

Wire Harness Installation Instructions

For Installing:

Part #50001 - Race Car Kit/8 Circuit

Part #50002 - Race Car Kit/12 Circuit

Part #50101 - Race Car Fuse Block/12 Circuit

Part #50201 – 8 Switch Dash Mounted Panel

Part #50202 - 8 Switch Roll Bar Mounted Panel

Manual #90502



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P/N 90502 Painless Wiring Manual

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1.0 INTRODUCTION

You have purchased what we at Perfect Performance Products, Inc. believe to be the most up-to-date and easiest-to-install automotive racing wire harness or accessory on the market. It is designed for easy installation, even if you have no electrical experience.

The 50002 fuse block can be easily attached to any under-dash location. By using the optional Dimmer Switch Extension cable (not included) you can mount the fuse block under the dash on the passenger side. There is enough length to the wire at all engine, dash, and trunk locations to complete the installation without splicing. The fuse block, voltmeter, fuel gauge, oil pressure gauge, temperature gauge, turn signal lights, dimmer switch, and dash lights are all pre-wired, allowing for easy hookup. The proper fuses and flashers have been pre-installed in the fuse blocks. In addition, all wires are color-coded. This will help you identify the different circuits during installation and later on if additions to the overall system are necessary.

PPPI Wire Harness Kits are designed to be used in vehicles with a General Motors-keyed steering column, or other steering columns depending on the kit purchased. All wire is TXL (cross-linked polyethylene), 600 volt, 125 degrees c. Standard automotive wire is GPT, 300 volt, 80 degrees c. with PVC insulation.

The 50002 12-Circuit Racing Wire Harness Kit has been designed with three major groups incorporated into it:

ENGINE/HEADLIGHT GROUP

Includes high beam, low beam, park, right turn, left turn, electric fan, water pump, horn, starter solenoid and battery feed, alternator and alternator

excitor wire, distributor, water temperature, and oil pressure.

REAR LIGHT GROUP Includes tail lights, left and right turn signals, brake light, fuel sender, dome

light and electric fuel pump.

ACCESSORY GROUP Includes wires to connect tail and headlamps, ignition, fuel pumps, water pump,

cooling fan, and an accessory.

The 50001 8-Circuit Racing Wire Harness Kit consists of two major groups:

DASH GROUP Provides for switching of lights, two fuel pumps, water pump, cooling fan,

start and ignition, and an accessory.

ACCESSORY GROUP Includes wires to connect tail and headlamps, ignition, fuel pumps, water

pump, cooling fan, and an accessory.

2.0 ABOUT THESE INSTRUCTIONS

These instructions provide information for the installation of the 50001 8-circuit competition Wire Harness Kit, the 50002 12-circuit Racing Application Wire Harness Kit, the 50101 12-circuit Replacement Fuse Block, and the 50201/50202 8-circuit Switch Panel. The contents of these instructions are divided into major **Sections**, as follows:

- 1.0 Introduction
- 2.0 About These Instructions
- 3.0 Tools Needed
- 4.0 Pre-Installation and Harness Routing Guidelines
- 5.0 General Installation Instructions
- 6.0 50002 Racing Application Wire Harness Kit
- 7.0 50001 8-Circuit Racing Wire Harness Kit
- 8.0 50201/50202 8-Circuit Switch Box/Panel
- 9.0 50101 Replacement Fuse Block

Sections are further divided into **Paragraphs** and Steps. Throughout, the **Figure** numbers refer to illustrations and the **Table** numbers refer to information in table form. These are located in or near the sections or paragraphs to which they correspond. Always pay special and careful attention to any *Notes*, especially those in the Tables, and any text marked *CAUTION*.

3.0 TOOLS NEEDED

In addition to your regular tools, you will need, at least, the following tools:

Crimping tool *Note: Use a quality tool to avoid over-crimping.*

Wire stripper

Continuity tester (Test light or ohm meter)

Electric drill 1-1/4" Hole saw

Small (10 amp or less) battery charger

4.0 PRE-INSTALLATION & HARNESS ROUTING GUIDELINES

The installation of your wire harness kit consists mainly in two parts:

- The physical routing, positioning, and securing of the wire harness, wire groups, and individual wires.
- The proper electrical connection of the individual circuits.

These two major tasks are not separate steps, but are integrated together. That is, you will route some wires and make some connections, route some more wire and make some more connections.

We cannot tell you how to physically route the harness in your automobile. That depends a great deal upon the particular make of automobile and, secondarily, to what extent you want to secure and conceal the harness. We do offer some general guidelines and routing practices starting in **Paragraph 4.2**, GENERAL installation instructions in **Section 5.0**, and precise instructions concerning the electrical connections you will have to make in beginning in **Section 6.0**. To help you begin thinking through the installation of your wire harness, read the following sections:

- **4.1** Familiarize yourself with the harness by locating each of the harness sections in the following list. (Whenever a particular harness section is referred to in these instructions it is shown "all caps": ENGINE SECTION A.
 - **4.1.1** The eleven SECTIONS of the 50002 12-Circuit Racing Application Wire Harness Kit are listed immediately following. For complete information concerning the individual circuits and wires that make up these harness SECTIONS, see **Section 6.3**.

ACCESSORY SECTION SWITCHES ACCESSORY SECTION B+ DIMMER SWITCH SECTION ENGINE SECTION ENGINE SECTION A HEADLIGHT SECTION A HEADLIGHT SECTION B
IGNITION SWITCH SECTION
INSTRUMENT PANEL SECTION
TAIL SECTION
TURN SIGNAL SECTION

4.1.2 The two SECTIONS of the 50001 8-Circuit Competition Wire Harness Kit are listed immediately following. For complete information concerning the individual circuits and wires that make up these harness SECTIONS, see **Section 7.3**.

ACCESSORY SECTION B+ INSTRUMENT PANEL SECTION

- **4.1.3** The 50101 12-Circuit Replacement Fuse Block and the 50201/50202 8-Circuit Switch Panel wire assignments are not separated into SECTIONS.
- **4.2** Decide where and how the Fuse Block or Switch Panel will be mounted. PPPI Wire Harness Kits are designed for the fuse block to be mounted on the driver's side, under the dash. If you want to install the fuse block on the passenger side, you must obtain the Dimmer Switch Extension Cable at the dealer where you obtained this wire harness kit

Emergency Flashers
Horn
Dome Lights
Lights
Wipers
Electric Fuel Pump(s)
Electric Cooling Fan
Turn Signals
Radio (Ign. switched B+)
Gauges

4.3 Decide which of the following circuits you will be using in your system and where the harness groups or

- **4.4** A good exercise is to lay out the wire harness on the floor beside your automobile and identify all the SECTIONS.
- 4.5 You will want to route the harness through and around open areas. Inside edges provide extra protection from hazards and also provide places for tie wraps, clips and other support.
- **4.6** Route the harness away from sharp edges, exhaust pipes, and hood, trunk and door hinges.
- **4.7** Plan where harness supports will be located. Use a support every 12 inches unless the harness routes under the floor carpet.
- **4.8** Allow enough slack in the harness at places where movement could possibly occur (body to frame, frame to engine, etc.).
- 4.9 At wire ends, don't depend on the terminals to support the harness. The weight of the harness could cause terminals to disconnect.
- **4.10** The wires should be bundled into harness groups. Use nylon ties, poly split loom, or tape.

5.0 GENERAL INSTALLATION INSTRUCTIONS

5.1 GROUNDING THE AUTOMOBILE

wires will be routed:

Accessories

A perfectly and beautifully wired automobile will nevertheless have problems if everything is not properly grounded. Don't go to the careful effort of installing a quality wire harness only to neglect proper grounding.

Note: PPPI Wire Harness Kits include no ground wire except the black wire from the Switch Panel, and the ground wire for the 50001 fuse block. You must supply ground wire (14-16 gauge) for all other circuits.

- **5.1.1** Connect a Ground Strap or Cable (even a 10-gauge wire is too small) from the Negative Battery terminal to the automobile chassis (frame).
- **5.1.2** Connect a Ground Strap from the Engine to the chassis. DO NOT RELY UPON THE MOTOR MOUNTS TO MAKE THIS CONNECTION.
- **5.1.3** Connect a Ground Strap from the Engine to the Body.
- **5.1.4** If you have a fiberglass body you should install a terminal block to ground all your gauges, lights, and accessories. Ground the Terminal Block and everything connected to it will be grounded.

5.2 ROUGH INSTALLATION

CAUTION: DISCONNECT THE POWER FROM YOUR VEHICLE BY REMOVING THE NEGATIVE BATTERY TERMINAL FROM THE BATTERY.

