

TELORVEK EFI 4.6 Sequential Fuel Injection System (FT-92)

WIRING INSTRUCTIONS

Thank you for purchasing the absolute finest of wiring kits for the 1991-1993 Ford Motor Co. 4.6 fuel injection engine. We have taken considerable time to work out the circuitry so that you, the customer will understand at least some of what this is all about. We ask that you follow our instructions closely. You must use a high pressure in tank fuel pump. Custom installations are available from Tanks Inc. (320-558-6882) and Rock Valley (800-344-1934).

Should you eliminate any sensor, your injection system will not work at its peak and will probably be in some variation of back up mode. There are many factors that will help you get a trouble free start up that you must consider.

NOTE: FORD diagnostic procedures are very detailed, lengthy and impossible to cover in this set of instructions. Purchasing the FORD ENGINE/ EMISSIONS DIAGNOSIS shop manual will help you learn about the engine you installed and guide you through the correct diagnostic procedures Ford recommends. This book is available through your local Ford dealer or Helm Inc. Helm is the distributor for the shop manuals for General Motors and Ford Motor Company. Helm can be contacted at 800-782-4356 or on their web site www.helminc.com

STARTING INSTALLATION

Since there are so many individual circuits to complete, we recommend that you connect them in the order that we prescribe. Disconnect the battery before starting and do not reconnect until instructed.

There will be many connections to the TELORVEK panel so plan the location of the panel in an area with room to work. We suggest mounting the panel in an assessable location, in the trunk, under the seat or under the dash are good. In order to allow for the proper spacing between the computer and the Telorvek panel, plug the connector into the computer (ECM) and mount the panel and computer. For safety, disconnect the ECM connector until finished the installation. A poor installation will result in a poor running car. The number referred to from this point on will be the location on one of the terminal blocks located on the TELORVEK panel.

After all wires are connected to the engine, wire tie them together or use 3/4 inch Zip loom to protect them. This can be done before any connections are made to the panel. Since all wires are marked, running the entire group to the panel at one time is fine. Some terminals on the panel may not be used!

WARNING!

After the kit installation is complete and it is necessary to diagnose a starting or drive ability problem, follow the procedures recommended in the shop manual. All voltage tests must be preformed using a HIGH impedance, digital voltmeter. DO NOT use a test light on this system! DAMAGE WILL BE DONE to the engine computer if a test light is used on this system.

Important! We have supplied three sizes of terminals for your use on the panels itself. The Yellow is for 10-12 gauge wire, Blue for 14-16 gauge wire and red for 18 gauge wire. Instructions in each individual bag will be marked as to which terminal to use.

NOTE S

You will be moving around to different terminals on the TELORVEK panel to make connections. For this reason extra care is needed when making all connections to the panel.

Bag #60. INJECTORS: The injector wiring is made up in two harnesses, one for the left bank of injectors and one for the right bank. Locate the right injector connector with the Red and Tan wires and connect it to cylinder number (1) injector one. Now plug in the rest of the injector connectors (injectors 2, 3, 4) in that half of the harness. In the left injector harness locate the injector connector with the Red and Black wires and connect it to injector number (5). Plug in the rest of the injector connectors (injectors 6, 7, 8) and run all the wires from both haves of the harness to the Telorvek Panel. Using the blue terminals connect the Red wires (INJ 1->1) and (INJ 5->1) to #1. Now connect the remaining eight wires as follows using the red terminals, Tan (INJ 1->23) to #23, White (INJ 2->24) to #24, Brown (INJ 3->25) to #25, Lt Blue (INJ 4->26) to #26, Black (INJ 5->27) to #27, Lt Green (INJ 6->28) to #28, Dk Blue (INJ 7->29) to #29 and Dk Green (INJ 8->30) to #30.

Bag #61. IGNITION COIL: The 4.6 engine has two coil packs, one for the left spark plugs and one for the right spark plugs. The coil packs are mounted to each head in front of the engine. The left coil pack connector has Red, Tan and Lt Blue wires and the right coil pack connector has Red, White and Orange wires. After attaching the connectors to the coils run the wires back to the Telorvek panel. Connect the Red wire (LF IGN COIL->6) and (RT IGN COIL->6) using the blue terminals to #6. Using the red terminals connect the Tan (LF IGN COIL->8) to #8, Lt Blue (LF IGN COIL->9) to #9, White (RT IGN COIL->10) to #10 and the Orange wire (RT IGN COIL->11) to #11.

Bag #62. IGNITION CONTROL MODULE CONNECTION: The ICM requires some of the wires to be shielded from any electrical interference, that is why six of the wires (Pink, Gray, Purple, Dk Blue, Dk Green, Solid Strand) in the connector are wrapped.

Carefully uncoil the harness and plug it into the ICM then run all the wires to the Telorvek panel. Remove the tape and shielding material back only as far as it is necessary for the length of the wire to be cut and allowing enough wire to make the connections on the panel. In the shielded harness there is a solid strand wire with no insulation, install a blue terminal on it and connect it to #22. After the connection is made wrap the exposed wire from the shielded harness to #22 with electrical tape. Using red terminals the other five wires in the shielded harness are connected as follows, Pink (ICM 3->12) to #12, Gray (ICM 1->13) to #13, Purple (ICM 7->14) to #14, Dk Blue (ICM 5->15) to #15 and the Dk Green (ICM 4->16) to #16.

Connect the seven remaining wires running from the ICM connector as follows: Red (ICM 6->4) to #4, Yellow (ICM 2->7) to #7, Tan (ICM 11->8) to #8, Lt Blue (ICM 12->9) to #9, White (ICM 8->10) to #10, Orange (ICM 9->11) to #11 and Black (ICM 10->19) to #19.

If desired a tach can be wired into the system by connecting the Yellow wire (7->TACH) to #7 on the panel and run it to the tach.

WARNING!!!

The distributorless ignition system (DIS) on this engine is a high energy system operating in a dangerous voltage range which could prove to be fatal if exposed terminals or live parts are contacted. Use extreme caution when working on the vehicle with the ignition on or the engine running.

Bag #63 CRANK POSITION SENSOR (CPS): requires the wires to be shielded from any electrical interference.

Carefully uncoil the harness and plug it into the CPS located on the right front of the engine. Run the wires to the Telorvek panel. Remove the tape and shielding material back only as far as it is necessary for the length of the wire to be cut and allowing enough wire to make the connections on the panel. In the shielded harness there is a solid strand wire with no insulation, install a blue terminal on it and connect it to #22. After the connection is made wrap the exposed wire from the shielded harness to #22 with electrical tape. Connect the remaining two wires as follows: Dk Blue (CPS->15) to #15 and the Dk Green wire (CPS->16 to #16.

