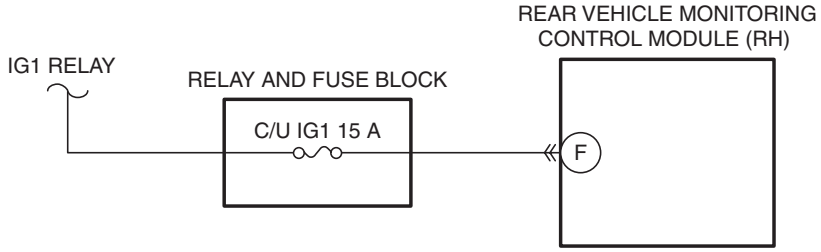
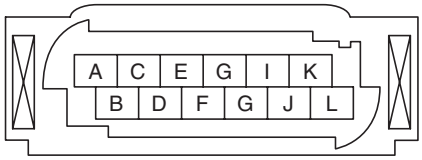
DTC U3003:16 [REAR VEHICLE MONITORING SYSTEM]

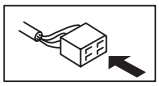
id0902z2888800

System malfunction location	**Rear vehicle monitoring control module (RH) low power supply voltage input**
Detection condition	• Power supply circuit voltage of **9 V or less** is detected in rear vehicle monitoring control module (RH) for **1 s or more**.
Fail-safe	• Inhibits the rear vehicle monitoring system.
Possible cause	• DTCs are stored in the PCM. • Battery malfunction • Generator malfunction • Rear vehicle monitoring control module (RH) connector or terminal malfunction • Rear vehicle monitoring control module (RH) power supply circuit malfunction — Short to ground in wiring harness between C/U IG1 15 A fuse and rear vehicle monitoring control module (RH) terminal F — C/U IG1 15 A fuse malfunction — Open circuit in wiring harness between IG1 relay and rear vehicle monitoring control module (RH) terminal F • Rear vehicle monitoring control module (RH) malfunction



REAR VEHICLE MONITORING CONTROL MODULE (RH) WIRING HARNESS-SIDE CONNECTOR





Diagnostic Procedure

Step	Inspection		Action
1	**VERIFY PCM DTCs** • Perform the DTC inspection for the PCM using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) • Is the DTC displayed?	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See DTC TABLE [SKYACTIV-D 2.2].)
		No	Go to the next step.
2	**INSPECT BATTERY** • Inspect the battery. (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY INSPECTION [SKYACTIV-D 2.2].) • Is the battery normal?	Yes	Go to the next step.
		No	Recharge or replace the battery, then go to Step 6. (See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (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].)

Step	Inspection		Action
3	**INSPECT GENERATOR** • Inspect the generator. (See GENERATOR INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See GENERATOR INSPECTION [SKYACTIV-D 2.2].) • Is the generator normal?	Yes	Go to the next step.
		No	Replace the generator, then go to Step 6. (See GENERATOR REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See GENERATOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
4	**INSPECT REAR VEHICLE MONITORING CONTROL MODULE (RH) CONNECTOR** • Switch the ignition to off. • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the rear vehicle monitoring control modules (RH) connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 6.
5	**VERIFY REAR VEHICLE MONITORING CONTROL MODULE (RH) POWER SUPPLY VOLTAGE** • Reconnect all the disconnected connectors. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Display PID VPWR_R using the M-MDS. (See PID/DATA MONITOR INSPECTION [REAR VEHICLE MONITORING SYSTEM].) • Is the voltage **B+**?	Yes	Go to the next step.
		No	Inspect the C/U IG1 15 A fuse. • If a fuse is burnt out: — Repair or replace the wiring harness which is shorted to ground. — Replace the fuse. • If a fuse is damaged: — Replace the fuse. • If the fuse is normal: — Repair or replace the wiring harness which has an open circuit. Go to the next step.

Step	Inspection		Action
6	**VERIFY THAT REPAIRS HAVE BEEN COMPLETED** • Reconnect all the disconnected connectors. • Reconnect the disconnected negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Clear the DTC for the rear vehicle monitoring control module using the M-MDS. (See CLEARING DTC [REAR VEHICLE MONITORING SYSTEM].) • Switch the ignition ON (engine off or on) and wait for **1.5 s or more**. • Perform the DTC inspection for the rear vehicle monitoring control module using the M-MDS. (See DTC INSPECTION [REAR VEHICLE MONITORING SYSTEM].) • Is DTC U3003:16 displayed?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the rear vehicle monitoring control module (RH), then go to the next step. (See REAR VEHICLE MONITORING CONTROL MODULE REMOVAL/INSTALLATION.)
		No	Go to the next step.
7	**VERIFY IF OTHER DTCs DISPLAYED** • Are any other DTCs displayed?	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [REAR VEHICLE MONITORING SYSTEM].)
		No	DTC troubleshooting completed.