



# **PAINLESS**

PERFORMANCE PRODUCTS

*PRODUCT  
CATALOG*



*Street*



*Race*



*Offroad*

1990-2011  
**21**  
YEARS OF  
EXCELLENCE  
**PAINLESS**

2011

# *Much More Than Circuits And Wires*

*Dear Painless Customer,*

*Thank you for your interest in Painless Performance.*

*In 2011 we celebrate our 21st year of producing the highest quality electrical products for the street rod, off-road, muscle car and racing markets. We've come a long way in that time - from a producer of a single 18-circuit wiring harness to a diverse manufacturer of over 400 products ranging from the simplest relays to highly complex fuel injection systems. Over the years we have been honored with three Best New Product awards from the Specialty Equipment Market Association (SEMA) along with seven Runner-up awards and have twice been recognized as Manufacturer of the Year by the Performance Warehouse Association at the annual SEMA awards banquet.*

*But the greatest award we could ever receive is the loyalty of our customers. We believe that by making a quality product that lives up to your expectations, you'll keep coming back to Painless for your electrical needs. That seems to be working as we constantly hear from people at the dozens of enthusiast events we attend throughout the year about how they only use Painless in their project vehicles.*

*Like you, we love automobiles and the whole automotive culture. We're proud to be associated with the finest people to be found anywhere - the hobbyists, the artists, the racers and daredevils and, yes, the patriots who keep alive America's love affair with the automobile.*

*Sincerely,  
Adrian J. Murray  
President*





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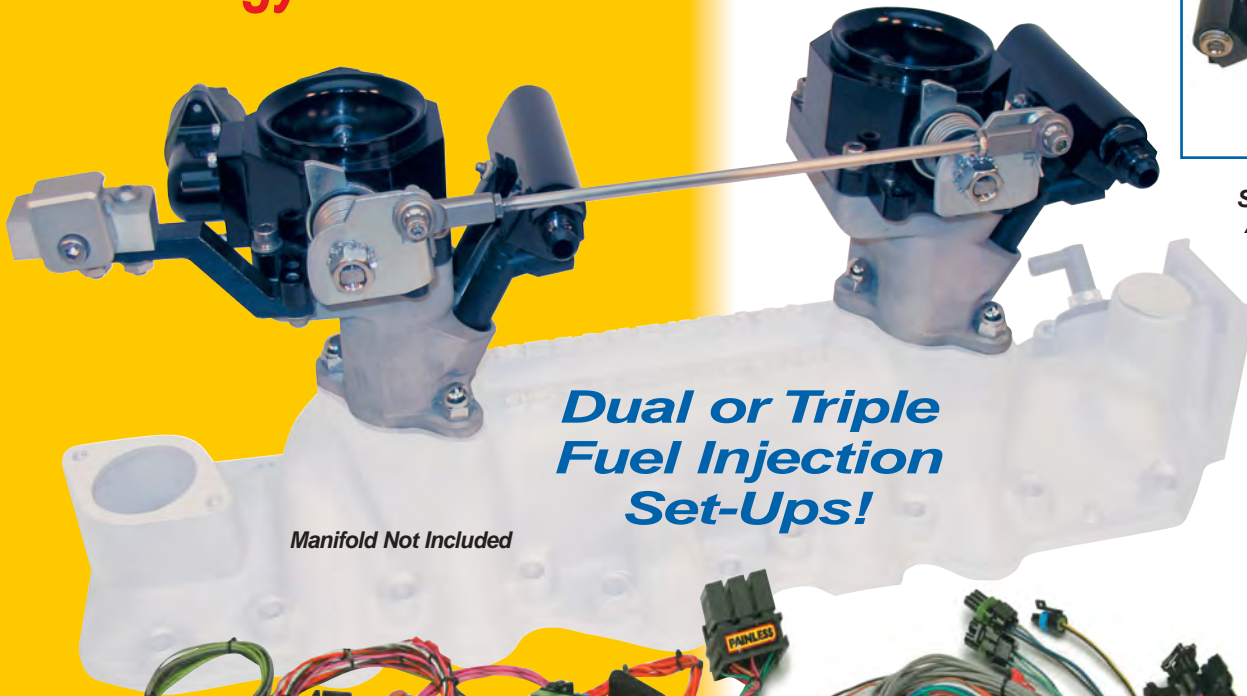
**PAINLESS**®

