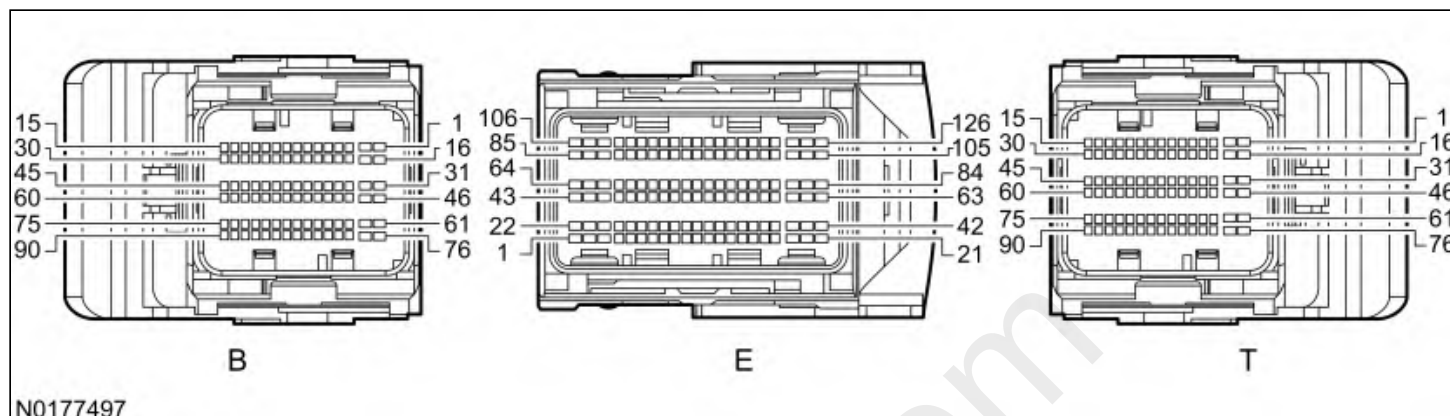


2.7L F-150

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	19 (66.2)	19 (66.2)	10 (50)	8 (46.4)	DEG C (DEG F)
AAT_V	AAT Sensor	3.01	3.04	3.51	3.57	VOLTS
AC_REQ	PID	NO	NO	NO	NO	YES/NO
APP	APP Sensor	0	0	14.50	18.50	%
APP1	APP Sensor	0.75	0.75	1.21	1.34	VOLTS
APP1 (APP_D)	APP Sensor	14.90	14.90	23.92	26.66	%
APP2	APP Sensor	0.38	0.38	0.61	0.67	VOLTS
APP2 (APP_E)	APP Sensor	7.45	7.45	12.15	13.33	%
APP_MAXDIFF	PID	0	0	0.06	0.06	DEG
APP_MODE	PID	NO PEDAL	NO PEDAL	PART PEDAL	PART PEDAL	NO PEDAL/ PART PEDAL
B+	PID	14.41	14.46	14.35	14.24	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	8	8	9	9	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)	
BRKOV_ ACTION	PID	0	0	0	0	NUMERIC VALUE
CAC_T	CACT Sensor	28 (82.4)	28 (82.4)	28 (82.4)	25 (77)	DEG C (DEG F)
CAC_V	CACT Sensor	2.31	2.32	2.31	2.43	VOLTS
CHT2	CHT2 Sensor	90 (194)	96 (204.8)	99 (204.8)	99 (204.8)	DEG C (DEG F)
CHT2_V	CHT2 Sensor	0.60	3.45	3.37	3.36	VOLTS
CLRDIST	PID	0 (0)	0 (0)	3.99 (2.48)	2.99 (1.86)	KM (MILES)
CRNKCAS_PRS	Crankcase Pressure Sensor	0 (0)	-55 (-0.01)	-139 (-0.02)	111 (0.02)	Pa (PSI)
CRNKCAS_P_V	Crankcase Pressure Sensor	0	3.90	3.88	3.98	VOLTS
DECHOKE	PID	YES	NO	NO	NO	YES/NO
DIST_ BRKOV RD	PID	1.50 (0.93)	1.50 (0.93)	5.49 (3.41)	4.49 (2.79)	KM (MILES)
DTCCNT	PID	0	0	0	0	Numeric Value
ECT	ECT Sensor	0.56/92 (197.6)	0.56/92 (197.6)	0.52/95 (203)	0.52/95 (203)	VOLTS/DEG C (DEG F)
EQ_RAT11	PID	0:1	14.71:1	14.79:1	14.39:1	RATIO
EQ_RAT21	PID	0:1	14.56:1	14.25:1	14.36:1	RATIO
ETC_ACT	PID	7.02	2.08	6.08	17.49	DEG
ETC_TRIM	PID	0.53	0.53	0.49	0.49	DEG
FLI	Fuel Level Sensor	70.58 (H)	70.98 (H)	69.02 (H)	80.78 (H)	%
FLP	Fuel Pressure Sensor	605 (87.75)	599.50 (86.95)	547 (79.34)	563 (81.66)	kPa (PSI)
FLP_V	Fuel Pressure Sensor	3.92	3.89	3.57	3.67	VOLTS
FPM	PID	40.40	40.99	40.40	40.01	%
FRP	FRP Sensor	0.99/2910 (422.06)	0.83/1990 (288.63)	0.98/2850 (413.36)	0.84/2080 (301.68)	VOLTS/kPa (PSI)
FTP	FTP Sensor	2.64/46 (0.01)	2.49/-229 (-0.03)	2.22/-693 (-0.10)	2.26/-632 (-0.09)	VOLTS/Pa (PSI)
FTP_H2O	FTP Sensor	0.17	-0.92	-2.79	-2.55	NUMERIC VALUE
HTRCM12	HO2S12 Sensor	0	0	1.15	1.15	A
HTRCM22	HO2S22 Sensor	0	0	1.09	1.09	A
IAT	IAT Sensor	2.08/32 (89.6)	2.12/32 (89.6)	2.57/22 (71.6)	2.66/20 (68)	VOLTS/DEG C (DEG F)
IAT2	IAT2 Sensor	38 (100.4)	36 (96.8)	32 (89.6)	31 (87.8)	DEG C (DEG F)
IAT2_V	IAT2 Sensor	1.84	1.91	2.11	2.16	VOLTS
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	25	60	26	COUNT
KNOCK_2	KS2 Sensor	198	36	69	28	COUNT
LOAD	PID	0.00 (l)	27.45	51.37	59.21	%
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	100 (14.50)	41 (5.95)	71 (10.30)	134 (19.44)	kPa (PSI)
MAP_GAUGE	MAP Sensor	(l)	60 (8.70)	30 (4.35)	-33 (-4.79)	kPa (PSI)
MAP_V	MAP Sensor	1.53	0.62	1.07	2.05	VOLTS
MIL_DIS	PID	0 (0)	0 (0)	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	(l)	switching	switching	switching	mA/uA
O2S11_IMP	HO2S11 Sensor	4.92	1.01	1.01	1.01	VOLTS
O2S11_READY	HO2S11 Sensor	NO	YES	YES	YES	YES/NO
O2S11_TR	HO2S11 Sensor	0	0	0	0	Kohm
O2S12	HO2S12 Sensor	(l)	switching (D)	switching (D)	switching (D)	VOLTS
O2S21_CUR	HO2S21 Sensor	(l)	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	(l)	switching (D)	switching (D)	switching (D)	VOLTS
OCTADJ_R_LRND	PID	-17.48	-17.48	-19.01	-19.01	%
OSS_SRC	OSS Sensor	0	0	1148.50	2150.75	RPM
RO2FT1	PID	0	-0.78	0	1.14	%

