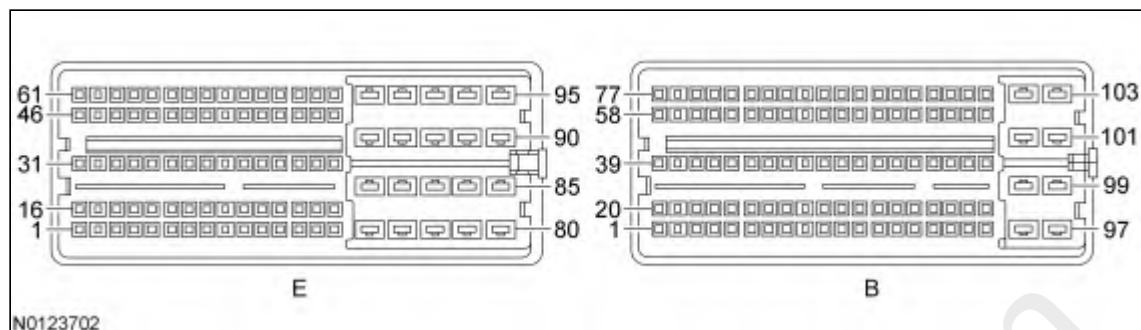


3.5L Expedition/Navigator**198 Pin PCM****Typical Diagnostic Reference Values**

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	15 (59)	15 (59)	15 (59)	15 (59)	DEG C (DEG F)
AAT_V	AAT Sensor	3.08	3.08	3.08	3.08	VOLTS
AC_REQ	PID	NO	NO	NO	NO	YES/NO
APP	APP Sensor	0	0	0	0	%
APP1	APP Sensor	0.79	0.79	0.79	0.79	VOLTS
APP1 (APP_D)	APP Sensor	16	16	16	16	%
APP2	APP Sensor	0.40	0.40	0.40	0.40	VOLTS
APP2 (APP_E)	APP Sensor	8	8	8	8	%
APP_MAXDIFF	PID	0	0	0	0	DEG
BARO	PID	100 (14.50)	100 (14.50)	100 (14.50)	100 (14.50)	kPa (PSI)/
BARO_V	PID	3.92	3.92	3.92	3.92	VOLTS
BOO1	BPP Switch	FALSE	FALSE	FALSE	FALSE	TRUE/FALSE
BOO2	BPP Switch	FALSE	FALSE	FALSE	FALSE	TRUE/FALSE
BRKOV RD_POSS	PID	8	8	8	8	NUMERIC VALUE
BRKOV R_ACTION	PID	1	1	1	1	NUMERIC VALUE
CAC_T	CACT Sensor	32 (89.6)	32 (89.6)	32 (89.6)	32 (89.6)	DEG C (DEG F)

