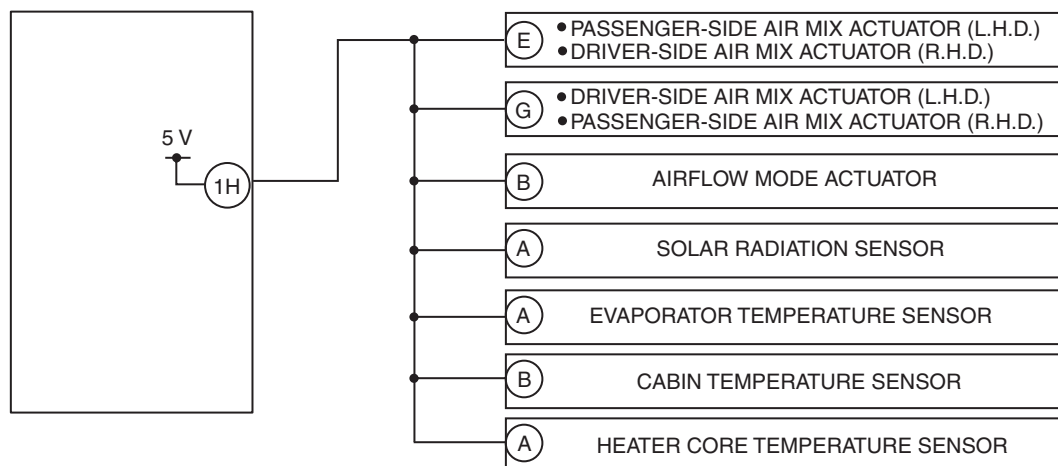


DTC U200D:11 [FULL-AUTO AIR CONDITIONER]

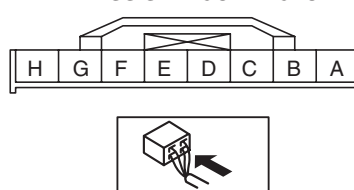
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System malfunction location	<ul style="list-style-type: none"> Climate control unit circuit voltage (+5V) circuit short to ground
Detection condition	<ul style="list-style-type: none"> Malfunction in wiring harness between climate control unit circuit voltage (+5V) and each sensor/actuator
Fail-safe	—
Possible cause	<ul style="list-style-type: none"> Connector or terminal malfunction Each sensor/actuator malfunction Short to ground in wiring harness between climate control unit and air mix actuator Short to ground in wiring harness between climate control unit and airflow mode actuator Short to ground in wiring harness between climate control unit and solar radiation sensor Short to ground in wiring harness between climate control unit and evaporator temperature sensor Short to ground in wiring harness between climate control unit and cabin temperature sensor Short to ground in wiring harness between climate control unit and heater core temperature sensor (with heater core temperature sensor) Climate control unit malfunction

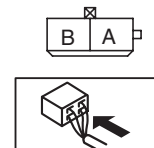
CLIMATE CONTROL UNIT



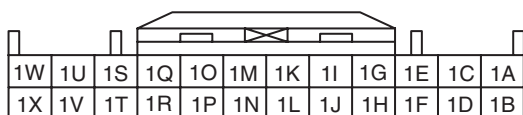
AIR MIX ACTUATOR WIRING HARNESS SIDE CONNECTOR



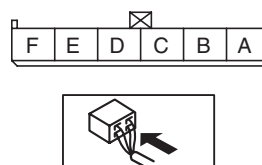
EVAPORATOR TEMPERATURE SENSOR WIRING HARNESS SIDE CONNECTOR



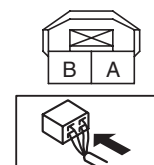
CLIMATE CONTROL UNIT WIRING HARNESS SIDE CONNECTOR



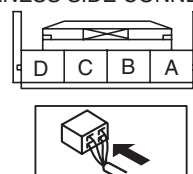
AIRFLOW MODE ACTUATOR WIRING HARNESS SIDE CONNECTOR



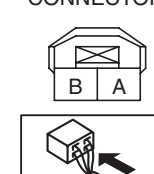
CABIN TEMPERATURE SENSOR WIRING HARNESS SIDE CONNECTOR



SOLAR RADIATION SENSOR WIRING HARNESS SIDE CONNECTOR



HEATER CORE TEMPERATURE SENSOR WIRING HARNESS SIDE CONNECTOR



Diagnostic Procedure

STEP	INSPECTION	ACTION	
1	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 connectors. • 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 malfunctioning vehicle wiring harness, connector, or terminal. After repair procedure, go to the next step.
2	VERIFY CONNECTOR CONDITION <ul style="list-style-type: none"> • Disconnect the following each sensor/actuator connectors. <ul style="list-style-type: none"> — Air mix actuator (See AIR MIX ACTUATOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER].) — Airflow mode actuator (See AIRFLOW MODE ACTUATOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER].) — Solar radiation sensor (See SOLAR RADIATION SENSOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER].) — Evaporator temperature sensor (See EVAPORATOR TEMPERATURE SENSOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER].) — Cabin temperature sensor (See CABIN TEMPERATURE SENSOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER].) — Heater core temperature sensor (See HEATER CORE TEMPERATURE SENSOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER].) • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Are the connector and terminals normal? 	Yes	Go to the next step.
		No	Replace the malfunctioning part. After replace procedure, go to the next step.

STEP	INSPECTION	ACTION	
3	INSPECT EACH SENSOR/ACTUATOR <ul style="list-style-type: none"> Inspect the following each sensor/actuator connectors. <ul style="list-style-type: none"> Air mix actuator (See AIR MIX ACTUATOR INSPECTION [FULL-AUTO AIR CONDITIONER].) Airflow mode actuator (See AIRFLOW MODE ACTUATOR INSPECTION [FULL-AUTO AIR CONDITIONER].) Solar radiation sensor (See SOLAR RADIATION SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER].) Evaporator temperature sensor (See EVAPORATOR TEMPERATURE SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER].) Cabin temperature sensor (See CABIN TEMPERATURE SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER].) Heater core temperature sensor (See HEATER CORE TEMPERATURE SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER].) Is it normal? 	Yes	Go to the next step.
		No	Replace the malfunctioning sensor/actuator. After repair procedure, go to the next step.
4	INSPECT EACH SENSOR/ACTUATOR CIRCUIT FOR SHORT TO GROUND <ul style="list-style-type: none"> Inspect for continuity between the following terminals (wiring harness-side) and body ground: <ul style="list-style-type: none"> Climate control unit 1H Is there continuity? 	Yes	Repair the wiring harness. Go to the next step.
		No	Go to the next step.
5	VERIFY THAT SAME DTC IS NOT OUTPUT AGAIN <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 the past malfunction from memory. Verify DTCs. Is DTC U200D:11 output? 	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.
		No	Go to the next step.
6	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.