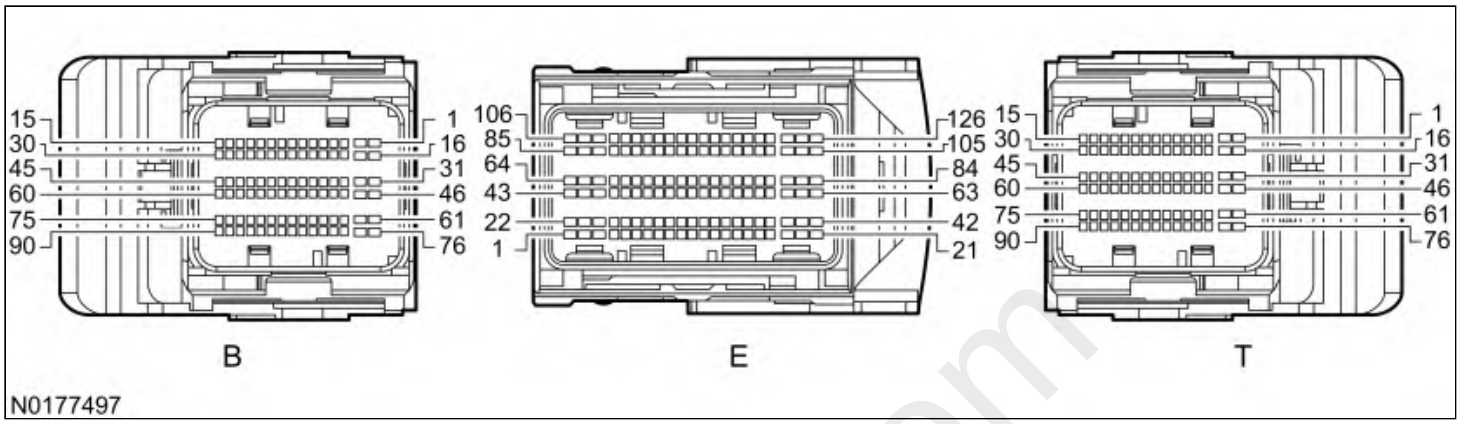
3.3L F-150

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	26 (78.8)	26 (78.8)	23 (73.4)	23 (73.4)	DEG C (DEG F)
AAT_V	AAT Sensor	2.65	2.66	2.84	2.82	VOLTS
AC_ REQ	PID	NO	NO	NO	NO	YES/NO
APP	APP Sensor	0	0	9	6.50	%
APP1	APP Sensor	0.78	0.78	1.09	1	VOLTS
APP1 (APP_D)	APP Sensor	15.29	15.29	21.56	20	%
APP2	APP Sensor	0.40	0.40	0.55	0.50	VOLTS
APP2 (APP_E)	APP Sensor	7.84	7.84	10.98	10.19	%
APP_ MAXDIFF	PID	0	0	0	0	DEG
B+	PID	12.27	14.41	14.30	14.27	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
BRKOVRD_ POSS	PID	1	1	2	2	NUMERIC VALUE
BRKOVR_ 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)	
CHT	CHT Sensor	89 (192.2)	91 (195.8)	92 (197.6)	92 (197.6)	DEG C (DEG F)
CHT_V	CHT Sensor	3.45	3.37	3.26	3.24	VOLTS
CLRDIST	PID	0.99 (0.62)	0.99 (0.62)	0.99 (0.62)	2.99 (1.86)	KM (MILES)
DECHOKE	PID	YES	NO	NO	NO	YES/NO
DIST_ BRKOVRD	PID	0.50 (0.31)	0.50 (0.31)	6.99 (4.34)	4.99 (3.10)	KM (MILES)
EQ_RAT11	PID	0:1	14.60:1	13.93:1	15.25:1	RATIO
EQ_RAT21	PID	0:1	1458:1	14.72:1	13.09:1	RATIO
ETC_ACT	PID	7.06	1.57	5.77	2.85	DEG
ETC_TRIM	PID	-0.01	-0.01	0.02	0.02	DEG
FLI	Fuel Level Sensor	69.41 (H)	69.41 (H)	74.51 (H)	67.05 (H)	%
FLP	Fuel Pressure Sensor	417.50 (60.55)	380.50 (55.19)	411.50 (59.68)	395.50 (57.36)	kPa (PSI)
FLP_V	Fuel Pressure Sensor	2.16	2.02	2.07	2.08	VOLTS
FPM	PID	41	40.99	40.40	40.39	%
FRP	FRP Sensor	4.03/22990 (3334.42)	3.96/22550 (3270.60)	1.14/4240 (614.96)	1.08/3820 (554.04)	VOLTS/kPa (PSI)
FRT	FRPT Sensor	43 (109.4)	42 (107.6)	40 (104)	40 (104)	DEG C (DEG F)
FRT_V	FRT Sensor	1.66	1.68	1.77	1.76	VOLTS
FTP	FTP Sensor	2.61/-14 Pa (-0)	2.60/-22 Pa (-0)	1.58/-1.82 (-0.26)	1.81/-1.41 (-0.20)	VOLTS/kPa (PSI)
FTP_H2O	FTP Sensor	-0.07	-0.10	.7.30	-5.69	NUMERIC VALUE
HTRCM12	HO2S12 Sensor	0	0	0	0	mA
HTRCM22	HO2S22 Sensor	0	0	0	0	mA
IAT	IAT Sensor	1.52/46 (114.8)	1.49/47 (116.6)	1.54/46 (114.8)	1.65/42 (107.6)	VOLTS/DEG C (DEG F)
IAT2	IAT2 Sensor	15 (59)	15 (59)	15 (59)	15 (59)	DEG C (DEG F)
KEYST	Ignition Switch	ON	ON	ON	ON	ON/OFF
KNOCK_1	KS1 Sensor	999	22	34	47	COUNT
KNOCK_2	KS2 Sensor	999	27	33	55	COUNT
LOAD	PID	0.00 (I)	31.76	39.21	25.09	%
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	100 (14.50)	36 (5.22)	65 (9.43)	93 (13.49)	kPa (PSI)
MAP_GAUGE	MAP Sensor	(I)	65 (9.43)	36 (5.22)	8 (1.16)	kPa (PSI)
MAP_V	MAP Sensor	3.99	1.35	2.71	3.74	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