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
CAC_V	CACT Sensor	2.11	2.11	2.11	2.11	VOLTS
CATEMP11	CAT11 Sensor	428 (802.4)	428 (802.4)	428 (802.4)	428 (802.4)	DEG C (DEG F)
CATEMP21	CAT21 Sensor	428 (802.4)	428 (802.4)	428 (802.4)	428 (802.4)	DEG C (DEG F)
CHT	CHT Sensor	99 (210.2)	99 (210.2)	99 (210.2)	99 (210.2)	DEG C (DEG F)
CHT_V	CHT Sensor	3.34	3.34	3.34	3.34	VOLTS
CLRDIST	PID	1 (0.62)	1 (0.62)	1 (0.62)	1 (0.62)	KM (MILES)
CRNKCAS_PR	Crankcase Pressure Sensor	-0.10 (-0.01)	-0.10 (-0.01)	-0.10 (-0.01)	-0.10 (-0.01)	Pa (PSI)
CRNKCAS_P_V	Crankcase Pressure Sensor	3.93	3.93	3.93	3.93	VOLTS
DECHOKE	PID	NO	NO	NO	NO	YES/NO
DIST_BRKOV	PID	2 (1.24)	2 (1.24)	2 (1.24)	2 (1.24)	KM (MILES)
ECT	ECT Sensor	92 (197.6)	92 (197.6)	92 (197.6)	92 (197.6)	DEG C (DEG F)
EQ_RAT11	PID	0	0	1	1.12	RATIO
ETC_ACT	PID	7.52	2.46	12.30	4.46	DEG
ETC_TRIM	PID	-0.03	-0.03	-0.03	-0.03	DEG
FLI	Fuel Level Sensor	14 (H)	14 (H)	9 (H)	12 (H)	%
FLP	Fuel Pressure Sensor	540 (78.32)	464 (67.30)	503 (72.95)	468 (67.88)	kPa (PSI)
FLP_V	Fuel Pressure Sensor	2.66	2.36	2.51	2.37	VOLTS
FPM	PID	40	40	40	40	%
FRP	FRP Sensor	17340 (2514.95)	13790 (2000.07)	11850 (1718.70)	12580 (1824.58)	kPa (PSI)
FRT_A	FRT Sensor	52 (125.6)	52 (125.6)	53 (127.4)	54 (129.2)	DEG C (DEG F)
FRT_V	FRT Sensor	1.33	1.32	1.29	1.28	VOLTS
FTP_V	FTP Sensor	2.39	2.63	2.49	2.39	VOLTS
HTRCM11	HO2S11 Sensor	0	0	0	0	mA
HTRCM12	HO2S12 Sensor	0	0	0	0	mA
HTRCM21	HO2S21 Sensor	0	0	0	0	mA
HTRCM22	HO2S22 Sensor	0	0	0	0	mA
IAT	IAT Sensor	35 (95)	35 (95)	35 (95)	35 (95)	DEG C (DEG F)
IAT11	IAT Sensor	35 (95)	35 (95)	35 (95)	35 (95)	DEG C (DEG F)
IAT12	IAT2 Sensor	46 (114.8)	46 (114.8)	46 (114.8)	46 (114.8)	DEG C (DEG F)
IAT1_V	IAT1 Sensor	1.96	1.96	1.96	1.96	VOLTS

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
IAT2	IAT2 Sensor	46 (114.8)	46 (114.8)	46 (114.8)	46 (114.8)	DEG C (DEG F)
IAT2_V	IAT2 Sensor	1.53	1.53	1.53	1.53	VOLTS
INJPWR_M	PID	13.41	13.41	13.41	13.41	VOLTS
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	KS1 Sensor	35	35	35	35	COUNT
KNOCK_2	KS2 Sensor	47	47	47	47	COUNT
LOAD	PID	0.00 (l)	30	30	30	%
LONGFT1	PID	(l)	-20 TO +20	-20 TO +20	-20 TO +20	%
LONGFT2	PID	(l)	-20 TO +20	-20 TO +20	-20 TO +20	%
MAP	MAP Sensor	39 (5.66)	39 (5.66)	39 (5.66)	39 (5.66)	kPa (PSI)
MAP_V	MAP Sensor	0.61	0.61	0.61	0.61	VOLTS
MIL_DIS	PID	0	0	0	0	KM (MILES)
MISFIRE	PID	FALSE	FALSE	FALSE	FALSE	TRUE/FALSE
MP_LRN	PID	TRUE	TRUE	TRUE	TRUE	TRUE/FALSE
NUM_MISFIRE	PID	0	0	0	0	COUNT
O2S11_CUR	HO2S11 Sensor	(l)	switching	switching	switching	mA/uA
O2S11_IMPED	HO2S11 Sensor	5	1.02	1.03	1.03	VOLTS
O2S11_READY	HO2S11 Sensor	FALSE	FALSE	TRUE	TRUE	TRUE/FALSE
O2S11_TR	HO2S11 Sensor	0	112.10	112.10	112.10	Kohm
O2S12	HO2S12 Sensor	(l)	switching (D)	switching (D)	switching (D)	VOLTS
O2S21_IMPED	HO2S21 Sensor	5	1.02	1.02	1.02	VOLTS
O2S21_READY	HO2S21 Sensor	FALSE	FALSE	TRUE	TRUE	TRUE/FALSE
O2S21_TR	HO2S21 Sensor	0	82.20	82.20	82.20	Kohm
O2S22	HO2S22 Sensor	(l)	switching (D)	switching (D)	switching (D)	VOLTS

