

LI82.62-P-050505 - Navigation complaints, poor GPS/SAT reception

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XENTRY

TIPS



Mercedes-Benz



- Navigation complaints, poor GPS/SAT reception -

Topic number	LI82.62-P-050505
Version	5
Design group	82.62 Loudspeakers, amplifiers, antennas
Date	07-18-2011
Validity	Model 204 with Audio 50 (code 511 or 525) or COMAND (code 512 or 527) as of production date 01.01.2009 (as of VIN #A263639, VIN #F309698, VIN #R068443) Model 207 with Audio 50 (code 511 or 525) or COMAND (code 512 or 527) Model 221 with COMAND (code 527) without glass roof (code 413) as of production date 01.01.2009 (as of VIN #A280297) Model 212.0/2 with Audio 50 (code 511 or 525) or COMAND (code 512 or 527) up to and including model year 2010 (code 800) Model 212.1 with Audio 50 (code 511 or 525) or COMAND (code 512 or 527)
Reason for change	Part numbers revised and complaint text supplemented.

Complaint

Poor GPS/SAT reception or none at all.

Faulty location finding (vehicle location does not match position displayed in navigation system).

"No Service" in head unit display (with SDARS only).

Affects antennas with the part numbers:

A204 820 6575

A204 820 6675

A204 820 6875

A204 820 7075

A204 820 7275

A204 820 7375

A204 820 7675

A221 820 5675
 A221 820 5775
 A221 820 5875
 A221 905 0136
 A207 820 1075
 A207 820 1375

Cause

Electrical oscillation of the antenna due to:

1. Loose antenna threaded connection
2. Unfavorable routing of lines
3. Feedback due to unconnected telephone line in vehicles without comfort telephony (code 386), stationary heater (code 228) or mBrace (code 359)

Note:

Possible fault codes stored in HU 94D6, 94D8; in SDARS D241, D242 (models 204, 207, 212) or D302, D303 (model 221).

Remedy

1. Check torque of antenna threaded connection. Tighten to 3.5 Nm, leave to settle for a short time and then torque again.
2. Use self-adhesive felt to fasten to the roof the GPS line (3 bordeaux-colored rings) towards the rear and the telephone line (2 yellow rings) towards the right side of the vehicle at an angle of approx. 90° to each other away from the mounting clip (see picture "Routing of lines on antenna").
 In USA vehicles do the same with the SDARS line (1 blue ring).
3. In vehicles without comfort telephony (code 386), stationary heater (code 228) or mBrace (code 359), cut off the unconnected telephone line (2 yellow rings) as short as possible (see picture "Cutting telephone line") and remove the line. Here too, check the torque of the threaded connection again (see 1) and fasten the GPS line to the roof as described under 2.

File	Designation
Bild Telefonleitung abtrennen.JPG.jpg	Cutting telephone line (2 yellow rings)
Leitungsverlegung Antenne.jpg	Routing of lines illustrated on a GPS/TEL/SDARS antenna

Symptoms

Symptom
Communication/information / Communication / Navigation / Navigation - Function / No satellite reception
Communication/information / Communication / Navigation / Navigation - Function / Driving directions incorrect/navigation system imprecise
Communication/information / Communication / Navigation / Navigation - Function / Route guidance system interrupts
Communication/information / Communication / Navigation / Navigation - Function / Route calculation very slow
Communication/information / Communication / Navigation / Navigation - Function / Route guidance incorrect/implausible

Control unit/fault code

Control unit	Fault code	Fault code description
Audio / COMAND - Audio or COMAND (A2 - A2/56 - A40/3) (HU_204) (GLK (204),C (204),E (212),E (207))	94D6	The GPS antenna has a short circuit to ground.
Audio / COMAND - Audio or COMAND (A2 - A2/56 - A40/3) (HU_204) (GLK (204),C (204),E (212),E (207))	94D8	The GPS antenna has an open circuit. (not ECE-COMAND)
SDAR - Satellite digital audio radio (N87/5) (SDAR221) (GLK (204),C (204),E (212),E (207))	D241	The SDAR antenna has an open circuit.
SDAR - Satellite digital audio radio (N87/5) (SDAR221) (GLK (204),C (204),E (212),E (207))	D242	The SDAR antenna has a short circuit.
COMAND (TGW) (S (221))	D302	The cable to the GPS antenna has a short circuit. ([HU_ECE_*])
COMAND (TGW) (S (221))	D303	The cable to the GPS antenna has an open circuit. ([HU_ECE_*])

Operation numbers/damage codes

Op. no.	Time	Damage code	Note
Operation text			
		8285838	For disrupted GPS reception
		8201V53	For disrupted SAT reception

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