

1. This wiring file assumes you are starting with a 1996 V-8 Truck. If your truck is a 5.0 liter (305) it would probably be best not to hook up the after Cat O2 sensor—Have the PCM tuned for NO post Cat O2 sensors. 2. Have the PCM programmed for NO VATS. 3. The Evap canister vacuum switch that the 96 has is not supported by the 0411. The 96 does not have a Fuel Tank Pressure Sensor—Have the PCM programmed for NO Fuel Tank Pressure Sensor, Unless you want to install a 98-2000 Fuel Tank Pressure Sensor and Charcoal Canister with its vent valve, to have a fully functional Evap System. 4. Hook the Pink wire of a 98-2000 charcoal canister vent valve to the leftover Pink wire of C1 pin 4 of the 96 PCM, and hook the White wire of the vent valve to connector C2 RED pin 45 of the 0411 PCM. Have the 0411 programmed for NO Alternator codes. 5. You will probably need to do a Crank Relearn after the PCM swap—If so, you will have a Check Engine Light with code P1336 until you perform the relearn. Even if you don't get code P1336 you should still perform the Crank Relearn. 6. On the 0411 you need to ground C2-55 for the A/C to work. 7. If you are keeping the EGR installed and plugged in, you need to cut the PINK wire at the EGR connector and tape that wire back into the harness—THE PINK WIRE WILL NOT BE USED. Run a wire from the short/cut pink wire at the EGR connector directly to the 0411 C2 Red pin 7. Give pin C1-71 a MOMENTARY ground if Tow/Haul has been enabled in the tune.

Version #5

On the 411, Pin 56 of connector C2 Red can be used to activate Valet Mode, if using an EFLive Custom Operating System. Use a Toggle Switch to give this pin a ground when activated.

On the 96 PCM connector C1 is Blue, C2 is Red, C3 is White/Clear, C4 is Black. C5 is Black with 2 wires that are not used on the 0411.

Wire Color	Circuit No.	Wire Function	PCM	Connector	Pin	Connector	Pin	PCM
		Not Used	411			C1	1	96
		Not Used	411			C1	2	96
BRN/WHT	633	CMP Sensor Signal	411	C1	73	C1	3	96
PNK	539	Ignition Feed-Not Used. Tape back into harness or use it to power the Charcoal Canister Vent Valve, if you are using a 98-2000 Canister.	411			C1	4	96
DK.BLU/WHT	878	Injector # 8 Control	411	C1	77	C1	5	96
		Not Used	411			C1	6	96
TAN	1667	HO2S Low Bank 2 Sensor 1	411	C1	26	C1	7	96
PNK/BLK	632	CMP Sensor Low Reference	411	C1	61	C1	8	96
		Not Used	411			C1	9	96
TAN/BLK	422	TCC Solenoid Control 4L60 Trans	411	C2	42	C1	10	96
		Not Used	411			C1	11	96
DK.GRN/WHT	428	EVAP Canister Purge Solenoid Control	411	C2	34	C1	12	96
WHT	687	3-2 Shift Solenoid Valve Control 4L60 Trans	411	C1	79	C1	13	96
BRN	436	AIR Pump Relay Control If Equipped	411	C2	36	C1	14	96
WHT	1827	Vehicle Speed Output to Brake Control Module	411	C2	49	C1	15	96
		Not Used	411			C1	16	96
		Not Used	411			C1	17	96
EGR	Connector	12 Volt supply for EGR valve	411	C2	7	Pink Wire	egr	96
GRY	435	EGR Valve Control	411	C2	41	C1	18	96
PPL/WHT	1665	HO2S High Bank 1 Sensor 1	411	C1	69	C1	19	96
PPL	1670	HO2S High Bank 2 Sensor 2	411	C1	65	C1	20	96
PPL	1666	HO2S High Bank 2 Sensor 1	411	C1	66	C1	21	96
PPL/WHT	1668	HO2S High Bank 1 Sensor 2	411	C1	68	C1	22	96
BLK/WHT	451	Ground. Not all 1996 trucks have this wire. If yours does use it for the A/C, and install it to C2-55	411	C2	55	C1	23	96
TAN	1671	HO2S Low Bank 2 Sensor 2	411	C1	25	C1	24	96
TAN/WHT	1653	HO2S Low Bank 1 Sensor 1	411	C1	29	C1	25	96
TAN/WHT	1669	HO2S Low Bank 1 Sensor 2	411	C1	28	C1	26	96
		Not Used	411			C1	27	96
PPL	574	CKP Sensor Low Reference	411	C1	21	C1	28	96
LT.GRN/BLK	822	Rear VSS Low Signal 4L60+80 Trans	411	C2	20	C1	29	96
PPL/WHT	821	Rear VSS High Signal 4L60+80 Trans	411	C2	21	C1	30	96
YEL	573	CKP Sensor Signal	411	C1	12	C1	31	96
		Not Used	411			C1	32	96
		Not Used	411			C2	1	96
		Not Used	411			C2	2	96
BLK	1744	Injector # 1 Control	411	C1	36	C2	3	96
YEL/BLK	1223	2-3 Shift Solenoid Valve Control 4L60+80 Trans	411	C2	47	C2	4	96
		Not Used	411			C2	5	96

