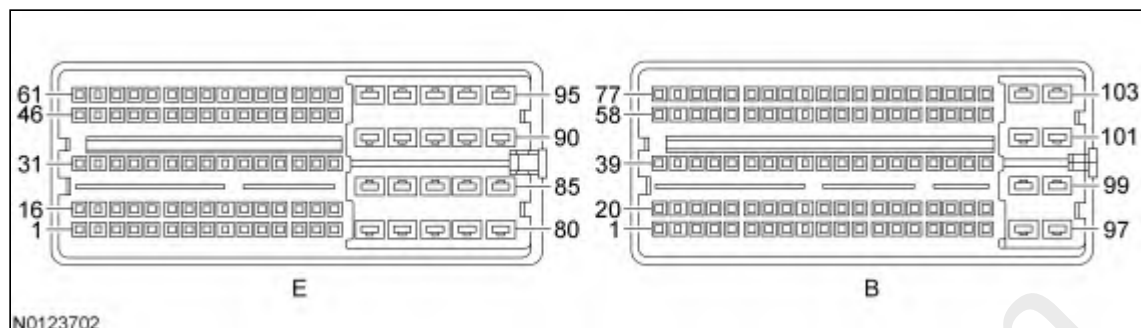


2.0L Transit Connect**198 Pin PCM****Typical Diagnostic Reference Values**

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	19 (66.2)	19 (66.2)	19 (66.2)	19 (66.2)	DEG C (DEG F)
AAT_V	AAT Sensor	1.54	1.36	2.34	2.47	VOLTS
AC_REQUEST	PID	NO	NO	NO	NO	YES/NO
APP	APP Sensor	0	0	13	13	%
APP1	APP Sensor	0.78	0.78	1.19	1.23	VOLTS
APP1 (APP_D)	APP Sensor	15	15	24	24	%
APP2	APP Sensor	0.40	0.40	0.60	0.62	VOLTS
APP2 (APP_E)	APP Sensor	8	8	12	12	%
APP_MAXDIFF	PID	0	0	0	0	DEG
BARO	PID	99 (14.36)	100 (14.50)	100 (14.50)	99 (14.36)	kPa (PSI)/ Hz
BARO_V	PID	3.91	3.91	3.91	3.91	VOLTS
BOO1	BPP Switch	FALSE	FALSE	FALSE	FALSE	TRUE/FALSE
BOO2	BPP Switch	FALSE	FALSE	FALSE	FALSE	TRUE/FALSE
BRKOV RD_POSS	PID	27	27	28	28	NUMERIC VALUE
BRKOV R_ACTION	PID	0	0	0	0	NUMERIC VALUE
CAM_SYNC	PID	NO	YES	YES	YES	YES/NO

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
CATEMP11	CAT11 Sensor	494 (921.2)	522 (971.6)	747 (1,376.6)	911 (1,671.8)	DEG C (DEG F)
CHT	CHT Sensor	98 (208.4)	88 (190.4)	87 (188.6)	87 (188.6)	DEG C (DEG F)
CHT_V	CHT Sensor	3.45	3.75	3.79	3.80	VOLTS
CLRDIST	PID	0 (0)	0 (0)	0 (0)	2.0 (1.24)	KM (MILES)
DIST_ BRKOVDR	PID	26 (16.16)	26 (16.16)	26.5 (16.47)	27.5 (17.09)	KM (MILES)
DTCCNT_OBD	PID	0	0	0	0	NUMERIC VALUE
ECT	ECT Sensor	97 (60.27)	87 (54.06)	85 (52.82)	85 (52.82)	DEG C (DEG F)
EQ_RAT11	PID	0	1	0.98	0.97	RATIO
ETC_ACT	PID	11.92	4.66	17.48	18.23	DEG
ETC_TRIM	PID	0	0	0	0	DEG
FLI	Fuel Level Sensor	50 (H)	49 (H)	51 (H)	47 (H)	%
FLP	Fuel Pressure Sensor	621 (90.07)	550 (79.77)	538 (78.03)	547 (79.34)	kPa (PSI)
FLP_V	Fuel Pressure Sensor	4.02	3.59	3.52	3.57	VOLTS
FPM	PID	40	40	40	40	%
FRP	FRP Sensor	4.57 (662.82)	6.38 (925.34)	11.88 (1723.05)	10.17 (1,475.03)	MPa (PSI)
FRP_V	FRP Sensor	1.14	1.38	2.19	1.96	VOLTS
FRT_V	FRT Sensor	2.18	2.17	2.17	2.17	VOLTS
FTP_V	FTP Sensor	2.63	2.63	2.47	2.47	VOLTS
HTRCM11	HO2S11 Sensor	0	0	0	0	mA
HTRCM12	HO2S12 Sensor	0	0	0	0	mA
IAT	IAT Sensor	56 (132.8)	55 (131)	55 (131)	47 (116.6)	DEG C (DEG F)
IAT11	IAT Sensor	56 (132.8)	55 (131)	56 (132.8)	47 (116.6)	DEG C (DEG F)
IAT12	IAT2 Sensor	68 (154.4)	66 (150.8)	67 (152.6)	62 (143.6)	DEG C (DEG F)
IAT1_V	IAT Sensor	1.16	1.21	1.18	1.47	VOLTS
IAT2	IAT2 Sensor	68 (154.4)	66 (150.8)	67 (152.6)	62 (143.6)	DEG C (DEG F)
IAT2_V	IAT2 Sensor	0.88	0.92	0.90	1.02	VOLTS
INJPWR_M	PID	12.69	12.89	12.83	12.53	VOLTS
KNOCK_1	KS11 Sensor	999.00	103.00	218.00	474.00	COUNT
KNOCK_2	KS12 Sensor	999.00	94.00	263.00	491.00	COUNT
LOAD	PID	0.00 (I)	60	80	95	%
LONGFT1	PID	(I)	-20 TO +20	-20 TO +20	-20 TO +20	%
MAF	MAF Sensor	0 00	6.31	25.16	47.95	g/s
MAF_HZ	MAF Sensor	0.71	3.07	5.39	6.66	kHz
MAP	MAP Sensor	99 (14.36)	62 (8.99)	84 (12.18)	100 (14.50)	kPa (PSI)
MAP_V	MAP Sensor	3.97	2.38	3.47	4.01	VOLTS
MIL_DIS	PID	0 (0)	0 (0)	0 (0)	0 (0)	KM (MILES)
MISFIRE	PID	FALSE	FALSE	FALSE	FALSE	TRUE/FALSE

