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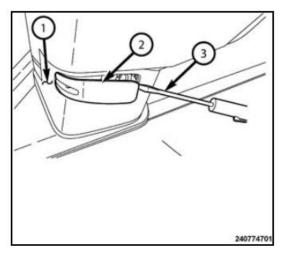


Case Number: S2223000063 Rev.B

Release Date: April 2023

Symptom/Vehicle Issue: Ambient Temperature Sensor Servicing.

Discussion: Part return analysis has revealed complete mirror assemblies are being replaced for ambient temperature faults or connector issues. The sensor is serviced separately as is the wiring harness connector. The ambient temp sensor is a sensor and cover assembly that snaps into the bottom of the left exterior mirror shown below. Refer to Service Library 24 - Heating and Air Conditioning / Controls / Sensor, Ambient Temperature for description, removal and installation information. Over repair may be subject to chargeback. Also see latest version of \$2208000080.



Ambient Temp Sensor

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechConnect, eCONTACT or Service Library entry if no solution is found.

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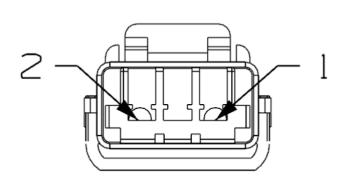
SENSOR-AMBIENT AIR TEMPERATURE

Full Repair Kit: 68248200AA	
No terminal repair kits have been identified.	

Removal Tools

A specific removal tool has not been identified.

End View



Pin Information

Cav	Circuit	Gauge	Color	Function
1	G31	0.35	BN/VT	AAT SIGNAL
1	G31	0.35	WH	AAT SIGNAL
1	G31	0.35	VT/GN	AAT SIGNAL
2	G931	0.35	BN/BU	SENSOR GROUND
2	G931	0.35	BK	SENSOR GROUND
2	G931	0.35	VT/BN	SENSOR GROUND

<<**NOTE>>>** If a repair is performed to the Ambient Air Temperature (AAT) Sensor wiring, the sensor is replaced, or the Body Control Module (BCM) connector is disconnected during testing to correct an active Diagnostic Trouble Code (DTC), the vehicle must be driven for a minimum of 5 minutes above 15 mph to update the AAT temp signal before the DTC will go stored and can be erased.

<<<NOTE>>> The AAT Sensor is an individually serviceable component. If the measured resistance from the AAT Sensor does not meet the values from the Technical Data section listed under the diagnostic flow chart for the DTC P0073, then only the sensor should be replaced and not the entire mirror assembly.

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P0073-AMBIENT AIR TEMPERATURE SENSOR CIRCUIT HIGH (MODULE, Powertrain ...

FEEDBACK	Θ	S	\oplus
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☐ TECHNICAL DATA - AMBIENT AIR TEMP SENSOR

Use the specification table below to check the Ambient Temperature Sensor. The values in the table show the approximate resistance values for the temperatures given. The actual resistance can vary +/- 10% form the values in the table. Typically, if the sensor is faulty the resistance value will be noticeably different from the specification in the table.

	AMBIENT AIR TEMP SENSOR - TEMPERATURE TO RESISTANCE CHART					
Ambient Temp - Celsius	Ambient Temp - Fahrenheit	Sensor Resistance				
-40°C	-40°F	345.26 kOhms	Lowest possible temperature reading			
-10°C	14°F	53.38 kOhms				
-5°C	23°F	40.89 kOhms				
0°C	32°F	31.56 kOhms				
5°C	41°F	24.55 kOhms				
10°C	50°F	19.24 kOhms				
15°C	59°F	15.22 kOhms	Logical temperature values			
20°C	68°F	12.13 kOhms				
25°C	77°F	9720 Ohms				
30°C	86°F	7780 Ohms				
35°C	95°F	6370 Ohms				
40°C	104°F	5200 Ohms				
150°C	302°F	181 Ohms	Highest possible temperature reading			

Technical Data From DTC P0073 in Service Library

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