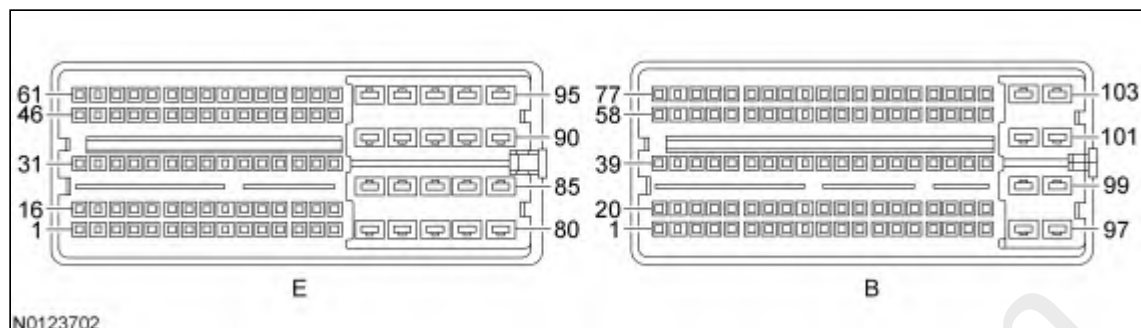


3.5L GTDI Transit

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)	
AAT	AAT Sensor	20 (68)	19 (66.2)	20 (68)	18 (64.4)	DEG C (DEG F)
AAT_V	AAT Sensor	1.26	1.27	1.24	1.31	VOLTS
AC_REQ	PID	NO	NO	NO	NO	YES/NO
APP	APP Sensor	0	0	12	11	%
APP1	APP Sensor	0.78	0.78	1.18	1.14	VOLTS
APP1 (APP_D)	APP Sensor	15.68	15.68	23.52	22.74	%
APP2	APP Sensor	0.39	0.39	0.59	0.57	VOLTS
APP2 (APP_E)	APP Sensor	7.84	7.84	11.76	11.37	%
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	12.98	14.22	14.30	13.80	VOLTS
BOO1	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
BOO2	BPP Switch	OFF	OFF	OFF	OFF	ON/OFF
BRKOV RD_POSS	PID	196	196	197	197	NUMERIC VALUE
BRKOV R_ACTION	PID	0	0	0	0	NUMERIC VALUE
CAC_T	CACT Sensor	35 (95)	32 (89.6)	33 (91.4)	34 (93.2)	DEG C (DEG F)
CAC_V	CACT Sensor	1.97	2.10	2.06	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)	
CHT	CHT Sensor	3.52/84 (183.2)	3.32/88 (190.4)	3.20/90 (194)	3.01/94 (201.2)	VOLTS/DEG C (DEG F)
CLRDIST	PID	3,353.29 (2,083.64)	3,353.29 (2,083.64)	3,354.29 (2,084.26)	3,355.29 (2,084.88)	KM (MILES)
CRNKCAS_PR	Crankcase Pressure Sensor	74 (10.73) (I)	74 (10.73)	2 (0.29)	51 (7.40)	Pa (PSI)
CRNKCAS_P_V	Crankcase Pressure Sensor	3.91 (I)	3.91	3.82	3.80	VOLTS
DECHOKE	PID	YES	NO	NO	NO	YES/NO
DIST_BRKOV	PID	12,266.87 (7,622.28)	12,266.87 (7,622.28)	12,266.87 (7,622.28)	12,268.37 (7623.21)	KM (MILES)
DTCCNT	PID	0	0	0	0	Numeric Value
EONV_RDY	PID	NOT READY	NOT READY	NOT READY	NOT READY	READY/NOT READY
EQ_RAT11	PID	0:1	14.60:1	14.83:1	14.23:1	RATIO
EQ_RAT21	PID	0:1	14.59:1	14.64:1	14.71:1	RATIO
ETC_ACT	PID	7.86	2.29	4.68	6.11	DEG
ETC_TRIM	PID	0.08	0.08	0.06	0.06	DEG
FLI	Fuel Level Sensor	100 (H)	100 (H)	100 (H)	100 (H)	%
FPM	PID	60.60	60.61	60.99	60.60	%
FRP	FRP Sensor	1.63/6700 (971.75)	0.73/1390 (201.60)	0.94/2360 (342.29)	1.20/4170 (604.81)	VOLTS/kPa (PSI)
FTP	FTP Sensor	2.61/-5 (0)	2.56/-108 (-0.02)	2.53/-160 (-0.02)	2.38/-418 (-0.06)	VOLTS/Pa (PSI)
HTRCM12	HO2S12 Sensor	0	1.89	1.88	1.88	A
HTRCM22	HO2S22 Sensor	0	1.78	1.78	1.78	A
IAT	IAT Sensor	1.97/35 (95)	2.08/32 (89.6)	2.48/24 (75.2)	2.47/24 (75.2)	VOLTS/DEG C (DEG F)
IAT2	IAT2 Sensor	2.03/44 (111.2)	2.16/41 (105.8)	2.55/33 (91.4)	2.41/36 (96.8)	VOLTS/DEG C (DEG F)
KEYST	Ignition Switch	ON	ON	ON	ON	ON/OFF
KNK_CNTR_CYL1	PID	0	0	0	0	COUNT
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