Bag #64. MASS AIR FLOW SENSOR: Attach the connector to the M.A.F sensor located in the air intake tube between the intake manifold and air cleaner. Using a blue terminal, connect the Red wire (MAF->4) to **#4**. Now using the red terminals, connect the Black (MAF->21) to **#21**, Tan (MAF->18) to **#18** and the Lt Blue (MAF->17) to **#17**.

Bag #65. CYLINDER ID SENSOR: requires the wires to be shielded from any electrical interference.

Carefully uncoil the harness and plug it into the sensor located on the left front of the engine. Run the wires to the Telorvek panel. Remove the tape and shielding material back only as far as it is necessary for the length of the wire to be cut and allowing enough wire to make the connections on the panel. In the shielded harness there is a solid strand wire with no insulation, install a blue terminal on it and connect it to #19. After the connection is made wrap the exposed wire from the shielded harness to #19 with electrical tape. Connect the remaining two wires as follows: Dk Blue (CYL ID->40) to #40 and the Gray (CYL ID->57) to #57.

Bag #66.ENGINE COOLANT TEMPERATURE SENSOR (ECT): After attaching the plug to the sensor located on the lower front of the engine, near the alternator run the two wires to the panel. Connect them using the red terminals, Lt Green wire (ECT->35) to #35 and the Gray wire (ECT->56) to #56.

Bag #67. THROTTLE POSITION SENSOR (TPS): Plug into the sensor located in the rear of the engine on the throttle body and run the wires back to the panel. Using the red terminals, connect the Brown (TPS->37) to #37, White (TPS->36) to #36 and Gray (TPS->56) to #56.

Bag #68. EXHAUST GAS RECIRCULATION VALVE POSITION SENSOR & EGR SOLENOID: Plug in the connector to the EGRVP located on the rear of the engine. Using red terminals, connect the Lt Green wire (EGRVP->38) to #38, Brown wire (EGRVP->37) to #37 and the Gray (EGRVP->57) to #57.

Plug the connector into the EGR solenoid located on the rear of the engine. Using a the red terminals connect the Red wire (EGR SOL->2) to #2 and the Brown wire (EGR SOL->39) to #39.

Bag #69. INTAKE AIR TEMPERATURE SENSOR (IAT): Plug the connector onto the IAT sensor located in the air intake tube. Run the wires to the Telorvek Panel and using the red terminals connect the Yellow wire (IAT->41) to **#41** and the Gray wire (IAT->58) to **#58**.

Bag #70. FUEL PUMP RELAY & INERTIA SWITCH: The EEC module controls the fuel pump relay. Turning the ignition switch to the run position and not starting the engine, the EEC will cycle the pump for 2-4 seconds. Once the engine starts to crank, the EEC will then turn the pump on. NOTE: You must install a fuel pump relay into the housing or the pump will not operate. Use the Ford part Ford Part number #F8PZ-14N135-AA or Motorcraft DY-864 fuel pump relay.

Mount the relay near the Telorvek panel. Connect the Red wire (FP RELAY->31) to #31, Light Blue (FP RELAY->48) to #48, Tan (FP RELAY->33) to #33 and the Yellow (FP RELAY->32) to #32.

INERTIA SWITCH: The inertia switch is designed to disconnect the ignition voltage from the fuel pump in the event of a accident. This obviously kills the engine to prevent fire.

Mount the inertia switch in the trunk and run the wires to the Telorvek panel. Connect the Tan wire (INERTIA->33) to #33 and the other Tan wire (INERTIA SW->FP) to the positive terminal on the fuel pump. A wire must be connected to the negative terminal on the pump and run to a good ground. Use Ford inertia switch part #F2AZ-9341-A.

Bag #71. OXYGEN SENSOR (2): This area of the vehicle is hot so keep the wires away from the exhaust. Two sensors are required per engine. NOTE: If you are using headers, mount the O2 sensors in the collectors. Plug in the connectors into the O2 sensors following the wording printed on the wires and run the wires to the Telorvek panel. Using the blue terminals connect the Orange wires (LEFT O2->5) and (RIGHT O2->5) to #5, Black Wires (LEFT O2->20) and (RIGHT O2->20 to #20. Using the red terminals connect the Gray wires (LEFT O2->59) and (RIGHT O2->59) to #59. Connect the Dark Blue (LEFT O2->42) to #42 and the Light Blue (RIGHT O2->43) to #43.

Bag #72. IDLE SPEED CONTROL: The ISC is located on the rear of the engine in the throttle body. Plug in the connector and run the wires back to the panel. Using the red terminals, connect the White wire (ISC->51) to **#51** and the Red wire (IAC->3) to **#3**.

Bag #73. DATA LINK CONNECTOR: Mount the connector inside the vehicle under the dash and run the wires to the Telorvek Panel. Using the red terminals connect the Tan (VIP 1->47) to **#47**, Gray (VIP 1->58) to **#58**, Pink (VIP 1->46) to **#46**, Light Green (VIP 1->49) to **#49**, Light Blue (VIP 1->48) to **#48** and the White (VIP 2->50) to **#50**.

The remaining two wires are for the service engine soon (SES) light. You must use a wire un-grounded light.

S.E.S LT: Connect the Lt Green wire (49->SES LT) to **#49** on the Telorvek Panel and run it to a dash indicator light and connect it to one of the wires running from the light. The Red wire (3->SES LT) connects to **#3** on the panel and run to the other wire running from the light. This light is not required as the yellow light on top of the Telorvek Panel has the same function.

Bag #74 OCTANE ADJUST: The ECM measures voltage across the octane adjust connector and uses this information to modify ignition spark advance. Leave this connector plugged together but if you experience detonation while driving, un-plug this connector or use higher octane gasoline. Using the red terminals connect the Gray (OCTA ADJ->60) to **#60** and the Dk Green (OCTA ADJ->52) to **#52**.

Bag #75. VEHICLE SPEED SENSOR: Install the connector onto the speed sensor located in the speedometer assembly on the transmission and run the wires back to the Telorvek panel. Using the red terminals, connect the Black wire (VEH SPD SEN->21) to #21 and the Dark Green wire (VEH SPD SEN->45) to #45.

Electronic speedometers can be connected to terminal **#45** to pick up the VSS signal. This is a standard Ford 8000 pulse per mile signal.

