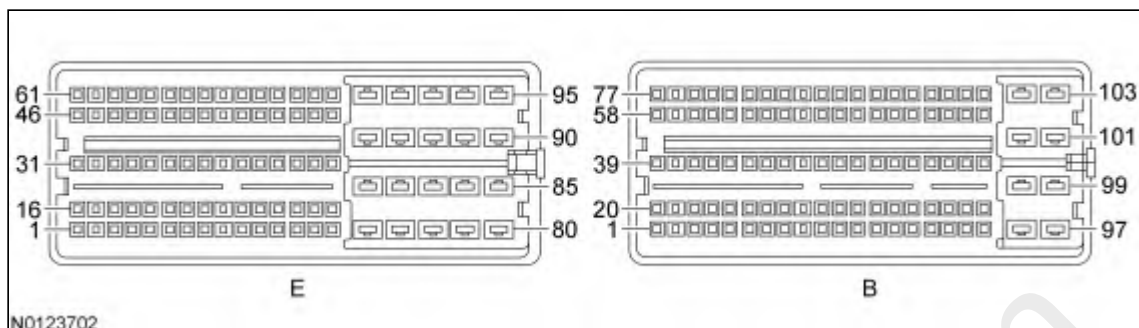


2.0L Continental/Fusion/MKZ**198 Pin PCM****Typical Diagnostic Reference Values**

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	16 (60.80)	15 (59)	13 (55.40)	10 (50)	DEG C (DEG F)
AAT_V	AAT Sensor	3.18	3.22	3.32	3.48	VOLTS
AC_REQ	PID	NO	NO	NO	NO	YES/NO
APP	APP Sensor	0	0	15	31.50	%
APP_MAXDIFF	PID	0	0	0	-0.06	DEG
APP_MODE	PID	NO PEDAL	NO PEDAL	PART PEDAL	PART PEDAL	NO PEDAL/ PART PEDAL
APP1	APP Sensor	0.78	0.78	1.21	1.69	VOLTS
APP1 (APP_D)	APP Sensor	15.68	1568	23.92	33.72	%
APP2	APP Sensor	0.39	0.39	0.61	0.85	VOLTS
APP2 (APP_E)	APP Sensor	7.84	7.84	12.15	16.86	%
B+	PID	12.51	14.38	14.24	14.24	VOLTS
BARO	PID	3.90/97.97 (14.21)/ 155.19/ 393.43	3.90/97.97 (14.21)/ 155.19/ 393.43	3.90/97.97 (14.21)/ 155.19/ 393.43	3.90/97.97 (14.21)/ 155.19/ 393.43	VOLTS/kPa (PSI)/Hz/ in-H ₂ O
BOO1	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
BOO2	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
BRKOV_R_ACTION	PID	0	0	0	0	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 RD_POSS	PID	114	114	115	115	NUMERIC VALUE
CAC_T	CACT Sensor	24 (75.20)	24 (75.20)	16 (60.80)	15 (59)	DEG C (DEG F)
CAC_V	CACT Sensor	2.90	2.91	3.21	3.29	VOLTS
CHT	CHT Sensor	88 (190.40)	89 (192.20)	91 (195.80)	95 (203)	DEG C (DEG F)
CRNK CAS_PRS	Crankcase Pressure Sensor	0	-115 (-0.02)	-63 (-0.01)	-934 (-0.14)	Pa (PSI)
CRNK CAS_P_V	Crankcase Pressure Sensor	3.92	3.87	3.85	3.50	VOLTS
DECHOKE	PID	YES	NO	NO	NO	YES/NO
DIST_BRKOV RD	PID	668.63	668.63	668.63	669.87	KM (MILES)
ECT	ECT Sensor	88 (190.40)	89 (192.20)	91 (195.80)	95 (203)	DEG C (DEG F)
EGT11	EGT Sensor					VOLTS/DEG C (DEG F)
EQ_RAT11	PID	0/0:1	1/14.66:1	1/14.56:1	0.93/13.56:1	RATIO
ETC_ACT	PID	7.54	2.62	3.13	13.72	DEG
ETC_TRIM	PID	0.38 (J)	0.36 (J)	0.35 (J)	0.35 (J)	DEG
FLP	Fuel Pressure Sensor	685.27 (99.39)	730.29 (105.92)	600.33 (87.07)	641.28 (93.01)	kPa (PSI)
FLP_V	Fuel Pressure Sensor	4.14	4.69	3.90	4.15	VOLTS
FP	Fuel Pump Control Module	75/OFF	31.75/ON	33.94/ON	34.34/ON	%/ON/OFF
FRP	FRP Sensor	1.15/3309.14 (479.95)	0.84/1769.54 (256.65)	1.20/3699.04 (536.50)	1.64/5698.52 (826.50)	VOLTS/kPa (PSI)
FTP	FTP Sensor	2.62/0 (0)	2.72/0.14 (0.02)	2.31/-0.48 (-0.07)	2.60/0 (0)	VOLTS/kPa (PSI)
FTP_H2O	FTP Sensor	0	0.70	-2.48	-0.14	in-H ₂ O
IAT	IAT Sensor	1.86/36 (96.80)	1.96/33 (91.40)	2.80/16 (60.80)	2.80/16 (60.80)	VOLTS/DEG C (DEG F)
KNOCK_1	KS1 Sensor	167	28	77	85	N/A
KNOCK_2	KS2 Sensor	167	34	73	87	N/A
LOAD	PID	0 (l)	27.05	18.03	65.09	%
LONGFT1	PID	(l)	-20 TO +20	-20 TO +20	-20 TO +20	%
MAP	MAP Sensor	1.59/97.97 (14.21)	0.63/33.99 (4.93)	0.58/30.96 (4.49)	1.49/91.98 (13.34)	VOLTS/kPa (PSI)
MAP_GAUGE	MAP Sensor	12.04	268.98	281.02	36.13	in-H ₂ O
MISFIRE	PID	NO	NO	NO	NO	YES/NO
MP_LRN	PID	YES	YES	YES	YES	YES/NO