LT.GRN	1222	1-2 Shift Solenoid Valve Control 4L60+80 Trans	411	C2	48	C2	6	96
BRN	418	TCC PWM Solenoid 4L60+80 Trans	411	C2	2	C2	7	96
		Not Used	411			C2	8	96
DK.GRN/WHT	459	A/C Compressor Clutch Relay Control	411	C2	43	C2	9	96
BRN	1456	EGR Valve Position Signal	411	C1	55	C2	10	96
LT.GRN/BLK	1745	Injector # 2 Control	411	C1	3	C2	11	96
RED/BLK	877	Injector # 7 Control	411	C1	44	C2	12	96
LT.GRN/WHT	1749	IAC High Coil B	411	C2	76	C2	13	96
LT.BLU/WHT	1747	IAC High Coil A	411	C2	79	C2	14	96
BLK/WHT	845	Injector # 5 Control	411	C1	76	C2	15	96
YEL/BLK	846	Injector # 6 Control	411	C1	37	C2	16	96
		Not Used	411			C2	17	96
		Not Used	411			C2	18	96
DK. BLU	496	Knock Sensor Signal	411	C1	51	C2	19	96
		Not Used	411			C2	20	96
LT. GRN	432	MAP Signal	411	C2	32	C2	21	96
TAN	472	IAT Signal	411	C2	25	C2	22	96
YEL	410	ECT Signal	411	C1	74	C2	23	96
DK/BLU	417	TPS Signal YES-It's the same C2 pin 24 on both	411	C2	24	C2	24	96
		Not Used	411			C2	25	96
BLK		Not Used	411			C2	26	96
YEL/BLK	1227	TFT Signal Automatic Transmission only	411	C2	51	C2	27	96
YEL	492	MAF Signal	411	C2	31	C2	28	96
LT.GRN/BLK	444	IAC Low Coil B	411	C2	77	C2	29	96
LT.BLU/BLK	1748	IAC Low Coil A	411	C2	78	C2	30	96
LT.BLU/BLK	844	Injector #4 Control	411	C1	43	C2	31	96
PNK/BLK	1746	Injector #3 Control	411	C1	4	C2	32	96
		Not Used	411			C3	1	96
		Not Used	411			C3	2	96
		Not Used	411			C3	3	96
BLK		ECT and TPS Low Reference	411	C1	60	C3	4	96
		Not Used	411			C3	5	96
RED/BLK	1228	Pressure Control Solenoid-High 4L60-80 Trans	411	C2	6	C3	6	96
DK.BLU/WHT	1231	Front VSS High Signal 4L80 Trans	411	C2	22	C3	7	96
RED/BLK	1230	Front VSS Low Signal 4L80 Trans	411	C2	23	C3	8	96
WHT	423	IC Timing Control	411	C2	26	C3	9	96
		Not Used	411			C3	10	96
RED	1226	Transmission Range Pressure Signal C	411	C1	18	C3	11	96
GRY	416	TPS 5 Volt Reference	411	C1	8	C3	12	96
		Not Used	411			C3	13	96
		Not Used	411			C3	14	96
BRN		Evap Canister Vacuum Sw. on the 96. This switch is NOT SUPPORTED by the 0411. Tape this wire back into the harness.	411			C3	15	96
LT.BLU/WHT	1229	Pressure Control Solenoid Low Control	411	C2	8	C3	16	96
BLK/WHT	451	Ground	411	C1	1	C3	17	96
BLK/WHT	451	Ground	411	C2	1	C3	18	96
BLK	2670	IAT/MAP/EGR/TFT Low Reference	411	C2	57	C3	19	96
		Not Used	411			C3	20	96
ORN	440	Battery Positive --12 Volts constant-- ECM-B Fuse	411	C1	20	C3	21	96
DK.BLU	1225	Transmission Range Pressure Signal B	411	C1	17	C3	22	96
PNK	1224	Transmission Range Pressure Signal A	411	C2	63	C3	23	96
		Not Used	411			C3	24	96
DK.GRN/WHT	762	A/C Request Signal	411	C2	17	C3	25	96
		Not Used	411			C3	26	96
GRAY	474	5 Volt Reference For EGR and MAP	411	C1	47	C3	27	96
		Not Used	411			C3	28	96
		Not Used	411			C3	29	96
		Not Used	411			C3	30	96
		Not Used	411			C3	31	96