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
RO2FT2	PID	0	-0.86	0	0.91	%
RPM	CKP Sensor	0	856	1308.75	1488.75	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	100.85 (14.63)	100.77 (14.62)	101.49 (14.72)	103.87 (15.07)	kPa (PSI)
TCBP_V	TCBP Sensor	1.53	1.53	1.54	1.58	VOLTS
TP1	ETBTPS	4.23/15.29	4.45/10.58	4.29/13.72	4.11/17.64	VOLTS/%
TP1_LRN_TRIM	ETBTPS	9.12	9.12	9.12	9.12	DEG
TP2	ETBTPS	0.77/15.29	0.56/10.98	0.70/14.11	0.90/18.03	VOLTS/%
TP2_LRN_TRIM	ETBTPS	9.37	9.37	9.37	9.37	DEG
TP_MAXDIFF	PID	-0.06	0	0	0	%
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	0.06	42.93	40.75	DEG
VCT_EXH_ACT2	PID	0	0.06	42.62	40.50	DEG
VCT_EXH_DIF1	PID	0	0.06	0.87	-3.56	DEG
VCT_EXH_DIF2	PID	0	0.18	1.25	-4.75	DEG
VCT_INT_ACT1	PID	0	-0.50	0.25	-20.31	DEG
VCT_INT_ACT2	PID	0	-0.18	0	-22.31	DEG
VCT_INT_DIF1	PID	0	0.06	0.25	-0.25	DEG
VCT_INT_DIF2	PID	0	0	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)	41 (5.95)	42 (6.09)	kPa (PSI)
WGATE_V	Wastegate Vacuum Sensor	4.31	4.31	2.00	2.04	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 (0)	2 (0.29)	59.50 (8.63)	58.50 (8.48)	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	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)	0 (0)	0 (0)	KM (MILES)
ETC [TAC_PCT]	PID	9.41	2.74	9.80	21.17	%
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPCP	EVAPCP Valve	0	21.13	63.31	98.99	%
EVAPCV	CANV Valve	0/OFF	0/OFF	0/OFF	0/OFF	%/ON-OFF
EVAPPCT	PID	0	20.78	63.13	98.82	%
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	25.20/ON	24.27/ON	23/ON	%/ON/OFF
FRP_DSD	PID	370 (53.66)	1920 (278.47)	2850 (413.36)	1970 (285.72)	kPa (PSI)
FUELSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN LOOP/CLOSED LOOP
F_VCV	Fuel Injection Pump	0	0.69	7.21	4.01	%
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	70.58	50.58	45.09	%
O2S21_HTR	HO2S21 Sensor	0	76.47	54.11	36.07	%
O2_DS_ DISBL	PID	YES	NO	NO	NO	YES/NO
PATSENABL	PID	ENABLED	ENABLED	ENABLED	ENABLED	ENABLED/ DISABLED
SPARKADV	PID	10	3	32	7.25	DEG
TURBO_ BPASS	TCBY Valve	OFF	OFF	OFF	OFF	ON/OFF
TURBO_ WGATE	Turbocharger Wastegate Regulating Valve Solenoid	100	0	67.02	70.71	%
VCT_EXH_ DC1	VCT12 Solenoid	0	0	45.98	33.77	%
VCT_EXH_ DC2	VCT22 Solenoid	0	0	46.21	33.24	%
VCT_INT_ DC1	VCT11 Solenoid	0	0	0	47.30	%
VCT_INT_ DC2	VCT21 Solenoid	0	0	0	51.01	%

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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