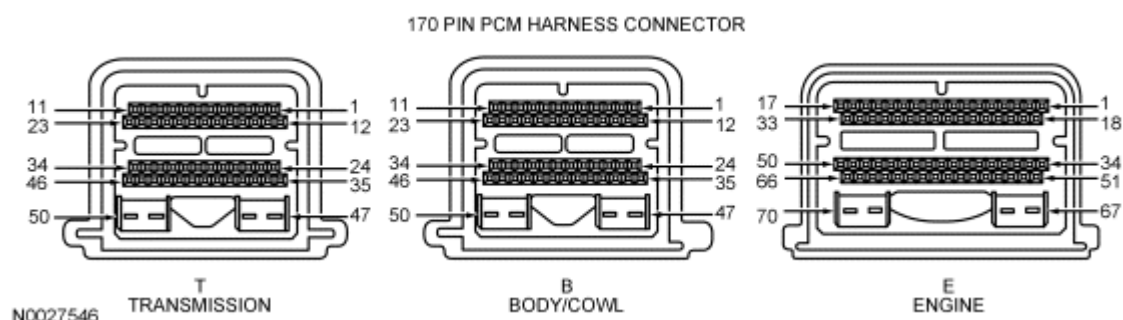


4.6L 3V Mustang



Typical Diagnostic Reference Values

Sensors/Inputs	PCM Pin/PID only	Measured/PID Values				Units Measured/PID
		Ignition On Engine Off	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
FTP	B3	2.61/0.61 (M)	2.53/0.61 (M)	2.59/0.6 (M)	1.5/0.6 (M)	VOLTS/PSI
FTP_H2O	B3	-0.06	-0.61	-0.24	-7.93	in-H ₂ O
APP1	B5	4.08	4.08	3.7	3.41	VOLTS
ACCS	B15	ON	ON (A)	OFF	OFF	ON/OFF
APP2	B17	1.43	1.43	1.72	1.94	VOLTS
FPM	B21	0	0	0	0	%
ACP	B26	OPEN	OPEN	OPEN	OPEN	OPEN/ CLOSED
APP3	B28	0.88	0.88	1.16	1.38	VOLTS
TCS (A/T)	B29	NOT DEPRESSED	NOT DEPRESSED	NOT DEPRESSED	NOT DEPRESSED	DEPRESSED/ NOT DEPRESSED
GENMON	E5	0	28.13	16.41	17.19	%
FRT	E19	2.57/89.6 (K)	2.61/89.6 (K)	3.35/64.4 (K)	3.43/60.8 (K)	VOLTS/DEG F
IAT	E22	2.28/98.6 (K)	2.9/75.2 (K)	3.74/39.2 (K)	3.86/32 (K)	VOLTS/DEG F
MAF (A/T)	E25	0	0.8	1.04	2.74	VOLTS
MAF (M/T)	E25	0	1	1.5	1.3	VOLTS
O2S11	E28	(L)	switching (C)	switching (C)	switching (C)	VOLTS/ RICH-LEAN
O2S21	E29	0	switching (C)	switching (C)	switching (C)	VOLTS/ RICH-LEAN
KNOCK 2	E31	0	81	106	297	N/A
FRP	E32	3.74/56.73	2.74/39	2.75/39.33	2.71/38.65	VOLTS/PSI
CHT	E41	3.59/199.4	3.57/201.2	0.73/179.6	3.56/201.2	VOLTS/DEG F
KNOCK 1	E49	0	69	175	265	N/A
TP2	E60	1.22/24.31	0.74/14.9	1.27/25.1	1.14/22.75	VOLTS/%
TP1	E61	4.12/17.26	4.37/12.16	4.14/16.86	4.11/17.26	VOLTS/%
HTRCM11	E69	1.13	1.13	1.13	1.13	AMPS
HTRCM21	E70	1.14	1.14	1.14	1.14	AMPS

