
P14-3 (U) - P11-2	Below 1 Ω
P14-1 (D) - Body ground	10 kΩ or higher
P14-3 (U) - Body ground	10 kΩ or higher

- (d) Reconnect the power window regulator switch connector.
- (e) Reconnect the power window regulator motor connector.

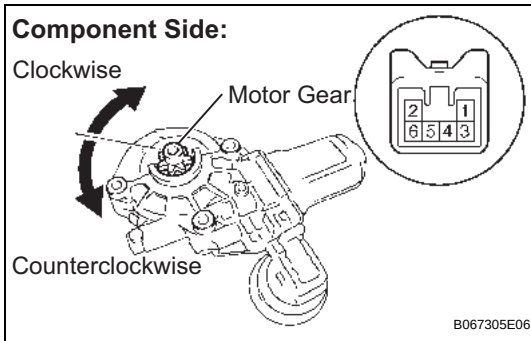
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4

INSPECT POWER WINDOW REGULATOR MOTOR ASSEMBLY RH



- (a) Remove the power window regulator motor.
- (b) Apply battery voltage to connector terminals 1 and 2.
- (c) Check that the motor smoothly rotates.

NOTICE:

Do not apply battery voltage to any terminals except terminals 1 and 2.

OK

Terminal No.	Specified Condition
Battery positive (+) → 1 Battery negative (-) → 2	Motor gear rotates clockwise
Battery positive (+) → 2 Battery negative (-) → 1	Motor gear rotates counterclockwise

- (d) Reinstall the power window regulator motor.

NG

**REPLACE POWER WINDOW REGULATOR
MOTOR ASSEMBLY RH**

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (MASTER SWITCH - REGULATOR SWITCH)

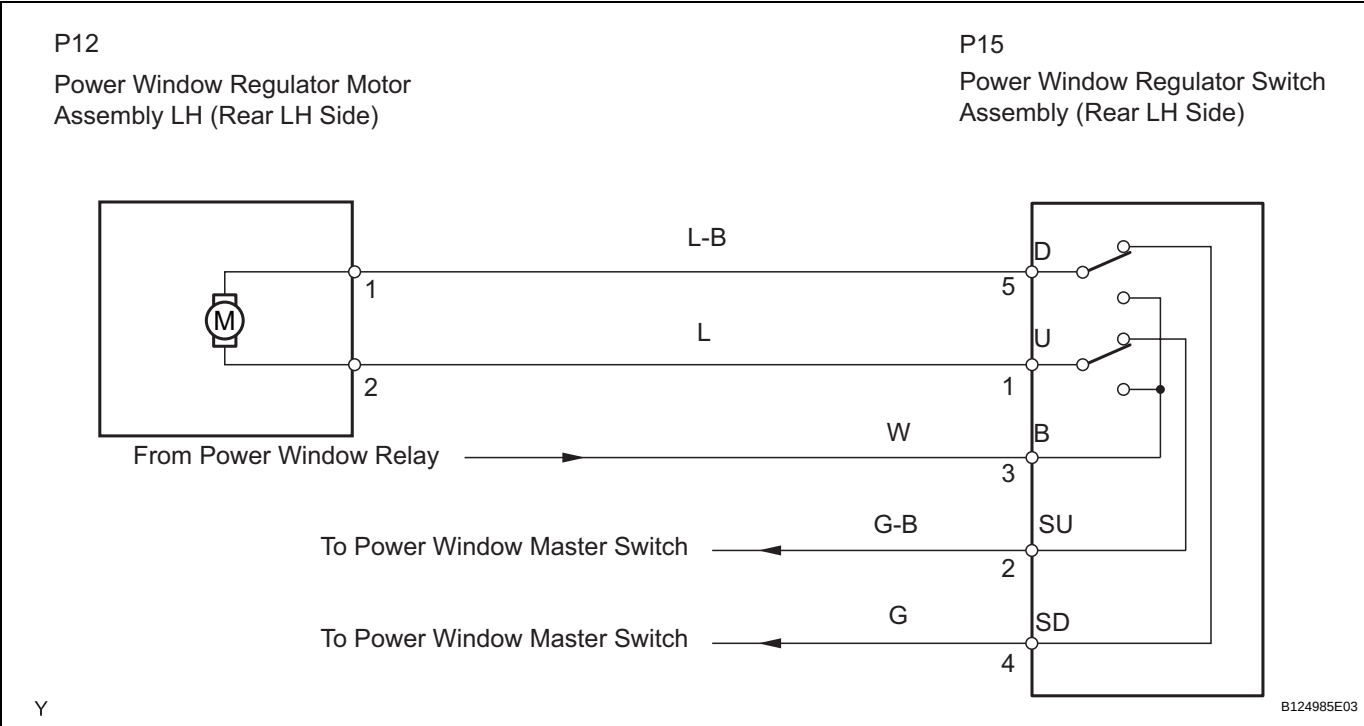
WS

Rear Power Window LH does not Operate with Rear Power Window Switch LH

DESCRIPTION

If the rear LH side manual UP/DOWN function does not operate, the power window regulator motor assembly, the power window regulator switch assembly or the wire harness may be malfunctioning.

WIRING DIAGRAM



1 CHECK REAR POWER WINDOW REGULATOR SWITCH ASSEMBLY (B VOLTAGE)

Wire Harness Side:

Power Window Regulator Switch Assembly (Rear LH Side)

P15

1 2 3 4 5

Front View

B

B062901E05

- (a) Disconnect the P15 power window regulator switch connector.
- (b) Turn the ignition switch ON.
- (c) Measure the voltage.

Standard

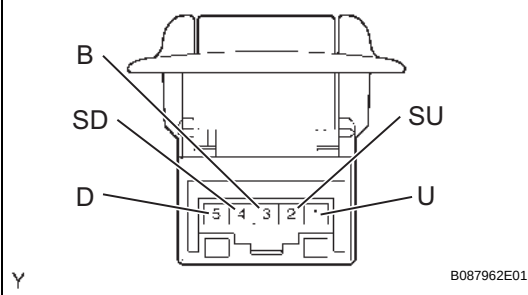
Tester Connection	Condition	Specified Condition
P15-3 (B) - Body ground	Ignition switch ON	10 to 14 V

- (d) Reconnect the power window regulator switch connector.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR (DRIVER SIDE J/B - REGULATOR SWITCH)

OK

2**INSPECT POWER WINDOW REGULATOR SWITCH ASSEMBLY (REAR LH) (SWITCH OPERATION)****Component Side:**

- Remove the power window regulator switch.
- Disconnect the P15 power window regulator switch connector.
- Measure the resistance between the terminals of the connector when the switch is operated.

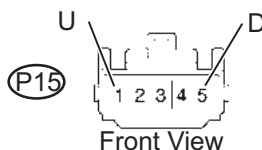
Standard

Tester Connection	Regulator Switch	Specified Condition
P15-5 (D) - P15-4 (SD) P15-1 (U) - P15-3 (B)	UP	Below 1 Ω
P15-5 (D) - P15-4 (SD) P15-1 (U) - P15-2 (SU)	OFF	Below 1 Ω
P15-5 (D) - P15-3 (B) P15-1 (U) - P15-2 (SU)	DOWN	Below 1 Ω

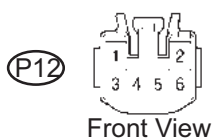
- Reconnect the power window regulator switch connector.
- Reinstall the power window regulator switch.

NG**REPLACE REAR POWER WINDOW REGULATOR SWITCH ASSEMBLY****OK****3****CHECK HARNESS AND CONNECTOR (REGULATOR SWITCH - REGULATOR MOTOR AND BODY GROUND)****Wire Harness Side:**

Power Window Regulator Switch Assembly (Rear LH Side)



Power Window Regulator Motor Assembly LH (Rear LH Side)



- Disconnect the P15 power window regulator switch connector.
- Disconnect the P12 power window regulator motor connector.
- Measure the resistance.

Standard

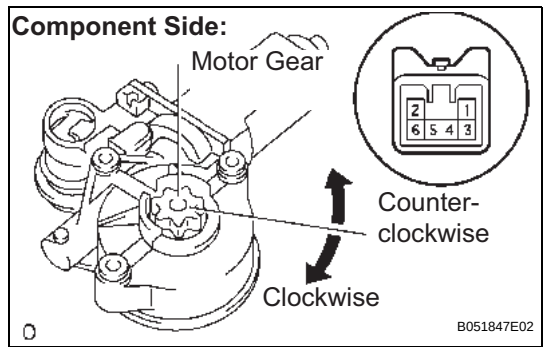
Tester Connection	Specified Condition
P15-5 (D) - P12-1	Below 1 Ω
P15-1 (U) - P12-2	Below 1 Ω
P15-5 (D) - Body ground	10 k Ω or higher
P15-1 (U) - Body ground	10 k Ω or higher

- Reconnect the power window regulator switch connector.
- Reconnect the power window regulator motor connector.

NG**REPAIR OR REPLACE HARNESS OR CONNECTOR****OK**

4

INSPECT POWER WINDOW REGULATOR MOTOR ASSEMBLY (REAR LH)



- (a) Remove the power window regulator motor.
 - (b) Apply battery voltage to connector terminals 1 and 2.
 - (c) Check that the motor smoothly rotates.
- NOTICE:**
Do not apply battery voltage to any terminals except terminals 1 and 2.
- OK**

Terminal No.	Specified Condition
Battery positive (+) → 2 Battery negative (-) → 1	Motor gear rotates clockwise
Battery positive (+) → 1 Battery negative (-) → 2	Motor gear rotates counterclockwise

- (d) Reinstall the power window regulator motor.

NG

REPLACE POWER WINDOW REGULATOR MOTOR ASSEMBLY (REAR LH)

OK

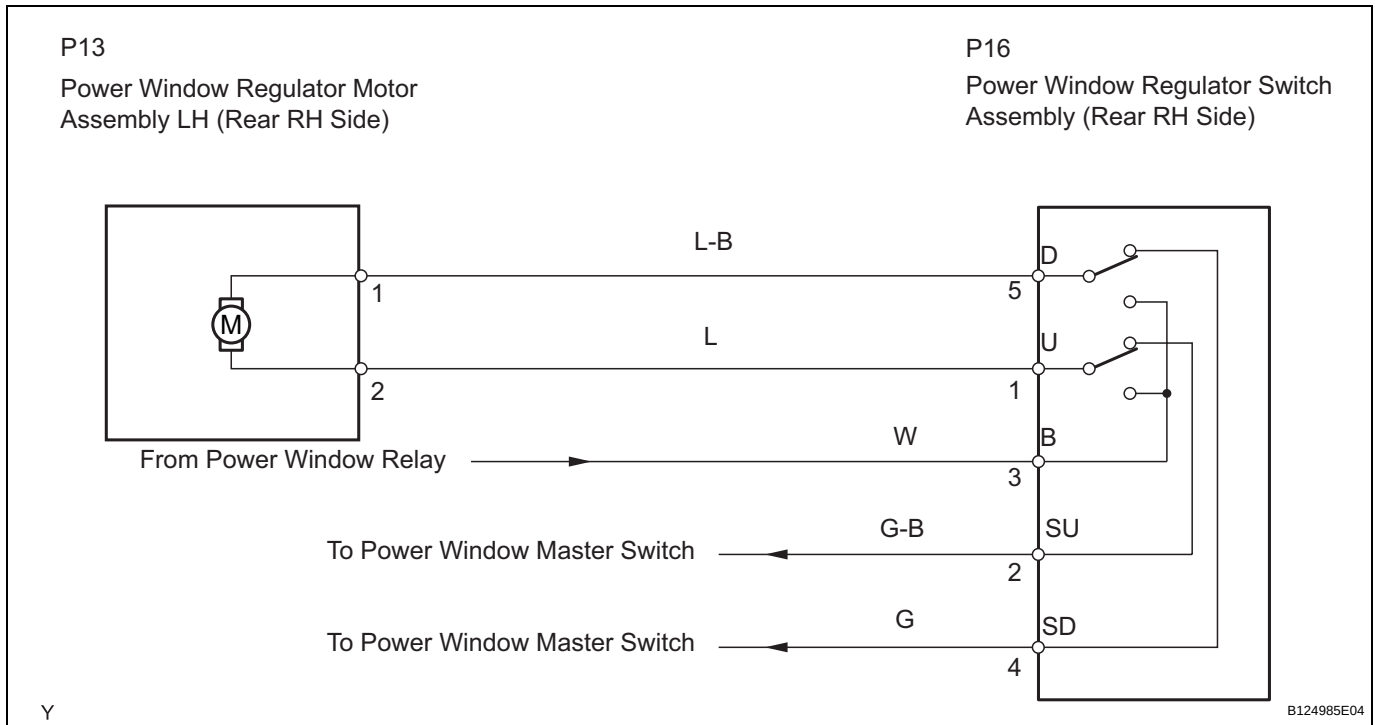
REPAIR OR REPLACE HARNESS OR CONNECTOR (MASTER SWITCH - REGULATOR SWITCH)

Rear Power Window RH does not Operate with Rear Power Window Switch RH

DESCRIPTION

If the rear RH side manual UP/DOWN function does not operate, the power window regulator motor assembly, the power window regulator switch assembly or the wire harness may be malfunctioning.

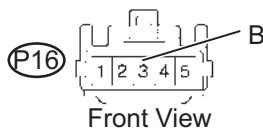
WIRING DIAGRAM



1 CHECK REAR POWER WINDOW REGULATOR SWITCH ASSEMBLY (B VOLTAGE)

Wire Harness Side:

Power Window Regulator Switch Assembly (Rear RH Side)



B062901E06

- Disconnect the P16 power window regulator switch connector.
- Turn the ignition switch ON.
- Measure the voltage.

Standard

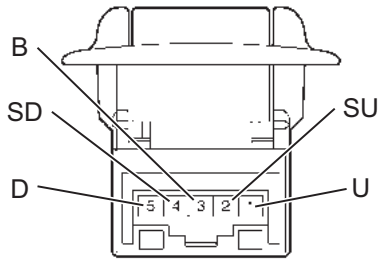
Tester Connection	Condition	Specified Condition
P16-3 (B) - Body ground	Ignition switch ON	10 to 14 V

- Reconnect the power window regulator switch connector.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR (DRIVER SIDE J/B - REGULATOR SWITCH)

OK

2**INSPECT REAR POWER WINDOW REGULATOR SWITCH ASSEMBLY (SWITCH OPERATION)****Component Side:**

Y

B087962E01

- (a) Remove the power window regulator switch.
- (b) Disconnect the P16 power window regulator switch connector.
- (c) Measure the resistance between the terminals of the connector when the switch is operated.

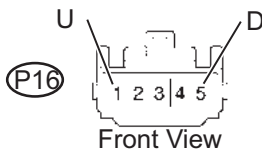
Standard

Tester Connection	Regulator Switch	Specified Condition
P16-5 (D) - P16-4 (SD) P16-1 (U) - P16-3 (B)	UP	Below 1 Ω
P16-5 (D) - P16-4 (SD) P16-1 (U) - P16-2 (SU)	OFF	Below 1 Ω
P16-1 (D) - P16-3 (B) P16-1 (U) - P16-2 (SU)	DOWN	Below 1 Ω

- (d) Reconnect the power window regulator switch connector.
- (e) Reinstall the power window regulator switch.

NG**REPLACE REAR POWER WINDOW REGULATOR SWITCH ASSEMBLY****OK****3****CHECK HARNESS AND CONNECTOR (REGULATOR SWITCH - REGULATOR MOTOR AND BODY GROUND)****Wire Harness Side:**

Power Window Regulator Switch Assembly (Rear RH Side)



Power Window Regulator Motor Assembly RH (Rear RH Side)



B063164E04

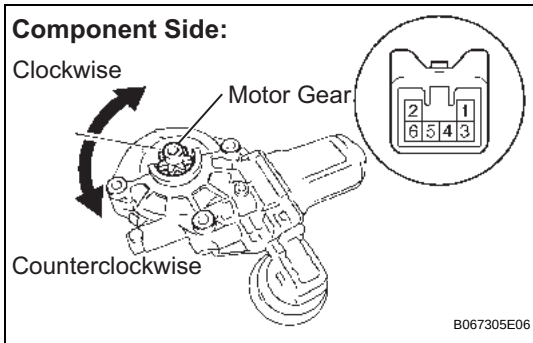
- (a) Disconnect the P16 power window regulator switch connector.
- (b) Disconnect the P13 power window regulator motor connector.
- (c) Measure the resistance.

Standard

Tester Connection	Specified Condition
P16-5 (D) - P13-1	Below 1 Ω
P16-1 (U) - P13-2	Below 1 Ω
P16-5 (D) - Body ground	10 k Ω or higher
P16-1 (U) - Body ground	10 k Ω or higher

- (d) Reconnect the power window regulator switch connector.
- (e) Reconnect the power window regulator motor connector.

NG**REPAIR OR REPLACE HARNESS OR CONNECTOR****OK**

4**INSPECT POWER WINDOW REGULATOR MOTOR ASSEMBLY (REAR RH)**

- (a) Remove the power window regulator motor.
- (b) Apply battery voltage to connector terminals 1 and 2.
- (c) Check that the motor smoothly rotates.

NOTICE:

Do not apply battery voltage to any terminals except terminals 1 and 2.

OK

Terminal No.	Specified Condition
Battery positive (+) → 1 Battery negative (-) → 2	Motor gear rotates clockwise
Battery positive (+) → 2 Battery negative (-) → 1	Motor gear rotates counterclockwise

- (d) Reinstall the power window regulator motor.

