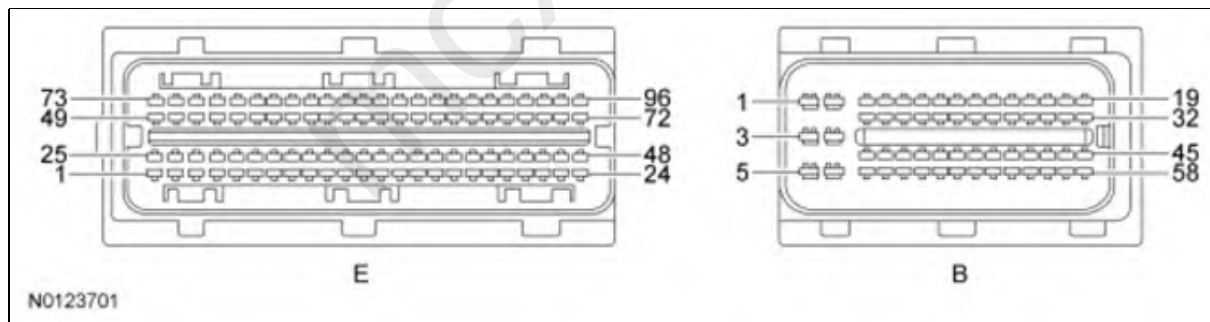


INJ1-6_OFF	PID	--	--	--	--	--/DISABLE
LONGFT1	PID	(I)	-20 TO +20	-20 TO +20	-20 TO +20	%
LONGFT2	PID	(I)	-20 TO +20	-20 TO +20	-20 TO +20	%
MIL	PID	OFF	OFF	OFF	OFF	ON/OFF
O2_DS_DISBL	PID	YES	NO	NO	NO	YES/NO
RO2FT1	PID	0	-0.74	-0.90	1.14	%
RO2FT2	PID	0	-0.78	-0.90	1.00	%
SHRTFT1	PID	(I)	-10 TO +10	-10 TO +10	-10 TO +10	%
SHRTFT2	PID	(I)	-10 TO +10	-10 TO +10	-10 TO +10	%
SPARKADV	PID	26.75	8	45.25	46	DEG
TQ_CNTRL	PID	NONE REQUESTED	IDLE SPEED CONTROL	NONE REQUESTED	NONE REQUESTED	STATUS

Other	PCM Pin/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
VREF	B52/B66/E34	5	5	5	5	VOLTS
VPWR	B97/B99	VBAT	VBAT	VBAT	VBAT	VOLTS

2.0L GTDI EXPLORER

Fig 1: 2.0L GTDI Explorer PCM Connector



Courtesy of FORD MOTOR CO.

2.0L GTDI EXPLORER > TYPICAL DIAGNOSTIC REFERENCE VALUES

Sensors/Inputs	PCM Pin/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	

FPM	B12	59.40	60.00	60.00	58.98	%
BOO2	B16	OFF	OFF	OFF	OFF	ON/OFF
APP2	B26	0.39/7.84	0.39/7.84	0.48/9.41	0.39/7.84	VOLTS/%
BOO1	B30	OFF	OFF	OFF	OFF	ON/OFF
AAT	B35	29 (84.2)	24 (75.2)	18 (64.4)	17 (62.6)	DEG C (DEG F)
AAT_V	B35	2.48	2.76	3.08	3.11	VOLTS
O2S12	B48	(I)	(D)	(D)	(D)	VOLTS
APP1	B52	0.77/15.29	0.77/15.29	0.94/18.82	0.77/15.29	VOLTS/%
TP1	E6	4.20	4.44	4.29	4.23	VOLTS
FLP	E7	718.77/104.25	622.80/90.33	570.81/82.79	566.33/82.14	kPa/PSI
FLP_DSD	E7	629.83/91.35	629.83/91.35	557.85/80.91	584.81/84.82	kPa/PSI
FLP_V	E7	2.95	2.57	2.36	2.34	VOLTS
TCBP	E8	99.42/14.42	99.42/14.42	103.09/15.07	101.00/14.65	kPa/PSI
TCBP_V	E8	1.60	1.60	1.67	1.63	VOLTS
FRP	E9	0.96/2349.3 /340.75	0.84/1689.5 /245.05	1.08/3039.2 /440.80	1.54/5498.5 /797.50	VOLTS/kPa/PSI
IAT	E10	1.61/42 (107.6)	1.60/43 (109.4)	2.65/19 (66.2)	2.65/19 (66.2)	VOLTS/DEG C (DEG F)
CAC_T	E11	42 (107.6)	38 (100.4)	22 (71.6)	21 (69.8)	DEG C (DEG F)
CAC_V	E11	2.17	2.34	3.07	3.10	VOLTS
ECT	E12	90 (194)	93 (199.4)	74 (165.2)	95 (203)	DEG C (DEG F)
CHT	E56	0/90 (194.0)	0/93 (199.4)	0/74 (165.2)	0/95 (203.0)	VOLTS/DEG C (DEG F)
FTP	E59	2.61/0.00 /-0.00	2.13/-0.82 /-0.12	1.62/-1.72 /-0.25	1.96/-1.10 /-0.16	VOLTS/kPa/PSI
TP2	E81	0.79	0.55	0.70	0.76	VOLTS
MAP	E83	1.60/98.93 /14.35	0.68/39.98/5.80	0.56/28.95/4.20	1.20/69.98 /10.15	VOLTS/kPa/PSI
O2S11_CUR	E89	(I)	switching (C)	switching (C)	switching (C)	uA
APP	PID	0.0	0.0	11.5	0.0	%
APP_MAXDIFF	PID	0.00	0.00	-0.06	0.00	DEG
B+	PID	VBAT	VBAT	VBAT	VBAT	VOLTS
BARO	PID	3.92/98.93 /14.35/156.11 /397.44	3.92/98.93 /14.35/156.11 /397.44	3.92/98.93 /14.35/156.11 /397.44	3.92/98.93 /14.35/156.11 /397.44	VOLTS/kPa /PSI/Hz/in-H ₂ O
BRKOV _R _ACTION	PID	0	0	0	0	NUMERIC VALUE

