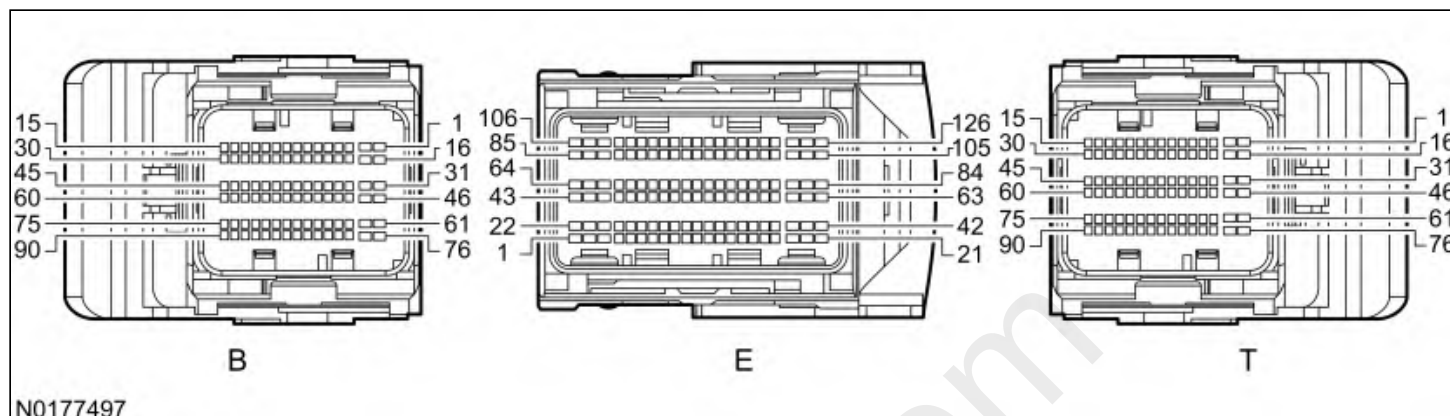


2.7L Edge / Nautilus**306 Pin PCM****Typical Diagnostic Reference Values**

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	36 (96.8)	36 (96.8)	15 (59)	8 (46.4)	DEG C (DEG F)
AAT_V	AAT Sensor	2.15	2.17	3.26	3.59	VOLTS
AC_REQ	PID	NO	NO	NO	NO	YES/NO
APP	APP Sensor	0	0	15	11.50	%
APP1	APP Sensor	0.80	0.80	1.04	1.17	VOLTS
APP1 (APP_D)	APP Sensor	15.68	15.68	26.66	23.52	%
APP2	APP Sensor	0.40	0.40	0.62	0.59	VOLTS
APP2 (APP_E)	APP Sensor	7.84	7.84	13.33	11.76	%
APP_MAXDIFF	PID	0	0	0	0	DEG
B+	PID	12.33	13.23	13.04	13.37	VOLTS
BARO	PID	99 (14.36) 156.11	99 (14.36) 156.11	99 (14.36) 156.11	99 (14.36) 156.11	kPa (PSI)/ Hz
BARO_V	PID	3.86	3.86	3.86	3.86	VOLTS
BOO1	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
BOO2	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
BRKOV RD_POSS	PID	39	39	40	40	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)	
BRKOVRR_ACTION	PID	0	0	0	0	NUMERIC VALUE
CAC_T	CACT Sensor	24 (75.2)	23 (73.4)	20 (68)	16 (60.8)	DEG C (DEG F)
CAC_V	CACT Sensor	2.52	2.58	2.69	2.92	VOLTS
CAM_SYNC	PID	NO	YES	YES	YES	YES/NO
CHT2	CHT2 Sensor	90 (194)	92 (197.6)	98 (208.4)	105 (221)	VOLTS/DEG C (DEG F)
CHT2_V	CHT2 Sensor	0.57	0.54	3.44	3.23	VOLTS
CLRDIST	PID	311.93 (193.82)	311.93 (193.82)	317.93 (197.55)	315.93 (196.31)	KM (MILES)
CRNKCAS_PRS	Crankcase Pressure Sensor	-4 (0)	51 (0.01)	-29 (0)	145 (0.02)	Pa (PSI)
CRNKCAS_P_V	Crankcase Pressure Sensor	3.92	3.95	3.92	3.99	VOLTS
DECHOKE	PID	YES	NO	NO	NO	YES/NO
DIST_BRKOVRRD	PID	391.25 (243.11)	391.25 (243.11)	396.75 (246.53)	394.75 (245.29)	KM (MILES)
DTCNT_OBD	PID	0	0	0	0	NUMERIC VALUE
ECT	ECT Sensor	0.60/88 (190.4)	0.60/88 (190.4)	0.55/92 (197.6)	0.51/94 (201.2)	VOLTS/DEG C (DEG F)
EQ_RAT11	PID	0:1	14.65:1	15.49:1	14.04:1	RATIO
EQ_RAT21	PID	0:1	14.67:1	13.06:1	14.76:1	RATIO
ETC_ACT	PID	6.57	1.70	13.46	44.70	DEG
ETC_TRIM	PID	-0.30	-0.30	-0.33	-0.33	DEG
FLI	Fuel Level Sensor	32.94 (H)	32.94 (H)	34.11 (H)	34.11 (H)	%