Bag #76. CANISTER PURGE SOLENOID: Plug the connector into the Canister Purge Solenoid. Using the using red terminals, connect the Red wire (CAN PURGE->2) to **#2** and the Gray wire (CAN PURGE->44) to **#44**.

Bag #77. PARK/NEUTRAL RELAY: This system was developed to allow a regular park / neutral switch to tell the computer when the vehicle is in park, neutral or drive. Since the signals are different, we have made this small circuit that will connect to a stock Ford neutral switch or splice to just about any two wire neutral switch. The signal input controls the idle air control (IAC), vehicle speed sensor diagnostics (VSS) and exhaust gas recirculation (EGR).

The regular car wiring that normally runs to the neutral safety now connects to the P/N relay kit. If you are installing this relay into a vehicle that has a Ron Francis Wire Works wiring kit, in that kit wires were supplied to be connected to a neutral safety switch. These wires will plug directly into the 12 gauge purple and blue wires running from the relay and will be a color for color match. Now connect the 18 gauge blue wire running from the relay to the white/pink wire running from the neutral safety switch. Connect the black wire to the red/blue wire running from the neutral safety switch and connect it to a good ground. Connect the White wire to #53 on the Telorvek Panel.

NOTE: Using any other standard neutral switch requires only removing the plug and splicing. If the connector on the wires doesn't fit your application then remove it and connect the wires to the switch.

- ✓ The 12 gauge blue wire in the plug must be connected to the 12 volt supply from the ignition switch. This wire becomes hot (12 Volts) when you turn the key to crank.
- ✓ The 12 gauge purple wire is connected to the wire that runs to the starter solenoid.
- ✓ The 18 gauge blue wire connects to one of the terminals on the neutral safety switch.
- ✓ The 18 gauge black wire connects to the other terminal on the neutral safety switch and run to a good ground.
- ✓ Run the White wire to #53 on the panel. The relay used in this kit is a GM (part #14100455).

FINISHING UP

Connect the large pre-wired **orange** wire to the ignition circuit of your ignition switch. This is an ignition feed that is controlled by the ignition switch. This is not an accessory feed and must remain hot even when the engine is cranking.

Connect the large pre-wired **red** battery feed wire to a battery feed. This is a battery feed that must remain hot even with the key off. Make sure this is a good connection. If you have a Master Disconnect switch, install this wire on the battery side of the switch so it will remain hot with the Disconnect off.

The **black** ground wire from the TELORVEK Panel runs direct to the battery. Run the battery ground directly to the engine not the frame first. This includes rear mounted batteries.

STARTING THE ENGINE

You have now made all of the connections necessary to TRY to start your car. If you try now, you will be disappointed since you did not hook up the battery. You can do so now.

Priming the Fuel System

The fuel system can be primed by removing the Tan wire (INERTIA->33) from terminal #33 and applying 12 volts to this wire. After the fuel system is primed, be sure to re-install the Tan wire back onto terminal #33.

CARE SHOULD BE TAKEN TO AVOID ANY SPILLAGE OR INJURY WHILE FOLLOWING THIS PROCEDURE.

We're trying...

The Detail Zone has made every effort to assure a quality product and can assure you that this system works well in your application. Most of the 'problem' calls we have had to date are basic trouble shooting questions which have nothing to do with the TELORVEK system we sold you.

We are committed to offering the most user friendly wiring systems available and support this with many years experience in the wiring and fuel injection fields. Please be certain that all connections are correct and tests run before calling. Your unit can be tested at any Ford Dealership with no difficulty.

USING THE CHECK ENGINE LIGHT

The check engine light performs just the same as it would in any newer car, when the key is turned on (engine not running) the light will stay on until the engine starts.

When the check engine light comes on during engine operation, it is an indication of a fault in the system. It will be necessary to have the computer perform a self test diagnostic procedure. The self test is divided into three specialized tests:

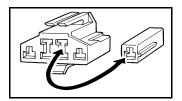
KEY ON ENGINE OFF SELF TEST (KOEO): For this test the fault must be present at the time of testing. For intermittent, refer to continuous memory codes.

ENGINE RUNNING ("R") SELF TEST: The sensors are checked under operating conditions and at normal operating temperatures.

CONTINUOUS ("C") MEMORY CODES: These codes are issued as a result of information stored while the vehicle was in normal operation.

READING THE CHECK ENGINE LIGHT: A service code is reported by a flash of the check engine light. All service codes are three digit numbers, such as 112. The light will display one flash, then, after a two second pause, the light will flash twelve times. All self test codes (if any) will be displayed and then a delay of six seconds, a single half second separator flash and another six second delay and then the continuous memory codes will be flashed.

If the light remains on after the engine is running then follow the procedures below to have the check engine light flash trouble codes.Locate the V.I.P connector & connect a jumper wire between the terminals shown in the drawing.



Trouble Code Chart

Listed below is a trouble code chart that pertains to all models of Ford vehicles. Some of the codes listed below DO NOT pertain to your application.

ECM CODE	CONDITIONS KEY: O= Key On Engine Off R= Engine Running C= Continuous Memory		<u>IS</u>	Definition
111	О	O R C		System Pass
112	О		С	Intake Air Temp sensor circuit below minimum voltage
113	О	C		Intake Air Temp sensor circuit above maximum voltage
114	О	R		Intake Air Temp higher or lower than expected
116	О	R		Engine Coolant temp higher or lower than expected
117	ОС		С	Engine Coolant temp sensor circuit below minimum voltage

ECM CODE	CONDITIONS KEY: O= Key On Engine Off R= Engine Running C= Continuous Memory		<u>IS</u>	Definition
118	О		С	Engine Coolant temp sensor circuit above maximum voltage
121	0	R	С	Closed throttle voltage higher or lower than expected
				Indicates throttle position voltage inconsistent with the MAF sensor
122	О		С	Throttle position sensor circuit below minimum voltage
123	О		С	Throttle position sensor circuit above maximum voltage
124			С	Throttle position sensor voltage higher than expected
125			С	Throttle position sensor voltage lower than expected
126	О	R	С	MAP / BARO sensor higher or lower than expected
128		R		MAP sensor vacuum hose damaged or disconnected
129		R		Insufficient MAP / Mass Air Flow change during dynamic response test
136		R		Lack of heated oxygen sensor switch during KOER, indicates lean (Bank #2)
137		R		Lack of heated oxygen sensor switch during KOER, indicates rich (Bank #2)
139			C	No heated oxygen sensor switches detected (Bank #2)
144			C No heated oxygen sensor switches detected (Bank #1)	
157			C	Mass Air Flow sensor circuit below minimum voltage
158	О		C	Mass Air Flow sensor circuit above maximum voltage
159	О	R		Mass Air Flow higher or lower than expected
167		R		Insufficient throttle position change during dynamic response test
171			C	Fuel system at adaptive limits, heated O2 sensor unable to switch (Bank #1)
172		R	C	Lack of heated O2 switches, indicates lean (Bank #1)
173		R	C	Lack of heated O2 switches, indicates rich (Bank #1)
175			С	Fuel system at adaptive limits, heated O2 sensor unable to switch (Bank #2)
176			С	Lack of heated O2 switches, indicates lean (Bank #2)
177			С	Lack of heated O2 switches, indicates rich (Bank #2)
179			С	Fuel system at lean adaptive limit at part throttle, system rich (Bank #1)
181			С	Fuel system at lean adaptive limit at part throttle, system lean (Bank #1)
184			С	Mass Air Flow higher than expected

