

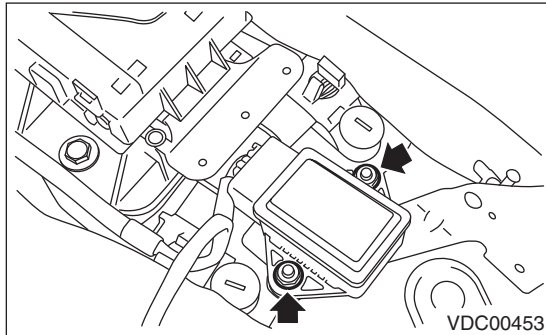
5. Yaw Rate and Lateral G Sensor

A: REMOVAL

- 1) Disconnect the ground cable from the battery.
- 2) Remove the console box.
<Ref. to EI-46, Console Box.>
- 3) Disconnect the connector from yaw rate & lateral G sensor.
- 4) Remove the yaw rate & lateral G sensor.

CAUTION:

Do not drop or bump the yaw rate & lateral G sensor.



B: INSTALLATION

Install in the reverse order of removal.

Tightening torque:

7.5 N·m (0.76 kgf-m, 5.5 ft-lb)

CAUTION:

After completion of installation, set the following two positions.

- Positioning to the center of steering angle sensor
- Positioning of the yaw rate & lateral G sensor to zero

The procedures above are required for the VDCCM&H/U to identify the vehicle position later. For the setting procedures of the two steps above, refer to “VDC Control Module and Hydraulic Control Unit (VDCCM&H/U)”. <Ref. to VDC-13, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

C: INSPECTION

1. YAW RATE & LATERAL G SENSOR SIGNAL

Step	Check	Yes	No
1 CHECK YAW RATE & LATERAL G SENSOR. 1) Turn the ignition switch to OFF. 2) Connect the Subaru Select Monitor connector to the data link connector. 3) Turn the ignition switch to ON. 4) Set the Subaru Select Monitor to "Brake Control System" mode. 5) Select {Current Data Display & Save}. 6) Read the output of the yaw rate & lateral G sensor.	Are the indicated values when the vehicle is placed horizontally, Lateral G sensor: $-1.5 \sim 1.5 \text{ m/s}^2$, Yaw rate sensor: $-4 \sim 4 \text{ deg/s}$?	Go to step 2.	Repair the harness connector between yaw rate & lateral G sensor and VDCCM&H/U. Or replace the yaw rate & lateral G sensor.
2 CHECK VEHICLE.	Is the vehicle an AT model?	Go to step 5.	Go to step 3.
3 CHECK G SENSOR. 1) Remove the console box. 2) Remove the yaw rate & lateral G sensor from vehicle without disconnecting the connector. 3) Read the display of Subaru Select Monitor. NOTE: When the yaw rate & lateral G sensor is moved with its power supply on, DTC of yaw rate & lateral G sensor may be recorded.	When the yaw rate & lateral G sensor is inclined 90° forward, is the indicated value $6.8 \sim 12.8 \text{ m/s}^2$?	Go to step 4.	Repair the harness connector between yaw rate & lateral G sensor and VDCCM&H/U. Or replace the yaw rate & lateral G sensor.
4 CHECK G SENSOR. Read the display of Subaru Select Monitor. NOTE: When the yaw rate & lateral G sensor is moved with its power supply on, DTC of yaw rate & lateral G sensor may be recorded.	When the yaw rate & lateral G sensor is inclined 90° backward, is the indicated value $-6.8 \sim -12.8 \text{ m/s}^2$?	Go to step 5.	Repair the harness connector between yaw rate & lateral G sensor and VDCCM&H/U. Or replace the yaw rate & lateral G sensor.
5 CHECK G SENSOR. 1) Remove the console box. (AT model only) 2) Remove the yaw rate & lateral G sensor from vehicle without disconnecting the connector. (AT model only) 3) Read the display of Subaru Select Monitor. NOTE: When the yaw rate & lateral G sensor is moved with its power supply on, DTC of yaw rate & lateral G sensor may be recorded.	Is the value $6.8 \sim 12.8 \text{ m/s}^2$ when the yaw rate & lateral G sensor is inclined 90° to the right?	Go to step 6.	Repair the harness connector between yaw rate & lateral G sensor and VDCCM&H/U. Or replace the yaw rate & lateral G sensor.
6 CHECK G SENSOR. Read the display of Subaru Select Monitor. NOTE: When the yaw rate & lateral G sensor is moved with its power supply on, DTC of yaw rate & lateral G sensor may be recorded.	Is the value $-6.8 \sim -12.8 \text{ m/s}^2$ when the yaw rate & lateral G sensor is inclined 90° to the left?	Yaw rate & lateral G sensors are normal.	Repair the harness connector between yaw rate & lateral G sensor and VDCCM&H/U. Or replace the yaw rate & lateral G sensor.