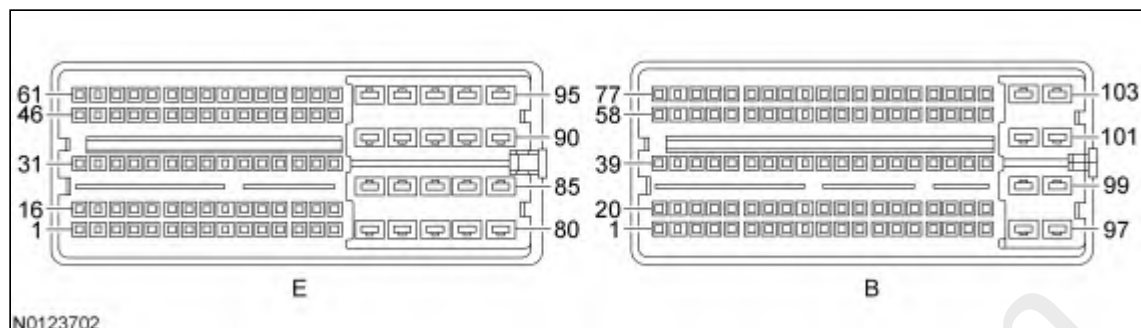


2.7L Continental/Fusion**198 Pin PCM****Typical Diagnostic Reference Values**

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	19 (66.2)	19 (66.2)	18 (64.4)	12 (53.6)	DEG C (DEG F)
AAT_ V	AAT Sensor	3.03	3.04	3.07	3.36	VOLTS
AC_ REQ	PID	NO	NO	NO	NO	YES/NO
APP	APP Sensor	0	0	11	3	%
APP1	APP Sensor	0.78	0.78	1.13	0.89	VOLTS
APP1 (APP_D)	APP Sensor	15.29	15.29	22.35	17.64	%
APP2	APP Sensor	0.39	0.39	0.56	0.44	VOLTS
APP2 (APP_E)	APP Sensor	7.84	7.84	11.37	8.62	%
APP_ MAXDIFF	PID	0	0	0	0	DEG
APP_ MODE	PID	NO PEDAL	NO PEDAL	PART PEDAL	PART PEDAL	NO PEDAL/ PART PEDAL
B+	PID	12.73	14.80	14.74	14.63	VOLTS
BARO	PID	100 (14.50) 157.02	100 (14.50) 157.02	100 (14.50) 157.02	100 (14.50) 157.02	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	72	72	73	73	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)	
BRKOVRACTION	PID	2	2	2	2	NUMERIC VALUE
CAC_T	CACT Sensor	21 (69.8)	20 (68)	23 (73.4)	18 (64.4)	DEG C (DEG F)
CAC_V	CACT Sensor	2.66	2.88	2.56	2.76	VOLTS
CHT	CHT Sensor	85 (185)	84 (183.2)	96 (204.8)	94 (201.2)	DEG C (DEG F)
CHT2	CHT2 Sensor	0.69/86 (186.8)	0.68/86 (186.8)	3.23/106 (222.8)	3.32/103 (217.4)	VOLTS/DEG C (DEG F)
CLRDIST	PID	0	0	4.99 (3.10)	3.99 (2.48)	KM (MILES)
CRNKCAS_PR	Crankcase Pressure Sensor	0	-68 (-0)	-178 (-0.03)	-295 (-0.04)	Pa (PSI)
CRNKCAS_P_V	Crankcase Pressure Sensor	0	3.89	3.83	3.81	VOLTS
DECHOKE	PID	YES	NO	NO	NO	YES/NO
DIST_BRKOVRACTION	PID	77.95 (48.44)	77.95 (48.44)	81.95 (50.92)	81.44 (50.60)	KM (MILES)
DTCCNT	PID	0	0	0	0	Numeric Value
EQ_RAT11	PID	0:1	14.47:1	13.62:1	14.66:1	RATIO
EQ_RAT21	PID	0:1	14.61:1	13.56:1	14.98:1	RATIO
ETC_ACT	PID	7.87	2.49	2.94	8.94	DEG
ETC_TRIM	PID	0.14	0.14	0.16	0.16	DEG
FLI	Fuel Level Sensor	77.25 (H)	77.25 (H)	79.21 (H)	81.17 (H)	%
FLP	Fuel Pressure Sensor	719 (104.28)	528.50 (76.65)	419 (60.77)	508.50 (73.75)	kPa (PSI)
FLP_V	Fuel Pressure Sensor	4.07	3.06	2.86	2.95	VOLTS
FPM	PID	40.99	40.42	39.99	40.40	%