NG

REPLACE POWER WINDOW REGULATOR MOTOR ASSEMBLY (REAR RH)

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (REGULATOR MASTER SWITCH - REGULATOR SWITCH)

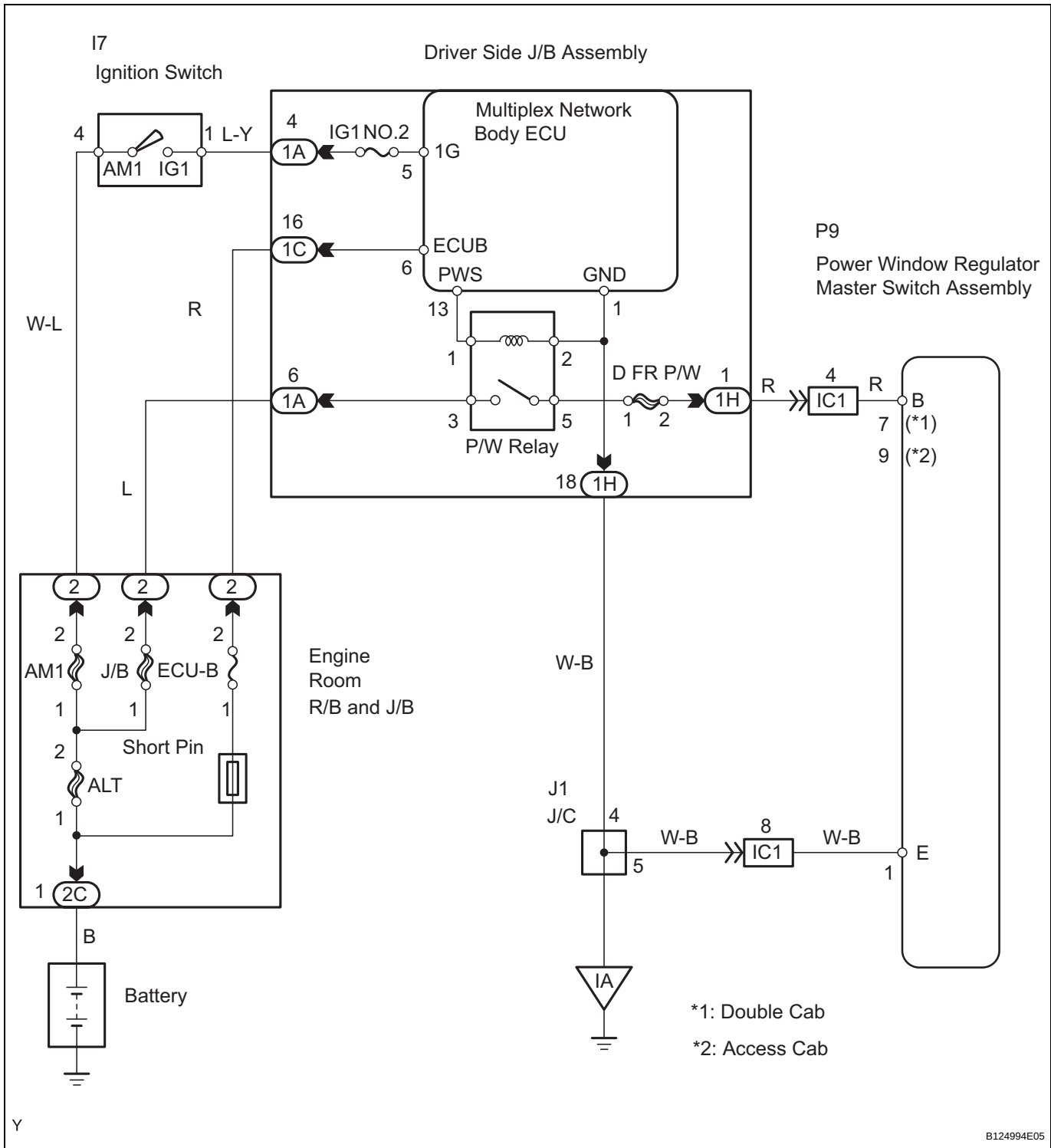
WS

Power Windows do not Operate at All

DESCRIPTION

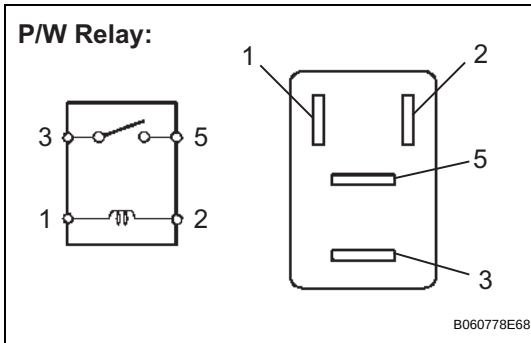
If none of the door windows operate, there may be a failure in the supply of power to the power window regulator master switch assembly, or the power window regulator master switch itself may be malfunctioning.

WIRING DIAGRAM



1 INSPECT FUSE (D FR P/W, IG1 NO.2, ECU-B, AM1, J/B)

- (a) Remove the D FR P/W and IG1 No.2 fuses from the driver side J/B.
- (b) Remove the ECU-B, AM1 and J/B fuses from the engine room R/B.
- (c) Measure the resistance.
Standard resistance:
Below 1 Ω
- (d) Reinstall the D FR P/W and IG1 No.2 fuses.
- (e) Reinstall the ECU-B, AM1 and J/B fuses.

NG**REPLACE FUSE****OK****2 INSPECT RELAY (P/W)**

- (a) Remove the P/W relay from the driver side J/B.
- (b) Measure the resistance.

Standard voltage

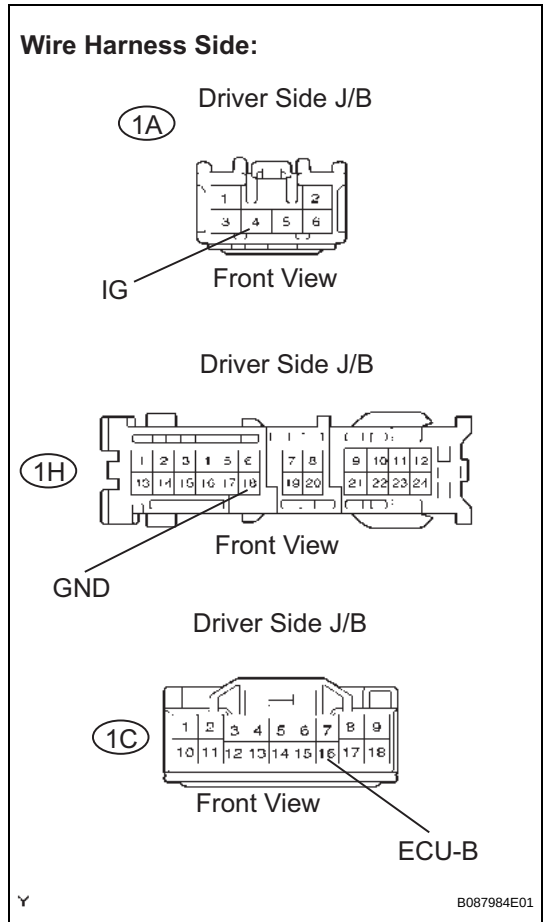
Tester Connection	Specified Condition
3 - 5	10 k Ω or higher
3 - 5	Below 1 Ω (when battery voltage is applied to terminals 1 and 2)

- (c) Reinstall the P/W relay.

NG**REPLACE RELAY****OK****WS**

3

CHECK HARNESS AND CONNECTOR (FOR POWER SOURCE OF DRIVER SIDE J/B ASSEMBLY)



OK

- (a) Disconnect the 1A,1C, and 1H driver side J/B connectors.
- (b) Measure the voltage and resistance.

Standard voltage

Tester Connection	Condition	Specified Condition
1A-6 - Body ground	Constant	10 to 14 V
1C-16 (ECU-B) - Body ground	Constant	10 to 14 V
1A-4 (IG) - Body ground	Ignition switch ON	10 to 14 V

Standard resistance

Tester Connection	Condition	Specified Condition
1H-18 (GND) - Body ground	Constant	Below 1 Ω

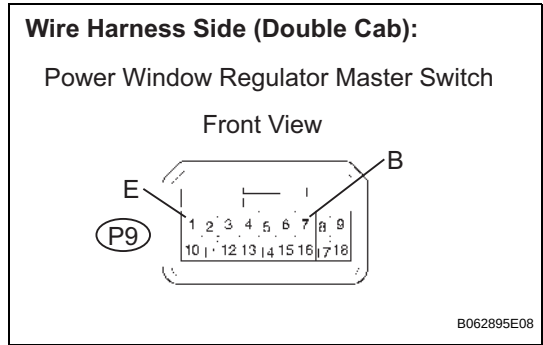
- (c) Reconnect the driver side J/B connectors.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

4

CHECK HARNESS AND CONNECTOR (POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY - BODY GROUND)



- (a) Disconnect the P9 power window regulator master switch connector.
- (b) Measure the voltage or resistance.

Standard voltage:

Double cab

Tester Connection	Condition	Specified Condition
P9-7 (B) - Body ground	Ignition switch ON	10 to 14 V

Access cab

Tester Connection	Condition	Specified Condition
P9-9 (B) - Body ground	Ignition switch ON	10 to 14 V

Standard resistance:

Double cab

Tester Connection	Condition	Specified Condition
P9-1 (E) - Body ground	Constant	Below 1 Ω

Access cab

Tester Connection	Condition	Specified Condition
P9-1 (E) - Body ground	Constant	Below 1 Ω

- (c) Reconnect the power window regulator master switch connector.

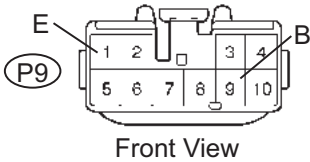
OK

REPLACE POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY

WS

Wire Harness Side (Access Cab):

Power Window Regulator Master Switch



Y

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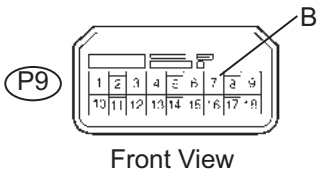
NG

5

CHECK HARNESS AND CONNECTOR (DRIVER SIDE J/B - POWER WINDOW REGULATOR MASTER SWITCH)

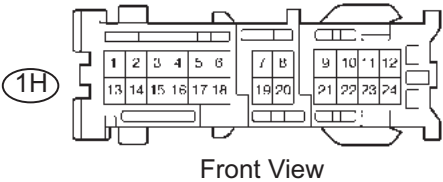
Wire Harness Side (Double Cab):

Power Window Regulator Master Switch



Front View

Driver Side J/B



Y

B087985E01

- (a) Disconnect the 1H driver side J/B connectors.
(b) Disconnect the P9 power window regulator master switch connector.
(c) Measure the resistance.

Standard resistance (Double cab)

Tester Connection	Specified Condition
1H-1 - P9-7 (B)	Below 1 Ω

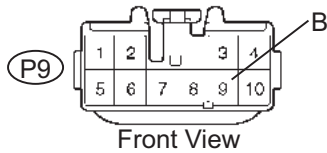
Standard resistance (Access cab)

Tester Connection	Specified Condition
1H-1 - P9-9 (B)	Below 1 Ω

- (d) Reconnect the driver side J/B connector.

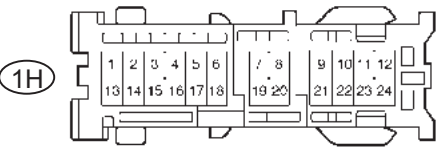
Wire Harness Side (Access Cab):

Power Window Regulator Master Switch



Front View

Driver Side J/B



Front View

Y

B087986E01

- (e) Reconnect the power window regulator master switch connector.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE DRIVER SIDE JUNCTION BLOCK

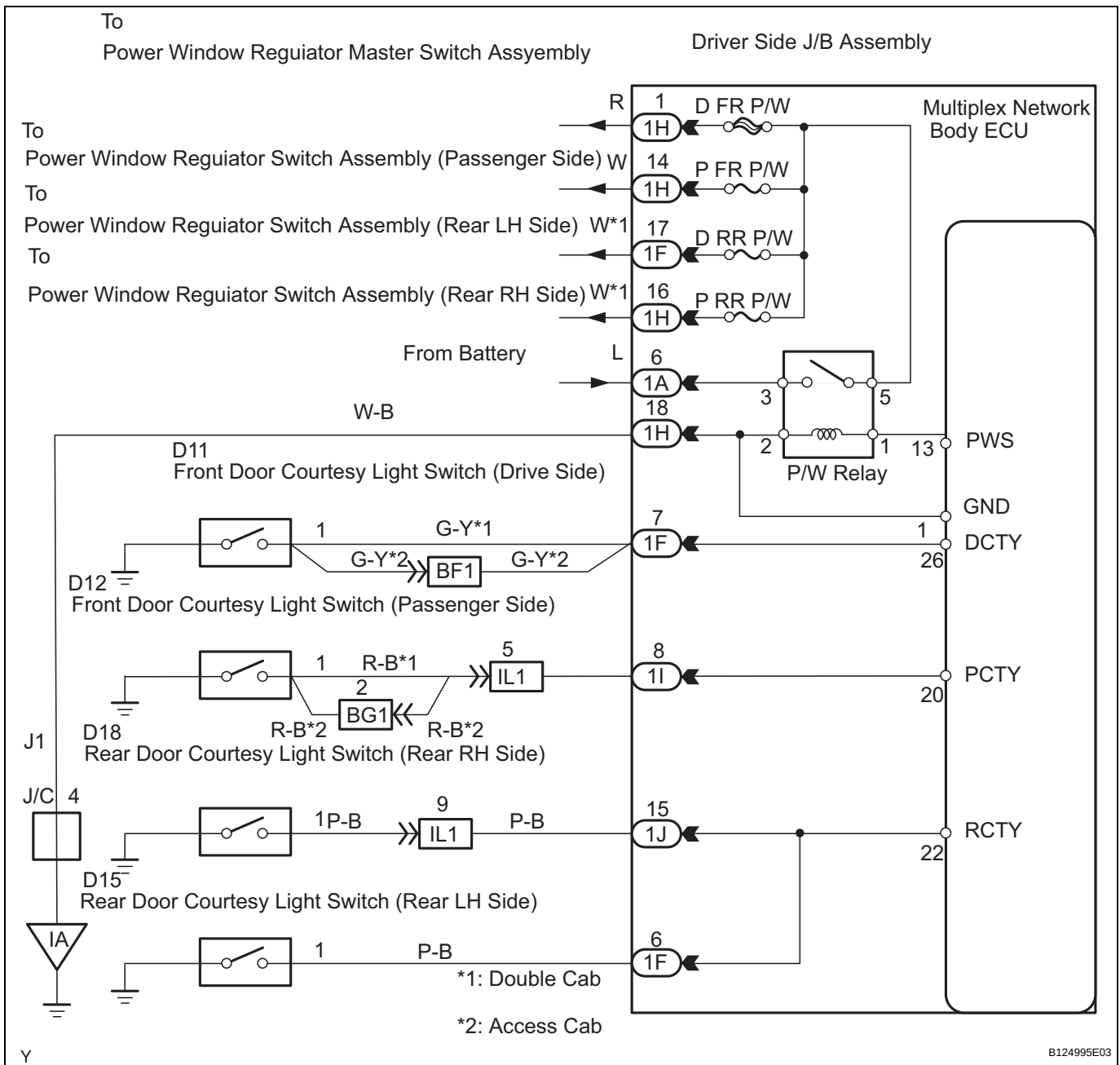
WS

Power Window can be Operated After Ignition Switch is Turned OFF Even if Operative Conditions are not Met

DESCRIPTION

The multiplex network body ECU keeps power supplied to the power window regulator master switch assembly and the regulator switch for 43 seconds after the ignition switch is turned OFF. However, if either front door is opened, if a signal from any of the front door courtesy light switches is input to the ECU during this period, or if 43 seconds pass with no action being taken, the body ECU cuts power to the master switch assembly.

WIRING DIAGRAM



1

CHECK OPERATION FUNCTION AFTER IGNITION SWITCH IS TURNED OFF

- (a) After the ignition switch is turned OFF:
- (1) Either front door is opened within 43 seconds but the power window can still operate. Proceed to A.
 - (2) 43 seconds pass and the power window can still operate. Proceed to B.

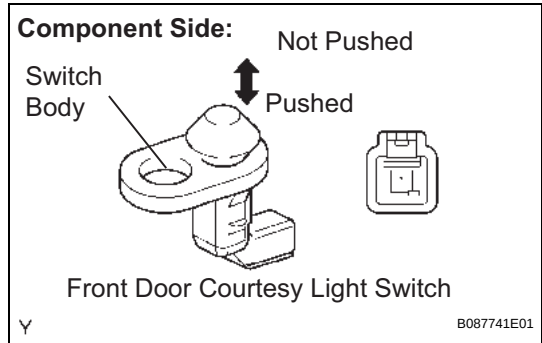
B

REPLACE POWER WINDOW REGULATOR SWITCH ASSEMBLY

A

2

INSPECT FRONT DOOR COURTESY LIGHT SWITCH ASSEMBLY



- (a) Remove the front door courtesy light switch.
- (b) Measure the switch resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
1 - Switch body	Switch pushed	10 kΩ or higher
1 - Switch body	Switch not pushed	Below 1 Ω

- (c) Reinstall the front door courtesy light switch.

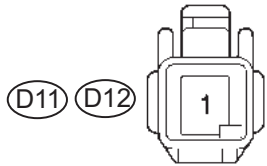
NG

REPLACE FRONT DOOR COURTESY LIGHT SWITCH ASSEMBLY

OK

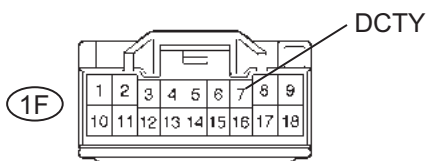
3**CHECK HARNESS AND CONNECTOR (FRONT DOOR COURTESY LIGHT SWITCH - DRIVER SIDE J/B (ECU))****Wire Harness Side:**

Front Door Courtesy Light Switch



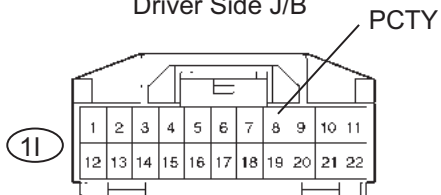
Front View

Driver Side J/B



Front View

Driver Side J/B



Front View

Y

B088353E01

- (a) Disconnect the D11 and D12 front door courtesy light switch connector.
- (b) Disconnect the 1F and 1I driver side J/B connector.
- (c) Measure the resistance.

Standard resistance

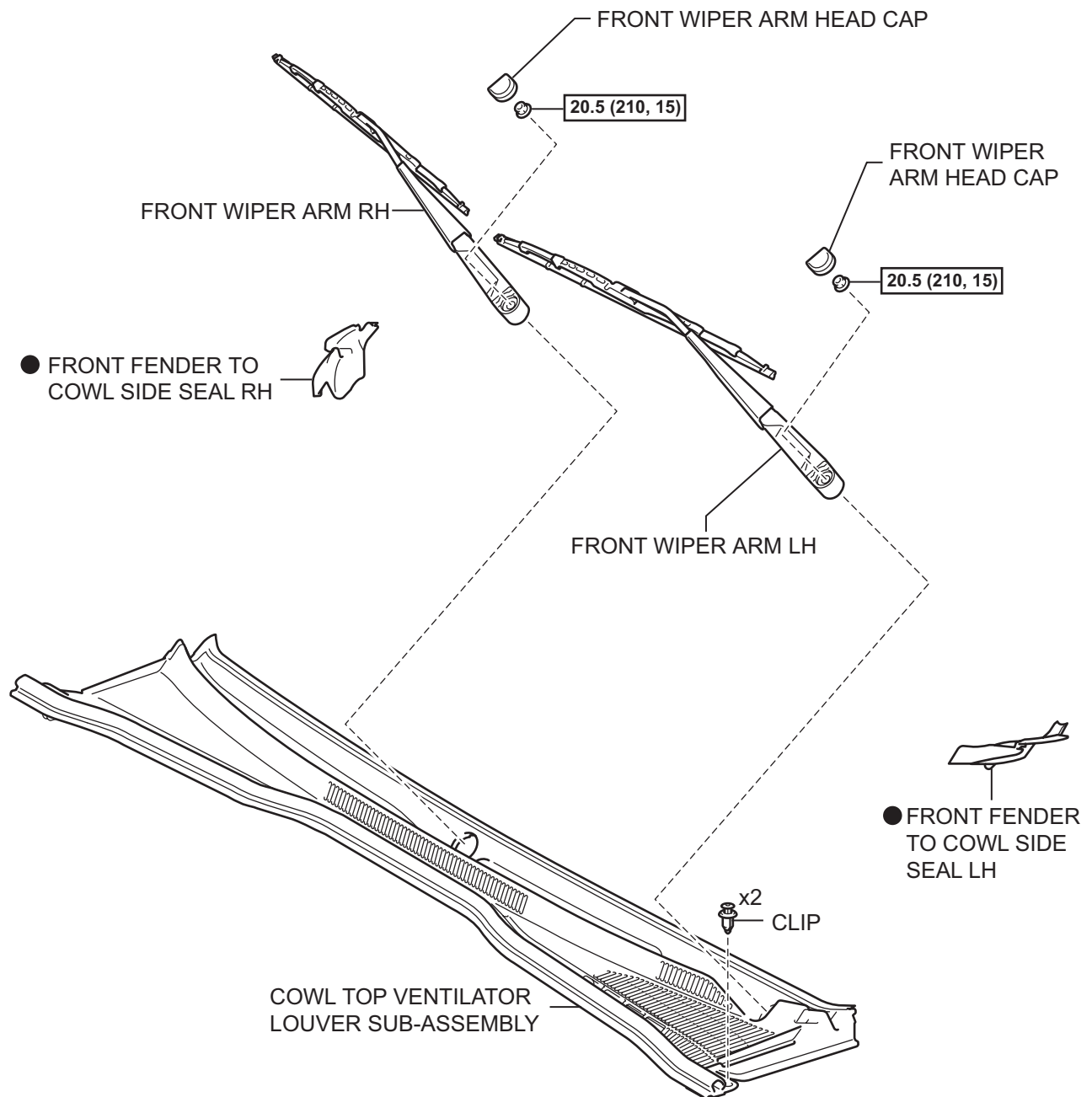
Tester Connection	Specified Condition
D11-1 - DCTY (1F-7)	Below 1 Ω
D12-1 - PCTY (1I-8)	Below 1 Ω

- (d) Reconnect the front door courtesy light switch connector.
- (e) Reconnect the driver side J/B connector.

