

Script.CAN.EV.BYD.BC12A06.POS5.ACK_ENBL.v1.0.0.0

BYD BC12A06 CAN Script



The compatibility if this script can only be guaranteed for:

1. BYD BC12A06 bus chassis

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-2802	v1.0.0.0	New BYD script for BC12A06 bus chassis.
SCR-2802	v1.0.0.0	Converted script to Production & enabled Odo sync.

Supported Parameters

ACRONYM	PARAMETER NAME	PARAMETER DESCRIPTION	Return values/states (if applicable)
HRES	FMS.HRES	FMS High resolution odometer	0 to 21 055 406.075 km
CAN_V	System.Scratch40D	Road speed	0 to 210 km/h
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
RAMPS	CAN.RAMPS	Bus Ramp or Chairlift Position Status	0 = Inside Bus 1 = Outside Bus 2 = Error 3 = Not Available
CHGST	System.FM.CAN.CHGST	EV CAN: Charging Gun Status	0 = Not Connected 1 = Connected 2 = Reserved 3 = Not Available
CHGOK	System.FMS.CAN.CHGOK	EV CAN: Charging Permitted	0 = Not Allowed 1 = Allowed 2 = Reserved 3 = Invalid
EVICS	System.FM.CAN.EVICS	EV CAN: Charging status	-1 = Initialized 0 = Not charging 1 = Charging 6 = Stopped charging 200 = Not Available
BOKWH	System.FM.CAN.BOKWH	EV CAN: Energy consumed	0 to 42949672 kWh
BIKWH	System.FM.CAN.BIKWH	EV CAN: Energy generated	0 to 42949672 kWh
HVBTS	System.FM.CAN.HVBTS	EV CAN: HV Battery State	0 = Normal 6 = Alarm 7 = Not Available
HVCEC	System.FMS.CAN.HVCEC	EV CAN: HVESS Charge Energy Capacity	0 to 1000 kWh
HVDEC	System.FMS.CAN.HVDEC	EV CAN: HVESS Discharge Energy Capacity	0 to 1000 kWh
HVCUR	System.FMS.CAN.HVCUR	EV CAN: HVESS current	-1000 to 1000 A

HVVOL	System.FMS.CAN.HVVOL	EV CAN: HVES voltage level	0 to 1000 V
INPOW	System.FM.CAN.INPOW	EV CAN: Instantaneous Power	-1000 to 1000 kW
M1CTP	System.FM.CAN.M1CTP	EV CAN: Motor 1 Coolant Temperature	-40 to 160 °C
M1MOD	System.FM.CAN.M1MOD	EV CAN: Motor 1 mode	0 = Off 1 = Drive 2 = Regen 15 = Not Available
M1TMP	System.FM.CAN.M1TMP	EV CAN: Motor 1 temperature	-40 to 160 °C
M2CTP	System.FM.CAN.M2CTP	EV CAN: Motor 2 Coolant Temperature	-40 to 160 °C
M2MOD	System.FM.CAN.M2MOD	EV CAN: Motor 2 mode	0 = Off 1 = Drive 2 = Regen 15 = Not Available
M2TMP	System.FM.CAN.M2TMP	EV CAN: Motor 2 temperature	-40 to 160 °C
EBSOC	System.FM.CAN.EBSOC	EV CAN: State of charge	0 to 100 %
SYSFW	System.FM.CAN.SYSFW	EV CAN: System Failure warning	0 = No failure 1 = Failure 2 = Reserved 3 = Not Available
EVRNG	System.FM.CAN.EVRNG	EV CAN: Vehicle range remaining	0 to 10000 km
DIMLS	System.FM.CAN.DIMLS	FM CAN: Dimmed light status	0 = Not Available 1 = On 2 = Off
FFOGL	System.FM.CAN.FFOGL	FM CAN: Front fog light status	0 = Not Available 1 = On 2 = Off
HBLTS	System.FM.CAN.HBLTS	FM CAN: High beam light status	0 = Not Available 1 = On 2 = Off
LTSSI	System.FM.CAN.LTSSI	FM CAN: Left Turn Indicator	0 = Not Available 1 = On 2 = Off
POSLS	System.FM.CAN.POSLS	FM CAN: Position lamp status	0 = Not Available 1 = On 2 = Off
RFOGL	System.FM.CAN.RFOGL	FM CAN: Rear fog light status	0 = Not Available 1 = On 2 = Off

RTSSI	System.FM.CAN.RTSSI	FM CAN: Right Turn Indicator	0 = Not Available 1 = On 2 = Off
SBLTS	System.FM.CAN.SBLTS	FM CAN: Seat Belt State	0 = Not Present 1 = Plugged In 2 = Not Plugged In
ABSWL	System.FM.CAN.ABSWL	FMS ABS/EBS warning light	0 = Off 1 = On 2 = Reserved 3 = Take no action
AAINS	System.FM.CAN.AAINS	FMS ATC-ASR Information Signal	0 = Off 1 = On 2 = Reserved 3 = Take no action
FMAPP	FMS.FMAPP	FMS AcceleratorPedalPosition	0 to 100 %
FMBPS	FMS.FMBPS	FMS Brake Pedal Switch	0 = Released 1 = Depressed 2 = Error 3 = Not Available
EVBLS	System.FM.CAN.EVBLS	EV CAN: Brake Lining Status	0 = Reserved 1 = Normal 2 = Reserved 3 = Alarm
FMSGR	FMS.FMSGR	FMS Current Gear	-1 to 1
ECASW	FMS.ECASW	FMS ECAS warning light	0 = Off 1 = On 2 = Invalid 3 = Reserved
KNINF	System.FM.CAN.KNINF	FMS Kneeling Information	0 = Not active 1 = Lowering active 2 = Kneeling level reached 3 = Lifting active 4 = Kneeling aborted 14 = Error 15 = Not available
FMSPB	FMS.FMSPB	FMS Parking brake switch	0 = Parking brake not set 1 = Parking brake set 2 = Error 3 = Not available

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 kbit/s CAN bus speed
5. Device Drivers: [BAS 1.70k - E15.08.27.xx](#) or later sets are supported

Wiring and Installation Instructions

CAN bus location	5) Other Top Corner
Wire colours & details	CANH: Yellow, CANL: Green, wires labelled XR2.
Can bus speed	250 kbit/s CAN bus speed

