

Disturbed antenna signal

Topic number	LI82.62-P-063411
Version	3
Design group	82.62 Loudspeakers, amplifiers, antennas
Date	11-30-2016
Validity	Model 205 left-hand drive vehicle, chassis number range: 1F170773, 1F240099, 1F250355, 1F274926, 1F283033 to 1F302200, 5M000049 to 5M000144 Model 205 right-hand drive vehicle, chassis number range: 2F101136, 2F284906 to 2F299174, 6L011731 to 6L011832 Model 253 left-hand drive vehicle, chassis number range: 1F007369, 1F028686 to 1F033471, 5V000073 to 5V000096 Model 253 right-hand drive vehicle, chassis number range: 2F028950 to 2F033840
Reason for change	Remedy: Text added "Replace the lines." Validity: Model 253 LHD vehicle in the chassis number range the chassis number has been corrected from "1F03347" to "1F033471".
Reason for block	

Complaint:

Disturbed signal of diverse antennas (individual or multiple complaints possible):

- Radio antenna
- Bluetooth antenna
- GPS antenna
- SDARS antenna
- Telephone function antenna
- Hermes telephony antenna
- GPS emergency call antenna
- Emergency call telephone function antenna

Cause:

Shielding of HF (high-frequency) lines/ antenna lines.

The aluminum foil inside the line may not surround the entire cross section of the line as the foil has been compressed.

Remedy:

The HF (high-frequency) lines and antenna lines cannot be repaired. Replace the lines.

A list of affected control units (connectors, pins) with wiring harness part numbers is attached.

Symptoms
Communication/information / Entertainment / Radio / Poor reception

XENTRY TIPS

Communication/information / Entertainment / Radio / Nonfunctional
Communication/information / Communication / Telematics service / Emergency call / Poor reception
Communication/information / Entertainment / Video TV/DVD / Poor image quality
Communication/information / Communication / Mobile phone / Telephone / Dropped calls
Communication/information / Communication / Mobile phone / Telephone / Poor understanding
Communication/information / Communication / Mobile phone / Telephone / Other party cannot be heard
Communication/information / Communication / Mobile phone / Telephone / Call cannot be connected
Communication/information / Communication / Mobile phone / Telephone / Driver can be poorly/hardly heard
Communication/information / Communication / Mobile phone / Telephone / Person on other end can be poorly/hardly heard
Communication/information / Communication / Telematics service / Emergency call / No/faulty vehicle position transferred
Communication/information / Communication / Telematics service / Emergency call / Cannot connect call
Communication/information / Communication / Telematics service / Emergency call / No/faulty vehicle data transferred
Communication/information / Communication / Telematics service / Emergency call / Poor speech quality
Communication/information / Communication / Mobile phone / Telephone / No/poor reception
Communication/information / Entertainment / Radio / No audio
Communication/information / Entertainment / Radio / Bad sound quality
Communication/information / Communication / Mobile phone / Bluetooth / Bluetooth data communication / Bluetooth malfunction
Communication/information / Communication / Telematics service / Locating services / Vehicle position/vehicle locating / No satellite reception
Communication/information / Communication / Telematics service / Emergency call / Other party cannot be heard
Communication/information / Communication / Telematics service / Locating services / Vehicle position/vehicle locating / No/faulty vehicle position transferred
Communication/information / Communication / Telematics service / Locating services / Vehicle position/vehicle locating / Cannot connect call
Communication/information / Communication / Mobile phone / Bluetooth / Bluetooth contact plate / Telephone pairing not possible
Communication/information / Communication / Mobile phone / Bluetooth / Bluetooth contact plate / Connection abort
Communication/information / Communication / Mobile phone / Bluetooth / Bluetooth contact plate / Authorizing fault
Communication/information / Entertainment / Digital radio/Satellite digital audio radio / No reception
Communication/information / Entertainment / Bluetooth audio streaming / Cyclical misfire
Communication/information / Entertainment / Bluetooth audio streaming / Sporadic misfire
Communication/information / Entertainment / Bluetooth audio streaming / Crackling/cracking noise

Control unit/fault code		
Control unit	Fault code	Fault text
A2 / A40/3 / A26/17 - Audio or COMAND (HU5_ENTRY) (GLC (253))	B142C11	Radio antenna 1 has a malfunction. There is a short circuit to ground.
A2 / A40/3 / A26/17 - Audio or COMAND, A40/3 / A26/17	B142C11	Radio antenna 1 has a malfunction. There is a short circuit to ground.

