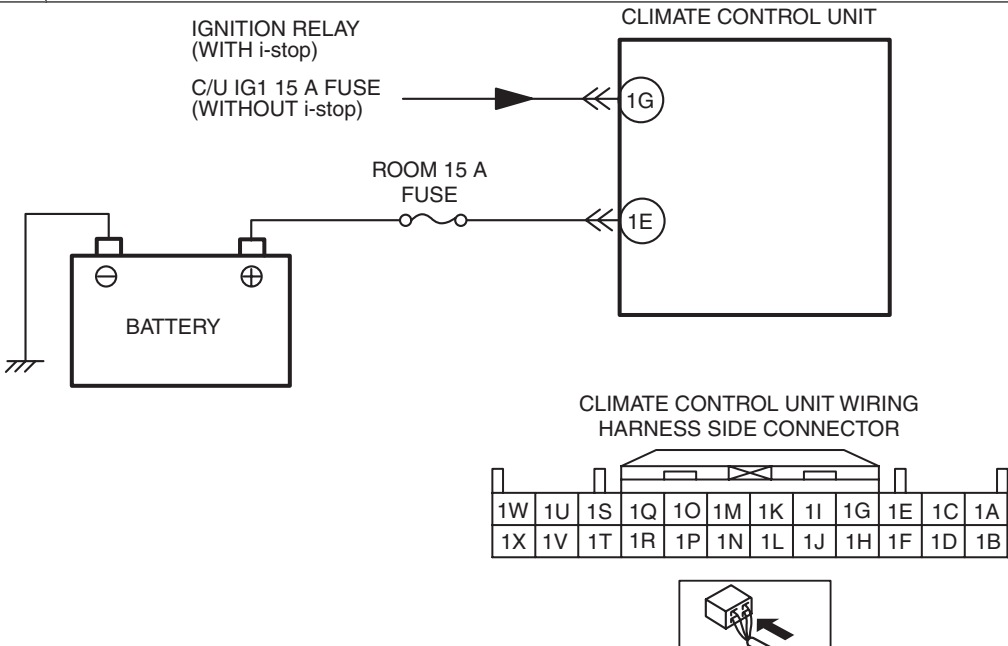


DTC U3003:16, U3003:17 [FULL-AUTO AIR CONDITIONER]

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System malfunction location	<ul style="list-style-type: none"> U3003:16: Climate control unit power supply circuit voltage below threshold (B+, IG1) (10 V or less) U3003:17: Climate control unit power supply circuit voltage above threshold (B+, IG1) (17.3 V or more)
Detection condition	Climate control unit power supply voltage is other than 10.1—17.2 V
Fail-safe	—
Possible cause	<ul style="list-style-type: none"> Generator system malfunction ROOM 15 A fuse malfunction Battery malfunction Climate control unit connector malfunction Open or short circuit to ground in wiring harness between battery positive terminal and climate control unit Climate control unit malfunction
	

Diagnostic Procedure

STEP	INSPECTION		ACTION
1	INSPECT PCM DTC (INSPECT GENERATOR CIRCUIT) <ul style="list-style-type: none"> Switch the ignition off. Connect the M-MDS to the DLC-2. Perform the PCM DTC inspection 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].) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (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 FUSE <ul style="list-style-type: none"> Switch the ignition off. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Remove the ROOM 15 A fuse. • Is the fuse normal?	Yes	Install the ROOM 15 A fuse, then go to the next step.
		No	Replace the ROOM 15 A fuse, then go to Step 8.

STEP	INSPECTION	ACTION	
3	INSPECT BATTERY <ul style="list-style-type: none"> Inspect the battery. (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See BATTERY INSPECTION [SKYACTIV-D 2.2].) Is the battery normal? 	Yes	Go to the next step.
		No	Replace/charge the battery, then go to Step 8.
4	INSPECT CLIMATE CONTROL UNIT <ul style="list-style-type: none"> Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Switch the ignition ON (engine off or on). Inspect the climate control unit terminal 1E. Is voltage normal? 	Yes	The system is normal at present. Go to the step 8.
		No	Go to the next step.
5	VERIFY CLIMATE CONTROL UNIT CONNECTOR CONDITION <ul style="list-style-type: none"> Switch the ignition off. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Disconnect the climate control unit connector. Inspect the connector and terminals (corrosion, damage, pin disconnection). Are the connector and terminals normal? 	Yes	Go to the next step.
		No	Repair/replace the connector or terminal. After repair procedure, go to the next step.
6	INSPECT CLIMATE CONTROL UNIT POWER SUPPLY CIRCUIT FOR SHORT CIRCUIT TO GROUND <ul style="list-style-type: none"> Disconnect the climate control unit connector. Inspect for continuity between climate control unit terminal 1E and body ground. Is there continuity? 	Yes	Repair the wiring harness, then go to Step 8.
		No	Go to the next step.
7	INSPECT CLIMATE CONTROL UNIT POWER SUPPLY CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> Inspect for continuity between climate control unit terminal 1E and battery positive terminal. Is there continuity? 	Yes	Go to the next step.
		No	Repair the wiring harness, then go to the next step.

STEP	INSPECTION	ACTION
8	INSPECT CLIMATE CONTROL UNIT <ul style="list-style-type: none"> • Reconnect the disconnected connectors. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Clear DTCs using the M-MDS. • Perform the climate control unit DTC inspection using the M-MDS. (See DTC DISPLAY [FULL-AUTO AIR CONDITIONER].) • Are DTCs U3003:16 or U3003:17 displayed? 	Yes
		Repeat the inspection from Step 1. <ul style="list-style-type: none"> • If the malfunction does not recur, go to the next step. • If the malfunction recurs, replace the climate control unit. (See CLIMATE CONTROL UNIT REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER].) Go to the next step.
9	VERIFY THAT NO OTHER DTCs ARE PRESENT <ul style="list-style-type: none"> • Verify other DTCs displayed. • Are any other DTCs output? 	No
		Go to the next step.
9	VERIFY THAT NO OTHER DTCs ARE PRESENT <ul style="list-style-type: none"> • Verify other DTCs displayed. • Are any other DTCs output? 	Yes
		Perform the corresponding DTC inspection.
		No
		DTC troubleshooting completed.