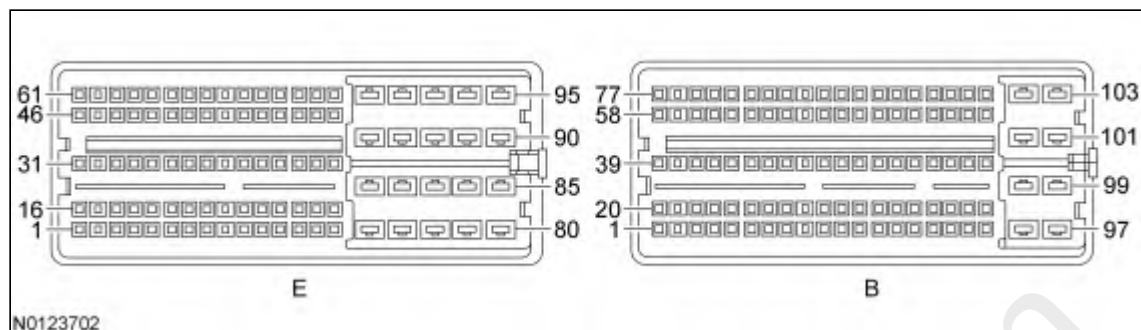


2.0L Edge / Nautilus**198 Pin PCM****Typical Diagnostic Reference Values**

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 (60.8)	16 (60.8)	12 (53.6)	12 (53.6)	DEG C (DEG F)
AAT_V	AAT Sensor	3.18	3.18	3.41	3.42	VOLTS
AC_REQ	PID	NO	NO	NO	NO	YES/NO
APP	APP Sensor	0	0	17	12	%
APP1	APP Sensor	0.79	0.79	1.34	1.19	VOLTS
APP1 (APP_D)	APP Sensor	15.68	15.68	26.66	23.52	%
APP2	APP Sensor	0.40	0.40	0.67	0.60	VOLTS
APP2 (APP_E)	APP Sensor	7.84	7.84	13.33	11.76	%
APP_ MAXDIFF	PID	0	0	0.06	0.06	DEG
B+	PID	12.52	14.71	14.54	14.51	VOLTS
BARO	PID	100 (100) 157.02	100 (100) 157.02	100 (100) 157.02	100 (100) 157.02	kPa (PSI)/ Hz
BARO_V	PID	3.91	3.91	3.91	3.91	VOLTS
BOO1	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
BOO2	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
BRKOV RD_ POSS	PID	6	6	7	7	NUMERIC VALUE
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)	
CAM_SYNC	PID	NO	NO	NO	NO	YES/NO
CHT2	CHT2 Sensor	103 (217.4)	91 (195.8)	101 (213.8)	99 (210.2)	DEG C (DEG F)
CHT2_V	CHT2 Sensor	3.29	3.49	3.36	3.42	VOLTS
CLRDIST	PID	2 (1.24)	2 (1.24)	8.99 (5.59)	6.99 (4.34)	KM (MILES)
CRNKCAS_PR	Crankcase Pressure Sensor	84 (0.01)	125 (0.02)	154 (0.02)	215 (0.03)	Pa (PSI)
CRNKCAS_P_V	Crankcase Pressure Sensor	3.36	3.36	3.37	3.39	VOLTS
DECHOKE	PID	YES	NO	NO	NO	YES/NO
DIST_BRKOV	PID	88.94 (55.26)	88.94 (55.26)	94.94 (58.99)	92.94 (57.75)	KM (MILES)
DPFE_PRES	Differential Pressure Feedback EGR Sensor	-0.39 (-0.06)	-0.39 (-0.06)	4.36 (0.63)	3.14 (0.46)	kPa (PSI)
DTCCNT_OBD	PID	0	0	0	0	NUMERIC VALUE
EBP_V	EBP Sensor	0.98	0.98	1.05	0.98	VOLTS
ECT	ECT Sensor	0.62/87 (188.6)	0.59/89 (192.2)	0.65/85 (185)	0.63/87 (188.6)	VOLTS/DEG C (DEG F)
EGRT_B_V	EGRT12 Sensor	1.31	1.26	0.34	0.33	VOLTS
EGRVP	EGR Valve	0.90	0.90	1.75	1.69	VOLTS
EQ_RAT11	PID	0:1	14.74:1	14.61:1	14.44:1	RATIO
ETC_ACT	PID	12.63	2.07	5.78	9.53	DEG
ETC_TRIM	PID	-0.27	-0.29	-0.21	-0.21	DEG
FLI	Fuel Level Sensor	61.96 (H)	61.56 (H)	54.90 (H)	55.29 (H)	%
FLP	Fuel Pressure Sensor	584 (84.70)	552 (80.06)	556 (80.64)	541.50 (78.54)	kPa (PSI)
FLP_V	Fuel Pressure Sensor	3.79	3.60	3.62	3.54	VOLTS
FPM	PID	39.40	40.40	40.40	40.40	%
FRP	FRP Sensor	2.54 (368.40)	1.56 (226.26)	5.45 (790.46)	9.33 (1353.20)	MPa (PSI)
FRP_V	FRP Sensor	0.78	0.67	1	1.55	VOLTS
FRT	FRPT Sensor	16 (60.8)	16 (60.8)	16 (60.8)	16 (60.8)	DEG C (DEG F)
FTP	FTP Sensor	2.65/64 (0.01)	2.61/-5 (0.00)	2.28/-598 (-0.09)	2.60/-22 (0.00)	VOLTS/Pa (PSI)
FTP_H2O	FTP Sensor	0.24	-0.03	-2.41	-0.10	NUMERIC VALUE
HTRCM12	HO2S12 Sensor	0	0	0	0	mA
IAT	IAT Sensor	2.03/34 (93.2)	2.03/34 (93.2)	2.62/21 (69.8)	2.72/19 (66.2)	VOLTS/DEG C (DEG F)
IAT2	IAT2 Sensor	39 (102.2)	37 (98.6)	27 (80.6)	27 (80.6)	DEG C (DEG F)
IAT2_V	IAT2 Sensor	1.81	1.88	2.34	2.34	VOLTS

