

High Beam Assist sporadically inoperative

Topic number	LI82.10-P-053439
Version	3
Design group	82.10 Exterior lights
Date	09-13-2013
Validity	MODEL 204.###, 212.###, 207.###, 221.###, 216.###, 218.###, 166.### with SA code 608 (High Beam Assist) and not 513/476/238 Affected production period: 01.08.2010 - 31.01.2011 or 01.05.2011 - 30.08.2011
Reason for change	Title adjusted
Reason for block	

Complaint:

When the High Beam Assist is activated a "High Beam Assist inoperative" message appears in the instrument cluster.

Switch-on conditions for High Beam Assist:

- High Beam Assist in instrument cluster menu "On"
- Multifunction switch set to high beam position
- Light sensor detects "Night"

Cause:

In isolated circumstances, it can happen that the multifunction camera fails to log into the data bus CAN in the temperature ranges (- 5° C to + 5° C and 20 °C to 30 °C). A fault code entry is not made. Following an ignition cycle and a change in component temperature, the system is operational again.

Remedy:

Replace MFK and calibrate with the aid of the "calibration target for Night View Assist" special tool (Romess Rogg GmbH, item no. 09840-10).

Symptoms
Overall vehicle / Lighting / Exterior lights / Driving lights / Adaptive Highbeam Assist / High beams do not switch on
Overall vehicle / Lighting / Exterior lights / Driving lights / Adaptive Highbeam Assist / High beams switch off without obvious cause
Overall vehicle / Lighting / Exterior lights / Driving lights / Adaptive Highbeam Assist / High beams temporarily unavailable
Overall vehicle / Lighting / Exterior lights / Driving lights / Adaptive Highbeam Assist / Display currently unavailable
Overall vehicle / Lighting / Exterior lights / Driving lights / Adaptive Highbeam Assist / Warning message in instrument cluster

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other ma-

XENTRY

							ke part
A 000 905 03 38			Multifunction camera	1	Multifunction camera for code 608 (High Beam Assist)	X	

Work units				
Op. no.	Operation text	Time	Damage code	Note
			8230E 73	Multifunction camera

Validity		
Vehicle	Engine	Transmission
166.024	*	*
166.057	*	*
204.000	*	*
204.001	*	*
204.002	*	*
204.003	*	*
204.006	*	*
204.007	*	*
204.008	*	*
204.022	*	*
204.023	*	*
204.025	*	*
204.041	*	*
204.044	*	*
204.045	*	*
204.046	*	*
204.047	*	*
204.048	*	*
204.049	*	*
204.052	*	*
204.054	*	*
204.055	*	*
204.056	*	*
204.057	*	*
204.065	*	*
204.077	*	*
204.080	*	*
204.081	*	*
204.082	*	*

XENTRY

204.085	*	*
204.087	*	*
204.088	*	*
204.089	*	*
204.092	*	*
204.200	*	*
204.201	*	*
204.202	*	*
204.203	*	*
204.207	*	*
204.208	*	*
204.222	*	*
204.223	*	*
204.225	*	*
204.241	*	*
204.245	*	*
204.246	*	*
204.247	*	*
204.248	*	*
204.249	*	*
204.252	*	*
204.254	*	*
204.256	*	*
204.257	*	*
204.277	*	*
204.282	*	*
204.289	*	*
204.292	*	*
204.302	*	*
204.303	*	*
204.347	*	*
204.349	*	*
204.357	*	*
207.302	*	*
207.303	*	*
207.322	*	*
207.323	*	*
207.347	*	*
207.348	*	*
207.355	*	*
207.356	*	*
207.357	*	*
207.359	*	*

XENTRY

207.372	*	*
207.373	*	*
207.402	*	*
207.403	*	*
207.422	*	*
207.423	*	*
207.447	*	*
207.448	*	*
207.455	*	*
207.456	*	*
207.457	*	*
207.459	*	*
207.472	*	*
207.473	*	*
212.002	*	*
212.003	*	*
212.005	*	*
212.020	*	*
212.023	*	*
212.024	*	*
212.025	*	*
212.041	*	*
212.047	*	*
212.048	*	*
212.052	*	*
212.053	*	*
212.054	*	*
212.055	*	*
212.056	*	*
212.057	*	*
212.059	*	*
212.072	*	*
212.073	*	*
212.074	*	*
212.077	*	*
212.080	*	*
212.082	*	*
212.087	*	*
212.088	*	*
212.089	*	*
212.090	*	*
212.091	*	*
212.093	*	*

