



INSTALLATION INSTRUCTION

Edition A	Language English	Operation no. 370-903	Issuer EXC	Date 2026-09-03	Page 1/4
Kit no.				Option no.	
Applies to models EC140E L, EC140E LM, EC140E LS, EC160E L, EC160E NL, EC210F 2, EC210F 3, EC210F L2, EC210F L3, EC210F L5, EC210F NL5, EC230F 2, EC230F 3, EC230F L2, EC230F L3, EC230F L5, EC230F LR2, EC230F LR3, EC230F LR5, EC230F N5, EC230F NH5, EC230F NL5, EC260F L3, EC260F L5, EC260F LC4, EC260F LR3, EC260F LR5, EC260F NL5, EC300F L3, EC300F L5, EC300F LC4, EC300F LR3, EC300F LR5, EC300F NL5, EC360F L3, EC360F L5, EC360F NL5, EC380E HR, EC400F HR5, EC400F L3, EC400F L5, EC400F LR3, EC400F LR5, EC400F NL5, EC480E HR, EC500F HR5, EC500F L3, EC500F L5, EC500F LR3, EC500F LR5, EC530E L, EC750E HR, EC750E L, EC750E LC4, ECR145F L5, ECR145F LM5, ECR255F L5, ECR355E L, ECR355E NL, ECR355F L5, ECR355F NL5, EW205E, JEC230F L, JEC230F LS, JEC230F N, JEC230F NL					

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 Turn OFF the battery disconnect switch.

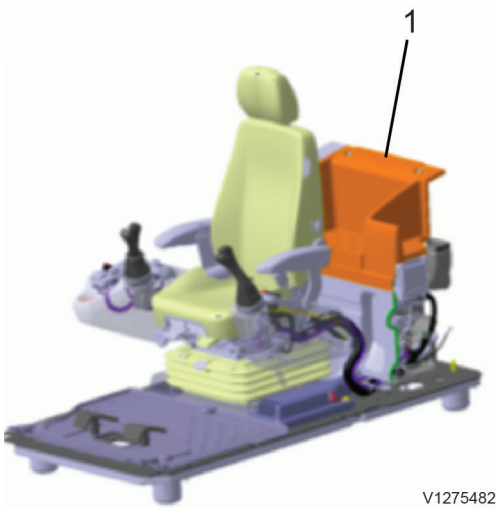


Fig.1
1 Rear cover

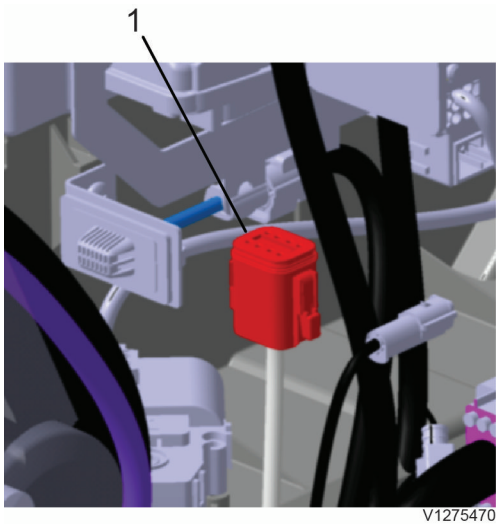
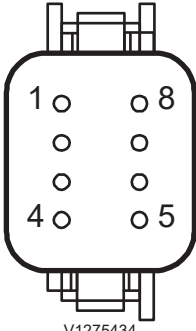


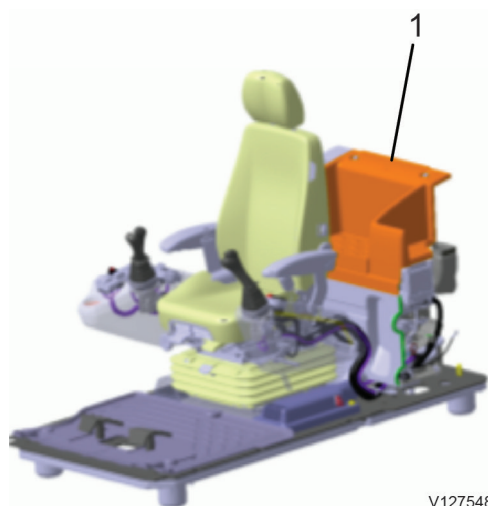
Fig.2
1 8-pin connector

2 Remove the rear cover.

3 Connect the external device to the 8-pin connector on the cab cable harness.

8P	 V1275434	DT04-8PA-CE02	
		PIN	FUNCTION
		1	INT KEY
		2	INT BAT+
		3	INT CAN LOW
		4	INT GND
		5	INT GND
		6	INT CAN HIGH
DT P/N	DT06-8SA-CE10	7	INT BAT+
VOLVO P/N	874091	8	NC
WEDGE	W8S-P012		
VOLVO P/N	874110		

