Script.CAN.EV.ANKAI.e-LONDON-BUS.POS5.LA84N1PC_BA.ACK_ENBL.v1.1.0.2_MG

Ankai London Bus Repower CAN Script

The compatibility if this script can only be guaranteed for:

1. Ankai London Bus Repower models
2. Vehicles with a VIN Number that starts with: **LA84N1PC_BA**

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-2627	v1.0.0.0	This script supports the standard system Parameters: Speed, RPM, High Resolution Odometer, Energy Consumed, Energy Generated, Instantaneous Power, Net Trip Energy Usage, State of Charge, State of Health, Charging Status, Accelerator Pedal Position, ABS Active, Brake Pedal Switch, Park Brake Switch, Charger 1 Output Current, Charger 1 Output Voltage, Charger 1 Plug Status, Charger 2 Output Current, Charger 2 Output Voltage, Charger 2 Plug Status, HVESS current, HVESS voltage level, HVESS available charge power, HVESS available discharge power, Maximum battery cell voltage, Minimum battery cell voltage, Battery Pack 1 State of Health, Battery Pack 1 Average Temperature, Battery Pack 2 State of Health, Battery Pack 2 Average Temperature, Battery Pack 3 State of Health, Battery Pack 3 Average Temperature. **The script should be compatible with vehicles with a VIN starting with: LA84N1PC_BA**
SCR-2627	v1.0.0.1	Baud rate changed to 500 kbps. Source address of signals related to HVESS changed from 0xFE to 0x5A.
SCR-2627	v1.0.0.2	Baud rate reverted to 250 kbps.
SCR-2627	v1.0.0.2	Odo sync enabled and converted to Production
SCR-2696	v1.1.0.2	Added Signed Instantaneous Power Parameter

Supported Parameters

ACRONYM	PARAMETER NAME	PARAMETER DESCRIPTION	Return values/states (if applicable)
CANV2	CAN.CANV2	CANV2 - Wheel based speed	
CANV1	CAN.CANV1	CANV1 - Tachograph vehicle speed	
CAN_N	System.Scratch40C	Engine RPM	
HRESD	FMS.HRESD	FMS High resolution odometer	
BOKWH	System.FM.CAN.BOKWH	EV CAN: Energy consumed	
BIKWH	System.FM.CAN.BIKWH	EV CAN: Energy generated	
EBIEN	System.FM.CAN.EBIEN	EV CAN: Battery current charge power	
EBOEN	System.FM.CAN.EBOEN	EV CAN: Battery current discharge power	
INPOW	System.FM.CAN.INPOW	EV CAN: Instantaneous Power	≥ 0 → Charging < 0 → Discharging
TNETE	System.FM.CAN.TNETE	EV CAN: Trip net energy usage	
EBSOC	System.FM.CAN.EBSOC	EV CAN: State of charge	
EVSOH	System.FM.CAN.EVSOH	EV CAN: State of health	
HVCUR	System.FMS.CAN.HVCUR	EV CAN: HVESS current	
HVVOL	System.FMS.CAN.HVVOL	EV CAN: HVESS voltage level	
HVACP	System.FMS.CAN.HVACP	EV CAN: HVESS available charge power	
HVADP	System.FMS.CAN.HVADP	EV CAN: HVESS available discharge power	
CVMAX	System.FM.CAN.CVMAX	EV CAN: Maximum cell voltage	
CVMIN	System.FM.CAN.CVMIN	EV CAN: Minimum cell voltage	
FMAPP	FMS.FMAPP	FMS AcceleratorPedalPosition	

FMBPS	FMS.FMBPS	FMS Brake Pedal Switch	0 = Released 1 = Depressed 2 = Error 3 = Not Available
FMSPB	FMS.FMSPB	FMS Parking brake switch	0 = Disengaged 1 = Engaged 2 = Error 3 = Not Available
FMABS	FMS.FMABS	FMS Anti-Lock Braking (ABS) Active	0 = Not Available 1 = Active 2 = Inactive 3 = Error
SOH01	System.FM.CAN.SOH01	EV CAN: BMS01 State of Health	
EVAT1	System.FM.CAN.EVAT1	EV CAN: Battery Subpack 1 Average Temperature	
SOH02	System.FM.CAN.SOH02	EV CAN: BMS02 State of Health	
EVAT2	System.FM.CAN.EVAT2	EV CAN: Battery Subpack 2 Average Temperature	
SOH03	System.FM.CAN.SOH03	EV CAN: BMS03 State of Health	
EVAT3	System.FM.CAN.EVAT3	EV CAN: Battery Subpack 3 Average Temperature	
EVCC1	System.FM.CAN.EVCC1	EV CAN: Charger 1 Output Current	
EVCV1	System.FM.CAN.EVCV1	EV CAN: Charger 1 Output Voltage	
EVCS1	System.FM.CAN.EVCS1	EV CAN: Charger 1 Plug Status	0 = Not Connected 1 = Connected 2 = Error 3 = SNA
EVCC2	System.FM.CAN.EVCC2	EV CAN: Charger 2 Output Current	
EVCV2	System.FM.CAN.EVCV2	EV CAN: Charger 2 Output Voltage	
EVCS2	System.FM.CAN.EVCS2	EV CAN: Charger 2 Plug Status	0 = Not Connected 1 = Connected 2 = Error 3 = SNA
EVICS	System.FM.CAN.EVICS	EV CAN: Charging status	-1 = Initialization 0 = Not charging 1 = Charging

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

CAN bus location	Under stairs behind driver, harness V-A-1983, connectors L3
Wire colours & details	No Details
Can bus speed	CAN_250_kbps