Note: Your kit comes equipped with a fusible link. This safety device is designed to go between wire #816 and the battery source for overall harness protection.

Note: Make no wire connections or permanent mounting of any kind at this time!

- **5.2.1** Position the Fuse Block and/or Switch Panel in their intended locations. Refer to the **Introduction** and **Paragraph 4.2** if you want to mount the fuse block on the passenger side of your automobile.
- **5.2.2** Drill a 1-1/4" (1.25") hole near the fuse block for engine and headlight group wires to pass through (ENGINE SECTION, ENGINE SECTION A, and HEADLIGHT SECTION A).
- **5.2.3** Install the firewall grommet. Route engine and headlight group wires through the grommet and position the harness groups in the areas decided upon in **Paragraphs 4.3** and **4.4**.
- **5.2.4** Route dash group (ACCESSORY SECTION B+, ACCESSORY SECTION SWITCHES, HEADLIGHT SECTION B, and INSTRUMENT PANEL SECTION) upward to rear of dash and temporarily tie in place.
- **5.2.5** Position rear group (TAIL SECTION), on floor pan area decided upon in **Paragraphs 4.3** and **4.4**.

5.3 HARNESS ATTACHMENT

Note: Harness routing and shaping should be a time-consuming task. Taking your time will enhance the beauty of your installation. Please be patient and TAKE YOUR TIME!

- **5.3.1** Permanently mount fuse block.
- **5.3.2** Mold harness groups to the contour of floor pan, firewall, fender panels, and any other area where wires or harness groups are routed. Remember to route the harness away from sharp edges, exhaust pipes, hood, trunk and door hinges, etc.
- **5.3.3** Attach harness groups to your automobile with clips or ties starting at the fuse block and working toward the rubber grommet for the front groups and along the floor pan for the rear group. The dash wires should be routed out of the way of any under-dash obstacles, such as the cowl vent, radio, etc.

Note: Do not tighten tie wraps and mounting devices at this time. Make all harness attachments LOOSELY.

5.3.4 When used every 1-1/2" or so on the visible areas of the harness, the plastic wire ties make a very attractive assembly. A tie installed in other areas every 6" or so will hold the wires in place nicely. Remember to take your time.

5.4 TERMINAL INSTALLATION AND MAKING CONNECTIONS

Note:In the following steps you will be making the circuit connections. Before you start, you should carefully read **Sections 6.0** through **10.0** as applicable, and continually refer to the wire connection indexes, DOUBLE-CHECKING your routing and length calculations before cutting any wires and making connections. Give special attention to Turn Signal and Ignition Switch connections. These can be somewhat confusing.

- **5.4.1** Have all needed tools and connectors handy.
- **5.4.2** Select the correct size terminal for the wire and stud application.
- **5.4.3** Determine the correct wire length and cut the wire. Remember to allow enough slack in the harness and wires at places where movement could possibly occur, such as automobile body to frame, frame to engine, etc. Double check your calculations.
- **5.4.4** Strip insulation away from wire. Strip only enough necessary for the type of terminal lug you are using.

Note: In the following step, make sure that the terminal is crimped with the proper die in the crimping tool. An improper crimp will NOT make a good connection. DO NOT OVER-CRIMP!

- **5.4.5** Crimp the terminal onto the wire.
- **5.4.6** Connecting the harness throughout the groups is a repeating process. Make sure that each wire is FIRST properly routed and THEN attach. DON'T ATTACH FIRST THEN ROUTE AFTERWARD.
- **5.4.7** When all wires are attached, tighten the mounts and ties to secure harness permanently.

5.5 TESTING THE SYSTEM

5.5.1 Use a small (10 amp or less) battery charger to power up the vehicle for circuit testing. If there is a problem anywhere, the battery charger's low amperage and internal circuit breaker will provide circuit protection. Connect the battery charger's NEGATIVE output to the automobile chassis or engine block and its POSITIVE output to the automobile's positive battery terminal.

CAUTION: IF YOU HAVE NOT YET DISCONNECTED THE BATTERY FROM THE AUTOMOBILE, DO SO NOW! DO NOT CONNECT THE BATTERY CHARGER WITH THE BATTERY CONNECTED. YOU WILL SIMPLY DEFEAT THE PURPOSE OF USING THE CHARGER.

- **5.5.2** Individually turn on each light, ignition, wiper circuit, etc, and check for proper operation.
- **5.5.3** When all circuits check out THEN attach the battery cable to the battery for vehicle operation.

6.0 50002 12-CIRCUIT RACING APPLICATION WIRE HARNESS KIT

6.1 CONTENTS OF THE 50002 WIRE HARNESS KIT

Take inventory to see that you have everything you're supposed to have in this kit. If anything is missing, go to the dealer where you obtained the kit or contact Perfect Performance Products, Inc. at (817) 244-6898. The 50002 Wire Harness Kit should contain the following items:

- The Main Wire Harness, with the Fuse Block wired in and fuses installed.
- Dimmer Switch Cable. This cable comprises the DIMMER SWITCH SECTION. It connects into the harness at the white 3-pin connector. The optional Dimmer Switch Extension Cable (not included) is inserted here if you are mounting the Fuse Block on the passenger side of your automobile.
- Steering Column "Pigtail" cables. These cables constitute the TURN SIGNAL SECTION and the IGNITION SWITCH SECTION. **Both sections are unlabeled**. These cables connect into the main harness at the white 6-pin and 9-pin connectors. See **Figure 6.5** for GM-keyed column connector pin assignments.
- Firewall grommet
- 1 Package of nylon tie wraps
- 2 GM turn signal connectors (See Figure 6.5).
- 2 GM Ignition Switch Connectors (See **Figure 6.5**).
- Parts box, containing the Fusible Link (See **Figure 6.3**), a GM alternator connector, terminals, splices, etc.
- Race Car Wire Harness Installation Instructions PIN 90502 (This booklet)

6.2 50002 SPECIFIC CIRCUIT CONNECTIONS

If you have not already done so, read **Sections 4.0** and **5.0** of these instructions and think through the installation of the harness kit before securing or cutting any wires.

6.2.1 Early GM Alternator (before 1969)- External Regulator. See Figure 6.1.

Note: Your Alternator may not appear exactly as represented in the **Figures**, but the circuits are wired the same.

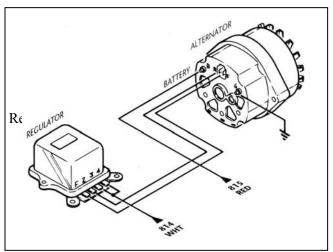


Figure 6.1 Early GM Alternator - External Regulator

- A. With a short 16-gauge jumper wire, connect Voltage Regulator terminals 3 & 4 together. Connect ENGINE SECTION wire #814 (wht) to Voltage Regulator terminal 3 or 4.
- B. Connect ENGINE SECTION wire #815 (red) to the Alternator Output lug (Bat).
- C. Connect a 14-gauge wire from Voltage terminal 2 to Alternator terminal R.
 Connect a 14-gauge wire from Voltage Regulator terminal F to Alternator terminal F.
- D. Connect a 16-gauge ground wire from the Alternator Ground lug (G) to chassis ground.

6.2.2 Late GM Alternator (after 1972) Internal Regulator. See Figure 6.2.

- A. Connect ENGINE SECTION wire #814 (wht) to Alternator terminal 1. Connect ENGINE SECTION wire #815 (red) to the Alternator Output lug (Bat).
- B. Connect a short 14-gauge jumper wire from Alternator terminal 2 to the Alternator Output lug (Bat).
- C. A connector and terminal spades for late GM Alternators are included in the parts box.

6.2.3 GM One-Wire Alternator.

- A. Connect ENGINE SECTION wire #815 (red) to the Alternator Output lug (Bat).
- B. Insulate and stow ENGINE SECTION wire #814 (wht). Do not install jumper wire. No wires are connected to Alternator terminals 1 & 2.
- C. When using a 1-wire alternator you must use a voltmeter or ammeter. A warning light cannot be wired in.

