

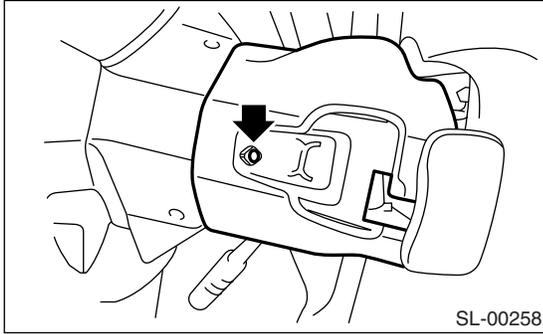
# Combination Switch (Wiper)

WIPER AND WASHER SYSTEMS

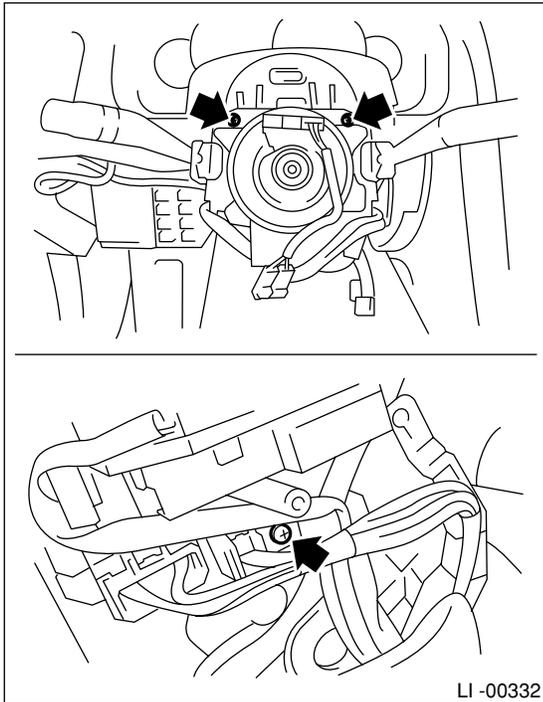
## 3. Combination Switch (Wiper)

### A: REMOVAL

- 1) Disconnect the ground cable from battery.
- 2) Remove the driver's airbag module. <Ref. to AB-16, REMOVAL, Driver's Airbag Module.>
- 3) Remove the steering wheel. <Ref. to PS-14, REMOVAL, Steering Wheel.>
- 4) Remove the screw to remove steering column cover (upper and lower).



- 5) Disconnect the connector from combination switch.
- 6) Remove the three screws, and pull out the combination base switch assembly toward you.



- 7) Remove the switch securing screw to remove combination switch.

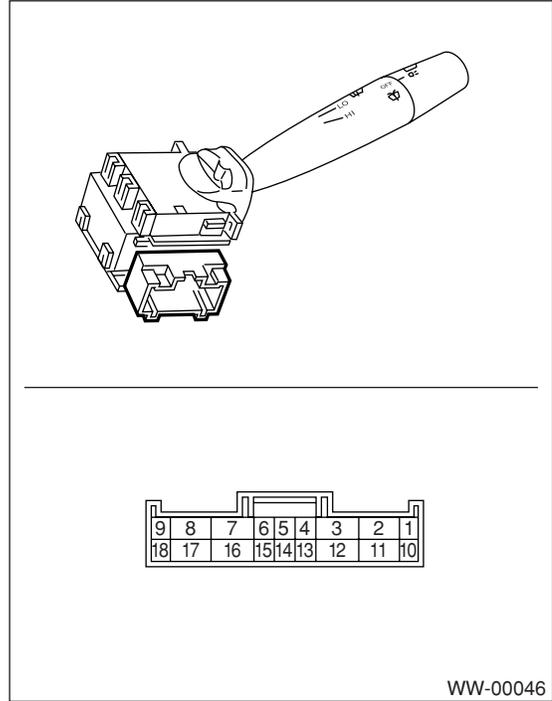
### B: INSTALLATION

Install in the reverse order of removal.

## C: INSPECTION

### 1. COMBINATION SWITCH

- 1) Inspect the continuity between each connector terminal.



