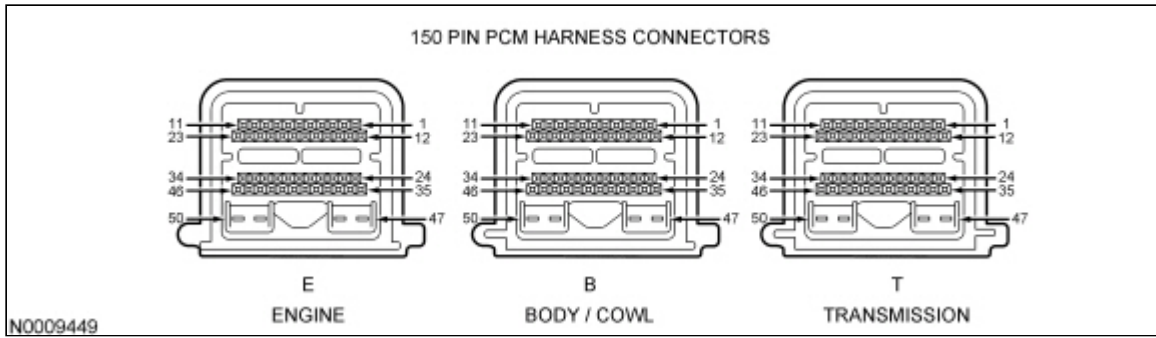


4.6L 2V Crown Victoria/Grand Marquis



Typical Diagnostic Reference Values

Sensors/Inputs	PCM Pin/PID only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
ACCS	B3	0.1/OFF	VBAT/ON (A)	0.1/OFF	0.1/OFF	DCV/OFF-ON
APP1	B5	4.1	4.2	3.9	3.7	DCV
BPS	B7	0.1/OFF	VBAT/ON (E)	0.1/OFF	0.1/OFF	DCV/OFF-ON
BPP	B8	VBAT/OFF	0.1/ON (E)	VBAT/OFF	VBAT/OFF	DCV/OFF-ON
FTP V/FTP	B9	2.6/0	2.6/0	2.6/0	2.6/0	DCV/IN-H2O
ACET	B15	1.9-4.0	1.9-4.0	1.9-4.0	1.9-4.0	DCV
APP2	B17	1.6	1.7	1.9	2.1	DCV
SCCS	B19	5	0.1 (P)	5	5	DCV
RDI	B20	0	0	0	0	DCV
FPM	B21	0.1-VBAT / 0-100	0.1-VBAT / 0-100	0.1-VBAT / 0-100	0.1-VBAT / 0-100	DCV/%
IAT	B26	1.7-3.5/120-50 (K)	1.7-3.5/120-50 (K)	1.7-3.5/120-50 (K)	1.7-3.5/120-50 (K)	DCV/DEG
TCS	B27	0.1/OFF	VBAT/ON (G)	0.1/OFF	0.1/OFF	DCV/OFF-ON
APP3	B28	1.0	1.1	1.3	1.5	DCV
ABSIL_F	B29	0	0	0	0	DCV
ACP	B31	1.1/102	1.1/102	0.6-1.3/80-130	0.6-1.3/80-130	DCV/ PSI

