

MBUX multimedia system: Navigation cannot be activated, central display black, MBUX delayed operation

Topic number	LI82.85-P-070544
Version	6
Function group	82.85 Navigation and Communication systems
Date	10-26-2020
Validity	Model series 118, 167, 177, 247, and 253 with code 548/549
Reason for change	Remedy updated
Reason for block	

Complaint:

The customer may note the following complaints:

- The central display may be black with no welcome animation shown and may remain black through the entire drive cycle, no audio will be present. The instrument cluster display will remain operational.
- The navigation menu of the MBUX multimedia system (A26/17) cannot be activated. The message "activating" is shown permanently.
- MBUX start-up and operation may be severely delayed and may not respond quickly to user input
- The hardware and software object numbers may not be present in the MBUX multimedia system (A26/17) control unit log or initial quick test

Attachments	
File	Description
HDD missing software object numbers.jpg	MBUX multimedia system (A26/17) missing software object numbers

Cause:

MBUX multimedia system (A26/17) HDD damage.

Remedy:

Connect the vehicle to XENTRY diagnosis and check the status of the hard drive using the MBUX multimedia system (A26/17) control unit log. The values "ReallocatedSectorsID05" and "PendingSectorsIDC5" can be found under "Memory" (USB storage device/Hard disk) (see Attachment). Both of these values must be less than 5. If one of the values is greater than or equal to 5 (i.e. PendingSectorsIDC5:8), the MBUX multimedia system (A26/17) HDD is irreparably damaged and must be replaced. See related document LI82.85-P-071394 for more information.

NOTE: If a control unit update or initial start-up is attempted on the MBUX multimedia system (A26/17) XENTRY diagnosis will automatically check the status of the hard drive. If the hard drive is determined to have too many damaged sectors XENTRY diagnosis will recommend a replacement of the control unit (see LI82.85-P-071394).

Attachments

XENTRY TIPS

File	Description
HDD smart_data edited.jpg	HDD smart data screenshot

Symptoms
Communication/information / Communication / Navigation / Navigation - Function / Driving directions incorrect/navigation system imprecise
Communication/information / Entertainment / Overall system/system error / System fails to power up, display dark
Communication/information / Entertainment / Overall system/diagnosis / Flash abort

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			53306 T6	

Attachments

HDD smart_data edited.jpg:

Memory (USB storage device/Hard disk)

USB interface "Multimedia connection unit"	Yes	USB interface "Smartphone connection"	Yes
USB interface "DSRC"	No	USB interface "CI+"	Yes
Type of hard disk	HGST HEJ423220H9E300	Serial number	F6310144JG9NBP
Free memory space	OK	Free memory space	103136.00MByte
HDD smart-data (only for development-propose)	ReallocatedSectorsID05: 0 PowerOnHoursID09: 356315 PowerOFFCounterIDC0: 158 PendingSectorsIDC5: 0 UDMACRCErrCountIDC7: 0		

If either of these values are five or greater, replace the MBUX control unit

HDD missing software object numbers.jpg:

A26/17 - MBUX multimedia system (Head unit) -✓-			
Model	Part number	Supplier	Version
Hardware	177 901 17 03	Harman / Becker	18/17 000
Diagnosis identifier	00F114	Control unit variant	HU6_High_FreshUp1_4