



DTC 45:

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Initiator Circuit Short Detection

1. Turn the ignition switch to ON (II).
2. Clear the DTC with the HDS.
3. Turn the ignition switch to LOCK (0), then turn the ignition switch to ON (II) again.
4. Check for DTCs with the HDS.

Is DTC 45 indicated?

YES —

Go to step [5](#).

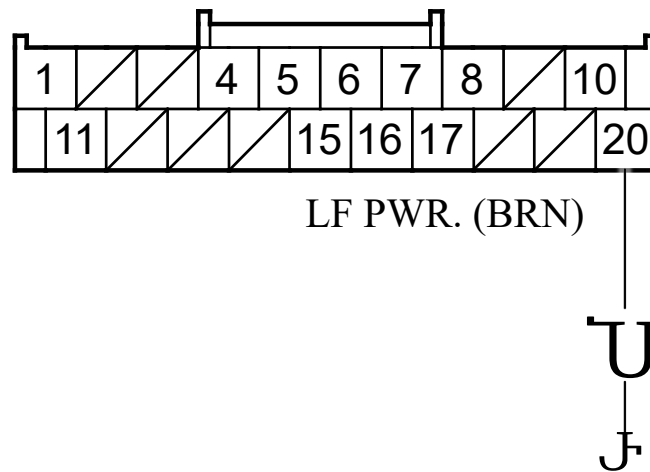
NO —

The system is OK at this time.■

5. Turn the ignition switch to LOCK (0).
6. [Disconnect the TPMS control unit 20P connector.](#)
7. Check for continuity between body ground and TPMS control unit 20P connector terminal No. 20.



TPMS CONTROL UNIT 20P CONNECTOR



Wire side of female terminals

Is there continuity?

YES —

Go to step [8](#).

NO —

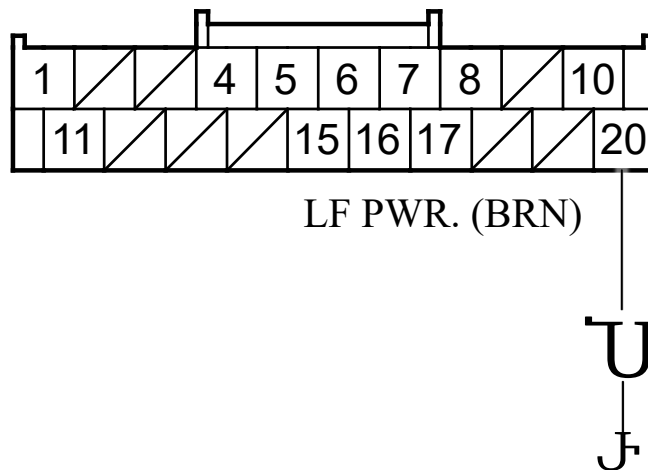
Go to step [11](#).

8. Disconnect all four of the initiator 3P connectors.

9. Check for continuity between body ground and TPMS control unit 20P connector terminal No. 20.



TPMS CONTROL UNIT 20P CONNECTOR



Wire side of female terminals

Is there continuity?

YES —

Repair short to body ground in the wire between the TPMS control unit and the initiators.■

NO —

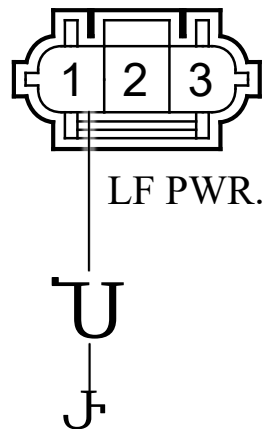
Go to step [10](#).

10. Plug in one initiator at a time, and check for continuity between body ground and initiator 3P connector terminal No. 1.

NOTE: Check the initiators when mounted on the vehicle.



INITIATOR 3P CONNECTOR



Terminal side of male terminals

Is there continuity?