		Not Used	411			C3	32	96
DK.GRN/WHT	465	Fuel Pump Relay Control	411	C2	9	C4	1	96
		Not Used	411			C4	2	96
DK.GRN/WHT	817	VSS Tie C4 pin 3+4 together and install to C2 pin 50 on 411	411	C2	50	C4	3	96
DK.GRN	389	VSS Tie C4 pin 3+4 together and install to C2 pin 50 on 411	411	C2	50	C4	4	96
BRN/WHT	419	MIL Control	411	C2	46	C4	5	96
		Not Used	411			C4	6	96
		Not Used	411			C4	7	96
		Not Used	411			C4	8	96
		Not Used	411			C4	9	96
PPL	420	Brake Switch Input	411	C1	33	C4	10	96
PPL	1807	Class 2 Serial Data	411	C1	59	C4	11	96
BLK	451	Ground. Not all 96 trucks have this wire. If yours does install it to 0411 pin C2-40	411	C2	40	C4	12	96
BRN	441	Ignition Feed -- 12 Volts Switched	411	C1	75	C4	13	96
		Not Used	411			C4	14	96
		Not Used	411			C4	15	96
		Not Used	411			C4	16	96
		Not Used	411			C4	17	96
PNK	439	Ignition Feed -- 12 Volts Switched	411	C1	19	C4	18	96
BLK/WHT	1695	Front Axle Engaged Signal (Even if it's 2WD)	411	C2	19	C4	19	96
		Not Used	411			C4	20	96
		Not Used	411			C4	21	96
		Not Used	411			C4	22	96
GRY/BLK	1694	4WD Low Range (Even if it's 2WD)	411	C2	16	C4	23	96
LT.BLU/BLK	396	Cruise Control Engaged Signal	411	C2	13	C4	24	96
BLK		Not Used				C5	1	96
BLK		Not Used				C5	2	96
BLK/WHT	451	Ground	96	C3	17	C1	1	411
		Not Used	96			C1	2	411
LT. GRN/BLK	1745	Injector #2 Control	96	C2	11	C1	3	411
PNK/BLK	1746	Injector #3 Control	96	C2	32	C1	4	411
		Not Used	96			C1	5	411
		Not Used	96			C1	6	411
		Not Used	96			C1	7	411
GRAY	2701	TPS 5 Volt Reference	96	C3	12	C1	8	411
		Not Used	96			C1	9	411
		Not Used	96			C1	10	411
		Not Used	96			C1	11	411
YEL	573	CKP Sensor Signal	96	C1	31	C1	12	411
		Not Used	96			C1	13	411
		Not Used	96			C1	14	411
		Not Used	96			C1	15	411
		Not Used	96			C1	16	411
DK. BLU	1225	Transmission Fluid Pressure Switch Signal B	96	C3	22	C1	17	411
RED	1226	Transmission Fluid Pressure Switch Signal C	96	C3	11	C1	18	411
PNK	439	Ignition Feed -- 12 Volts Switched	96	C4	18	C1	19	411
ORN	440	Battery Positive --12 Volts constant	96	C3	21	C1	20	411
PPL	574	CKP Sensor Low Reference	96	C1	28	C1	21	411
		Not Used	96			C1	22	411
BLK	470	Low Reference For Fuel Tank Pressure Sensor, add a Black wire and run it to the Fuel Tank Pressure Sensor.	96	Add a Black	Wire	C1	23	411
		Not Used	96			C1	24	411
TAN	1671	HO2S Low Signal Bank 2 Sensor 2	96	C1	24	C1	25	411
TAN	1667	HO2S Low Signal Bank 2 Sensor 1	96	C1	7	C1	26	411
		Not Used	96			C1	27	411
TAN/WHT	1669	HO2S Low Signal Bank 1 Sensor 2	96	C1	26	C1	28	411
TAN/WHT	1653	HO2S Low Signal Bank 1 Sensor 1	96	C1	25	C1	29	411