XENTRY TIPS

- Audio or COMAND (Audio) (HU5)		
A2 / A40/3 / A26/17 - Audio or COMAND, A40/3 / A26/17 - Audio or COMAND (Audio) (HU5) (C (205))	B142C12	Radio antenna 1 has a malfunction. There is a short circuit to positive.
A2 / A40/3 / A26/17 - Audio or COMAND, A40/3 / A26/17 - Audio or COMAND (Audio) (HU5)	B142C13	Radio antenna 1 has a malfunction. There is an open circuit.
A2 / A40/3 / A26/17 - Audio or COMAND, A40/3 / A26/17 - Audio or COMAND (Audio) (HU5)	B142D11	Radio antenna 2 has a malfunction. There is a short circuit to ground.
A2 / A40/3 / A26/17 - Audio or COMAND, A40/3 / A26/17 - Audio or COMAND (Audio) (HU5)	B142D13	Radio antenna 2 has a malfunction. There is an open circuit.
A2 / A40/3 / A26/17 - Audio or COMAND, A40/3 / A26/17 - Audio or COMAND (Audio) (HU5)	B142E11	The GPS antenna has a malfunction. There is a short circuit to ground.
A2 / A40/3 / A26/17 - Audio or COMAND, A40/3 / A26/17 - Audio or COMAND (Audio) (HU5)	B142E13	The GPS antenna has a malfunction. There is an open circuit.
A2 / A40/3 / A26/17 - Audio or COMAND, A40/3 / A26/17 - Audio or COMAND (Audio) (HU5)	B1F9411	The Bluetooth® antenna has a malfunction. There is a short circuit to ground.
A2 / A40/3 / A26/17 - Audio or COMAND, A40/3 / A26/17 - Audio or COMAND (Audio) (HU5)	B1F9413	The Bluetooth® antenna has a malfunction. There is an open circuit.
A2 / A40/3 / A26/17 - Audio or COMAND, A40/3 / A26/17 - Audio or COMAND (Audio) (HU5)	B1FE213	The antenna of control unit 'Electronic Toll Collection System (ETC)' has a malfunction. There is an open circuit.
A2 / A40/3 / A26/17 - Audio or COMAND (HU5_ENTRY) (GLC (253))	B142C12	Radio antenna 1 has a malfunction. There is a short circuit to positive.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B149911	TV antenna 1 has a malfunction. There is a short circuit to ground.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B149912	TV antenna 1 has a malfunction. There is a short circuit to positive.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B149913	TV antenna 1 has a malfunction. There is an open circuit.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B149B11	TV antenna 2 has a malfunction. There is a short circuit to ground.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B149B12	TV antenna 2 has a malfunction. There is a short circuit to positive.

XENTRY TIPS

A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B149B13	TV antenna 2 has a malfunction. There is an open circuit.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B149D11	TV antenna 3 has a malfunction. There is a short circuit to ground.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B149D12	TV antenna 3 has a malfunction. There is a short circuit to positive.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B149D13	TV antenna 3 has a malfunction. There is an open circuit.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B158A11	The band III antenna has a malfunction. There is a short circuit to ground.
A2 / A40/3 / A26/17 - Audio or COMAND (HU5_ENTRY) (GLC (253))	B142C13	Radio antenna 1 has a malfunction. There is an open circuit.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B158A12	The band III antenna has a malfunction. There is a short circuit to positive.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B158A13	The band III antenna has a malfunction. There is an open circuit.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B158B11	Band III antenna 2 has a malfunction. There is a short circuit to ground.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B158B12	Band III antenna 2 has a malfunction. There is a short circuit to positive.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B158B13	Band III antenna 2 has a malfunction. There is an open circuit.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B158C11	The L-band antenna has a malfunction. There is a short circuit to ground.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B158C12	The L-band antenna has a malfunction. There is a short circuit to positive.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B158C13	The L-band antenna has a malfunction. There is an open circuit.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B158D11	The antenna of the satellite radio has a malfunction. There is a short circuit to ground.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B158D12	The antenna of the satellite radio has a malfunction. There is a short circuit to positive.
A2 / A40/3 / A26/17 - Audio or COMAND (HU5_ENTRY) (GLC (253))	B142D11	Radio antenna 2 has a malfunction. There is a short circuit to ground.
A90/4 - Digital Audio Broadcasting (DAB) (TB5_DAB)	B158D13	The antenna of the satellite radio has a malfunction. There is an open circuit.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B149911	TV antenna 1 has a malfunction. There is a short circuit to ground.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B149912	TV antenna 1 has a malfunction. There is a short circuit to positive.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B149913	TV antenna 1 has a malfunction. There is an open circuit.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B149B12	TV antenna 2 has a malfunction. There is a short circuit to positive.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B149B13	TV antenna 2 has a malfunction. There is an open circuit.