**PERFORMANCE PRODUCTS**

A DIVISION OF PERFECT PERFORMANCE PRODUCTS, LLC

**PERFECT™**

*Technology Meets Tradition*



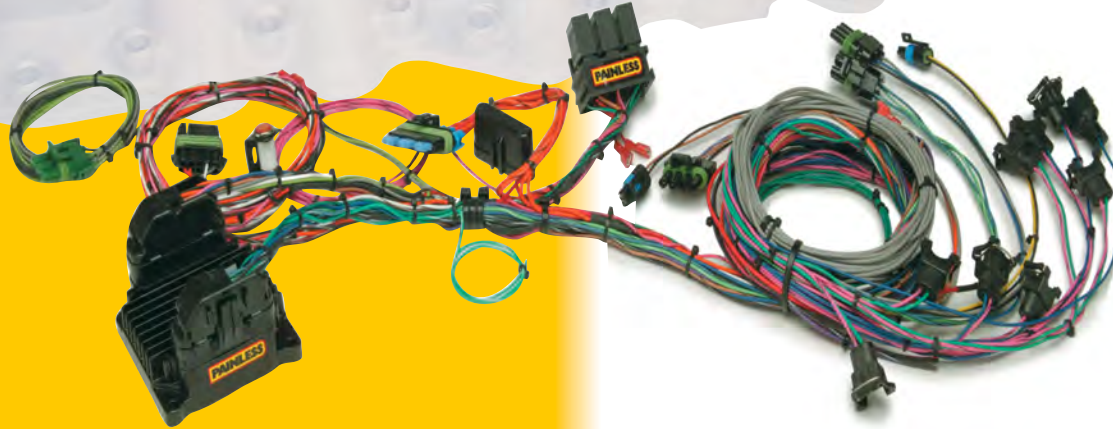
Manifold Not Included

*Dual or Triple  
Fuel Injection  
Set-Ups!*



Standard 2-5/8"  
Air Filter Base

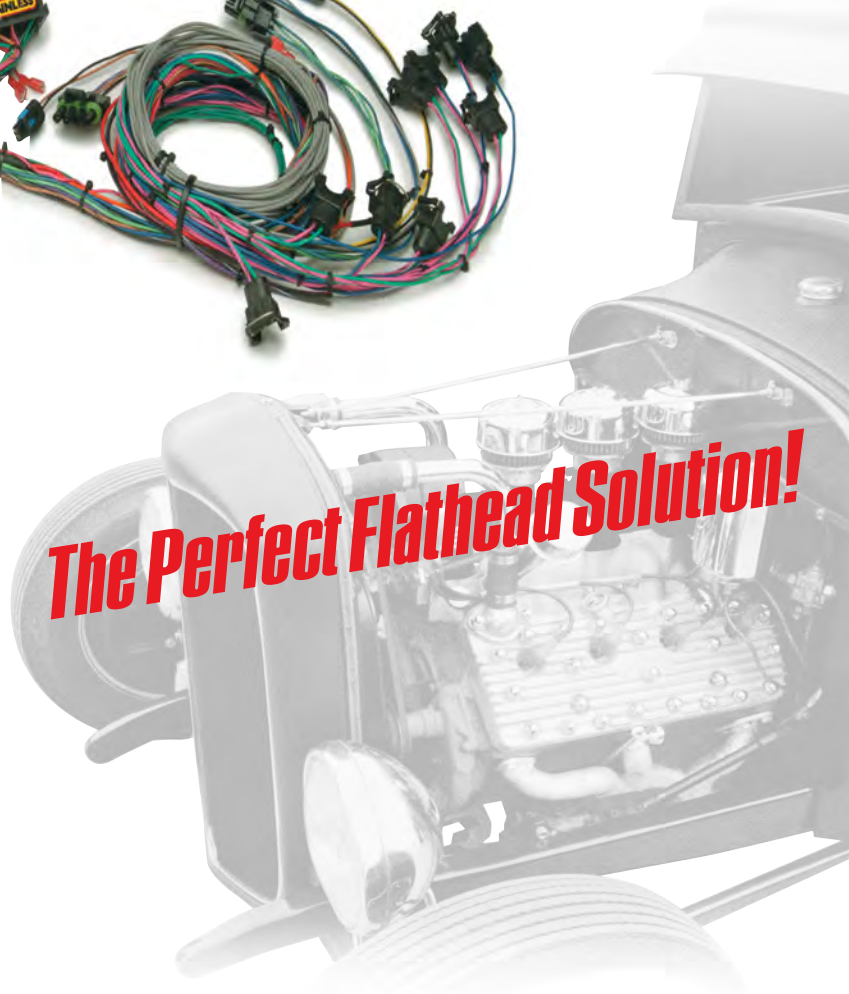
Made With Pride  
In The USA



**PERFECT EFI SYSTEM  
FOR FORD FLATHEADS**

Add power and efficiency to Ford Flathead engines with these PERFECT EFI kits. Available for both 2 and 3 deuce manifolds on all 1949-53 flatheads ('38-'48 coming soon), these systems include the required number of throttle bodies, throttle body to manifold adapters (for Stromberg pattern), fuel line, fuel rails, linkage, wiring harness, ECM with base calibration and programming software for custom calibration.

- 1949-53 Ford Flathead 2 Deuce (Black) EFI System **#65257**
- 1949-53 Ford Flathead 3 Deuce (Black) EFI System **#65258**
- 1949-53 Ford Flathead 2 Deuce (Silver) EFI System **#65259**
- 1949-53 Ford Flathead 3 Deuce (Silver) EFI System **#65260**



**The Perfect Flathead Solution!**



**Bolt-On  
LSx Power  
Builder**

## PERFECT™

**Bolt-On  
Power  
Builder**



**Big Power  
Needs  
Big Fuel  
Delivery**

### PERFECT HI-VELOCITY 95 MM LS2, 3, 7 MECHANICAL THROTTLE BODY

The PERFECT HI-VELOCITY mechanical throttle body is polished black anodized billet aluminum for good looks and corrosion resistance. The throttle cable mechanism is located on the driver's side of the throttle body for a clean installation. Throttle body uses an LS1 Throttle Position Sensor (TPS) and Idle Air Control Motor (IAC).

