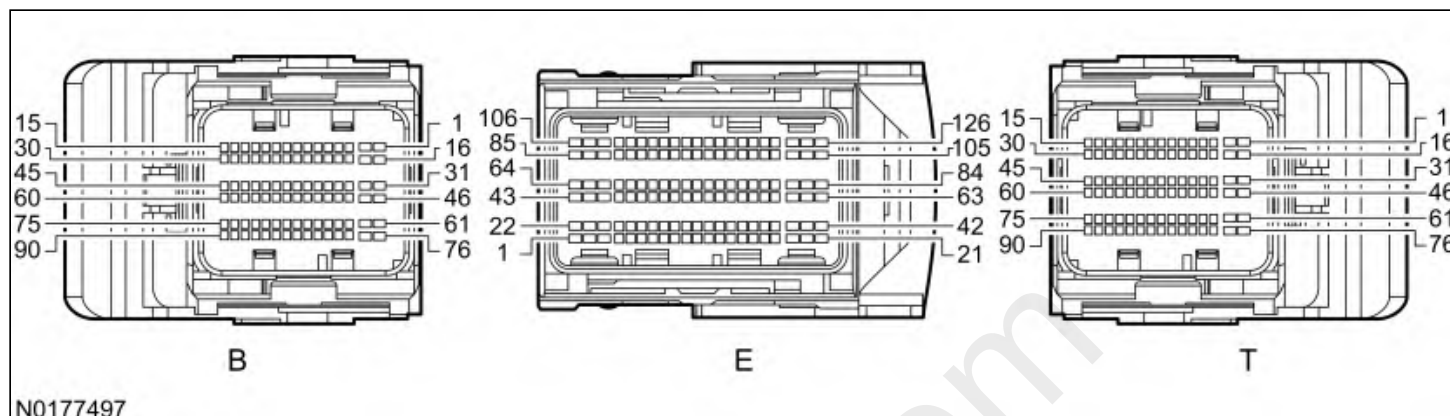


3.0L GTDI Aviator

306 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	1 (33.8)	1 (33.8)	1 (33.8)	1 (33.8)	DEG C (DEG F)
AAT_V	AAT Sensor	3.48	3.46	3.80	3.87	VOLTS
AC_REQUEST	PID	NO	NO	NO	NO	YES/NO
APP	APP Sensor	0	0	16	23	%
APP1	APP Sensor	0.78	0.77	1.27	1.51	VOLTS
APP1_ [APP_D]	APP Sensor	15	15	25	30	%
APP2	APP Sensor	0.39	0.40	0.63	0.75	VOLTS
APP2_ [APP_E]	APP Sensor	7	8	13	15	%
APP_ MAXDIFF	PID	0	0	0.06	0.06	DEG
BARO	PID	100 (14.50)	100 (14.50)	100 (14.50)	100 (14.50)	kPa (PSI)/
BARO_V	PID	3.92	3.92	3.91	3.91	VOLTS
BATT_V_INF	PID	11.96	15.19	15.09	15.09	VOLTS
BOO1	BPP Switch	FALSE	FALSE	FALSE	FALSE	TRUE/FALSE
BOO2	BPP Switch	FALSE	FALSE	FALSE	FALSE	TRUE/FALSE
BRKOV RD_ POSS	PID	149	149	150	150	NUMERIC VALUE
BRKOV R_ 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)	
CAC_T	CACT Sensor	30 (86)	31 (87.8)	29 (84.2)	23 (73.4)	DEG C (DEG F)
CAC_V	CACT Sensor	2.22	2.18	2.28	2.56	VOLTS
CATTEMP11	CAT11 Sensor	143 (289.4)	141 (285.8)	314 (597.2)	401 (753.8)	DEG C (DEG F)
CATTEMP12	CAT12 Sensor	143 (289.4)	141 (285.8)	314 (597.2)	401 (753.8)	DEG C (DEG F)
CHT	CHT Sensor	76 (168.8)	74 (165.2)	86 (186.8)	88 (190.4)	DEG C (DEG F)
CHT2	CHT2 Sensor	76 (168.8)	77 (170.6)	91 (195.8)	95 (203)	DEG C (DEG F)
CHT2_V	CHT2 Sensor	0.85	0.82	0.56	3.57	VOLTS
CLRDIST	PID	0 (0)	0 (0)	0 (0)	2 (1.24)	KM (MILES)
CRNKCAS_PR	Crankcase Pressure Sensor	-0.05 (-0.01)	-0.02 (-0)	-0.22 (-0.03)	0.24 (0.03)	kPa (PSI)
CRNKCAS_P_V	Crankcase Pressure Sensor	3.90	3.92	3.83	4.04	VOLTS
DECHOKE	PID	YES	NO	NO	NO	YES/NO
DIST_BRKOV	PID	3786.5 (2352.82)	3786.5 (2352.82)	3787 (2353.13)	3788.5 (2354.07)	KM (MILES)
DTCCNT	PID	0	0	0	0	NUMERIC VALUE
ECT	ECT Sensor	79 (174.2)	78 (172.4)	82 (179.6)	87 (188.6)	DEG C (DEG F)
ECT1_V	ECT Sensor	0.76	0.79	0.71	0.62	VOLTS
EQ_RAT11	PID	0.00	0.00	0.99	1.03	RATIO
EQ_RAT21	PID	0.00	0.00	0.99	0.97	RATIO
ETC_ACT	PID	8.09	2.84	13.69	22.41	DEG
ETC_TRIM	PID	-0.30	-0.30	-0.29	-0.29	DEG
FLI	Fuel Level Sensor	100 (H)	100 (H)	94 (H)	100 (H)	%
FLP	Fuel Pressure Sensor	574 (83.25)	474 (68.75)	464 (67.30)	484 (70.20)	kPa (PSI)
FLP_V	Fuel Pressure Sensor	3.74	3.31	3.00	3.19	VOLTS
FPM	PID	40	41	40	40	%
FRP	FRP Sensor	9.10 (1319.84)	2.10 (304.58)	11.76 (1705.64)	18.53 (2687.55)	MPa (PSI)
FRP_V	FRP Sensor	1.58	0.53	1.77	2.69	VOLTS
FRT_V	FRT Sensor	5	5	5	5	VOLTS
FTP_V	FTP Sensor	2.61	2.61	2.61	2.53	VOLTS
HTRCM11	HO2S11 Sensor	0.00	0.00	0.00	0.00	mA
HTRCM12	HO2S12 Sensor	0.00	0.00	0.00	0.00	mA
HTRCM21	HO2S21 Sensor	0.00	0.00	0.00	0.00	mA
HTRCM22	HO2S22 Sensor	0.00	0.00	0.00	0.00	mA
IAT	IAT Sensor	32 (89.6)	30 (86)	23 (73.4)	22 (71.6)	DEG C (DEG F)
IAT11	IAT Sensor	32 (89.6)	30 (86)	23 (73.4)	22 (71.6)	DEG C (DEG F)
IAT12	IAT2 Sensor	44 (111.2)	43 (109.4)	38 (100.4)	37 (98.6)	DEG C (DEG F)
IAT1_V	IAT Sensor	1.93	2.02	2.29	2.38	VOLTS
IAT2	IAT2 Sensor	44 (111.2)	43 (109.4)	39 (102.2)	36 (96.8)	DEG C (DEG F)