YES —

[Replace the appropriate initiator.](#) ■

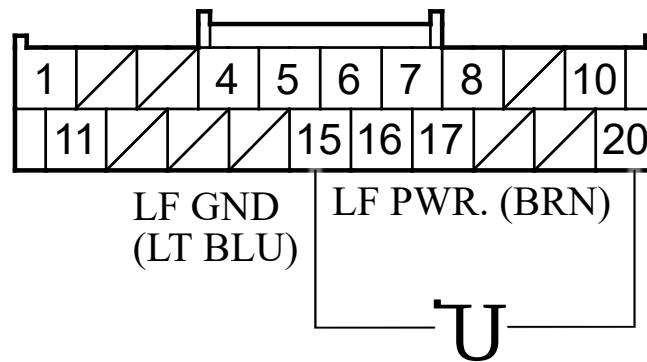
NO —

Check for loose terminals and poor connections at the TPMS control unit. If necessary, [substitute a known-good TPMS control unit](#), and recheck. ■

11. Check for continuity between TPMS control unit 20P connector terminals No. 15 and No. 20.



TPMS CONTROL UNIT 20P CONNECTOR



Wire side of female terminals

Is there continuity?

YES —

Go to step [12](#).

NO —

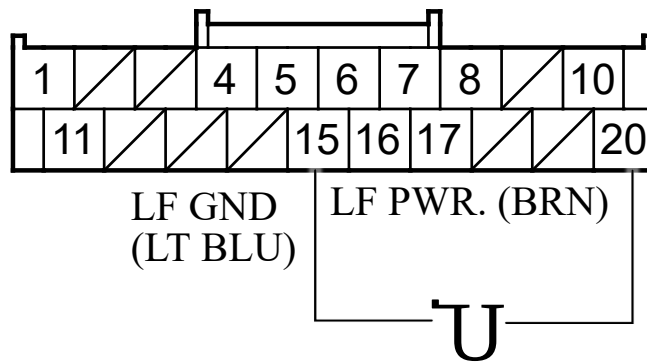
Go to step [15](#).

12. Disconnect all four of the initiator 3P connectors.

13. Check for continuity between TPMS control unit 20P connector terminals No. 15 and No. 20.



TPMS CONTROL UNIT 20P CONNECTOR



Wire side of female terminals

Is there continuity?

YES —

Repair short in the wire between TPMS control unit 20P connector terminals No. 15 (LF GND line) and No. 20 (LF PWR. line).■

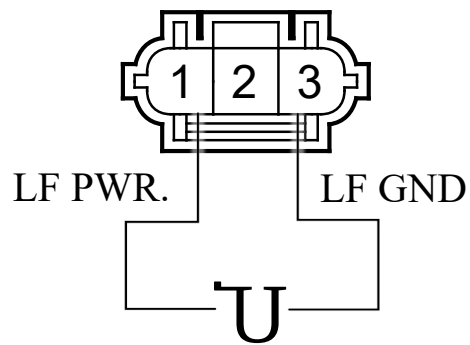
NO —

Go to step [14](#).

14. On each individual initiator, check for continuity between initiator 3P connector terminals No. 1 and No. 3.



INITIATOR 3P CONNECTOR



Terminal side of male terminals

Is there continuity?

YES —

[Replace the appropriate initiator.](#) ■

NO —

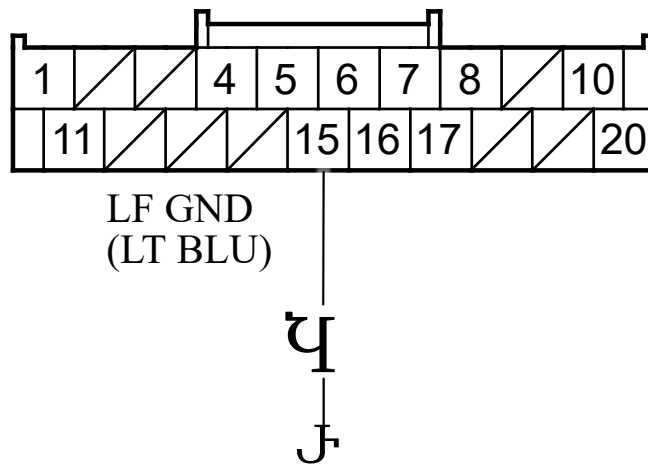
Check for loose terminals and poor connections at the TPMS control unit. If necessary, [substitute a known-good TPMS control unit](#), and recheck. ■

15. Turn the ignition switch to ON (II).

16. Measure the voltage between body ground and TPMS control unit 20P connector terminal No. 15.



TPMS CONTROL UNIT 20P CONNECTOR



Wire side of female terminals

Is there battery voltage?

YES —

Repair short to power in the wire between the TPMS control unit and the initiators.■

NO —

Check for loose terminals and poor connections at the TPMS control unit. If necessary, [substitute a known-good TPMS control unit](#), and recheck.■