DETERMINING SHORT TO POWER SUPPLY LOCATION (HS-CAN) [SKYACTIV-D 2.2 (L.H.D.)]

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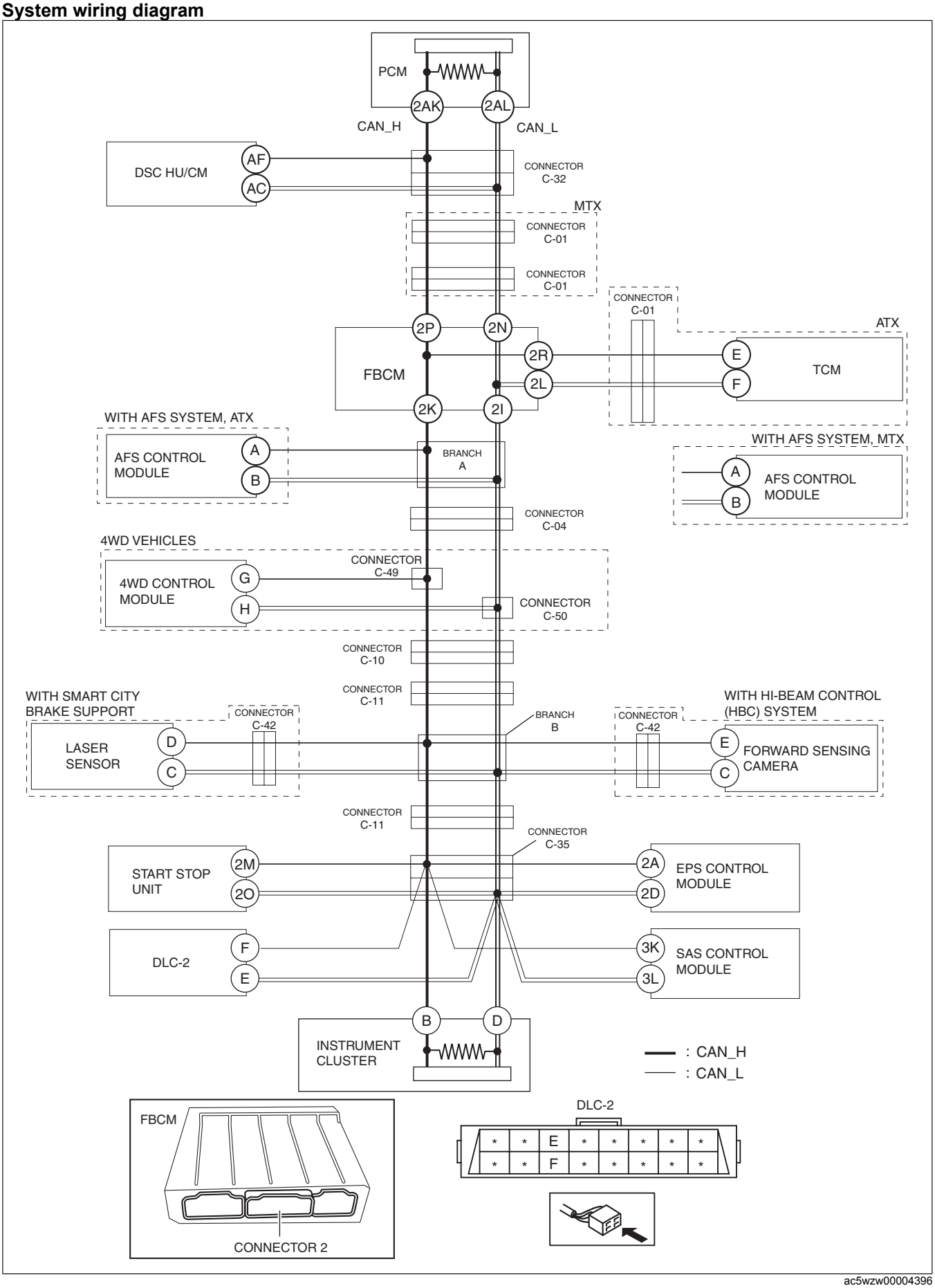
Caution

- **Perform the following malfunction diagnosis only when it is diagnosed with a short to power supply by CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [SKYACTIV-D 2.2 (L.H.D.)].**

