



INSTALLATION INSTRUCTION

Edition A	Language English	Operation no. 370-903	Issuer WLO	Date 2026-08-31	Page 1/7
Kit no.				Option no.	
Applies to models JL90K, L150K, L180K, L200K HL, L220K, L260K					

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".

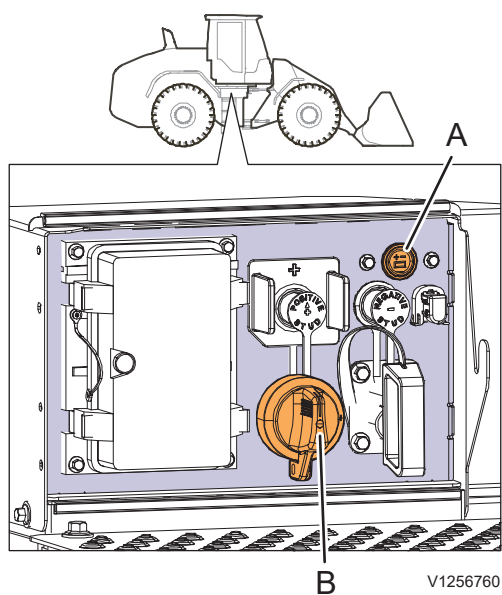
Volvo Construction Equipment will not accept any responsibility if any lifting devices, tools or working methods are used other than those described in this publication.

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.

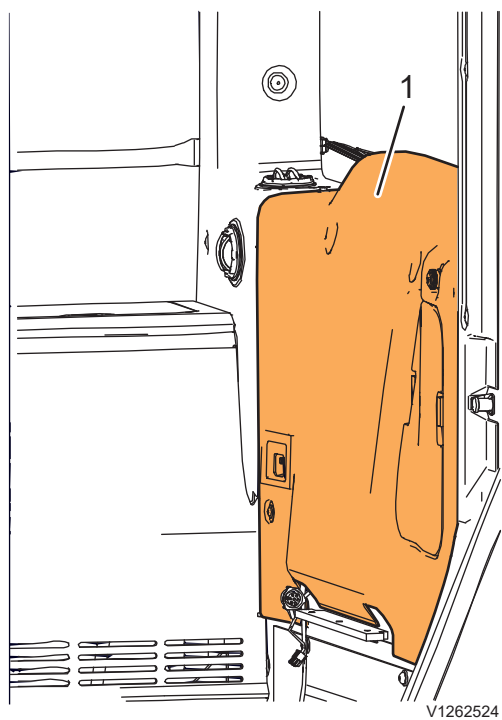
Edition A	Language English	Operation no. 370-903	Issuer WLO	Date 2026-08-31	Page 2/7
Kit no.				Option no.	



- 1 Make sure the battery disconnect switch is switched off.

Fig.1

- A Button/lamp for controlled shutdown of the machine
- B Battery disconnect switch



- 2 Remove the rear wall cover.

Fig.2

- 1 Rear wall cover

Edition A	Language English	Operation no. 370-903	Issuer WLO	Date 2026-08-31	Page 3/7
Kit no.				Option no.	

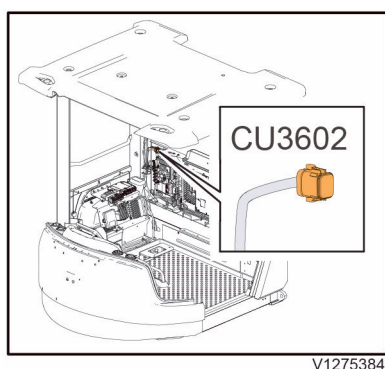


Fig.3

1 Cable harness connector

- 3 Connect the external device to the 8-pin connector on the cab cable harness.
CAN bus interface connector (DT06-08SA-CE10) pinout:

Pin 3	CANL
Pin 6	CANH

Mating connector (for the user): DT04-08PA-CE02

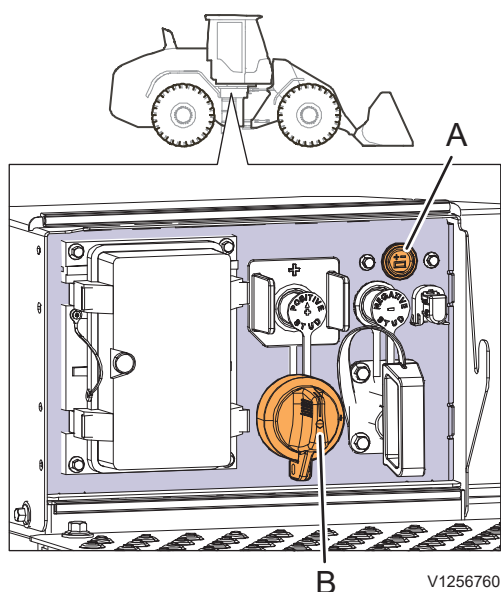


Fig.4

1 Rear wall cover

- 4 Reinstall the rear wall cover.

Edition A	Language English	Operation no. 370-903	Issuer WLO	Date 2026-08-31	Page 4/7
Kit no.				Option no.	



- 5 Turn on the battery disconnect switch.
- 6 Turn on the ignition.
- 7 Data is available.

