

EFI R8 ECU CAN Definition		Rev 1.0.5					
Identifier	0x500						
Data Length	8 bytes						
Frame	11 bit identifier						
Bit Rate	1MBit/s						
Format	Intel						
Packet	Byte	Channel	Description	Data Type	Offset	Scale	Units
0x500	1	SYSRPM	Engine RPM	16 bit	0	1	rpm
	2	x					
	3	TPSE	Throttle Position		0	0.5	deg
	4	CNTOT			0	1	bits
	5	KNK 1	Knock 1		0	0.01953	volts
	6	KNK 2	Knock 2		0	0.01953	volts
	7		Reserved				
	8		Reserved				
0x501	1	SYSSPD	Frontwheel Speed	16 bit	0	1	mph
	2	x					
	3	SPEED	Rearwheel Speed	16 bit	0	1	mph
	4	x					
	5	INJDTY	Injector Duty %	16 bit	0	1	%
	6	x					
	7	FLGALM	Alarm Flags	16 bit	0	1	bits
	8	x					
0x502	1	VBAT	Battery Voltage		0	0.07	volts
	2	VREF	Reference Voltage		0	1	volts
	3	DUTY1	Duty 1		0	0.3906	%
	4	DUTY2	Duty 2		0	0.3906	%
	5		Reserved				
	6	ACCEL	TPS rate		-128	1	bits
	7	GEAR	Gear Position		-1	1	pos
	8	LAT_G	Lateral G		-6.35	0.05	G
0x503	1	MIXPOS	Mixture Position		-12	2	pos
	2	ADVPOS			-12	2	pos
	3	BSTPOS	Boost Switch		1	1	pos
	4	TC_POS	T/C Switch		0	1	pos
	5	SFT_SW	Shift Switch		0	0.01953	volts
	6	PTLIM	Pit limiter Switch		0	1	
	7	BEACN	Beacon		0	0.01953	volts
	8		Reserved				
0x504	1	TAIR	Air Temp		-50	1	deg C
	2	TH2O	Water Temp		-50	1	deg C
	3	TOIL	Oil Temp		-50	1	deg C
	4	TFUEL	Fuel Temp		-50	1	deg C
	5	TBOX	Box Temp		-50	1	deg C
	6	TCDI	CDI Temp		-50	1	deg C
	7	EGT1	EGT 1		-98	4.73	deg C
	8	EGT2	EGT 2		-98	4.73	deg C
0x505	1	MAPE	Airbox Pressure		0	0.5	In Hg

	2	EBPE	Exhaust Pressure		0	0.5	In Hg
	3	FUELE	Fuel Pressure		0	1	psi
	4	OILE	Oil Pressure		0	1	psi
	5		Reserved				
	6		Reserved				
	7		Reserved				
	8		Reserved				
0x506	1	FTINJ	Injection Time	16 bit	0	0.001	mSec
	2	x					
	3	ADVX4	Spark Advance		0	0.25	deg
	4	FASDSP	Injection Phase		0	3	deg
	5	TOTFUL	Fuel Used	16 bit	0	0.01	Gal
	6	x					
	7	ECUCLK	ECU Clock	16 bit	0	1	secs
	8	x					
0x507	1	FLAG0			0	1	bits
	2	FLAG1			0	1	bits
	3	FLAG2	Lambda		0	1	bits
	4	FLAG3	Windup		0	1	bits
	5	FLAG4	Dwell		0	1	bits
	6	FLGCUT	Cut		0	1	bits
	7	FLAG6	IAC		0	1	bits
	8						
0x508	1	DUTY3	Duty 3		0	0.3906	%
	2	DBWE	Pedal Position		0	0.5	deg
	3	DCME	Motor Position		0	0.5	deg
	4	IDLE	Idle Target		0	1	rpm
	5	DUTY4	Duty 4		1	0.3906	%
	6	SLIP SETPOIN	Slip Setpoint		0	0.195	%
	7	SLIP	Slip		0	0.195	%
	8	PCTPWR	Power Cut		0	3.125	%
0x509	1	VANSET	Vanos Setpoint		0	0.25	deg
	2	VNPOS1	Cam 1 Position		0	0.25	deg
	3	VNPOS2	Cam 2 Position		0	0.25	deg
	4	CAMPOS	Sync Position		0	1	deg
	5	DUTY5	Duty 5		0	0.3906	%
	6	DUTY6	Duty 6		0	0.3906	%
	7		Reserved				
	8		Reserved				
0x50A	1	LAM_E1	Lambda 1		0.6	0.005	ratio
	2	LAM_E2	Lambda 2		0.6	0.005	ratio
	3	L1TEMP	Lambda 1 Temp		0	1	ohms
	4	L2TEMP	Lambda 2 Temp		0	1	ohms
	5	HTRDTY	Heater Duty		0	0.3906	%
	6	LAMSET	Lambda Setpoint		0.6	0.005	ratio
	7	LAMCOR	Lambda 1 Correction		-100	0.781	%
	8	LM2COR	Lambda 2 Correction		-100	0.781	%