



INSTALLATION INSTRUCTION

Edition A	Language English	Operation no. 370-903	Issuer RHA	Date 2026-09-03	Page 1/5
Kit no.				Option no.	
Applies to models R100E, R100E 5, R100E OC					

CAN bus interface for EU Data Act Direct Access

Introduction

Read and understand the safety instructions in the Operator's Manual and Service Information for the machine.

The Installation Instruction is based on the use of special tools, E-tools and standard tools generally available.

Regarding bolted joints which are not listed here, see "Volvo standard tightening torques".

Volvo Construction Equipment will not accept any responsibility if any lifting devices, tools or working methods are used other than those described in this publication.

Volvo works with continuous improvement of the machine's environmental performance.

Description

The machine CAN bus interface can be used when it is necessary to send information from machine in a machine-readable format. This is a one-way communication from the machine.

- 1 Make sure the battery disconnect switch is switched off.
- 2 Drill three 7mm holes as shown, measuring from the centerline of the grommet hole.

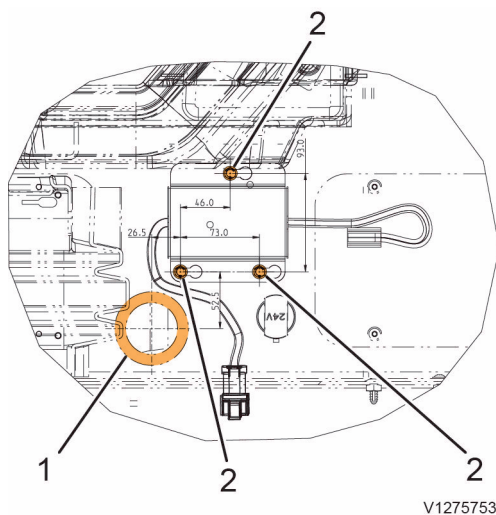


Fig.1

- 1 Grommet hole
- 2 Hole positions

Edition A	Language English	Operation no. 370-903	Issuer RHA	Date 2026-09-03	Page 2/5
Kit no.				Option no.	

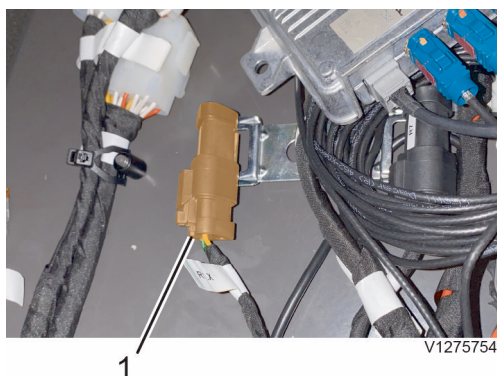


Fig.2

1 Plug R1.X

- 3 Remove plug R1.X from termination resistor - Located behind the fuse box to the LHS, underneath passenger seat.



Fig.3

1 X201 connected

- 4 Connect X201 of new harness into existing plug R1.X as shown and secure to an existing harness.



Fig.4

- 5 Route new harness around the back side of fuse board underneath telematics unit, as indicated by red line.

Edition A	Language English	Operation no. 370-903	Issuer RHA	Date 2026-09-03	Page 3/5
Kit no.				Option no.	

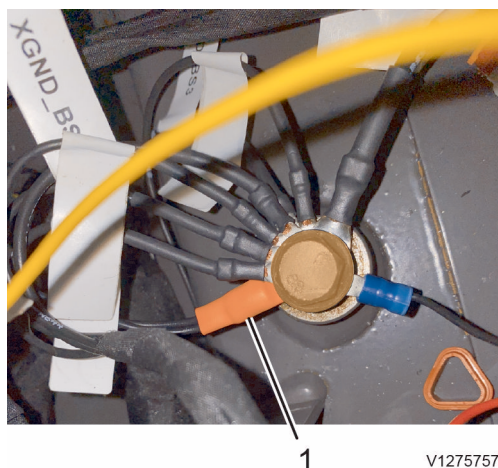


Fig.5
1 XGND_BS1

- 6 Remove XGND_BS1 stud as shown - located behind the fuse box to the LHS of the main relay busbar as shown below. Connect new black cable eyelet XGND_BS6 from new harness and retighten securely

