

## List of Diagnostic Trouble Code (DTC)

HVAC SYSTEM (DIAGNOSTICS)

### 12. List of Diagnostic Trouble Code (DTC)

#### A: LIST

NOTE:

When the sunload sensor check is performed indoors or in the shade, it could be diagnosed as having an open circuit. Always check the sunload sensor in direct sunlight.

DTC	Item	Content of diagnosis	Note
B1601	In-Vehicle Sensor Short	In-vehicle air temperature sensor circuit is shorted.	<Ref. to AC(diag)-54, DTC B1601 IN-VEHICLE SENSOR SHORT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1602	In-Vehicle Sensor Open	In-vehicle air temperature sensor circuit is open.	<Ref. to AC(diag)-55, DTC B1602 IN-VEHICLE SENSOR OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1603	Evaporator Sensor Short	Post evaporator sensor circuit is shorted.	<Ref. to AC(diag)-56, DTC B1603 EVAPORATOR SENSOR SHORT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1604	Evaporator Sensor Open	Post evaporator sensor circuit is open.	<Ref. to AC(diag)-57, DTC B1604 EVAPORATOR SENSOR OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1605	Refrigerant Flow Sensor Circuit Open	Pressure sensor circuit is open.	*2 <Ref. to AC(diag)-58, DTC B1605 REFRIGERANT FLOW SENSOR CIRCUIT OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1606	Refrigerant Flow Sensor Circuit Short	Pressure sensor circuit is shorted.	*2 <Ref. to AC(diag)-60, DTC B1606 REFRIGERANT FLOW SENSOR CIRCUIT SHORT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1607	Sunload Sensor Short	Sunload sensor circuit is shorted.	*1 <Ref. to AC(diag)-61, DTC B1607 SUNLOAD SENSOR SHORT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1608	Sunload Sensor Open	Sunload sensor circuit is open.	*1, *2 <Ref. to AC(diag)-62, DTC B1608 SUNLOAD SENSOR OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1610	Airmix Door Actuator Potentiometer Circuit Open (Driver's)	Airmix door actuator potentiometer circuit is open.	<Ref. to AC(diag)-64, DTC B1610 AIRMIX DOOR ACTUATOR POTENTIOMETER CIRCUIT OPEN (DRIVER'S), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1611	Airmix Door Actuator Potentiometer Circuit Short (Driver's)	Airmix door actuator potentiometer circuit is shorted.	<Ref. to AC(diag)-66, DTC B1611 AIRMIX DOOR ACTUATOR POTENTIOMETER CIRCUIT SHORT (DRIVER'S), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1612	Airmix Door Actuator Lock (Driver's)	Mode door actuator is locked.	<Ref. to AC(diag)-67, DTC B1612 AIRMIX DOOR ACTUATOR LOCK (DRIVER'S), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1613	Airmix Door Actuator Potentiometer Circuit Open (Passenger's)	Airmix door actuator potentiometer circuit is open.	<Ref. to AC(diag)-69, DTC B1613 AIRMIX DOOR ACTUATOR POTENTIOMETER CIRCUIT OPEN (PASSENGER'S), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1614	Airmix Door Actuator Potentiometer Circuit Short (Passenger's)	Airmix door actuator potentiometer circuit is shorted.	<Ref. to AC(diag)-71, DTC B1614 AIRMIX DOOR ACTUATOR POTENTIOMETER CIRCUIT SHORT (PASSENGER'S), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1615	Airmix Door Actuator Lock (Passenger's)	Mode door actuator is locked.	<Ref. to AC(diag)-73, DTC B1615 AIRMIX DOOR ACTUATOR LOCK (PASSENGER'S), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

# List of Diagnostic Trouble Code (DTC)

HVAC SYSTEM (DIAGNOSTICS)

DTC	Item	Content of diagnosis	Note
B1620	Mode Door Actuator Potentiometer Circuit Open	Mode door actuator potentiometer circuit is open.	<Ref. to AC(diag)-75, DTC B1620 MODE DOOR ACTUATOR POTENTIOMETER CIRCUIT OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1621	Mode Door Actuator Potentiometer Circuit Short	Mode door actuator potentiometer circuit is shorted.	<Ref. to AC(diag)-77, DTC B1621 MODE DOOR ACTUATOR POTENTIOMETER CIRCUIT SHORT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1622	Mode Door Actuator Lock	Mode door actuator is locked.	<Ref. to AC(diag)-78, DTC B1622 MODE DOOR ACTUATOR LOCK, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1630	Rear Vent Door Actuator Potentiometer Circuit Open	Rear vent door actuator potentiometer circuit is open.	<Ref. to AC(diag)-80, DTC B1630 REAR VENT DOOR ACTUATOR POTENTIOMETER CIRCUIT OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1631	Rear Vent Door Actuator Potentiometer Circuit Short	Rear vent door actuator potentiometer circuit is shorted.	<Ref. to AC(diag)-82, DTC B1631 REAR VENT DOOR ACTUATOR POTENTIOMETER CIRCUIT SHORT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1632	Rear Vent Door Actuator Lock	Rear vent door actuator is locked.	<Ref. to AC(diag)-83, DTC B1632 REAR VENT DOOR ACTUATOR LOCK, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1635	Out Side Temperature Sensor Circuit Abnormality (Air Conditioner)	Ambient air temperature sensor circuit is abnormal.	<Ref. to AC(diag)-85, DTC B1635 OUT SIDE TEMPERATURE SENSOR CIRCUIT ABNORMALITY (AIR CONDITIONER), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1641	Refrigerant Flow Sensor Circuit Short	Refrigerant flow sensor circuit is shorted.	*2 <Ref. to AC(diag)-87, DTC B1641 REFRIGERANT FLOW SENSOR CIRCUIT SHORT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1642	Refrigerant Flow Sensor Circuit Open	Refrigerant flow sensor circuit is open.	*2 <Ref. to AC(diag)-88, DTC B1642 REFRIGERANT FLOW SENSOR CIRCUIT OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1643	Variable Flow Change Solenoid Duty Circuit Abnormal	Variable flow change solenoid duty circuit is open or shorted.	*2 <Ref. to AC(diag)-90, DTC B1643 VARIABLE FLOW CHANGE SOLENOID DUTY CIRCUIT ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1644	Refrigerant Not Sealed Drive Error	Compressor is rotated before filling refrigerant.	Displays when delivery mode only. <Ref. to AC(diag)-92, DTC B1644 REFRIGERANT NOT SEALED DRIVE ERROR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0001	CAN Communication Bus Off	CAN communication bus off	*2 <Ref. to AC(diag)-93, DTC U0001 CAN COMMUNICATION BUS OFF, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0002	CAN Communication Error	CAN communication error	*2 <Ref. to AC(diag)-93, DTC U0002 CAN COMMUNICATION ERROR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0028	Heater Control Panel Communication Error	Communication with heater control panel is faulty.	*2 <Ref. to AC(diag)-94, DTC U0028 HEATER CONTROL PANEL COMMUNICATION ERROR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

**NOTE:**

\*1: When the sunload sensor inspection is performed indoors or in the shade, it may be diagnosed as having an open circuit due to an insufficient light volume. In this case, check the sunload sensor at a location exposed to direct sunlight.

\*2: Displays current malfunction only.