

Programming of MCS CAN Pedals

Configurable Throttle / Brake Pedal CAN J1939 Information (962 845 43)

PGN=	65411	0xff83
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SPN=	898	Start Byte=2, Byte Len=2
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Parameter provided to the engine from external sources in the torque/speed control message. This is the engine speed which the engine is expected to operate at if the speed control mode is active or the engine speed which the engine is not expected to exceed if the speed limit mode is active.

Byte 1: Access Code								Decimal	Hexdec.
7	6	5	4	3	2	1	0		
1	0	1	0	1	1	0	0	172	0xAC

Byte 2: Idle RPM LSB								Decimal	Hexdec.
7	6	5	4	3	2	1	0		
800 rpm = (32:3)									
0	0	1	0	0	0	0	0	32	0x20

Byte 3: Idle RPM MSB								Decimal	Hexdec.
7	6	5	4	3	2	1	0		
0	0	0	0	0	0	1	1	3	0x03

Byte 4: Full RPM LSB								Decimal	Hexdec.
7	6	5	4	3	2	1	0		
2800 rpm = (240:10)									
1	1	1	1	0	0	0	0	240	0xF0

Byte 5: Full RPM MSB								Decimal	Hexdec.
7	6	5	4	3	2	1	0		
0	0	0	0	1	0	1	0	10	0x0A

Byte 6: new Destination Address								Decimal	Hexdec.
0	1	2	3	4	5	6	7		
1	1	1	0	0	1	1	1	231	0xE7

Byte 7: Option Bits								Decimal	Hexdec.
7	6	5	4	3	2	1	0		
0	0	1	1	0	1	1	1	55	0x37
Bit# indicates this bit is a 1.									
00= Highest Pri, 06=Hi Pri, 70=Med Pri, 76, Lo Pri		0=Ctr not active(Fh), 5=Ctr Active		0=Checksum not active(Fh), 4=Checksum Active		00=Override Disabled, 02=Speed Ctrl, 30=Torq Ctrl, 32=Speed / Torq Lmt		0 (Fixed 0 = -125), 1 (Fixed 125 = 0) 0 (000000b = P1), 1 (111111b = P32)	

Byte 8: Source Address								Decimal	Hexdec.
0	1	2	3	4	5	6	7		
1	1	0	0	1	0	0	0	200	0xC8

Reference:

<https://murcal.atlassian.net/wiki/spaces/EI/pages/2125070349/TSC1+Summary+MTU+1000-1500+series>

Engine Brand	SA Source Address	Byte / SPN's														Notes
		Byte 1.1	Byte 1.3	Byte 1.5	Byte 1.7	Bytes 2 & 3	Byte 4	Byte 5.1	Byte 5.4	Byte 6.1	Byte 6.5	Byte 7	Byte 8.1	Byte 8.5		
SPN's		695	696	897	Not Used	898	518	3349	3350	4191	Not Used	Not Used	4206	4207	SPN's	
MTU 1000-1500 series	231	1	1	0	3	0-64355	0	7	31	31	15	255	0-15	0-15		