**#65303** – LS2, 3, 7 Mechanical Throttle Body

### HI-VELOCITY THROTTLE BODIES FOR 4.0L JEEP

Designed for 1991-04 Jeep 4.0L engines, these new throttle bodies from Painless offer improved horsepower and performance. Most stock Jeep throttle bodies are 55.5 mm at the outlet and 2.5" at the inlet and flow approximately 400 CFM. This severely restricts potential power gains from other engine modifications. The 62 mm throttle body helped create 203 hp and 235 lbs-ft of torque when combined with a PERFECT Hi-Torque Engine Management system. That's 23 hp and 15 lbs-ft gain over stock, all while getting 19 mpg highway and 16 mpg city.

**#65300** - 62 mm 600 cfm 4.0L Jeep Throttle Body

**#65301** - 68 mm 730 cfm 4.7L Jeep Throttle Body

### PERFECT FLOW FUEL DELIVERY SYSTEM

The PERFECT FLOW Fuel Delivery System is a dual pump system designed to provide sufficient fuel flow for 500 plus horsepower engines. Good for up to 1000 horsepower. Can also be configured as a main and secondary fuel pump system for a maximum dependability in racing, off road, and street applications.

**#65100** – PERFECT FLOW Fuel Delivery System

**NOTE:** Not compatible with E85 fuel

**PHANTOM KEY PUSH BUTTON START**

Want to add the cool new technology of keyless ignition to your old hot rod, muscle car or 4X4? Here's your best option for both added security and this new creature comfort from the automotive aftermarket world.

