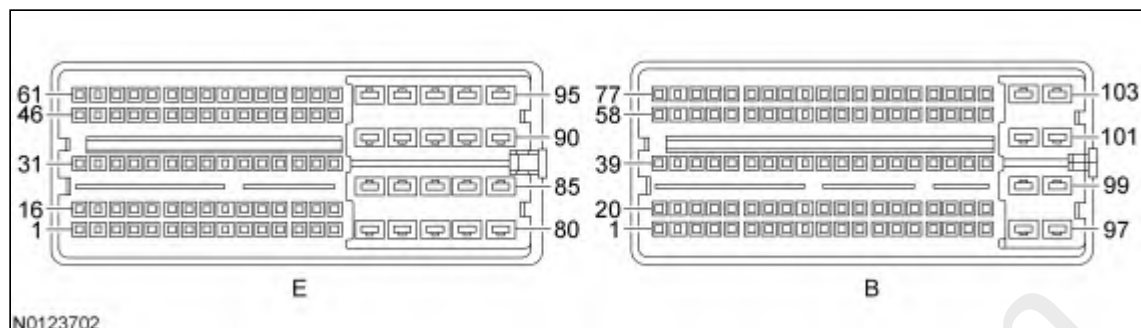


2.3L Mustang**198 Pin PCM****Typical Diagnostic Reference Values**

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
AAT	AAT Sensor	3 (37.4)	3 (37.4)	3 (37.4)	3 (37.4)	DEG C (DEG F)
AAT_V	AAT Sensor	3.83	3.82	3.81	3.81	VOLTS
AC_REQ	PID	NO	NO	NO	NO	YES/NO
APP	APP Sensor	0	0	14.50	22	%
APP1	APP Sensor	0.78	0.78	1.27	1.48	VOLTS
APP1 (APP_D)	APP Sensor	15.68	15.68	25.49	29.41	%
APP2	APP Sensor	0.40	0.40	0.64	0.75	VOLTS
APP2 (APP_E)	APP Sensor	7.84	7.84	12.94	14.90	%
APP_MAXDIFF	PID	0	0	0	0	DEG
B+	PID	12.55	14.90	14.82	14.95	VOLTS
BARO	PID	99 (14.36) 156.11	99 (14.36) 156.11	99 (14.36) 156.11	99 (14.36) 156.11	kPa (PSI)/ Hz
BOO1	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
BOO2	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
BRKOV RD_POSS	PID	13	13	14	14	NUMERIC VALUE
BRKOV R_ACTION	PID	0	0	0	0	NUMERIC VALUE
CHT2	CHT2 Sensor	95 (203)	94 (201.2)	103 (217.4)	101 (213.8)	DEG C (DEG F)
CHT2_V	CHT2 Sensor	3.48	3.48	3.32	3.34	VOLTS