XENTRY TIPS

A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B149D11	TV antenna 3 has a malfunction. There is a short circuit to ground.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B149D12	TV antenna 3 has a malfunction. There is a short circuit to positive.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B149D13	TV antenna 3 has a malfunction. There is an open circuit.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B158A11	The band III antenna has a malfunction. There is a short circuit to ground.
A2 / A40/3 / A26/17 - Audio or COMAND (HU5_ENTRY) (GLC (253))	B142D13	Radio antenna 2 has a malfunction. There is an open circuit.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B158A12	The band III antenna has a malfunction. There is a short circuit to positive.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B158A13	The band III antenna has a malfunction. There is an open circuit.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B158B11	Band III antenna 2 has a malfunction. There is a short circuit to ground.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B158B12	Band III antenna 2 has a malfunction. There is a short circuit to positive.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B158B13	Band III antenna 2 has a malfunction. There is an open circuit.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B158C11	The L-band antenna has a malfunction. There is a short circuit to ground.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B158C13	The L-band antenna has a malfunction. There is an open circuit.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B158C12	The L-band antenna has a malfunction. There is a short circuit to positive.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B158D11	The antenna of the satellite radio has a malfunction. There is a short circuit to ground.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B158D12	The antenna of the satellite radio has a malfunction. There is a short circuit to positive.
A2 / A40/3 / A26/17 - Audio or COMAND (HU5_ENTRY) (GLC (253))	B142E11	The GPS antenna has a malfunction. There is a short circuit to ground.
A90/4 - Tuner unit (TV) (TEH) (TB5_TV_SDARS)	B158D13	The antenna of the satellite radio has a malfunction. There is an open circuit.
N112/2 - Communicati- on module 'Telematics services' (KOMO) (COM222)	B142E00	The GPS antenna has a malfunction. _
N112/2 - Communicati- on module 'Telematics services' (KOMO) (COM222)	B142E11	The GPS antenna has a malfunction. There is a short circuit to ground.
N112/2 - Communicati- on module 'Telematics services' (KOMO) (COM222)	B142E12	The GPS antenna has a malfunction. There is a short circuit to positive.
N112/2 - Communicati- on module 'Telematics services' (KOMO) (COM222)	B142E31	The GPS antenna has a malfunction. The signal is not present.

XENTRY TIPS

A2 / A40/3 / A26/17 - Audio or COMAND (HU5_ENTRY) (GLC (253))	B142E13	The GPS antenna has a malfunction. There is an open circuit.
A2 / A40/3 / A26/17 - Audio or COMAND (HU5_ENTRY) (GLC (253))	B1F9411	The Bluetooth® antenna has a malfunction. There is a short circuit to ground.
A2 / A40/3 / A26/17 - Audio or COMAND (HU5_ENTRY) (GLC (253))	B1F9413	The Bluetooth® antenna has a malfunction. There is an open circuit.

Parts

Attachments	
File	Description
Wiring Harness Chart Gl.pdf	Affected control units (Connectors,Pins) with part number

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			51128 74	K/Z*, toll system antenna/receiver
			51243 74	K/Z*, digital radio antenna
			59401 74	K/Z*, GPS antenna
			59712 74	K/Z*, Bluetooth(R) antenna
			59H0R 74	K/Z*, left outside mirror telephone antenna
			59776 74	K/Z*, emergency call system/telematics services communications module antenna
			59W0R 74	K/Z*, right outside mirror telephone antenna