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
MP_LRN	PID	TRUE	TRUE	TRUE	TRUE	TRUE/FALSE
NUM_MISFIRE	PID	0	0	1	2	COUNT
O2S11_CUR	HO2S11 Sensor	(I)	switching	switching	switching	mA/uA
O2S11_IMP	HO2S11 Sensor	5.00	0.14	0.17	0.17	VOLTS
O2S11_READY	HO2S11 Sensor	FALSE	TRUE	TRUE	TRUE	TRUE/FALSE
O2S12	HO2S12 Sensor	(I)	switching (D)	switching (D)	switching (D)	VOLTS
OCTADJ_R_LRND	PID	-0	-0	-0	-0	%
OSS_RAW	OSS Sensor	0	0	1616	2919	RPM
RO2FT1	PID	0	-0.02	-0.01	0.02	%
RPM	CKP Sensor	0	900	2333	1813	RPM
SHRTFT1	PID	(I)	-10 TO +10	-10 TO +10	-10 TO +10	%
SYNC	PID	NO	YES	YES	YES	YES/NO
TP1_LRN_TRIM	ETBTPS	6.13	6.13	6.13	6.13	DEG
TP2_LRN_TRIM	ETBTPS	0 00	0 00	0 00	0 00	DEG
TP_REL	PID	12	5	17	9	VOLTS
VCTSYS	PID	DISABLED	ENABLED	ENABLED	ENABLED	OPEN LOOP/ CLOSED LOOP ENABLED/DISABLED
VCT_EXH_ACT1	PID	0	0	19.56	29.56	DEG
VCT_EXH_DIF1	PID	0	-0.06	0.31	-1.19	DEG
VCT_INT_ACT1	PID	0	-5.75	-24.31	-0.31	DEG
VCT_INT_DIF1	PID	0	0.13	0.75	0.31	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)	

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
DIST_AEIS	PID	0 (0)	0 (0)	0 (0)	0 (0)	KM (MILES)
EGRMC1F	EGR Actuator	FALSE	FALSE	FALSE	FALSE	TRUE/FALSE
EGRMC2F	EGR Actuator	FALSE	FALSE	FALSE	FALSE	TRUE/FALSE
EGRMC3F	EGR Actuator	FALSE	FALSE	FALSE	FALSE	TRUE/FALSE
EGRMC4F	EGR Actuator	FALSE	FALSE	FALSE	FALSE	TRUE/FALSE
EGRPCT	PID	1	1	1	35	%
EGR_STEP	EGR Valve	0	0	0	14	POSITION
ETC_[TAC_PCT]	PID	9	7	17	9	%
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPCP	EVAPCP Valve	0	0	30	12	%
EVAPCV	CANV Valve	0	0	0	0	%/ON-OFF
EVAPPCT	PID	0	0	30	12	%
EVAPSOAK	PID	NO	NO	NO	NO	YES/NO
EVAPSTA	PID	NOT RUNNING	NOT RUNNING	NOT RUNNING	NOT RUNNING	STATUS
FP	Fuel Pump Control Module	75	29	29	28	%
FRP_DSD	PID	0.44 (63.82)	6.38 (925.34)	12.41 (1799.92)	13.74 (1992.82)	MPa (PSI)
FUELSYS_CL	PID	NO	YES	YES	YES	YES/NO
FUELSYS_OL	PID	NO	NO	NO	NO	YES/NO
FUEL_RDY	PID	NO	NO	NO	NO	YES/NO
F_VCV	Fuel Injection Pump	0	10	14	9	%
HTR11	HO2S11 Sensor	OFF	ON	ON	ON	ON/OFF
HTR12	HO2S12 Sensor	OFF	ON	ON	ON	ON/OFF
MIL_OBD	PID	OFF	OFF	OFF	OFF	ON/OFF
O2S11_HTR	HO2S11 Sensor	22	32	25	18	%
O2_DS_DISBL	PID	TRUE	TRUE	FALSE	FALSE	TRUE/FALSE
PATSENABL	PID	ENABLED	ENABLED	ENABLED	ENABLED	ENABLED/DISABLED
RPMDSD	PID	900	900	870	870	RPM
SPARKADV	PID	0.00	11.00	42.50	42.00	DEG
VCT_EXH_DC1	VCT12 Solenoid	0	0	43	41	%

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_DC1	VCT11 Solenoid	0	39	38	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	VBAT	VBAT	VBAT	VBAT	VOLTS
VREF	PID	5	5	5	5	VOLTS

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