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
KNOCK_1	KS1 Sensor	261	28	45	75	COUNT
KNOCK_2	KS2 Sensor	261	40	57	66	COUNT
LOAD	PID	0.00 (I)	33.72	36.47	36.07	%
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)	41 (5.95)	49 (7.11)	59 (8.56)	kPa (PSI)
MAP_GAUGE	MAP Sensor	1 (0.15)	60 (8.70)	52 (7.54)	42 (6.09)	kPa (PSI)
MAP_V	MAP Sensor	1.99	0.95	1.08	1.26	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	0	0	COUNT
O2S11_CUR	HO2S11 Sensor	(I)	switching	switching	switching	mA/uA
O2S11_IMPED	HO2S11 Sensor	4.93	1.01	1.01	1.01	VOLTS
O2S11_READY	HO2S11 Sensor	NO	NO	YES	YES	YES/NO
O2S11_TR	HO2S11 Sensor	0	0	0	0	Kohm
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	4.92	1.01	1.02	1.01	VOLTS
O2S21_READY	HO2S21 Sensor	NO	NO	YES	YES	YES/NO
O2S21_TR	HO2S21 Sensor	0	0	0	0	Kohm
O2S22	HO2S22 Sensor	(I)	switching (D)	switching (D)	switching (D)	VOLTS
OCTADJ_R_LRND	PID	-41.36	-41.36	-41.36	-41.36	%
RO2FT1	PID	0	1	1	0	%
RO2FT2	PID	0	1	1	0	%
RPM	CKP Sensor	0	622.75	1101 .75	1673.75	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	99.98 (14.50)	100.06 (14.51)	121.36 (17.60)	113.49 (16.46)	kPa (PSI)
TCBP_V	TCBP Sensor	1.52	1.52	1.85	1.73	VOLTS
TP1	ETBTPS	4.10/17.64	4.31/13.72	4.28/14.11	4.27/14.11	VOLTS/%
TP1_LRN_TRIM	ETBTPS	15.12	15.12	15.12	15.12	DEG

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
TP2	ETBTPS	1.22/24.31	0.81/16.07	0.85/16.86	0.87/17.25	VOLTS/%
TP2_LRN_TRIM	ETBTPS	7.75	7.75	7.75	7.75	DEG
TP_MAXDIFF	PID			-0.12	-0.06	%
TQ_CNTRL	PID	ANTI THEFT	IDLE SPEED CONTROL	NONE REQUESTED	NONE REQUESTED	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	32.25	35.37	DEG
VCT_EXH_ACT2	PID	0	-0.25'	32.37	35.37	DEG
VCT_EXH_DIF1	PID	0	0	-0.43	0	DEG
VCT_EXH_DIF2	PID	0	-0.31	-2.00	-0.12	DEG
VCT_INT_ACT1	PID	0	0	-7.50	-4.81	DEG
VCT_INT_ACT2	PID	0	-0.06	-6.31	-4.25	DEG
VCT_INT_DIF1	PID	0	0	-4.56	0.37	DEG
VCT_INT_DIF2	PID	0	0.06	-5.75	-0.12	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)	
CYL_1-6_ACCL	PID	(I)	-1 TO +1	-1 TO +1	-1 TO +1	NUMERIC VALUE
ETC [TAC_PCT]	PID	9.41	2.74	5.49	7.05	%
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPCP	EVAPCP Valve	0	0	37.01	47.29	%
EVAPCV	CANV Valve	0/OFF	0/OFF	0/OFF	0/OFF	%/ON-OFF
EVAPSOAK	PID	NO	NO	NO	NO	YES/NO

Outputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
EVAPSTA	PID	NOT RUNNING	NOT RUNNING	NOT RUNNING	NOT RUNNING	STATUS
FP	Fuel Pump Control Module	75/OFF	27.96/ON	28.13/ON	28.52/ON	%/ON/OFF
FRP_DSD	PID	370 (53.66)	1370 (198.70)	2420 (350.99)	3630 (526.49)	kPa (PSI)
FUELSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN LOOP/ CLOSED LOOP
F_VCV	Fuel Injection Pump	0	7.55	19.38	26.76	%
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
MIL	PID	OFF	OFF	OFF	OFF	ON/OFF
O2S11_HTR	HO2S11 Sensor	0	32.54	37.25	39.21	%
O2S21_HTR	HO2S21 Sensor	0	32.54	38.43	35.29	%
O2_DS_ DISBL	PID	YES	YES	NO	NO	YES/NO
PATSENABL	PID	ENABLED	ENABLED	ENABLED	ENABLED	ENABLED/ DISABLED
SPARKADV	PID	10	13.25	28	11	DEG
TURBO_ BPASS	TCBY Valve	OFF	OFF	OFF	ON	ON/OFF
TURBO_ WGATE	Turbocharger Wastegate Regulating Valve Solenoid	0	0	0	0	%
VCT_EXH_ DC1	VCT12 Solenoid	0	0	46.80	41.93	%
VCT_EXH_ DC2	VCT22 Solenoid	0	0	47.60	42.78	%
VCT_INT_ DC1	VCT11 Solenoid	0	0	56.86	0	%
VCT_INT_ DC2	VCT21 Solenoid	0	0	56.64	0	%

Other	Component/PID Only	Measured/PID Values				Units Measured/PID

Other	Component/PID Only	Measure (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