The Painless Phantom Key allows for the total replacement of most current ignition switches. Simply remove your existing ignition switch, install the backlit stainless pushbutton and allow the Phantom Key's Module/Relay center do all the work for you. Plus it adds options such as a trunk popper channel, door lock and unlock, dome light on and off along with the added security of not having any key tumblers for a thief to pick.

When you are more than 20 feet away from your vehicle, the LED backlit push button switch will blink showing there is a security device in the vehicle, warding off potential thieves.

When you are within 20 feet of your vehicle, the blinking LED will turn solid. Push the unlock button on the key fob to unlock your doors, climb into the vehicle, push the brake pedal and finally push and hold stainless Phantom Key button to start the engine.

The key fobs have both lock and unlock buttons which function as follows: Pushing and holding the lock button will trigger the 3rd channel to pop the trunk or turn the dome light on and off. Pushing and releasing the lock button will only lock the doors and pushing and releasing the unlock button will unlock the doors.

The key fobs can be programmed to be in what's called "automatic mode" which is where the system will automatically enable when the fob is within about 20 feet of the vehicle OR they can be programmed to be in what's called "manual mode" where the unlock key must be pushed to enable the system.

- 55000** – Phantom Key Push Button Start  
w/Stainless White Backlit 22mm Switch
- 55001** – Phantom Key Push Button Start  
w/Stainless Blue Backlit 22mm Switch
- 55002** – Phantom Key Push Button Start  
w/Stainless Red Backlit 22mm Switch
- 55003** – Phantom Key Push Button Start  
w/Stainless Green Backlit 22mm Switch
- 55004** – Phantom Key Push Button Start  
w/Stainless Orange Backlit 22mm Switch
- 55005** – Phantom Key Push Button Start  
w/Stainless Yellow Backlit 22mm Switch



**NEW!**



Made With Pride  
In The USA



**NEW!**



See Other Fan Control Options On Page 44

**NEW!**

## PERFECT™

### PERFECT TORC

#### TRANSMISSION CONTROLLER FOR 4L60/65E AND 4L80/85E

**66501** - This stand alone transmission controller handles the four speed overdrive GM electronically controlled 4L60/5E and 4L80/5E transmissions and can be used with any fuel injected or carbureted application, gas or diesel. It uses a laptop interface to calibrate shift points and line pressures. A VSS output is included for EFI swaps and aftermarket speedometers. Allows for paddle shifting and has two separate shift tables for both street and performance shifting.

Ford and Chrysler applications available in the near future.

#### F5 DUAL FAN CONTROLLER

**#30140** - Electric cooling fans have become a mainstay when it comes to keeping any type of vehicle's engine cool. This new state-of-the-art fan control system is rated to control two 35 Amp cooling fans. Controller features include dual cooling fan control from 50% up to 100%; A/C compressor override that runs the fans at 100% duty cycle if air conditioning is kicked on. The F5 control system includes an underhood rated solid-state pulse-width modulator controller, a 3/8 NPT threaded temperature sensor, large gauge fan wires and a labeled vehicle integration wire harness, mounting hardware and a 70 amp fuse and connectors. Kit also includes a three position toggle switch that gives you manual control of the cooling fans: Position one is 100% fan on, Position two is normal operation, Position three is 0% fan or fan off. Also included is a push button switch used to set the vehicle speed at which you want the cooling fans to shut off. Complete illustrated installation manual included.

**#30142** - F5 Dual 35 Amp Fan PWM Controller w/Metric Sensor. Same as 30140 with a metric 12x1.5MM for Gen III and Gen IV engines.

#### F5 SINGLE FAN CONTROLLER

**30141**- Controls one 70 AMP electric fan. Fan is pulse width modulated to operate between 50%-100% to control coolant temperatures. Fan operates same as 30140 otherwise.

**#30143** - F5 Single Fan Controller w/Metric Sensor. Same as 30141 with a metric 12x1.5MM for Gen III and Gen IV engines.



