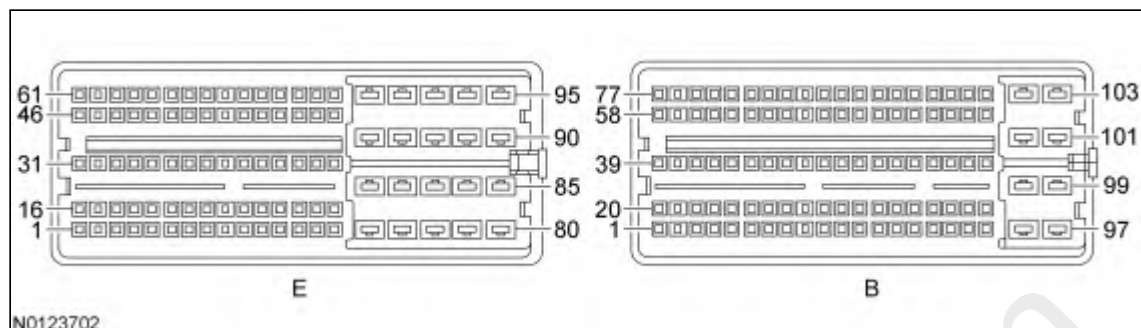


3.5L GTDI Flex**198 Pin PCM****Typical Diagnostic Reference Values**

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
APP	APP Sensor	0.00	0.00	11.5	6.5	%
APP1	APP Sensor	0.78	0.78	0.98	1.09	VOLTS
APP2	APP Sensor	0.39	0.39	0.50	0.56	VOLTS
B+	PID	12.62	14.22	14.16	14.24	VOLTS
BARO	PID	14.35/156.11	14.35/156.11	14.21/155.19	14.35/156.11	PSI/Hz
BOO1	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
BOO2	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
CAC_T	CACT Sensor	2.43/36 (96.8)	2.39/37 (98.6)	2.74/30 (86.0)	3.37/17 (62.6)	VOLTS/DEG C (DEG F)
CHT	CHT Sensor	3.43/93 (199.40)	3.41/87 (188.60)	0.65/86 (186.80)	0.60/88 (190.40)	VOLTS/DEG C (DEG F)
CLRDIST	PID	0	0	0	0	MILES
CRNKCAS_PRS	Crankcase Pressure Sensor	0	-68 (-0)	-178 (-0.03)	-295 (-0.04)	Pa (PSI)
CRNKCAS_P_V	Crankcase Pressure Sensor	3.95	3.89	3.83	3.81	VOLTS
DECHOKE	PID	YES	NO	NO	NO	YES/NO
EQ_RAT11	PID	0.00	14.61:1	14.60:1	14.55:1	RATIO
EQ_RAT21	PID	0.00	14.60:1	14.59:1	14.47:1	RATIO
ETC_TRIM	PID	0.24 (J)	0.25 (J)	0.23 (J)	0.28 (J)	DEG
FLI	Fuel Level Sensor	49.41 (H)	49.41 (H)	49.41 (H)	49.27 (H)	%
FPM	Fuel Pump Control Module	60.39	59.99	59.99	60.00	%