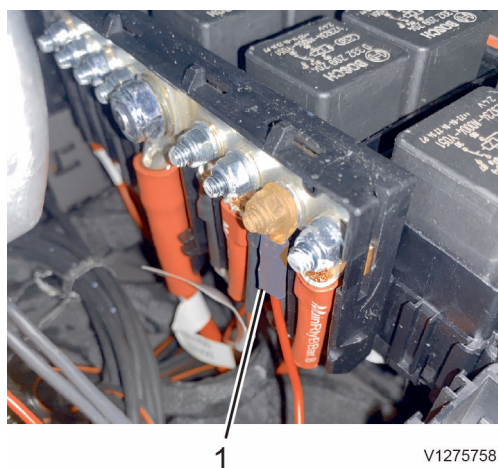


Fig.6
1 MainRlyBBar.7

- 7 Remove black cover from the Main Relay Busbar, loosen nut from MainRlyBBar.7, add eyelet X199 of new harness to the busbar and retighten nut. Replace busbar cover on completion.

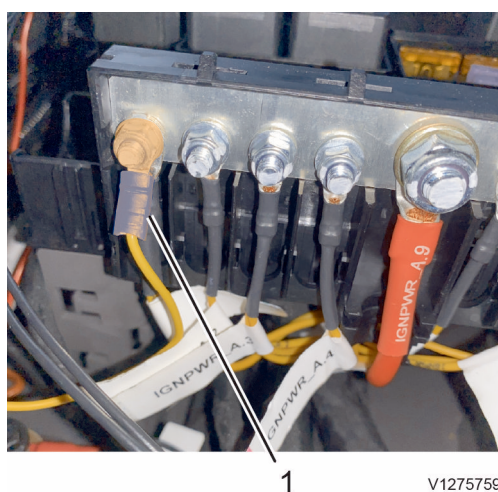


Fig.7
1 IGNPWR_A.1

- 8 Remove black cover from the Ignition Supply Busbar A, loosen nut from IGNPWR_A.1, add eyelet X200 to the busbar and retighten nut. Replace busbar cover on completion.

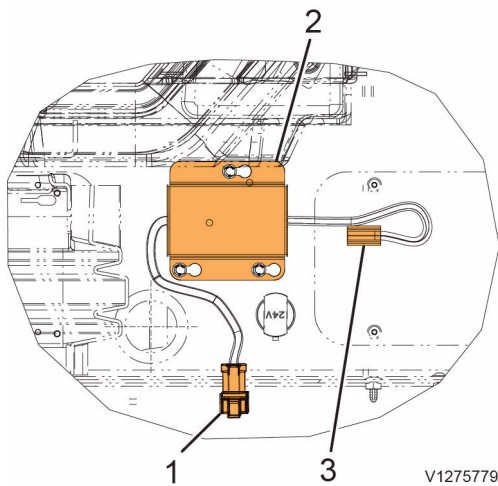


Fig.8

- 1 8-pin connector
- 2 Control box
- 3 6-pin connector

- 9 Fit control box to the previously drilled holes.
- 10 When 6-way connector is not in use, secure with tie wrap as detailed in installation drawing on previous sheet.



Fig.9

- 1 8-pin connectors, connected

- 11 Connect 8-way Deutsch connector K93.X should be fed through large grommet on the center console behind the driver seat and connected to CAN interface module as shown.
- 12 Pass 8-way connector back through the grommet such that connectors are hidden.

CAN Signal Description

Message name	Cycle Time (ms)	29-bit ID	Start bit	Length (bit)	Signal names	Scaling	Offset	Description	Unit
VP2	20	0x0CFF0227	32	16	Vehicle Speed	1	0		kph
Hours	1000	0x18FEE527	0	32	Machine Hours	0.05	0		Hours

Edition A	Language English	Operation no. 370-903	Issuer RHA	Date 2026-09-03	Page 5/5
Kit no.				Option no.	

Message name	Cycle Time (ms)	29-bit ID	Start bit	Length (bit)	Signal names	Scaling	Offset	Description	Unit
MCU1	100	0x18FF2927	4	2	Body Position	1	0	0 - Body is up 1 - Body is not up 2 - Error 4 - Not available	
ETC2	1000	0x18F00527	32	8	Active Gear	1	-125	0 -> Neutral >0 -> Forward <0 -> Reverse	
LFE	100	0x18FEFC27	16	1	Fuel Consumption Total	0.05	0		L/Hr
EEC1	20	0x0CF00427	16	32	Engine Speed	0.125	0		rpm
DD	1000	0x18FEFC27	8	8	Fuel Level	1	0		