

# Rev. 05/02/23 **329057 '05-'14 Chevrolet LS/LSX DBW EV6 Injector w/T56/TH350/400 etc.**

This harness is designed for engine swap applications and therefore some modifications may be required in some applications. It is designed for use with 2005-2014 Chevrolet LS Engines using a LS1 style drive by wire T/B and EV6 injectors. It is also designed for non-electric controlled automatic transmissions.

Installation of this wiring harness should be carried out by a qualified technician or person with automotive wiring and electrical background/experience. As this is a "universal" harness, **technical information in regards to a specific application is not available for this product.** 

The harness is equipped with GM Delphi OE connectors/terminals and includes all the wiring required to connect vehicle sensors, fuel injection system and transmission (where required).

When working with sensitive electronics such as a PCM, take care when connecting/disconnecting the battery, avoid any electrical shorts and only use a volt/ohm meter for testing circuits.

# Notes regarding installation:

- 1) The VATS system will need to be removed from your PCM otherwise the engine will not start.
- 2) This harness is not equipped for emissions system equipment such as EGR, etc. PCM programming may be required to avoid malfunction codes.
- 3) A 2-position brake switch must be used. Closed circuit 12V when brakes off, and open circuit when brakes on. This is opposite from a standard brake switch. This is CRITICAL to the correct operation of the TCC.
- 4) This harness utilizes two pre-cat oxygen sensors (one per bank).
- 5) This harness includes enough wire to mount the PCM under dash.
- 6) The harness is divided by a grommet into two sections. Underhood (engine and related) and underdash (fuses, ignition, DLC etc.)

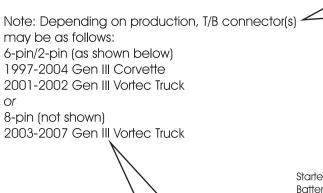
## Installation:

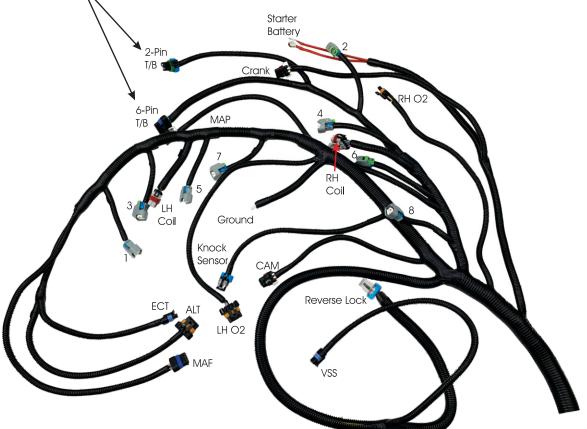
- 1) Unpackage and lay out the harness to review and familiarize yourself with all the connections. Ensure you have all the correct sensors.
- 2) Pick a PCM mounting location which will be within the reach of the harness PCM connection.
- 3) Cut a and debur a 2" hole in the firewall where the harness will pass and the grommet will fit.
- 4) Install the harness through the hole taking care to route away from exhaust, moving parts, suspension and sharp edges.
- 5) Check that there is enough wire to reach all sensors and PCM without stretching.
- 6) Ensure all ground wires are connected securely to clean ground points. (battery to chassis, chassis to engine, engine to body etc.)
- 7) Route the VSS wire (if applicable) down towards the transmission keeping it away from ignition system and wires.
- 8) Route the battery and crank sensor connections behind to the rear of the P/S cylinder head and under the header to their appropriate connection.
- 9) Route the PCM and fuse block connections under the dash. (leave the PCM disconnected from the harness)

#### **Under Hood**

- 1) Connect the two (ground) small ring terminals to the engine block/cylinder head.
- 2) Connect wires as shown.
- 3) Wiring is designed to take the OE routing along the intake manifold side of each valve cover. P/S has T/B & MAP connectors,
- 4) Route the VSS and transmission connectors to the transmission and connect accordingly.