6.2.4 GM Ignition (Start/Run) System. See Figure 6.4.

Note: If you are going to install an ammeter, see **Section 6.2.6 first.**

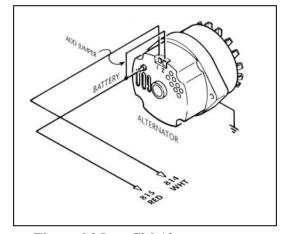


Figure 6.2 Late GM Alternator Internal Regulator

- A. With crimping tool, attach Fusible Link (**Figure 6.3**) onto end of ENGINE SECTION (single) 10 ga. wire #816 (red) AFTER having routed wire from the Fuse Panel to the Starter Solenoid. This link is 2 gauges smaller than wire #816 and serves as a fuse to protect the entire harness. DO NOT OMIT IT!
- B. Connect wire #816-with fusible link installed to the Starter Solenoid Battery terminal. This is the same lug that the large red cable from the battery is normally connected to.
- C. Connect ENGINE SECTION A wire #819 (ppl) to the Starter Solenoid Start (S) terminal.
- D. If you are using the Ballast Resistor, mount it away from other wiring or hoses. The ballast resistor gets very hot during operation. Connect ENGINE SECTION A wire #820 (pnk) to one end of the Ballast Resistor. Connect the other end of the ballast resistor to the Ignition Coil POSITIVE (+) terminal with 14-gauge wire (you may have enough pink wire left over to accomplish this). If you are not using a Ballast Resistor, connect wire #820 directly to the Ignition Coil POSITIVE (+) terminal.

Note: Older model vehicles ('55-'59) used Ballast Resistors. From about '59 to about '74 Resistor Wire was used, and from about '74 on HEI electronic ignition has been employed.

- E. The Ignition Coil NEGATIVE (-) terminal is connected to the Distributor. Also connect ENGINE SECTION A wire #823 (ppl/wht) to the Ignition Coil NEGATIVE (-) terminal. This is the tachometer source. If you are not using a tachometer, insulate and stow wire #823.
- F. A 14-gauge wire connected from the Starter Solenoid Ignition (I) terminal to the ignition coil side of the Ballast Resistor is optional. This wire (the dashed line in **Figure 6.4**) serves as a ballast resistor BYPASS during engine starting. However, if the starter solenoid shorts out, which is not unusual, the engine will stop running and will not restart as long as this wire is connected. You may therefore choose to omit it. If you are not using a ballast resistor, leave the Starter Solenoid Ignition (I) terminal unconnected and do not install the bypass wire.



Figure 6.3 Fusible Link

G. When using an HEI Distributor connect wire #820 (pnk) to the BAT B+ terminal of the Distributor using one of the blue "push-on" splices provided. If a Tach is used wire #823 (ppl/wht) is connected to the TACH terminal, using one of the blue "push-on" splices.

6.2.5 Turn Signal & Ignition Switch Connectors. See Table 6.1 and Figure 6.5.

A. There are differing Turn Signal plugs on most tilt columns. The difference is in the length of the male plug that is mounted ON THE COLUMN. One is 4-1/4" (4.25") long and the other is 3-7/8"(3.875"). This is a mere 3/8" (0.375") difference, so measure the plug carefully. This kit has included female connectors to mate with either size column-mounted plug. See **Figure 6.5** to determine which connector is correct for your vehicle.

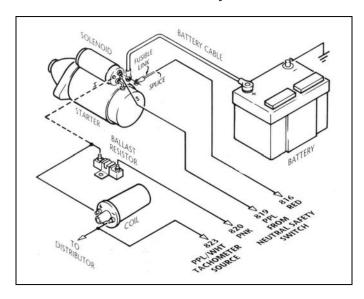


Figure 6.4 GM Ignition (Start/Run) System

The TURN SIGNAL SECTION wires have already been terminated for you. Choose the proper connector and install the contacts according to **Table 6.1** and **Figure 6.5**.

Note: The contacts will only insert into the connectors ONE WAY, as shown in **Figure 6.5**. Make certain you are inserting the wires into the CORRECT LOCATIONS as the contacts are difficult if not impossible to remove once inserted.

- B. Connect the wires of the IGNITION SWITCH SECTION to the two (2) GM-style Ignition Connectors according to **Figure 6.5** and **Table 6.1**. The contacts are in the Parts Box.
- C. IGNITION SWITCH SECTION wire #819 (ppl) has been cut and spade lugs installed to be connected to the Neutral Safety Switch at the base of the steering column. If the switch is mounted on the floor shifter, add some wire to reach it. FOR SAFETY, PLEASE USE A NEUTRAL SAFETY SWITCH!
- D. The harness does not support seat belt buzzers or key alarms.
- E. To supply power to a throttle body or tuned port fuel injection use ENGINE SECTION A wire #820 (pnk) as the fused ignition power source.

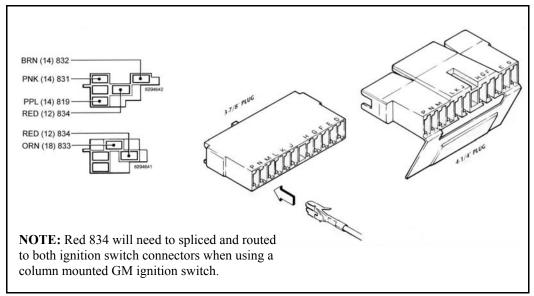


Figure 6.5 Turn Signal and Ignition Switch Connectors

Designation	Wire No.	Color	Turn Signal Connector	
Turn Signal Secti	on			
Horn	853	Blk	G	
LF Turn Signal	826	Lt.Blu	Н	
RF Turn Signal	825	Blu	J	
Hazard Flasher	851	Brn	K	
Turn Flasher	852	Ppl	L	
LR Turn Signal	849	Ylw	M	
RR Turn Signal	848	Grn	N	
Stop Lamp Switch	818	Wht	P	
Ignition Switch S	ection			
Ign. Start	819	Ppl		
Ign. Coil	831	Pnk		
Acc. Fuse Block	832	Brn		
Ign. Switch B+	833	Orn		
Battery B+	834	Red		
Battery Fuse Block				
Switch Panel Ground	861	Blk		
50201/50202 Instr	rument Panel S	Section		
Ign. Start	819	Ppl		
Ign. Coil	831	Pnk		
Acc. Fuse Block*	832	Brn		
Ign. Switched B+	833	Orn		
Battery B+	834	Red		
Ground	861	Blk		
Headlights	807	Blu/Ylw		
Taillights	829	Brn		
Elec.Water Pump	862	Blu		
Elec.Fuel Pump #1	847	Ylw/Wht		
Elec.Fuel Pump #2	863	Grn		
Elec.Cooling Fan	801	Gry/Wht		
* Used with the 50	002 system only			

Table 6.1 GM Ignition, Turn Signal Wiring, and Switch Panel Wiring

6.2.6 Connecting an Ammeter and the Fusible Link. See Figure 6.6.

- A. The Ammeter must be inserted IN SERIES onto the ENGINE SECTION (single) 10-gauge wire #816 (red) that routes from the Fuse Panel to the Starter Solenoid on GM (Section 6.2.4) and from the Fuse Panel to the Starter Relay on Ford and Mopar.
- B. The overall physical length of this circuit should be as short as possible (allow some slack, however). You may have to cut wire #816 and you may have to add some additional length of 10-gauge wire. USE ONLY 10-gauge wire.
- C. Route wire #816 (from the Fuse Panel) and connect to the Ammeter NEGATIVE terminal. To complete the installation, follow ONE of the next three paragraphs, as appropriate.

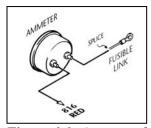


Figure 6.6 Ammeter & Fusible Link

- D. If you are using a GM starter, route the remainder of wire #816 from the terminal to the Starter Solenoid Battery (B+) terminal. This is the terminal the battery cable is connected to. Splice the Fusible Link or Maxifuse (**Figure 6.3**) onto the end of wire #816 and connect to the Starter Solenoid Battery (B+) terminal. E. If you are using a Ford starter with a starter relay, route the remainder of wire #816 from the Ammeter POSITIVE terminal to the Starter Relay Battery (B+) terminal. This is the terminal the battery cable is connected to. Splice the Fusible Link or Maxifuse (**Figure 6.3**) onto the end of wire #816 and connect to the Starter Relay Battery (B+) terminal.
- F. If you are using a Mopar starter with a starter relay, route the remainder of wire #816 from the Ammeter POSITIVE terminal to the Starter Relay Battery (B+) terminal, and from this terminal to the Starter Solenoid Battery (B+) terminal. This is the terminal the battery cable is connected to. Splice the Fusible Link or Maxifuse (Figure 6.3) onto the end of wire #816 and connect to the Starter Solenoid Battery (B+) terminal.