	Switch position	Terminal No.	Standard
Front	OFF	7 and 16	Less than 1 Ω
	INT	7 and 16	Less than 1 Ω
	LO	7 and 17	Less than 1 Ω
	HI	8 and 17	Less than 1 Ω
	Washer ON	2 and 11	Less than 1 Ω
Rear	Washer ON	2 and 12	Less than 1 Ω
	OFF	—	More than 1 MΩ
	INT	2 and 13	Less than 1 Ω
	ON	2 and 10	Less than 1 Ω
	Washer ON	2 and 12 12 and 10 2 and 10	Less than 1 Ω

- 2) If continuity is not as specified, replace the switch.

## 2. FRONT WIPER

### 1) Check with Subaru Select Monitor

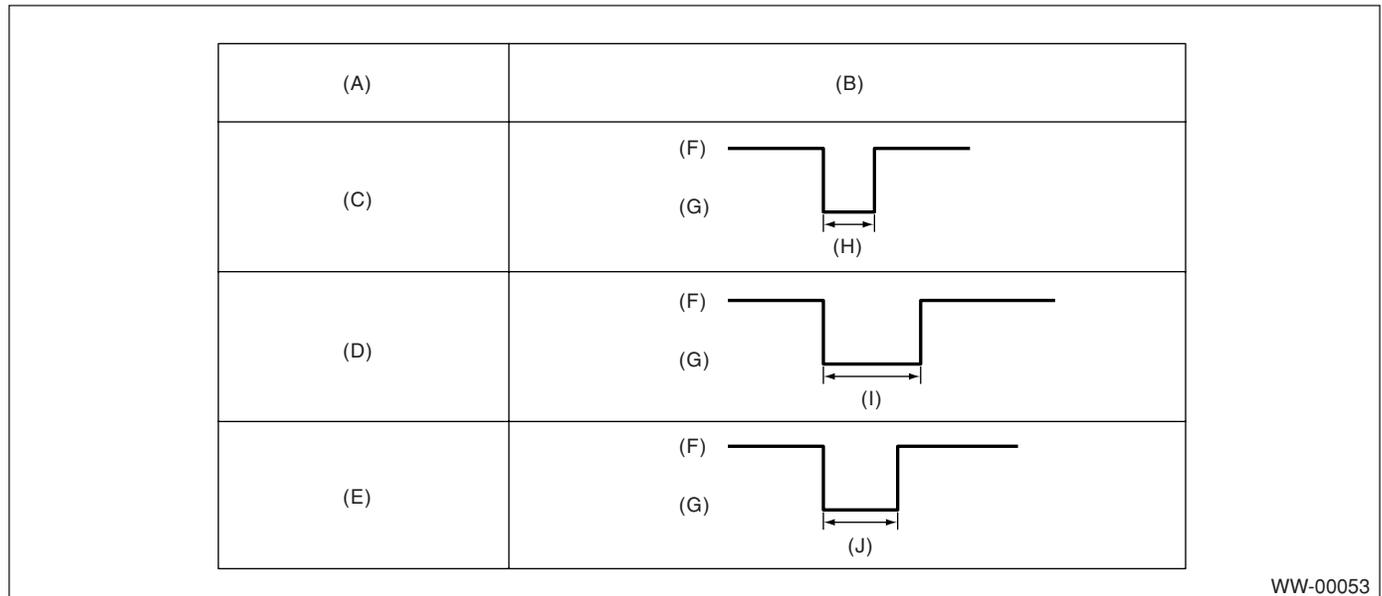
Step	Check	Yes	No
<b>1</b> <b>CHECK INPUT SIGNAL TO BODY INTEGRATED UNIT.</b> When the front wiper switch is operated, check the input signal using Subaru Select Monitor. 1) Connect the Subaru Select Monitor to data link connector. 2) Turn the ignition switch to ON. 3) Select {Body Integrated Unit} from the main menu. 4) Select {Current Data Display & Save}. 5) When the front wiper switch is set to LO or HI, check the input signal.	Is the input signal normal?	End.	Replace the body integrated unit. <Ref. to SL-53, Body Integrated Unit.>

### 2) Intermittent operation inspection

- (1) Turn the wiper switch to INT.
- (2) Adjust the intermittent control switch to MAX.
- (3) Apply the battery voltage to switch terminal No. 16 and 2.
- (4) Measure the voltage between combination switch terminals.

#### Terminals

##### No. 7 — No. 2:



- (A) Switch position
- (B) Voltage
- (C) MIN.
- (D) MAX.

