CAN Bus Integrity Inspection

- 1. Disconnect the battery power supply.
- **2.** Measure resistance between terminals 6 and 14 of DLC.

Standard value: 55 ~ 63 Ω



3. If displayed resistance is between $110 \sim 125$ Ω or there is no continuity, it indicates that there is a fault in CAN bus. Check the EMS wiring harness connector (check BCM for body CAN) in order, and repair it if there is an open circuit or poor connection.

Symptom Diagnosis and Testing Symptom Chart

If the fault occurs, but there is no Diagnosis Trouble Code (DTC) stored in the control unit for this fault, and cannot confirm the cause by basic inspection, diagnose and repair it in order listed in the following table.

Symptom	Possible Causes	Solutions
Diagnostic tool cannot communicate with EMS	Diagnostic toolCircuitEMS	Malfunction diagnosis procedure is similar to ESP. Refer to: Diagnosis Procedure for Disabled Communication Between Diagnostic Tool and ESP.
Diagnostic tool cannot communicate with TCU	 Diagnostic tool Circuit TCU 	Malfunction diagnosis procedure is similar to ESP. Refer to: Diagnosis Procedure for Disabled Communication Between Diagnostic Tool and ESP.
Diagnostic tool cannot communicate with ESP	Diagnostic toolCircuitESP	Refer to: Diagnosis Procedure for Disabled Communication Between Diagnostic Tool and ESP.
Diagnostic tool cannot communicate with SRS	 Diagnostic tool Circuit SRS 	Malfunction diagnosis procedure is similar to ESP. Refer to: Diagnosis Procedure for Disabled Communication Between Diagnostic Tool and ESP.
Diagnostic tool cannot communicate with EPS	Diagnostic toolCircuitEPS	Malfunction diagnosis procedure is similar to ESP. Refer to: Diagnosis Procedure for Disabled Communication Between Diagnostic Tool and ESP.

Symptom	Possible Causes	Solutions
Diagnostic tool cannot communicate with IP	 Diagnostic tool Circuit IP 	Malfunction diagnosis procedure is similar to ESP.
		Refer to: Diagnosis Procedure for Disabled Communication Between Diagnostic Tool and ESP.
Diagnostic tool cannot communicate with BCM	Diagnostic toolCircuitBCM	 Malfunction diagnosis procedure is similar to ESP.
		Refer to: Diagnosis Procedure for Disabled Communication Between Diagnostic Tool and ESP.
Diagnostic tool cannot communicate with ESCL	 Diagnostic tool Circuit ESCL 	Malfunction diagnosis procedure is similar to ESP. Refer to: Diagnosis Procedure for Disabled Communication Between Diagnostic Tool and ESP.
Diagnostic tool cannot communicate with AC	 Diagnostic tool Circuit AC 	Malfunction diagnosis procedure is similar to ESP. Refer to: Diagnosis Procedure for Disabled Communication Between Diagnostic Tool and ESP.

Diagnosis Procedure for Disabled Communication Between Diagnostic Tool and ESP

Test Conditions	Details/Results/Actions	
1. Verify fault symptom		
2. Inspect if diagnosis circuit to ground is normal P17 1 4 8 9 16 16 9 16 Ω	 A. Use a normal vehicle. B. Try to communicate with ESP. Is communication with ESP normal? Yes Go to step 2. No Replace with a new diagnostic tool. A. Vehicle power is in OFF position. B. Measure resistance between terminals 4 and 5 of DLC wiring harness connector P17 and reliable ground. Standard value: Less than 1 Ω Is resistance normal? Yes Go to step 3. No Inspect if terminals 4 and 5 of DLC wiring harness connector P17 to ground is normal. 	
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7. Replace ESP/ABS and confirm that fault is repaired