

Low beams or high beams nonfunctional

Topic number	LI82.10-P-061309
Version	1
Design group	82.10 Exterior lights
Date	04-17-2015
Validity	Model series 463 with xenon headlamp
Reason for change	
Reason for block	

Complaint:

Low beams or high beams nonfunctional on one side

Cause:

There may be various causes; please analyze using the sequence described under "Remedy".

Remedy:

1. Check fuse.
2. Check gas discharge lamp.
3. Check ballast controller by means of cross-installation from the operational headlamp or by installing an available ballast controller.
4. Check ground connection to headlamp.
5. Check wiring harness between CBC and headlamp (resistance/damage).

Symptoms

Overall vehicle / Lighting / Exterior lights / Driving lights / Low beams / Low beam function / Nonfunctional

Overall vehicle / Lighting / Exterior lights / Driving lights / High beams / High beam function / Nonfunctional

Control unit/fault code

Control unit	Fault code	Fault text
SAM - Signal acquisition and actuation module (N10) (CBC)	B162A01	The left low beam has a malfunction. There is a general electrical fault.
SAM - Signal acquisition and actuation module (N10) (CBC)	B162E15	The right low beam has a malfunction. There is a short circuit to positive or an open circuit.
SAM - Signal acquisition and actuation module (N10) (CBC)	B163201	The left high beam has a malfunction. There is a general electrical fault.
SAM - Signal acquisition and actuation module (N10) (CBC)	B163211	The left high beam has a malfunction. There is a short circuit to ground.
SAM - Signal acquisition and actuation module (N10) (CBC)	B163212	The left high beam has a malfunction. There is a short circuit to positive.
SAM - Signal acquisition and actuation module (N10) (CBC)	B163213	The left high beam has a malfunction. There is an open circuit.

SAM - Signal acquisition and actuation module (N10) (CBC)	B163215	The left high beam has a malfunction. There is a short circuit to positive or an open circuit.
SAM - Signal acquisition and actuation module (N10) (CBC)	B163601	The right high beam has a malfunction. There is a general electrical fault.
SAM - Signal acquisition and actuation module (N10) (CBC)	B163611	The right high beam has a malfunction. There is a short circuit to ground.
SAM - Signal acquisition and actuation module (N10) (CBC)	B163612	The right high beam has a malfunction. There is a short circuit to positive.
SAM - Signal acquisition and actuation module (N10) (CBC)	B163613	The right high beam has a malfunction. There is an open circuit.
SAM - Signal acquisition and actuation module (N10) (CBC)	B162A11	The left low beam has a malfunction. There is a short circuit to ground.
SAM - Signal acquisition and actuation module (N10) (CBC)	B163615	The right high beam has a malfunction. There is a short circuit to positive or an open circuit.
SAM - Signal acquisition and actuation module (N10) (CBC)	B162A12	The left low beam has a malfunction. There is a short circuit to positive.
SAM - Signal acquisition and actuation module (N10) (CBC)	B162A13	The left low beam has a malfunction. There is an open circuit.
SAM - Signal acquisition and actuation module (N10) (CBC)	B162A15	The left low beam has a malfunction. There is a short circuit to positive or an open circuit.
SAM - Signal acquisition and actuation module (N10) (CBC)	B162E01	The right low beam has a malfunction. There is a general electrical fault.
SAM - Signal acquisition and actuation module (N10) (CBC)	B162E11	The right low beam has a malfunction. There is a short circuit to ground.
SAM - Signal acquisition and actuation module (N10) (CBC)	B162E12	The right low beam has a malfunction. There is a short circuit to positive.
SAM - Signal acquisition and actuation module (N10) (CBC)	B162E13	The right low beam has a malfunction. There is an open circuit.

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 821 10 61			Ballast controller			X
N 910139 000002			Gas discharge lamp			X

Validity		
Vehicle	Engine	Transmission
463.202	*	*
463.204	*	*
463.206	*	*
463.207	*	*
463.208	*	*
463.209	*	*
463.215	*	*
463.218	*	*

463.220	*	*
463.221	*	*
463.222	*	*
463.224	*	*
463.225	*	*
463.227	*	*
463.228	*	*
463.230	*	*
463.231	*	*
463.232	*	*
463.233	*	*
463.235	*	*
463.236	*	*
463.237	*	*
463.238	*	*
463.240	*	*
463.241	*	*
463.242	*	*
463.243	*	*
463.244	*	*
463.245	*	*
463.246	*	*
463.247	*	*
463.248	*	*
463.249	*	*
463.250	*	*
463.254	*	*
463.270	*	*
463.271	*	*
463.272	*	*
463.273	*	*
463.274	*	*
463.300	*	*
463.303	*	*
463.304	*	*
463.306	*	*
463.307	*	*
463.308	*	*
463.309	*	*
463.315	*	*
463.318	*	*
463.320	*	*
463.321	*	*

463.322	*	*
463.323	*	*
463.324	*	*
463.325	*	*
463.327	*	*
463.328	*	*
463.330	*	*
463.331	*	*
463.332	*	*
463.333	*	*
463.335	*	*
463.336	*	*
463.338	*	*
463.340	*	*
463.341	*	*
463.346	*	*