		Not Used	96			C1	30	411
		Not Used	96			C1	31	411
BLK/WHT	771	Transmission Range Switch Signal A	96	Trans Harness	Blk/Wht	C1	32	411
PPL	420	TCC Brake Switch Input	96	C4	10	C1	33	411
WHT	776	Transmission Range Switch Signal P	96	Trans Harness	White	C1	34	411
		Not Used	96			C1	35	411
BLK	1744	Injector #1 Control	96	C2	3	C1	36	411
YEL/BLK	846	Injector #6 Control	96	C2	16	C1	37	411
		Not Used	96			C1	38	411
		Not Used	96			C1	39	411
		Not Used	96			C1	40	411
		Not Used	96			C1	41	411
		Low Speed #1 Cooling Fan If programmed	96			C1	42	411
LT.BLU/BLK	844	Injector #4 Control	96	C2	31	C1	43	411
RED/BLK	877	Injector #7 Control	96	C2	12	C1	44	411
		Not Used	96			C1	45	411
GRAY	2709	5 Volt Reference For Fuel Tank Pressure Sensor. Add a Gray wire and run it to the Fuel Tank Pressure Sensor.	96	Add a Gray	Wire	C1	46	411
GRAY	2702	5 Volt Reference For EGR and MAP	96	C3	27	C1	47	411
		Not Used	96			C1	48	411
		Not Used	96			C1	49	411
		Not Used	96			C1	50	411
DK. BLU	496	Knock Sensor Signal	96	C2	19	C1	51	411
		Not Used	96			C1	52	411
		Not Used	96			C1	53	411
		Not Used	96			C1	54	411
BRN	1456	EGR Valve Position Signal	96	C2	10	C1	55	411
		Not Used	96			C1	56	411
		Not Used	96			C1	57	411
		Not Used	96			C1	58	411
PPL	1807	Class 2 Serial Data	96	C4	11	C1	59	411
BLK	2752	ECT and TPS Low Reference	96	C3	4	C1	60	411
PNK/BLK	632	CMP Sensor Low Reference	96	C1	8	C1	61	411
		Not Used	96			C1	62	411
		Not Used	96			C1	63	411
		Not Used	96			C1	64	411
PPL	1670	HO2S High Signal Bank 2 Sensor 2	96	C1	20	C1	65	411
PPL	1666	HO2S High Signal Bank 2 Sensor 1	96	C1	21	C1	66	411
		Not Used	96			C1	67	411
PPL/WHT	1668	HO2S High Signal Bank 1 Sensor 2	96	C1	22	C1	68	411
PPL/WHT	1665	HO2S High Signal Bank 1 Sensor 1	96	C1	19	C1	69	411
		Not Used	96			C1	70	411
		Give this pin a MOMENTARY ground to activate Tow/Haul mode if it has been enabled in the tune.	96			C1	71	411
YEL	772	Transmission Range Switch Signal B	96	Trans Harness	Yellow	C1	72	411
BRN/WHT	633	CMP Sensor Signal	96	C1	3	C1	73	411
YEL	410	ECT Sensor Signal	96	C2	23	C1	74	411
BRN	441	Ignition Voltage-12 Volts switched	96	C4	13	C1	75	411
BLK/WHT	845	Injector #5 Control	96	C2	15	C1	76	411
DK. BLU/WHT	878	Injector #8 Control	96	C1	5	C1	77	411
		Not Used	96			C1	78	411
WHT	687	3-2 Shift Solenoid Valve Control 4L60 Trans	96	C1	13	C1	79	411
		Not Used	96			C1	80	411
BLK/WHT	451	Ground	96	C3	18	C2	1	411
BRN	418	TCC PWM Solenoid Control 4L60+80 Trans	96	C2	7	C2	2	411
		Not Used	96			C2	3	411
		Not Used	96			C2	4	411
		Not Used	96			C2	5	411
RED/BLK	1228	PC Solenoid High Control 4L60+80 Trans	96	C3	6	C2	6	411
EGR	Connector	12 Volt supply for EGR valve	96	Pink Wire	EGR	C2	7	411