	Connector	Color	
	#1 Fuel Injector	Pink/Black	
	#2 Fuel Injector	Pink/Dark Green	
	#3 Fuel Injector	Pink/Tan	
	#4 Fuel Injector	Pink/Light Blue	
	#5 Fuel Injector	Pink/White	
	#6 Fuel Injector	Pink/Yellow	
	#7 Fuel Injector	Pink/Red	
	#8 Fuel Injector	Pink/Dark Blue	
	Left Coil Bank	Black/Red/Dark Green/Brown	
	Left Coll Balik	Light Blue/Purple/Pink	
	Right Coil Bank	Black/Red/Dark Green/Brown	
	Rigiit Coll Balik	Light Blue/Purple/Pink	
	Left O2 Tan/Purple/Black/Pink		
	VSS	Green/Purple	
	Reverse Lock	Pink/Light Blue	
	Alternator	Red/Brown	
	MAF 5-Wire	Yellow/Black/Pink/Purple/Tan	
	ECT	Black/Yellow (Gray Loop-Water Temp)	
	T/B	Brown/Yellow	
•	T/B	Purple/LT Green/LT Blue/Green/Black/Gray	
	Knock Sensor	Dark Blue/Light Blue	
	MAP	Orange/Light Green/Gray	
	Cam Sensor	Black/Pink/Red (Tan Loop-Oil Pressure)	
	Right O2	Tan/Purple/Green/Pink	
	Crank Sensor	Dark Blue/Yellow/Light Blue	
	Battery/Starter (2)	Large ring terminals	
	Ground	Small ring terminals	

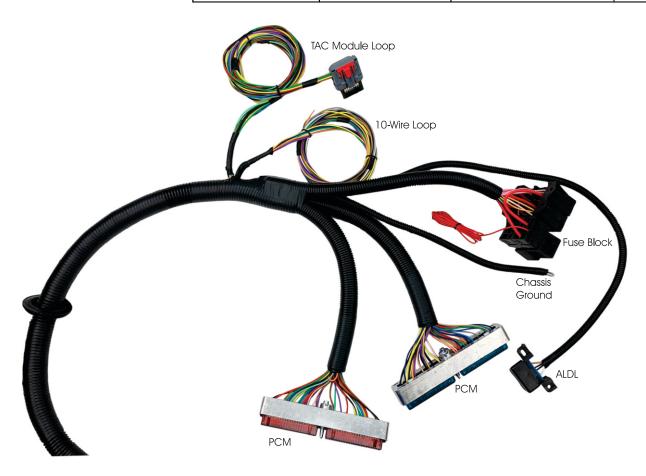




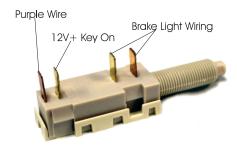
### **Under Dash**

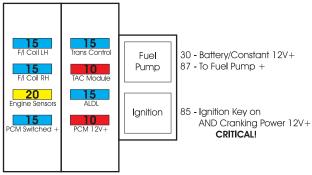
- 1) Disconnect battery (if connected)
- 2) With PCM unplugged, connect wires as shown.
- 3) Tape or seal any unused wire to prevent any shorts.
- 4) With the ignition off, connect the PCM taking care not to bend any pins.
- 5) Reconnect battery with the ignition off.

	UnderDash Wiring		
Circuit	Circuit From To		Color
10-Wire Loop			
DTC Light Ground	PIN 46 RED	MIL Light to 12V	Brown
Speedometer (Opt)	PIN 50 RED	Speedometer Module	Black
Tachometer (Opt)	PIN 10 RED	Tachometer	White
Electric Fan 1 Ground (Opt)	PIN 42 BLUE	Ground Fan Relay Trigger 1 (-)	Dark Green
Electric Fan 2 Ground (Opt)	PIN 33 RED	Ground Fan Relay Trigger 2 (-)	Dark Blue
Park Neutral (Opt)	PIN 34 BLUE	Ground when in Park/Neutral	Orange
Brake Signal	TAC Module Pin 6	12V Terminal (brake pedal down)	Yellow
Brake Signal	PIN 33 BLUE	12V Terminal (brake pedal up)	Purple
Water Temperature (Opt)	ECT PLUG LOOP*	Water Temperature (98-02 F-Body)	Gray
Oil Pressure (Opt)	CAM PLUG LOOP*	Oil Pressure (98-02 F-Body)	Tan
	*Loop inside loom at sensor		
TAC Module Loop	TAC Module	Throttle Body	Multiple
Chassis Ring Terminals		Chassis Ground Point	Black
Fuse Box			
Ignition (Relay)		12V key on and during cranking	Red
Fuel Pump Relay		Electric Fuel Pump	
PCM Connectors		#12200411 PCM	Red/Blue
ALDL Connector			Multiple



