

Script.CAN.EV.BYD.K9UB.POS5.LC06S44R_L4.ACK_ENBL.v1.0.1.5_MG

BYD K9UB Electric Bus CAN Script



The compatibility of this script can only be guaranteed for:

1. BYD K9UB Electric Bus model
2. Vehicles with a VIN Number that starts with: **LC06S44R_L4**

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-2635	v1.0.0.4	Replaced EBCST with EVICS and added energy calculations
SCR-2666	v1.0.1.5	Updated previous version by adding signals, Engine Speed, Maximum & Minimum cell voltage, Bus Door Position Status, Retarder Status, Brake Pedal Position, High-Res Trip Distance, HV Battery Pack 1 & 2 Nominal Capacity, Motor 1 & Motor 2 Engine Speed & Temperature.
SCR-2666	v1.0.1.5	Convert Script to Production and Enabled Odo sync

Supported Parameters

ACRONYM	PARAMETER NAME	PARAMETER DESCRIPTION	Return values/states (if applicable)
ECMST	System.ECMST	Electronic Control Module Status	
CAN_N	System.Scratch40C	Engine RPM	
HRESD	FMS.HRESD	FMS High resolution odometer	0 to 21 055 400 km
CAN_V	System.Scratch40D	Road speed	
DOORS	CAN.DOORS	Bus Door Position Status	0 = At least 1 door is open 1 = closing last door 2 = all doors closed 3-13 = not defined 14 = Error 15 = not available
EBIEN	System.FM.CAN.EBIEN	EV CAN: Battery current charge power	0 to 500 kW
EBOEN	System.FM.CAN.EBOEN	EV CAN: Battery current discharge power	0 to 1000 kW
EBVST	System.FM.CAN.EBVST	EV CAN: Battery voltage status	0 = Battery Normal/Not Available 1 = Low Battery 2 = Reserved 3 = Reserved
EVICS	System.FM.CAN.EVICS	EV CAN: Charging status	-1 = Not Available 0 = Not charging 1 = Charging
EVDRA	System.FM.CAN.EVDRA	EV CAN: Driver Aircon	0 = On/Not Available 1 = Off
BOKWH	System.FM.CAN.BOKWH	EV CAN: Energy consumed	0 to 4 294 967 295 kWh
AOKWH	System.FM.CAN.AOKWH	EV CAN: Energy consumed by auxiliaries	
BIKWH	System.FM.CAN.BIKWH	EV CAN: Energy generated	0 to 4 294 967 295 kWh
HV1NC	System.FM.CAN.HV1NC	EV CAN: HV Battery Pack 1 Nominal Capacity	0 to 500 Ah
HV2NC	System.FM.CAN.HV2NC	EV CAN: HV Battery Pack 2 Nominal Capacity	0 to 500 Ah
HVCUR	System.FMS.CAN.HVCUR	EV CAN: HVES current	-1000 to 2000 A

HVVOL	System.FMS.CAN.HVVOL	EV CAN: HVESS voltage level	0 to 10000 V
MAXCT	System.FM.CAN.MAXCT	EV CAN: Maximum battery cell temperature	-40 to 210 °C
CVMAX	System.FM.CAN.CVMAX	EV CAN: Maximum cell voltage	0 to 5 V
MINCT	System.FM.CAN.MINCT	EV CAN: Minimum battery cell temperature	-40 to 210 °C
CVMIN	System.FM.CAN.CVMIN	EV CAN: Minimum cell voltage	0 to 5 V
EVMC1	System.FM.CAN.EVMC1	EV CAN: Missing cells group 1	0 = Normal/Not Available 1 = Error 2 = Reserved 3 = Reserved
M1RPM	System.FM.CAN.M1RPM	EV CAN: Motor 1 speed	0 to 20000 RPM
M1TMP	System.FM.CAN.M1TMP	EV CAN: Motor 1 temperature	-40 to 210 °C
M2RPM	System.FM.CAN.M2RPM	EV CAN: Motor 2 speed	0 to 20000 RPM
M2TMP	System.FM.CAN.M2TMP	EV CAN: Motor 2 temperature	-40 to 210 °C
EBSOC	System.FM.CAN.EBSOC	EV CAN: State of charge	0 to 100 %
EVSOH	System.FM.CAN.EVSOH	EV CAN: State of health	0 to 100 %
TNETE	System.FM.CAN.TNETE	EV CAN: Trip net energy usage	0 to 429 496 729.5 kWh
EVRNG	System.FM.CAN.EVRNG	EV CAN: Vehicle range remaining	0 to 4 294 967 295 km
AMBAT	System.FM.CAN.AMBAT	FM CAN: Ambient Air Temperature	-273 to 1 734.968 75 °C
FMAPP	FMS.FMAPP	FMS AcceleratorPedalPosition	0 to 100 %
BDFMS	FMS.BDFMS	FMS Back Door Status	0 = Closed 1 = Open
FMSBV	FMS.FMSBV	FMS Battery Voltage	0 to 40 V
FMSPP	FMS.FMSPP	FMS Brake Pedal Position	0 to 100 %
FMBPS	FMS.FMBPS	FMS Brake Pedal Switch	0 = Brake pedal released 1 = Brake pedal depressed 2 = Error 3 = Not Available
FMSCI	FMS.FMSCI	FMS Cab Interior Temperature	-273 to 1 734.968 75 °C
FMSGR	FMS.FMSGR	FMS Current Gear	-1 to 1
FD FMS	FMS.FDFMS	FMS Front Door Status	0 = Closed 1 = Open

FMSPB	FMS.FMSPB	FMS Parking brake switch	0 = Parking brake not set 1 = Parking brake set 2 = Error 3 = Not available
HRTRP	FMS.HRTRP	High-Res Trip Distance	0 to 21 055 400 km
ERETS	System.FM.CAN.ERETS	Retarder Status	1 = Level 1 2 = Level 2 3 = Level 3 4 = Level 4

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 with J1939 transport protocol active 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

CAN bus location	5) Other
Wire colours & details	
Can bus speed	CAN_250_kbps