CAUTION: BOTH AMMETER TERMINALS MUST ABSOLUTELY BE ISOLATED FROM GROUND. IF EITHER AMMETER TERMINAL COMES IN CONTACT WITH GROUND, A HARNESS FIRE IS INEVITABLE. USE EXTREME CARE AND DILIGENCE IN CONNECTING AMMETERS.

CAUTION: BE SURE YOUR AMMETER'S CURRENT (AMPS) RATING EXCEEDS THE CURRENT OUTPUT OF YOUR ALTERNATOR. PERFECT PERFORMANCE PRODUCTS, INC. DOES NOT RECOMMEND USING ANY AMMETER RATED AT LESS THAN 65 AMPS. DO NOT USE AN AMMETER WITH ANY HIGH-OUTPUT ALTERNATOR (MORE THAN 65 AMPS).

6.2.7 Interior Lighting. See Figure 6.7.

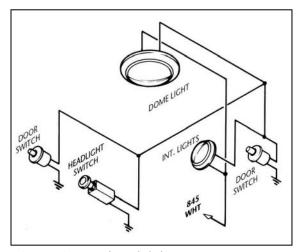


Figure 6.7 Interior Lighting

- A. Interior Lights are switched through the door switches and the dash-mounted headlight switch, which is usually rotated counter-clockwise to turn on. These switches apply ground to the circuit. 12V (B+) is continually present at the light bulbs.
- B. You should leave your existing interior light wiring intact. The 50002 harness supplies only the 12V (B+) to the circuit via TAIL SECTION wire #845 (wht).
- C. Locate the existing 12V feed wire and connect it to TAIL SECTION wire #845.

6.2.8 HEADLIGHT SECTION A. See Figure 6.8.

A. Connect HEADLIGHT SECTION A wire #824 (grn) to the Horn's hot terminal. TURN SIGNAL SECTION wire #853 (blk) was connected in the Turn Signal Connector section of these instructions. The Horn Relay is pre-wired into the Fuse Panel.

B. Connect HEADLIGHT SECTION A #808 (lt.grn) and #809 (tan) to BOTH head-lamps. These are the hi- and lowbeam wires Connect the black wires of the headlamp connectors to Chassis Ground. You should have enough wire to accomplish this. Should you need to pass these wires through a fender well, use grommets. Don't forget to thread the grommets onto the wires

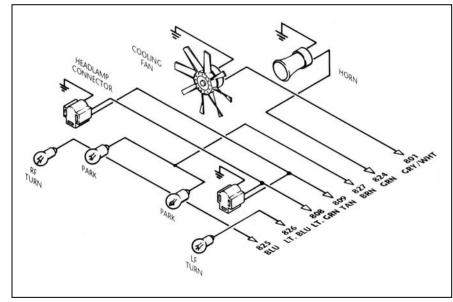


Figure 6.8 HEADLIGHT SECTION A Wiring

grommets onto the wires BEFORE you connect them.

C. Connect HEADLIGHT SECTION A wire #827 (brn) to ALL front Park Lights. Connect HEADLIGHT SECTION A wire #825 (blu) to the RIGHT FRONT Turn Signal. Connect wire #826 (lt.blu) to the LEFT FRONT Turn Signal.

Note: Don't confuse Park Lights with Turn Signals.

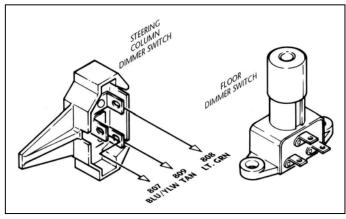


Figure 6.9 Dimmer Switches

- D. Connect HEADLIGHT SECTION A wire #801 (gry/wht) to the Electric Fan hot terminal. The gry/wht wire #806 of ACCESSORY SECTION B+ and gry/wht wire #801 of ACCESSORY SECTION SWITCHES (neither shown) connect to the Electric Fan Switch in the dash.
- E. Connect DIMMER SWITCH SECTION wires #807, #808, and #809 to your floor-mounted Dimmer Switch. If you have a column-mounted Dimmer Switch, you may need to run additional wire up the column. See **Figure 6.9**.

6.2.9 HEADLIGHT SECTION B Wiring. See Figure 6.10.

Connect the 5 wires of HEADLIGHT SECTION B and the Dome Light Ground as shown. If you don't have a GM headlamp switch, you should trace out the wires and connect the new harness according to **Table 6.1**.

6.2.10 Instrument Panel Wiring

- A. Connect the wires of the INSTRUMENT PANEL SECTION as indicated in **Table 6.3**. Insulate and stow any wires you do not use.
- B. Connect a jumper from wire #835 (red/wht) to all Gauges' B+ terminals. Connect a jumper from wire #830 (brn) to all Gauges' Instrument Lighting terminals. Connect a jumper to all gauges' Ground terminals and connect to Chassis Ground.

6.2.11 Brake Light Switch

- A. Connect ENGINE SECTION A wires #817 (orn) and #818 (wht) to the Brake Light Switch whether it is attached close to the master cylinder or on the steering column.
- B. The Third Brake Light wire is pre-connected on the Switch end. Connect TAIL SECTION wire #850 (orn) to the Third Brake Light if applicable.

6.3 WIRE CONNECTION INDEX

In each section, connect the wire, as identified by its wire color, to the appropriate item in the CONNECT TO: column. Pay close attention to any **Notes** in this section, as identified by a small, raised number such as the one at the end of this sentence.

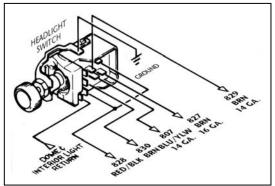


Figure 6.10 HEADLIGHT SECTION
B Wiring

Table 6.3 is divided into sections that correspond to the SECTIONS of the 50002 wire harness, (ACCESSORY SECTION B+, DIMMER SWITCH SECTION, etc.). The Index is divided vertically into six columns: COLOR, GA., NO., CONNECT TO, COMES FROM, and FROM SECTION.

The columns labelled COMES FROM and FROM SECTION are for your reference ONLY. The items in these columns tell you where each wire originates (COMES FROM) and from which section (FROM SECTION) of the harness.

The column labelled NO. contains an 800-series number that is used to identify various wires in the wiring diagrams that are a part of these instructions.

Many (but not all) of the wire numbers occur TWICE in this index. That is because you will be connecting BOTH ENDS of many of the particular wire segments. However, some wire segments are pre-connected at one end. For instance, all wires originating from the fuse block and certain other wires such as those originating from the horn relay, the dimmer switch, and the instrument panel section. These pre-connected wires are identified by an asterisk (*) in the COMES FROM column.

6.4 FUSE REQUIREMENTS

Headlight/Dome	25
Emergency Flashers/Stop	
Turn Signals/Wiper	
Gauges/Radio	
Horn/Accy. B+	
Electric Cooling Fan	20
Electric Fuel Pump(s)	20
Coil	
Electric Water Pump	10
Ignition Accessory (Center)	
Ignition Accessory (Lower Right)	