# **2-Position Brake Switch**





Glossary	Description
PCM	Powertrain Control Module
TAC	Throttle Actuator Control
EGR	Exhaust Gas Recirculation
ECT	<b>Engine Coolant Temperature</b>
IAT	Intake Air Temperature
MAP	Manifold Absolute Pressure
MAF	Mass Air Flow
02	Oxygen Sensor
VAT	Vehicle Anti-Theft
ССР	Charcoal Cannister Purghe
DLC	Data Link Connector
TCC	Torque Converter Clutch
VSS	Vehicle Speed Sensor

ltem	GM Part Numbers
PCM	#12200411
MAP	#16212460
TAC Module	#25173339*
ECT	#15326388
ECT (F-Body)	AC Delco #12551708
Oil Pressure (F-Body)	#12562267
Knock Sensor	#10456603
Ignition Coil	#12558948
O2 Sensor Flat	#25312184
O2 Sensor Square	#25161131
MAF 5-Pin	#25168491
Cam Sensor	#12561211
Crank Sensor	#12560228
	* Check Compatibility

Note: Wire colors used are subject to change, but Pin #, circuit and function will not.

$\overline{}$	Wire Color			
1	BLACK	451	Ground	Ground
2	_			
3				
	-			
4	-			
5	_			
6	_			
_				
7	-			
8	_			
9	GREEN	465	Fuel Pump Relay Control [Primary]	Fuse Box - F/P Relay Trigger
10		121		
	WHITE	121	Engine Speed Signal	To 9-Wire Loop
11	_			
12	-			
13	_			
	_			
14	-			
15	RED	225	Generator Turn ON Signal	Alternator Plug
16	_			
_				
17	_			
18	-			
19	_			
		000	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1/00 PL
20	GREEN	822	VSS Low Signal	VSS Plug
21	PURPLE	821	VSS High Signal	VSS Plug
22	_			
23				<del>                                     </del>
24	_			
25	TAN	472	IAT Sensor Signal	IAT Sensor Plug (3-Wire MAF)
26	PURPLE	2121	Ignition Coil 1 Control	LH Ignition Coil Plug
			3	
27	RED	2127	Ignition Coil 7 Control	LH Ignition Coil Plug
28	LT BLUE	2126	Ignition Coil 6 Control	RH Ignition Coil Plug
29	GREEN	2124	Ignition Coil 4 Control	RH Ignition Coil Plug
		£124	ignition con 4 control	TAT Ignition Coll Flug
30	-			
31	YELLOW	492	MAF Sensor Signal	MAF Sensor Plug
32	LT GREEN	432	MAP Sensor Signal	MAP Sensor Plug
33	DK BLUE	473	High Speed Cooling Fan Relay Control	To 9-Wire Loop
34	-			
35	_			
_				
36	-			
37	-			
38	_			
		004	401/ H.D.C	0444.0
39	RED	631	12 Volt Reference Camshaft Position Sensor	CAM Sensor Plug
40	BLACK	451	Ground	Ground
41	_			
41	-			
42	-			
_				
42		1652	Reverse Lock Out Solenoid Control (MANUAL TRANS T56 ONLY)	
42 43 44	-	1652	Reverse Lock Out Solenoid Control (MANUAL TRANS T56 ONLY)	
42 43 44 45	- GRAY			
42 43 44 45 46	-	1652 419	Reverse Lock Out Solenoid Control (MANUAL TRANS T56 ONLY)  MIL Control (CHECK ENGINE LIGHT)	To 9-Wire Loop
42 43 44 45	- GRAY			To 9-Wire Loop
42 43 44 45 46 47	- GRAY			To 9-Wire Loop
42 43 44 45 46 47 48	- GRAY - BROWN -			To 9-Wire Loop
42 43 44 45 46 47 48 49	GRAY BROWN	419	MIL Control (CHECK ENGINE LIGHT)	
42 43 44 45 46 47 48	- GRAY - BROWN -			To 9-Wire Loop  To 9-Wire Loop
42 43 44 45 46 47 48 49	GRAY BROWN	419	MIL Control (CHECK ENGINE LIGHT)	
42 43 44 45 46 47 48 49 50	GRAY - BROWN BLACK	419	MIL Control (CHECK ENGINE LIGHT)	
42 43 44 45 46 47 48 49 50 51	GRAY - BROWN BLACK -	419	MIL Control (CHECK ENGINE LIGHT)	
42 43 44 45 46 47 48 49 50 51 52 53	- GRAY - BROWN BLACK	419	MIL Control (CHECK ENGINE LIGHT)	
42 43 44 45 46 47 48 49 50 51	GRAY - BROWN BLACK -	419	MIL Control (CHECK ENGINE LIGHT)	
42 43 44 45 46 47 48 49 50 51 52 53	- GRAY - BROWN BLACK	419	MIL Control (CHECK ENGINE LIGHT)	
42 43 44 45 46 47 48 49 50 51 52 53 54	- GRAY - BROWN BLACK	419	MIL Control (CHECK ENGINE LIGHT)	
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	- GRAY - BROWN BLACK	817	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K	To 9-Wire Loop
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	GRAY - BROWN BLACK BLACK	419	MIL Control (CHECK ENGINE LIGHT)	
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	- GRAY - BROWN BLACK	817	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K	To 9-Wire Loop
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	GRAY - BROWN BLACK BLACK	817	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K	To 9-Wire Loop