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
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
KNK_CNTR_ CYL4	PID	0	0	0	0	COUNT
KNOCK_1	KS11 Sensor	999	74	106	74	COUNT
KNOCK_2	KS12 Sensor	999	62	111	77	COUNT
LOAD	PID	0.00 (I)	41.96	52.15	30.98	%
LONGFT1	PID	(I)	-20 TO +20	-20 TO +20	-20 TO +20	%
MAP	MAP Sensor	100 (14.50)	41 (5.95)	78 (11.31)	61 (8.85)	kPa (PSI)
MAP_GAUGE	MAP Sensor	(I)	60 (8.70)	23 (3.34)	40 (5.80)	kPa (PSI)
MAP_V	MAP Sensor	1.53	0.62	1.23	0.93	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
NUM_ MISFIRE	PID	0	0	1	1	COUNT
O2S11_CUR	HO2S11 Sensor	(I)	switching	switching	switching	mA/uA
O2S11_ IMPED	HO2S11 Sensor	5	0.17	0.17	0.17	VOLTS
O2S11_ READY	HO2S11 Sensor	NO	YES	YES	YES	YES/NO
O2S12	HO2S12 Sensor	(I)	switching (D)	switching (D)	switching (D)	VOLTS
OCTADJ_R_ LRND	PID	16.51	16.51	8.86	8.86	%
OSS_RAW	OSS Sensor	0	0	1310	2474	RPM
RO2FT1	PID	0	0	-1.13	2.45	%
RPM	CKP Sensor	0	750.50	1910.50	1830.50	RPM
SHRTFT1	PID	(I)	-10 TO +10	-10 TO +10	-10 TO +10	%
SYNC	PID	NO	YES	YES	YES	YES/NO
TCBP	TCBP Sensor	97.39 (14.13)	97.66 (14.16)	97.83 (14.19)	98.47 (14.28)	kPa (PSI)
TCBP_V	TCBP Sensor	1.42	1.42	1.43	1.44	VOLTS
TP1	ETBTPS	18.03	8.62	12.94	14.51	%
TQ_CNTRL	PID	IDLE SPEED CONTROL	IDLE SPEED CONTROL	CRUISE CONTROL	CRUISE CONTROL	STATUS

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
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	-0.37	29.25	20.31	DEG
VCT_EXH_ DIF1	PID	0	0.37	-0.12	-0.31	DEG
VCT_INT_ ACT1	PID	0	0.25	0.18	-24.75	DEG
VCT_INT_ DIF1	PID	0	-0.25	-0.18	2	DEG
VSS	PID	0	0	48 km/h (30 MPH)	89 km/h (55 MPH)	km/h / MPH
WGATE_A_ POS_PCT	Turbocharger Wastegate Motor 1	98.29	0	43.15	96.55	%
WGATE_A_V	Wastegate Vacuum Sensor	4.04	1.47	2.64	4.04	VOLTS

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	24	24	24	24	NUMERIC VALUE
CYL_1- 4_ACCL	PID	(I)	-1 TO +1	-1 TO +1	-1 TO +1	NUMERIC VALUE
DIST_ AEIS	PID	0	0	0	0	KM (MILES)
ETC [TAC_PCT]	PID	9.02	2.35	6.66	10.98	%
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPCP	EVAPCP Valve	0	52.88	56.33	58.31	%
EVAPCV	CANV Valve	0/OFF	0/OFF	0/OFF	0/OFF	%/ON-OFF
EVAPPCT	PID	0	52.54	56.07	58.03	%
EVAPSOAK	PID	YES	YES	YES	YES	YES/NO
EVAPSTA	PID	NOT RUNNING	NOT RUNNING	NOT RUNNING	NOT RUNNING	STATUS

Outputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
EVBV	EVAP Vapor Blocking Valve	0/OPEN	0/OPEN	100/CLOSED	100/CLOSED	%/OPEN-CLOSED
FP	Fuel Pump Control Module	75/OFF	28.44/ON	28.71/ON	28.94/ON	%/ON/OFF
FRP_DSD	PID	0.40 (58.02)	1.51 (219.01)	5.53 (802.06)	9.14 (1325.65)	MPa (PSI)
FUELSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN LOOP/CLOSED LOOP
F_VCV	Fuel Injection Pump	0	3.39	5.44	6.48	%
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
INJ1-4_OFF	Injector 1–4	----	----	----	----	-----/ DISABLE
LFC	PID	OFF	OFF	OFF	OFF	ON/OFF
MIL	PID	OFF	OFF	OFF	OFF	ON/OFF
O2S11_HTR	HO2S11 Sensor	20.39	27.84	23.52	24.31	%
O2_DS_DISBL	PID	YES	YES	NO	NO	YES/NO
PATSENABL	PID	ENABLED	ENABLED	ENABLED	ENABLED	ENABLED/ DISABLED
RPMDS	PID	750	750	750	750	RPM
SPARKADV	PID	10	8	42	21.75	DEG
TURBO_BPASS	TCBY Valve	OFF	OFF	OFF	OFF	ON/OFF
TURBO_WGATE	Turbocharger Wastegate Regulating Valve Solenoid	0	0	0	0	%
VCT_EXH_DC1	VCT12 Solenoid	0	0	43.02	42.23	%
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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