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	11	12	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
O2S21_CUR	HO2S21 Sensor	(I)	switching	switching	switching	mA/uA
O2S21_ IMPED	HO2S21 Sensor	5	0.14	0.16	0.17	VOLTS
O2S21_ READY	HO2S21 Sensor	NO	YES	YES	YES	YES/NO
O2S22	HO2S22 Sensor	(I)	switching (D)	switching (D)	switching (D)	VOLTS
OCTADJ_R_ LRND	PID	0	0	-15.13	-15.13	%
OSS_SRC	OSS Sensor	0	0	1204	2248.50	RPM
RO2FT1	PID	0	0.20	0.67	1.03	%
RO2FT2	PID	0	0.04	0.62	1.03	%
RPM	CKP Sensor	0	648.25	1043	1532.25	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
TP1	ETBTPS	16.47	11.37	10.98	16-07	%
TQ_CNTRL	PID	NONE REQUESTED	IDLE SPEED CONTROL	ENGINE SPEED DESIRED	NONE REQUESTED	STATUS
VCTSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN LOOP/ CLOSED LOOP
VCT_EXH_ ACT1	PID	0	0	26.31	20	DEG
VCT_EXH_ ACT2	PID	0	0.62	25.43	20	DEG
VCT_EXH_ DIF1	PID	0	-0.50	-2.00	0.06	DEG
VCT_EXH_ DIF2	PID	0	-0.68	-1.68	-0.18	DEG
VCT_INT_ ACT1	PID	0	0.37	-9.81	-8.93	DEG
VCT_INT_ ACT2	PID	0	-0.12	-10.12	-8.87	DEG
VCT_INT_ DIF1	PID	0	-0.25	-0.12	-1	DEG

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
VCT_INT_ DIF2	PID	0	0.18	0.12	-1.06	DEG
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)	
AEIS_ ACTION	PID	0	0	0	0	NUMERIC VALUE
AEIS_ POSS	PID	0	0	0	0	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)
EGRVPDES	PID	0	0	8.62	23.13	%
ETC [TAC_PCT]	PID	9.41	1.56	5.49	16.07	%
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPCP	EVAPCP Valve	0	0	85.85	96.38	%
EVAPCV	CANV Valve	0/OFF	0/OFF	0/OFF	0/OFF	%/ON-OFF
EVAPPCT	PID	0	0	57.64	90.98	%
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	15.12/ON	16.09/ON	16.14/ON	%/ON/OFF
FRP_DSD	PID	340 (49.31)	2750 (398.85)	2750 (398.85)	2750 (398.85)	kPa (PSI)
FUELSYS	PID	ENGINE OFF	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	ENGINE OFF/ CLOSED LOOP
F_VCV	Fuel Injection Pump	0	0	0	0	%
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

Outputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
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	22.35	30.98	23.52	20.39	%
O2S21_HTR	HO2S21 Sensor	22.35	56.47	23.92	23.13	%
O2_DS_ DISBL	PID	YES	YES	NO	NO	YES/NO
PATSENABL	PID	ENABLED	ENABLED	ENABLED	ENABLED	ENABLED/ DISABLED
RPMDSD	PID	875	648.25	1043	1532.25	RPM
SPARKADV	PID	29.75	7.75	-6.75	21.25	DEG
VCT_EXH_ DC1	VCT12 Solenoid	0	0	39.11	39.21	%
VCT_EXH_ DC2	VCT22 Solenoid	0	0	39.92	40.51	%
VCT_INT_ DC1	VCT11 Solenoid	0	0	45.54	44.77	%
VCT_INT_ DC2	VCT21 Solenoid	0	0	46.74	49.47	%

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