FRP	FRP Sensor	1.02/3110 (451.07)	0.85/2110 (306.03)	1.03/3140 (455.42)	1/3000 (435.11)	VOLTS/kPa (PSI)
FTP	FTP Sensor	2.63/21 (0)	2.22/-693 (-0.10)	2.15/-821 (-0.12)	2.08/-950 (-0.13)	VOLTS/Pa (PSI)
FTP_H2O	FTP Sensor	0.07	-2.79	-3.31	-3.82	NUMERIC VALUE
HTRCM12	HO2S12 Sensor	0	0	1.11	1.11	A
HTRCM22	HO2S22 Sensor	0	0	1.16	1.16	A
IAT	IAT Sensor	2.20/24 (75.2)	2.23/24 (75.2)	2.55/19 (66.2)	2.67/17 (62.6)	VOLTS/DEG C (DEG F)
IAT2	IAT2 Sensor	1.92/36 (96.8)	2.01/34 (93.2)	2.28/28 (82.4)	2.43/25 (77)	VOLTS/DEG C (DEG F)
KEYST	Ignition Switch	ON	ON	ON	ON	ON/OFF
KNK_CNTR_CYL1	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)	
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
KNK_CNTR_CYL5	PID	0	0	0	0	COUNT
KNK_CNTR_CYL6	PID	0	0	0	0	COUNT
KNOCK_1	KS1 Sensor	198	21	29	23	COUNT
KNOCK_2	KS2 Sensor	198	24	33	27	COUNT
LOAD	PID	0.00 (I)	28.62	22.35	38.03	%
LONGFT1	PID	(I)	-20 TO +20	-20 TO +20	-20 TO +20	%
LONGFT2	PID	(I)	-20 TO +20	-20 TO +20	-20 TO +20	%
MAP	MAP Sensor	99 (14.36)	42 (6.09)	35 (5.08)	57 (8.27)	kPa (PSI)
MAP_GAUGE	MAP Sensor	(I)	59 (8.56)	66 (9.57)	44 (6.38)	kPa (PSI)
MAP_V	MAP Sensor	1.52	0.66	0.51	0.88	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
O2S11_CUR	HO2S11 Sensor	(I)	switching	switching	switching	mA/uA
O2S11_IMP	HO2S11 Sensor	4.92	1.02	1.02	1.02	VOLTS
O2S11_READY	HO2S11 Sensor	NO	YES	YES	YES	YES/NO
O2S11_TR	HO2S11 Sensor	0	0	0	0	Kohm
O2S12	HO2S12 Sensor	(I)	switching (D)	switching (D)	switching (D)	VOLTS
O2S21_CUR	HO2S21 Sensor	(I)	switching	switching	switching	mA/uA
O2S21_IMP	HO2S21 Sensor	4.93	1.01	1.01	1.01	VOLTS
O2S21_READY	HO2S21 Sensor	NO	YES	YES	YES	YES/NO
O2S21_TR	HO2S21 Sensor	0	0	0	0	Kohm
O2S22	HO2S22 Sensor	(I)	switching (D)	switching (D)	switching (D)	VOLTS
OCTADJ_R_LRND	PID	9.39	9.39	9.39	9.39	%
OSS_SRC	OSS Sensor	0	0	1308	1817.75	RPM
RO2FT1	PID	0	1.20	-1.47	0	%
RO2FT2	PID	0	1.13	-1.51	1.74	%
RPM	CKP Sensor	0	590.50	1272.50	1782.25	RPM