System wiring diagram



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Determination procedure

Caution

- **When disconnecting the connector, verify that there is no looseness, damage, deformation, corrosion, or poor connection of the connector terminals.**
- **When inspecting the DLC-2, touch it with a paper clip or similar thin pin without directly inserting a tester into the terminals.**
- **Disconnect the negative battery cable before performing any work that requires handling of connectors.**

Step	Inspection		Action
1	**INSPECT FOR SHORT TO POWER SUPPLY BETWEEN FRONT BODY CONTROL MODULE (FBCM) AND INSTRUMENT CLUSTER** • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect connector 2 which has front body control module (FBCM) terminals 2K and 2I. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Go to the next step.
		No	Go to Step 5.
2	**INSPECT CAN LINE BETWEEN TCM OR AFS CONTROL MODULE AND FRONT BODY CONTROL MODULE (FBCM) FOR SHORT TO POWER SUPPLY** • Measure the voltage at TCM terminals E and F. (ATX) • Measure the voltage at AFS control module terminals A and B. (MTX) • Is the voltage between 1.5 - 3.5 V?	Yes	Go to Step 26.
		No	• Go to the next step. (ATX) • Go to Step 4. (MTX)
3	**INSPECT CAN LINE BETWEEN TCM AND CONNECTOR C-01 FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect connector C-01. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at TCM terminals E and F. • Is the voltage between 1.5 - 3.5 V?	Yes	Repair or replace the wiring harness between connector C-01 and the front body control module (FBCM) because the wiring harness is shorted to the power supply.
		No	Go to the next step.

Step	Inspection		Action
4	**INSPECT TCM OR AFS CONTROL MODULE FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the TCM connector. (ATX) • Connect connector C-01. (ATX) • Disconnect the AFS control module connector. (MTX) • Connect connector 2 which has front body control module (FBCM) terminals 2K and 2I • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	• Replace the TCM because there is a short to the power supply in the TCM. (ATX) (See CONTROL VALVE BODY REMOVAL/ INSTALLATION [FW6A-EL, FW6AX-EL].) (See CONTROL VALVE BODY REMOVAL/ INSTALLATION [GW6A-EL, GW6AX-EL].) • Replace the AFS control module because there is a short to the power supply in the AFS control module. (MTX) (See ADAPTIVE FRONT LIGHTING SYSTEM (AFS) CONTROL MODULE REMOVAL/INSTALLATION.)
		No	• Repair or replace the wiring harness between TCM and connector C-01 because the wiring harness is shorted to the power supply. (ATX) • Repair or replace the wiring harness between AFS control module and the front body control module (FBCM) because the wiring harness is shorted to the power supply. (MTX)
5	**INSPECT CAN LINE BETWEEN CONNECTOR C-04 AND INSTRUMENT CLUSTER FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect connector C-04. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	• Go to the next step. (ATX) • Repair or replace the wiring harness between the front body control module (FBCM) and connector C-04 because the wiring harness is shorted to the power supply. (MTX)
		No	Go to Step 7.
6	**INSPECT AFS CONTROL MODULE FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the AFS control module connector. • Connect connector C-04. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Replace the AFS control module because there is a short to the power supply in the AFS control module. (See ADAPTIVE FRONT LIGHTING SYSTEM (AFS) CONTROL MODULE REMOVAL/INSTALLATION.)
		No	Repair or replace the wiring harness between AFS control module and the front body control module (FBCM) / connector C-04 because the wiring harness is shorted to the power supply.

Step	Inspection		Action
7	**INSPECT CAN LINE BETWEEN CONNECTORS C-49 AND C-50 AND INSTRUMENT CLUSTER FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect connectors C-49 and C-50. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Go to the next step.
		No	Go to Step 10.
8	**INSPECT CAN LINE BETWEEN 4WD CONTROL MODULE AND CONNECTORS C-49 AND C-50 FOR SHORT TO POWER SUPPLY** • Measure the voltage at 4WD control module terminals G and H. • Is the voltage between 1.5 - 3.5 V?	Yes	Repair or replace the wiring harness between connector C-04 and connectors C-49 and C-50 because the wiring harness is shorted to the power supply.
		No	Go to the next step.
9	**INSPECT 4WD CONTROL MODULE FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Connect connectors C-49 and C-50. • Disconnect the 4WD control module connector. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Replace the 4WD control module because there is a short to the power supply in the 4WD control module. (See 4WD CONTROL MODULE REMOVAL/ INSTALLATION.)
		No	Repair or replace the wiring harness between the 4WD control module and connectors C-49 and C-50 because the wiring harness is shorted to the power supply.
10	**INSPECT CAN LINE BETWEEN CONNECTOR C-10 AND INSTRUMENT CLUSTER FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect connector C-10. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Repair or replace the wiring harness between connectors C-49 and C-50 and connector C-10 because the wiring harness is shorted to the power supply.
		No	Go to the next step.