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
FRP	FRP Sensor	1.57/7020 (1018.17)	0.74/1570 (227.71)	0.76/1650 (239.31)	0.87/2570 (372.75)	VOLTS/kPa
FTP	FTP Sensor	2.66/0.01	2.53/-0.02	1.77/-0.21	2.18/-0.11	VOLTS/Pa
FTP_H2O	FTP Sensor	0.207	-2.275	-1.379	-0.896	in-H ₂ O
HTRCM12	HO2S12 Sensor	0	830	923	923	A/mA
HTRCM22	HO2S22 Sensor	0	797	866	891	A/mA
IACKAM2	PID	-0.38	-0.44	-0.58	-0.58	NUMERIC VALUE
IAT	IAT Sensor	2.37/37 (98.60)	2.29/38 (100.40)	3.21/20 (68.00)	3.88/6 (42.80)	VOLTS/DEG C (DEG F)
INJPWR_M	PID	0.00	0.00	0.00	0.00	VOLTS
LOAD	PID	0.00 (I)	29.02	18.82	26.27	%
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	14.5/2.42	4.6/0.92	5.8/1.06	8.70/1.53	PSI/VOLTS
MIL_DIS	PID	0.00	0.00	0.00	0.00	Miles
MISFIRE	PID	NO	NO	NO	NO	YES/NO
O2S11_CUR	HO2S11 Sensor	(I)	switching	switching	switching	mA/uA
O2S11_IMPED	HO2S11 Sensor	4.93	1.01	1.01	1.01	VOLTS
O2S12	HO2S12 Sensor	(I)	(D)	(D)	(D)	VOLTS
O2S21_CUR	HO2S21 Sensor	(I)	switching	switching	switching	mA/uA
O2S21_IMPED	HO2S21 Sensor	4.93	1.01	1.01	1.01	VOLTS
O2S22	HO2S22 Sensor	(I)	(D)	(D)	(D)	VOLTS
RPM	CKP Sensor	0	676	600	600	RPM
SHRTFT1	PID	0.00	-0.78	0.78	0.78	%
SHRTFT2	PID	0.00	-1.56	2.34	-0.78	%
SYNC	PID	NO	YES	YES	YES	YES/NO
TCBP	TCBP Sensor	101.82/14.6	101.82/14.6	100.31/14.55	105.16/15.2	kPa/PSI
TCBP_V	TCBP Sensor	1.58	1.59	1.60	1.64	VOLTS
TP1	ETBTPS	4.09	4.29	4.14	4.02	VOLTS
TP2	ETBTPS	1.18	0.79	1.09	1.31	VOLTS
TURBO_BP1_STAT	TCBY Valve	NO FAULT	NO FAULT	NO FAULT	NO FAULT	FAULT/ NO FAULT
TURBO_BP2_STAT	TCBY2 Valve	NO FAULT	NO FAULT	NO FAULT	NO FAULT	FAULT/ NO FAULT
VCT_INT_ACT1	PID	0.00	0.06	-28.81	-32.56	DEG
VCT_INT_ACT2	PID	0.00	-0.12	-28.87	-32.50	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_DIF1	PID	0.00	0.00	0.43	0.12	DEG
VCT_INT_DIF2	PID	0.00	0.00	0.43	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

Outputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPCP	EVAPCP Valve	0.00	61.92	33.84	74.1	%
EVAPCV	CANV Valve	OFF	OFF	OFF	OFF	ON/OFF
EVAPSOAK	PID	NO	NO	NO	NO	YES/NO
EVAPSTA	PID	NOT RUNNING	NOT RUNNING	NOT RUNNING	COMPLETE	STATUS
FP	Fuel Pump Control Module	75.00	25.82	28.56	26.45	%
FUELSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN/ CLOSED LOOP
F_VCV	Fuel Volume Control Valve	0.00	6.51	17.81	19.76	%-VARYING
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
LFC	PID	OFF	ON	ON	OFF	ON/OFF
O2S11_HTR	HO2S11 Sensor	21.56	37.64	35.29	34.11	%
O2S21_HTR	HO2S21 Sensor	20.78	38.03	36.86	35.68	%
SPARKADV	PID	10	5.25	39.00	38.25	DEG
TURBO_BPASS	TCBY Valve	OFF	OFF	OFF	OFF	ON/OFF
TURBO_BPASS_2	TCBY2 Valve	OFF	OFF	OFF	OFF	ON/OFF
TURBO_WGATE	Turbocharger Wastegate Regulating Valve Solenoid	0.00	0.00	0.00	6.10	%
VCT_INT_DC1	VCT11 Solenoid	0.00	0.00	38.65	44.95	%

Outputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
VCT_INT_DC2	VCT21 Solenoid	0.00	0.00	44.97	44.88	%

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	12	VBAT	VBAT	VBAT	VOLTS
VREF	PID	5	5	5	5	VOLTS

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