

Volvo XC90 2016 -

HIGHBEAM 3RCL

XC90 Models before MY2019 have head lights that work by LIN Bus.
The HB-3RCL Interface connects to the LIN wire at either of the front head lights. Connection is only required to one of these wires:

LIN Bus Left Head Light: : White

LIN Bus Left Head Light: : Green

Connection to CAN Bus not required. All outputs are active with High Beam

Please ensure that you connect the product to the vehicle CAN Bus wires detailed above.

CANNECT Wire		Wire Connection Point Or Output Function
RED & YELLOW (Fused)	>	Connect to a PERMANENT 12v supply.
PURPLE (Fused)	>	Relay 2 Input Polarity
BLUE (Fused)	>	Relay 3 Input Polarity
BLACK	>	Connect to a good chassis GROUND point.
WHITE (Twisted)	>	CAN HI Connection : Vehicle CAN HI wire.
BLUE (Twisted)	>	CAN LO Connection : Vehicle CAN LO wire.
WHITE	>	Vehicle LIN Connection
YELLOW	>	Relay 1 Output (10A Max)
PURPLE	>	Relay 2 Output (10A Max)
BLUE	>	Relay 3 Output (10A Max)
YELLOW (White Stripe)	>	Optional 12V Activation Input Control for Relay 1
PURPLE (White Stripe)	>	Optional 12V Activation Input Control for Relay 2
BLUE (White Stripe)	>	Optional 12V Activation Input Control for Relay 3

N.B. All 3 relay inputs can be connected to positive or negative polarity depending on the requirement polarity of each output. If a negative polarity is required for relay 1 output, cut the yellow wire from the red wire at the fuse junction and fit a 1A fuse to the red wire to power the interface.

Installation Testing

The CANNECT interface switches on automatically when CAN or LIN activity is detected. The interface has an LED status indicator, which will illuminate GREEN when valid CAN or LIN data has been identified by the interface upon connection.

If the LED indicator is illuminated RED for more than 10 seconds, the interface is functioning but cannot identify the vehicle. It is very important that the interface is only connected to the vehicle CAN Bus wiring at the connection point location detailed at the top of the page. If the LED remains solid RED, please disconnect and re-connect the unit from the harness with the ignition on.

If the LED fails to illuminate or flash, there is a power connection problem - recheck the connections. If the LED flashes RED continuously, the interface is powered but is not reading CAN data. Check the interface CAN HI and CAN LO connections are the correct way around. Also check that these wires are connected to the CAN Bus wires as detailed above.

The LED will switch from GREEN to RED when any of the relay outputs are active.

The CANNECT interface automatically switches off when the vehicle CAN Bus is inactive. This can be tested by removing the keys from the ignition, closing all vehicle doors and switching all auxilliary equipment 'off'. The interface LED should extinguish within 60 seconds.



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LIN Connection points