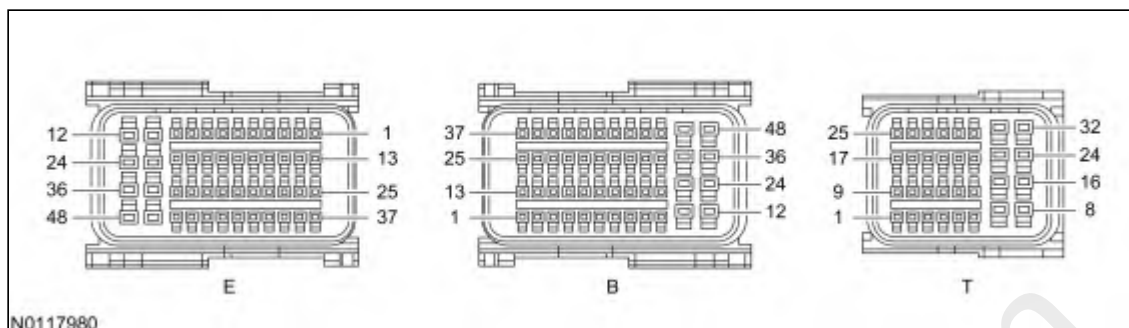


2.5L Ranger**128 Pin PCM****Typical Diagnostic Reference Values**

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	-40 (-40)	10 (50)	9 (48.20)	10 (50)	DEG C (DEG F)
AAT_V	AAT Sensor	3.44	3.50	3.53	3.50	VOLTS
AC_REQ	PID	NO	NO	NO	NO	YES/NO
APP	PID	0	0	8.50	9	%
APP_MAXDIFF	PID	0	0	0	0	DEG
APP_MODE	PID	NO PEDAL	NO PEDAL	PART PEDAL	PART PEDAL	NO PEDAL/ PART PEDAL
APP1	APP Sensor	0.75	0.75	1.18	1.22	VOLTS
APP1 (APP_D)	APP Sensor	14.90	14.90	21.17	21.56	%
APP2	APP Sensor	0.37	0.37	0.53	0.55	VOLTS
APP2 (APP_E)	APP Sensor	7.45	7.45	10.58	10.98	%
B+	PID	11.57	14.88	14.65	14.80	VOLTS
BARO	PID	98.94 (14.35)/ 156.11 /397.44	98.94 (14.35)/ 156.11 /397.44	98.94 (14.35)/ 156.11 /397.44	97.97 (14.21)/ 155.19 /393.43	kPa (PSI)/Hz/ in-H ₂ O
BOO1	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
BOO2	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
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)	
BRKOV RD_POSS	PID	3	3	3	3	NUMERIC VALUE
CHT	CHT Sensor	3.62/104 (219.20)	3.40/100 (212)	0.72/83 (181.40)	0.66/86 (186.80)	VOLTS/DEG C (DEG F)
DECHOKE	PID	YES	NO	NO	NO	YES/NO
DIST_BRKOV RD	PID	27.99 (17.39)	27.99 (17.39)	4.99 (3.10)	11.49 (7.14)	KM (MILES)
EQ_RAT11	PID	0/0:1	1.01/14.763:1	1.01/14.79:1	1/14.644:1	RATIO
ETC_ACT	PID	8.34	1.45	6.27	10.26	DEG
ETC_TRIM	PID	0.10	0.05	0.09	0.09	DEG
FLI	Fuel Level Sensor	92.15	92.54	98.43	96.07	%
FPM	Fuel Pump Control Module	40.31	40.79	40.31	40	%
FTP	FTP Sensor	2.63/0 (0)	2.42/0.28 (0.04)	2.21/0.70 (0.10)	2.21/0.70 (0.10)	VOLTS/kPa (PSI)
FTP_H2O	FTP Sensor	0.10	-1.38	-2.90	-2.90	in-H ₂ O
HTRCM11	HO2S11 Sensor	0	2.86	2.86	2.86	AMPS
HTRCM12	HO2S12 Sensor	0	771	771	771	mA
IAT	IAT Sensor	2.43/35 (95)	3.28/19 (66.20)	3.64/12 (53.60)	3.62/12 (53.60)	VOLTS/DEG C (DEG F)
INJPWR_M	PID	11.52	14.79	14.77	14.81	VOLTS
KNOCK_1	KS1 Sensor	65535	171	324	431	N/A
LOAD	PID	0	27.45	31.37	58.82	%
MAF	MAF Sensor	0	2.72	12.79	23.14	g/s
MAF_HZ	MAF Sensor	0.70	1.91	3.71	4.71	kHz
MAP	MAP Sensor	4.02/98.94 (14.35)	1.26/30.96 (4.49)	1.64/39.99 (5.80)	2.82/68.95 (10)	VOLTS/kPa (PSI)
MAP_GAUGE	MAP Sensor	8.02	281.02	244.89	128.46	in-H ₂ O
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	2	0	1	COUNT
O2S11_CUR	HO2S11 Sensor	0 (I)	switching (C)	switching (C)	switching (C)	uA
O2S11_IMP ED	HO2S11 Sensor	5.00	0.09	0.09	0.09	VOLTS
O2S11_READY	HO2S11 Sensor	NO	YES	YES	YES	YES/NO
O2S11_TR	HO2S11 Sensor	59.70	59.70	59.70	59.70	Kohm
O2S12	HO2S12 Sensor	0.27	0.79	0.75	0.65	VOLTS
RPM	CKP Sensor	0				RPM

