



Troubleshooting Hella Dyna Beam bend lighting

Troubleshooting

In the case of Dyna Beam bend lighting headlight sets (Golf V, Astra H, Ford Focus I), a control lamp is used which indicates possible malfunction of the system to the driver.

After switching on the headlights, the system is checked for perfect operation. If the system is OK, the sequence is as follows:

Control lamp on for <1 s, off for <1 s, on for 5 s and then off again. If there is a fault, the control lamp stays on.

In this case, the low beam and the ignition should be switched off (system free of voltage) and then switched on again.

If there is still a fault, the fuses must be checked, and the control unit must be checked to make sure that it is mounted correctly (no wobbling, correct orientation etc.).

Here is a table with possible causes of faults:

	Fault	Remark	Status of control lamp	Reaction of headlights	Task Check, replace if necessary
1	Terminal 56b fault		On	Full functionality	- Harnesses - Light source of the low beam
2	DC headlight range adjustment signal fault		On	Swivel function, headlights set too low	- Harnesses - Function of the headlight range adjustment
3	Communication fault	Can be ascertained only in operation,	On	Initially full function, then: - no swivel function, - projection systems move to zero position, manual	- Vehicle position: Lateral inclination >30° - Harnesses



		after restart see no. 4 or 5		headlight range adjustment works	- Headlights - Installation position of the control unit
4	Communication fault		On	No swivel function, headlight set too low on one side	- Harnesses - Headlights
5	Communication fault		On	No swivel function, headlight set too low on one side	- Harnesses - Control unit
6	Control unit defective	Can be ascertained only in operation, after restart see no. 7	On	Initially full function, then: - no swivel function - projection systems move to zero position - manual headlight range adjustment does not work anymore	- Harnesses - Control unit
7	Control unit defective		On	No reaction (reference run missing at system start), manual headlight range adjustment does not work anymore	- Voltage supply - Harnesses - Control unit

Pin assignment of control unit:





Pin	Description	Pin	Description
A2	Speed signal (analogue)	E2	Reserve
A3	Headlight range adjustment DC in G (handwheel)	E3	Headlight range adjustment DC out right G (servomotor)
A4	K-line (headlight range adjustment, programming)	E4	Headlight range adjustment DC in 56b (handwheel)
B2	Indicator left	F2	Fail-safe light
B3	Indicator right	F3	Headlight range adjustment DC out left G (servomotor)
B4	K-line (smart-switch module) / LIN (ISM) left	F4	Headlight range adjustment DC out right 56b
C2	Terminal 56b right (low beam)	G2	Static bend lighting right
C3	Tourist switch	G3	Terminal 15 (ignition, 12 V)
C4	K-line (smart-switch module) / LIN (ISM) right	G4	Terminal 31 (earth)
D2	Terminal 56b left (low beam)	H2	Static bend lighting left
D3	Terminal 56a (high beam)	H3	Battery voltage supply input (stat. bend lighting left)
D4	Headlight range adjustment DC out left 56b	H4	Battery voltage supply input (stat. bend lighting right)