XENTRY

212.147	*	*
212.148	*	*
212.154	*	*
212.202	*	*
212.203	*	*
212.205	*	*
212.220	*	*
212.223	*	*
212.224	*	*
212.225	*	*
212.247	*	*
212.248	*	*
212.254	*	*
212.255	*	*
212.256	*	*
212.257	*	*
212.259	*	*
212.272	*	*
212.273	*	*
212.274	*	*
212.277	*	*
212.280	*	*
212.282	*	*
212.287	*	*
212.288	*	*
212.289	*	*
212.291	*	*
212.293	*	*
218.303	*	*
218.323	*	*
218.355	*	*
218.359	*	*
218.373	*	*
218.374	*	*
218.391	*	*
218.393	*	*
CL (216)	*	*
S (221)	*	*

Full model designation breakdown		
Vehicle	Engine	Transmission
166.024	642.826	722.903

XENTRY

166.024	642.826	725.031
166.057	276.955	722.906
204.000	651.913	711.653
204.000	651.913	716.656
204.000	651.913	722.694
204.000	651.913	722.996
204.001	651.913	711.653
204.001	651.913	716.656
204.001	651.913	722.694
204.001	651.913	722.996
204.002	651.911	711.653
204.002	651.911	716.656
204.002	651.911	722.646
204.002	651.911	722.908
204.003	651.911	711.670
204.003	651.911	722.646
204.003	651.911	722.908
204.006	646.812	711.655
204.006	646.812	716.608
204.006	646.812	722.699
204.007	646.811	711.655
204.007	646.811	716.608
204.007	646.811	716.655
204.007	646.811	722.699
204.008	646.811	716.657
204.008	646.811	722.640
204.022	642.960	711.670
204.022	642.960	722.902
204.023	642.834	711.670
204.023	642.834	722.903
204.025	642.830	711.670
204.025	642.830	722.902
204.041	271.950	711.656
204.041	271.950	716.607
204.041	271.950	716.635
204.041	271.950	722.695
204.041	271.950	722.997
204.044	271.910	711.655
204.044	271.910	711.656
204.044	271.910	716.635
204.044	271.910	722.695
204.045	271.910	711.655
204.045	271.910	716.607

XENTRY

204.045	271.910	722.695
204.046	271.952	711.656
204.046	271.952	716.607
204.046	271.952	716.635
204.046	271.952	722.695
204.046	271.952	722.997
204.047	271.860	722.618
204.047	271.860	722.997
204.048	271.860	711.653
204.048	271.860	711.655
204.048	271.860	716.607
204.048	271.860	716.612
204.048	271.860	722.696
204.048	271.860	722.997
204.049	271.820	711.653
204.049	271.820	711.655
204.049	271.820	716.607
204.049	271.820	716.612
204.049	271.820	722.696
204.049	271.820	722.997
204.052	272.921	711.656
204.052	272.921	716.636
204.052	272.921	722.998
204.054	272.947	711.654
204.054	272.947	716.671
204.054	272.947	722.999
204.055	276.957	722.906
204.056	272.961	722.906
204.057	276.957	722.906
204.065	272.982	722.906
204.077	156.985	722.907
204.077	156.985	722.930
204.080	276.957	722.960
204.081	272.948	722.964
204.082	651.912	722.965
204.085	272.911	722.963
204.087	272.971	722.960
204.088	276.957	722.960
204.089	642.961	722.962
204.092	642.832	722.962
204.200	651.913	711.653
204.200	651.913	716.656
204.200	651.913	722.694

XENTRY

204.200	651.913	722.996
204.201	651.913	711.653
204.201	651.913	716.656
204.201	651.913	722.694
204.201	651.913	722.996
204.202	651.911	711.653
204.202	651.911	716.656
204.202	651.911	722.646
204.202	651.911	722.908
204.203	651.911	711.670
204.203	651.911	722.646
204.203	651.911	722.908
204.207	646.811	711.655
204.207	646.811	716.608
204.207	646.811	716.655
204.207	646.811	722.699
204.208	646.811	716.657
204.208	646.811	722.640
204.222	642.960	711.670
204.222	642.960	722.902
204.223	642.834	711.670
204.223	642.834	722.903
204.225	642.830	711.670
204.225	642.830	722.902
204.241	271.950	711.656
204.241	271.950	716.635
204.241	271.950	722.695
204.241	271.950	722.997
204.245	271.910	711.655
204.245	271.910	716.607
204.245	271.910	722.695
204.246	271.952	711.656
204.246	271.952	716.635
204.246	271.952	722.695
204.246	271.952	722.997
204.247	271.860	722.618
204.247	271.860	722.997
204.248	271.860	711.653
204.248	271.860	711.655
204.248	271.860	716.607
204.248	271.860	716.612
204.248	271.860	722.696
204.248	271.860	722.997