Step	Inspection		Action
11	**INSPECT CAN LINE BETWEEN CONNECTOR C-11 AND INSTRUMENT CLUSTER FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect connector C-11. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Go to the next step.
		No	Go to Step 17.
12	**INSPECT CAN LINE BETWEEN CONNECTOR C-11 AND FORWARD SENSING CAMERA/ LASER SENSOR FOR SHORT TO POWER SUPPLY** • Measure the voltage at the forward sensing camera terminals E and C (with high beam control (HBC) system). • Measure the voltage at laser sensor terminals D and C (with smart city brake support). • Is the voltage between 1.5 - 3.5 V?	Yes	Repair or replace the wiring harness between connector C-10 and connector C-11 because the wiring harness is shorted to the power supply.
		No	Go to the next step.
13	**INSPECT CAN LINE BETWEEN LASER SENSOR AND CONNECTOR C-42 FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect connector C-42. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at laser sensor terminals D and C. • Is the voltage between 1.5 - 3.5 V?	Yes	Go to Step 15.
		No	Go to the next step.
14	**INSPECT LASER SENSOR FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the laser sensor connector. • Connect connector C-42. • Connect connector C-11. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Replace the laser sensor because there is a short to the power supply in the laser sensor. (See LASER SENSOR REMOVAL/INSTALLATION.)
		No	Repair or replace the wiring harness between the laser sensor and connector C-42 because the wiring harness is shorted to the power supply.

Step	Inspection		Action
15	**INSPECT CAN LINE BETWEEN FORWARD SENSING CAMERA AND CONNECTOR C-42 FOR SHORT TO POWER SUPPLY** • Measure the voltage at forward sensing camera terminals E and C. • Is the voltage between 1.5 - 3.5 V?	Yes	Repair or replace the wiring harness between connector C-11 and connector C-42 because the wiring harness is shorted to the power supply.
		No	Go to the next step.
16	**INSPECT FORWARD SENSING CAMERA FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the forward sensing camera connector. • Connect connector C-42. • Connect connector C-11. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Replace the forward sensing camera because there is a short to the power supply in the forward sensing camera. (See FORWARD SENSING CAMERA (FSC) REMOVAL/ INSTALLATION.)
		No	Repair or replace the wiring harness between the forward sensing camera and connector C-42 because the wiring harness is shorted to the power supply.
17	**INSPECT CAN LINE BETWEEN CONNECTOR C-35 AND DLC-2 FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect connector C-35. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage 0 V?	Yes	Go to the next step.
		No	Repair or replace the wiring harness between connector C-35 and DLC-2 because the wiring harness is shorted to the power supply.
18	**INSPECT CAN LINE BETWEEN START STOP UNIT AND CONNECTOR C-35 FOR SHORT TO POWER SUPPLY** • Measure the voltage at start stop unit terminals 2M and 2O. • Is the voltage between 1.5 - 3.5 V?	Yes	Go to Step 20.
		No	Go to the next step.

Step	Inspection		Action
19	**INSPECT START STOP UNIT FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Connect connector C-35. • Disconnect the start stop unit connector. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals E and F. • Is the voltage between 1.5 - 3.5 V?	Yes	Replace the start stop unit because there is a short to the power supply in the start stop unit. (See START STOP UNIT REMOVAL/INSTALLATION.)
		No	Repair or replace the wiring harness between the start stop unit and connector C-35 because the wiring harness is shorted to the power supply.
20	**INSPECT CAN LINE BETWEEN EPS CONTROL MODULE AND CONNECTOR C-35 FOR SHORT TO POWER SUPPLY** • Measure the voltage at EPS control module terminals 2A and 2D. • Is the voltage between 1.5 - 3.5 V?	Yes	Go to Step 22.
		No	Go to the next step.
21	**INSPECT EPS CONTROL MODULE FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Connect connector C-35. • Disconnect the EPS control module connector. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals E and F. • Is the voltage between 1.5 - 3.5 V?	Yes	Replace the EPS control module because there is a short to the power supply in the EPS control module. (See STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.)
		No	Repair or replace the wiring harness between the EPS control module and connector C-35 because the wiring harness is shorted to the power supply.
22	**INSPECT CAN LINE BETWEEN INSTRUMENT CLUSTER AND CONNECTOR C-35 FOR SHORT TO POWER SUPPLY** • Measure the voltage at instrument cluster terminals B and D. • Is the voltage between 1.5 - 3.5 V?	Yes	Go to Step 24.
		No	Go to the next step.
23	**INSPECT INSTRUMENT CLUSTER FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Connect connector C-35. • Disconnect the instrument cluster connector. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Replace the instrument cluster because the instrument cluster is shorted to the power supply. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)
		No	Repair or replace the wiring harness between the instrument cluster and connector C-35 because the wiring harness is shorted to the power supply.