 Table 6.2
 Fuse Requirements

Color Ga. No. Connect To: Comes From: From Section:						
Cooling Fan Headlight Section A	Color	Ga.	No.	Connect To:	Comes From:	From Section:
Blue	ACCESSOR	RY SECT	ΓΙΟN	SWITCHES		
Blue	Gry/Wht ¹	14	801	Cooling Fan Switch ⁷	Cooling Fan	Headlight Section A
Ylw/Wht	Blue ^{2, 3}					
ACCESSORY SECTION B+ (This section is not used when using a 50201 or 50202 switch panel)						
Blue 16 805 Wiper Switch B+ Gry/Wht 14 806 Fan Switch B+ Blue² 14 864 Water Pump Switch B+ Fuse Block* Fluse						
Gry/Wht 14 806 Fan Switch B+ Fuse Block* Fluse Block* Flu	ACCESSOR	RY SECT	ΓΙΟΝ	B+ (This section is not use	ed when using a 5020	01 or 50202 switch panel)
Gry/Wht 14 806 Fan Switch B+ Fuse Block* Fluse Block* Flu	Rlue	16	805	Winer Switch R+	Fuse Block*	
Blue² 14 864 Water Pump Switch B+ Ylw/Wht 14 861 Fuel Pump #I Switch B+6 Ppl/Wht 14 865 Optional Accessory B+ Fuse Block* Tan 14 866 Optional Accessory B+ Fuse Block* ENGINE SECTION White 14 814 Alternator Excitor Red 12 815 Alternator B+ Fuse Block* Blue³ 14 862 Water Pump B+ Water Pump Switch Red 10 816 Battery at Str. Solenoid B+ ENGINE SECTION A Orange⁴ 16 817 Brake Switch B+ Water Pump Switch Purple 12 819 Starter Solenoid Pink 14 820 Coil B+ Lt.Grn 18 821 Temp. Sending Unit Lt.Blu/Blk 18 822 Oil Pressure Sending Unit Lt.Blu/Blk 18 823 Tachometer Source HEADLIGHT SECTION A Green 14 824 Horn B+ Blue 18 825 Right Front Turn Signal Brown 18 827 Parking Lights Brown 18 828 Park Brown Dimmer Switch Brown 18 829 Dow Beam Brown 18 827 Parking Lights Brown 18 828 Park Brown Dimmer Switch Brown 18 829 Dow Beam Brown 18 827 Parking Lights Brown 18 826 Brown Dimmer Switch Brown Bro		_		-		
Fuse Block*						
Ppl/Wht 14 865 Optional Accessory B+ Fuse Block* Tan 14 866 Optional Accessory B+ Fuse Block* ENGINE SECTION White 14 814 Alternator Excitor Fuse Block* Red 12 815 Alternator B+ Fuse Block* Blue³ 14 862 Water Pump B+ Water Pump Switch Accy. Section Switches Fuse Block* ENGINE SECTION A Orange⁴ 16 817 Brake Switch B+ Fuse Block* White 16 818 Brake Switch Turn Signal Switch Ignition Switch Start Ign. Switch Section Pink 14 820 Coil B+ Fuse Block* Lt.Grn 18 821 Temp. Sending Unit Lt.Blu/Blk 18 822 Oil Pressure Sending Unit Ppl/Wht 18 823 Tachometer Source Tachometer Instrument Panel Section HEADLIGHT SECTION A Green 14 824 Horn B+ Fuse Block* Green 14 824 Horn B+ Horn Relay* (Fuse Block) Blue 18 825 Right Front Turn Signal Lt.Blue 18 826 Left Front Turn Signal Brown 18 827 Parking Lights Headlight Switch Headlight Switch Headlight Switch Dimmer Switch Section Gry/Wht 14 801 Cooling Fan Fuse Block* HEADLIGHT SECTION B Red/Blk 12 828 Headlight Switch B+ Fuse Block*						
### Fuse Block* Fuse Block* Fuse Block*						
White 14 814 Alternator Excitor Red 12 815 Alternator B+ Fuse Block* Blue³ 14 862 Water Pump B+ Water Pump Switch Red 10 816 Battery at Str. Solenoid B+ Fuse Block* ENGINE SECTION A Orange⁴ 16 817 Brake Switch B+ Fuse Block* White 16 818 Brake Switch Turn Signal Switch Purple 12 819 Starter Solenoid Ignition Switch Start Pink 14 820 Coil B+ Fuse Block* Lt.Grn 18 821 Temp. Sending Unit Lt.Blu/Blk 18 822 Oil Pressure Sending Unit Ppl/Wht 18 823 Tachometer Source HEADLIGHT SECTION A Green 14 824 Horn B+ Horn Relay* Blue 18 825 Right Front Turn Signal Lt.Blue 18 826 Left Front Turn Signal Brown 18 827 Parking Lights Headlight Switch Brown 18 827 Parking Lights Headlight Switch Tan 14 809 Low Beam Dimmer Switch Dimmer Switch Section Gry/Wht 14 801 Cooling Fan Red/Blk 12 828 Headlight Switch B+ Fuse Block* Fuse Block* Furn Signal Switch Turn Signal Switch Turn Signal Section Turn Signal Switch Dimmer Switch Dimmer Switch Dimmer Switch Dimmer Switch Dimmer Switch Section Fan Switch Accy. Section Switches	-					
White 14 814 Alternator Excitor Red 12 815 Alternator B+ Blue³ 14 862 Water Pump B+ Red 10 816 Battery at Str.Solenoid B+ ENGINE SECTION A Orange⁴ 16 817 Brake Switch B+ White 16 818 Brake Switch Purple 12 819 Starter Solenoid Pink 14 820 Coil B+ Lt.Grn 18 821 Temp. Sending Unit Lt.Blu/Blk 18 822 Oil Pressure Sending Unit Ppl/Wht 18 823 Tachometer Source HEADLIGHT SECTION A Green 14 824 Horn B+ Blue 18 825 Right Front Turn Signal Lt.Blue 18 827 Parking Lights Brown 18 827 Parking Lights Brown 18 827 Parking Lights Gry/Wht 14 800 Cooling Fan Red/Blk 12 828 Headlight Switch B+ Red/Blk 12 828 Headlight Switch B+ Fuse Block* Fuse Block* Turn Signal Switch Turn Signal Section Turn Signal Switch Turn Signa	Tan	14	866	Optional Accessory B+	Fuse Block*	
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Brown 18 827 Parking Lights Headlight Switch Headlight Section B Lt.Grn 14 808 High Beam Dimmer Switch Dimmer Switch Section Tan 14 809 Low Beam Dimmer Switch Dimmer Switch Section Gry/Wht 14 801 Cooling Fan Fan Switch Accy. Section Switches HEADLIGHT SECTION B Red/Blk 12 828 Headlight Switch B+ Fuse Block*	Lt.Blue	18	826	Left Front Turn Signal		
Lt.Grn 14 808 High Beam Dimmer Switch Dimmer Switch Section Tan 14 809 Low Beam Dimmer Switch Dimmer Switch Section Gry/Wht 14 801 Cooling Fan Fan Switch Accy. Section Switches HEADLIGHT SECTION B Red/Blk 12 828 Headlight Switch B+ Fuse Block*	Brown					
Tan 14 809 Low Beam Dimmer Switch Dimmer Switch Section Gry/Wht 14 801 Cooling Fan Fan Switch Accy. Section Switches HEADLIGHT SECTION B Red/Blk 12 828 Headlight Switch B+ Fuse Block*						
Gry/Wht 14 801 Cooling Fan Fan Switch Accy. Section Switches HEADLIGHT SECTION B Red/Blk 12 828 Headlight Switch B+ Fuse Block*						
Red/Blk 12 828 Headlight Switch B+ Fuse Block*						
	HEADLIGH	IT SECT	ΓΙΟΝ Ι	В		
	D - 1/D11-	10	020	Haralliaha Caritah Da	F Dl1*	
RIII/VIII I/I XIII/ Haadlight Suutah' Dimmar Suutah Dimmar Suutah Saatian						D. G. (11 G. ()
	Blu/Ylw	14	807	Headlight Switch ⁷	Dimmer Switch	Dimmer Switch Section
Brown 14 829 Headlight Switch ⁷ Tail Lights Tail Section						
Brown 18 827 Headlight Switch Parking Lights Headlight Section A	= **					
Brown 18 830 Headlight Switch Instr.Panel Lighting Instrument Panel Section	Brown	18	830	Headlight Switch	Instr.Panel Lighting	Instrument Panel Section
DIMMER SWITCH SECTION	DIMMER S	WITCH	SECT	ΓΙΟΝ		
Blu/Ylw 14 807 Dimmer Switch Headlight Switch Headlight Section B	Rlu/Vlw	14	807	Dimmer Switch	Headlight Switch	Headlight Section R
Lt.Grn 14 808 Dimmer Switch Headinght Switch Headinght Section A						
Tan 14 809 Dimmer Switch High Beam Headlight Section A Low Beam Headlight Section A					_	
Tan 14 607 Dininki Switch Low Deali Headinghi Section A	1 411	14	009 	Diffiniti Switch	LOW Deam	

