DTC U0320:00 [SKYACTIV-D 2.2]

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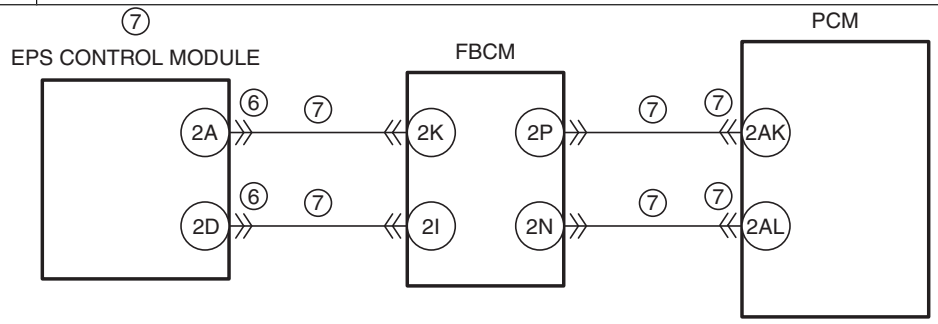
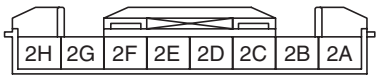
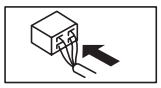
DTC U0320:00	EPS control module error
DETECTION CONDITION	• When any of the following conditions is met: — CAN communication line malfunction between PCM and EPS control module — EPS control module internal malfunction **Diagnostic support note** • This is a continuous monitor (other). • The check engine light does not illuminate. • FREEZE FRAME DATA (Mode 2)/Snapshot data is not available. • DTC is stored in the PCM memory.
FAIL-SAFE FUNCTION	Not applicable
POSSIBLE CAUSE	• CAN drive error (instrument cluster or PCM) • CAN communication line malfunction between PCM and EPS control module — EPS control module terminal 2A—Front body control module (FBCM) terminal 2K — EPS control module terminal 2D—Front body control module (FBCM) terminal 2I — Front body control module (FBCM) terminal 2P—PCM terminal 2AK — Front body control module (FBCM) terminal 2N—PCM terminal 2AL • Front body control module (FBCM) malfunction • EPS control module connector or terminals malfunction • PCM connector or terminals malfunction • EPS control module malfunction • PCM malfunction

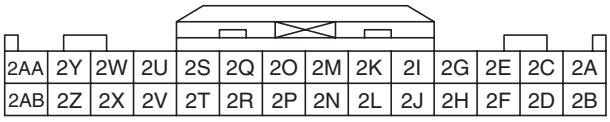


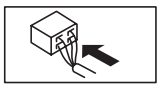
EPS CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR



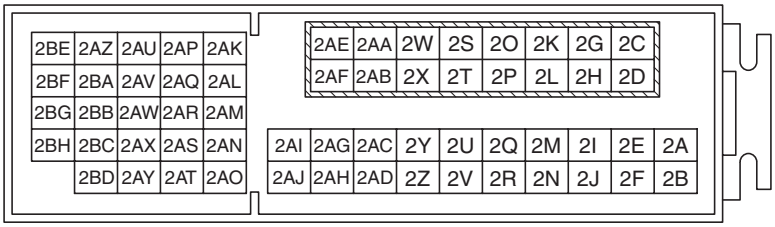


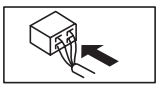
FBCM WIRING HARNESS-SIDE CONNECTOR





PCM WIRING HARNESS-SIDE CONNECTOR





Diagnostic Procedure

STEP	INSPECTION		ACTION
1	**VERIFY RELATED SERVICE INFORMATION AVAILABILITY** • Verify related Service Information availability. • Is any related Service Information available?	Yes	Perform repair or diagnosis according to the available Service Information. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
2	**VERIFY DTC FOR MODULE COMMUNICATION** • Switch the ignition off, then ON (engine off). • Perform the DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) • Are any other PENDING CODEs and/or DTCs present?	Yes	Go to the applicable PENDING CODE or DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].)
		No	Go to the next step.
3	**VERIFY FRONT BODY CONTROL MODULE (FBCM) DTC** • Perform the front body control module (FBCM) DTC inspection using the M-MDS. (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [FRONT BODY CONTROL MODULE (FBCM)].)
		No	Go to the next step.
4	**VERIFY EPS CONTROL MODULE DTC** • Perform the EPS control module DTC inspection using the M-MDS. (See ELECTRIC POWER STEERING (EPS) ON-BOARD DIAGNOSIS.) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See ELECTRIC POWER STEERING (EPS) ON-BOARD DIAGNOSIS.)
		No	Go to the next step.
5	**VERIFY INSTRUMENT CLUSTER DTC** • Perform the instrument cluster DTC inspection using the M-MDS. (See DTC INSPECTION [INSTRUMENT CLUSTER].) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [INSTRUMENT CLUSTER].)
		No	Go to the next step.
6	**INSPECT EPS CONTROL MODULE CONNECTOR CONDITION** • Switch the ignition off. • Disconnect the EPS control module connector. • Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector and/or terminals, then go to Step 8.
		No	Go to the next step.
7	**INSPECT PCM CONNECTOR CONDITION** • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector and/or terminals, then go to the next step.
		No	CAN communication line can be considered the cause. • Repair or replace the following wiring harnesses. — EPS control module terminal 2A—Front body control module (FBCM) terminal 2K — EPS control module terminal 2D—Front body control module (FBCM) terminal 2I — Front body control module (FBCM) terminal 2P—PCM terminal 2AK — Front body control module (FBCM) terminal 2N—PCM terminal 2AL • If the malfunction recurs, replace the EPS control module. (See STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.) Go to the next step.

STEP	INSPECTION		ACTION
8	**VERIFY DTC TROUBLESHOOTING COMPLETED** • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) • Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-D 2.2].) • Is the same DTC present?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step.
		No	Go to the next step.
9	**VERIFY AFTER REPAIR PROCEDURE** • Perform the “AFTER REPAIR PROCEDURE”. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].)
		No	DTC troubleshooting completed.