Sensors/Inputs	PCM Pin/PID only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
MAF V	B32	0	0.6-0.9	0.9-1.5	1.4-2.1	DCV
ABSIL_T	B33	0	0	0	0	DCV
ABSIL_D	B37	0	0	0	0	DCV
DOL	B38	0	0	0	0	DCV
PATS IN	B42	VBAT	VBAT	VBAT	VBAT	DCV
FEPS	B44	0.5-0.6	0.5-0.6	0.5-0.6	0.5-0.6	DCV
PSP V/PSP	B46	0.1/LOW	VBAT/HIGH (I)	0.1/LOW	0.1/LOW	DCV/ LOW-HIGH
TP1 NS	E19	4.1	4.4	4.1	4.0	DCV
MAP	E23	4/99	1-1.4/30	1.8-2.1/25	1.9-2.3/25	DCV/kPA
CMP	E25	0	6-7	10-11	13-14	Hz
TP2 PS	E29	0.53-1.27	0.53-1.27	1-1.2	1-1.3	DCV
HO2S11	E30	0	switching (C)	switching (C)	switching (C)	DCV
HO2S21	E31	0	switching (C)	switching (C)	switching (C)	DCV
KS1	E32	0	0	0	0	DCV
CHT V/CHT	E33	0.67 or 3.7/194	0.67 or 3.7/194	0.67 or 3.7/194	0.67 or 3.7/194	DCV/DEG
CKP	E34	0	440-490	560-780	900-1100	Hz
FRT	E36	0.5-3/210-110	0.5-3/210-110	0.5-3/210-110	0.5-3/210-110	DCV/DEG
FRP V/FRP	E37	3.15/46	2.74/39	2.88/41	2.86/40	DCV/OFF-ON
DPFEGR	E44	0.25-1.30	0.25-1.30	0.25-4.65	0.25-4.65	DCV
OSS	T3	0	0	504-544/ 1260-1330	900-972/ 2265-2400	Hz/RPM
TSS	T15	0	340	605	905	Hz
TR 1	T16	0	0	11.5	11.5	DCV
TR 2	T17	0	0	11.5	11.5	DCV
HO2S12	T24	0.1	(D)	(D)	(D)	DCV
HO2S22	T25	0	(D)	(D)	(D)	DCV
TR3 V/TR	T27	0/PARK	0/PARK	1.7/OD	1.7/OD	DCV/MODE
TR 4	T28	0	0	11.5	11.5	DCV
TFT	T29	0.5-2/210-110	0.5-2/210-110	0.5-2/210-110	0.5-2/210-110	DCV/DEG
FLI V/FLI (H)	T30	1.7/50	1.7/50	1.7/50	1.7/50	DCV/%
GENLI	T38	0	130/30	130/27	130/23	Hz/%

Sensors/Inputs	PCM Pin/PID only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
CPP/PNP	PID	ON	ON	OFF	OFF	OFF-ON
GEAR	PID	1	1	3	4	GEAR
LOAD	PID	(L)	15-19	20-26	23-28	%
MISF	PID	OFF	OFF	OFF	OFF	OFF-ON
OCTADJS	PID	NO RETARD	NO RETARD	NO RETARD	NO RETARD	NO RETARD/ RETARD
RPM	PID	0	790-815	1250-1400	1540-1620	RPM

Actuators/ Outputs	PCM Pin/PID only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
PATSTRT/ SMC	B2	0	0	0	0	DCV
FP	B12	VBAT/0	0.1/100	0.1/100	0.1/100	DCV/%
EVAPC V	B13	VBAT/0	VBAT/0	VBAT/0 (R)	VBAT/0 (R)	DCV/%
PATS OUT	B22	10.5	VBAT (A)	VBAT	VBAT	DCV
ACCR (WAC)	B25	VBAT/OFF	0.1/ON (A)	VBAT/OFF	VBAT/OFF	DCV/OFF-ON
EVAPPDC	B34	0	0-10/0-100	0-10/0-100	0-10/0-100	Hz/%
CDA (CYL 1)	E1	VBAT	VBAT	VBAT	VBAT	DCV
INJ1	E2	0	3.4-3.7	3.7-6	5.5-9	mS
INJ2	E3	0	3.4-3.7	3.7-6	5.5-9	mS
INJ3	E4	0	3.4-3.7	3.7-6	5.5-9	mS
INJ4	E5	0	3.4-3.7	3.7-6	5.5-9	mS
EGRVR	E6	VBAT/0	VBAT/0	(T)	(T)	DCV/%
INJ5	E8	0	3.4-3.7	3.7-6	5.5-9	mS
INJ6	E9	0	3.4-3.7	3.7-6	5.5-9	mS
INJ7	E10	0	3.4-3.7	3.7-6	5.5-9	mS
INJ8	E11	0	3.4-3.7	3.7-6	5.5-9	mS
CDD (CYL 2)	E12	VBAT	VBAT	VBAT	VBAT	DCV