 Table 6.3
 50002 Wire Connection Index, 1 of 2

Color	Ga.	No.	Connect To:	Comes From:	From Section:
IGNITIO	N SW	/ITCF	I SECTION		
Pink Brown ⁸ Orange Red Purple ⁵	14 18 18 12 12	831 832 833 834 819	Ignition Switch Coil B+ ⁷ Ignition Switch Accy. B+ ⁷ Ignition Switch Accy. B+ ⁷ Ignition Switch B+ Ignition Switch Start ⁷	Fuse Block* Accy. Power Relay* Fuse Block* Fuse Block* Starter Solenoid	(Fuse Block) Engine Section A
Black	14	860	Ground	Fuse Block	Engine Section 71
INSTRUM	MEN	ΓPAN	NEL SECTION		
Red/Wht Green Lt.Blue Blue Brown Pink Lt.Grn Lt.Blu/Blk Ppl/Wht	18 18 18 18 18 18 18 18	835 836 837 838 830 839 821 822 823	Radio & Gauges B+ High Beam Indicator Left Turn Indicator Right Turn Indicator Instr.Panel Lighting Fuel Gauge Temperature Gauge Oil Pressure Gauge Tachometer	Fuse Block* Dimmer Switch* Left Front Turn Signal* Right Front Turn Signal* Headlight Switch Fuel Sending Unit Temp.Sending Unit Oil Pres.Sending Unit Tachometer Source	Dimmer Switch Section Turn Signal Section Turn Signal Section Headlight Section B Tail Section Engine Section A Engine Section A Engine Section A
TAIL SE	CTIO	N			
White Green Ylw/Wht Green ³ Yellow Pink Brown Orange	14 18 14 14 18 18 14 18	845 848 847 863 849 839 829 850	Dome Lights B+ Right Rear Turn Signal Fuel Pump #1 B+ Fuel Pump #2 B+ Left Rear Turn Signal Fuel Sending Unit Tail Lights Third Brake Light	Fuse Block* Turn Signal Switch Fuel Pump #1 Switch Fuel Pump #2 Switch Turn Signal Switch Fuel Gauge Headlight Switch Turn Signal Switch*	Turn Signal Section Accy. Section Switches Accy. Section Switches Turn Signal Section Instr. Panel Section Headlight Section B Turn Signal Section
TURN SI	GNA	L SEC	CTION		
Brown Purple Black Green Yellow Blue White Lt.Blu	14 14 18 18 18 18 16 18	851 852 853 848 849 825 818 826	Emergency Flasher Switch B+ Turn Signal Switch Flasher B+ Horn Switch Ground Turn Signal Switch	Emergency Flasher* Turn Flasher* Horn Relay* Right Rear Turn Signal Left Rear Turn Signal Right Front Turn Signal Brake Switch Left Front Turn Signal	Fuse Block Fuse Block Fuse Block Tail Section Tail Section Headlight Section A Engine Section A Headlight Section A

NOTES:

- 1. 2-color wires: 2nd color (stripe) may not be intense color. Observe two-color wires closely.
- 2. Wire has identification tag.
- 3. May be Orn/Blk in some kits.
- 4. From fuse block to turn signal switch. Brake switch B+ is taken from the turn signal switch.
- 5. This wire is cut and spade lugs have been installed so that your existing neutral safety switch circuit can be wired into your harness. The neutral safety switch is located at the base of General Motors and Ford steering columns and in Mopar transmissions. Do not attempt to defeat your automobile=s neutral safety switch. If your automobile does not have a neutral safety switch, please install one.
- Jumper this wire to Fuel Pump #2 Switch B+ to supply power. Not necessary if you are using a 50201/50202 Switch Panel.
- 7. These wires are connected to the 50201/50202 Switch Panel, if used.
- 8. This wire must be connected for the accessories in the fuse block to power up.

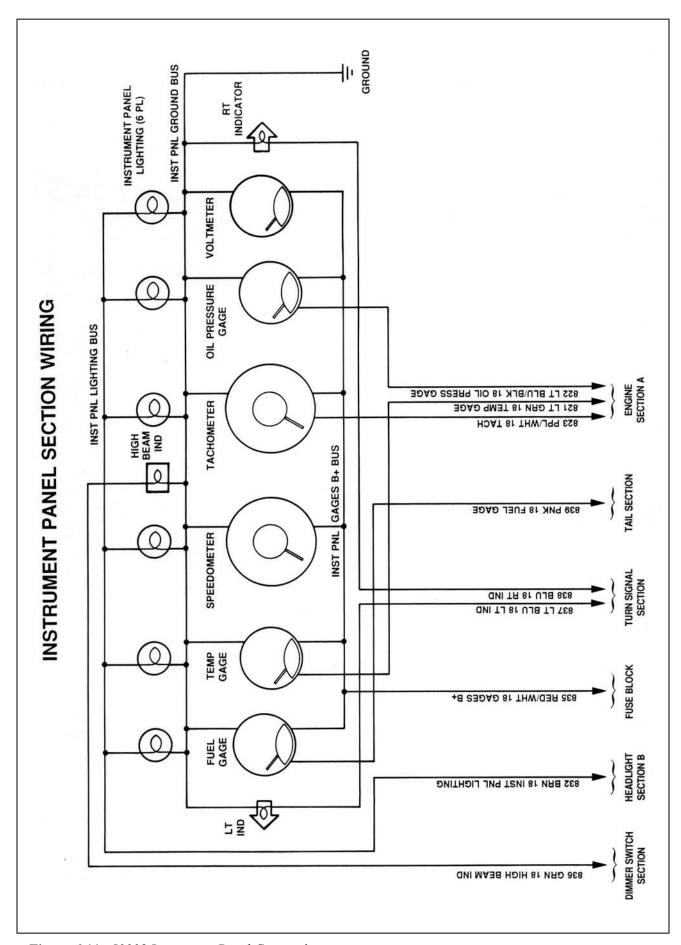


Figure 6.11 50002 Instrument Panel Connections

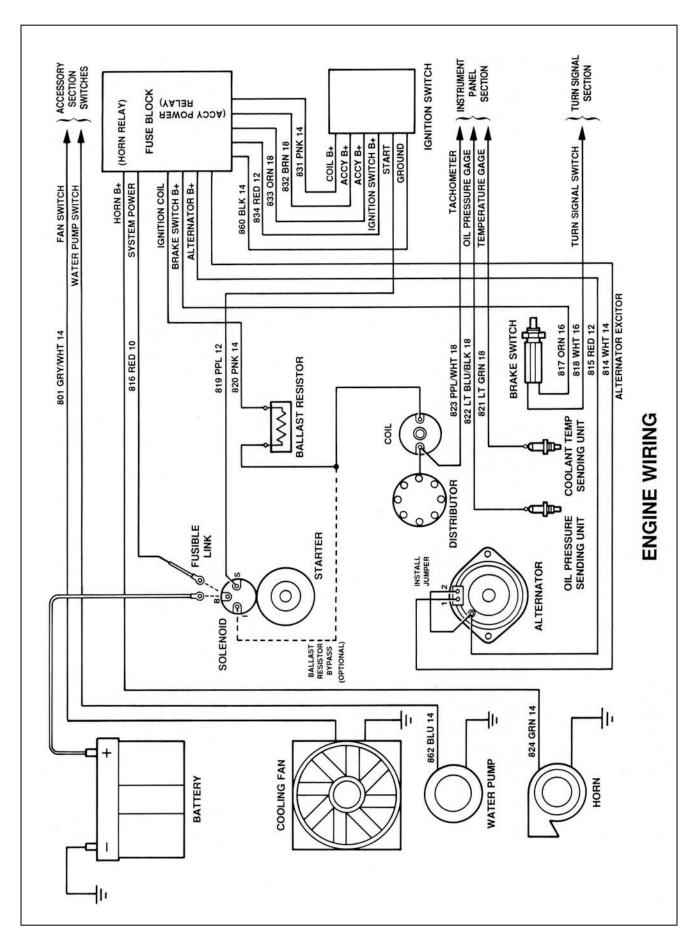


Figure 6.12 50002 Engine Section Connections

7.0 50001 8-CIRCUIT COMPETITION WIRE HARNESS KIT

The 50001 8-circuit relay-activated wiring system is designed to give maximum output with the utmost reliability. The relays enable the switches to activate the circuit with low current (amperage) requirements for extended life of the switches and the system.

7.1 CONTENTS OF THE 50001 WIRE HARNESS KIT

Take inventory to see that you have everything you're supposed to have in this kit. If anything is missing, go to the dealer where you obtained the kit or contact Perfect Performance Products, Inc. at (817) 244-6898. The 50001 Competition Wire Harness Kit should contain the following items:

- The main harness, with the fuse block wired in and fuses and relays installed.
- Spare fuses
- 1 fusible link (See **Figure 6.3**)
- 1 firewall grommet
- Parts box, containing terminals, splices, etc.
- 1 package nylon tie wraps
- Race Car Wire Harness Installation Instructions part number 90502 (this booklet)

7.2 INSTALLATION AND CONNECTIONS (Refer to Table 7.1)

Because PPPI incorporates uniform wire color coding and wire numbering, the detailed individual circuit connections provided in **Section 6.0** also apply to the installation of the 50001 8-Circuit system. See **Table 7.1**.

If you have not already done so, read **Sections 4.0** and **5.0** of these instructions and think through the installation of the harness kit before securing or cutting any wires.