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
SYNC	PID	NO	YES	YES	YES	YES/NO
TP1	ETBTPS	4.08/18.03	4.34/12.94	4.15/16.47	3.58/28.23	VOLTS/%
TP2	ETBTPS	1.25/24.70	0.74/14.51	1.11/21.96	2.25/45.09	VOLTS/%
TPMODE	PID	PT	CT	PT	PT	CLOSED/ PART/WIDE OPEN THROTTLE
VCTSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN LOOP/ CLOSED LOOP
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)	
EGRPCT	PID	0	0	17.25	65.09	%
EGR_STEP	EGR Valve	0	0	9	34	POSITION
ETC [TAC_PCT]	PID	9.41	1.56	7.45	12.54	%
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPCP	EVAPCP Valve	0	73.96	96.38	95.96	%
EVAPCV	CANV Valve	0/OFF	0/OFF	0/OFF	0/OFF	%/ON-OFF
EVAPSOAK	PID	YES	YES	YES	YES	YES/NO
EVAPSTA	PID	NOT RUNNING	NOT RUNNING	NOT RUNNING	NOT RUNNING	STATUS
FANDC	PID	7.84	7.84	7.84	7.84	%
FP	Fuel Pump Control Module	75/OFF	37.77/ON	37.95/ON	37.87/ON	%/ON/OFF
FUELSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN/ CLOSED LOOP
HTR11	HO2S11 Sensor	OFF	ON	ON	ON	ON/OFF
HTR12	HO2S12 Sensor	OFF	ON	ON	ON	ON/OFF
LONGFT1	PID	(I)	-20 TO +20	-20 TO +20	-20 TO +20	%
MIL	PID	OFF	OFF	OFF	OFF	ON/OFF
O2S11_HTR	HO2S11 Sensor	0	29.02	26.66	25.88	%
O2_DS_DISBL	PID	YES	NO	NO	NO	YES/NO
RO2FT1	PID	0	-1.36	2.23	1.74	%
SHRTFT1	PID	(I)	-10 TO +10	-10 TO +10	-10 TO +10	%

Outputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
SPARKADV	PID	10	13	46.75	44	DEG
TQ_CNTRL	PID	NONE REQUESTED	NONE REQUESTED	NONE REQUESTED	NONE REQUESTED	STATUS
VCTADV	PID	0	0.25	0	0	DEG
VCTADVERR	PID	0	-0.25	0	0	DEG
VCTDC	VCT1 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	11.29	14.80	14.80	14.70	VOLTS
VREF	PID	5	5	5.01	5.01	VOLTS