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
OCTADJ_R_LRND	PID	0	0	0	0	%
RO2FT1	PID	0	0.01	-0.01	0.02	%
RO2FT2	PID	0	0.01	-0.01	0.02	%
RPM	CKP Sensor	0	675	1420	1633	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	99.7 (14.46)	99.7 (14.46)	101.5 (14.72)	100.2 (14.53)	kPa (PSI)
TCBP_V	TCBP Sensor	1.52	1.52	1.55	1.53	VOLTS
TP1_LRN_TRIM	ETBTPS	10	10	10	10	DEG
TP1_PER	ETBTPS	17	12	15	21	%
TP_REL	PID	7	2	5	12	VOLTS
TQ_CNTRL	PID	NONE REQUESTED	IDLE SPEED CONTROL	NONE REQUESTED	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	0.06	1.06	10	DEG
VCT_EXH_ACT2	PID	0	-0.31	0.50	12.69	DEG
VCT_EXH_DIF1	PID	0	-0.13	12.63	6.31	DEG
VCT_EXH_DIF2	PID	0	0.31	14.75	4.19	DEG
VCT_INT_ACT1	PID	0	0.19	11.44	29.44	DEG
VCT_INT_ACT2	PID	0	0.25	11.75	29.25	DEG
VCT_INT_DIF1	PID	0	-0.19	5.50	11.81	DEG
VCT_INT_DIF2	PID	0	-0.25	5.69	14.13	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	99.94	99.94	99.83	99.83	%

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
WGATE_B_POS_PCT	Turbocharger Wastegate Motor 2	99.94	99.94	99.94	99.88	%

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
CACC_FAN	Charge Air Cooler Cooling Fan	0	0	0	0	%
CACC_FANSTAT	Charge Air Cooler Cooling Fan	NO FAULT	NO FAULT	NO FAULT	NO FAULT	STATUS
DIST_AEIS	PID	0	0	0	0	KM (MILES)
ETC [TAC_PCT]	PID	9	3	10	5	%
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPCP	EVAPCP Valve	0	0	84	19	%
EVAPCV	CANV Valve	0	0	0	0	%/ON-OFF
EVAPPCT	PID	0	0	83	19	%
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	0	100	100	%/OPEN-CLOSED
FP	Fuel Pump Control Module	75	23	25	23	%
FRP_DSD	PID	2750 (398.85)	2750 (398.85)	12030 (1744.80)	2750 (398.85)	kPa (PSI)
FUELSYS_A_PCT_B1	PID	0	0	86	0	%
FUELSYS_A_PCT_B2	PID	0	0	86	0	%
FUELSYS_B_PCT_B1	PID	100	100	14	100	%
FUELSYS_B_PCT_B2	PID	100	100	14	100	%
F_VCV	Fuel Injection Pump	0	0	39	0	%
HFC	PID	OFF	OFF	OFF	OFF	ON/OFF
HTR11	HO2S11 Sensor	ON	ON	ON	ON	ON/OFF
HTR12	HO2S12 Sensor	ON	ON	ON	ON	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)	
HTR21	HO2S21 Sensor	ON	ON	ON	ON	ON/OFF
HTR22	HO2S22 Sensor	ON	ON	ON	ON	ON/OFF
LFC	PID	OFF	OFF	OFF	OFF	ON/OFF
MIL	PID	OFF	OFF	OFF	OFF	ON/OFF
O2S11_HTR	HO2S11 Sensor	21	40	35	32	%
O2S21_HTR	HO2S21 Sensor	21	42	36	32	%
O2_DS_ DISBL	PID	TRUE	TRUE	FALSE	FALSE	TRUE/FALSE
PATSENABL	PID	ENABLED	ENABLED	ENABLED	ENABLED	ENABLED/ DISABLED
RPMDSD	PID	900	666	575	575	RPM
SPARKADV	PID	14.50	2.50	16	25.50	DEG
TURBO_ BPASS	TCBY Valve	0	0	100	100	%
TURBO_ WGATE	Turbocharger Wastegate Regulating Valve Solenoid	0	0	0	0	%
VCT_EXH_ DC1	VCT12 Solenoid	0	0	77	48	%
VCT_EXH_ DC2	VCT22 Solenoid	0	0	67	48	%
VCT_INT_ DC1	VCT11 Solenoid	0	0	39	35	%
VCT_INT_ DC2	VCT21 Solenoid	0	0	40	35	%

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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