ECM CODE			IS	Definition
185			С	Mass Air Flow lower than expected
186			С	Injector pulsewidth higher than expected
187			С	Injector pulsewidth lower than expected
188			С	Fuel system at lean adaptive limit at part throttle, system rich (Bank #2)
189			С	Fuel system at rich adaptive limit at part throttle, system lean (Bank #2)
193			С	Flexible fuel sensor circuit failure
211			С	Profile ignition pick up circuit failure
212			С	Loss off ignition diagnostic monitor input to PCM/Spout circuit grounded
213		R		Spout circuit open
214			С	Cylinder identification circuit failure
215			С	PCM detected coil #1 primary circuit failure
216			С	PCM detected coil #2 primary circuit failure
217			С	PCM detected coil #3 primary circuit failure
218		С		Loss of ignition diagnostic monitor signal left side
219			С	Spark timing defaulted to 10 degrees - Spout circuit open
221			С	Spark timing error
222			С	Loss of ignition diagnostic monitor signal right side
223			С	Loss of dual plug inhibit control
224			С	PCM detected coil 1,2,3 or 4 primary circuit failure
225		R		Knock not sensed during dynamic response test
226	О			Ignition diagnostic module signal not received
232			С	PCM detected coil 1,2,3 or 4 primary circuit failure
238			С	PCM detected coil 4 primary circuit failure
241			С	ICM to PCM pulse width transmission error
244			С	CID circuit fault present when cylinder balance test requested
311		R		Air system inoperative (Bank #1)
312		R		Air system misdirected
313		R		Air system not bypassed
314		R		Air system inoperative (Bank #2)
326		R	С	EGR circuit voltage lower than expected

ECM CODE	CONDITIONS KEY: O= Key On Engine Off R= Engine Running C= Continuous Memory		<u>IS</u>	Definition
327	0	R	С	EGR circuit below minimum voltage
328	О	R	С	EGR closed valve voltage lower than expected
332		R	С	Insufficient EGR flow detected
334	О	R	С	EGR closed valve voltage higher than expected
335	О			EGR sensor voltage higher or lower than expected
336		R	С	Exhaust pressure high / EGR circuit voltage higher than expected
337	О	R	С	EGR circuit above maximum voltage
338			С	Engine coolant temperature lower than expected (thermostat test)
339			С	Engine coolant temperature higher than expected (thermostat test)
341	О			Octane adjust service pin open
411		R		Cannot control RPM during KOER low RPM check
412		R		Cannot control RPM during KOER high RPM check
415	О	R		Idle air control system at maximum adaptive lower limit
416	О	R		Idle air control system at upper adaptive learning limit
452			С	Insufficient input from vehicle speed sensor
511	О			PCM read only memory test failure
512			С	PCM keep alive memory test failure
513			С	PCM internal voltage failure
519	О			Power steering pressure switch circuit open
521			С	Power steering pressure switch circuit did not change states during KOER
522	О			Vehicle not in park or neutral during KOEO test
524	О		С	Low speed fuel pump circuit open (battery to PCM)
525	О			Vehicle was either in gear or A/C was on during self test
527	О			Park / neutral position switch circuit open or A/C on during self test
529			С	Data communication link or PCM circuit failure
532			С	Cluster control assembly circuit failure
533			C	Data communication link or electronic instrument cluster circuit failure
536		R	С	Brake on / off circuit failure / not actuated during KOER test

ECM CODE			<u>IS</u>	Definition	
538		R		Insufficient RPM change during KOER dynamic response test	
539	О			A/C on during self test	
542	О		С	Fuel pump secondary circuit failure	
543	О		С	Fuel pump secondary circuit failure	
551	О			Idle air control circuit failure	
552	О			Secondary air injection bypass circuit failure	
553	О			Secondary air injection diverter circuit failure	
554	О			Fuel pressure regulator control circuit failure	
556	О		С	Fuel pump relay primary circuit failure	
557	О		С	Low speed fuel pump primary circuit failure	
558	О			EGR vacuum regulator circuit failure	
559	О			A/C on relay circuit failure	
563	О			High speed fan control circuit failure	
564	О			Fan control circuit failure	
565	О			Canister Purge circuit failure	
566	О		3-4 shift solenoid circuit failure		
578	О	R	A/C pressure sensor circuit shorted (VCRM)		
579	О	R		Insufficient A/C pressure change (VCRM)	
581	О	R		Power to fan circuit over current (VCRM)	
582	О	R		Fan circuit open (VCRM)	
583	О	R		Power to fuel pump over current (VCRM)	
584	О	R		Power ground circuit open (pin #1) (VCRM)	
585	О	R		Power to A/C clutch over current (VCRM)	
586	О	R		A/C clutch circuit open (VCRM)	
587	О	R	С	Variable control relay module communication failure	
617			С	1-2 shift error	
618			С	2-3 shift error	
619			С	3-4 shift error	
621	О			Shift solenoid 1 circuit failure	
622	О			Shift solenoid 2 circuit failure	
624	О	С		Electronic pressure control circuit failure	
625	О			Electronic pressure control driver open in PCM	

