Script.CAN.J1939.250KBPS.NO_TOTAL_ENGINE_HOURS_SYNC.ACK_ENBL.v1.19.1.2_MG

Compatibility:

This script supports SAE J1939 Protocol

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-1455 SCR-1469	v1.14.1.0	First version of new generation scripts. Based on: Script.CAN.J1939.DM_TT_FEF1_FE6C_FE6E_FEF2_FEE9.0250KBPS_02.2019.v1.13.0.0_DC
SCR-1487	v1.14.1.1	The filter of the Brake Switch accepted values of 3, which is not correct. This caused fault triggers.
	v1.14.1.2	Increment version to match the other variants.
SCR-1518	v1.15.0.0	Delta speed, delta RPM and delta pulses added. Trip fuel also added. Added Engine Hours Sync.
SR-8548	v1.16.0.0	Torque fuel added.
SR-8699	v1.17.0.0	Debug parameters specific to this SR added.
SR-8699	v1.17.0.0	Speed sync after speed is received instead of 1 second timer.
SR-8699	v1.17.0.0	Speed and one second timer toggle debug parameters added. Speed sync after speed is received instead of 1 second timer to reduce false harsh braking and harsh acceleration events.
SR-9195	v1.18.0.0	Fix engine hour synchronization.
SCR-1712	v1.19.0.0	Add Park Brake Signal.
SCR-1741	v1.19.0.0	Removed total engine hours synchronization.
SCR-2013	v1.19.0.1	Fixed Fuel Sync Issues.
SCR-2712	v1.19.1.2	Ack Enabled version of script.

Supported Parameters

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 0-3, Status 1-15)	
SBLTS	System.FM.CAN.SBLTS	FM CAN: Seat Belt State	
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	
OSTTT	System.CAN.OSTTT_	One second timer trigger	
OSS1T	System.CAN.OSS1T	One second speed 1 trigger	
OSS2T	System.CAN.OSS2T	One second speed 2 trigger	
OSS3T	System.CAN.OSS3T	One second speed 3 trigger	
FMSPB	FMS.FMSPB	FMS Park Brake Switch	
RAWFL	System.CAN.RAWFL	Raw FEE9 Life Fuel	

Installation Notes

1. **The script is NOT compatible with TRACERS**
2. Industry standard for heavy vehicles with physical layer running CAN 250kbps, 29-bit IDs.
3. The script supports SAE J1939 via FMS gateway or contactless CAN sensor and should not be directly connected to the hot-bus of a vehicle.
4. The CAN jumpers must be in a position to allow ONLY read actions on the CAN bus (passive mode). The only exception is when the FMS gateway requires ACK messages to broadcast the data.
5. ODO synchronization will only take place if the MiX OBC ODO is set to zero.