Driver's Airbag Resistance Checks

Bulletin type:	Service Campaign
Campaign reference:	00 N 010
Attention:	Retailer Aftersales Managers, Retailer Service Managers, Retailer Service Advisors, Retailer Technicians, Retailer Parts Managers
Affected vehicles:	McLaren GT, McLaren Elva, McLaren Speedtail
Situation:	The driver's airbag plug connection's secondary lock may not be fully engaged
Procedure:	Action affected vehicles during next Retailer visit. Please refer to the information outlined in this document to complete the checks required
Date:	16th December 2021

This bulletin will cover:

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 physical check of the airbag connectors must be completed.

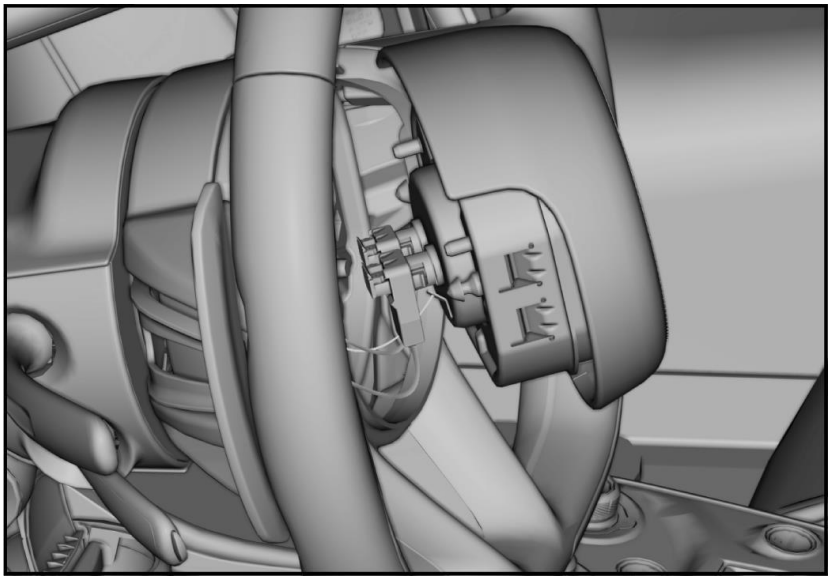

Image 1

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

2. Procedure

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

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

Step 1
Connect the MDS to the vehicle and carry out a scan

Step2
Select the ORC module and navigate to the Actual Values tab

Step3
In the Actual Values tab scroll down and locate the following Actual Values:

- Squib_Resisatnce_**AB1FD**_Read
- Squib_Resistacne_**AB2FD**_Read

Step4
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

Step5
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

- End of MDS Airbag Resistance Actual Values Readout Check procedure

If the MDS Airbag Resistance Actual Values Readout Check resulted in values outside of tolerance, proceed with the Physical Driver Airbag Connector Check outlined below:

- Physical Driver Airbag Connector Check (only for vehicles that have failed the MDS Airbag Resistance Actual Values Readout check above):

Step1
If the Squib Resistance Values displayed in MDS are not within tolerance (**between 2100 mOhm and 5600 mOhm)**, first 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 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.

Step2
Follow ‘FA-RM-10N002-01-001 - Remove/Install Airbag - Steering Wheel’ (McLaren GT), ‘JA-RM-10N002-01-001 - Remove/Install Airbag - Steering Wheel’ (McLaren Elva) or ‘GA-RM-10N002-01-001 - Remove/Install Airbag - Steering wheel’ (McLaren Speedtail) on SIS to gain access to the driver’s airbag connectors.

Step3
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 are correctly locked and engaged. The connector may be installed, but not locked.

Step4
Install the driver’s airbag in reverse order.

Step5
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’ above.

Step6
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. The screenshot will need to be attached to your warranty claim.

- End of Physical Driver Airbag Connector Check procedure.

In cases where the Airbag Resistance Actual Values remain out of tolerance, please raise a Technical Request (TR) for further advice.

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

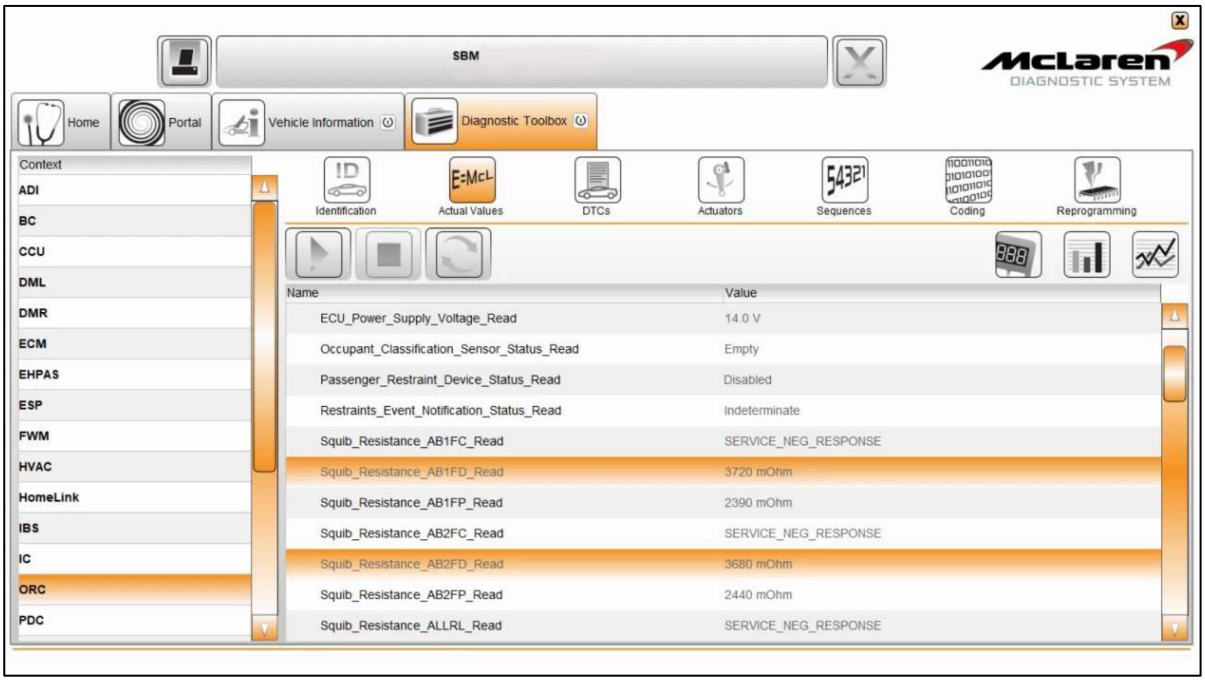

Image 2 - Example Screenshot of MDS Airbag Resistance Actual Value Location

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
ALL	MDS Airbag Resistance Actual Values Readout	0.20*
McLaren GT	Physical Driver Airbag Connector Check	0.30**
McLaren Elva	Physical Driver Airbag Connector Check	1.15**
McLaren Speedtail	Physical Driver Airbag Connector Check	0.55**

* Standard labour claimed under this campaign.
** In cases where the Physical Driver Airbag Connector Check was necessary, please add an additional labour line in the claim for the respective work carried out at the time quoted for the respective model.

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.

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

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