ECM CODE	O= Key On R= Engine	ONDITION KEY: Engine Off Running lous Memory	IS	Definition
626	О			Coast clutch solenoid circuit failure
627	О		С	Torque converter clutch solenoid circuit failure
628	О		С	Excessive converter clutch slippage
629	О			Torque converter clutch solenoid circuit failure
631	О			Transmission control indicator lamp circuit failure
632		R		Transmission control switch circuit did not change states during KOER test
634			С	Manual lever position switch voltage higher or lower than expected
636	О	R		Transmission oil temp higher or lower than expected
637	О		С	Transmission oil temp sensor circuit above maximum voltage (-40 F indicated circuit open)
638	О		С	Transmission oil temp sensor circuit below minimum voltage (-290 F indicated circuit shorted)
639		R	С	Insufficient input from transmission speed sensor
641	О			Shift solenoid 3 circuit failure
643	О		С	Torque converter clutch circuit failure
645			С	Incorrect gear ratio obtained for first gear
646			С	Incorrect gear ratio obtained for second gear
647			С	Incorrect gear ratio obtained for third gear
648			С	Incorrect gear ratio obtained for fourth gear
649			С	Electronic pressure control higher or lower than expected
651			С	Electronic pressure control circuit failure
652	О			Torque converter clutch solenoid circuit failure
654	О			Manual lever position sensor not indicating park
656			С	Torque converter clutch continuous slip error
657			С	Transmission over temperature condition occurred
998			С	Hard fault present (FMEM mode)

Breakout Box Circuit Diagnosis

The Telorvek panel can be used as a BREAKOUT BOX for testing circuits running to and from the EEC Processor. Listed below is the Ford circuit number, circuit description, E.E.C processor pin number, Telorvek panel number the circuit runs to, Ford wire color and the color of wire we used. Following the diagnostic procedures that can be found in the ENGINE / EMISSIONS DIAGNOSIS SHOP MANUAL that can be purchased at your local Ford dealer all trouble codes can be diagnosed.

1	Circuit	Description	EEC pin# Panel #	F	ord Color	TDZ Color
	361	Ign, Lf/Rt Injectors		1	Red	Red
Section	361			2	Red	Red
150 150	361			3	Red	Red
1	361		37,57	4	Red	Red
11	361	Ign, LFT O2,RT O2		5	Red	Red
1.	361	Ign, Coils		6	Red	Red
Section Fig. Coll. CM Section Fig. Section CM Section Se	11	ICM 2	4	7	Tan/Yellow	Yellow
10	97	LF ign coil,ICM 11		8	Tan/Lt Green	Tan
1		LF ign coil,ICM 12		9	Tan/Lt Blue	Lt Blue
929 ICM 3 36 12 Pink	95	RT ign coil, ICM 8		10		White
1955 ICM 1	96	RT ign coil, ICM 9			Tan/Orange	Orange
259	929	ICM 3	36	12	Pink	Pink
349	395	ICM 1	56	13	Gray/Orange	Gray
16			16			
OFF	349	ICM 5,CKP Sensor		15	Dk Blue	Dk Blue
968 MAF 9 18 Tam/LT Blue Tam 570 ICM 10,CID Shield 19 Black/White Black 570 LF & RT O2 40,60 20 Black/White Black 570 MAF,VSS 6,20 21 Black/White Black 557 More, CRK POS Shield 22 Black Solid 555 Injector 1 58 23 Tan Tan 556 Injector 3 39 25 Brown/LBlue Brown/LBlue 557 Injector 4 35 26 Brown/LBlue LI Blue 559 Injector 6 12 28 LI Green/Orange LI Green 561 Injector 7 13 29 Tan/Red Dk Blue 562 Injector 7 13 29 Tan/Red Dk Blue 561 Injector 7 13 29 Tan/Red Dk Blue 562 Injector 8 14 30 LI Blue Dk Green		ICM 4,CKP Sensor			Gray	
STO					Lt Blue/Red	Lt Blue
From LF & RT O2			9			
MAF, VSS		ICM 10,CID Shield			Black/White	
AS		LF & RT O2	,		Black/White	
555			6,20			
556 Injector 2 59 24 White White 557 Injector 3 39 25 Brown/LBIue LI Blue 558 Injector 4 35 26 Brown/LBIue LI Blue 559 Injector 5 15 27 Tan/Black Black 560 Injector 6 12 28 LI Green/Orange LI Green 561 Injector 7 13 29 Tan/Red Dk Blue 562 Injector 8 14 30 LI Blue Dk Green 361 Ign, F/P Relay 1 32 Yellow Yellow 37 Batt Feed, F/P Relay 1 32 Yellow Yellow 239 F/P Relay, Incrita Sw 8 33 Dk Green/Yellow Tan 354 ECT Sensor 7 35 LI Green/Red LI Green 355 TPS 47 36 Gray/White White 351 TPS,EGRVP 26 37 Brown		ICM, CRK POS Shield				

