

16. Turbine Speed Sensor

A: REMOVAL

CAUTION:

Be sure to prevent water or oil from contacting the connector terminal of turbine speed sensor. If adhesion occurs, replace with a new part.

1) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

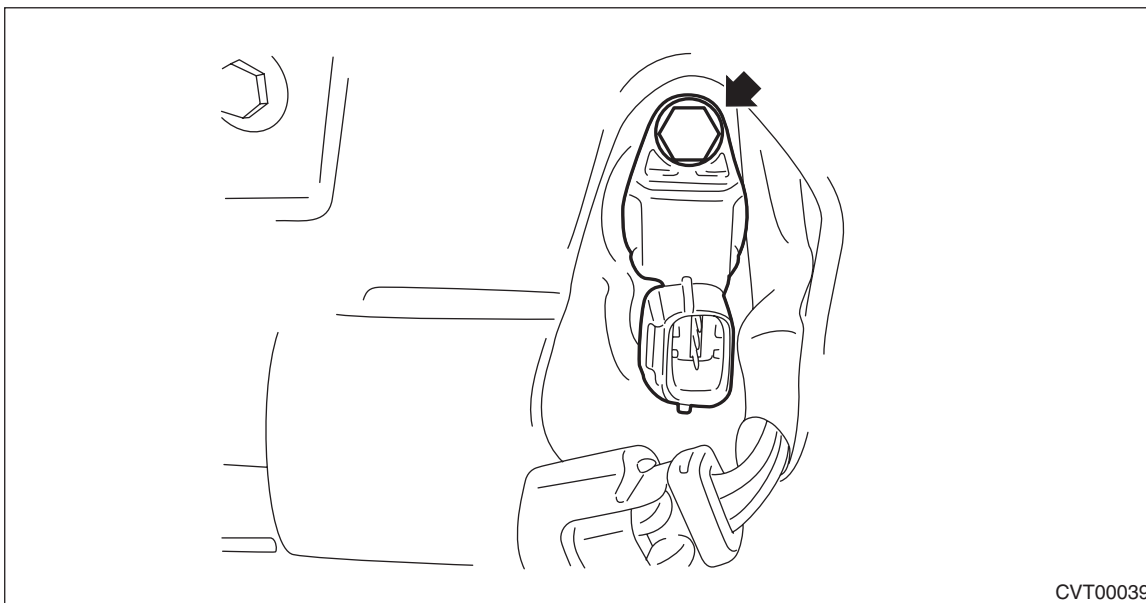
NOTE:

For the 12 volt engine restart battery, disconnect the ground terminal from 12V engine restart battery sensor.

2) Lift up the vehicle.

3) Remove the harness connector from turbine speed sensor.

4) Remove the turbine speed sensor.



CVT00039

B: INSTALLATION

CAUTION:

Be sure to prevent water or oil from contacting the connector terminal of turbine speed sensor. If adhesion occurs, replace with a new part.

Install in the reverse order of removal.

NOTE:

- Use new O-rings.
- Apply CVTF to the O-ring.

Tightening torque:

7 N·m (0.7 kgf-m, 5.2 ft-lb)

Turbine Speed Sensor

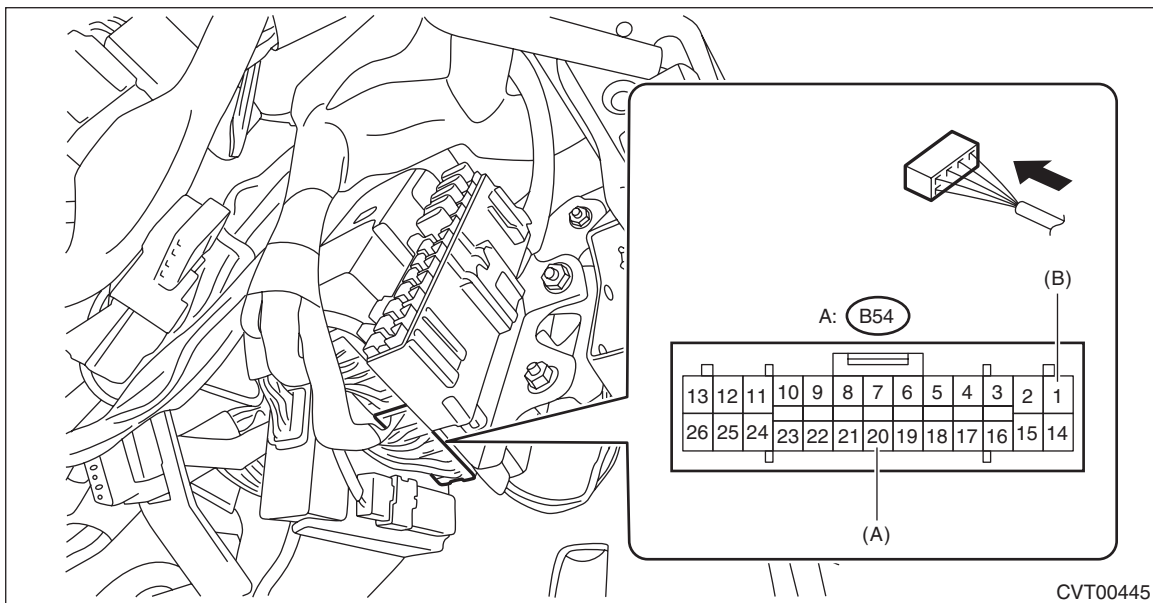
CONTINUOUSLY VARIABLE TRANSMISSION

C: INSPECTION

1) Set the probe of oscilloscope to TCM harness connector.

Connector & terminal

(B54) No. 20 (+) — No. 1 (–):



(A) + probe

(B) – probe

2) Start and warm up the engine.

3) Perform “Engine only Drive Mode” using the Subaru Select Monitor. <Ref. to HEV(diag)-71, HYBRID POWERTRAIN CONTROL SYSTEM, OPERATION, System Operation Check Mode.>

4) Check the waveform and output voltage of the turbine speed sensor with engine idling.

NOTE:

The waveform cycle changes as the speed changes.

