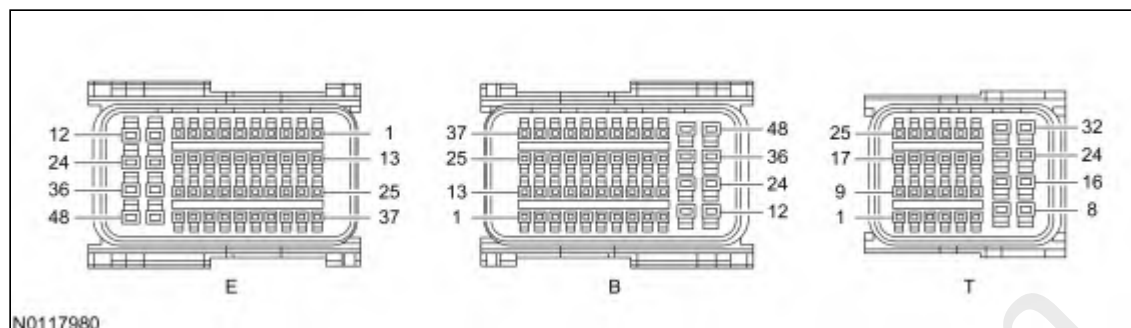


1.0L KA**128 Pin PCM****Typical Diagnostic Reference Values**

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	26 (78.8)	32 (89.6)	28 (82.4)	25 (77)	DEG C (DEG F)
AAT_V	AAT Sensor	2.68	2.38	2.60	2.72	VOLTS
AC_REQ	PID	NO	NO	NO	NO	YES/NO
APP	APP Sensor	0	0	3	19	%
APP_MODE	PID	NO PEDAL	NO PEDAL	PART PEDAL	PART PEDAL	NO PEDAL/ PART PEDAL
APP1	APP Sensor	0.81	0.81	0.92	1.27	VOLTS
APP1 (APP_D)	APP Sensor	16.07	16.07	18.03	25.49	%
APP2	APP Sensor	0.41	0.40	0.46	0.64	VOLTS
APP2 (APP_E)	APP Sensor	8.23	7.84	9.02	12.54	%
APP_MAXDIFF	PID	0	0	0	-0.06	DEG
B+	PID	12.26	12.70	12.98	14.46	VOLTS
BARO	PID	3.93/99 (14.36)/ 156.11	3.93/99 (14.36)/ 156.11	3.92/99 (14.36)/ 156.11	3.92/99 (14.36)/ 156.11	VOLTS/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	4	3	4	4	NUMERIC VALUE

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
BRKOV _R _ACTION	PID	0	0	0	0	NUMERIC VALUE
DECHOKE	PID	YES	NO	NO	NO	YES/NO
DIST_ _R _BRKOV _R D	PID	34.97 (21.73)	7.99 (4.96)	15.49 (9.63)	13.49 (8.38)	KM (MILES)
ECT	ECT Sensor	0.59/90 (194)	0.51/95 (203)	0.66/86 (186.8)	0.60/90 (194)	VOLTS/DEG C (DEG F)
EQ_RAT11	PID	0/0:1	0.99/14.48:1	0.99/14.47:1	1.01/14.72:1	RATIO
ETC_ACT	PID	10.44	1.99	9.24	9.24	DEG
ETC_TRIM	PID	0.42	0.09	0.10	0.10	DEG
FLI	Fuel Level Sensor	46.27 (C)	54.90 (C)	54.11 (C)	49.02 (C)	%
FLP	Fuel Pressure Sensor	684.50 (99.28)	563 (81.66)	592 (85.86)	606 (87.89)	kPa (PSI)
FLP_V	Fuel Pressure Sensor	4.43	3.78	3.84	3.81	VOLTS
FPM	Fuel Pump Control Module	39.99	40.39	40	40.99	%
FRP	FRP Sensor	2.17/11740 (1702.74)	1.05/3910 (567.10)	1.67/8360 (1212.52)	1.31/5760 (835.41)	VOLTS/kPa (PSI)
HTRCM12	HO2S12 Sensor	0	1.74	1.74	1.74	A
IAT	IAT Sensor	1.41/49 (120.2)	1.92/34 (93.2)	1.94/34 (93.2)	2.08/31 (87.8)	VOLTS/DEG C (DEG F)
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
KNOCK_1	KS1 Sensor	167	123	147	153	N/A
LOAD	PID	0.00 (D)	29.41	35.68	32.15	%
LONGFT1	PID	(I)	-20 TO +20	-20 TO +20	-20 TO +20	%
MAP	MAP Sensor	1.60/99 (14.36)	0.66/37 (5.37)	0.85/50 (7.25)	0.86/49 (7.11)	VOLTS/kPa (PSI)
MAP_GAUGE	MAP Sensor	2 (0.29)	64 (9.28)	51 (7.40)	52 (7.54)	kPa (PSI)
MISFIRE	PID	NO	NO	NO	NO	YES/NO
MP_LRN	PID	YES	YES	YES	YES	YES/NO
NUM_MISFIRE	PID	0	0	0	0	COUNT
O2S11_CUR	HO2S11 Sensor	0.00 (D)	switching	switching	switching	mA/uA
O2S11_IMP _E D	HO2S11 Sensor	4.93	1	1	1	VOLTS

