Script.CAN.J1939.WABCO_EBS.500KBPS.ACK_ENBL.v1.0.0.0_MG

500 KBPS WABCO EBS CAN Script

The compatibility if this script can only be guaranteed for:

1. The script supports SAE J1939 Protocol
2. Vehicle Dynamic Stability data availability is dependent on the vehicle's EBS system

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-2575	v1.0.0.0	First version of Wabco EBS script. Based on: **Script.CAN.J1939.500KBPS.ACK_ENBL.v1.28.0.6_MG** **The script supports all standard J1939 signals and Vehicle Dynamic Stability Control 1 signals.**
SCR-2575	v1.0.0.0	Converted to Production version

Supported Parameters

Currently there is no configuration group to automatically configure the new events in this script.

The following system generated parameters are supported by the script:

- Road Speed (FEF1 or FE6C or FE6E)
- Engine Speed (Revs).
- High-Res ODO Sync. (With 20 km Threshold)
- Fuel Consumption (FEF2 or FEE9 or FD09 or FEAF or Torque fuel)
- ECMST (ELD detection)

Refer to the following link for instructions on how to set up events for the new parameters:

- **Events and Parameter Names - J1939**
- **FMS Telltale Events and Parameter Names - J1939**

ACRONYM	PARAMETER NAME	PARAMETER DESCRIPTION	Return values/states (if applicable)
FMSTQ	FMS.FMSTQ	FMS Engine Torque	
DM1DA	FMS.DM1DA	FMS Active Diagnostic Trouble Codes	
DM2PA	FMS.DM2PA	FMS Previously Active Trouble Codes	
FMSRT	FMS.FMSRT	FMS Retarder Torque	
FMSPP	FMS.FMSPP	FMS Brake Pedal Position	
FMSA1	FMS.FMSA1	FMS Aftertreatment 1 SCR Catalyst Tank Level	
SBAP1	FMS.SBAP1	FMS Service Brake Air Pressure Circuit 1	
SBAP2	FMS.SBAP2	FMS Service Brake Air Pressure Circuit 2	
FMSFD	FMS.FMSFD	FMS Fan Drive State	
FMTEH	FMS.FMTEH	FMS DM Total Engine Hours	
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	
FMSCT	FMS.FMSCT	FMS Engine Coolant Temperature	
FMSET	FMS.FMSET	FMS DM Engine Oil Temperature	

FMSCL	FMS.FMSCL	FMS Coolant Level	
FMSEO	FMS.FMSEO	FMS Engine Oil Level	
FMSOP	FMS.FMSOP	FMS DM Engine Oil Pressure	
FMSBA	FMS.FMSBA	FMS Battery Current	
FMSBV	FMS.FMSBV	FMS Battery Voltage	
FMBPS	FMS.FMBPS	FMS Brake Pedal Switch	0 = Brake released 1 = Brake depressed 2 = Error 3 = Not Available
FMSPT	FMS.FMSPT	FMS PTO State	0 = Off/Disabled 1 = Hold 2 = Remote Hold 3 = Standby 4 = Remote Standby 5 = Set 6 = Decelerate/Coast 7 = Resume 8 = Accelerate 9 = Accelerator Override 10 = Preprogrammed set speed 1 11 = Preprogrammed set speed 2 12 = Preprogrammed set speed 3 13 = Preprogrammed set speed 4 14 = Preprogrammed set speed 5 15 = Preprogrammed set speed 6 16 = Preprogrammed set speed 7 17 = Preprogrammed set speed 8 18 = PTO set speed memory 1 19 = PTO set speed memory 2 20 = PTO set speed memory 3 21-30 = Reserved 31 = Not available
FMSCC	FMS.FMSCC	FMS Cruise Control Active	0 - Off/Disabled 1 – Active
FMSCS	FMS.FMSCS	FMS Clutch Switch	0 = Clutch released 1 = Clutch depressed 2 = Error 3 = Not available
DRTNS	FMS.DRTNS	FMS Distance remaining to next service	
TTDW1	CAN.TELLTALE.TTDW1	TT: DWORD 1	
TTDW2	CAN.TELLTALE.TTDW2	TT: DWORD 2	

B#S##	CAN.TELLTALE.B#S##	TT: Block # Status ## (Block 0-4, Status 1-15)	
SBLTS	System.FM.CAN.SBLTS	FM CAN: Seat Belt State	0 = Not present 1 = Engaged 2 = Disengaged 3 = Reserved
FMMIL	FMS.FMMIL	FMS Engine fault	
FMAPP	FMS.FMAPP	FMS AcceleratorPedalPosition	
HRESD	FMS.HRESD	FMS High resolution odometer	
FMSFL	FMS.FMSFL	FMS Fuel level	
CANTF	System.CAN.CANTF	Total fuel pulses for trip	
FMSPB	FMS.FMSPB	FMS Parking brake switch	0 = Parking brake not set 1 = Parking brake set
RAWFL	System.CAN.RAWFL	Raw FEE9 Life Fuel	
PTOEN	FMS.PTOEN	FMS At Least One PTO Engaged	
GRSVW	System.CAN.GRSVW	Gross Vehicle Weight	
FMSTT	FMS.FMSTT	FMS Transmission Oil Temperature	
BRKPP	FMS.BRKPP	FMS Brake Primary Pressure	
BRKSP	FMS.BRKSP	FMS Brake Secondary Pressure	
VDC11	CAN.VDC1.VDC11	VDC Information Signal	0 = Off 1 = On 2 = Reserved 3 = Don't care/Take no action
VDC12	CAN.VDC1.VDC12	VDC Fully Operational	0 = Not fully operational 1 = Fully operational 2 = Reserved 3 = Don't care/Take no action
VDC13	CAN.VDC1.VDC13	VDC Brake Light Request	0 = Turn brake light not on 1 = Turn brake light on 2 = Reserved 3 = Don't care/Take no action
VDC14	CAN.VDC1.VDC14	ROP Engine Control Active	0 = ROP engine control passive but installed 1 = ROP engine control active 2 = Reserved 3 = Don't care/Take no action

VDC15	CAN.VDC1.VDC15	ROP Brake Control Active	0 = ROP brake control passive but installed 1 = ROP brake control active 2 = Reserved 3 = Don't care/Take no action
VDC16	CAN.VDC1.VDC16	YC Engine Control Active	0 = YC engine control passive but installed 1 = YC engine control active 2 = Reserved 3 = Don't care/Take no action
VDC17	CAN.VDC1.VDC17	YC Brake Control Active	0 = YC brake control passive but installed 1 = YC brake control active 2 = Reserved 3 = Don't care/Take no action
VDC18	CAN.VDC1.VDC18	Trailer VDC Active	0 = VDC passive, but installed 1 = VDC active 2 = Reserved 3 = Not available or not installed

Installation Notes

1. Industry standard for heavy vehicles with a physical layer running - CAN 250kb/s, 29bit IDs
2. This script supports SAE J1939 via a FMS gateway or contactless CAN sensor and should not be directly connected to the hot-bus of a vehicle
3. The CAN jumpers must be in a position to allow ONLY allow Read actions on the CAN bus (Passive Mode). The only exception is when the FMS gateway requires ACK messages to broadcast the data.
4. ODO Synchronization will only take place if the MIX OBC ODO setting and the value read from the CAN bus is within 20 km distance from each other or when the MiX OBC ODO is set to zero.
5. Torque fuel is dependent on Engine type - Therefore manual calibration of Fuel must be done if scripts selects Torque Fuel.