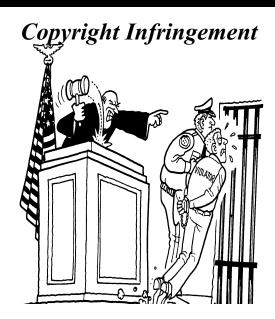
559 Injector 5 15 27 Tan/Black Black 560 Injector 6 12 28 Lt Green/Orange Lt Green 561 Injector 7 13 29 Tan/Red Dk Blue 562 Injector 8 14 30 Lt Blue Dk Green 361 Ign, F/P Relay 1 32 Yellow Yellow 37 Batt Feed, F/P Relay 1 32 Yellow Yellow 239 F/P Relay, Inertia Sw 8 33 Dk Green/Yellow Tan 73 A/C Cut out Relay 54 34 Orange/Lt Blue		•				
Description		•				
561 Injector 7 13 29 Tan/Red Dk Blue 562 Injector 8 14 30 Lt Blue Dk Green 361 Ign, F/P Relay 31 Red Red 37 Batt Feed, F/P Relay 1 32 Yellow Yellow 239 F/P Relay, Inertia Sw 8 33 Dk Green/Yellow Tan 73 A/C Cut out Relay 54 34 Orange/Lt Blue		2				
562 Injector 8 14 30 Lt Blue Dk Green 361 Ign, F/P Relay 31 Red Red 37 Batt Feed, F/P Relay 1 32 Yellow Yellow 239 F/P Relay, Inertia Sw 8 33 Dk Green/Yellow Tan 73 AC Cut out Relay 54 34 Orange/Lt Blue 354 ECT Sensor 7 35 Lt Green/Red Lt Green 355 TPS 47 36 Gray/White White 351 TPS,EGRVP 26 37 Brown/White Brown 352 EGRVP 27 38 Brown/Pink Brown 360 EGR 33 39 Brown/Pink Brown 795 CID 24 40 Dk Green Dk Blue 74 TAT 25 41 Lt Green/Pink Yellow 94 LF O2 43 42 Red/Black Dk Blue <tr< td=""><td></td><td></td><td></td><td></td><td>2</td><td></td></tr<>					2	
361		•				
Batt Feed, FP Relay	562	Injector 8	14	30	Lt Blue	Dk Green
239 F/P Relay, Inertia Sw 8 33 Dk Green/Yellow Tan 73 A/C Cut out Relay 54 34 Orange/Lt Blue 354 ECT Sensor 7 35 Lt Green/Red Lt Green 355 TPS 47 36 Gray/White White 351 TPS,EGRVP 26 37 Brown/White Brown 352 EGRVP 27 38 Brown/Pink Brown 360 EGR 33 39 Brown/Pink Brown 795 CID 24 40 Dk Green Dk Blue 743 IAT 25 41 Lt Green/Pink Yellow 94 LF O2 43 42 Red/Black Dk Blue 101 Canister Purge 11 44 Gray/Lt Blue Lt Blue 101 Canister Purge 11 44 Gray/Yellow Gray 150 VSS 3 45 Gray/Yellow G	361	Ign, F/P Relay		31	Red	Red
73 A/C Cut out Relay 54 34 Orange/Lt Blue 354 ECT Sensor 7 35 Lt Green/Red Lt Green 355 TPS 47 36 Gray/White White 351 TPS,EGRVP 26 37 Brown/White Brown 352 EGRVP 27 38 Brown/Lt Green Lt Green 360 EGR 33 39 Brown/Pink Brown 795 CID 24 40 Dk Green Dk Blue 743 LAT 25 41 Lt Green/Pink Yellow 94 LF O2 43 42 Red/Black Dk Blue 74 RT O2 44 43 Gray/Lt Blue Lt Blue 101 Canister Purge 11 44 Gray/Yellow Gray 150 VSS 3 45 Gray/Black Dk Green 915 VIP 1 19 46 Pink/Lt Blue Pink <td>37</td> <td>Batt Feed, F/P Relay</td> <td>1</td> <td>32</td> <td>Yellow</td> <td>Yellow</td>	37	Batt Feed, F/P Relay	1	32	Yellow	Yellow
354 ECT Sensor 7 35 Lt Green/Red Lt Green 355 TPS 47 36 Gray/White White 351 TPS,EGRVP 26 37 Brown/White Brown 352 EGRVP 27 38 Brown/Lt Green Lt Green 360 EGR 33 39 Brown/Pink Brown 795 CID 24 40 Dk Green Dk Blue 743 LAT 25 41 Lt Green/Pink Yellow 94 LF O2 43 42 Red/Black Dk Blue 74 RT O2 44 43 Gray/Lt Blue Lt Blue 101 Canister Purge 11 44 Gray/Yellow Gray 150 VSS 3 45 Gray/Black Dk Green 915 VIP 1 19 46 Pink/Lt Blue Pink 914 VIP 1 18 47 Tan/Orange Tan	239	F/P Relay, Inertia Sw	8	33	Dk Green/Yellow	Tan
355 TPS 47 36 Gray/White White 351 TPS,EGRVP 26 37 Brown/White Brown 352 EGRVP 27 38 Brown/Lt Green Lt Green 360 EGR 33 39 Brown/Pink Brown 795 CID 24 40 Dk Green Dk Blue 743 IAT 25 41 Lt Green/Pink Yellow 94 LF O2 43 42 Red/Black Dk Blue 74 RT O2 44 43 Gray/Lt Blue Lt Blue 101 Canister Purge 11 44 Gray/Yellow Gray 150 VSS 3 45 Gray/Black Dk Green 915 VIP 1 19 46 Pink/Lt Blue Pink 914 VIP 1 18 47 Tan/Orange Tan 926 VIP 1,FP Relay 22 48 Lt Blue/Orange Lt Blue	73	A/C Cut out Relay	54	34	Orange/Lt Blue	
351 TPS,EGRVP 26 37 Brown/White Brown 352 EGR VP 27 38 Brown/Lt Green Lt Green 360 EGR 33 39 Brown/Pink Brown 795 CID 24 40 Dk Green Dk Blue 743 IAT 25 41 Lt Green/Pink Yellow 94 LF O2 43 42 Red/Black Dk Blue 74 RT O2 44 43 Gray/Lt Blue Lt Blue 101 Canister Purge 11 44 Gray/Pellow Gray 150 VSS 3 45 Gray/Black Dk Green 915 VIP 1 19 46 Pink/Lt Blue Pink 914 VIP 1 18 47 Tan/Orange Tan 926 VIP 1,FP Relay 22 48 Lt Blue/Orange Lt Blue 201 S.E.S L,VIP 1 17 49 Tan/Red Lt Green <td>354</td> <td>ECT Sensor</td> <td>7</td> <td>35</td> <td>Lt Green/Red</td> <td>Lt Green</td>	354	ECT Sensor	7	35	Lt Green/Red	Lt Green
352 EGRVP 27 38 Brown/Lt Green Lt Green 360 EGR 33 39 Brown/Pink Brown 795 CID 24 40 Dk Green Dk Blue 743 IAT 25 41 Lt Green/Pink Yellow 94 LF O2 43 42 Red/Black Dk Blue 74 RT O2 44 43 Gray/Lt Blue Lt Blue 101 Canister Purge 11 44 Gray/Yellow Gray 150 VSS 3 45 Gray/Black Dk Green 915 VIP 1 19 46 Pink/Lt Blue Pink 914 VIP 1 18 47 Tan/Orange Tan 926 VIP 1,FP Relay 22 48 Lt Blue/Orange Lt Blue 201 S.E.S Lt,VIP 1 17 49 Tan/Red Lt Green 209 VIP 2 48 50 White/Lt Blue White	355	TPS	47	36	Gray/White	White
