

DRIVER'S AIRBAG RESISTANCE CHECK

Bulletin type:	Service Campaign
Reference number:	N/A
Campaign reference:	SCB 00 N 010 - V2
Attention:	Retailer Aftersales Managers, Retailer Service Managers, Retailer Service Advisors, Retailer Technicians, Retailer Parts Managers
Affected vehicles:	McLaren Elva, McLaren Speedtail
Situation:	The driver's airbag electrical circuit resistance may be out of tolerance due to partial engagement of the driver's airbag connectors
Procedure:	Action affected vehicles during next Retailer visit. Please refer to the information outlined in this document to complete the checks required
Date:	17 th March 2022

This bulletin will cover:

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1. Overview
 2. Procedure
 3. Warranty Information
 4. Affected Vehicles

1. Overview

Through continuous product quality monitoring, it has been identified that on certain vehicles, an unexpected resistance may be present in the driver's airbag circuit. To correct the issue, a resistance readout using the McLaren Diagnostic System (MDS) must be completed and compared against the correct resistance tolerance limits stated within this document.

If the driver's Airbag Resistance Values are found to be out of tolerance a Technical Request (TR) will need to be submitted before proceeding with a physically check of the driver's airbag connector.

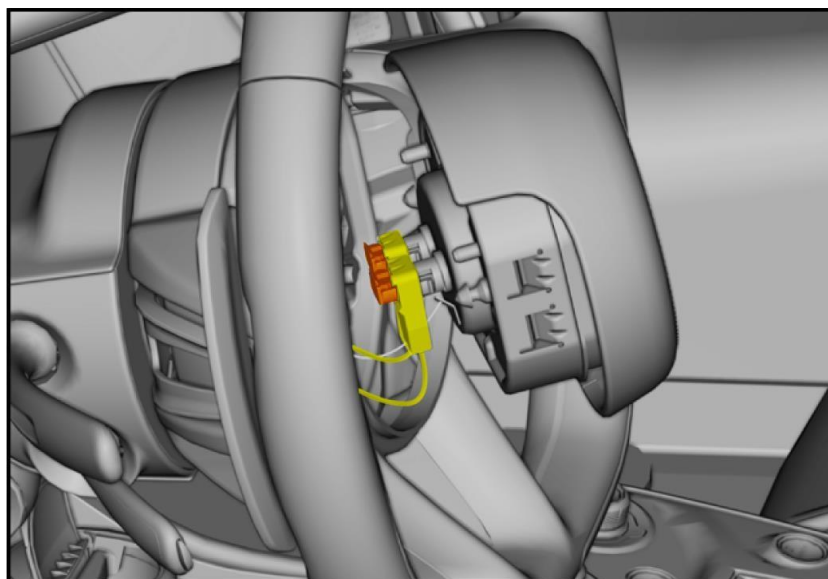


Image 1 - Driver Airbag Connectors (example taken from the Service Information System (SIS))

2. Procedure

2.1 Resistance Actual Values readout

To complete the required resistance check, please follow the steps below.

- MDS Driver's Airbag Resistance Actual Values Readout Check (all affected vehicles):

Step 1

Connect the MDS to the vehicle and carry out a scan

Step 2

Select the ORC module and navigate to the Actual Values tab

Step 3

In the Actual Values tab scroll down and locate the following Actual Values:

- Squib_Resistance_**AB1FD**_Read
- Squib_Resistance_**AB2FD**_Read

Step 4

Compare each value to the correct resistance tolerance limits stated in the table below:

ACTUAL VALUE NAME	CORRECT RESISTANCE TOLERANCE LIMITS
Squib_Resistance_ AB1FD _Read	Value must be between 2100 mOhm and 5600 mOhm
Squib_Resistance_ AB2FD _Read	Value must be between 2100 mOhm and 5600 mOhm

Table 1 - Correct Resistance Tolerance Limits

Step 5

If the Squib Resistance values displayed in MDS are within tolerance, take a screenshot of the MDS screen. Ensure the screenshot has captured the values in question clearly, name the file 'Correct Resistance Values - VIN' (where VIN is the vehicles VIN) and save it. Open the file to confirm that it is not corrupt. The screenshot will need to be attached to your warranty claim

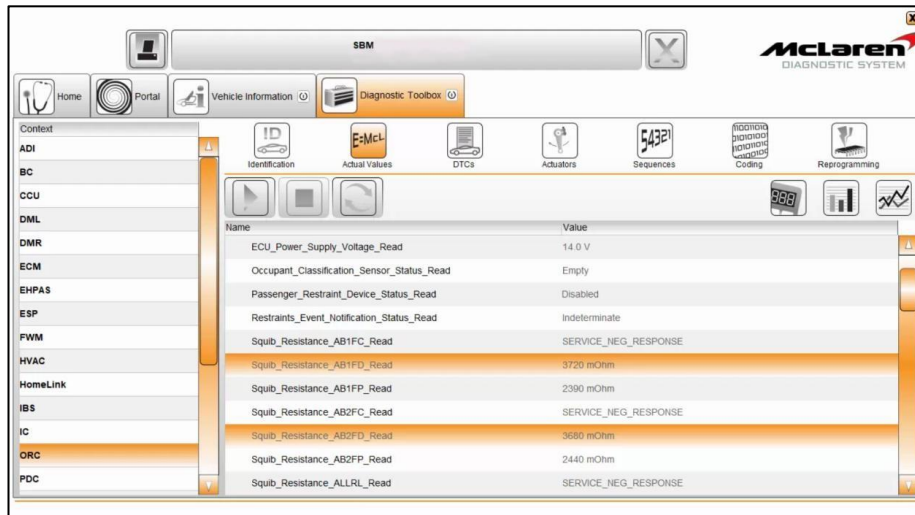


Image 2 - Example Screenshot of MDS Airbag Resistance Actual Value Location

- End of MDS Driver's Airbag Resistance Actual Values Readout Check procedure
2.1 Submitting a Technical Request (TR)

If the MDS Driver's Airbag Resistance Actual Values Readout Check resulted in values outside of tolerance (**not between 2100 mOhm and 5600 mOhm**), submit a Technical Request (TR).

