

Script.CAN.EV.VOLVO-RENAULT.HEAVY-VEHICLE.ACK_ENBL.v1.1.0.1_MG

Volvo-Renault Electric Heavy Vehicle CAN Script

The compatibility if this script can only be guaranteed for:

1. Volvo-Renault Commercial EVs
2. Volvo BZL 2021+
3. Renault D E-Tech 2022+
4. Vehicles with a VIN Number that starts with: **VF640JEZ_RB, YV3U1W12_PA**

This script can be used with the following devices:

1. MiX 4000
2. MiX 6000
3. FM3316 and FM3306 Communicators
4. FM3517i and FM3507i Communicators
5. FM3617i and FM3607i Communicators
6. FM3717i and FM3707i Communicators
7. FM3817i and FM3807i Communicators

Version History

Reference	Version	Changes
SCR-2629	v1.0.0.0	<p>This script supports the standard system Parameters:</p> <p>Speed, RPM, High resolution odometer, Seatbelt, Charger Type, Charging Gun Status, Charging status, Electrical Consumption, Energy consumed, Energy generated, Instantaneous power, Remaining Time to Charge, State of charge, Trip net energy usage, Vehicle range remaining, Left Turn Indicator, Park Brake State, Right Turn Indicator, Accelerator Pedal Position, Ambient Air Temperature, Brake Pedal Switch, Cruise Control Set Speed, Cruise Control Set Switch, Current Gear, Total engine hours, Distance remaining to next service, Engine Coolant Temperature, Engine torque, Front Wiper Switch, Engine Load At Current Speed, PTO State, Gross Vehicle Weight, High-Res Trip Distance, Axle weights.</p> <p>This script should be compatible with vehicles with a VIN starting with: VF640JEZ_RB</p>
SCR-2629	v1.1.0.1	<p>Script renamed to Script.CAN.EV.VOLVO-RENAULT.HEAVY-VEHICLE.ACK_ENBL.v1.1.0.1_MG_BETA.</p> <p>Model specific install information added to manual.</p> <p>Added Recuperation Status. Removed Seatbelt. Fixed source address of Engine Coolant Temperature.</p>
SCR-2629	v1.1.0.1	<p>Converted to Production version. Enabled Odo sync.</p>

Supported Parameters

ACRONYM	PARAMETER NAME	PARAMETER DESCRIPTION	Return values/states (if applicable)
^CAN_N	System.Scratch40C	Engine RPM	
^HRES	FMS.HRES	FMS High resolution odometer	
^CANV1	CAN.CANV1	CANV1 - Tachograph vehicle speed	
CANV2	CAN.CANV2	CANV2 - Wheel based speed	
EVCTY	System.FM.CAN.EVCTY	EV CAN: Charger Type	0 = Opp Charge (DC) 1 = Panto (DC) 2 = CCS (AC) 3 = CCS (DC) 4 to 5 = Reserved 6 = Error 7 = Not Available
CHGST	System.FM.CAN.CHGST	EV CAN: Charging Gun Status	0 = Not Connected 1 = Connected 2 = Connected, Not Ready to Charge 3 = Connected, Charging Allowed 4 = Disconnected 5 = Reserved 6 = Error 7 = Not Available
EVICS	System.FM.CAN.EVICS	EV CAN: Charging status	-1 = Initialisation 0 = Not Charging 1 = Charging 100 = Fault 101 = Error 200 = Not Available
KWHKM	System.FM.CAN.KWHKM	EV CAN: Electrical Consumption (kiloWatt Hour Per 100km)	
KWHHR	System.FM.CAN.KWHHR	EV CAN: Electrical Consumption (kiloWatt Hour Per hour)	
BOKWH	System.FM.CAN.BOKWH	EV CAN: Energy consumed	
BIKWH	System.FM.CAN.BIKWH	EV CAN: Energy generated	
INPOW	System.FM.CAN.INPOW	EV CAN: Instantaneous Power	1047 = Not Available
EBIEN	System.FM.CAN.EBIEN	EV CAN: Battery current charge power	
EBOEN	System.FM.CAN.EBOEN	EV CAN: Battery current discharge power	
TTCHG	System.FM.CAN.TTCHG	EV CAN: Remaining Time to Charge	
EBSOC	System.FM.CAN.EBSOC	EV CAN: State of charge	