XENTRY

204.249	271.820	711.653
204.249	271.820	711.655
204.249	271.820	716.607
204.249	271.820	716.612
204.249	271.820	722.696
204.249	271.820	722.997
204.252	272.921	711.656
204.252	272.921	716.636
204.252	272.921	722.998
204.254	272.947	711.654
204.254	272.947	716.671
204.254	272.947	722.999
204.256	272.961	722.906
204.257	276.957	722.906
204.277	156.985	722.907
204.277	156.985	722.930
204.282	651.912	722.965
204.289	642.961	722.962
204.292	642.832	722.962
204.302	651.911	711.653
204.302	651.911	716.656
204.302	651.911	722.646
204.302	651.911	722.908
204.303	651.911	711.670
204.303	651.911	722.646
204.303	651.911	722.908
204.347	271.860	722.618
204.347	271.860	722.997
204.349	271.820	711.655
204.349	271.820	716.607
204.349	271.820	722.997
204.357	276.957	722.906
207.302	651.911	711.653
207.302	651.911	716.656
207.302	651.911	722.646
207.302	651.911	722.908
207.302	651.911	725.011
207.303	651.911	711.670
207.303	651.911	722.646
207.303	651.911	722.908
207.303	651.911	725.011
207.322	642.836	722.902
207.323	642.838	722.903

XENTRY

207.323	642.838	725.011
207.347	271.860	722.618
207.347	271.860	722.997
207.348	271.860	711.655
207.348	271.860	716.607
207.348	271.860	716.612
207.348	271.860	722.696
207.348	271.860	722.997
207.355	276.957	722.906
207.356	272.961	722.906
207.356	272.988	722.906
207.357	272.982	722.906
207.357	272.984	722.906
207.359	276.957	722.906
207.372	273.966	722.904
207.373	278.922	722.909
207.402	651.911	711.653
207.402	651.911	716.656
207.402	651.911	722.646
207.402	651.911	722.908
207.402	651.911	725.011
207.403	651.911	711.670
207.403	651.911	722.646
207.403	651.911	722.908
207.403	651.911	725.011
207.422	642.836	722.902
207.423	642.838	722.903
207.423	642.838	725.011
207.447	271.860	722.618
207.447	271.860	722.997
207.448	271.860	711.655
207.448	271.860	722.696
207.448	271.860	722.997
207.455	276.957	722.906
207.456	272.961	722.906
207.456	272.988	722.906
207.457	272.984	722.906
207.459	276.957	722.906
207.472	273.966	722.904
207.473	278.922	722.909
212.002	651.924	711.653
212.002	651.924	716.656
212.002	651.924	722.646

XENTRY

212.002	651.924	722.908
212.002	651.924	725.011
212.003	651.924	711.670
212.003	651.924	722.646
212.003	651.924	722.908
212.003	651.924	725.011
212.005	651.925	711.653
212.005	651.925	716.656
212.005	651.925	722.694
212.005	651.925	722.996
212.005	651.925	725.011
212.020	642.850	722.902
212.023	642.852	711.670
212.023	642.852	722.903
212.023	642.852	725.011
212.024	642.850	711.670
212.024	642.850	722.902
212.024	642.850	725.011
212.025	642.850	711.670
212.025	642.850	722.902
212.025	642.850	725.011
212.025	642.856	711.670
212.025	642.856	722.902
212.025	642.856	725.011
212.041	271.958	722.695
212.047	271.860	722.618
212.047	271.860	722.997
212.048	271.860	711.655
212.048	271.860	716.612
212.048	271.860	722.696
212.048	271.860	722.997
212.052	272.923	716.636
212.052	272.923	722.998
212.053	272.980	722.906
212.054	272.952	711.654
212.054	272.952	722.999
212.055	276.952	722.906
212.056	272.980	722.906
212.057	272.983	722.906
212.059	276.952	722.906
212.072	273.971	722.904
212.073	278.922	722.909
212.073	278.922	725.011