FLP	Fuel Pressure Sensor	561.50 (81.44)	533.50 (77.38)	526 (76.29)	542 (78.61)	kPa (PSI)
FLP_V	Fuel Pressure Sensor	3.66	3.49	3.44	3.48	VOLTS
FPM	PID	40.39	39.99	40.39	27.29	%
FRP	FRP Sensor	5.29 (767.25)	4.53 (657.02)	8.13 (1179.16)	10.93 (1585.26)	VOLTS/MPa (PSI)
FRP_V	FRP Sensor	0.95	0.85	1.33	1.71	VOLTS
FRT	FRPT Sensor	28 (82.4)	28 (82.4)	30 (86)	30 (86)	DEG C (DEG F)
FRT_V	FRT Sensor	2.28	2.29	2.31	2.18	VOLTS
FTP	FTP Sensor	2.61/-14 (0)	2.23/-684 (-0.10)	2.33/-512 (-0.07)	2.56/-100 (-0.01)	VOLTS/Pa (PSI)
FTP_H2O	FTP Sensor	-0.07	-2.76	-2.21	-0.41	NUMERIC VALUE
IAT	IAT Sensor	1.83/38 (100.4)	1.83/38 (100.4)	2.70/19 (66.2)	2.71/19 (66.2)	VOLTS/DEG C (DEG F)
IAT2	IAT2 Sensor	44 (111.2)	42 (107.6)	22 (71.6)	20 (68)	DEG C (DEG F)
IAT2_V	IAT2 Sensor	1.57	1.66	2.57	2.66	VOLTS

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
INJ_F	PID	NO	NO	NO	NO	YES/NO
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
KNK_CNTR_CYL5	PID	0	0	0	0	COUNT
KNK_CNTR_CYL6	PID	0	0	0	0	COUNT
KNOCK_1	KS11 Sensor	1199	33	63	50	COUNT
KNOCK_2	KS12 Sensor	1199	34	52	45	COUNT
LOAD	PID	0.00 (I)	34.11	29.02	82.35	%
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	98 (14.21)	39 (5.66)	38 (5.51)	98 (14.21)	kPa (PSI)
MAP_GAUGE	MAP Sensor	(I)	62 (8.99)	62 (8.99)	3 (0.44)	kPa (PSI)
MAP_V	MAP Sensor	1.50	0.59	0.59	1.49	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	9	10	COUNT
O2S11_CUR	HO2S11 Sensor	(I)	switching	switching	switching	mA/uA
O2S11_IMPED	HO2S11 Sensor	5	1.03	1.03	1.02	VOLTS
O2S11_TR	HO2S11 Sensor	0	153.40	153.50	153.50	Kohm
O2S12	HO2S12 Sensor	(I)	switching (D)	switching (D)	switching (D)	VOLTS
O2S21_CUR	HO2S21 Sensor	(I)	switching	switching	switching	mA/uA
O2S21_IMPED	HO2S21 Sensor	5	1.01	1.02	1.03	VOLTS
O2S21_READY	HO2S21 Sensor	NO	YES	YES	YES	YES/NO
O2S21_TR	HO2S21 Sensor	0	162.30	161.60	161.60	Kohm
O2S22	HO2S22 Sensor	(I)	switching (D)	switching (D)	switching (D)	VOLTS
OCTADJ_R_LRND	PID	0.02	0.02	0.02	0.02	%

