
Fault code for short circuit to ground stored in AWD_MFA2 - N15/17 - all-wheel drive (transfer case)

Topic number	LI35.31-P-072106
Version	1
Function group	35.31 - Rear axle center assembly
Date	11.12.2020
Validity	Model series 177, 247 and 118 with code M005 4MATIC. Not valid for A45 and CLA45 AMG variants.
Reason for change	

Complaint

The following fault codes may be stored in the all-wheel drive control unit AWD_MFA2 - N15/17:

- P148311 Position sensor in 'transfer case' actuator has malfunction. There is a short circuit to ground.
- P148211 'Transfer case' actuator has malfunction. There is a short circuit to ground.
- P148412 Temperature sensor in 'transfer case' actuator has malfunction. There is a short circuit to positive.
- P148411 Temperature sensor in 'transfer case' actuator has malfunction. There is a short circuit to ground.

Please note:

The fault code does not affect the ability to drive the vehicle or bring it to a safe stop

Cause

Connections in wiring harness of all-wheel drive control unit AWD_MFA2

Remedy

Check contacts on connector coupling of all-wheel drive control unit AWD_MFA2 and on rear axle differential and repair if necessary.

Check wiring harnesses. See attachment for example.

If repeat complaints occur, contact product support.

Do not replace the all-wheel drive control unit AWD_MFA2 - or other components!

Attachments

File	Description
Beispiel Bilder Leitungssatz MFA II HAG.pdf	Beispiel Bilder Leitungssatz/ Example pictures of wiring harness

Symptoms

Power transmission > Transfer case > Function > Electrical fault/Fault code

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
			5419874	Connector/line for 4MATIC control unit - contact fault/open circuit