Actuators/ Outputs	PCM Pin/PID only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
VFC	E14	0/100	0/100	0/100	0/100	%
CDB (CYL 3)	E24	VBAT	VBAT	VBAT	VBAT	DCV
CDG (CYL 4)	E35	VBAT	VBAT	VBAT	VBAT	DCV
CDF (CYL 5)	E38	VBAT	VBAT	VBAT	VBAT	DCV
CDE (CYL 6)	E39	VBAT	VBAT	VBAT	VBAT	DCV
CDC (CYL 7)	E42	VBAT	VBAT	VBAT	VBAT	DCV
CDH (CYL 8)	E43	VBAT	VBAT	VBAT	VBAT	DCV
TACM (+)	E47	3.7	VBAT	VBAT	VBAT	DCV0
TACM (-)	E48	3.7	VBAT	VBAT	VBAT	DCV
HTR11	E49	0.1/ON (O)	SWITCH	SWITCH	SWITCH	DCV/OFF-ON
HTR21	E50	0.1/ON (O)	0.1/ON	0.1/ON	0.1/ON	DCV/OFF-ON
EPC	T11	7.9/20	9.5/20	9.3/22	9.5/22	DCV/PSI
FCIL	T12	0/OFF	0/OFF	0/OFF	0/OFF	DCV/OFF-ON
SCIL	T13	0	0	0	0	DCV
GEN RC	T19	130/0	0/0	0/0	0/0	Hz/%
ETCIL	T21	0	0	0	0	DCV
MIL	T22	0.1/OFF	VBAT/OFF	VBAT/OFF	VBAT/OFF	DCV/OFF-ON
TCIL	T31	5/OFF	5/OFF	5/OFF	5/OFF	DCV/OFF-ON
CHTIL	T32	4.7/OFF	4.7/OFF	4.7/OFF	4.7/OFF	DCV/OFF-ON
LED OUT	T33	10.5	VBAT (A)	VBAT	VBAT	DCV
VSO	T37	0	0	65	125	Hz
GENIL	T39	0.10	VBAT	VBAT	VBAT	DCV
SSA (SS1)	T42	0.1/ON	0.1/ON	VBAT/OFF	0.1/ON	DCV/OFF-ON
SSB (SS2)	T43	VBAT/OFF	VBAT/OFF	0.1/ON	0.1/ON	DCV/OFF-ON
TCC	T46	0.2/100	VBAT/0	9.9-10.1/42-44	0.3/90-100	DCV/%
HTR12	T47	0.2/ON (O)	SWITCH	SWITCH	SWITCH	DCV/OFF-ON
HTR22	T48	0.2/ON (O)	0.2/ON	0.2/ON	0.2/ON	DCV/OFF-ON
FUEL PW1	PID	(L)	3.4-3.7	3.7-6	5.5-9	mS
FUEL PW2	PID	(L)	3.4-3.7	3.7-6	5.5-9	mS
LONGFT1	PID	(-)20-(+)20	(-)20-(+)20	(-)20-(+)20	(-)20-(+)20	%

Actuators/ Outputs	PCM Pin/PID only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
LONGFT2	PID	(-)20-(+)20	(-)20-(+)20	(-)20-(+)20	(-)20-(+)20	%
SHRTFT1	PID	(L)	(-)10-(+)10	(-)10-(+)10	(-)10-(+)10	%
SHRTFT2	PID	(L)	(-)10-(+)10	(-)10-(+)10	(-)10-(+)10	%
SPARKADV	PID	0	15-20	20-35	32-38	DEG

Other	PCM Pin/PID only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
KAPWR	B45	VBAT	VBAT	VBAT	VBAT	DCV
VPWR	B35/36	VBAT	VBAT	VBAT	VBAT	DCV
VREF	B40/E40	5	5	5	5	DCV
ETCVREF	B4/B24/E18	5	5	5	5	DCV

Note: All generic OBD readings under no load (PARK or NEUTRAL).

GENERIC OBD PID VALUES

PID	Hot Idle	2500 RPM	Units
LONGFT1	(-)20-(+)20	(-)20-(+)20	%
LONGFT2	(-)20-(+)20	(-)20-(+)20	%
LOAD	19-24	19-24	%
MAF	4.7-6	13-16	G/S
SHRTFT1	(-)10-(+)10	(-)10-(+)10	%
SHRTFT2	(-)10-(+)10	(-)10-(+)10	%
SHRTFT11	(-)10-(+)10	(-)10-(+)10	%
SHRTFT12	95-100	95-100	%
SHRTFT21	(-)10-(+)10	(-)10-(+)10	%

PID	Hot Idle	2500 RPM	Units
SHRTFT22	95-100	95-100	%
SPARKADV	15-20	40	DEG

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