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	- GRAY - BROWN BLACK	419 817 719	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT	To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	- GRAY - BROWN BLACK	419 817 719 2129	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	- GRAY - BROWN BLACK	419 817 719	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT	To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	- GRAY - BROWN BLACK	419 817 719 2129	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	GRAY  GRAY  BROWN  BLACK  -  -  -  -  -  BLACK  -  -  -  BLACK  -  -  BLACK  BLACK  -  BLACK  BLACK  -  BLACK  B	419 817 719 2129	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	- GRAY - BROWN BLACK	419 817 719 2129	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	- GRAY - BROWN	419 817 719 2129	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	- GRAY - BROWN BLACK	419 817 719 2129	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	- GRAY - BROWN	419 817 719 2129	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 60 61 62 63 64 65 66	GRAY GRAY GRAY GRAY GRAY GRAY GRAY GRAY	719 2129 2130	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)	To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 67	- GRAY - BROWN BLACK	719 2129 2130 2128 2122	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 2 Control	To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	- GRAY - BROWN BLACK	719 2129 2130 2128 2122 2125	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 2 Control Ignition Coil 5 Control	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 67	- GRAY - BROWN BLACK	719 2129 2130 2128 2122	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 2 Control	To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug
42 43 44 45 46 47 50 51 52 53 54 55 56 60 61 62 63 64 65 66 67 68 69	- GRAY - BROWN BLACK	719 2129 2130 2128 2122 2125	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 2 Control Ignition Coil 5 Control	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 55 56 57 58 59 60 61 62 63 64 65 66 67 67 70	GRAY  GRAY  BROWN  BLACK  -  BLACK  -  PURPLE  BROWN  BROWN  BROWN  BROWN  BROWN  BROWN  BROWN  COMBAND  COMBAN	719 2129 2130 2128 2122 2125	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 2 Control Ignition Coil 5 Control	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 46 50 51 52 53 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	GRAY  GRAY  BROWN  -  BLACK  -  PURPLE  BROWN  BROWN  BROWN  BROWN  CHAPTE  CH	719 2129 2130 2128 2122 2125 2123	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Low Reference IAT  Ignition Control Low Reference (1,3,5,7)  Ignition Control Low Reference (2,4,6,8)  Ignition Coil 3 Control  Ignition Coil 5 Control  Ignition Coil 3 Control  Ignition Coil 3 Control	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 50 51 55 55 56 57 60 61 62 63 64 65 66 67 68 69 70 71 72	GRAY  GRAY  BROWN  BLACK  -  BLACK  -  PURPLE  BROWN  BROWN  BROWN  BROWN  BROWN  BROWN  BROWN  COMBAND  COMBAN	719 2129 2130 2128 2122 2125	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 2 Control Ignition Coil 5 Control	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 46 50 51 52 53 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	GRAY  GRAY  BROWN  -  BLACK  -  PURPLE  BROWN  BROWN  BROWN  BROWN  CHAPTE  CH	719 2129 2130 2128 2122 2125 2123	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Low Reference IAT  Ignition Control Low Reference (1,3,5,7)  Ignition Control Low Reference (2,4,6,8)  Ignition Coil 3 Control  Ignition Coil 5 Control  Ignition Coil 3 Control  Ignition Coil 3 Control	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 55 56 57 58 60 61 62 63 64 65 66 67 68 69 70 71 72 73	- GRAY - BROWN BLACK	419  817  719  2129 2130  2128 2122 2125 2123  3122	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 9 Control Ignition Coil 5 Control Ignition Coil 5 Control Ignition Coil 3 Control Ignition Coil 3 Control Ignition Coil 3 Control Ignition Coil 3 Control	