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
IAT2_V	IAT2 Sensor	1.61	1.65	1.80	1.90	VOLTS
IGN_SW	Ignition Switch	ON	ON	ON	ON	ON/OFF
INJ_F	PID	NO	NO	NO	NO	YES/NO
INJ1-8_F	PID	NO	NO	NO	NO	YES/NO
KNK_CNTR_CYL1	PID	0				COUNT
KNK_CNTR_CYL2	PID	1	1	1	1	COUNT
KNK_CNTR_CYL3	PID	0	0	0	0	COUNT
KNK_CNTR_CYL4	PID	2	2	2	2	COUNT
KNK_CNTR_CYL5	PID	0	0	0	0	COUNT
KNK_CNTR_CYL6	PID	2	2	2	2	COUNT
KNOCK_1	KS11 Sensor	999.00	30	49	61	COUNT
KNOCK_2	KS12 Sensor	999.00	34	57	57	COUNT
LOAD	PID	0.00 (l)	28	39	68	%
LONGFT1	PID	(l)	-20 TO +20	-20 TO +20	-20 TO +20	%
LONGFT2	PID	(l)	-20 TO +20	-20 TO +20	-20 TO +20	%
MAP	MAP Sensor	99 (14.36)	36 (5.22)	52 (7.54)	89 (12.91)	kPa (PSI)
MAP_V	MAP Sensor	1.52	0.54	0.80	1.36	VOLTS
MIL_DIS	PID	0 (0)	0 (0)	0 (0)	0 (0)	KM (MILES)
MISFIRE	PID	FALSE	FALSE	FALSE	FALSE	TRUE/FALSE
MP_LRN	PID	TRUE	TRUE	TRUE	TRUE	TRUE/FALSE
NUM_MISFIRE	PID	0	0	0	0	COUNT
O2S11_CUR	HO2S11 Sensor	(l)	switching	switching	switching	mA/uA
O2S11_IMP	HO2S11 Sensor	5	10.02	1.01	1.03	VOLTS
O2S11_READY	HO2S11 Sensor	FALSE	FALSE	TRUE	TRUE	TRUE/FALSE
O2S11_TR	HO2S11 Sensor	0.00	91.30	91.30	91.30	Kohm
O2S12	HO2S12 Sensor	(l)	switching (D)	switching (D)	switching (D)	VOLTS
O2S21_CUR	HO2S21 Sensor	(l)	switching	switching	switching	mA/uA
O2S21_IMP	HO2S21 Sensor	5	9.91	1.02	1.03	VOLTS
O2S21_READY	HO2S21 Sensor	FALSE	FALSE	TRUE	TRUE	TRUE/FALSE
O2S21_TR	HO2S21 Sensor	0.00	97.10	97.10	97.10	Kohm