7.2.1 General

- A. Mount the 50001 Fuse/Relay Block in the desired interior location and route the INSTRUMENT PANEL SECTION (tagged wires) toward the 50201 or 50202 Switch Panel, if used, or toward the dash. Again, see **Section 6.0** for individual circuit details. Cut individual wires to length and terminate them to the proper locations according to **Table 7.1**.
- B. Route the ACCESSORY SECTION B+ to the Water Pump, Fuel Pumps, Ignition, etc., according to **Table 7.1**. Route 10-gauge wire #816 (red) to the Battery POSITIVE (+) terminal or the Starter Solenoid BATTERY terminal to provide power to the system. Install the Fusible Link or Maxifuse (**Figure 6.3**) between the battery source and the end of the 10-gauge Red wire for system protection. Refer to **Section 6.0** as needed.
- C. If you are not using a second fuel pump, INSTRUMENT PANEL SECTION wire #868 (grn) can be used to switch any other accessory, which would receive power through ACCESSORY SECTION B+ wire #863 (grn).

7.2.2 If you are NOT using a 50201/50202 Switch Panel

- A. In the INSTRUMENT PANEL SECTION, connect wire #828 (blu/ylw) and #829 (brn) to the appropriate terminals of your Headlamp Switch. Wire #828 supplies power to headlamps by energizing the Headlight Relay, whereas wire #829 supplies power directly to tail lamps. If you are using a GM Headlamp Switch, see **Figure 6.10**.
- B. Connect Wires #833 (orn), #831 (pnk), and #819 (pur) to the appropriate terminals of your Ignition Switch. If you are using a GM-keyed Ignition Switch, see **Figure 6.5**. Wire #833 supplies power to the accessory of your choice, switched through the Ignition Switch. Wire #819 is the Starter Solenoid START, and wire #831 is the Ignition Coil (RUN) wire.
- C. Wire #867 (red) is constant 12 VDC (B+). It is used to supply power to the switches of the 50201/50202 Switch Panel. If you are not using a Switch Panel, connect wire #867 to the B+ side of the switches you are using to activate the relays in the system.

7.2.3 If you ARE using a 50201/50202 Switch Panel

- A. The 50201/50202 Switch Panel can be thought of as taking the place of several switches normally mounted in the dash, including the Ignition Switch. All INSTRUMENT PANEL SECTION wires EXCEPT 18-gauge wire #867 (red) and 14 gauge wire #829 (brn) energize their respective relays which in turn connect power to the various accessories (water pump, fuel pump(s), starter solenoid, etc.)
- B. Connect 18-gauge wire #867 (red) to Switch Panel 12-gauge wire #770.
- C. Switch Panel 18-gauge wire #732 (brn) is not used with the 50001 Wire Harness Kit.

7.3 WIRE CONNECTION INDEX AND FUSE REQUIREMENTS

10 30 15 20 20 15 15 20 No.	Connect To EL SECTION
15 20 20 15 15 20 No.	
20 20 15 15 20 No.	
20 15 15 20 No.	
15 15 20 No.	
15 20 No.	
20 No.	
No.	
PANE	EL SECTION
867	Switches Power Source
829	Headlamp Sw. (Tail)
833	Ign. Sw. Accy.
861	Fuel Pump #1 Switch
868	Fuel Pump #2 Switch
864	Water Pump Switch
	Ign. Sw. RUN
	Cooling Fan Switch
	Ign. Sw. START
Headla	llamp Sw. (Headl)
sely.	
	864 831 806 819

 Table 7.1
 50001 Wire Connection Index and Fuse Requirements

7.4 RELAY PLACEMENT See Figure 7.1.

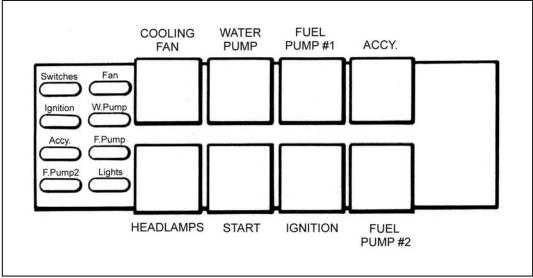


Figure 7.1 50001 Relay and Fuse Placement

8.0 50201/50202 8-CIRCUIT SWITCH PANEL

8.1 CONTENTS OF THE SWITCH PANEL KIT

Take inventory to see that you have everything you're supposed to have in this kit. If anything is missing, go to the dealer where you obtained the kit or contact Perfect Performance Products, Inc. at (817) 244-6898. The 50201/50202 Switch Panel Kit should contain the following items:

- The 50201 Switch Panel (to be mounted in-dash) or the 50202 Switch Box (for exterior mounting).
- 4 mounting screws
- 2 (3-pin) connector housings: 1 male (plug) and 1 female (jack)
- 2 (9-pin) connector housings: 1 male (plug) and 1 female (jack)
- 12 mating female electrical contacts for the connectors. The male contacts are pre-installed.
- 1 grommet (50202 ONLY)
- 3 cap plugs (50202 ONLY) to fill unused holes.
- Race Car Wire Harness Installation Instructions P/N 90502 (This booklet)

8.2 INSTALLATION AND CONNECTIONS (Refer to Table 8.1)

If you have not already done so, read **Sections 4.0** and **5.0** of these instructions and think through the installation of the harness kit before securing or cutting any wires.

8.2.1 50201 Switch Panel. See Figure **8.1**.

- A. Mount the Switch Panel in the desired location by drilling holes in the dash to suit your needs. Four (4) mounting screws are provided.
- B. Insert the terminated wires into the two (2) Connector Jacks provided according to **Table 8.1**. Be sure you have threaded the wires through any holes and grommets before installing the connectors. The electrical contacts are almost impossible to remove without damage once they have been inserted into the connector body.
- C. Using the proper crimping tool, install the receptacle contacts onto the wires of the main harness according to **Table 8.1** and insert the contacts into the two (2) Connector Plugs provided.
- D. Connect the Switch Panel to the main harness and perform an operational check. Refer to **Section 5.5**.

8.2.2 50202 Switch Box. See Figure 8.1.

A. Mount the Switch Box in the desired location. Bolts or heavy screws are recommended.

Note: The box is pre-punched to allow the Switch Box wires to exit from any chosen side. The rubber grommet is provided to protect the wires as they exit from the box. Cap plugs are included to plug the remaining unused holes for a finished look.

- B. Attach the Switch Panel to the box with the four (4) screws provided, routing the wires out the
 - desired hole.
- C. Insert the terminated wires into the two (2) Connector Jacks provided according to **Table 8.1**. Be sure you have threaded the wires through any holes and grommets before installing the connectors.

Note: The electrical contacts are almost impossible to remove without damage once they have been inserted into the connector body.

- D. Using the proper crimping tool, install the receptacle contacts onto the wires of the main harness according to **Table 8.1** and insert the contacts into the two (2) Connector Plugs provided.
- E. Connect the Switch Panel to the main harness and perform an operational check. Refer to **Section 5.5**.

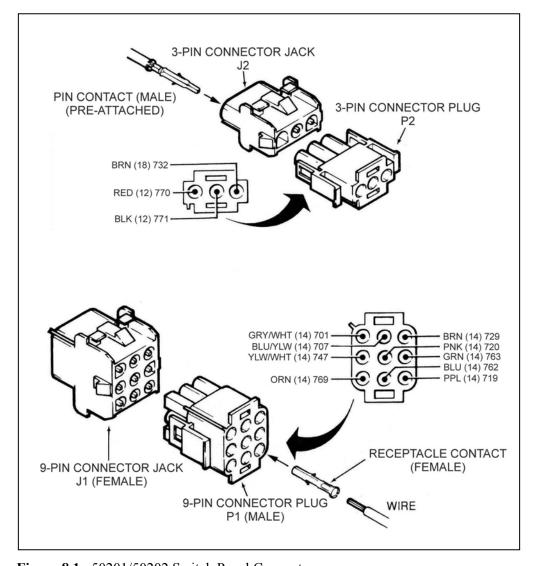


Figure 8.1 50201/50202 Switch Panel Connectors

8.2.3 If you are using the 50001 8-Circuit Competition Wire Harness

- A. 18 ga. wire #732 (brn) is not used, and should be capped and stowed.
- B. All of the 14 gauge wires of the Switch Panel connect to and match color-for-color (but not number-for-number) to the wires of the 50001 INSTRUMENT PANEL SECTION.

8.2.4 Connecting the 50002 12-Circuit Pro-Street Harness and The 50201/50202 8-Switch Race Car Control Centers

Before connecting the 50002 harness and the 50201/50202 switch panel together, both the

50002

fuse panel and the 50201/50202 control panel should be mounted in their permanent locations. See Instruction Manual #90502, **Sections 4.0** and **5.0** for general mounting and harness routing instructions.