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
CLRDIST	PID	2 (1.24)	2 (1.24)	5.99 (3.72)	5.99 (3.72)	KM (MILES)
CPP_BOT	CPP Switch	NO	NO	NO	NO	YES/NO
CRNKCAS_PR	Crankcase Pressure Sensor	-98 (-0.01)	-279 (-0.04)	592 (0.09)	643 (0.09)	Pa (PSI)
CRNKCAS_P_V	Crankcase Pressure Sensor	3.88	3.80	4.16	4.22	VOLTS
DECHOKE	PID	YES	NO	NO	NO	YES/NO
DIST_BRKOV	PID	4.49 (2.79)	4.49 (2.79)	8.49 (5.28)	7.99 (4.96)	KM (MILES)
ECT	ECT Sensor	0.65/87 (188.6)	0.65/88 (190.4)	0.67/86 (186.8)	0.68/86 (186.8)	VOLTS/DEG C (DEG F)
EQ_RAT11	PID	0:1	14.63:1	14.83:1	14.39:1	RATIO
ETC_ACT	PID	7.50	1.46	7.06	2.56	DEG
ETC_TRIM	PID	0	0	0	0	DEG
FLI	Fuel Level Sensor	15.68 (H)	16.07 (H)	13.33 (H)	14.11 (H)	%
FLP	Fuel Pressure Sensor	718.50 (104.21)	525.50 (76.22)	483.50 (70.13)	496 (71.94)	kPa (PSI)
FLP_V	Fuel Pressure Sensor	4.61	3.44	3.19	3.26	VOLTS
FPM	PID	41	40.98	41	39.99	%
FRP	FRP Sensor	1.35/5600 (812.21)	0.75/1730 (250.92)	0.84/2240 (324.88)	1.33/5570 (807.86)	VOLTS/kPa (PSI)
FRT	FRPT Sensor	16 (60.8)	16 (60.8)	16 (60.8)	16 (60.8)	DEG C (DEG F)
FRT_V	FRT Sensor	0	0	0	0	VOLTS
FTP	FTP Sensor	2.60/-40 (-0.01)	2.42/-340 (-0.05)	1.97/-1.14 kPa (-0.17)	2.45/-289 (-0.04)	VOLTS/Pa (PSI)
FTP_H2O	FTP Sensor	-0.17	-1.48	-4.59	-1.17	NUMERIC VALUE
HTRCM12	HO2S12 Sensor	0	0	0	0	mA
IAT	IAT Sensor	2.61/21 (69.8)	2.87/16 (60.8)	3.19/9 (48.2)	3.18/10 (50)	VOLTS/DEG C (DEG F)
IAT2	IAT2 Sensor	21 (69.8)	23 (73.4)	19 (66.2)	11 (51.8)	DEG C (DEG F)
IAT2_V	IAT2 Sensor	2.60	2.54	2.71	2.83	VOLTS
INJ_F	PID	NO	NO	NO	NO	YES/NO
KEYST	Ignition Switch	ON	ON	ON	ON	ON/OFF
KNK_CNTR_CYL1	PID	0	0	0	0	COUNT
KNK_CNTR_CYL2	PID	0	0	0	0	COUNT
KNK_CNTR_CYL3	PID	0	0	0	0	COUNT
KNK_CNTR_CYL4	PID	0	0	0	0	COUNT

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
KNOCK_1	KS1 Sensor	880	119	111	158	COUNT
KNOCK_2	KS2 Sensor	938	77	69	96	COUNT
LOAD	PID	0.00 (l)	21.56	18.03	19.21	%
LONGFT1	PID	(l)	-20 TO +20	-20 TO +20	-20 TO +20	%
MAP	MAP Sensor	99 (14.36)	30 (4.35)	35 (5.08)	72 (10.44)	kPa (PSI)
MAP_GAUGE	MAP Sensor	2 (0.29) (l)	71 (10.30)	66 (9.57)	29 (4.21)	kPa (PSI)
MAP_V	MAP Sensor	1.60	0.56	0.67	1.24	VOLTS
MIL_DIS	PID	0	0	0	0	KM (MILES)
MISFIRE	PID	NO	NO	NO	NO	YES/NO
MP_LRN	PID	YES	YES	YES	YES	YES/NO
NUM_MISFIRE	PID	0	0	11	11	COUNT
O2S11_CUR	HO2S11 Sensor	(l)	switching	switching	switching	mA/uA
O2S11_IMP	HO2S11 Sensor	5	1.02	1.02	1.02	VOLTS
O2S11_READY	HO2S11 Sensor	NO	YES	YES	YES	YES/NO
O2S11_TR	HO2S11 Sensor	92.70	93.20	92.90	92.90	Kohm
O2S12	HO2S12 Sensor	(l)	switching (D)	switching (D)	switching (D)	VOLTS
OCTADJ_R_LRND	PID	0	0	0	0	%
RO2FT1	PID	0	0.94	1.51	-0.92	%
RPM	CKP Sensor	0	888.75	2099.25	2456.25	RPM
SHRTFT1	PID	(l)	-10 TO +10	-10 TO +10	-10 TO +10	%
SYNC	PID	NO	YES	YES	YES	YES/NO
TCBP	TCBP Sensor	98.83 (14.33)	99.15 (14.38)	102.37 (14.85)	116.85 (16.95)	kPa (PSI)
TCBP_V	TCBP Sensor	1.59	1.60	1.60	1.87	VOLTS
TP1	ETBTPS	17.25	11.37	13.33	20.39	%
TQ_CNTRL	PID	ANTI THEFT	IDLE SPEED CONTROL	NONE REQUESTED	CRUISE CONTROL	STATUS
TURBO_BP1_STAT	TCBY Valve	NO FAULT	NO FAULT	NO FAULT	NO FAULT	FAULT/ NO FAULT
VCTSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN LOOP/ CLOSED LOOP
VCT_EXH_ACT1	PID	0	-0.18	23.37	0.06	DEG
VCT_EXH_DIF1	PID	0	0	42.34	0	DEG
VCT_INT_ACT1	PID	0	0.18	0.18	-17.37	DEG