Please carry out the following:

- Immediately submit a TR entitled **McLaren GT Driver's Airbag Resistance Check Failed** and select **High Priority**
- Take a screenshot of the MDS screen to capture the incorrect values. Ensure the screenshot has clearly captured the values in question, name the file 'Incorrect Resistance Values - VIN' (where VIN is the full vehicle VIN) and save it. Open the file to confirm that it is not corrupt
- Follow 'JA-RM-10N002-01-001 - Remove/Install Airbag - Steering Wheel' (McLaren Elva) or 'GA-RM-10N00201-001 - Remove/Install Airbag - Steering wheel' (McLaren Speedtail) on SIS to gain access to the driver's airbag connectors. Do **not** fully remove the airbag and do **not** disconnect the connectors
- Without disturbing the connectors take a clear photograph of the condition of the connectors including their locking tabs (secondary locking mechanism) as you found them. Name the photograph 'Airbag Connectors as found - VIN' (where VIN is the full vehicle VIN) and save it. Open the photograph to confirm that the file is not corrupt
- Attach the following to the TR:
 - The screenshot of the incorrect airbag resistance values
 - The photograph of the airbag connectors
- Await further instructions from the TR, which will be responded to with highest urgency

Care Point: While working to gain access to the airbag connectors take care not to disturb or alter the condition of assembly of the connectors. Ensure the locking tabs (secondary locking mechanism) of the connectors are not inadvertently pushed in or out whilst gaining access to the area.

If the TR advises you to proceed with the physical Disconnect - Check - Reconnect procedure of the airbag connectors, please carry out the following:

— Physical Driver's Airbag Disconnect - Check - Reconnect procedure:

Step 1

Disconnect the driver's airbag connectors and visually inspect them for any anomalies, then fully re-connect the connectors. Make sure both stages of the connectors (including secondary locking mechanism) are correctly locked and engaged. The connector may otherwise be installed, but not locked

Step 2

Take a clear photograph of the connectors (now with both locking stages fully engaged). Name the photograph 'Airbag Connectors after full reconnection – VIN' (where VIN is the full vehicle VIN) and save it. Open the photograph to confirm that the file is not corrupt

Step 3

Install the driver's airbag in reverse order

Step 4

Re-scan the vehicle with MDS and check the **AB1FD** and **AB2FD** Squib Resistance Actual Values again. The Squib Resistance Actual Values must now be within the correct resistance tolerance limits (**between 2100 mOhm and 5600 mOhm**) as stated in 'Table 1' (section 2.1, step 4) above

Step 5

Take a screenshot of the final values from the MDS screen. Ensure the screenshot has captured the values in question clearly, name the file 'Final Correct Resistance Values - VIN' (where VIN is the vehicles VIN) and save it. Open the file to confirm that it is not corrupt.

Step 6

Reply to the TR and attach:

1. The photograph of the driver's airbag connectors as found when accessed
2. The photograph of the driver's airbag connectors after disconnected and fully reconnected ready for driver's airbag re-installation
3. The screenshot showing the airbag resistance values within the tolerance limits

— End of Physical Driver's Airbag Connector Disconnect - Check - Reconnect procedure.

In the event that the Airbag Resistance Actual Values remain out of tolerance, update the TR accordingly and await further instructions.

Care Point: You must ensure that the MDS readout values are within the correct resistance tolerance limits when this campaign is completed

Care Point: Follow all Special Advice, Caution notes and Preparation Work as per Service Information System (SIS) when carrying out work on Airbag Units

Care Point: Ensure the full Vehicle VIN is visible in the screenshots and included in the screenshot file names

3. Warranty Information

Submit a claim to the McLaren Warranty department following completion of the work, using the following details. Ensure that the relevant screenshots have been attached correctly to the Warranty Claim.

MODEL	DESCRIPTION	REPAIR TIME
McLaren Elva & McLaren Speedtail	MDS Airbag Resistance Actual Values Readout	0.20*
McLaren Elva	Physical Driver's Airbag Connector Disconnect - Check - Reconnect	1.15**
McLaren Speedtail	Physical Driver's Airbag Connector Disconnect - Check - Reconnect	0.55**

* Standard labour claimed under this campaign.

** Only following authorisation to proceed via TR, please add an additional labour line in the claim for the respective work carried out at the time quoted in the table.

Care Point: The work instruction and related labour time may be different from work instructions in the Service Information System (SIS). When you do this work you must refer only to the advice in this bulletin.

4. Affected Vehicles

Affected vehicles will be flagged in the Retailer Portal when next opening a Workshop Visit related to the vehicle.

Your Regional Aftersales Manager will contact you with a list of affected vehicles.

Best regards,

If you have any questions, please speak to your Regional Aftersales Manager.

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