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
OSS_RAW	OSS Sensor	0	0	1199	2088	RPM
RO2FT1	PID	0	-1.05	-1.57	0	%
RO2FT2	PID	0	0.53	-1.57	0	%
RPM	CKP Sensor	0	597.50	1738.75	2149.75	RPM
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	98.70 (14.32)	98.38 (14.27)	100.29 (14.55)	102.52 (14.87)	kPa (PSI)
TCBP_V	TCBP Sensor	1.50	1.50	1.53	1.56	VOLTS
TP1	ETBTPS	16.07	11.76	12.94	18.03	%
TQ_CNTRL	PID	ANTI THEFT	IDLE SPEED CONTROL	NONE REQUESTED	CRUISE CONTROL	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	-0.18	38.43	32.62	DEG
VCT_EXH_ACT2	PID	0	-0.06	39.12	31.12	DEG
VCT_EXH_DIF1	PID	0	0.25	19.87	-0.18	DEG
VCT_EXH_DIF2	PID	0	-0.06	17.62	-0.18	DEG
VCT_INT_ACT1	PID	0	0	-0.68	-51.56	DEG
VCT_INT_ACT2	PID	0	-0.18	-0.62	-51.81	DEG
VCT_INT_DIF1	PID	0	0.06	0	-19.62	DEG
VCT_INT_DIF2	PID	0	0.06	0	-20.25	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)	38 (5.51)	67.50 (9.79)	kPa (PSI)
WGATE_V	Wastegate Vacuum Sensor	4.25	4.25	1.84	3.04	VOLTS
WGATE_VAC_INF	PID	0	0	60.50 (8.77)	31 (4.50)	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	0	0	0	0	NUMERIC VALUE
AEIS_POSS	PID	67	67	67	67	NUMERIC VALUE
CYL_1-6_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	9.41	1.96	26.66	9.02	%
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPCP	EVAPCP Valve	0	14.13	51.64	94.24	%
EVAPCV	CANV Valve	0/OFF	0/OFF	0/OFF	0/OFF	%/ON-OFF
EVAPPCT	PID	0	17.25	32.54	24.70	%
EVAPSOAK	PID	YES	YES	YES	YES	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	28.18/ON	27.25/ON	27.29/ON	%/ON/OFF
FRP_DSD	PID	0.38 (55.1)	4.49 (651.22)	7.03 (1019.62)	7.43 (1077.63)	MPa (PSI)
FUELSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN LOOP/ CLOSED LOOP
F_VCV	Fuel Injection Pump	0	8.64	0	12.91	%
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
MIL	PID	OFF	OFF	OFF	OFF	ON/OFF
O2S11_HTR	HO2S11 Sensor	21.17	72.15	38.43	43.13	%
O2S21_HTR	HO2S21 Sensor	21.17	67.84	39.21	43.92	%
O2_DS_DISBL	PID	YES	NO	NO	NO	YES/NO
PATSENABL	PID	ENABLED	ENABLED	ENABLED	ENABLED	ENABLED/ DISABLED

Outputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
RPMDSD	PID	999	600	600	600	RPM
SPARKADV	PID	7.75	8.50	25.25	0	DEG
TURBO_ BPASS	TCBY Valve	OFF	OFF	OFF	OFF	ON/OFF
TURBO_ WGATE	Turbocharger Wastegate Regulating Valve Solenoid	0	0	63.57	72.19	%
VCT_EXH_ DC1	VCT12 Solenoid	0	0	73.10	37.75	%
VCT_EXH_ DC2	VCT22 Solenoid	0	0	66.97	43.00	%
VCT_INT_ DC1	VCT11 Solenoid	0	0	0	40.73	%
VCT_INT_ DC2	VCT21 Solenoid	0	0	0	41 .03	%

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