360 EGR 33 39 Brown/Pink Brown 795 CID 24 40 Dk Green Dk Blue 743 IAT 25 41 Lt Green/Pink Yellow 94 LF O2 43 42 Red/Black Dk Blue 74 RT O2 44 43 Gray/Lt Blue Lt Blue 101 Canister Purge 11 44 Gray/Yellow Gray 150 VSS 3 45 Gray/Black Dk Green 915 VIP 1 19 46 Pink/Lt Blue Pink 914 VIP 1 18 47 Tan/Orange Tan 926 VIP 1,FP Relay 22 48 Lt Blue/Orange Lt Blue 201 S.E.S Lt,VIP 1 17 49 Tan/Red Lt Green 209 VIP 2 48 50 White/Pink White 240 Octane Adjust 29 52 White/Ett Blue White <td>351</td> <td>TPS,EGRVP</td> <td>26</td> <td>37</td> <td>Brown/White</td> <td>Brown</td>	351	TPS,EGRVP	26	37	Brown/White	Brown
795 CID 24 40 Dk Green Dk Blue 743 IAT 25 41 Lt Green/Pink Yellow 94 LF O2 43 42 Red/Black Dk Blue 74 RT O2 44 43 Gray/Lt Blue Lt Blue 101 Canister Purge 11 44 Gray/Yellow Gray 150 VSS 3 45 Gray/Black Dk Green 915 VIP 1 19 46 Pink/Lt Blue Pink 914 VIP 1 18 47 Tan/Orange Tan 926 VIP 1,FP Relay 22 48 Lt Blue/Orange Lt Blue 201 S.E.S Lt,VIP 1 17 49 Tan/Red Lt Green 209 VIP 2 48 50 White/Pink White 264 IAC 21 51 White/Pink White 240 Octane Adjust 29 52 White/Pink White	352	EGRVP	27	38	Brown/Lt Green	Lt Green
743 IAT 25 41 Lt Green/Pink Yellow 94 LF O2 43 42 Red/Black Dk Blue 74 RT O2 44 43 Gray/Lt Blue Lt Blue 101 Canister Purge 11 44 Gray/Yellow Gray 150 VSS 3 45 Gray/Black Dk Green 915 VIP 1 19 46 Pink/Lt Blue Pink 914 VIP 1 18 47 Tan/Orange Tan 926 VIP 1,FP Relay 22 48 Lt Blue/Orange Lt Blue 201 S.E.S Lt,VIP 1 17 49 Tan/Red Lt Green 209 VIP 2 48 50 White/Pink White 264 IAC 21 51 White/Red Dk Green 33 MLPS 30 53 White/Pink White 240 Octane Adjust 29 52 White/Pink White	360	EGR	33	39	Brown/Pink	Brown
94 LF O2 43 42 Red/Black Dk Blue 74 RT O2 44 43 Gray/Lt Blue Lt Blue 101 Canister Purge 11 44 Gray/Yellow Gray 150 VSS 3 45 Gray/Black Dk Green 915 VIP 1 19 46 Pink/Lt Blue Pink 914 VIP 1 18 47 Tan/Orange Tan 926 VIP 1,FP Relay 22 48 Lt Blue/Orange Lt Blue 201 S.E.S Lt,VIP 1 17 49 Tan/Red Lt Green 209 VIP 2 48 50 White/Pink White 264 IAC 21 51 White/Lt Blue White 240 Octane Adjust 29 52 White/Pink White 33 MLPS 30 53 White/Pink White 737 Check Temp Ind. 53 54 White/Lt Blue White <td>795</td> <td>CID</td> <td>24</td> <td>40</td> <td>Dk Green</td> <td>Dk Blue</td>	795	CID	24	40	Dk Green	Dk Blue
74 RT O2 44 43 Gray/Lt Blue Lt Blue 101 Canister Purge 11 44 Gray/Yellow Gray 150 VSS 3 45 Gray/Black Dk Green 915 VIP 1 19 46 Pink/Lt Blue Pink 914 VIP 1 18 47 Tan/Orange Tan 926 VIP 1,FP Relay 22 48 Lt Blue/Orange Lt Blue 201 S.E.S Lt,VIP 1 17 49 Tan/Red Lt Green 209 VIP 2 48 50 White/Pink White 264 IAC 21 51 White/Lt Blue White 240 Octane Adjust 29 52 White/Red Dk Green 33 MLPS 30 53 White/Pink White 40 Octane Adjust 29 52 White/Lt Blue White 198 A/C Clutch 10 55 Dk Green/Orange <td< td=""><td>743</td><td>IAT</td><td>25</td><td>41</td><td>Lt Green/Pink</td><td>Yellow</td></td<>	743	IAT	25	41	Lt Green/Pink	Yellow
101 Canister Purge 11 44 Gray/Yellow Gray 150 VSS 3 45 Gray/Black Dk Green 915 VIP 1 19 46 Pink/Lt Blue Pink 914 VIP 1 18 47 Tan/Orange Tan 926 VIP 1,FP Relay 22 48 Lt Blue/Orange Lt Blue 201 S.E.S Lt,VIP 1 17 49 Tan/Red Lt Green 209 VIP 2 48 50 White/Pink White 264 IAC 21 51 White/Lt Blue White 240 Octane Adjust 29 52 White/Pink White 33 MLPS 30 53 White/Pink White 34 White/Pink White White White 198 A/C Clutch 10 55 Dk Green/Orange 359 ECT,TPS 46 56 Gray/Red Gray	94	LF O2	43	42		Dk Blue
150 VSS 3 45 Gray/Black Dk Green 915 VIP 1 19 46 Pink/Lt Blue Pink 914 VIP 1 18 47 Tan/Orange Tan 926 VIP 1,FP Relay 22 48 Lt Blue/Orange Lt Blue 201 S.E.S Lt,VIP 1 17 49 Tan/Red Lt Green 209 VIP 2 48 50 White/Pink White 264 IAC 21 51 White/Lt Blue White 240 Octane Adjust 29 52 White/Red Dk Green 33 MLPS 30 53 White/Pink White 737 Check Temp Ind. 53 54 White/Lt Blue White 198 A/C Clutch 10 55 Dk Green/Orange 359 ECT,TPS 46 56 Gray/Red Gray 359 IAT,VIP 1 58 Gray/Red Gray	74	RT O2	44	43	Gray/Lt Blue	Lt Blue
915 VIP 1 19 46 Pink/Lt Blue Pink 914 VIP 1 18 47 Tan/Orange Tan 926 VIP 1,FP Relay 22 48 Lt Blue/Orange Lt Blue 201 S.E.S Lt,VIP 1 17 49 Tan/Red Lt Green 209 VIP 2 48 50 White/Pink White 264 IAC 21 51 White/Lt Blue White 240 Octane Adjust 29 52 White/Red Dk Green 33 MLPS 30 53 White/Pink White 737 Check Temp Ind. 53 54 White/Lt Blue White 198 A/C Clutch 10 55 Dk Green/Orange 359 ECT,TPS 46 56 Gray/Red Gray 359 IAT,VIP 1 58 Gray/Red Gray 359 LF,RT O2 59 Gray/Red Gray	101	Canister Purge		44	Gray/Yellow	Gray