Note: The dimmer switch harness and the turn signal harness may need to be routed at this time. The "ignition switch section" jumper harness white 6-pin connector <u>must</u> be plugged into the main harness and the jumper harness routed to the switch panel before that harness can be terminated to the 60101/60102. Failure to do this could result in wires being cut too short.

The wires in the two sections below must be removed from the designated section of the 50002 harness, routed to the 50201/50202 panel, re-terminated, and installed in the white 9-pin connector as per the diagram.

<u>50002</u>				50201/50	<u>0202</u>		
Color	Ga.	No.	Connect To	Color	Ga.	No.	Connect To
Grn	14	863	Fuel Pump #2	Grn	14	763	Fuel Pump #2
Blu	14	862	Elec. Water Pump	Blu	14	762	Elec. Water Pump
Ylw/Wht	14	847	Fuel Pump #1	Ylw/Wht	14	747	Fuel Pump #1
Gry/Wht	14	801	Cooling Fan	Gry/Wht	14	701	Cooling Fan
			HEADLIGHT	SECTION B	3 +		
Blu/Ylw	14	807	Headlights	Blu/Ylw	14	707	Headlights
Brn	14	829	Tail Lights	Brn	14	729	Tail Lights
			IGNITION SW	ITCH SECTI	ON		
Pnk	14	831	Ign. Switch RUN	Pnk	14	731	Ign. Switch RUN
Brn	18	832	Fuse Block Relay	Brown	18	732	Fuse Block Relay
Orn	14	833	Ign. Switch Accy.	Orn	14	769	Ign. Switch Accy.
Red	12	834	Switch Panel B+	Red	10	770	Switch Panel B+
Pur	12	819	Ign. Switch START	Pur	14	719	Ign. Switch START
Blk	14	860	Ground	Blk	12	771	Ground

Table 8.1 50002 and 50201/50202 Wire Connection Index

As noted in the diagram, there is one 9-pin connector and one 3-pin connector. The easiest way to assure proper connection is to carefully study the connector diagram. The pin locations for each wire in the connectors is listed there.

Note: The pins and the white connectors can be installed improperly. They are difficult to change once installed. The female white connectors are used with the male terminals on the 50201/50202 side, and the male white connectors are used with the female terminals on the 50002.

Terminals are already installed on the 50201/50202, and all you have to do is cut the wires coming from the 50002 harness to match up. Install the female white connectors on the male terminals of the 50201/50202 harness as per the pin locations in the diagram. Match up colors and ID numbers in the 50201/50202 connector with the colors and wire ID

the wire colors and ID numbers in the 5020 numbers on the the 14 and 18-gauge brown wires. Terminate and install them in the proper pin locations of the male in the corresponding connector. Make sure the

50002 harness, double-checking the locations of the female terminals on the 50002 harness 9-pin and 3-pin connectors, and install them connectors are properly seated.

8.3 50201/50202 Wire Connection Index

Color	Ga.	No.	Connected To	Color	Ga.	No.	Connected To
Red	12	770	Panel Input (B+)	Ylw/Wht	14	747	Fuel Pump #1
Blk	12	771	Ground	Brn	14	729	Tail/Park Lights
Blu/Ylw	14	707	Headlamps/Dimmer Sw.	Grn	14	763	Fuel Pump #2
Blu	14	762	Water Pump	Gry/Wht	14	701	Cooling Fan
Pnk	14	731	Ignition Coil	Orn	14	769	Accessory
Pur	14	719	St.Solenoid START	Brn	18	732	Fuse Block Relay
							(Used w/50002 only)

Table 8.2 50201/50202 Wire Connection Index

9.0 50101 REPLACEMENT FUSE BLOCK

The 50101 is a replacement Fuse Block for individuals wanting to update their current fuse block to increase current capabilities and provide the fused circuits needed for racing applications. This is the ideal unit for the vehicle owner who races but wants to stay street legal.

9.1 CONTENTS OF THE 50101 REPLACEMENT FUSE BLOCK KIT

Take an inventory to see that you have everything you're supposed to have in this kit. If anything is missing, go to the dealer where you obtained the kit or contact Perfect Performance Products, Inc. at (817) 244-6898. The 50101 Replacement Fuse Block Kit should contain the following items:

- The 50101 12-Circuit Fuse Block, with fuses installed.
- 2 Flashers
- 1 Fusible Link (See **Figure 6.3**)
- Assorted terminals
- Race Car Wire Harness Installation Instructions P/N 90502 (This booklet)

9.2 INSTALLATION AND CONNECTIONS

A. Find a suitable location (possibly where previous fuse block was located) and attach Fuse Block Mounting Bracket using the holes provided.

B. Connect the Windshield Wiper Switch hot wire to the WIPER B+ terminal (Blu).

Note: The wire color coding noted in each step is the color of the wires at the 50101 Fuse Block.

The color coding of your vehicle's wiring may not be the same. "B+" means "Battery Power."

C. Connect the Cooling Fan Switch **hot** wire to the EL FAN B+ terminal (Gry/Wht).

Note: Your vehicle may not have an Cooling Fan Switch. It may instead have a Cooling Fan Thermostat (usually located on the lower end of the radiator) or be directly wired so that the cooling fan runs whenever the ignition is on.

- D. Connect the Alternator Ignition (Exciter) wire to the ALT IGN B+ terminal (Wht). This wire provides power to the alternator when the ignition is on. See **Figure 6.1** for externally-regulated alternators and **Figure 6.2** for internally- regulated "one-wire" alternators.
- E. Connect the Alternator Battery Post wire to the ALT BAT POST terminal (Red).
- F. Connect the System **hot** wire to the POSITIVE Battery Post or Starter Solenoid **hot** terminal (Red).

Note:Be sure to install the Fusible Link (**Figure 6.3**) between the end of the Red wire and the Battery or Solenoid for overall protection.

- G. Connect the Brake Light Switch **hot** wire to the STOP B+ terminal (Orn).
- H. Connect the Ignition Ballast Resistor OR Coil wire to the coil/DIST terminal (Pnk).

Note: This is NOT a choice between two wires. Your vehicle either has an /ignition Ballast Resistor, or it does not.

- I. Connect the Water Pump Switch (or, if unswitched, the Water Pump) **hot** wire to the WATER PUMP terminal (Orn/BIk).
- J. Connect the Horn **hot** wire to the TO HORN terminal (Grn).
- K. Connect the Headlight Switch **hot** wire to the LIGHT B+ terminal (Red/BIk).
- L. Connect the Ignition Switch RUN wire to the IGN SW coil terminal (Pnk).

Note: The wire normally routed from the ignition switch "RUN" terminal to the coil or the ignition ballast resistor has been cut in half to go through the fuse in the Fuse Block. This has been done for two reasons. First, it provides a fused ignition circuit for electronic fuel injection systems. Second, it provides a theft deterrent when the coil fuse is removed, disabling the ignition circuit.

- M. Connect the Ignition Switch ACCESSORY wire to the IGN SW B+ terminal (Brn). This wire powers up the accessory side of the fuse block independent of the ignition switch.
- N. Connect the Ignition Switch **hot** wire to the BAT FEED terminal (Red).
- O. Connect the Dash Panel Instrument and Warning Light **hot** wire to the Gauges B+ terminal (Red/Wht). You may also connect your Radio **hot** wire to this terminal.
- P. Connect the Dome/Interior Light and/or Trunk Light + 12V Feed wire to the DOME B+ terminal (Wht).
- Q. Connect the Fuel Pump Switch (or, if unswitched, the Fuel Pump) **hot** wire to the FUEL PUMP terminal (Ylw/Wht).
- R. Connect the Hazard Flasher Switch **hot** wire (from the steering column) to the HAZARD B+ terminal (Brn). The Hazard Flasher is built into the circuit at the 50101 Fuse Block.
- S. Connect the Turn Signal Switch Flasher **hot** wire to the TURN SW B+ terminal (Pur). The Turn Signal Flasher is built into the circuit at the 50101 Fuse Block.
- T. Connect the Horn Switch wire (in steering column or from external button) to the HORN SW terminal (Blk). This wire, when grounded, activates the Horn Relay in the 50101 Fuse Block.
- U. The IGN SW ACCY and IGN ACCY 1 terminals are provided for **switched power** needs such as Trans Brake, Line Lock, N.O.S., or other fused ignition requirements.