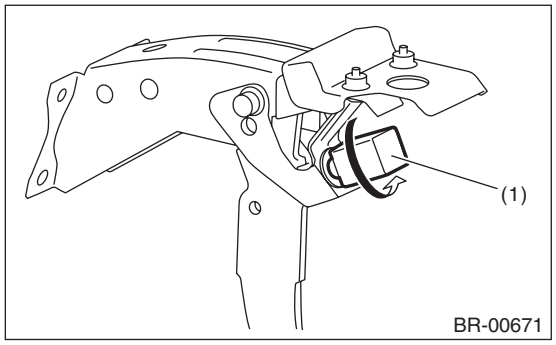
15.Stop Light Switch

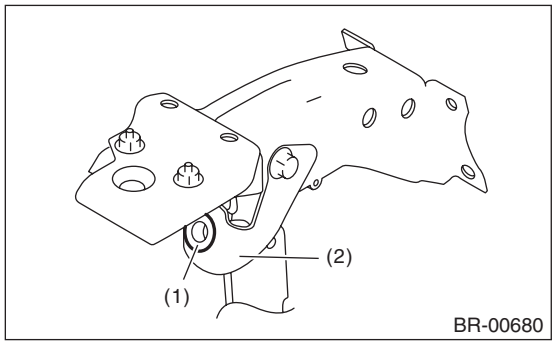
A: REMOVAL

1) Disconnect the ground cable from battery.
2) Disconnect the stop light switch connector.
3) Turn the stop light switch (1) counterclockwise and remove the stop light switch.



B: INSTALLATION

1) Make sure that the holder is securely installed to the brake pedal bracket.

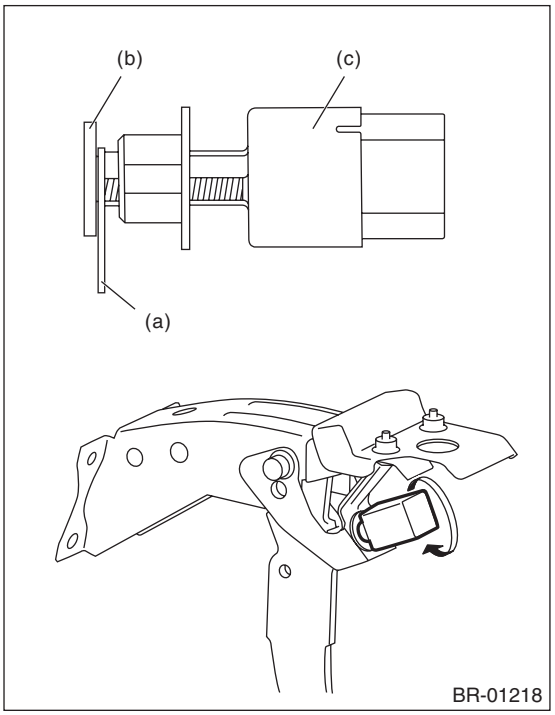


(1) Holder
(2) Brake pedal bracket

2) Install the stop light switch.

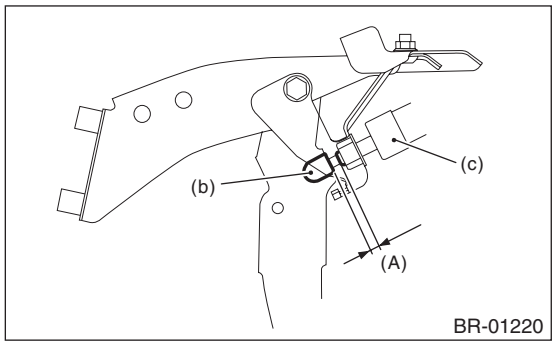
CAUTION:
• When pushing the stop light switch against the spacer, do not apply excessive force.
• Tighten the stop light switch with a turning torque of 3.0 N·m (0.31 kgf-m, 2.2 ft-lb) or less.

(1) Prepare the spacer (a) with approx. 0.5 mm (0.020 in) in thickness.
(2) Align the groove of holder with the cutout portion of stop light switch push rod.
(3) While pulling up the brake pedal toward you, set the spacer (a) between the stopper (b) and stop light switch (c).
(4) Insert the stop light switch (c) and turn it clockwise by 45° to secure.



3) Remove the spacer (a).
4) Pull up the brake pedal and make sure that the clearance (A) between the stop light switch end and the stopper is 1.5 — 2.5 mm (0.06 — 0.1 in).

Stop light switch clearance (A):
Standard
1.5 mm — 2.5 mm (0.06 in — 0.1 in)



(b) Stopper
(c) Stop light switch

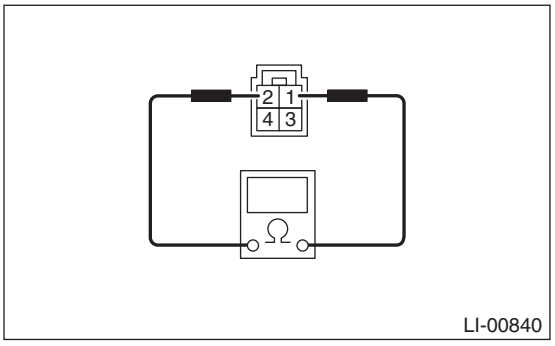
5) Connect the stop light switch connector.
6) Connect the battery ground terminal.
7) Check that the brake light operate properly.

NOTE:
Operate the brake pedal by 5 mm (0.2 in) or more, check that the stop light illuminates.
8) Check the stop light switch operation.
(1) Turn to IG OFF and connect the Subaru Select Monitor.
(2) Turn to IG ON and display the data of the "Brake Switch" and "Pressure Sensor Output" according to the Subaru Select Monitor display.
(3) Check that the stop light switch is OFF with the brake pedal not depressed.
(4) Quickly depress the brake pedal 5 times.
(5) Slowly release the brake pedal depressed at the fifth time and check that the master cylinder pressure is within the standard value when the stop light switch changes from OFF to ON.

Specification:
Less than 1 Mpa (10 bar)

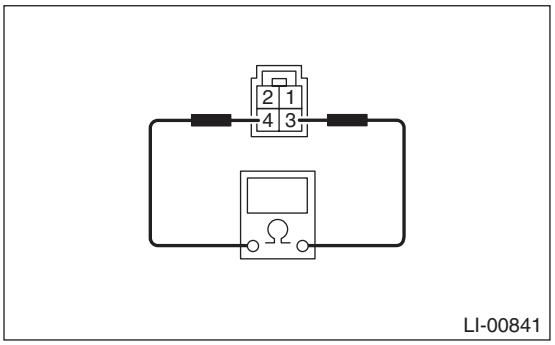
C: INSPECTION

1) Measure the resistance between stop light switch terminals.
• 5 door model



Switch	Pedal	Terminal No.	Standard
Stop light	Released	1 and 2	1 MΩ or more
	Depressed		Less than 1 Ω
	Released	3 and 4	Less than 1 Ω
	Depressed		1 MΩ or more

• 4 door model



Switch	Pedal	Terminal No.	Standard
Stop light	Released	3 and 4	1 MΩ or more
	Depressed		Less than 1 Ω
	Released	1 and 2	Less than 1 Ω
	Depressed		1 MΩ or more

2) Replace the stop light switch if the inspection result is not within the standard value.