

DTC U3003:16	Battery power supply
DETECTION CONDITION	<ul style="list-style-type: none"> Voltage of 8 V or less detected by EPS CM internal ignition voltage observation.
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> Control is maintained by gradually decreasing the motor control current <ul style="list-style-type: none"> However, control is inhibited if the power supply voltage is the specified value or less. Power steering malfunction indicator light: Illuminated
POSSIBLE CAUSE	<ul style="list-style-type: none"> Battery and/or generator malfunction EPS 60A fuse malfunction Malfunction in the wiring harness between EPS CM terminal 1B and battery Open circuit in the wiring harness between EPS CM terminal 1A and body ground
SYSTEM WIRING DIAGRAM	<p>EPS CONTROL MODULE HARNESS-SIDE CONNECTOR</p>

Diagnostic Procedure

Step	Inspection		Action
1	INSPECT BATTERY VOLTAGE • Is the battery terminal voltage normal?	Yes	Make sure that battery terminal connection is okay. Go to the next step.
		No	Charge or replace the battery, then go to Step 6. (See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See BATTERY RECHARGING [SKYACTIV-D 2.2].) (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
2	INSPECT BATTERY GRAVITY • Is the battery specific gravity as specified?	Yes	Go to the next step.
		No	Replace the battery, then go to Step 6. (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
3	INSPECT CHARGING SYSTEM • Are the generator and drive belt tension normal?	Yes	Go to the next step.
		No	Replace the generator and/or drive belt if necessary. Go to step 6. (See GENERATOR REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See GENERATOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) (See DRIVE BELT REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See DRIVE BELT REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

Step	Inspection	Action
4	INSPECT FUSE CONDITION • Is the fuse (EPS 60A) normal?	Yes
		No
5	INSPECT EPS CM POWER SUPPLY CIRCUIT FOR OPEN OR SHORT CIRCUIT • Start the engine. • Measure the voltage between following EPS CM terminal (wiring harness-side) and ground. — EPS CM: 1B—ground • Is the voltage 8 V or more ?	Yes
		No
6	INSPECT EPS CM GROUND CIRCUIT FOR POOR GROUND OR OPEN CIRCUIT • Switch the ignition OFF. • Inspect for continuity between EPS control module terminal 1A and body ground. • Is there continuity?	Yes
		No
7	VERIFY THAT THE SAME DTC IS NOT PRESENT • Make sure to reconnect all disconnected connectors. • Clear the DTC from the memory. (See ELECTRIC POWER STEERING (EPS) ON-BOARD DIAGNOSIS.) • Is the same DTC present?	Yes
		No
8	VERIFY THAT NO OTHER DTCS ARE PRESENT • Are any other DTCS output?	Yes
		No