OSS (A/T)	T3	0	0	1385	2400	RPM
OSS (M/T)	T3	0	0	1420	2500	RPM
TSS (A/T)	T15	0	721	890	1674	RPM
TR2 (A/T)	T17	CLOSED	CLOSED	OPEN	OPEN	OPEN/ CLOSED
O2S12	T24	0.22 (L)	0.8 (D)	0.75 (D)	0.73 (D)	VOLTS
O2S22	T25	0.23	0.83 (D)	0.73 (D)	0.81 (D)	VOLTS
TFT (A/T)	T29	0.88/170.6 (K)	0.88/170.6 (K)	1/165.2 (K)	0.87/172.4 (K)	VOLTS/DEG F
HTRCM12	T47	707	707	707	707	mA
HTRCM22	T48	703	703	703	703	mA
APP	PID	0	0	12.5	22.5	%
BARO	PID	14.3/156.2	14.3/156.2	14.3/156.2	14.3/156.2	PSI/Hz
B+	PID	12.69	13-14.5	13-14.5	13-14.5	VOLTS
CPP/PNP	PID	NEUTRAL	NEUTRAL	DRIVE	DRIVE	NEUTRAL/ DRIVE
DECHOKE	PID	YES	NO	NO	NO	YES/NO
ETC_ACT	PID	7.56	1.31	8.41	13.25	DEG
ETC_DSD	PID	7.62	1.31	8.42	13.32	DEG
ETC_TRIM	PID	0.1 (X)	0.1 (X)	0.17 (X)	0.17 (X)	DEG
FLI	PID	0 (H)	64.28 (H)	69.33 (H)	69 (H)	%
GEAR (A/T)	PID	1	1	5	5	GEAR
LOAD	PID	48.93 (L)	15.19	17.79	52.08	%
MISFIRE	PID	NO	NO	NO	NO	YES/NO
MP_LRN	PID	YES	YES	YES	YES	YES/NO
O2BANK1	PID	VARIES	VARIES	VARIES	VARIES	RICH/LEAN
O2BANK2	PID	VARIES	VARIES	VARIES	VARIES	RICH/LEAN
RPM	PID	0	711	1299	1815	RPM
SYNC	PID	NO	YES	YES	YES	YES/NO
TR (A/T)	PID	P	P	OD	OD	POSITION
VSS	PID	0	0	48km/h (30MPH)	89km/h (55MPH)	km/h / MPH

Actuators/Outputs	PCM Pin/PID only	Measured/PID Values				Units Measured/PID
		Ignition On Engine Off	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
FP	B12	75/OFF	21.53/ON	24.31/ON	23.78/ON	%/ON-OFF
EVAPCV	B13	0/OFF	0/OFF	0 (R)/OFF	0 (R)/OFF	%/ON-OFF
WAC/ACCR	B14	OFF	ON (A)	OFF	OFF	ON/OFF
GENCMD	B32	3.57	0 (Q)	0 (Q)	0 (Q)	%
HFC	E4	OFF	ON (B)	OFF	OFF	ON/OFF
EVMV	E6	0/OFF	377/VARYING	0/ VARYING	533/ OFF	mA/OFF- VARYING
LFC	E7	OFF	ON (B)	OFF	OFF	ON/OFF
IMRC	E50	OFF	OFF	OFF	OFF	ON/OFF

VCTDC	E67	0	0	42.53	0	%
VCTDC2	E68	0	0	39.58	0	%
HTR11	E69	OFF (O)	ON	ON	ON	ON/OFF
HTR21	E70	OFF (O)	ON	ON	ON	ON/OFF
TCC (A/T)	T46	0/OFF	0/OFF	0/OFF	100/ ENGAGED	%/OFF- ENGAGED
HTR12	T47	OFF (O)	ON	ON	ON	ON/OFF
HTR22	T48	OFF (O)	ON	ON	ON	ON/OFF
EGR_EVAL	PID	YES	YES	YES	YES	YES/NO
EVAP020C	PID	NO	YES	NO	NO	YES/NO
EVAP020D	PID	ALLOW	ALLOW	ALLOW	ALLOW	ALLOW/ DISALLOW
EVAP020R	PID	NOT READY	NOT READY	NOT READY	NOT READY	READY/NOT READY
EVAPSOAK	PID	NO	YES	YES	YES	YES/NO
EVAPSTA	PID	NOT RUNNING	6-MONITOR COMPLETE	NOT RUNNING	NOT RUNNING	STATUS
EVAP_EVAL	PID	YES	YES	YES	YES	YES/NO
LONGFT1	PID	0 (L)	-2.34 (L)	(-)20 TO (+) 20	(-)20 TO (+) 20	%
LONGFT2	PID	0 (L)	(-)20 TO (+)20	(-)20 TO (+) 20	(-)20 TO (+) 20	%
MIL	PID	OFF	OFF	OFF	OFF	ON/OFF
SHRTFT1	PID	0 (L)	(-)10 TO (+)10	(-)10 TO (+) 10	(-)10 TO (+) 10	%
SHRTFT2	PID	0 (L)	(-)10 TO (+)10	(-)10 TO (+) 10	(-)10 TO (+) 10	%
SPARKADV	PID	10	19.75	34.25	36.75	DEG
TCIL	PID	OFF	OFF	OFF	OFF	ON/OFF
VCTADV	PID	0	0.18	47.88	-0.56	DEG
VCTADV2	PID	0	-0.68	48	-0.81	DEG
VCTADVERR	PID	0	-0.18	0.93	0.56	DEG
VCTADVERR2	PID	0	0.68	-0.62	0.81	DEG

Other	PCM Pin/PID only	Measured/PID Values				Units Measured/PID
		Ignition On Engine Off	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
VPWR	B35/36	12	13- 14.5	13-14.5	13-14.5	VOLTS
VREF	B40/E57	5	5	5	5	VOLTS