NG**REPAIR OR REPLACE HARNESS OR CONNECTOR****OK****REPLACE DRIVER SIDE JUNCTION BLOCK (MULTIPLEX NETWORK BODY ECU)****WS**

WINDSHIELD GLASS

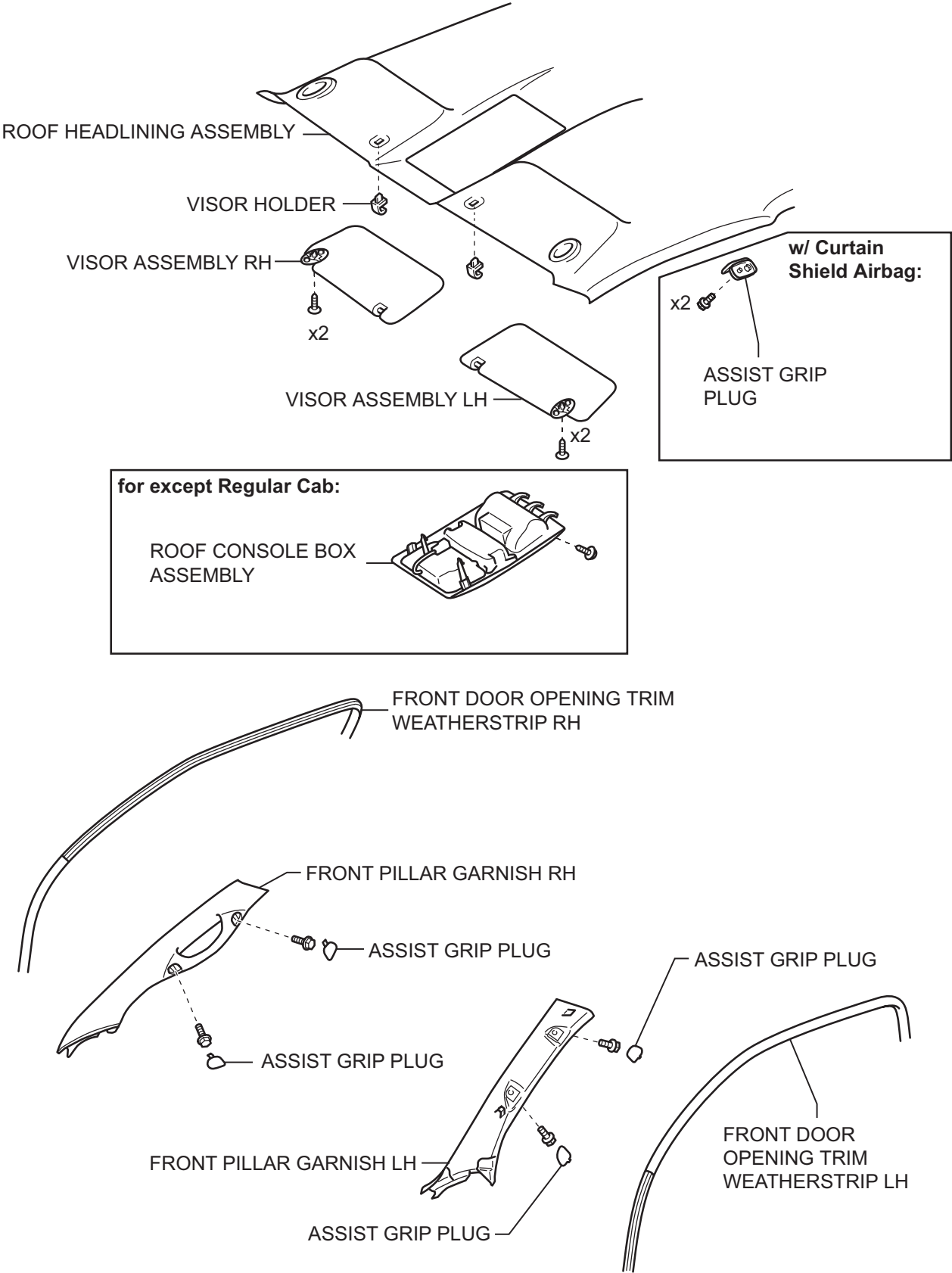
COMPONENTS

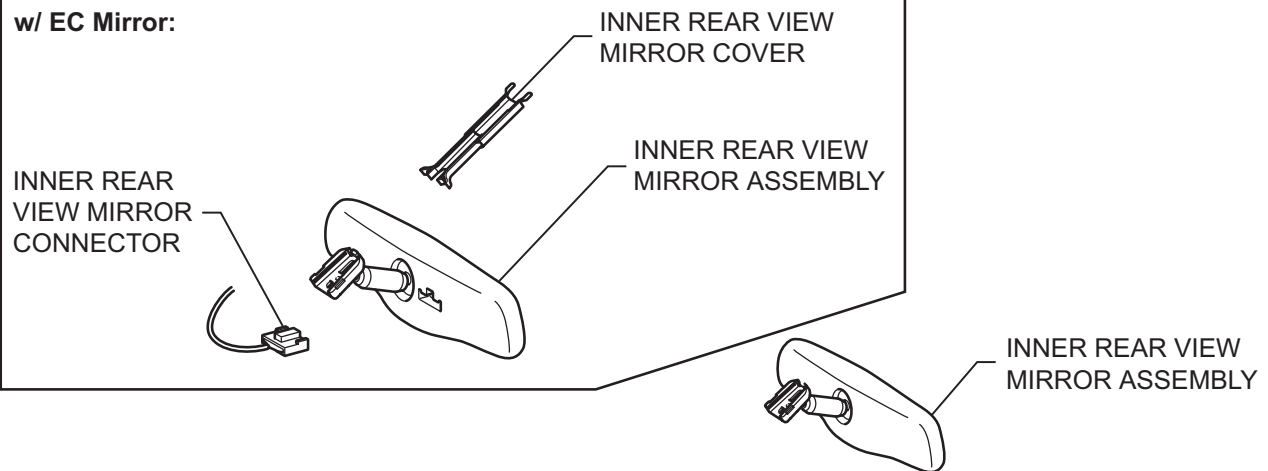


N*m (kgf*cm, ft*lbf) : Specified torque

● Non-reusable part

WS



w/ EC Mirror:**2 Piece Type:**

● NO. 2 WINDSHIELD GLASS STOPPER

● NO. 1 WINDSHIELD GLASS STOPPER

● NO. 1 WINDSHIELD GLASS STOPPER

● WINDSHIELD GLASS ADHESIVE DAM

● NO. 1 WINDSHIELD GLASS STOPPER

WINDSHIELD GLASS

● WINDSHIELD UPPER MOLDING OUTER

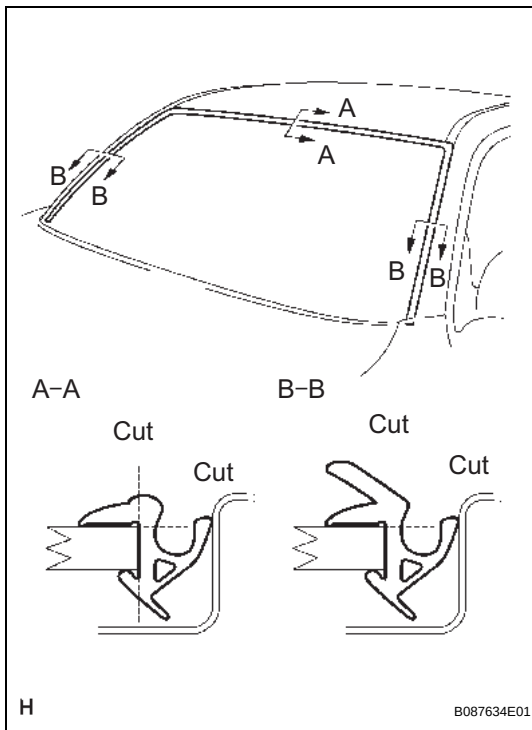
● WINDSHIELD GLASS ADHESIVE DAM

● Non-reusable part

REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE FRONT WIPER ARM HEAD CAP** (See page [WW-7](#))
3. **REMOVE FRONT WIPER ARM LH** (See page [WW-8](#))
4. **REMOVE FRONT WIPER ARM RH** (See page [WW-8](#))
5. **REMOVE FRONT FENDER TO COWL SIDE SEAL LH**
(See page [WW-8](#))
6. **REMOVE FRONT FENDER TO COWL SIDE SEAL RH**
HINT:
Follow the same procedures as for the fender to cowl side seal LH.
7. **REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY** (See page [WW-8](#))
8. **REMOVE INNER REAR VIEW MIRROR ASSEMBLY**
(See page [MI-4](#))
9. **REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH**
(a) Separate the front door opening trim weatherstrip to the extent which allows the removal of the front pillar garnish.
10. **REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP RH**
HINT:
Follow the same procedures as for the front door opening trim weatherstrip LH.
11. **REMOVE FRONT PILLAR GARNISH LH (for Regular Cab)** (See page [IR-41](#))
12. **REMOVE FRONT PILLAR GARNISH LH (for Access Cab)** (See page [IR-62](#))
13. **REMOVE FRONT PILLAR GARNISH LH (for Double Cab)** (See page [IR-13](#))
14. **REMOVE FRONT PILLAR GARNISH RH (for Regular Cab)**
HINT:
Follow the same procedures as for the front pillar garnish LH.
15. **REMOVE FRONT PILLAR GARNISH RH (for Access Cab)**
HINT:
Follow the same procedures as for the front pillar garnish LH.

16. **REMOVE FRONT PILLAR GARNISH RH (for Double Cab)**
HINT:
Follow the same procedures as for the front pillar garnish LH.
17. **REMOVE ROOF CONSOLE BOX ASSEMBLY (for Access Cab) (See page [IR-66](#))**
18. **REMOVE ROOF CONSOLE BOX ASSEMBLY (for Double Cab) (See page [IR-18](#))**
19. **REMOVE ASSIST GRIP PLUG (w/ Curtain Shield Airbag) (See page [IR-19](#))**
20. **REMOVE ASSIST GRIP SUB-ASSEMBLY (for Double Cab) (See page [IR-18](#))**
21. **REMOVE VISOR ASSEMBLY LH (for Regular Cab) (See page [IR-45](#))**
22. **REMOVE VISOR ASSEMBLY LH (for Access Cab) (See page [IR-67](#))**
23. **REMOVE VISOR ASSEMBLY RH (for Double Cab) (See page [IR-19](#))**
24. **REMOVE VISOR ASSEMBLY RH (for Regular Cab)**
HINT:
Follow the same procedures as for the LH visor.
25. **REMOVE VISOR ASSEMBLY RH (for Access Cab)**
HINT:
Follow the same procedures as for the LH visor.
26. **REMOVE VISOR ASSEMBLY RH (for Double Cab)**
HINT:
Follow the same procedures as for the LH visor.
27. **REMOVE VISOR HOLDER (for Regular Cab) (See page [IR-45](#))**
28. **REMOVE VISOR HOLDER (for Access Cab) (See page [IR-67](#))**
29. **REMOVE VISOR HOLDER (for Double Cab) (See page [IR-19](#))**



30. REMOVE WINDSHIELD UPPER MOLDING OUTER

- (a) Using a knife, cut off the windshield upper moulding outer, as shown in the illustration.

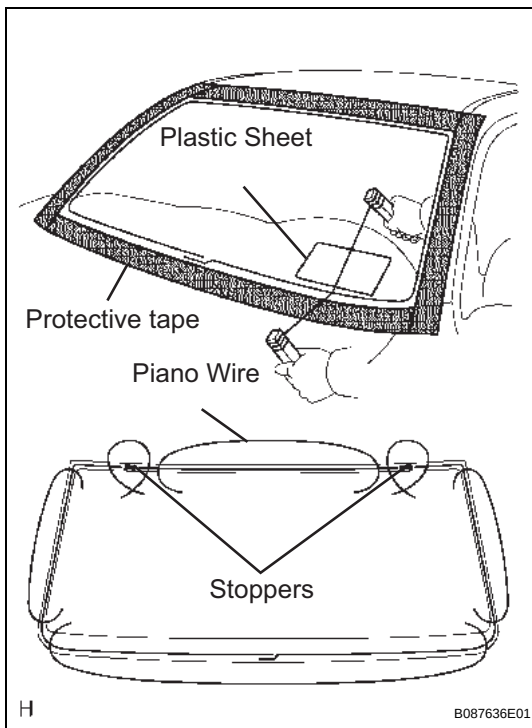
NOTICE:

Be careful not to damage the vehicle body with the knife.

- (b) Remove the windshield upper moulding outer.

HINT:

Make a partial cut in the windshield upper moulding outer. Then pull and remove it by hand.



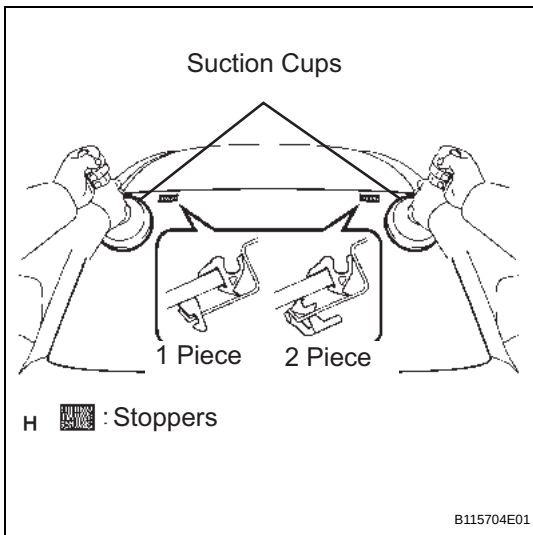
31. REMOVE WINDSHIELD GLASS

- (a) Apply protective tape to the outer circumference of the windshield glass, as shown in the illustration.
- (b) From the interior, insert piano wires between the vehicle body and windshield glass, as shown in the illustration.
- (c) Tie objects that can serve as handles (for example, wooden blocks) to all wire ends.

NOTICE:

- When separating the windshield glass from the vehicle, be careful not to damage the vehicle's paint or exterior/interior ornaments.
- To prevent the safety pad from being scratched when removing the windshield glass, place a plastic sheet between the piano wire and safety pad.

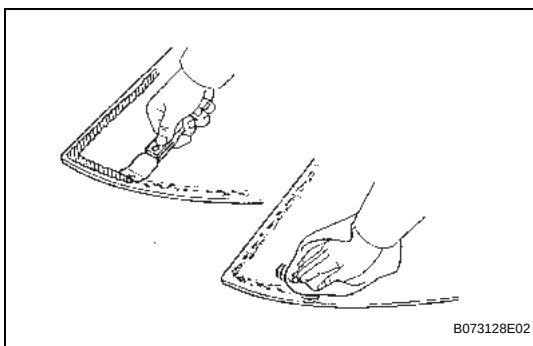
- (d) Cut through the adhesive by pulling the piano wire around the windshield glass.



- (e) Disengage the 2 stoppers.
- (f) Using suction cups, remove the windshield glass.

NOTICE:

Leave as much adhesive on the vehicle body as possible when removing the windshield glass.

**INSTALLATION****1. CLEAN WINDSHIELD GLASS**

- (a) Using a scraper, remove the damaged stoppers, dam and adhesive stuck to the windshield glass.
- (b) Clean the outer circumference of the windshield glass with white gasoline.

NOTICE:

- **Do not touch the windshield glass surface after cleaning it.**
- **Even if using a new windshield glass, clean the windshield glass with white gasoline.**

2. CLEAN VEHICLE BODY

- (a) Clean and shape the contact surface of the vehicle body.

- (1) Using a knife, cut away any rough adhesive on the contact surface of the vehicle body to ensure the appropriate surface shape.

NOTICE:

Be careful not to damage the vehicle body.

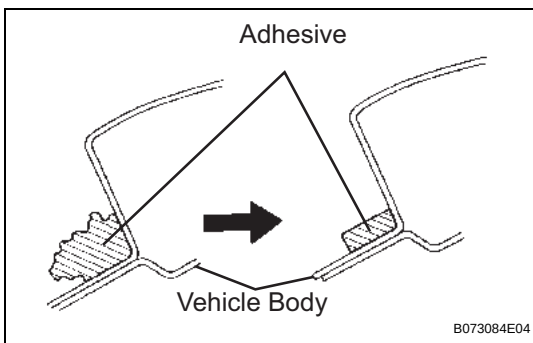
HINT:

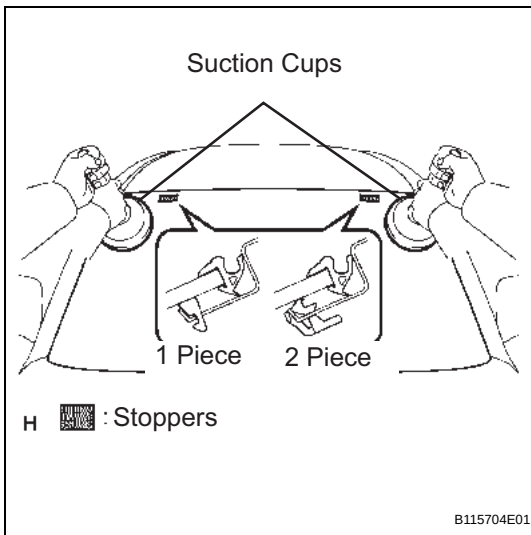
Leave as much adhesive on the vehicle body as possible.

- (2) Clean the contact surface of the vehicle body with a shop rag saturated with cleaner.

HINT:

Even if all the adhesive has been removed, clean the vehicle body.

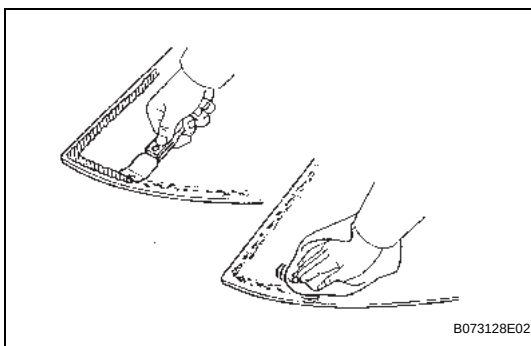




- (e) Disengage the 2 stoppers.
- (f) Using suction cups, remove the windshield glass.

NOTICE:

Leave as much adhesive on the vehicle body as possible when removing the windshield glass.

**INSTALLATION****1. CLEAN WINDSHIELD GLASS**

- (a) Using a scraper, remove the damaged stoppers, dam and adhesive stuck to the windshield glass.
- (b) Clean the outer circumference of the windshield glass with white gasoline.

NOTICE:

- **Do not touch the windshield glass surface after cleaning it.**
- **Even if using a new windshield glass, clean the windshield glass with white gasoline.**

2. CLEAN VEHICLE BODY

- (a) Clean and shape the contact surface of the vehicle body.

- (1) Using a knife, cut away any rough adhesive on the contact surface of the vehicle body to ensure the appropriate surface shape.

NOTICE:

Be careful not to damage the vehicle body.

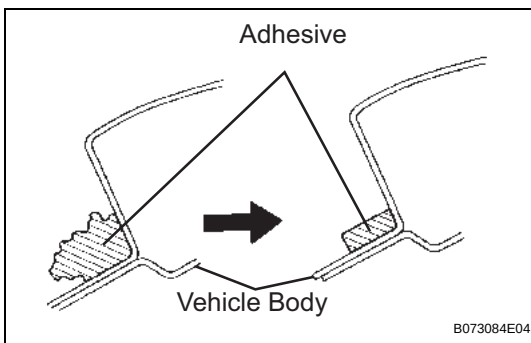
HINT:

Leave as much adhesive on the vehicle body as possible.