BRKOV RD_POSS	PID	27	27	27	27	NUMERIC VALUE
DECHOKE	PID	YES	NO	NO	NO	YES/NO
DIST_BRKOV RD	PID	520.7 (323.6)	520.7 (323.6)	493.7 (306.83)	502.2 (312.11)	KM (MILES)
EQ_RAT11	PID	0	0.995	0.995	1.005	RATIO
ETC_TRIM	PID	0.08 (J)	0.08 (J)	0.31 (J)	0.27 (J)	DEG
FLI	PID	91.76 (H)	91.76 (H)	94.51 (H)	92.54 (H)	%
FRP_DSD	PID	369.9/53.65	1749.5/253.75	2929.2/424.85	5648.5/819.25	kPa/PSI
INJPWR_M	PID	0	0	0	0	VOLTS
LOAD	PID	0.00 (I)	32.54	16.86	52.54	%
MIL_DIS	PID	0	0	0	0	Miles
MISFIRE	PID	NO	NO	NO	NO	YES/NO
MP_LRN	PID	YES	YES	YES	YES	YES/NO
O2S_EVAL	PID	YES	YES	YES	YES	YES/NO
O2S11_IMP ED	PID	4.93	1.02	1.01	1.02	VOLTS
O2S11_READY	PID	NO	YES	YES	YES	YES/NO
O2SHTR_EVAL	PID	YES	YES	YES	YES	YES/NO
RPM	PID	0	780.75	1737.25	1447.25	RPM
SYNC	PID	NO	YES	YES	YES	YES/NO
TCBP_DSD	PID	100.6/14.60	100.6/14.60	100.6/14.60	100.5/14.59	kPa/PSI
VCT_EXH_ACT1	PID	0.00	-0.06	20.06	30.43	DEG
VCT_EXH_DIF1	PID	0.00	0.06	0.00	42.53	DEG
VCT_INT_ACT1	PID	0.00	-0.06	-0.06	0.00	DEG
VCT_INT_DIF1	PID	0.00	0.06	0.06	0.00	DEG
VCTSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN/CLOSED LOOP
VSS	PID	0	0	48 km/h (30 MPH)	89 km/h (55 MPH)	km/h/MPH

Actuators/Outputs	PCM Pin/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
HTR12	B20	OFF	ON	ON	ON	ON/OFF
HTRCM12	B20	0	0	0	0	A/mA
FP	B45	75	25.28	23.37	24.49	%
FTP_H2O	E59	-0.068	-3.447	-7.033	-4.758	in-H ₂ O

VCT_INT_DC1	E67	0	0	0	0	%
VCT_EXH_DC1	E71	0.00	0.00	43.28	43.93	%
HTR11	E72	OFF	ON	ON	ON	ON/OFF
O2S11_HTR	E72	0.00	36.07	29.80	28.62	%
EVAPCP	E91	0.00	65.46	94.32	97.07	%
EVAPCV	E91	0/OFF	0/OFF	0/OFF	0/OFF	%/ON/OFF
TURBO_WGATE	E95	0.00	47.91	46.49	45.21	%
ETC [TAC_PCT]	PID	9.41	1.96	5.09	5.49	%
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPSOAK	PID	YES	YES	YES	YES	YES/NO
EVAPSTA	PID	NOT RUNNING	NOT RUNNING	NOT RUNNING	NOT RUNNING	STATUS
EVAP_EVAL	PID	YES	YES	YES	YES	YES/NO
F_VCV	PID	0.00	8.89	5.15	9.98	%-VARYING
FAN_DSD	PID	7.99	25.76	7.99	7.99	%
FANDC	PID	7.84	25.49	7.84	7.84	%
FUELSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN/CLOSED LOOP
GRILL_A_CMD	PID	0/CLOSED	0/CLOSED	0/CLOSED	0/CLOSED	%/OPEN/CLOSED
GRILL_A_INF	PID	0	0	0	0	%
GRILL_CMDCAL	PID	NO	YES	YES	YES	YES/NO
LONGFT1	PID	(I)	-20 TO +20	-20 TO +20	-20 TO +20	%
O2_DS_DISBL	PID	YES	NO	NO	NO	YES/NO
O2_DS1_ERR	PID	0.00	-0.12	0.04	-0.02	VOLTS
PATSENABL	PID	ENABLED	ENABLED	ENABLED	ENABLED	ENABLED/DISABLED
RO2FT1	PID	0.00	0.12	-1.40	1.31	%
SHRTFT1	PID	(I)	-10 TO +10	-10 TO +10	-10 TO +10	%
SPARKADV	PID	10	10.75	36	29.50	%
WGATE_PRES	PID	98.9/14.35	64.4/9.35	65.9/9.57	54.4/7.90	kPa/PSI
WGATE_V	PID	4.26	2.88	2.95	2.53	VOLTS
WGATE_VAC_DSD	PID	33.4/4.85	33.4/4.85	32.4/4.71	41.9/6.09	kPa/PSI
WGATE_VAC_INF	PID	0.0/0.00	34.4/5.00	32.9/4.78	43.9/6.38	kPa/PSI

Other	PCM Pin/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
VREF	B7/B31/E15/E18	5	5	5	5	VOLTS