LT. BLU/WHT	1229	PC Solenoid Low Control 4L60+80 Trans	96	C3	16	C2	8	411
DK. GRN/WHT	465	Fuel Pump Relay Control	96	C4	1	C2	9	411
DK. GRN/WHT	762	A/C Request Signal	96	C3	25	C2	17	411
		Not Used	96			C2	18	411
BLK/WHT	1695	Front Axle Engaged Signal (Even if it's 2WD)	96	C4	19	C2	19	411
LT. GRN/BLK	822	Rear VSS Low Signal 4L60+80 Trans	96	C1	29	C2	20	411
PPL/WHT	821	Rear VSS High Signal 4L60+80 Trans	96	C1	30	C2	21	411
DK.BLU/WHT	1231	Front VSS High Signal 4L80 Trans	96	C3	7	C2	22	411
RED/BLK	1230	Front VSS Low Signal 4L80 Trans	96	C3	8	C2	23	411
DK. BLU	417	TPS Signal (YES it's the same)	96	C2	24	C2	24	411
TAN	472	IAT Sensor Signal	96	C2	22	C2	25	411
WHT	423	IC Timing Control	96	C3	9	C2	26	411
		Not Used	96			C2	27	411
		Not Used	96			C2	28	411
		Not Used	96			C2	29	411
		Not Used	96			C2	30	411
YEL	492	MAF Sensor Signal	96	C2	28	C2	31	411
LT. GRN	432	MAP Sensor Signal	96	C2	21	C2	32	411
		Hi Speed #2 Cooling fan If Programmed	96			C2	33	411
DK. GRN/WHT	428	EVAP Canister Purge Solenoid Control	96	C1	12	C2	34	411
		Not Used	96			C2	35	411
BRN	436	AIR Pump Relay Control If Equipped	96	C1	14	C2	36	411
		Not Used	96			C2	37	411
		Not Used	96			C2	38	411
		Not Used	96			C2	39	411
BLK	451	Ground. Not all 96 trucks have this wire. If yours does install it to 0411 pin C2-40	96	C4	12	C2	40	411
GRY	435	EGR Valve Control	96	C1	18	C2	41	411
TAN/BLK	422	TCC Solenoid Control 4L60 Trans	96	C1	10	C2	42	411
DK. GRN/WHT	459	A/C Compressor Clutch Relay Control	96	C2	9	C2	43	411
		Not Used	96			C2	44	411
	1310	EVAP Canister Vent Sol. Not used on the 96	96			C2	45	411
BRN/WHT	419	MIL Control	96	C4	5	C2	46	411
YEL/BLK	1223	2-3 Shift Solenoid Valve Control 4L60+80 Trans	96	C2	4	C2	47	411
LT. GRN	1222	1-2 Shift Solenoid Valve Control 4L60+80 Trans	96	C2	6	C2	48	411
WHT	1827	Vehicle Speed Output to Brake Control Module	96	C1	15	C2	49	411
DK.GRN + DK. GRN/WHT	817	VSS Signal Tie C4 pins 3+4 together and install to 411 C2 pin 50	96	C4	3+4	C2	50	411
YEL/BLK	1227	TFT Sensor Signal	96	C2	27	C2	51	411
		Not Used	96			C2	52	411
		Not Used	96			C2	53	411
		Not Used	96			C2	54	411
BLK/WHT	451	Ground. Not all 96 trucks have this wire. If yours does use it for the A/C, and install it to C2-55	96	C1	23	C2	55	411
		This pin can be used to activate Valet Mode when using an EFLive Custom Operating System.		Toggle	Switch	C2	56	411
BLK	2760	IAT/MAP/EGR/TFT Low Reference	96	C3	19	C2	57	411
		Not Used	96			C2	58	411
		Not Used	96			C2	59	411
		Not Used	96			C2	60	411
		Not Used	96			C2	61	411
GRY	773	Transmission Range Switch Signal C	96	Trans Harness	Gray	C2	62	411
PNK	1224	Transmission Fluid Pressure Switch Signal A	96	C3	23	C2	63	411
DK.GRN	890	Low Reference for Fuel Tank Pressure Sensor. Add a Green wire and run it to the Fuel Tank Pressure Sensor	96	Add a GREEN	Wire	C2	64	411
		Not Used	96			C2	65	411
		Not Used	96			C2	66	411
		Not Used	96			C2	67	411
		Not Used	96			C2	68	411
		Not Used	96			C2	69	411

		Not Used	96			C2	70	411
		Not Used	96			C2	71	411
		Not Used	96			C2	72	411
		Not Used	96			C2	73	411
		Not Used	96			C2	74	411
		Not Used	96			C2	75	411
LT. GRN/WHT	1749	IAC High Coil B	96	C2	13	C2	76	411
LT. GRN/BLK	444	IAC Low Coil B	96	C2	29	C2	77	411
LT. BLU/BLK	1748	IAC Low Coil A	96	C2	30	C2	78	411
LT. BLU/WHT	1747	IAC High Coil A	96	C2	14	C2	79	411
		Not Used	96			C2	80	411