Fig.5

- A Button/lamp for controlled shutdown of the machine
B Battery disconnect switch

CAN Signal Description

Table 1. Wheel Loaders K-series

Message Name	Cycle Time(ms)	29-bit ID	Start bit	Length(bit)	Signal names	Scaling	Offset	Description	Unit
VDS	1000	0x18FEE8D8	0	16	Compass Bearing	0.0078125	0	Machine direction	Degrees
			48	16	Altitude	0.125	-2500	Machine Altitude	Meter
CCVS	100	0x18FEF191	2	2	Parking brake switch			0 -> Parking brake released, 1 -> Parking brake engaged	Parking brake status
			8	16	Wheel Based Speed	0.00390625	0		kmph
VEP1	1000	0x18FEF7D8	32	16	Battery Potential	0.05	0	Battery voltage, 24V system	Voltage
HOURS	1000	0x18FEE500	0	32	Engine Total Hours Of Operation	0.05	0		Hours
VDHR	1000	0x18FEC1D8	0	32	High Resolution Total Vehicle Distance	5	0		Meter

Edition A	Language English	Operation no. 370-903	Issuer WLO	Date 2026-08-31	Page 5/7
Kit no.				Option no.	

Message Name	CycleTime(ms)	29-bit ID	Start bit	Length(bit)	Signal names	Scaling	Offset	Description	Unit
MOS_Comm on_0	100	0x18FF00D8	0	4	Vehicle Mode			0 -> Hibernate, 1 -> Parked, 2 -> Living, 3 -> Accessory , 4 -> Pre-running, 5 -> Cranking, 6 -> Running	Vehicle mode
AMB	1000	0x18FEF5D3	24	16	Ambient Air Temperature	0.03125	-273		Degree Celsius
ETC2	100	0x18F005D3	24	8	Current Gear	1	-125	0 -> Neutral >0 -> Forward <0 -> Reverse	Gear
DM1	1000	0x18FECAD3	2	2	Amber Warning Lamp			0 -> Not active, 1 -> Active	Check notification
			4	2	Red Stop Lamp			0 -> Not active, 1 -> Active	Warning notification
TD	1000	0x18FEE6D8	0	8	Seconds	0.25	0		Seconds
			8	8	Minutes	1	0		Minutes
			16	8	Hours	1	0		Hours
			24	8	Month	1	0		Month
			32	8	Day	0.25	0		Day
			40	8	Year	1	1985		Year
LFC	1000	0x18FEE900	32	32	Engine Total Fuel Used	0.5	0		Liters
EEC1	20	0xCF00400	24	16	Engine Speed	0.125	0		rpm
LFE	100	0x18FEF200	0	16	Fuel Rate	0.05	0		Liter/ hour
VP1	1000	0x18FEF3D8	0	32	Latitude	0.0000001	-210		Degree s
			32	32	Longitude	0.0000001	-210		Degree s

Edition A	Language English	Operation no. 370-903	Issuer WLO	Date 2026-08-31	Page 6/7
Kit no.				Option no.	

Message Name	CycleTime(ms)	29-bit ID	Start bit	Length(bit)	Signal names	Scaling	Offset	Description	Unit
DD1	1000	0x18FEFCD8	8	8	Fuel Level 1	0.4	0		Percent
At1T1I	1000	0x18FE56D3	0	8	Aftertreatment 1 Diesel Exhaust FluidTank 1 Level	0.4	0		Percent

Table 2. L90K Electric

Message Name	CycleTime(ms)	29-bit ID	Start bit	Length(bit)	Signal names	Scaling	Offset	Description	Unit
VDS	1000	0x18FEE8D8	0	16	Compass Bearing	0.0078125	0		Degrees
			48	16	Altitude	0.125	-2500		Meter
CCVS	100	0x18FEF191	2	2	Parking Brake Switch			0 -> Parking brake released, 1 -> Parking brake engaged	Parking brake status
			8	16	Wheel Based Speed	0.00390625	0		kmph
VEP1	1000	0x18FEF7D8	32	16	Battery Potential	0.05	0		Voltage
HOURS	1000	0x18FEE500	0	32	Engine Total Hours Of Operation	0.05	0		Hours
VDHR	1000	0x18FEC1D8	0	32	High Resolution Total Vehicle Distance	5	0		Meter
MOS_Common_0	100	0x18FF00D8	0	4	Vehicle Mode			0 -> Hibernate, 1 -> Parked, 2 -> Living, 3 -> Accessory, 4 -> Pre-running, 5 -> Cranking, 6 -> Running	Vehicle mode
AMB	1000	0x18FEF5D3	24	16	Ambient Air Temperature	0.03125	-273		Degree Celsius

Edition A	Language English	Operation no. 370-903	Issuer WLO	Date 2026-08-31	Page 7/7
Kit no.				Option no.	

Message Name	Cycle Time(ms)	29-bit ID	Start bit	Length(bit)	Signal names	Scaling	Offset	Description	Unit
ETC2	100	0x18F005D3	24	8	Current Gear	1	-125	0 -> Neutral >0 -> Forward <0 -> Reverse	Gear
DM1	1000	0x18FECAD3	2	2	Amber Warning Lamp			0 -> Not active, 1 -> Active	Check notification
			4	2	Red Stop Lamp			0 -> Not active, 1 -> Active	Warning notification
TD	1000	0x18FEE6D8	0	8	Seconds	0.25	0		Seconds
			8	8	Minutes	1	0		Minutes
			16	8	Hours	1	0		Hours
			24	8	Month	1	0		Month
			32	8	Day	0.25	0		Day
			40	8	Year	1	1985		Year
VEP4	1000	0x18FCB7D8	0	16	Hybrid Battery Pack Remaining Charge	0.0025	0		Percent
EVSE1DCS1	1000	0x18FAB8D8	0	4	DC Charging State			0 -> Idle, charging not active 1 -> Charging active 3 -> Downgraded charging 12-> Completed / Terminating 14 -> Fault	Charging status
VP1	1000	0x18FEF3D8	0	32	Latitude	0.0000001	-210		Degrees
			32	32	Longitude	0.0000001	-210		Degrees
EVDCCIP	1000	0x18FA60D8	24	16	EV Full Charge Time Remaining	10	0		Seconds