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
O2S11_READY	HO2S11 Sensor	NO	YES	YES	YES	YES/NO
O2S11_TR	HO2S11 Sensor	0	0	0	0	Kohm
O2S12	HO2S12 Sensor	(D)	switching (B)	switching (B)	switching (B)	VOLTS
OCTADJ_R_LRND	PID	22.28	22.28	22.28	22.28	%
RO2FT1	PID	0	-1.52	-1.47	1.50	%
RPM	CKP Sensor	0	782.50	1841.50	1669.75	RPM
SHRTFT1	PID	(D)	-10 TO +10	-10 TO +10	-10 TO +10	%
SYNC	PID	NO	YES	YES	YES	YES/NO
TP1	ETBTPS	4.06/18.43	4.45/10.58	4.12/17.25	3.59/27.84	VOLTS/%
TP1_LRN_TRIM	ETBTPS	9.37	9.37	9.37	9.37	DEG
TP2	ETBTPS	0.96/19.21	0.57/11.37	0.90/18.03	1.43/28.23	VOLTS/%
TP2_LRN_TRIM	ETBTPS	9.87	9.87	9.87	9.87	DEG
TPMODE	PID	CT	CT	PT	PT	CLOSED/ PART/WIDE OPEN THROTTLE
TURBO_BP1_STAT	TCBY Valve	NO FAULT	NO FAULT	NO FAULT	NO FAULT	FAULT/ NO FAULT
TURBO_INLET	PID	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	-0.12	27.43	21.75	DEG
VCT_EXH_DIF1	PID	0	0.12	0.50	-1.31	DEG
VCT_INT_ACT1	PID	0	-0.12	-0.31	-0.25	DEG
VCT_INT_DIF1	PID	0	0.12	0.31	0.25	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)	

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	0	0	0	0	NUMERIC VALUE
AEIS_POSS	PID	0	0	0	0	NUMERIC VALUE
ETC [TAC_PCT]	PID	9.80	2.35	11.37	11.37	%
EVAPCP	EVAPCP Valve	0	44.31	97.48	97.51	%
FP	Fuel Pump Control Module	75/OFF	35.35/ON	32.20/ON	32.42/ON	%/ON/OFF
FUELSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN LOOP/ CLOSED LOOP
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
INJ1-3_OFF	Injector 1-3	----	----	----	----	----/ DISABLE
LFC	PID	OFF	OFF	ON	ON	ON/OFF
MIL	PID	OFF	OFF	OFF	OFF	ON/OFF
O2S11_HTR	HO2S11 Sensor	0	54.41	37.64	35.29	%
O2_DS_DISBL	PID	YES	NO	NO	NO	YES/NO
SPARKADV	PID	10	-3.50	33.25	30	DEG
TQ_CNTRL	PID	NONE REQUESTED	IDLE SPEED CONTROL	NONE REQUESTED	NONE REQUESTED	STATUS
VCT_EXH_DC1	VCT12 Solenoid	0	0	46.59	43.76	%
VCT_INT_DC1	VCT11 Solenoid	0	0	0	0	%

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

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