

## Communication codes with control unit AWD\_M-FA2 - N15/17 - All-wheel drive (transfer case)

---

Topic number	LI35.31-P-072107
Version	2
Function group	35.31 - Rear axle center assembly
Date	6/7/21
Validity	Model series 177, 247 and 118 with code M005 4MATIC. Not valid for A45 and CLA45 AMG variants.
Reason for change	Remedial action updated

---

### Complaint

Communication codes with the all-wheel drive control unit AWD\_MFA2 - N15/17 may be stored in the powertrain, engine and ESP control units.

Possible fault code:

- CPC\_NG U011D87 Error communicating with 'All-wheel drive' control unit. The message is missing.
- MED41 U011D00 Error communicating with 'All-wheel drive' control unit.
- ESP177 U0102FE Error communicating with transfer case.

### Cause

Message from all-wheel drive control unit AWD\_MFA2 - N15/17, the control unit hangs up.

With ignition ramp-up, communication between all-wheel drive control unit AWD\_MFA2 - N15/17 and various control units may be lost.

If the control unit hangs up, communication with other CAN subscribers is no longer possible and the instrument cluster message "4MATIC unavailable" is displayed.

The cause is software

### Remedy

Testing/processing must be carried out in the following stages:

1. Check contacts on connector coupling to all-wheel drive control unit AWD\_MFA2 and repair if necessary.
2. Reset all-wheel drive control unit AWD\_MFA2 by disconnecting the circuit 30 power supply at control unit AWD\_MFA2 - N15/17.

# XENTRY TIPS

---

3. Install new boot software on all-wheel drive control unit AWD\_MFA2.

**Note:** To update to the new boot software, add-on 19151 must be installed for XENTRY version 12/20 and add-on 19152 for version 03/21; alternatively, use a later version.

If needed, a check can be carried out by looking at the ID screen of the AWD\_MFA2.

If doing so, observe the "Boot SW" line: The old boot software has the ID 17/42 000, the new boot software 21/11 000.

See example picture in the attachment.

4. If concern re-occurs, the all-wheel drive control unit AWD\_MFA2 - N15/17 must be replaced.

When all-wheel drive is inactive, all other functions remain fully functional.

This will not cause any hardware issues.

Attachments	
File	Description
<a href="#">Kontrolle der Boot-Software.pdf</a>	

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

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			5465152	4MATIC control unit does not operate correctly