TNETE	System.FM.CAN.TNETE	EV CAN: Trip net energy usage	
EV RNG	System.FM.CAN.EVRNG	EV CAN: Vehicle range remaining	
LTSSI	System.FM.CAN.LTSSI	FM CAN: Left Turn Indicator	0 = Not Available 1 = On 2 = Off
PBRKS	System.FM.CAN.PBRKS	FM CAN: Park Brake State	0 = Not Set 1 = Set 2 = Error 3 = Not Available
RTSSI	System.FM.CAN.RTSSI	FM CAN: Right Turn Indicator	0 = Not Available 1 = On 2 = Off
FMAPP	FMS.FMAPP	FMS AcceleratorPedalPosition	
FMAAT	FMS.FMAAT	FMS Ambient Air Temperature	
FMBPS	FMS.FMBPS	FMS Brake Pedal Switch	0 = Released 1 = Depressed 2 = Error 3 = Not Available
FMCCS	FMS.FMCCS	FMS Cruise Control Set Speed	
FCCSS	FMS.FCCSS	FMS Cruise Control Set Switch	0 = Off 1 = Hold 2 = Accelerate 3 = Decelerate 4 = Resume 5 = Set 6 = Accelerator Override 7 = Not Available
FMSGR	FMS.FMSGR	FMS Current Gear	
FMTEH	FMS.FMTEH	FMS DM Total engine hours	
DRTNS	FMS.DRTNS	FMS Distance remaining to next service	
FMSCT	FMS.FMSCT	FMS Engine Coolant Temperature ¹	
FMSTQ	FMS.FMSTQ	FMS Engine torque	
FMFWS	FMS.FMFWS	FMS Front Wiper Switch	0 = Off 1 = On
FMLAS	FMS.FMLAS	FMS Load At Current Speed	

FMSPT	FMS.FMSPT	FMS PTO State	0 = Off 1 = Hold 2 = Remote Hold 3 = Standby 4 = Remote Standby 5 = Set 6 = Decelerate Coast 7 = Resume 8 = Accelerate 9 = Accelerator Override 10 to 17 = Preprogrammed Set Speeds 1 to 8 18 to 19 = Set Speed Memory 1 to 2 20 = Not Defined 31 = Not Available
GRSVW	System.CAN.GRSVW	Gross Vehicle Weight	
HRTRP	FMS.HRTRP	High-Res Trip Distance	
RECST	System.FM.CAN.RECST	EV CAN: Recuperation status	0 = Off 1 = Level 1 2 = Level 2 3 = Level 3 4 = Level 4 5 = Level 5
AXLW0	FMS.AXLW0	FMS Vehicle Weight Axle 0	
AXLW1	FMS.AXLW1	FMS Vehicle Weight Axle 1	
AXLW2	FMS.AXLW2	FMS Vehicle Weight Axle 2	
AXLW3	FMS.AXLW3	FMS Vehicle Weight Axle 3	
AXLW4	FMS.AXLW4	FMS Vehicle Weight Axle 4	

¹Availability of this parameter is model dependent

Installation Notes

1. **The script is NOT compatible with TRACERS**
2. The CAN jumpers must be in a position to ONLY allow **read** actions on the CAN bus (Passive Mode)
3. The script supports 29-bit CAN headers.
4. The script only supports a CAN bus with a speed of 250 kb/s
5. Device Drivers: [BAS 1.70k - E15.08.27.xx](#) or later sets are supported

Wiring and Installation Instructions

Renault D E-Tech 2022+	
CAN bus location	At fusebox in passenger side lower dash. Behind lower air vent pipe. OR Behind instrument cluster, yellow connector.
Wire colours & details	CANH: Yellow (0012) and CANL: Green (0013) twisted wires
Can bus speed	CAN_250_kbps

Volvo BZL 2021+	
CAN bus location	Fusebox/ECU compartment at the top of stairs, VECU BBM, green connector OR Behind instrument cluster, green connector. The twisted wires in the middle of the connector will work only.
Wire colours & details	Yellow (CANH) and Green (CANL) wires
Can bus speed	CAN_250_kbps