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V1275482

Fig.3

1 Rear cover

- 4 Reinstall the rear cover.
- 5 Turn OFF the battery disconnect switch.
- 6 Turn on the ignition.
- 7 Data is available.

CAN Signal Description

Table 1. E-series Excavators

Signal Name	Cycle Time (ms)	29-bit ID	Start bit	Length (bit)	Factor	Offset	Min	Max	Unit
EngineSpeed_Gy	100	0X18FF3711	0	16	0.125	0	0	8192	rpm
AmbientAirTemperature_Gy			24	8	1	-50	-50	205	deg
EngineFuelRate_Gy			56	8	1	0	0	255	l/h
TotalVehicleHours_Gy	1000	0X18FF3811	0	32	0.05	0	0	214748365	hr
EngineTotalFuelConsumed_Gy			32	32	1	0	0		litre
ErrorLEDstatus_Gy	100	0X18FF3911	2	2	1	0	0	3	
CatalystTankLevel_Gy	100	0X18FF3B11	9	8	0.4	0	0	102	percent
BatteryVoltage			22	10	0.05	0	0	51	v
FuelLevel_Gy			33	8	0.4	0	0	102	%
SecondsUTC_BB2_Gy	100	0x18FF3D11	0	8	0.25	0	0	63.75	Seconds
MinutesUTC_BB2_Gy			8	8	1	0	0	255	Minutes
HoursUTC_BB2_Gy			16	8	1	0	0	255	Hours
MonthUTC_BB2_Gy			24	8	1	0	0	255	Month
DayUTC_BB2_Gy			32	8	0.25	0	0	63.75	Days
YearUTC_BB2_gy			40	8	1	1985	0	2240	Years

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Table 2. F-series Excavators

Signal Name	Cycle Time (ms)	29-bit ID	Start bit	Length (bit)	Factor	Offset	Min	Max	Unit
EngineSpeed_Gy	100	0X18FF3711	0	16	0.125	0	0	8192	rpm
AmbientAirTemperature_Gy			24	8	1	-50	-50	205	deg
EngineFuelRate_Gy			56	8	1	0	0	255	l/h
TotalVehicleHours_Gy	1000	0X18FF3811	0	32	0.05	0	0	214748365	hr
EngineTotalFuelConsumed_Gy			32	32	1	0	0		litre
ErrorLEDstatus_Gy	100	0X18FF3911	2	2	1	0	0	3	
CatalystTankLevel_Gy	100	0X18FF3B11	9	8	0.4	0	0	102	percent
BatteryVoltage			22	10	0.05	0	0	51	v
FuelLevel_Gy			33	8	0.4	0	0	102	%
SecondsUTC_BB2_Gy	100	0x18FF3D11	0	8	0.25	0	0	63.75	Seconds
MinutesUTC_BB2_Gy			8	8	1	0	0	255	Minutes
HoursUTC_BB2_Gy			16	8	1	0	0	255	Hours
MonthUTC_BB2_Gy			24	8	1	0	0	255	Month
DayUTC_BB2_Gy			32	8	0.25	0	0	63.75	Days
YearUTC_BB2_gy			40	8	1	1985	0	2240	Years
GPSTData_Latitude_ISig_9	500	0X18FF2161	0	32	0.0000001	-210	-210	219.49673	deg
GPSTData_Longitude_ISig_9			32	32	0.0000001	-210	-210	219.49673	deg
GPSTData_Direction_ISig_9	500	0X18FF2261	0	16	0.0078125	0	0	511.99219	deg
GPSTData_VehSpeed_ISig_9			16	16	0.0039063	0	0	255.99609	Km_per_h
GPSTData_Altitude_ISig_9			32	16	0.125	-2500	-2500	5691.875	m