Step	Inspection		Action
24	**INSPECT CAN LINE BETWEEN SAS CONTROL MODULE AND CONNECTOR C-35 FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the SAS control module connector. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at SAS control module terminals 3K and 3L (wiring harness side). • Is the voltage 0 V?	Yes	Go to the next step.
		No	Repair or replace the wiring harness between the SAS control module and connector C-35 because the wiring harness is shorted to the power supply.
25	**INSPECT CAN LINE BETWEEN CONNECTOR C-11 AND CONNECTOR C-35 FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Connect connector C-35. • Disconnect the SAS control module connector. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Replace the SAS control module because there is a short to the power supply in the SAS control module. (See SAS CONTROL MODULE REMOVAL/ INSTALLATION.)
		No	Repair or replace the wiring harness between connector C-11 and connector C-35 because the wiring harness is shorted to the power supply.
26	**INSPECT CAN LINE BETWEEN PCM AND FRONT BODY CONTROL MODULE (FBCM) FOR SHORT TO POWER SUPPLY** • Measure voltage at PCM terminals 2AK and 2AL. • Is the voltage between 1.5 - 3.5 V?	Yes	Replace the front body control module (FBCM) because there is a short to the power supply in the front body control module (FBCM). (See FRONT BODY CONTROL MODULE (FBCM) REMOVAL/INSTALLATION.)
		No	• Go to Step 29. (ATX) • Go to the next step. (MTX)
27	**INSPECT CAN LINE BETWEEN CONNECTOR C-01 AND FRONT BODY CONTROL MODULE (FBCM) FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect connector C-01. • Connect connector 2 which has front body control module (FBCM) terminals 2K and 2I. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Go to the next step.
		No	Repair or replace the wiring harness between connector C-01 and the front body control module (FBCM) because the wiring harness is shorted to the power supply.

Step	Inspection		Action
28	**INSPECT CAN LINE BETWEEN CONNECTOR C-01 AND CONNECTOR C-32 FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect connector C-32. • Connect connector C-01. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Go to Step 30.
		No	Repair or replace the wiring harness between connector C-01 and connector C-32 because the wiring harness is shorted to the power supply.
29	**INSPECT CAN LINE BETWEEN CONNECTOR C-32 AND FRONT BODY CONTROL MODULE (FBCM) FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect connector C-32. • Connect connector 2 which has front body control module (FBCM) terminals 2K and 2I. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Go to the next step.
		No	Repair or replace the wiring harness between connector C-32 and front body control module (FBCM) because the wiring harness is shorted to the power supply.
30	**INSPECT CAN LINE BETWEEN DSC HU/CM AND CONNECTOR C-32 FOR SHORT TO POWER SUPPLY** • Measure voltage at DSC HU/CM terminals AF and AC. • Is the voltage between 1.5 - 3.5 V?	Yes	Go to Step 32.
		No	Go to the next step.
31	**INSPECT DSC HU/CM FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Connect connector C-32. • Disconnect the DSC HU/CM connector. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Replace the DSC HU/CM because the DSC HU/CM is shorted to the power supply. (See DSC HU/CM REMOVAL/INSTALLATION.)
		No	Repair or replace the wiring harness between the DSC HU/CM and connector C-32 because the wiring harness is shorted to the power supply.

Step	Inspection		Action
32	**INSPECT PCM FOR SHORT TO POWER SUPPLY** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Connect connector C-32. • Disconnect the PCM connector. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off). • Measure the voltage at DLC-2 terminals F and E. • Is the voltage between 1.5 - 3.5 V?	Yes	Replace the PCM because there is a short to the power supply in the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Repair or replace the wiring harness between the PCM and connector C-32 because the wiring harness is shorted to the power supply.