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
O2S22	HO2S22 Sensor	(I)	switching (D)	switching (D)	switching (D)	VOLTS
OCTADJ_R_LRND	PID	0	0	0	0	%
OSS_RAW	OSS Sensor	0	0	1139	2056	RPM
RO2FT1	PID	0.00	0.00	0.01	0.00	%
RO2FT2	PID	0.00	0.00	-0.01	0.00	%
RPM	CKP Sensor	0	877	1745	2060	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	99.7 (14.46)	99.7 (14.46)	101.2 (14.68)	102.8 (14.91)	kPa (PSI)
TCBP_V	TCBP Sensor	1.52	1.52	1.55	1.57	VOLTS
TP1_LRN_TRIM	ETBTPS	10.13	10.13	10.13	10.13	DEG
TP1_PER	ETBTPS	18	12	18	18	%
TP2_LRN_TRIM	ETBTPS	0.00	0.00	0.00	0.00	DEG
TP_REL	PID	8	2	9	8	VOLTS
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	0.00	0.06	43.56	9.81	DEG
VCT_EXH_ACT2	PID	0.00	0.19	44.38	10.31	DEG
VCT_EXH_DIF1	PID	0.00	0.00	0.56	0.88	DEG
VCT_EXH_DIF2	PID	0.00	-0.19	-0.25	0.63	DEG
VCT_INT_ACT1	PID	0.00	0.00	-0.56	-22.44	DEG
VCT_INT_ACT2	PID	0.00	-0.06	-0.63	-21.50	DEG
VCT_INT_DIF1	PID	0.00	0.00	0.69	2.00	DEG
VCT_INT_DIF2	PID	0.00	0.06	0.63	1.38	DEG
VSS	PID	0	0	48 km/h (30 MPH)	89 km/h (55 MPH)	km/h / MPH
WGATE_PRES	Wastegate Vacuum Sensor	100.50 (14.58)	100.50 (14.58)	56.00 (8.12)	57.50 (8.34)	kPa (PSI)

Inputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
WGATE_V	Wastegate Vacuum Sensor	4.29	4.29	2.55	2.55	VOLTS
WGATE_VAC_INF	PID	0.00 (0.00)	0.00 (0.00)	43.50 (6.31)	42.00 (6.09)	kPa (PSI)

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	1	1	1	1	NUMERIC VALUE
AEIS_POSS	PID	196	196	196	196	NUMERIC VALUE
CACC_FAN	Charge Air Cooler Cooling Fan	0	0	0	0	%
CYL_1-8_ACCL	PID	(I)	-1 TO +1	-1 TO +1	-1 TO +1	NUMERIC VALUE
DIST_AEIS	PID	6148.5 (3820.50)	6148.5 (3820.50)	6149 (3820.81)	6149.5 (3821.12)	KM (MILES)
ETC_[TAC_PCT]	PID	9	3	17	27	%
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAPCP	EVAPCP Valve	0	4	0	88	%
EVAPCV	CANV Valve	0	0	0	0	%/ON-OFF
EVAPPCT	PID	0	4	0	88	%
EVAPSOAK	PID	YES	YES	YES	YES	YES/NO
FAN_DSD	PID	0	0	0	0	%
FP	Fuel Pump Control Module	75	21	22	23	%
FRP_DSD	PID	0.47 (68.17)	2.06 (298.78)	11.38 (1650.53)	17.87 (2591.82)	MPa (PSI)
FUELSYS_CL	PID	NO	YES	YES	YES	YES/NO
FUELSYS_OL	PID	NO	NO	NO	NO	YES/NO
F_VCV	Fuel Injection Pump	0	8	16	31	%
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
INJECTOR_OFF	Injector 1-6	----	----	----	----	----/ DISABLE
LFC	PID	OFF	OFF	OFF	OFF	ON/OFF

Outputs	Component/PID Only	Measured/PID Values				Units Measured/PID
		KOEO	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
MFC	PID	OFF	OFF	OFF	OFF	ON/OFF
MIL_OBD	PID	OFF	OFF	OFF	OFF	ON/OFF
O2S11_HTR	HO2S11 Sensor	21	76	35	38	%
O2S21_HTR	HO2S21 Sensor	21	76	35	35	%
O2_DS_ DISBL	PID	TRUE	TRUE	TRUE	TRUE	TRUE/FALSE
PATSENABL	PID	DISABLED	DISABLED	DISABLED	DISABLED	ENABLED/ DISABLED
RPM_DSD	PID	625	625	625	625	RPM
SPARKADV	PID	8	7.50	37.00	38.00	DEG
TURBO_ BPASS	TCBY Valve	0	0	0	0	%
TURBO_ WGATE	Turbocharger Wastegate Control	0	3	53	42	%
VCT_EXH_ DC1	VCT12 Solenoid	0	0	43	41	%
VCT_EXH_ DC2	VCT22 Solenoid	0	0	43	42	%
VCT_INT_ DC1	VCT11 Solenoid	0	0	0	34	%
VCT_INT_ DC2	VCT21 Solenoid	0	0	0	35	%

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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