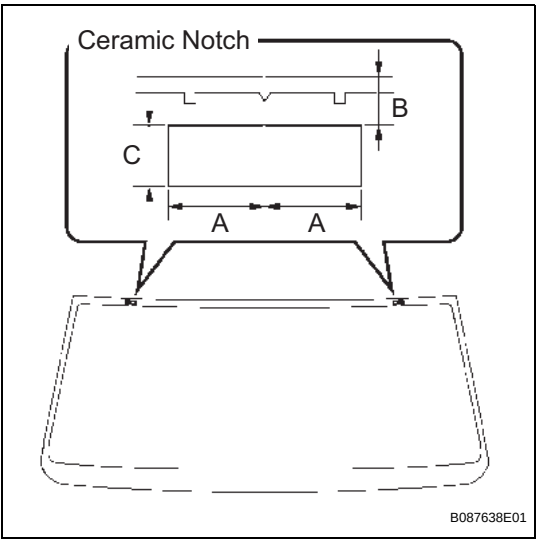
- (2) Clean the contact surface of the vehicle body with a shop rag saturated with cleaner.

HINT:

Even if all the adhesive has been removed, clean the vehicle body.



WS



3. INSTALL NO. 2 WINDSHIELD GLASS STOPPER

- (a) Apply Primer G to the installation part of the stoppers.

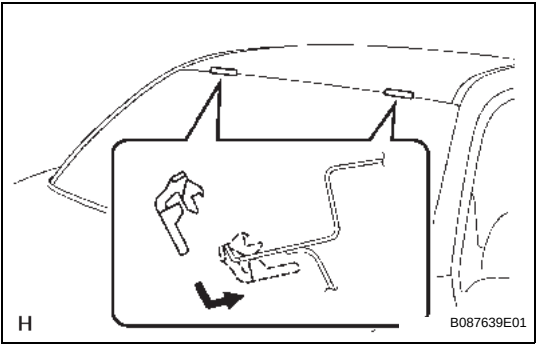
NOTICE:

- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover Primer G.
- Do not apply too much Primer G.

- (b) Install 2 new stoppers onto the windshield glass, as shown in the illustration.

Specification

Area	Measurement
A	40 mm (1.575 in.)
B	9.4 mm (0.37 in.)
C	12.5 mm (0.482 in.)



4. INSTALL NO. 1 WINDSHIELD GLASS STOPPER

- (a) Install 2 new stoppers onto the vehicle body, as shown in the illustration.

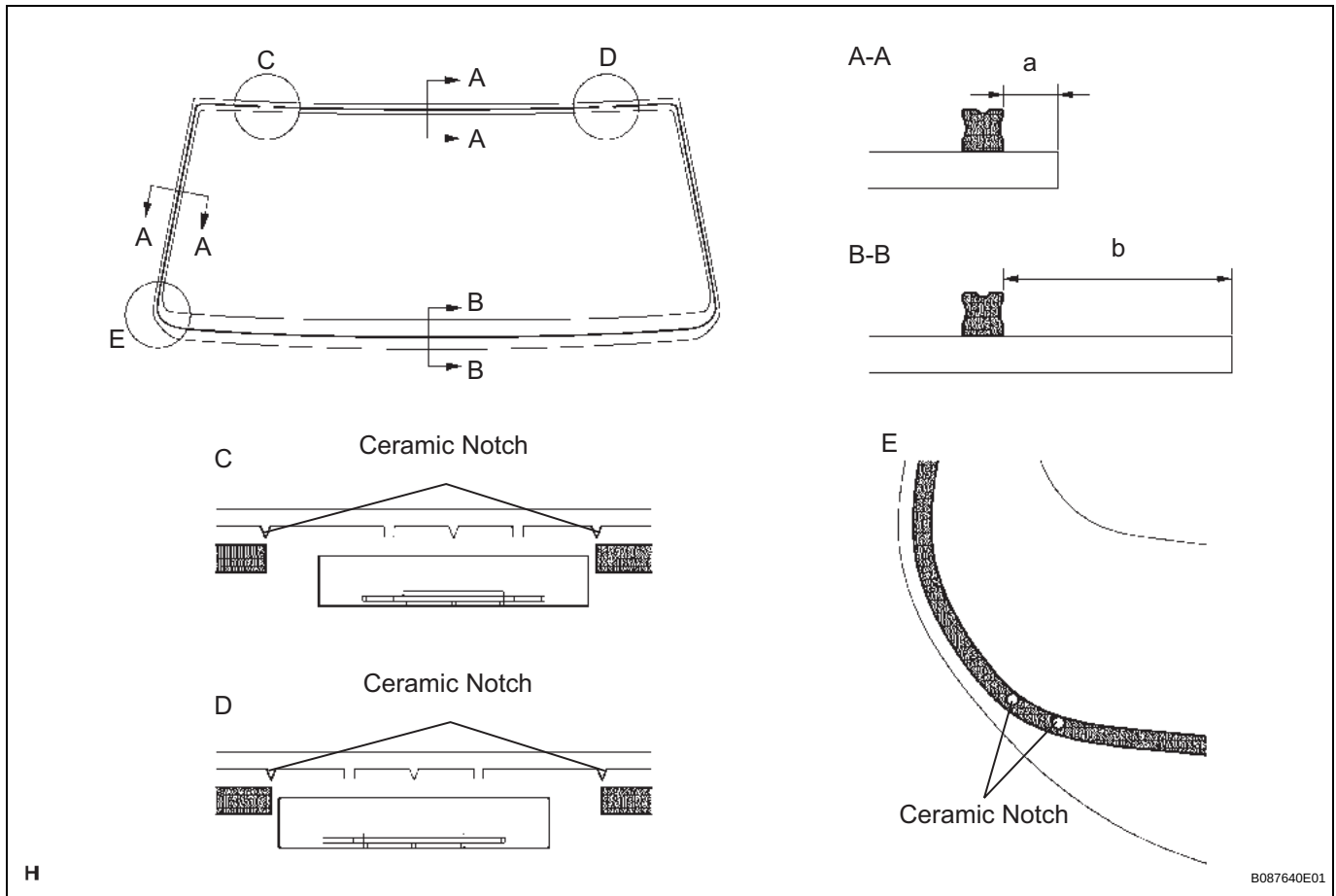
5. INSTALL WINDSHIELD GLASS ADHESIVE DAM

- (a) Apply Primer G to the illustration part of the dam.

NOTICE:

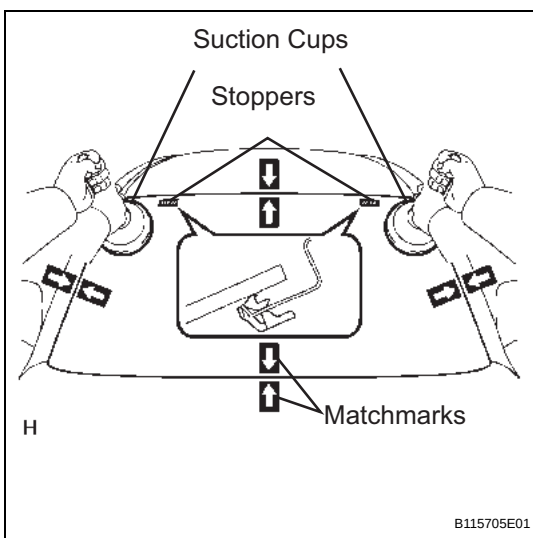
- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover Primer G.
- Do not apply too much Primer G.

- (b) Install 3 new dams. Install the 3 new dams by applying double-sided tape all the way around the windshield glass except where the stoppers are installed, as shown in the illustration.



Specification

Area	Measurement
a	7.0 mm (0.276 in.)
b	30.9 mm (1.217 in.)



6. INSTALL WINDSHIELD GLASS

- (a) Position the windshield glass.
- (1) Using suction cups, place the windshield glass in the correct position.
 - (2) Check that the whole contact surface of the windshield glass rim is perfectly even.
 - (3) Place matchmarks over the windshield glass and vehicle body.

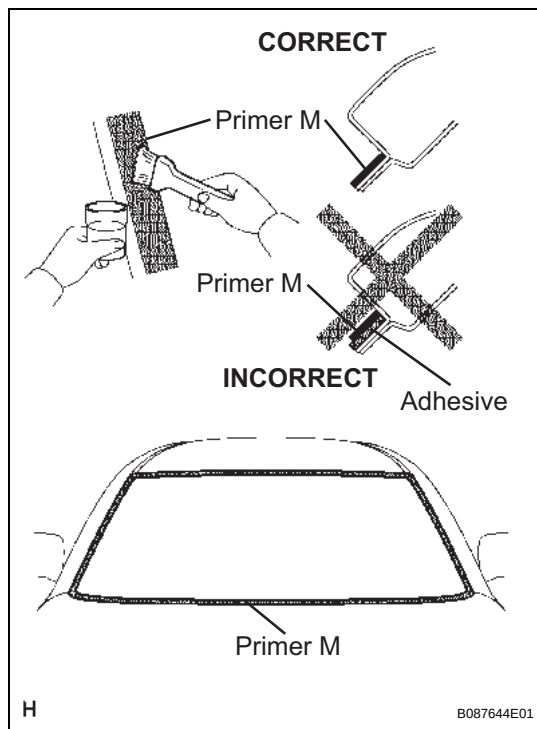
NOTICE:

Check that the stoppers are attached to the vehicle body correctly.

HINT:

When reusing the windshield glass, check and correct the matchmark positions.

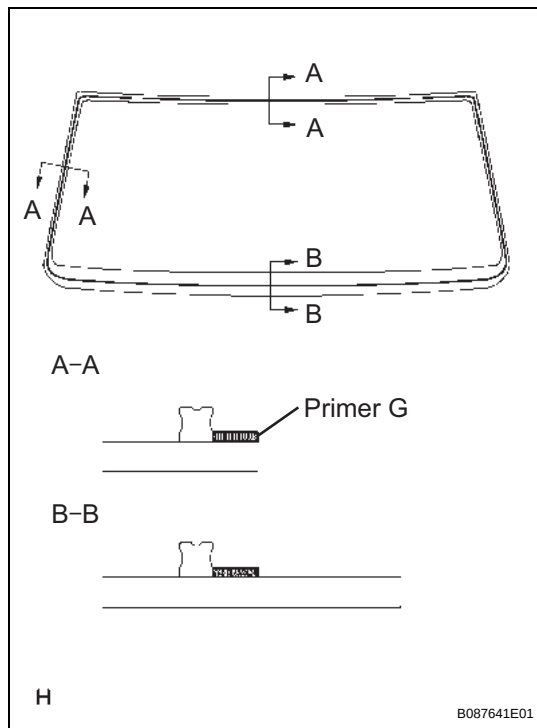
- (4) Using suction cups, remove the windshield glass.



- (b) Using a brush, apply Primer M to the exposed part of the vehicle body.

NOTICE:

- Allow the primer to dry for 3 minutes or more.
- Do not apply Primer M to the adhesive.
- Throw away any leftover Primer M.
- Do not apply too much Primer M.



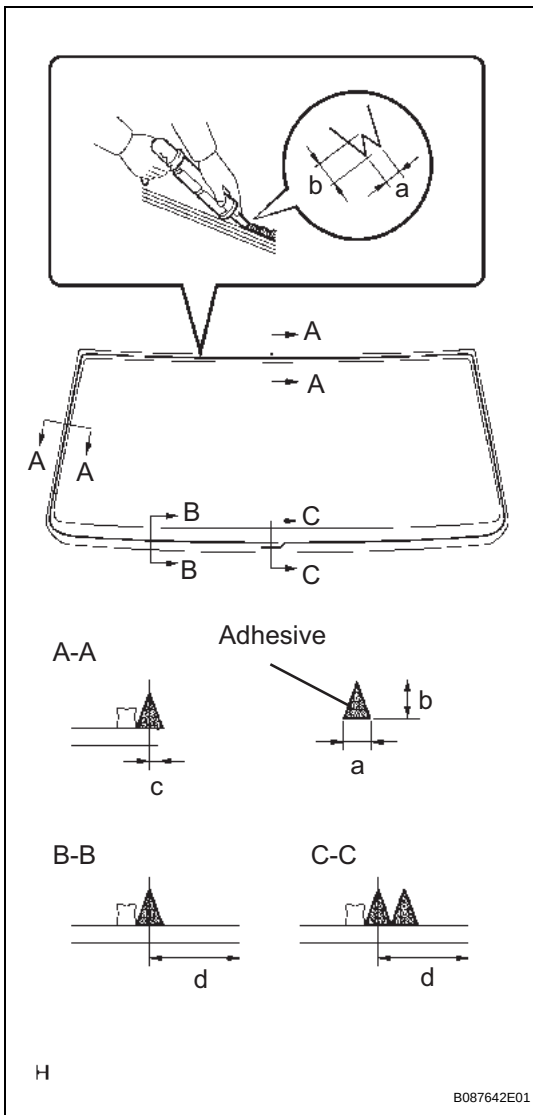
- (c) Using a brush or sponge, apply Primer G to the edge of the windshield glass and contact surface.

NOTICE:

- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover Primer G.
- Do not apply too much Primer G.

HINT:

If Primer G is applied to any areas other than that which is specified, wipe off the primer with a clean shop rag before it dries.



- (d) Apply adhesive.

Adhesive:

Part No. 08850-00801 or equivalent

- (1) Cut off the tip of the cartridge nozzle, as shown in the illustration.

HINT:

After cutting off the tip, use all adhesive within the times indicated in the table bellow.

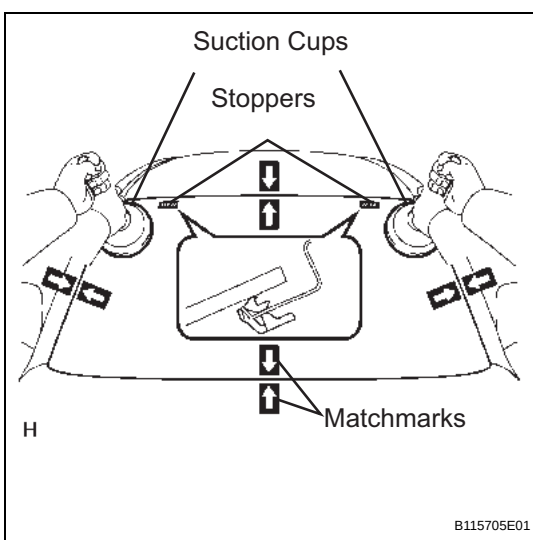
Usage time frame

Temperature	Usage Time Frame
35°C (95°F)	15 minutes
20°C (68°F)	1 hour 40 minutes
5°C (41°F)	8 hours

- (2) Load the sealer gun with the cartridge.
(3) Apply adhesive to the windshield glass as shown in the illustration.

Specification

Area	Measurement
a	8 mm (0.315 in.)
b	12 mm (0.472 in.)
c	3 mm (0.118 in.)
d	26.9 mm (1.059 in.)



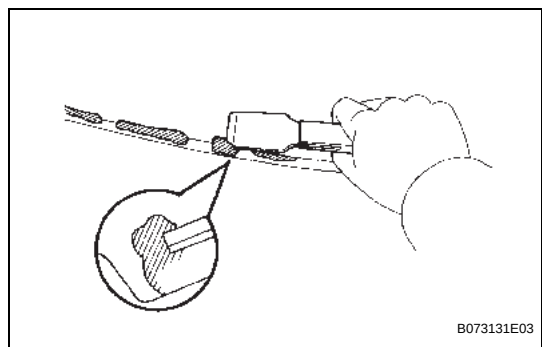
- (e) Install the windshield glass onto the vehicle body.

- (1) Using suction cups, position the windshield glass so that the matchmarks are aligned. Press it in gently along the rim

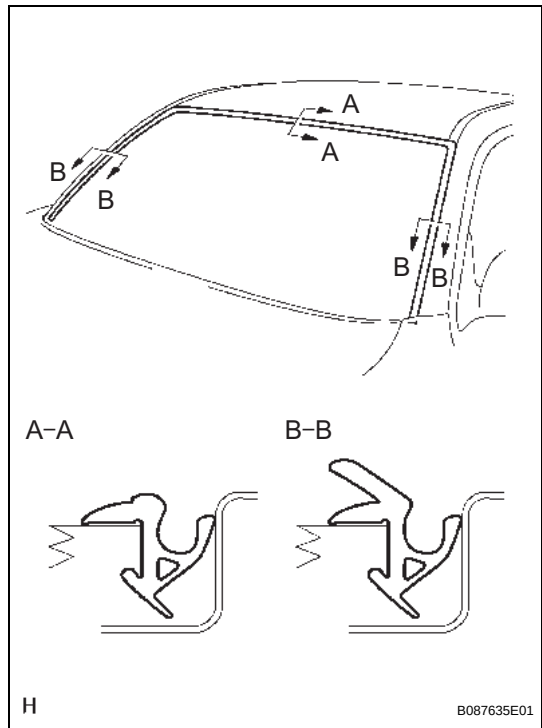
NOTICE:

- Allow the primer to dry for 3 minutes or more.
- Check that the stoppers are attached to the vehicle body correctly.
- Check that the vehicle body and windshield glass have a small gap between them.

- (2) Lightly press the front surface of the windshield glass to ensure that the windshield glass is securely fitted to the vehicle body.



- (3) Using a scraper, remove any excessive or protruding adhesive.
HINT:
Apply adhesive to the windshield glass rim.



7. INSTALL WINDSHIELD UPPER MOULDING OUTER

- (a) Using a brush or sponge, apply Primer G to the edge of the windshield glass and contact surface.

NOTICE:

- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover Primer G.
- Do not apply too much Primer G.

- (b) Install the windshield upper moulding outer before the adhesive dries.

NOTICE:

Do not drive vehicle for the amount of time indicated in the table below.

Minimum time

Temperature	Minimum time prior to driving vehicle
35°C (95°F)	1 hour 30 minutes
20°C (68°F)	5 hours
5°C (41°F)	24 hours

8. INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY (See page [WW-10](#))

9. INSTALL FRONT FENDER TO COWL SIDE SEAL LH (See page [WW-11](#))

10. INSTALL FRONT FENDER TO COWL SIDE SEAL RH
HINT:

Follow the same procedures as for the fender to cowl side seal LH.

11. INSTALL FRONT WIPER ARM LH (See page [WW-12](#))

12. INSTALL FRONT WIPER ARM RH (See page [WW-11](#))

13. INSTALL FRONT WIPER ARM HEAD CAP (See page [WW-12](#))

14. CHECK FOR LEAKAGE AND REPAIR

- (a) Conduct a leak test after the adhesive has completely hardened.
(b) Seal any leakage with auto glass sealer.

