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Document Information

Location: Hybrid / Electrical

Topic: McLaren Artura IPU DCDC Overtemperature

Condition: Intermittent

Diagnostic Trouble Codes:

IPU:

P0D324B - DC/DC Converter "A" Overtemperature - Over temperature

P0A0898 - DC/DC Converter status Circuit - Component or system overtemperature

Measure

If the following DTCs are observed, please read the Actual Values of the IPU DCDC Vout Sensors 1, 2 & 3 and determine if the values are plausible.

The temperature values should be very similar. If any of the temperatures show a large discrepancy or erratic behavior exceeding 70°C, the IPU will require replacing.

ECU	Signal	Value
P16_IPU	Vehicle Time	1743629735
P16_IPU	On-Board Charger Status	0
P16_IPU	DCDC Status	1
P16_IPU	DCDC Vout Sensor 2 Temperature	74.1616
P16_IPU	DCDC Vout Sensor 3 Temperature	23.0415
P16_IPU	On-Board Charger Boost Inrush Relay Status	0
P16_IPU	On-Board Charger Boost OK	0
P16_IPU	On-Board Charger LLC Output Voltage	1.20780

Actual Values showing temperature discrepancy

A typical indicator of the concern is the LTR fans running at full speed when the vehicle is in IS5 or charging via the OBC (Offboard Charger).

The concern may be intermittent, and a log may be required to capture the concern.

Please capture a log of the values listed below if the concern is not currently present or showing abnormal temperature readings in the Actual Values.

All values to record are:

- DCDC Vout Sensors 1

- DCDC Vout Sensors 2
- DCDC Vout Sensors 3
- DCDC Temperature Output
- PCB Track Temperature

Care Point - Please refer to KA-01661 MDS Actual Value Logging Guide if you are unfamiliar with the process of capturing an MDS log.

Once you have the log set up, please log the Vout Sensors under the following conditions:

1. Plug in the OBC and initiate vehicle charging
2. Switch on IS5
3. Monitor the sensor temperatures until the concern is presented

Please submit a Technical Request prior to ordering parts and attach recorded logs for review.

Parts Information

N/A

Attachments

N/A