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 61 62 63 64 65 66 67 68 69 70 71 71 72 73 74	- GRAY - GRAY - HANGE HEAD HEAD HEAD HEAD HEAD HEAD HEAD HEA	419  817  719  2129 2130  2128 2122 2125 2123  3122  3213	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 2 Control Ignition Coil 5 Control Ignition Coil 5 Control Ignition Coil 3 Control HO2S Heater Low Control (2001-02 6.0L and 8.1L Only)  HO2S Heater High Control (2001-02 6.0L and 8.1L Only)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 55 56 57 58 60 61 62 63 64 65 66 67 68 69 70 71 72 73	- GRAY - BROWN BLACK	419  817  719  2129 2130  2128 2122 2125 2123  3122	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 9 Control Ignition Coil 5 Control Ignition Coil 5 Control Ignition Coil 3 Control Ignition Coil 3 Control Ignition Coil 3 Control Ignition Coil 3 Control	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 61 62 63 64 65 66 67 68 69 70 71 71 72 73 74	- GRAY - GRAY - HANGE HEAD HEAD HEAD HEAD HEAD HEAD HEAD HEA	419  817  719  2129 2130  2128 2122 2125 2123  3122  3213	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 2 Control Ignition Coil 5 Control Ignition Coil 5 Control Ignition Coil 3 Control HO2S Heater Low Control (2001-02 6.0L and 8.1L Only)  HO2S Heater High Control (2001-02 6.0L and 8.1L Only)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 53 54 55 56 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	- GRAY - GRAY - HANGE TO THE PROOF TO THE PR	419  817  719  2129 2130  2128 2122 2125 2123  3122  3213	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 2 Control Ignition Coil 5 Control Ignition Coil 5 Control Ignition Coil 3 Control HO2S Heater Low Control (2001-02 6.0L and 8.1L Only)  HO2S Heater High Control (2001-02 6.0L and 8.1L Only)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 56 57 58 59 60 61 62 63 64 65 66 67 67 67 70 71 72 73 74 75 76 77	- GRAY - GRAY - GRAY - GRAY - GRAY - GREEN - G	419  817  719  2129 2130  2128 2122 2125 2123  3122  3213	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 2 Control Ignition Coil 5 Control Ignition Coil 5 Control Ignition Coil 3 Control HO2S Heater Low Control (2001-02 6.0L and 8.1L Only)  HO2S Heater High Control (2001-02 6.0L and 8.1L Only)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 50 51 55 55 56 57 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 77 78	- GRAY - GRAY - HANGE TO THE PROOF TO THE PR	419  817  719  2129 2130  2128 2122 2125 2123  3122  3213	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 2 Control Ignition Coil 5 Control Ignition Coil 5 Control Ignition Coil 3 Control HO2S Heater Low Control (2001-02 6.0L and 8.1L Only)  HO2S Heater High Control (2001-02 6.0L and 8.1L Only)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 50 51 55 55 56 57 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 77 78	- GRAY - GRAY - GRAY - GRAY - GRAY - GREEN - G	419  817  719  2129 2130  2128 2122 2125 2123  3122  3213	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 2 Control Ignition Coil 5 Control Ignition Coil 5 Control Ignition Coil 3 Control HO2S Heater Low Control (2001-02 6.0L and 8.1L Only)  HO2S Heater High Control (2001-02 6.0L and 8.1L Only)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug
42 43 44 45 46 47 48 49 50 51 52 53 56 57 58 59 60 61 62 63 64 65 66 67 67 67 70 71 72 73 74 75 76 77	GRAY  GRAY  BROWN  BLACK	419  817  719  2129 2130  2128 2122 2125 2123  3122  3213	MIL Control (CHECK ENGINE LIGHT)  Vehicle Speed Output Circuit 4K  Low Reference IAT  Ignition Control Low Reference (1,3,5,7) Ignition Control Low Reference (2,4,6,8)  Ignition Coil 8 Control Ignition Coil 2 Control Ignition Coil 5 Control Ignition Coil 5 Control Ignition Coil 3 Control HO2S Heater Low Control (2001-02 6.0L and 8.1L Only)  HO2S Heater High Control (2001-02 6.0L and 8.1L Only)	To 9-Wire Loop  To 9-Wire Loop  IAT Sensor Plug (3-Wire MAF)  LH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  RH Ignition Coil Plug  LH Ignition Coil Plug