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
SHRTFT1	PID	(I)	-10 TO +10	-10 TO +10	-10 TO +10	%
SHRTFT2	PID	(I)	-10 TO +10	-10 TO +10	-10 TO +10	%
SYNC	PID	NO	YES	YES	YES	YES/NO
TCBP	TCBP Sensor	100.13 (14.52)	100.13 (14.52)	100.45 (14.57)	101.57 (14.73)	kPa (PSI)
TCBP_V	TCBP Sensor	1.52	1.52	1.54	1.55	VOLTS
TP1	ETBTPS	4.18/16.07	4.48/10.19	4/19.21	3.95/20.78	VOLTS/%
TP1_LRN_TRIM	ETBTPS	9.25	9.25	9.25	9.25	DEG
TP2	ETBTPS	0.81/16.07	0.52/10.19	0.60/12.15	0.89/17.25	VOLTS/%
TP2_LRN_TRIM	ETBTPS	9.25	9.25	9.25	9.25	DEG
TP_MAXDIFF	PID	0	0	-0.60	-0.18	%
TQ_CNTRL	PID	TORQUE BASED DECEL	IDLE SPEED CONTROL	ENGINE SPEED DESIRED	NONE REQUESTED	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	-0.12	0.18	39.81	DEG
VCT_EXH_ACT2	PID	0	0.12	0.12	40	DEG
VCT_EXH_DIF1	PID	0	0.12	0	2.43	DEG
VCT_EXH_DIF2	PID	0	0.06	-0.06	2.06	DEG
VCT_INT_ACT1	PID	0	-0.18	-0.18	-9.68	DEG
VCT_INT_ACT2	PID	0	-0.12	0.12	-7.93	DEG
VCT_INT_DIF1	PID	0	0.18	0.06	0	DEG
VCT_INT_DIF2	PID	0	0.31	-0.06	0	DEG
VSS	PID	0	0	48 km/h (30 MPH)	89 km/h (55 MPH)	km/h / MPH
WGATE_PRES	Wastegate Vacuum Sensor	98.50 (14.29)	98.50 (14.29)	60 (8.70)	39 (5.66)	kPa (PSI)
WGATE_V	Wastegate Vacuum Sensor	4.30	4.30	2.76	1.92	VOLTS

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
WGATE_VAC_INF	PID	0	1 (0.15)	39.50 (5.73)	60.50 (453.79)	kPa (PSI)

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	149	149	153	153	NUMERIC VALUE
CYL_1-6_ACCL	PID	(I)	-1 TO +1	-1 TO +1	-1 TO +1	NUMERIC VALUE
DIST_AEIS	PID	145.90 (90.66)	145.90 (90.66)	147.90 (91.90)	147.40 (91.59)	KM (MILES)
ETC [TAC_PCT]	PID	9.41	2.74	3.52	10.58	%
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPCP	EVAPCP Valve	0	41.53	81.33	60.78	%
EVAPCV	CANV Valve	0/OFF	0/OFF	0/OFF	0/OFF	%/ON-OFF
EVAPPCT	PID	0	41.17	81.17	60.78	%
EVAPSOAK	PID	NO	NO	NO	NO	YES/NO
EVAPSTA	PID	NOT RUNNING	NOT RUNNING	NOT RUNNING	NOT RUNNING	STATUS
EVBV	EVAP Vapor Blocking Valve	0/OPEN	0/OPEN	100/CLOSED	100/CLOSED	%/OPEN-CLOSED
FP	Fuel Pump Control Module	75/OFF	24.06/ON	23.27/ON	23.34/ON	%/ON/OFF
FRP_DSD	PID	370 (53.66)	2060 (298.78)	2900 (420.61)	3030 (439.46)	kPa (PSI)
FUELSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN LOOP/CLOSED LOOP
F_VCV	Fuel Injection Pump	0	1.94	2.07	18.79	%
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
INJ1-6_OFF	Injector 1-6	----	----	----	----	----/ DISABLE
LFC	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)	
MIL	PID	OFF	OFF	OFF	OFF	ON/OFF
O2S11_HTR	HO2S11 Sensor	0	42.74	34.11	32.94	%
O2S21_HTR	HO2S21 Sensor	0	40.78	34.11	32.94	%
O2_DS_ DISBL	PID	YES	NO	NO	NO	YES/NO
PATSENABL	PID	ENABLED	ENABLED	ENABLED	ENABLED	ENABLED/ DISABLED
SPARKADV	PID	10	6.75	28.75	40.50	DEG
TURBO_ BPASS	TCBY Valve	OFF	OFF	OFF	OFF	ON/OFF
TURBO_ WGATE	Turbocharger Wastegate Regulating Valve Solenoid	0	0	0	64.88	%
VCT_EXH_ DC1	VCT12 Solenoid	0	0	42.69	45.57	%
VCT_EXH_ DC2	VCT22 Solenoid	0	0	42.42	45.05	%
VCT_INT_ DC1	VCT11 Solenoid	0	0	0	32.82	%
VCT_INT_ DC2	VCT21 Solenoid	0	0	0	36.62	%

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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