

Document Information

Location: Body & BIW – Active Aero

Topic: Airbrake warning displayed on the instrument cluster

Condition: Permanent

Diagnostic Trouble Codes:

PCCU:

C111492 - Airbrake Twist

C101B09 - Airbrake System Failure

Measure

In the event of a customer complaint for Airbrake Warning Message on the instrument cluster and the Airbrake Twist DTC C111492 is present in the PCCU, it is possible that the airbrake actuators are not running parallel to each other. This will cause increased drag and a twist condition in the airbrake panel.

To verify the parallelism of the airbrake actuators, carry out the following procedure;

1. Remove the airbrake panel fixing bolts of the right hand side actuator only.
2. Check if the holes of the airbrake panel with the hole of the actuator line up. If ok, reinstall the bolts and remove the bolts of the opposite side (left hand side).
3. If the holes do not line up as shown in the image below, is possible that the airbrake actuators are not parallel and require shimming.



Figure 1: Airbrake panel holes not aligned.

4. To do this insert shims between the airbrake actuator mounting and the subframe. Different thickness shims are available via SPC (screenshot below).

The screenshot displays a vehicle parts catalog interface. On the left is a navigation menu with categories such as '01 - BODY STRUCTURES', '02 - BODY SYSTEMS', '03 - A3 - CLOSURES', and '05 - AIRBRAKE'. The '05 - AIRBRAKE' category is selected. The main area shows a 3D model of an airbrake actuator assembly with several callout numbers: 021, 022, 024, 026, 028, 034, 035, and 025. Callout 028 is highlighted in blue. Below the model is a table listing parts for position 028.

POSITION	PART NUMBER	COLOR CODES	NOTES	SUPERCEDED PARTS	DESCRIPTION	QUANTITY	ADD TO BASKET	RESOLUTION CODE
028	11A4721CP				SHIM - 1.0MM - AIRBRAKE	2		
028	11A4723CP				SHIM - 2.0MM - AIRBRAKE	2		
028	11A4725CP				SHIM - 3.0MM - AIRBRAKE	2		

Figure 2: SPC screenshot showing airbrake actuators shims.

5. Once the actuators are shimmed correctly check the airbrake panel holes alignment. The image below shows a good alignment.



Figure 3: Airbrake panel holes aligned

6. If ok, reinstall the airbrake panel fixing bolts.
7. Run the Airbrake Calibration Sequence within the PCCU module.
8. Delete all DTCs.
9. Road test the vehicle and operate the airbrake panel as many times as you can.
10. If no warning message is present, the above procedure has been completed successfully.
11. If the DTC returns, please submit a Technical Request for further assistance.

Parts Information

Refer to SPC Body Systems / Airbrake section to identify correct shim thickness

Warranty Information

Resolution Category

Casual Part Number: N/A

Casual Part Name: N/A

Casual Issue: N/A

Rectification: N/A

Time: N/A

Attachments

N/A

KA Updates Information

N/A

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