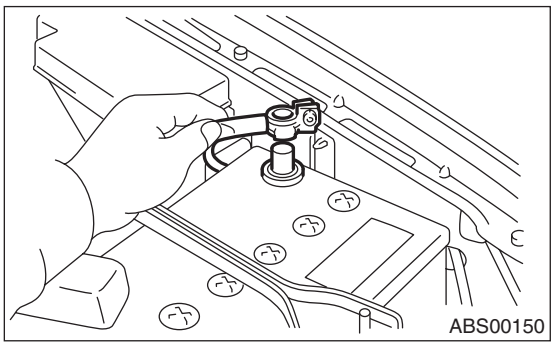
8. G Sensor

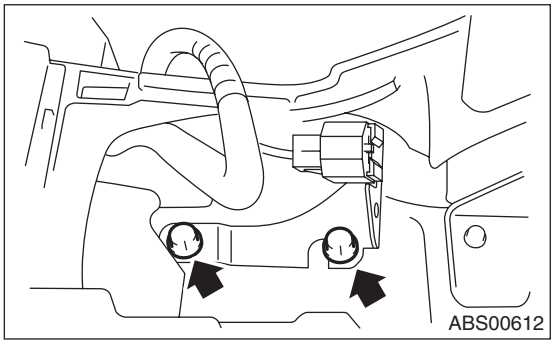
A: REMOVAL

1) Disconnect the ground cable from the battery.



2) Remove the console cover.
<Ref. to EI-37, REMOVAL, Console Box.>
3) Disconnect the connector from the G sensor.
4) Remove the G sensor from the body.

CAUTION:
- **Do not drop or bump the G sensor.**
- **The G sensor integrated with the bracket. Do not disassemble.**



B: INSTALLATION

Install in the reverse order of removal.

Tightening torque:
18 N·m (1.8 kgf-m, 13.0 ft-lb)

CAUTION:
Do not drop or bump the G sensor.

C: INSPECTION

Step		Check	Yes	No
1	**CHECK SUBARU SELECT MONITOR.**	Is a Subaru Select Monitor available?	Go to step **5**.	Go to step **2**.
2	**CHECK G SENSOR.** 1) Turn the ignition switch to OFF. 2) Remove the G sensor from vehicle. 3) Connect the connector to the G sensor. 4) Turn the ignition switch to ON. 5) Measure the voltage between G sensor connector terminals. ***Connector & terminal*** ***(B292) No. 2 (+) — No. 3 (–):***	Is the voltage 2.3±0.2 V when G sensor is in a horizontal position?	Go to step **3**.	Replace the G sensor.
3	**CHECK G SENSOR.** Measure the voltage between G sensor connector terminals. ***Connector & terminal*** ***(B292) No. 2 (+) — No. 3 (–):***	Is the voltage between 3.9±0.2 V when G sensor is inclined forward 90°?	Go to step **4**.	Replace the G sensor.
4	**CHECK G SENSOR.** Measure the voltage between G sensor connector terminals. ***Connector & terminal:*** ***(B292) No. 2 (+) — No. 3 (–)***	Is the voltage 0.7±0.2 V when the G sensor is inclined backward 90°?	G sensor is normal.	Replace the G sensor.
5	**CHECK G SENSOR.** 1) Turn the ignition switch to OFF. 2) Connect the Subaru Select Monitor to the data link connector. 3) Set the Subaru Select Monitor to the “BRAKE CONTROL” mode. 4) Set the display in the {Current Data Display & Save} mode. 5) Read the Subaru Select Monitor display.	Is the indicated reading on the monitor display 0±0.1 m/s ^{2}?	Go to step **6**.	Replace the G sensor.
6	**CHECK G SENSOR.** 1) Remove the console box. 2) Remove the G sensor from vehicle. (Do not disconnect the connector.) 3) Read the Subaru Select Monitor display.	Is the numerical value 9.8± 0.1 m/s^2 when G sensor is inclined forward 90°?	Go to step **7**.	Replace the G sensor.
7	**CHECK G SENSOR.** Read the Subaru Select Monitor display.	Is the numerical value –9.8± 0.1 m/s^2 when G sensor is inclined back 90°?	G sensor is normal.	Replace the G sensor.