15. INSTALL VISOR HOLDER (for Regular Cab) (See page [IR-47](#))

16. INSTALL VISOR HOLDER (for Access Cab) (See page [IR-70](#))

17. **INSTALL VISOR HOLDER (for Double Cab) (See page [IR-22](#))**
18. **INSTALL VISOR ASSEMBLY LH (for Regular Cab) (See page [IR-48](#))**
19. **INSTALL VISOR ASSEMBLY LH (for Access Cab) (See page [IR-70](#))**
20. **INSTALL VISOR ASSEMBLY LH (for Double Cab) (See page [IR-22](#))**
21. **INSTALL VISOR ASSEMBLY RH (for Regular Cab)**
HINT:
Follow the same procedures as for the LH visor.
22. **REMOVE VISOR ASSEMBLY RH (for Access Cab)**
HINT:
Follow the same procedures as for the LH visor.
23. **REMOVE VISOR ASSEMBLY RH (for Double Cab)**
HINT:
Follow the same procedures as for the LH visor.
24. **INSTALL ASSIST GRIP PLUG (w/ Curtain Shield Airbag) (See page [IR-23](#))**
25. **INSTALL ASSIST GRIP SUB-ASSEMBLY (for Double Cab) (See page [IR-23](#))**
26. **INSTALL ROOF CONSOLE BOX ASSEMBLY (for Access Cab) (See page [IR-70](#))**
27. **INSTALL ROOF CONSOLE BOX ASSEMBLY (for Double Cab) (See page [IR-23](#))**
28. **INSTALL FRONT PILLAR GARNISH LH (for Regular Cab) (See page [IR-51](#))**
29. **INSTALL FRONT PILLAR GARNISH LH (for Access Cab) (See page [IR-74](#))**
30. **INSTALL FRONT PILLAR GARNISH LH (for Double Cab) (See page [IR-28](#))**
31. **INSTALL FRONT PILLAR GARNISH RH (for Regular Cab)**
HINT:
Follow the same procedures as for the front pillar garnish LH.
32. **REMOVE FRONT PILLAR GARNISH RH (for Access Cab)**
HINT:
Follow the same procedures as for the front pillar garnish LH.
33. **REMOVE FRONT PILLAR GARNISH RH (for Double Cab)**
HINT:
Follow the same procedures as for the front pillar garnish LH.

**34. INSTALL FRONT DOOR OPENING TRIM
WEATHERSTRIP LH**

(a) Install the front door opening trim weatherstrip.

**35. INSTALL FRONT DOOR OPENING TRIM
WEATHERSTRIP RH**

HINT:

Follow the same procedures as for the front opening trim weatherstrip LH.

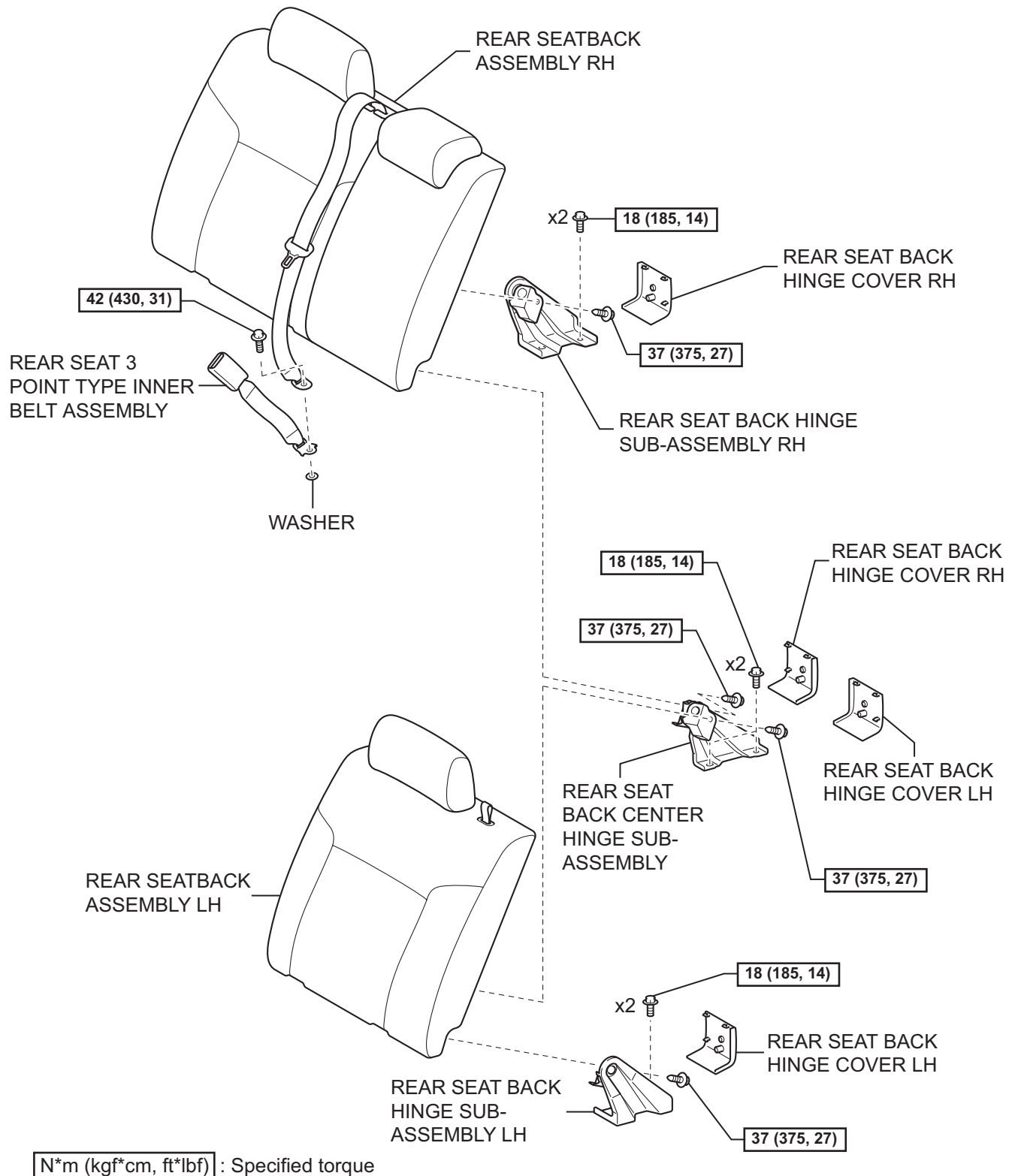
**36. INSTALL INNER REAR VIEW MIRROR ASSEMBLY
(See page [MI-5](#))****37. CONNECT CABLE TO NEGATIVE BATTERY
TERMINAL**

Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

BACK WINDOW GLASS

COMPONENTS

for Double Cab:

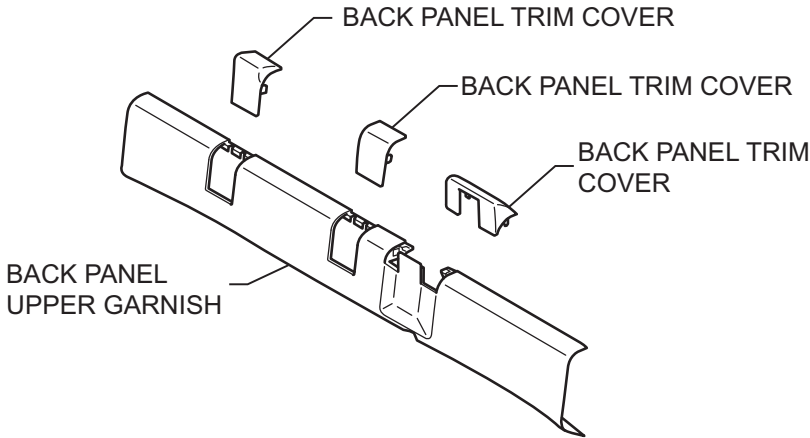


WS

WS

for Regular Cab:

for Bench Seat Type:



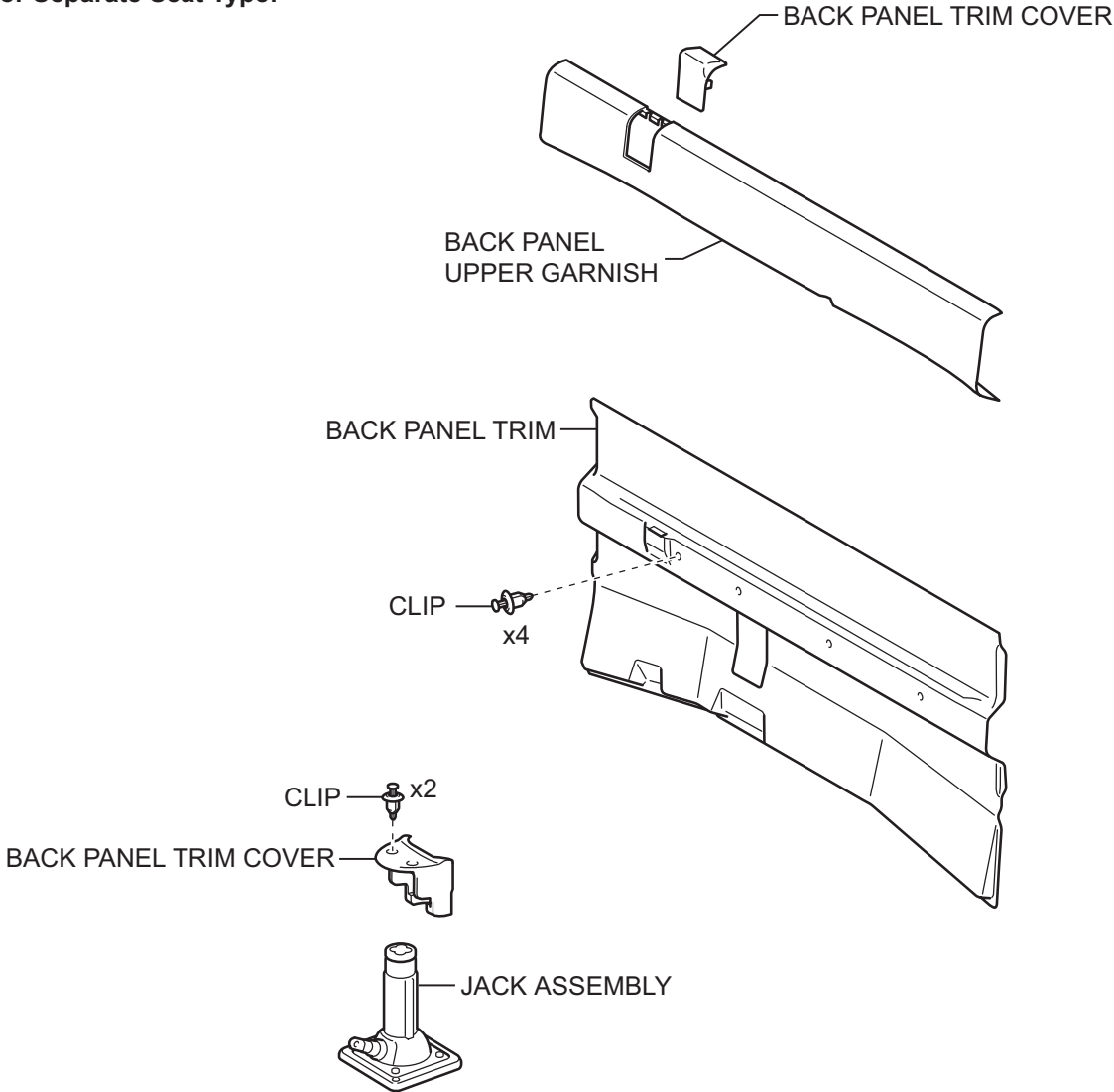
BACK PANEL TRIM COVER

BACK PANEL TRIM COVER

BACK PANEL TRIM COVER

BACK PANEL UPPER GARNISH

for Separate Seat Type:



BACK PANEL TRIM COVER

BACK PANEL UPPER GARNISH

BACK PANEL TRIM

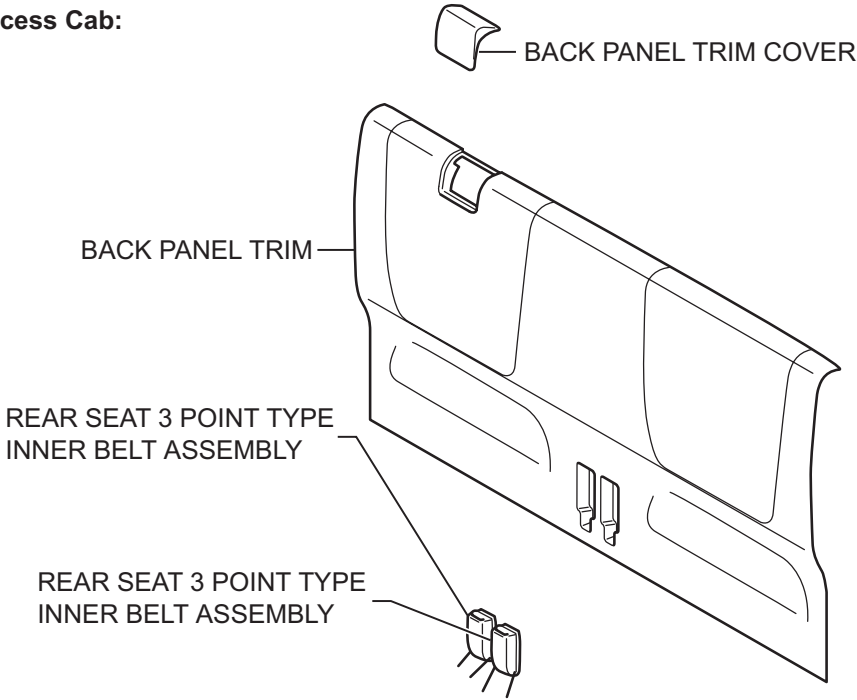
CLIP x4

CLIP x2

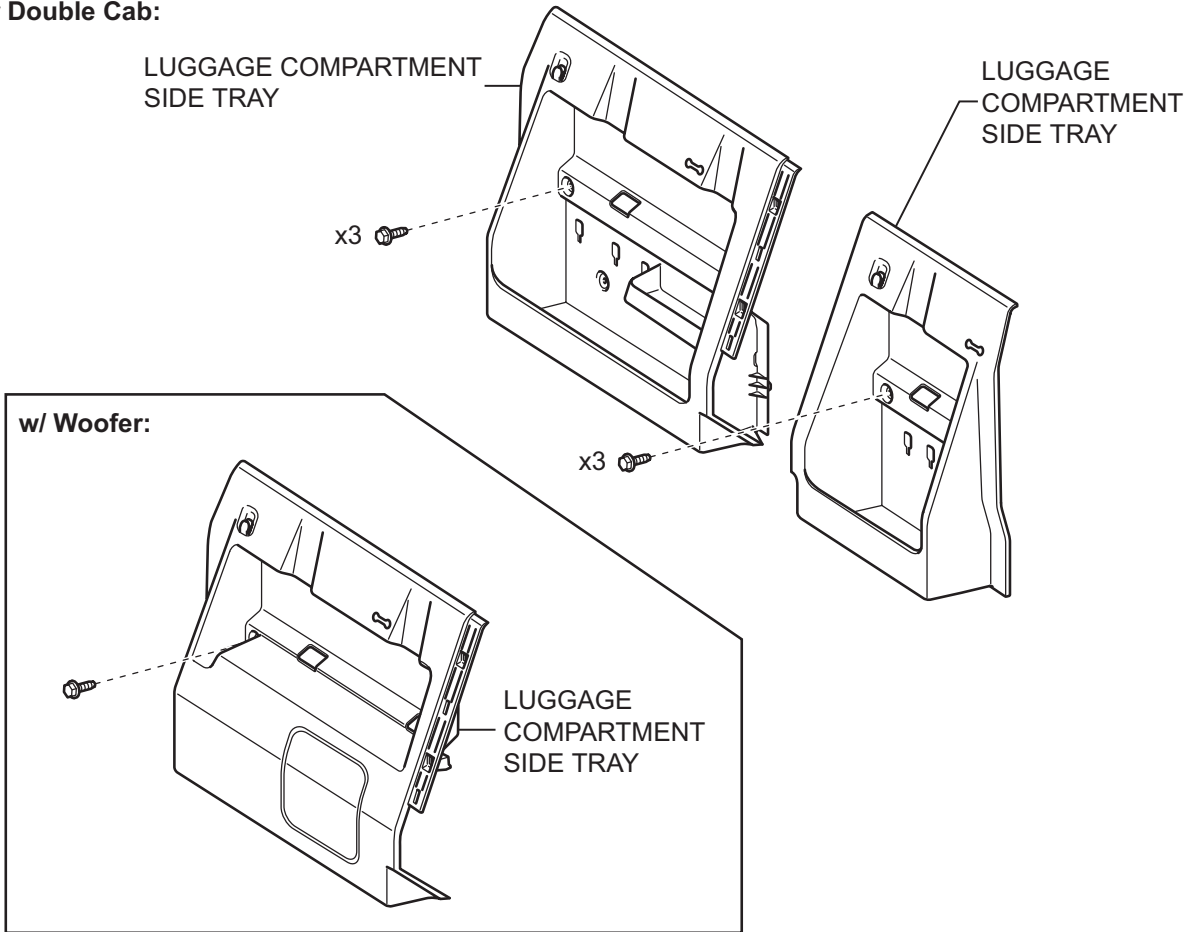
BACK PANEL TRIM COVER

JACK ASSEMBLY

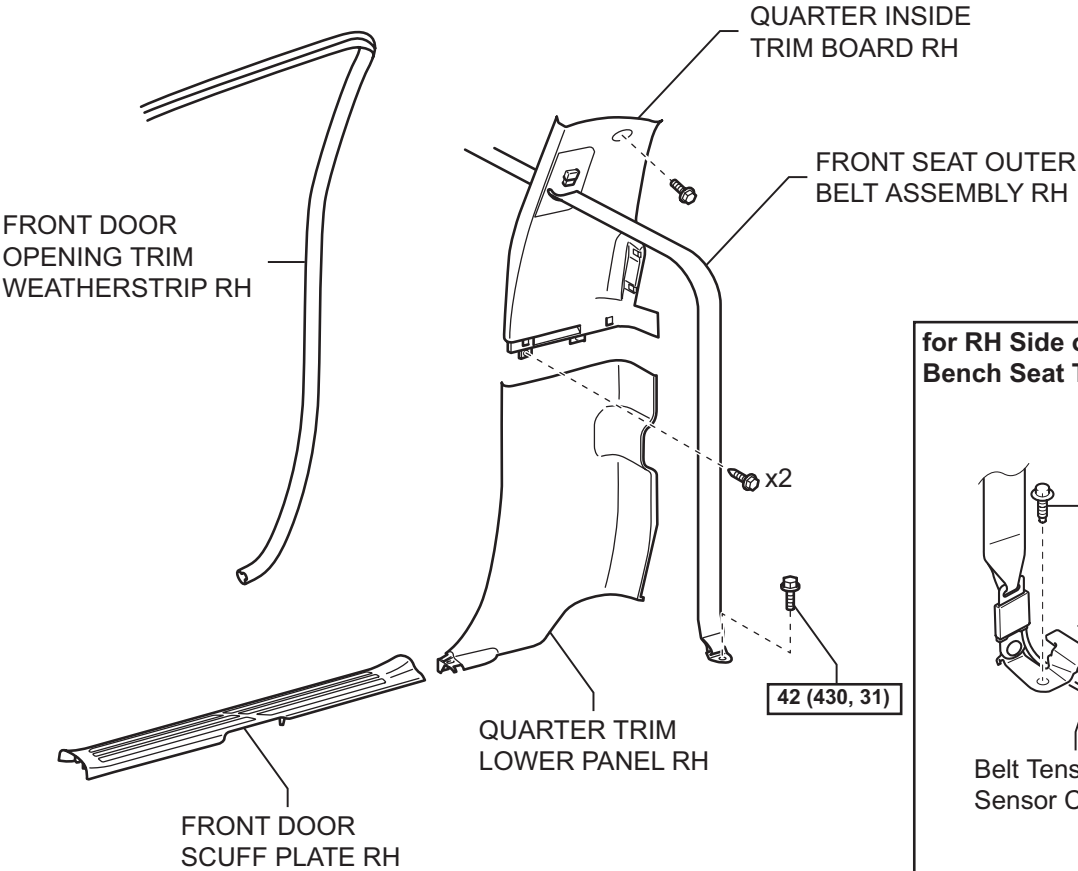
for Access Cab:



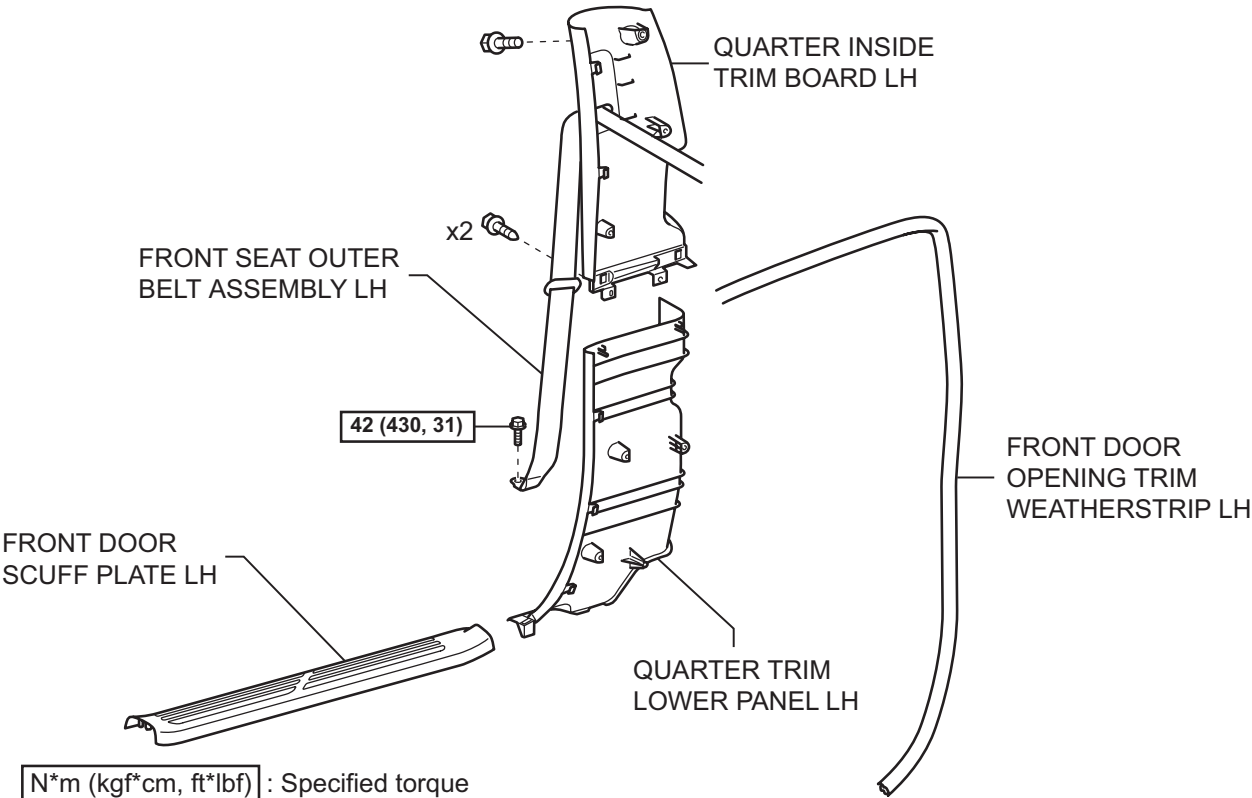
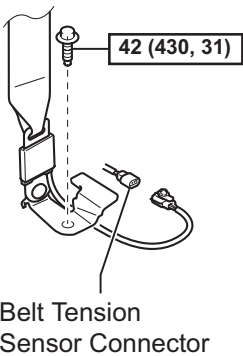
for Double Cab:



for Regular Cab:

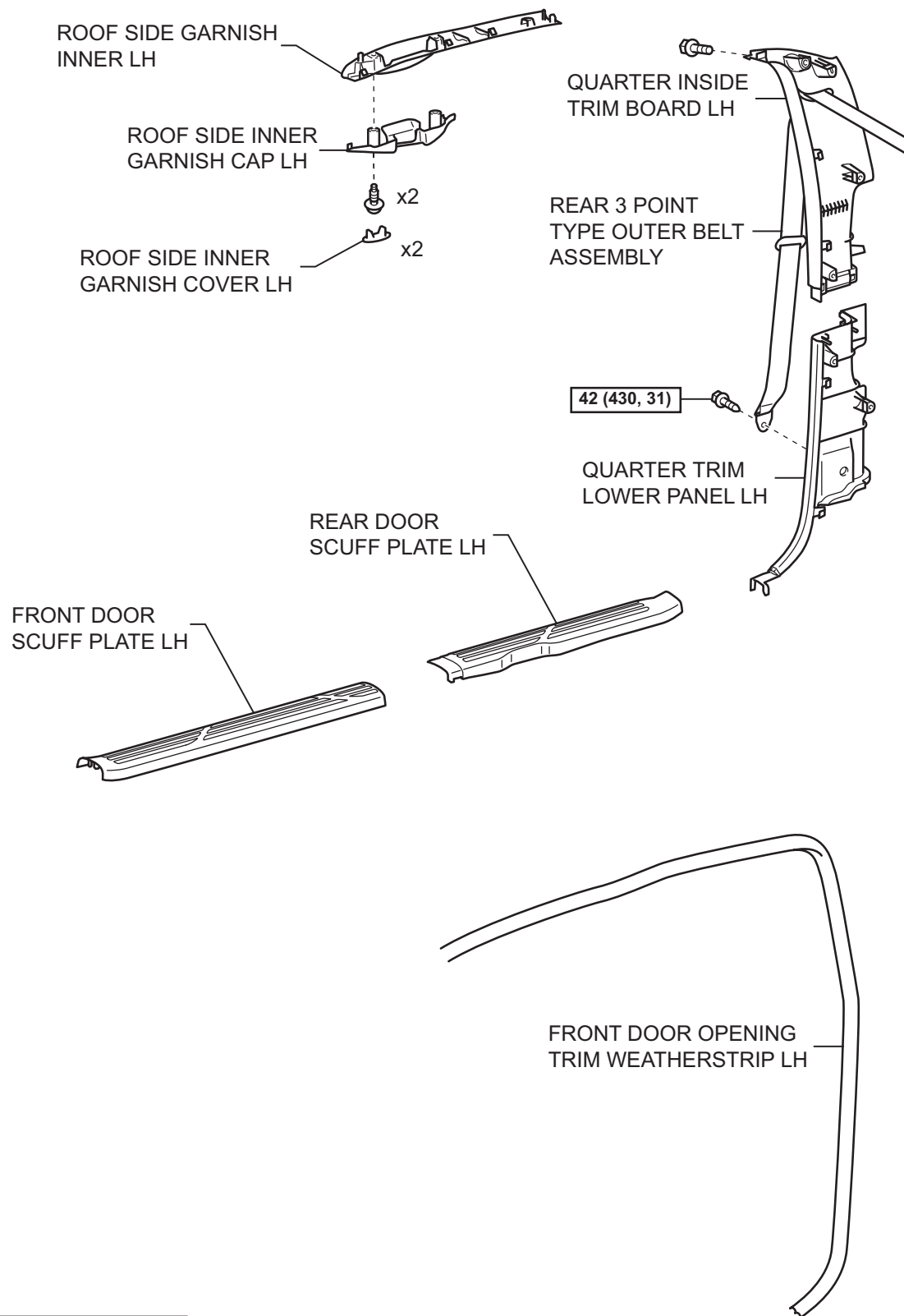


for RH Side on Bench Seat Type:

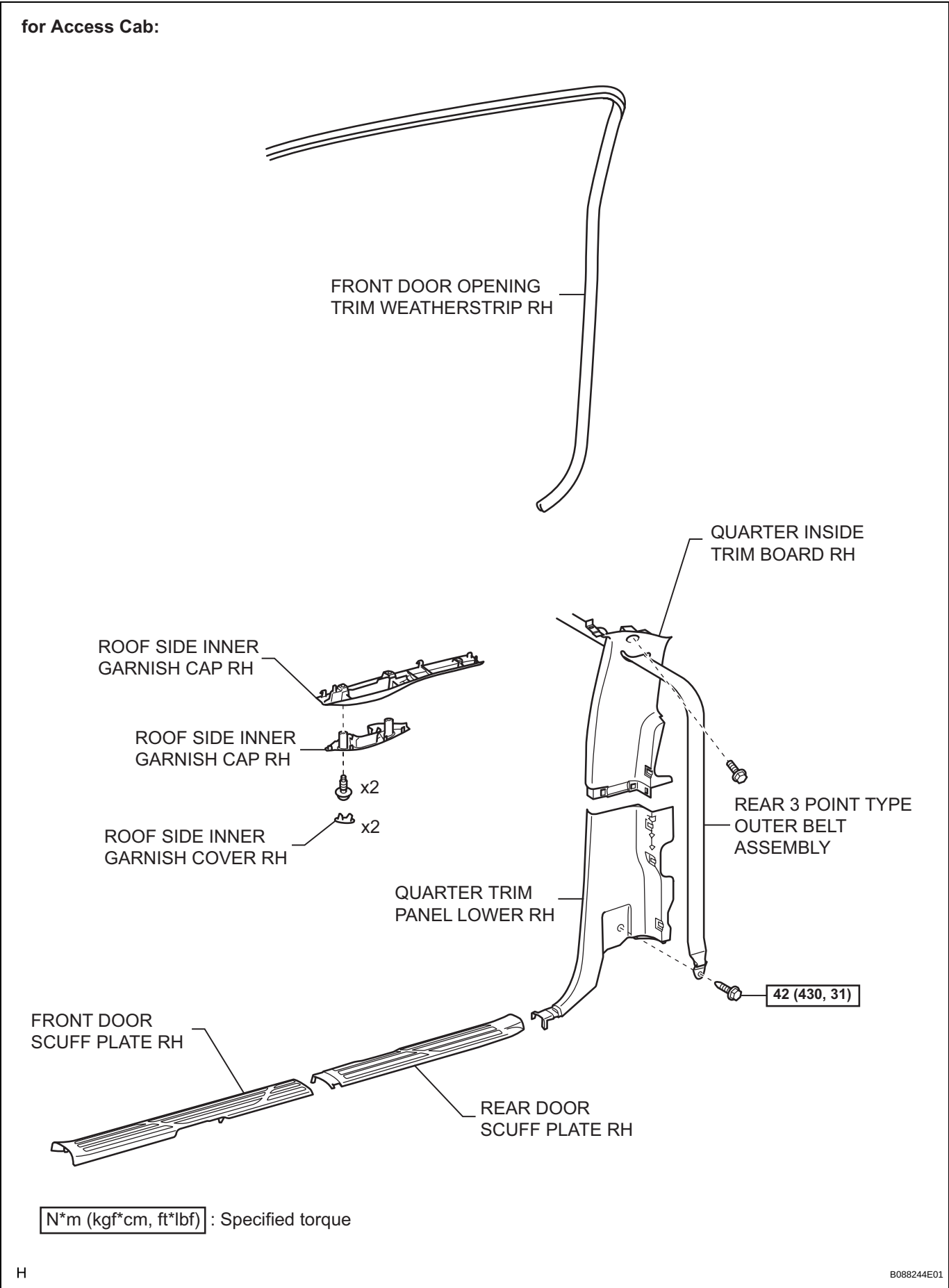


N*m (kgf*cm, ft*lb) : Specified torque

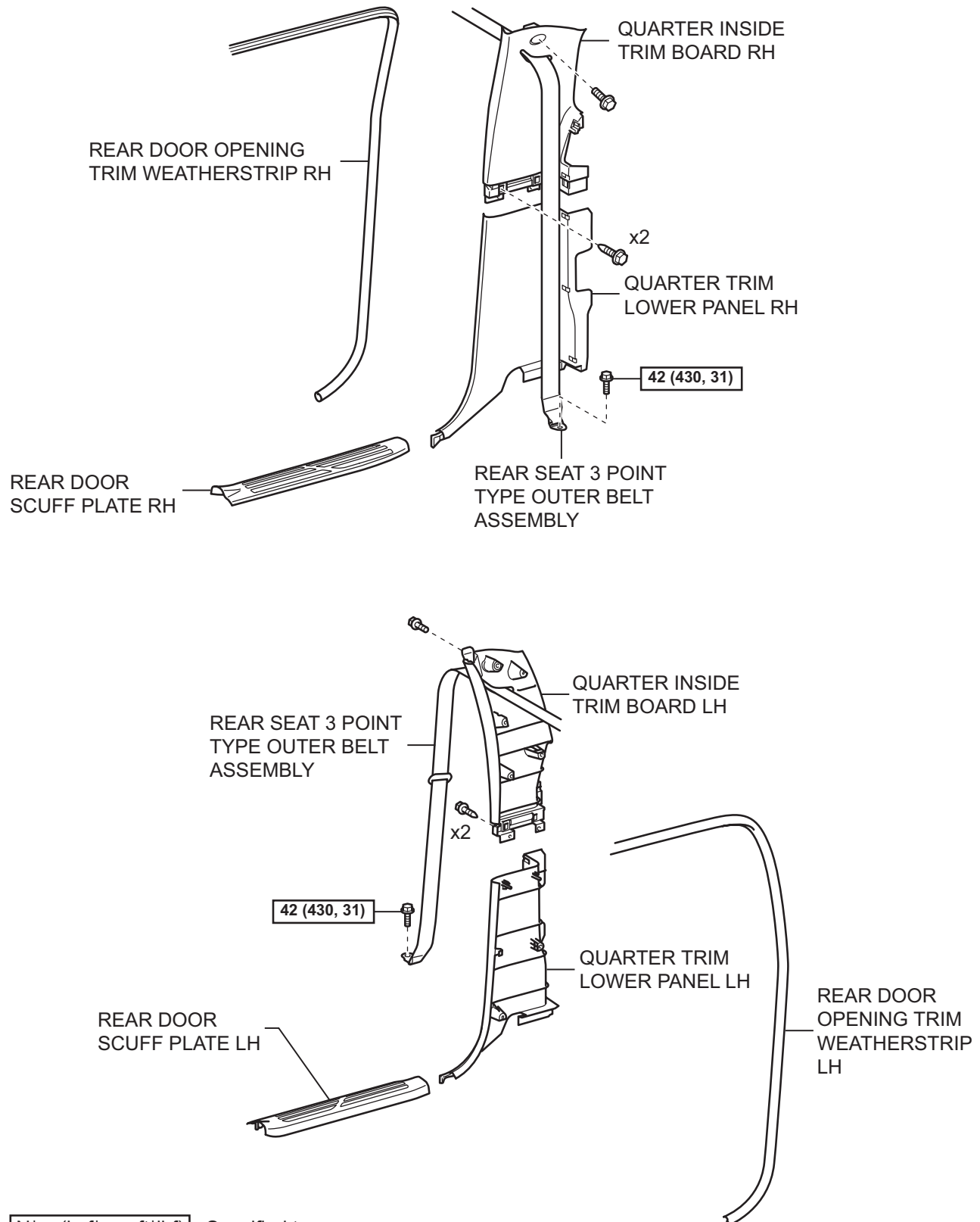
for Access Cab:



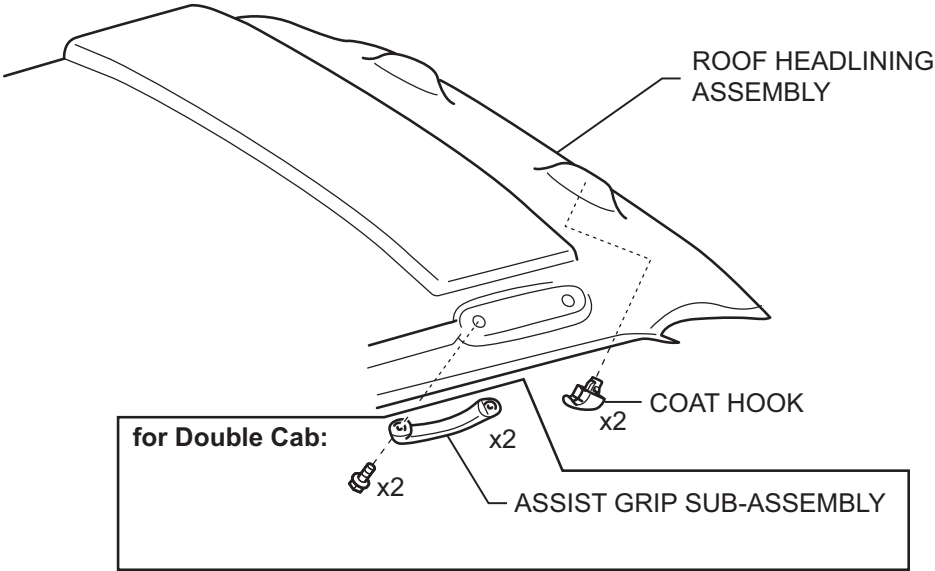
$\boxed{\text{N*m (kgf*cm, ft*lb)}} : \text{Specified torque}$



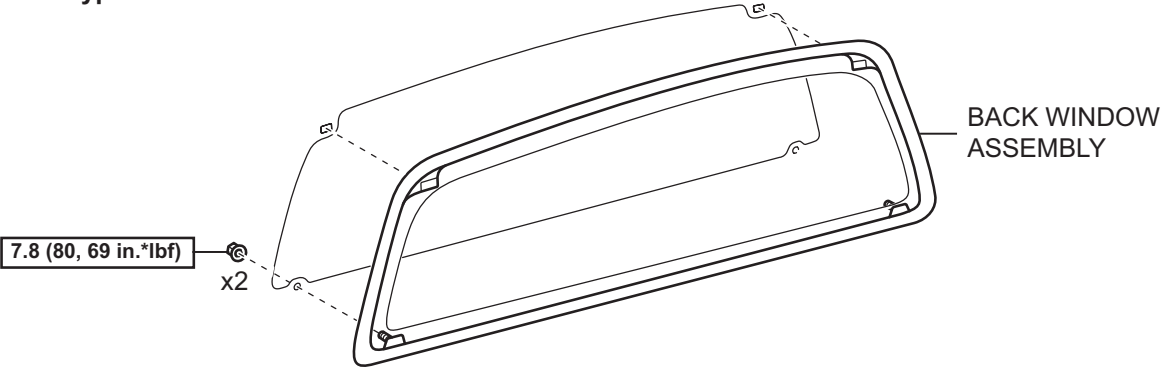
for Double Cab:



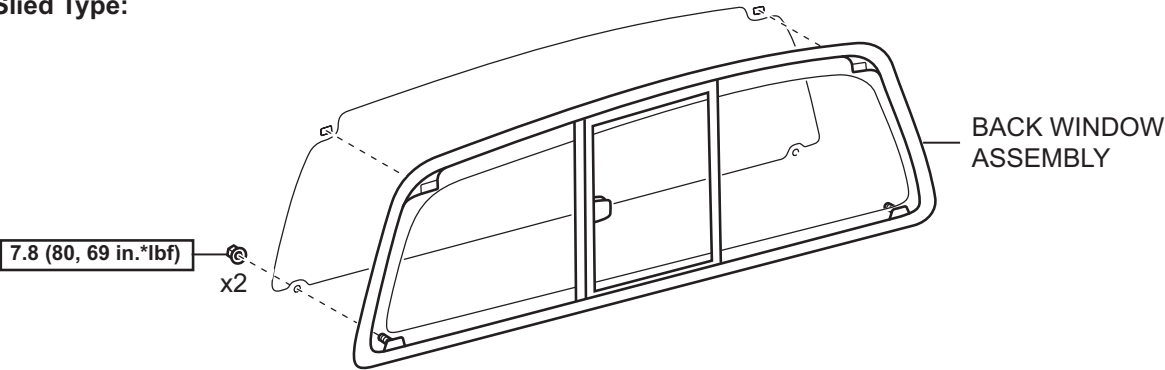
WS



for Fixed Type:



for Slided Type:



N*m (kgf*cm, ft*lbf) : Specified torque

REMOVAL

1. **REMOVE REAR SEAT BACK HINGE COVER (for Double Cab)**
 - (a) for RH Side:
 - (1) Remove the rear seat back hinge cover (see page [SE-82](#)).
 - (b) for LH Side:
 - (1) Remove the rear seat back hinge cover (see page [SE-71](#)).
2. **REMOVE REAR SEATBACK ASSEMBLY LH (for Double Cab) (See page [SE-71](#))**
3. **REMOVE REAR SEATBACK ASSEMBLY RH (for Double Cab) (See page [SE-82](#))**
4. **REMOVE REAR SEAT BACK HINGE SUB-ASSEMBLY LH (for Double Cab) (See page [SE-71](#))**
5. **REMOVE REAR SEAT BACK HINGE SUB-ASSEMBLY RH (for Double Cab) (See page [SE-82](#))**
6. **REMOVE FRONT DOOR SCUFF PLATE LH (for Regular Cab) (See page [IR-40](#))**
7. **REMOVE FRONT DOOR SCUFF PLATE LH (for Access Cab) (See page [IR-61](#))**
8. **REMOVE FRONT DOOR SCUFF PLATE RH (for Regular Cab)**

HINT:
Follow the same procedures as for the front door scuff plate LH.
9. **REMOVE FRONT DOOR SCUFF PLATE RH (for Access Cab)**

HINT:
Follow the same procedures as for the front door scuff plate LH.
10. **REMOVE REAR DOOR SCUFF PLATE LH (for Access Cab) (See page [IR-61](#))**
11. **REMOVE REAR DOOR SCUFF PLATE LH (for Double Cab) (See page [IR-13](#))**
12. **REMOVE REAR DOOR SCUFF PLATE RH (for Access Cab)**

HINT:
Follow the same procedures as for the rear door scuff plate LH.
13. **REMOVE REAR DOOR SCUFF PLATE RH (for Double Cab)**

HINT:
Follow the same procedures as for the rear door scuff plate LH.
14. **REMOVE ROOF SIDE INNER GARNISH CAP LH (for Access Cab) (See page [IR-62](#))**

WS

15. **REMOVE ROOF SIDE INNER GARNISH CAP RH (for Access Cab)**
HINT:
Follow the same procedures as for the roof side inner garnish LH.
16. **REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH (for Regular Cab) (See page [IR-40](#))**
17. **REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH (for Access Cab) (See page [IR-62](#))**
18. **REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP RH (for Regular Cab)**
HINT:
Follow the same procedures as for the front door opening trim weatherstrip LH.
19. **REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP RH (for Access Cab)**
HINT:
Follow the same procedures as for the front door opening trim weatherstrip LH.
20. **REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH (for Double Cab) (See page [IR-13](#))**
21. **REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP RH (for Double Cab)**
HINT:
Follow the same procedures as for the rear door opening trim weatherstrip LH.
22. **REMOVE BACK PANEL TRIM COVER (for Regular Cab) (See page [IR-42](#))**
23. **REMOVE BACK PANEL TRIM COVER (for Access Cab) (See page [IR-64](#))**
24. **REMOVE BACK PANEL TRIM COVER (for Regular Cab on Bench Seat Type) (See page [IR-42](#))**
25. **REMOVE BACK PANEL UPPER GARNISH (for Regular Cab) (See page [IR-43](#))**
26. **REMOVE JACK ASSEMBLY (for Regular Cab on Separate Seat Type)**
27. **REMOVE BACK PANEL TRIM COVER (for Regular Cab on Separate Seat Type) (See page [IR-43](#))**
28. **REMOVE BACK PANEL TRIM (for Regular Cab on Separate Seat Type) (See page [IR-43](#))**
29. **REMOVE BACK PANEL TRIM (for Access Cab on Separate Seat Type) (See page [IR-64](#))**
30. **REMOVE LUGGAGE COMPARTMENT SIDE TRAY (for Double Cab) (See page [IR-16](#))**

31. REMOVE REAR SEAT BACK CENTER HINGE SUB-ASSEMBLY (for Double Cab) (See page [SE-71](#))
32. REMOVE LUGGAGE COMPARTMENT SIDE TRAY (for Double Cab) (See page [IR-16](#))
33. REMOVE QUARTER TRIM LOWER PANEL LH (for Regular Cab) (See page [IR-43](#))
34. REMOVE QUARTER TRIM LOWER PANEL LH (for Access Cab) (See page [IR-65](#))
35. REMOVE QUARTER TRIM LOWER PANEL LH (for Double Cab) (See page [IR-17](#))
36. REMOVE QUARTER TRIM LOWER PANEL RH (for Regular Cab)
HINT:
Follow the same procedures as for the quarter trim panel lower LH.
37. REMOVE QUARTER TRIM LOWER PANEL RH (for Access Cab)
HINT:
Follow the same procedures as for the quarter trim panel lower LH.
38. REMOVE QUARTER TRIM LOWER PANEL RH (for Double Cab)
HINT:
Follow the same procedures as for the quarter trim panel lower LH.
39. REMOVE ROOF SIDE INNER GARNISH LH (for Access Cab) (See page [IR-65](#))
40. REMOVE ROOF SIDE INNER GARNISH RH (for Access Cab)
HINT:
Follow the same procedures as for the roof side garnish inner LH.
41. REMOVE QUARTER INSIDE TRIM BOARD LH (for Regular Cab) (See page [IR-44](#))
42. REMOVE QUARTER INSIDE TRIM BOARD LH (for Access Cab) (See page [IR-65](#))
43. REMOVE QUARTER INSIDE TRIM BOARD LH (for Double Cab) (See page [IR-17](#))
44. REMOVE QUARTER INSIDE TRIM BOARD RH (for Regular Cab)
HINT:
Follow the same procedures as for the quarter inside trim board LH.
45. REMOVE QUARTER INSIDE TRIM BOARD RH (for Access Cab)
HINT:
Follow the same procedures as for the quarter inside trim board LH.

46. REMOVE QUARTER INSIDE TRIM BOARD RH (for Double Cab)

HINT:

Follow the same procedures as for the quarter inside trim board LH.

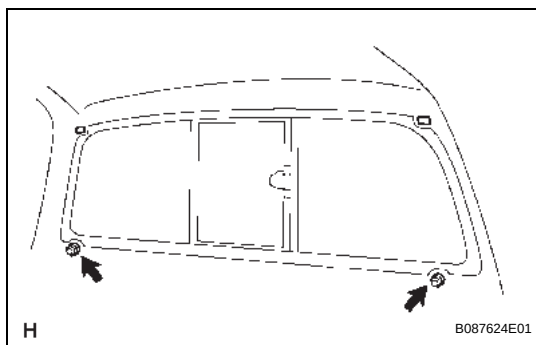
47. REMOVE COAT HOOK (for Regular Cab) (See page IR-45)

48. REMOVE COAT HOOK (for Access Cab) (See page IR-67)

49. REMOVE COAT HOOK (for Double Cab) (See page IR-20)

50. REMOVE BACK WINDOW ASSEMBLY

(a) Remove the 2 nuts.

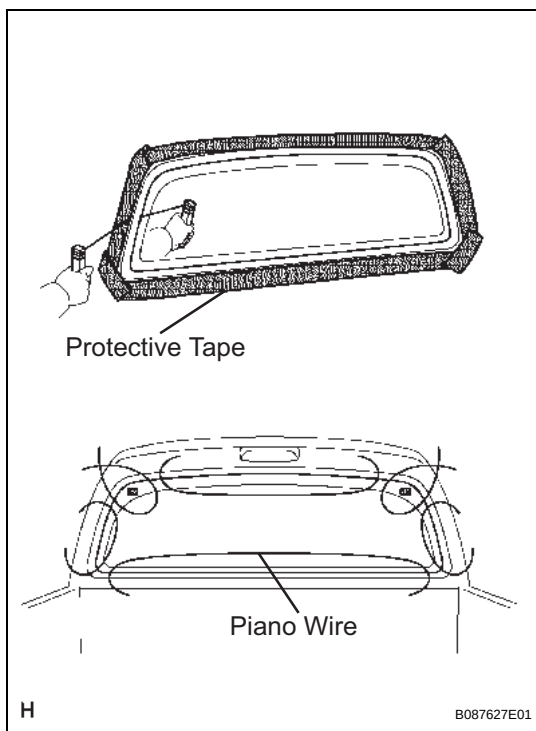


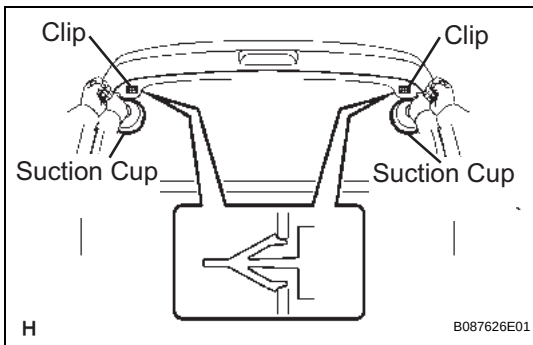
- (b) Apply protective tape to the outer circumference of the back window, as shown in the illustration.
- (c) From the interior, insert piano wires between the vehicle body and back window, as shown in the illustration.
- (d) Tie objects that can serve as handles (for example, wooden blocks) to all wire ends.

NOTICE:

When separating the back window from the vehicle, be careful not to damage the vehicle's paint or exterior/interior ornaments.

- (e) Cut through the adhesive by pulling the piano wire around the back window.

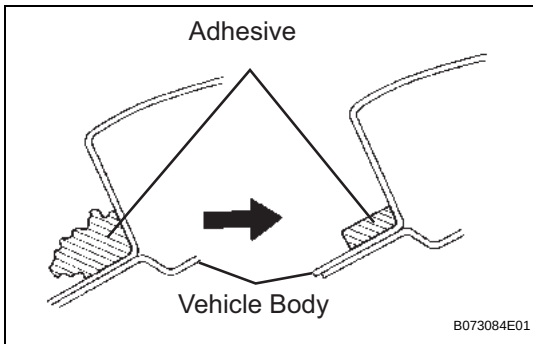




- (f) Disengage the 2 clips.
- (g) Using suction cups, remove the back window.

NOTICE:

Leave as much adhesive on the vehicle body as possible when removing the back window.

**INSTALLATION****1. CLEAN VEHICLE BODY**

- (a) Clean and shape the contact surface of the vehicle body.
- (1) Using a knife, cut away any rough adhesive on the contact surface of the vehicle body to ensure the appropriate surface shape.

NOTICE:

Be careful not to damage the vehicle body.

HINT:

Leave as much adhesive on the vehicle body as possible.

- (2) Clean the contact surface of the vehicle body with a shop rag saturated with cleaner.

HINT:

Even if all the adhesive has been removed, clean the vehicle body.

2. INSTALL BACK WINDOW ASSEMBLY

- (a) Position the windshield glass.
- (1) Using suction cups, place the back window in the correct position.
- (2) Check that the whole contact surface of the back window rim is perfectly even.
- (3) Place matchmarks over the back window and vehicle body.

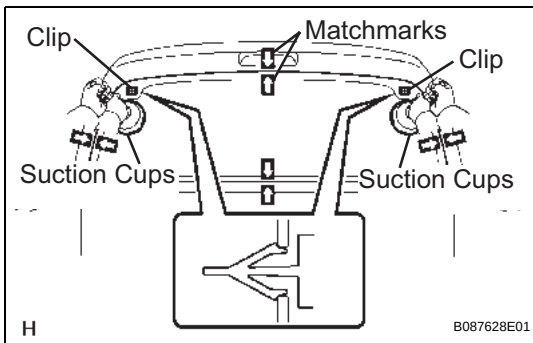
NOTICE:

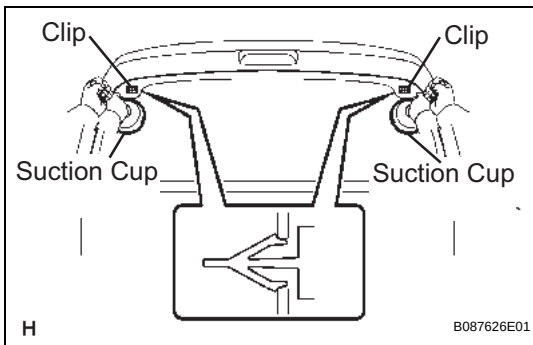
Check that the stoppers are attached to the vehicle body correctly.

HINT:

When reusing the back window, check and correct the matchmark positions.

- (4) Using suction cups, remove the back window.

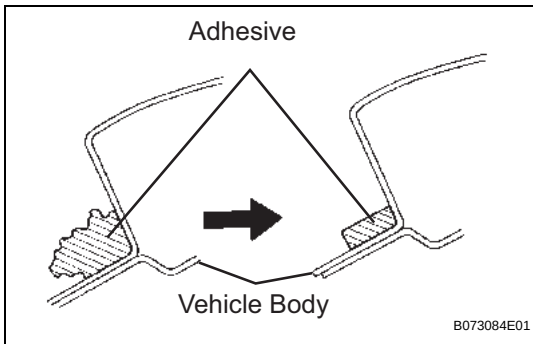




- (f) Disengage the 2 clips.
- (g) Using suction cups, remove the back window.

NOTICE:

Leave as much adhesive on the vehicle body as possible when removing the back window.

**INSTALLATION****1. CLEAN VEHICLE BODY**

- (a) Clean and shape the contact surface of the vehicle body.
 - (1) Using a knife, cut away any rough adhesive on the contact surface of the vehicle body to ensure the appropriate surface shape.

NOTICE:

Be careful not to damage the vehicle body.

HINT:

Leave as much adhesive on the vehicle body as possible.

- (2) Clean the contact surface of the vehicle body with a shop rag saturated with cleaner.

HINT:

Even if all the adhesive has been removed, clean the vehicle body.

2. INSTALL BACK WINDOW ASSEMBLY

- (a) Position the windshield glass.
 - (1) Using suction cups, place the back window in the correct position.
 - (2) Check that the whole contact surface of the back window rim is perfectly even.
 - (3) Place matchmarks over the back window and vehicle body.

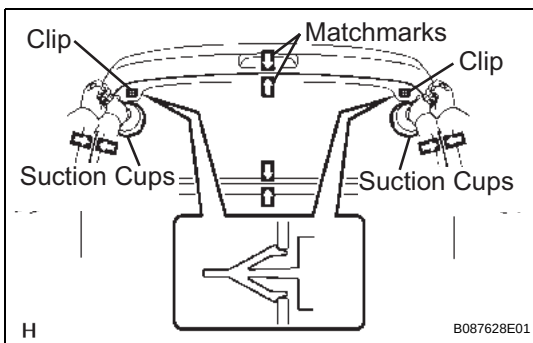
NOTICE:

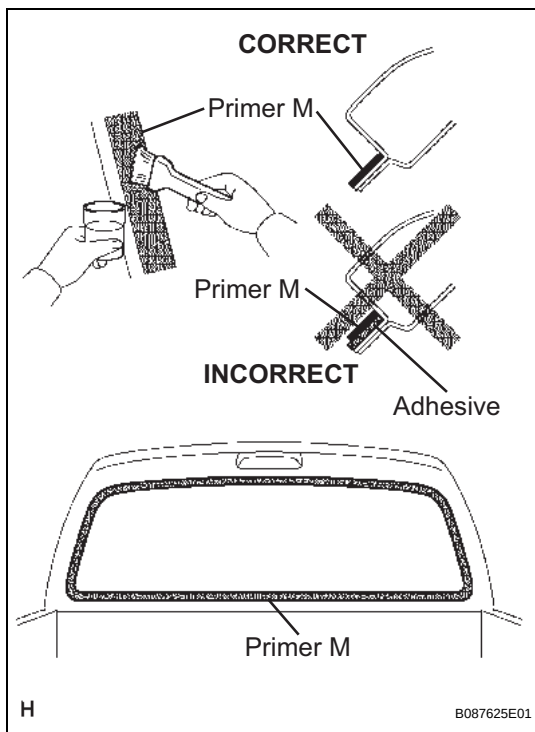
Check that the stoppers are attached to the vehicle body correctly.

HINT:

When reusing the back window, check and correct the matchmark positions.

- (4) Using suction cups, remove the back window.

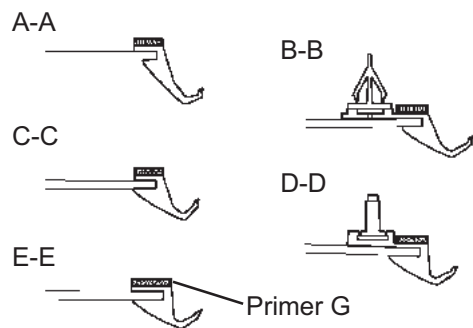
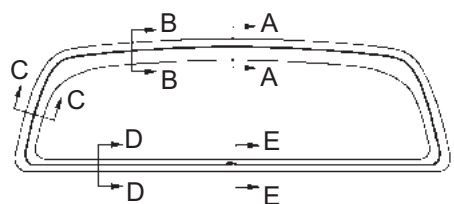
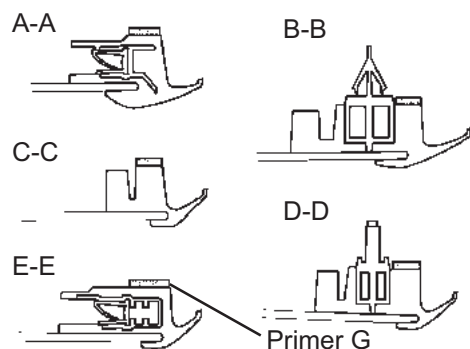
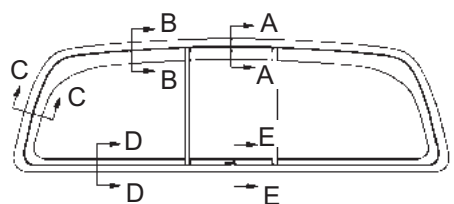




- (b) Using a brush, apply Primer M to the exposed part of the vehicle body.

NOTICE:

- Allow the primer to dry for 3 minutes or more.
- Do not apply Primer M to the adhesive.
- Throw away any leftover Primer M.
- Do not apply too much Primer M.

Fixed Type:**Slide Type:**

B115231E01

- (c) Using a brush or sponge, apply Primer G to the edge of the back window and contact surface.

NOTICE:

- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover Primer G.
- Do not apply too much Primer G.

HINT:

If Primer G is applied to any areas other than that which is specified, wipe off the primer with a clean shop rag before it dries.

WS

WS

Fixed Type:

Slide Type:

B115232E01

(d) Apply adhesive.

Adhesive:

Part No. 08850-00801 or equivalent

- (1) Cut off the tip of the cartridge nozzle, as shown in the illustration.

HINT:

After cutting off the tip, use all adhesive within the time indicated in the table below.

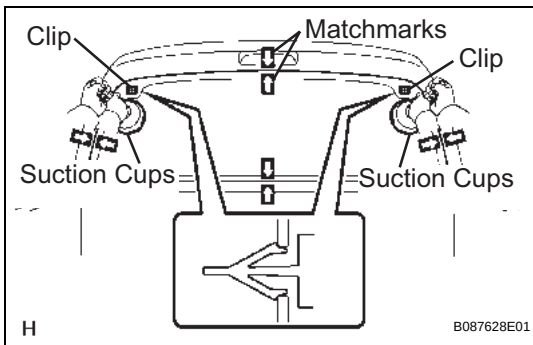
Usage time frame

Temperature	Usage Time Frame
35°C (95°F)	15 minutes
20°C (68°F)	1 hour 40 minutes
5°C (41°F)	8 hours

- (2) Load the sealer gun with the cartridge.
(3) Apply adhesive to the back window, as shown in the illustration.

Specification

Area	Measurement
a	6 mm (0.236 in.) or 8 mm (0.315 in.)
b	8 mm (0.315 in.) or 12 mm (0.472 in.)



- (e) Install the windshield glass onto the vehicle body.
- (1) Using suction cups, position the back window so that the matchmarks are aligned. Press it in gently along the rim.