- (E) Non-intermittent type
- (F) 12 V
- (G) 0 V

- (H) Approx. 2 sec.
- (I) 16±6 sec.
- (J) 3±1 sec.

### 3) If operation is not as specified, replace the switch.

## Combination Switch (Wiper)

### WIPER AND WASHER SYSTEMS

### 3. REAR WIPER

#### 1) Check with Subaru Select Monitor

Step	Check	Yes	No
<b>1 CHECK INPUT OF REAR WIPER.</b> Check the input from body integrated unit using Subaru Select Monitor. 1) Connect the Subaru Select Monitor to data link connector. 2) Turn the ignition switch to ON. 3) Select {Body Integrated Unit} from the main menu. 4) Select {Current Data Display & Save}. 5) Check the input of rear wiper switch.	Is the input normal?	Go to step 2.	Check the rear wiper switch. <Ref. to WW-6, INSPECTION, Combination Switch (Wiper).>
<b>2 CHECK OUTPUT OF BODY INTEGRATED UNIT.</b> When the rear wiper switch is operated, check the output using Subaru Select Monitor. 1) Turn the ignition switch to ON. 2) Operate the rear wiper switch to set to each position of ON and INT. 3) At this time, check the output of body integrated unit.	When it is set to ON, is ON output continuously? When it is set to INT, is ON/OFF output repeatedly? (INT OFF time (when vehicle parked): 12 seconds)	Check the rear wiper motor. <Ref. to WW-18, INSPECTION, Rear Wiper Motor.>	Replace the body integrated unit. <Ref. to SL-53, Body Integrated Unit.>

#### 2) Rear wiper motor circuit check

Step	Check	Yes	No
<b>1 CHECK POWER SUPPLY CIRCUIT OF REAR WIPER MOTOR.</b> 1) Disconnect the harness connector of rear wiper motor. 2) Turn the ignition switch to ACC. 3) Measure the voltage between the rear wiper motor harness connector terminal and chassis ground. <b>Connector &amp; terminal</b> <b>(D43) No. 1 (+) — Chassis ground (-):</b>	Is the voltage more than 10 V?	Go to step 2.	<ul style="list-style-type: none"> <li>• Check the fuse (No. 23 in fuse &amp; relay box).</li> <li>• Check the fusible link (No. 6 in main fuse box).</li> </ul>
<b>2 CHECK GROUND CIRCUIT OF REAR WIPER MOTOR.</b> 1) Turn the ignition switch to OFF. 2) Measure the resistance between the rear wiper motor harness connector terminal and chassis ground. <b>Connector &amp; terminal</b> <b>(D43) No. 3 — Chassis ground:</b>	Is the resistance less than 10 $\Omega$ ?	Go to step 3.	Repair the open circuit of rear wiper motor ground cable.
<b>3 CHECK HARNESS BETWEEN BODY INTEGRATED UNIT AND REAR WIPER MOTOR.</b> 1) Turn the ignition switch to OFF. 2) Disconnect the harness connector of body integrated unit. 3) Disconnect the harness connector of rear wiper motor. 4) Measure the resistance between the harness connector terminals of body integrated unit and rear wiper motor. <b>Connector &amp; terminal</b> <b>(B280) No. 1 — (D43) No. 2:</b> <b>(B280) No. 8 — (D43) No. 4:</b>	Is the resistance less than 10 $\Omega$ ?	Go to step 4.	Repair the open circuit of harness between body integrated unit and rear wiper motor.

# Combination Switch (Wiper)

Step	Check	Yes	No
<b>4</b> <b>CHECK OPERATION OF REAR WIPER MOTOR.</b> 1) Remove the rear wiper motor. 2) Check the rear wiper motor. <Ref. to WW-18, INSPECTION, Rear Wiper Motor.>	Does the rear wiper motor rotate normally?	End.	Replace the rear wiper motor.

**NOTE:**

Rear wiper intermittent time (AT model only)

Select lever position (AT model only)	Vehicle speed (km/h (MPH))	Intermittent stopping time (sec.)
Rev	—	Continuous operation
Except reverse mode	80 — (50 — )	3
	50 — 80 (31 — 50)	6
	20 — 50 (12 — 31)	9
	0 — 20 (0 — 12)	12