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
VCT_INT_DIF1	PID	0	0	0	37.26	DEG
VSS	PID	0	0	48 km/h (30 MPH)	89 km/h (55 MPH)	km/h / MPH

Outputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
AEIS_ACTION	PID	1	1	1	1	NUMERIC VALUE
AEIS_POSS	PID	19	19	19	19	NUMERIC VALUE
CYL_1-4_ACCL	PID	(I)	-1 TO +1	-1 TO +1	-1 TO +1	NUMERIC VALUE
DIST_AEIS	PID	0.99 (0.62)	0.99 (0.62)	2.99 (1.86)	2.49 (1.55)	KM (MILES)
ETC [TAC_PCT]	PID	9.41	1.56	8.23	2.74	%
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPCP	EVAPCP Valve	0	12.61	81.87	67.68	%
EVAPCV	CANV Valve	0/OFF	0/OFF	0/OFF	0/OFF	%/ON-OFF
EVAPPCT	PID	0	12.54	81.56	67.45	%
EVAPSOAK	PID	NO	NO	NO	NO	YES/NO
EVAPSTA	PID	NOT RUNNING	NOT RUNNING	NOT RUNNING	NOT RUNNING	STATUS
FP	Fuel Pump Control Module	67.45/OFF	18.32/ON	18.32/ON	18.62/ON	%/ON/OFF
FRP_DSD	PID	540 (78.32)	1770 (256.72)	2850 (413.36)	5720 (829.62)	kPa (PSI)
FUELSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN LOOP/ CLOSED LOOP
F_VCV	Fuel Injection Pump	0	3.11	5.17	12.54	%
HFC	PID	OFF	OFF	OFF	OFF	ON/OFF
HTR11	HO2S11 Sensor	OFF	ON	ON	ON	ON/OFF
HTR12	HO2S12 Sensor	OFF	ON	ON	ON	ON/OFF
HTR21	HO2S21 Sensor	OFF	ON	ON	ON	ON/OFF
HTR22	HO2S22 Sensor	OFF	ON	ON	ON	ON/OFF
INJ1-4_OFF	Injector 1-4	----	----	----	----	----/ DISABLE
LFC	PID	OFF	OFF	OFF	OFF	ON/OFF
MIL	PID	OFF	OFF	OFF	OFF	ON/OFF

Outputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
O2S11_HTR	HO2S11 Sensor	83.13	30.98	30.58	29.02	%
O2_DS_ DISBL	PID	YES	NO	NO	NO	YES/NO
PATSENABL	PID	ENABLED	ENABLED	ENABLED	ENABLED	ENABLED/ DISABLED
RPMDSD	PID	900	900	900	900	RPM
SPARKADV	PID	8	8	44.75	24.75	DEG
TURBO_ BPASS	TCBY Valve	OFF	OFF	OFF	OFF	ON/OFF
TURBO_ WGATE	Turbocharger Wastegate Regulating Valve Solenoid	0	9.96	0	82.77	%
VCT_EXH_ DC1	VCT12 Solenoid	0	0	42.34	0	%
VCT_INT_ DC1	VCT11 Solenoid	0	0	0	37.26	%

Other	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
VPWR	PID	VBAT	VBAT	VBAT	VBAT	VOLTS
VREF	PID	5	5	5	5	VOLTS