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
NUM_MISFIRE	PID	0	0	0	0	COUNT
O2S11_CUR	HO2S11 Sensor	(I)	switching (C)	switching (C)	switching (C)	uA
O2S11_IMP	HO2S11 Sensor	4.93	1.02	1.01	1.01	VOLTS
O2S11_READY	HO2S11 Sensor	NO	YES	YES	YES	YES/NO
O2S11_TR	HO2S11 Sensor	0	0	0	0	Kohm
O2S12	HO2S12 Sensor	0.85 (D)	0.76 (D)	0.74 (D)	0.58 (D)	VOLTS
OCTADJ_R_LRND	PID	14.29	14.29	14.29	14.29	%
PF_REGEN_PCT	PID					%
RO2FT1	PID	0	-1.33	-1.27	1.09	%
RPM	CKP Sensor	0	745	1891.75	1743	RPM
SHRTFT1	PID	(I)	-10 TO +10	-10 TO +10	-10 TO +10	%
SYNC	PID	NO	YES	YES	YES	YES/NO
TCBP	TCBP Sensor	99.08 (14.37)	99.08 (14.37)	105.21 (15.26)	113.56 (16.47)	kPa (PSI)
TCBP_V	TCBP Sensor	1.60	1.60	1.69	1.82	VOLTS
TP1	ETBTPS	16.07	10.58	14.90	18.82	%
TP1_LRN_TRIM	ETBTPS	9.37	9.37	9.37	9.37	DEG
TP2	ETBTPS	0.82/16.47	0.54/10.58	0.76/15.29	1.03/20.39	VOLTS/%
TP2_LRN_TRIM	ETBTPS	9.37	9.37	9.37	9.37	DEG
TPMODE	PID	PT	CT	PT	PT	CLOSED/ PART/WIDE OPEN THROTTLE
TURBO_BP1_STAT	TCBY Valve	NO FAULT	NO FAULT	NO FAULT	NO FAULT	FAULT/ NO FAULT
VCT_EXH_ACT1	PID	0	0	22.93	29.93	DEG
VCT_EXH_DIF1	PID	0	0	0.06	-1.06	DEG
VCT_INT_ACT1	PID	0	0.18	-0.25	-0.37	DEG
VCT_INT_DIF1	PID	0	-0.18	0.25	0.31	DEG
VCTSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN LOOP/ CLOSED LOOP

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
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)	
ETC [TAC_PCT]	PID	9.41	3.13	14.51	18.82	%
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPCP	EVAPCP Valve	0	12.73	48.74	100	%
EVAPCV	CANV Valve	0/OFF	0/OFF	0/OFF	0/OFF	%/ON-OFF
EVAPSOAK	PID	YES	YES	YES	YES	YES/NO
EVAPSTA	PID	NOT RUNNING	NOT RUNNING	NOT RUNNING	NOT RUNNING	STATUS
FPM	PID	39.99	40.99	40.40	40.01	%
FUELSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN/ CLOSED LOOP
GRILL_A_CMD	PID	0.00/CLOSED	31.76 /VARYING	52.94/ VARYING	61.56/ VARYING	%/OPEN/ CLOSED/ VARYING
GRILL_A_INF	PID	0.00	31.37	50.19	56.47	%
GRILL_CMDCAL	PID	YES	NO	NO	NO	YES/NO
HTR11	HO2S11 Sensor	OFF	ON	ON	ON	ON/OFF
HTR12	HO2S12 Sensor	OFF	ON	ON	ON	ON/OFF
HTRCM12	HO2S12 Sensor	0	573	573	573	mA
MIL	PID	OFF	OFF	OFF	OFF	ON/OFF
O2S11_HTR	HO2S11 Sensor	0	37.64	34.90	33.33	%
O2_DS_DISBL	PID	YES	NO	NO	NO	YES/NO
SPARKADV	PID	10	3.75	12.50	19	DEG
TQ_CNTRL	PID	TORQUE BASED DECEL	IDLE SPEED CONTROL	TRANS-MISSION SHIFT	TORQUE BASED DECEL	STATUS
TURBO_BPASS	TCBY Valve	OFF	OFF	OFF	OFF	ON/OFF
TURBO_WGATE	Turbocharger Wastegate Regulating Valve Solenoid	0	0	54.82	53.73	%

Outputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
VCT_EXH_DC1	VCT12 Solenoid	0	0	38.87	38.20	%
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