914 VIP 1 18 47 Tan/Orange Tan 926 VIP 1,FP Relay 22 48 Lt Blue/Orange Lt Blue 201 S.E.S Lt,VIP 1 17 49 Tan/Red Lt Green 209 VIP 2 48 50 White/Pink White 264 IAC 21 51 White/Lt Blue White 240 Octane Adjust 29 52 White/Red Dk Green 33 MLPS 30 53 White/Pink White 737 Check Temp Ind. 53 54 White/Lt Blue White 198 A/C Clutch 10 55 Dk Green/Orange 359 ECT,TPS 46 56 Gray/Red Gray 359 LGRVP,CID 57 Gray/Red Gray 359 LF,RT O2 59 Gray/Red Gray				45		
926 VIP 1,FP Relay 22 48 Lt Blue/Orange Lt Blue 201 S.E.S Lt,VIP 1 17 49 Tan/Red Lt Green 209 VIP 2 48 50 White/Pink White 264 IAC 21 51 White/Lt Blue White 240 Octane Adjust 29 52 White/Red Dk Green 33 MLPS 30 53 White/Pink White 737 Check Temp Ind. 53 54 White/Lt Blue White 198 A/C Clutch 10 55 Dk Green/Orange 359 ECT,TPS 46 56 Gray/Red Gray 359 EGRVP,CID 57 Gray/Red Gray 359 IAT,VIP 1 58 Gray/Red Gray 359 LF,RT O2 59 Gray/Red Gray		VIP 1	19	46	Pink/Lt Blue	Pink
201 S.E.S Lt, VIP 1 17 49 Tan/Red Lt Green 209 VIP 2 48 50 White/Pink White 264 IAC 21 51 White/Lt Blue White 240 Octane Adjust 29 52 White/Red Dk Green 33 MLPS 30 53 White/Pink White 737 Check Temp Ind. 53 54 White/Lt Blue White 198 A/C Clutch 10 55 Dk Green/Orange 359 ECT,TPS 46 56 Gray/Red Gray 359 EGRVP,CID 57 Gray/Red Gray 359 IAT,VIP 1 58 Gray/Red Gray 359 LF,RT O2 59 Gray/Red Gray	914	VIP 1	18	47	Tan/Orange	Tan
209 VIP 2 48 50 White/Pink White 264 IAC 21 51 White/Lt Blue White 240 Octane Adjust 29 52 White/Red Dk Green 33 MLPS 30 53 White/Pink White 737 Check Temp Ind. 53 54 White/Lt Blue White 198 A/C Clutch 10 55 Dk Green/Orange 359 ECT,TPS 46 56 Gray/Red Gray 359 EGRVP,CID 57 Gray/Red Gray 359 IAT,VIP 1 58 Gray/Red Gray 359 LF,RT O2 59 Gray/Red Gray						
264 IAC 21 51 White/Lt Blue White 240 Octane Adjust 29 52 White/Red Dk Green 33 MLPS 30 53 White/Pink White 737 Check Temp Ind. 53 54 White/Lt Blue White 198 A/C Clutch 10 55 Dk Green/Orange 359 ECT,TPS 46 56 Gray/Red Gray 359 EGRVP,CID 57 Gray/Red Gray 359 IAT,VIP 1 58 Gray/Red Gray 359 LF,RT O2 59 Gray/Red Gray					Tan/Red	
240 Octane Adjust 29 52 White/Red Dk Green 33 MLPS 30 53 White/Pink White 737 Check Temp Ind. 53 54 White/Lt Blue White 198 A/C Clutch 10 55 Dk Green/Orange 359 ECT,TPS 46 56 Gray/Red Gray 359 EGRVP,CID 57 Gray/Red Gray 359 IAT,VIP 1 58 Gray/Red Gray 359 LF,RT O2 59 Gray/Red Gray	209		48	50	White/Pink	
33 MLPS 30 53 White/Pink White 737 Check Temp Ind. 53 54 White/Lt Blue White 198 A/C Clutch 10 55 Dk Green/Orange 359 ECT,TPS 46 56 Gray/Red Gray 359 EGRVP,CID 57 Gray/Red Gray 359 IAT,VIP 1 58 Gray/Red Gray 359 LF,RT O2 59 Gray/Red Gray					White/Lt Blue	
737 Check Temp Ind. 53 54 White/Lt Blue White 198 A/C Clutch 10 55 Dk Green/Orange 359 ECT,TPS 46 56 Gray/Red Gray 359 EGRVP,CID 57 Gray/Red Gray 359 IAT,VIP 1 58 Gray/Red Gray 359 LF,RT O2 59 Gray/Red Gray		3				
198 A/C Clutch 10 55 Dk Green/Orange 359 ECT,TPS 46 56 Gray/Red Gray 359 EGRVP,CID 57 Gray/Red Gray 359 IAT,VIP 1 58 Gray/Red Gray 359 LF,RT O2 59 Gray/Red Gray						
359 ECT,TPS 46 56 Gray/Red Gray 359 EGRVP,CID 57 Gray/Red Gray 359 IAT,VIP 1 58 Gray/Red Gray 359 LF,RT O2 59 Gray/Red Gray						
359 EGRVP,CID 57 Gray/Red Gray 359 IAT,VIP 1 58 Gray/Red Gray 359 LF,RT O2 59 Gray/Red Gray					_	
359 IAT,VIP 1 58 Gray/Red Gray 359 LF,RT O2 59 Gray/Red Gray			46		•	2
359 LF,RT O2 59 Gray/Red Gray						· ·
						•
359 Octane Adjust 30 Gray/Red Gray					•	2
	359	Octane Adjust		30	Gray/Red	Gray

Fuse Designation & Size

The harness has a total of eight fuses. Shown below is a diagram of what each fuse protects. The illustration is the front view of the Telorvek panel.

Fuse Block #1						
Fuse Designation	Fuse Size Block #1					
Left & Right Injectors	15 AMP					
Canister Purge & EGR Solenoids	10 AMP					
IAC, Service Engine Soon LT	10 AMP					
Ignition Control Module, Mass Air Flow Sensor, Electronic Engine Control Module	15 AMP					

Fuse Block #2					
Fuse Designation	Fuse Size Block #2				
Left & Right O2 Sensors	20 AMP				
Ignition Coil Wires	20 AMP				
Fuel Pump Relay	10 AMP				
Fuel Pump Relay, Electronic Engine Control Module	20 AMP				



The Detail Zone has taken the extra effort to produce a quality, easy to understand instructions. We will aggressively prosecute any other harness supplier who attempts to copy this material!!