NOTICE:

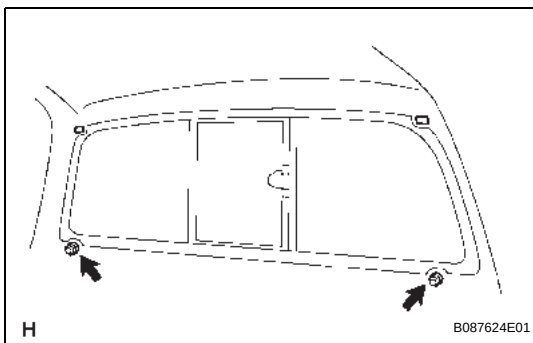
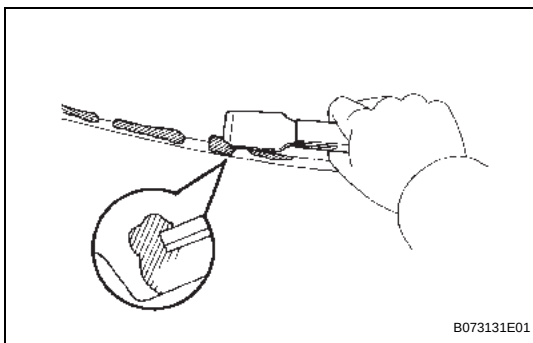
- Allow the primer to dry for 3 minutes or more.
- Check that the stoppers are attached to the vehicle body correctly.
- Check that the vehicle body and windshield glass have a small gap between them.

- (2) Lightly press the front surface of the windshield glass to ensure that the windshield glass is securely fitted to the vehicle body.

- (3) Using a scraper, remove any excessive or protruding adhesive.

HINT:

Apply adhesive onto the windshield glass rim.



- (f) Tighten the 2 nuts.

Torque: 7.8 N*m (80 kgf*cm, 69 in.*lbf)

3. CHECK FOR LEAKAGE AND REPAIR

- (a) Conduct a leak test after the adhesive has completely hardened.
- (b) Seal any leakage with auto glass sealer.

4. INSTALL COAT HOOK (for Regular Cab) (See page [IR-47](#))**5. INSTALL COAT HOOK (for Access Cab) (See page [IR-69](#))****6. INSTALL COAT HOOK (for Double Cab) (See page [IR-22](#))****7. INSTALL QUARTER INSIDE TRIM BOARD LH (for Regular Cab) (See page [IR-48](#))****8. INSTALL QUARTER INSIDE TRIM BOARD LH (for Access Cab) (See page [IR-71](#))****9. INSTALL QUARTER INSIDE TRIM BOARD LH (for Double Cab) (See page [IR-24](#))****10. INSTALL QUARTER INSIDE TRIM BOARD RH (for Regular Cab)****HINT:**

Follow the same procedures as for the quarter inside trim board LH.

11. INSTALL QUARTER INSIDE TRIM BOARD RH (for Access Cab)

HINT:

Follow the same procedures as for the quarter inside trim board LH.

12. INSTALL QUARTER INSIDE TRIM BOARD RH (for Double Cab)

HINT:

Follow the same procedures as for the quarter inside trim board LH.

13. INSTALL ROOF SIDE INNER GARNISH LH (for Access Cab) (See page [IR-71](#))**14. INSTALL ROOF SIDE INNER GARNISH RH (for Access Cab)**

HINT:

Follow the same procedures as for the roof side garnish inner LH.

15. INSTALL QUARTER TRIM LOWER PANEL LH (for Regular Cab) (See page [IR-49](#))**16. INSTALL QUARTER TRIM LOWER PANEL LH (for Access Cab) (See page [IR-72](#))****17. INSTALL QUARTER TRIM LOWER PANEL LH (for Double Cab) (See page [IR-25](#))****18. INSTALL QUARTER TRIM LOWER PANEL RH (for Regular Cab)**

HINT:

Follow the same procedures as for the quarter inside trim board LH.

19. INSTALL QUARTER TRIM LOWER PANEL RH (for Access Cab)

HINT:

Follow the same procedures as for the quarter inside trim board LH.

20. INSTALL QUARTER TRIM LOWER PANEL RH (for Double Cab)

HINT:

Follow the same procedures as for the quarter inside trim board LH.

21. INSTALL LUGGAGE COMPARTMENT SIDE TRAY (for Double Cab) (See page [IR-25](#))**22. INSTALL REAR SEAT BACK CENTER HINGE SUB-ASSEMBLY (for Double Cab) (See page [SE-77](#))****23. INSTALL LUGGAGE COMPARTMENT SIDE TRAY (for Double Cab) (See page [IR-26](#))****24. INSTALL BACK PANEL TRIM (for Regular Cab on Separate Seat Type) (See page [IR-49](#))****25. REMOVE BACK PANEL TRIM (for Access Cab on Separate Seat Type) (See page [IR-72](#))**

26. **INSTALL BACK PANEL TRIM COVER** (for Regular Cab on Separate Seat Type) (See page [IR-50](#))
27. **INSTALL JACK ASSEMBLY** (for Regular Cab on Separate Seat Type)
28. **INSTALL BACK PANEL UPPER GARNISH** (for Regular Cab) (See page [IR-50](#))
29. **INSTALL BACK PANEL TRIM COVER** (for Regular Cab on Bench Seat Type) (See page [IR-50](#))
30. **INSTALL BACK PANEL TRIM COVER** (for Regular Cab) (See page [IR-50](#))
31. **INSTALL BACK PANEL TRIM COVER** (for Access Cab) (See page [IR-73](#))
32. **INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP LH** (for Double Cab) (See page [IR-28](#))
33. **INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP RH** (for Double Cab)
HINT:
Follow the same procedures as for the rear door opening trim weatherstrip LH.
34. **INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP LH** (for Regular Cab) (See page [IR-52](#))
35. **INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP LH** (for Access Cab) (See page [IR-74](#))
36. **INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP RH** (for Regular Cab)
HINT:
Follow the same procedures as for the front door opening trim weatherstrip LH.
37. **INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP RH** (for Access Cab)
HINT:
Follow the same procedures as for the front door opening trim weatherstrip LH.
38. **INSTALL ROOF SIDE INNER GARNISH CAP LH** (for Access Cab) (See page [IR-75](#))
39. **INSTALL ROOF SIDE INNER GARNISH CAP RH** (for Access Cab)
HINT:
Follow the same procedures as for the roof side inner garnish LH.
40. **INSTALL REAR DOOR SCUFF PLATE LH** (for Access Cab) (See page [IR-75](#))
41. **INSTALL REAR DOOR SCUFF PLATE LH** (for Double Cab) (See page [IR-29](#))

42. INSTALL REAR DOOR SCUFF PLATE RH (for Access Cab)

HINT:

Follow the same procedures as for the rear door scuff plate LH.

43. INSTALL REAR DOOR SCUFF PLATE RH (for Double Cab)

HINT:

Follow the same procedures as for the rear door scuff plate LH.

44. INSTALL FRONT DOOR SCUFF PLATE LH (for Regular Cab) (See page [IR-52](#))**45. INSTALL FRONT DOOR SCUFF PLATE LH (for Access Cab) (See page [IR-75](#))****46. INSTALL FRONT DOOR SCUFF PLATE RH (for Regular Cab)**

HINT:

Follow the same procedures as for the front door scuff plate LH.

47. INSTALL FRONT DOOR SCUFF PLATE RH (for Access Cab)

HINT:

Follow the same procedures as for the front door scuff plate LH.

48. INSTALL REAR SEAT BACK HINGE SUB-ASSEMBLY LH (for Double Cab) (See page [SE-77](#))**49. INSTALL REAR SEAT BACK HINGE SUB-ASSEMBLY RH (for Double Cab) (See page [SE-90](#))****50. INSTALL REAR SEATBACK ASSEMBLY LH (for Double Cab) (See page [SE-77](#))****51. INSTALL REAR SEATBACK ASSEMBLY RH (for Double Cab) (See page [SE-90](#))****52. INSTALL REAR SEAT BACK HINGE COVER (for Double Cab)**

(a) for RH Side:

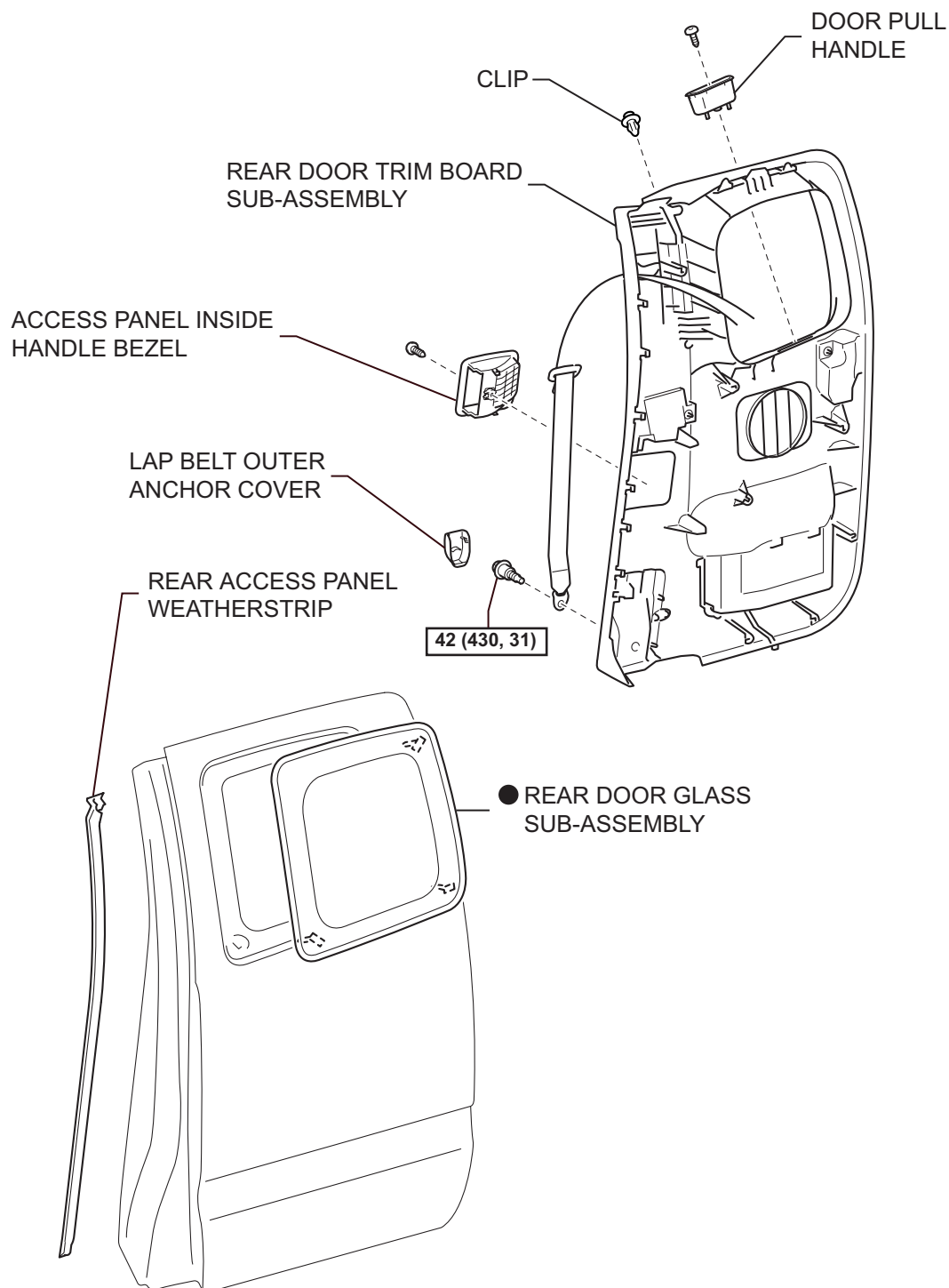
(1) Install the rear seat back hinge cover (see page [SE-90](#)).

(b) for LH Side:

(1) Install the rear seat back hinge cover (see page [SE-78](#)).

QUARTER WINDOW GLASS (for Access Cab)

COMPONENTS



WS

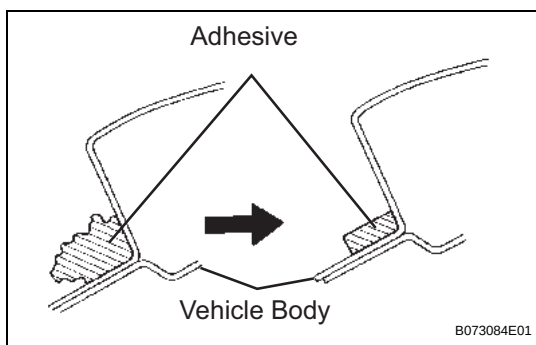
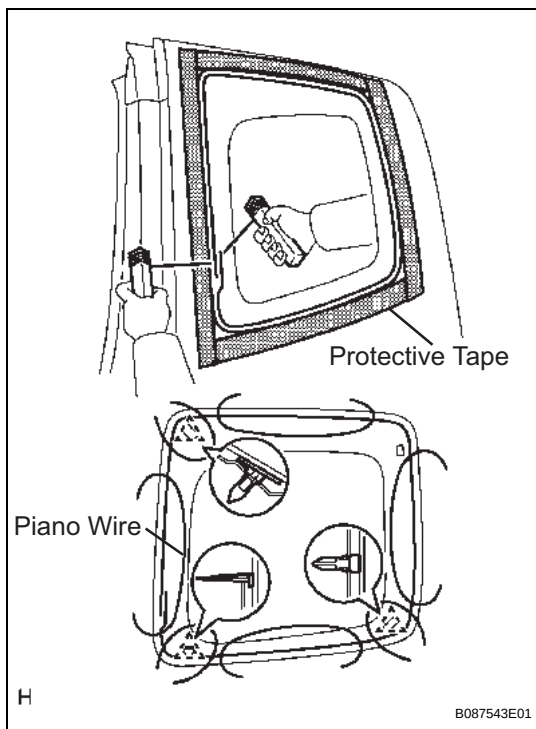
REMOVAL

1. REMOVE REAR ACCESS PANEL WEATHERSTRIP (See page ED-53)
2. REMOVE LAP BELT OUTER ANCHOR COVER (See page ED-53)
3. REMOVE REAR DOOR TRIM BOARD SUB-ASSEMBLY (See page ED-53)
4. REMOVE REAR DOOR GLASS SUB-ASSEMBLY
 - (a) Apply protective tape to the outer circumference of the quarter window, as shown in the illustration.
 - (b) From the interior, insert piano wires between the vehicle body and quarter window, as shown in the illustration.
 - (c) When separating the quarter window from the vehicle, be careful not to damage the vehicle's paint or exterior/interior ornaments.

NOTICE:

When separating the quarter window from the vehicle, be careful not to damage the vehicle's paint or exterior/interior ornaments.

- (d) Cut through the adhesive by pulling the piano wire around the quarter window.



INSTALLATION

1. CLEAN VEHICLE BODY
 - (a) Clean and shape the contact surface of the vehicle body.
 - (1) Using a knife, cut away any rough adhesive on the contact surface of the vehicle body to ensure the appropriate surface shape.

NOTICE:
Be careful not to damage the vehicle body.

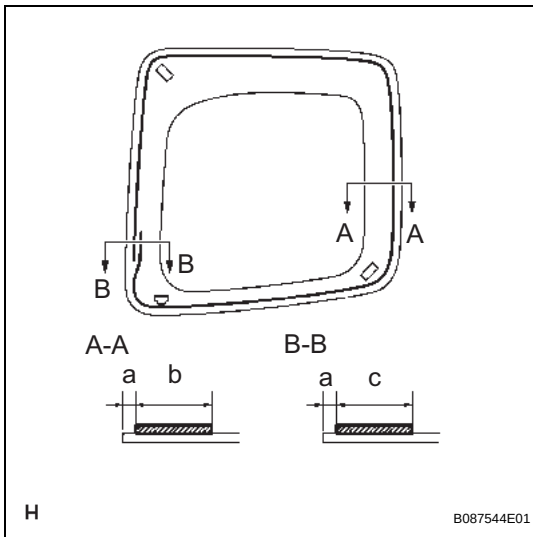
HINT:
 Leave as much adhesive on the vehicle body as possible.

 - (2) Clean the contact surface of the vehicle body with a shop rag saturated with cleaner.

HINT:
 Even if all the adhesive has been removed, clean the vehicle body.
2. INSTALL REAR DOOR GLASS SUB-ASSEMBLY LH
 - (a) Using a brush, apply Primer M to the exposed part of the vehicle body.

NOTICE:

 - Allow the primer to dry for 3 minutes or more.
 - Do not apply Primer M to the adhesive.



- **Throw away any leftover Primer M.**
- **Do not apply too much Primer M.**

- (b) Using a brush or sponge, apply Primer G to the edge of the quarter window and contact surface.

Specification

Area	Measurement
a	5 mm (0.197 in.)
b	20 mm (0.787 in.)
c	26 mm (1.023 in.)

NOTICE:

- **Allow the primer to dry for 3 minutes or more.**
- **Throw away any leftover Primer G.**
- **Do not apply too much Primer G.**

HINT:

If Primer G is applied to any areas other than that which is specified, wipe off the primer with a clean shop rag before it dries.

WS

- (c) Apply adhesive.

Adhesive:

Part No. 08850-00801 or equivalent

- (1) Cut off the tip of the cartridge nozzle, as shown in the illustration.

HINT:

After cutting off the tip, use all adhesive within the time indicated in the table bellow.

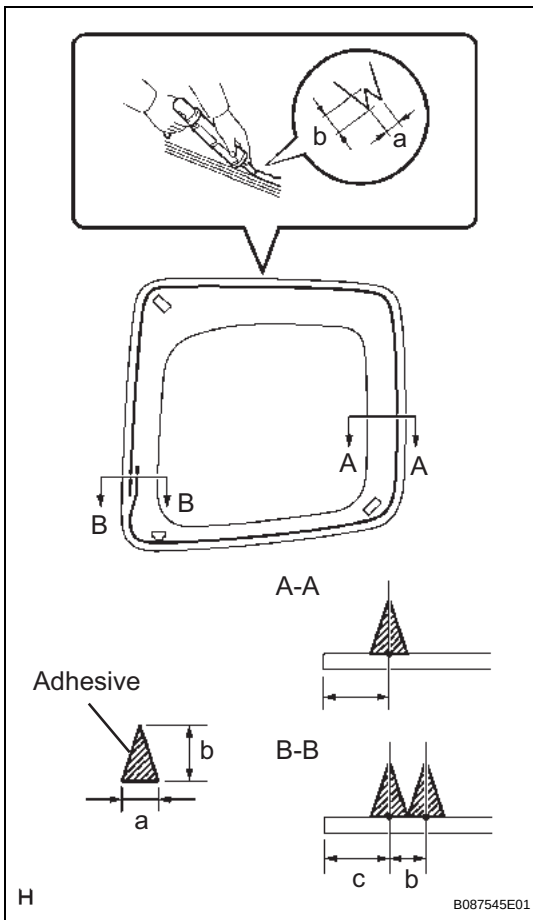
Usage time frame

Temperature	Usage Time Frame
35°C (95°F)	15 minutes
20°C (68°F)	1 hour 40 minutes
5°C (41°F)	8 hours

- (2) Load the sealer gun with the cartridge.
 (3) Apply adhesive to the quarter window as shown in the illustration.

Specification

Area	Measurement
a	8 mm (0.315 in.)
b	12 mm (0.472 in.)
c	13 mm (0.512 in.)



3. CHECK FOR LEAKAGE AND REPAIR

- (a) Conduct a leak test after the adhesive has completely hardened.
 (b) Seal any leakage with auto glass sealer.

4. INSTALL REAR DOOR TRIM BOARD SUB-ASSEMBLY (See page ED-63)

5. INSTALL LAP BELT OUTER ANCHOR COVER (See page ED-63)

6. INSTALL REAR ACCESS PANEL WEATHERSTRIP (See page ED-64)