XENTRY

212.073	278.922	725.032
212.074	157.981	722.931
212.074	157.981	722.965
212.077	156.985	722.930
212.080	276.952	722.960
212.082	651.924	722.965
212.087	272.977	722.960
212.088	276.952	722.960
212.089	642.856	722.962
212.090	273.970	722.961
212.091	278.922	722.967
212.091	278.922	725.021
212.093	642.858	722.966
212.093	642.858	725.021
212.147	271.860	722.618
212.147	271.860	722.997
212.148	271.860	711.655
212.148	271.860	722.696
212.148	271.860	722.997
212.154	272.952	711.654
212.154	272.952	722.999
212.202	651.924	711.653
212.202	651.924	716.656
212.202	651.924	722.646
212.202	651.924	722.908
212.202	651.924	725.011
212.203	651.924	711.670
212.203	651.924	722.646
212.203	651.924	722.908
212.203	651.924	725.011
212.205	651.925	711.653
212.205	651.925	716.656
212.205	651.925	722.694
212.205	651.925	722.996
212.205	651.925	725.011
212.220	642.850	722.902
212.223	642.852	711.670
212.223	642.852	722.903
212.223	642.852	725.011
212.224	642.850	711.670
212.224	642.850	722.902
212.224	642.850	725.011
212.225	642.850	711.670

XENTRY

212.225	642.850	722.902
212.225	642.850	725.011
212.247	271.860	722.618
212.247	271.860	722.997
212.248	271.860	711.655
212.248	271.860	716.607
212.248	271.860	716.612
212.248	271.860	722.696
212.248	271.860	722.997
212.254	272.952	711.654
212.254	272.952	722.999
212.255	276.952	722.906
212.256	272.980	722.906
212.257	272.983	722.906
212.259	276.952	722.906
212.272	273.971	722.904
212.273	278.922	722.909
212.273	278.922	725.011
212.273	278.922	725.032
212.274	157.981	722.931
212.277	156.985	722.930
212.280	276.952	722.960
212.282	651.924	722.965
212.287	272.977	722.960
212.288	276.952	722.960
212.289	642.856	722.962
212.291	278.922	722.967
212.291	278.922	725.021
212.293	642.858	722.966
212.293	642.858	725.021
216.371	273.961	722.904
216.373	278.920	722.909
216.374	157.980	722.931
216.376	275.953	722.649
216.377	156.984	722.907
216.377	156.984	722.930
216.379	275.982	722.649
216.379	275.982	722.932
216.386	273.968	722.904
216.386	273.968	722.961
216.394	278.920	722.967
218.303	651.924	722.906
218.303	651.924	722.908

XENTRY

218.303	651.924	725.011
218.323	642.852	722.903
218.323	642.852	725.011
218.323	642.853	722.903
218.323	642.853	725.011
218.355	276.952	722.906
218.355	276.952	725.011
218.355	276.957	722.906
218.355	276.957	725.011
218.359	276.952	722.906
218.359	276.952	725.011
218.373	278.922	722.909
218.373	278.922	725.011
218.374	157.981	722.931
218.391	278.922	722.967
218.393	642.854	722.966
218.393	642.858	722.966
221.003	651.961	722.908
221.022	642.930	722.902
221.026	642.862	722.903
221.028	629.911	722.903
221.054	272.946	722.999
221.056	272.965	722.906
221.057	276.950	722.906
221.070	273.922	722.904
221.071	273.961	722.904
221.073	278.932	722.909
221.074	157.980	722.931
221.077	156.984	722.907
221.077	156.984	722.930
221.080	642.932	722.962
221.082	276.950	722.960
221.083	642.868	722.966
221.084	273.924	722.961
221.086	273.968	722.961
221.087	272.975	722.960
221.094	278.932	722.967
221.095	272.974	722.950
221.103	651.961	722.908
221.122	642.930	722.902
221.126	642.862	722.903
221.128	629.911	722.903
221.154	272.946	722.999

XENTRY

221.156	272.965	722.906
221.157	276.950	722.906
221.170	273.922	722.904
221.171	273.961	722.904
221.173	278.932	722.909
221.174	157.980	722.931
221.176	275.953	722.649
221.177	156.984	722.907
221.177	156.984	722.930
221.179	275.982	722.649
221.180	642.932	722.962
221.182	276.950	722.960
221.183	642.868	722.966
221.184	273.924	722.961
221.186	273.968	722.961
221.187	272.975	722.960
221.194	278.932	722.967
221.195	272.974	722.950