Note: Wire colors used are subject to change, but Pin #, circuit and function will not.

Pin	Wire Color	Circuit No.	Function	
1	BLACK	451	Ground	Ground
2	LT BLUE	1867	12 Volt Reference (Crankshaft Postion Sensor)	Crank Sensor Plug
3	TAN	1746	Fuel Injector 3 Control	#3 Injector Plug
4	GREEN	1745	Fuel Injector 2 Control	#2 Injector Plug
5	_			
6	_			
7	-			
8	-			
9	-			
10		4070	Karati Osmani (2) Osmal	Knock Sensor Plug
12	DK BLUE	1876 1869	Knock Sensor [2] Signal Crankshaft Postion Sensor Signal	Crank Sensor Plug
13	DK BLUE	1009	Clarikshalt Fostion Sensor Signal	Clarik Selisor Flug
14	BROWN	1061	UART Serial Data (drive by wire only) TAC Module	TAC12
15	GREEN	774	UART Serial Data (drive by wire only) TAC Module	TAC13
16	_		,	
17	_			
18	_			
19	PINK	439	Ignition 1 Voltage	L/R O2,L/R Coils,1-8 Inj,MAF,etc.
20	ORANGE	340	Battery Positive Voltage	"FUSE 1" Large Red Wire Ring
21	YELLOW	1868	Sensor Low Reference (Crankshaft Postion Sensor)	Crank Sensor Plug
22	-			
23	-			
24	BLACK			
25	-	,	11000	
26	TAN	1667	HO2 Sensor Low Signal [Bank 2 Sensor 1]	RH O2 Sensor Plug
27	BLACK			<del>                                     </del>
28	- TAN	1050	LIO2 Concert ou Cianal IDank 4 Concer 41	LILO2 Canaar Diva
29 30	TAN	1653	HO2 Sensor Low Signal [Bank 1 Sensor 1]	LH O2 Sensor Plug
31				
32				<u> </u>
33	PURPLE	420	TCC Brake Switch Signal	To 9-Wire Loop
34	ORANGE	434	Neutral Safety Switch Signal	PRND P Input - To 9-Wire Loop
35	-	404	reducti dalety dwitch digital	1 KND 1 Input - 10 3-Wile Ecop
36	BLACK	1744	Fuel Injector 1 Control	#1 Injector Plug
37	YELLOW	846	Fuel Injector 6 Control	#6 Injector Plug
38	_		, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , ,
39	-			
40	BLACK	451	Ground	Ground
41	-			
42	GREEN	335	Low Speed Cooling Fan Relay Control	To 9-Wire Loop
43	RED	877	Fuel Injector 7 Control	#7 Injector Plug
44	LT BLUE	844	Fuel Injector 4 Control	#4 Injector Plug
45	-			
46	-			
47 48	- GRAY	440	E Vall Deference (MAD Conser)	MAD Conses Dive
49	GRAT	416	5 Volt Reference (MAP Sensor)	MAP Sensor Plug
50				
51	DK BLUE	496	Knock Sensor [1] Signal	Knock Sensor Plug
52	_		throat denot [1] digital	timeen comeen tag
53	_			
54	ORANGE	407	Sensor Low Reference (MAP Sensor Ground)	MAP Sensor Plug
55	-			
56				
57	ORANGE	340	Battery Positive Voltage	Rear of Fuse Box
58	TAN	1049	ECM/PCM/VCM Class 2 Serial Data (OBDII)	ALDL Connector
59	-			
60	-			21112
61	PINK	632	Sensor Low Reference (Camshaft Position Sensor)	CAM Sensor Plug
62	-			<del> </del>
63 64	BLACK			
65	BLACK			+
66	PURPLE	1666	HO2 Sensor High Signal [Bank 2 Sensor 1]	RH O2 Sensor Plug
67	BLACK	,,,,,		32 concor ring
68				
69	PURPLE	1665	HO2 Sensor High Signal [Bank 1 Sensor 1]	LH O2 Sensor Plug
70	_		0 0 1	
71	-			
72	_			
73	BLACK	633	Camshaft Position Sensor Signal	CAM Sensor Plug
74	YELLOW	410	Engine Coolant Temperature Sensor Signal	ECT Sensor Plug
75	-			
76	WHITE	845	Fuel Injector 5 Control	#5 Injector Plug
77	DK BLUE	878	Fuel Injector 8 Control	#8 Injector Plug
78	_			
79	-			
80	BLACK	407	Sensor Low Reference (Engine Coolant Temperature)	ECT Sensor Plug