## THE PERFECT CHOICE

Back in 2005 Painless introduced the hugely successful **PERFECT Engine Management Systems**. By finely calibrating the air/fuel ratio, spark advance and injector pulse width every 50 RPM from off-idle to WOT we were able to optimize the performance and power available in each engine. Not a single horsepower was left on the table and the drivability of a **PERFECT** powered engine was a real breakthrough in engine management technology.

2006 saw the introduction of our first **PERFECT HI-RPM System** (see page 8) which includes a roller camshaft and a custom tuned ECM. For those looking for increased power from their engine, **PERFECT HI-RPM** offers guaranteed performance without the need for reprogramming the ECM. Our LS1 system delivers 409 HP and 407 lbs/ft of torque – a 38 hp increase over stock. The new LT1 system produced 370 HP and 387 lbs/ft of torque. That's a 45 HP gain over stock. No tinkering, no dialing, no calibrating. Just install the camshaft and plug the system in.

But what about modifying your engine's hardware? Some people want to do their own thing – play around with compression, headers, rocker ratio, spring tension – any number of things. If that's you, then a preprogrammed ECM won't fit the bill. You'll need an ECM with a whole range of programming possibilities. That's where our **PERFECT Perfection Software** (see page 8) and the **Engine Management Systems** come in.

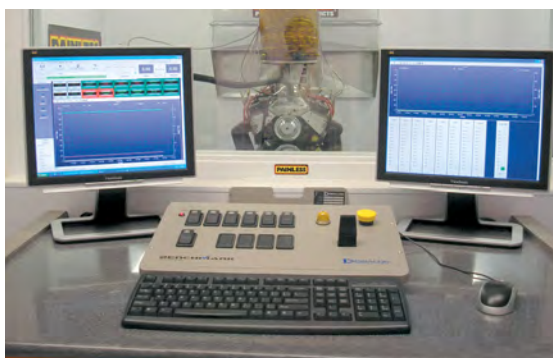
**PERFECT Perfection Software Kits** now allow you to custom tailor the **PERFECT** ECM to take maximum benefit from such engine hardware upgrades as a bigger cam, larger displacement engines, larger throttle body or custom cylinder heads, right from your own laptop.

The following pages show you all the features and benefits of these systems. Whatever your needs are and whichever you select, when it comes to fuel injection engine management, Painless is your perfect choice.

## PERFECT™

### Engine Management Systems

As Detroit's engines become more and more sophisticated precisely balanced management calibrations have become more critical. For the engine transplant enthusiast the need for an equally sophisticated aftermarket engine controller has become critical. Because every installation situation will be different, a cookie-cutter approach just won't do. A one-size-fits-all solution is just not acceptable. That's where the Painless **PERFECT EMS** makes it painless.

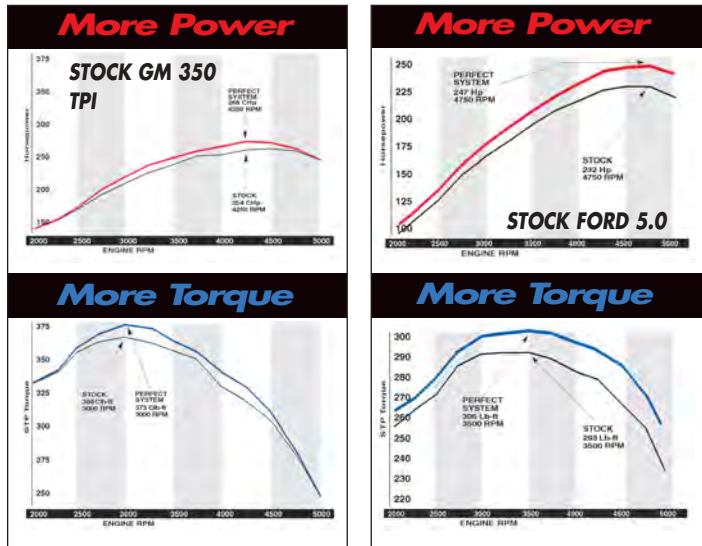


**The PERFECT Systems Are Engineered And Tested On Our Own Dyno For Maximum Performance, Reliability And Ease Of Installation.**





### Check Out The Power Gains On These Stock F.I. Engines!



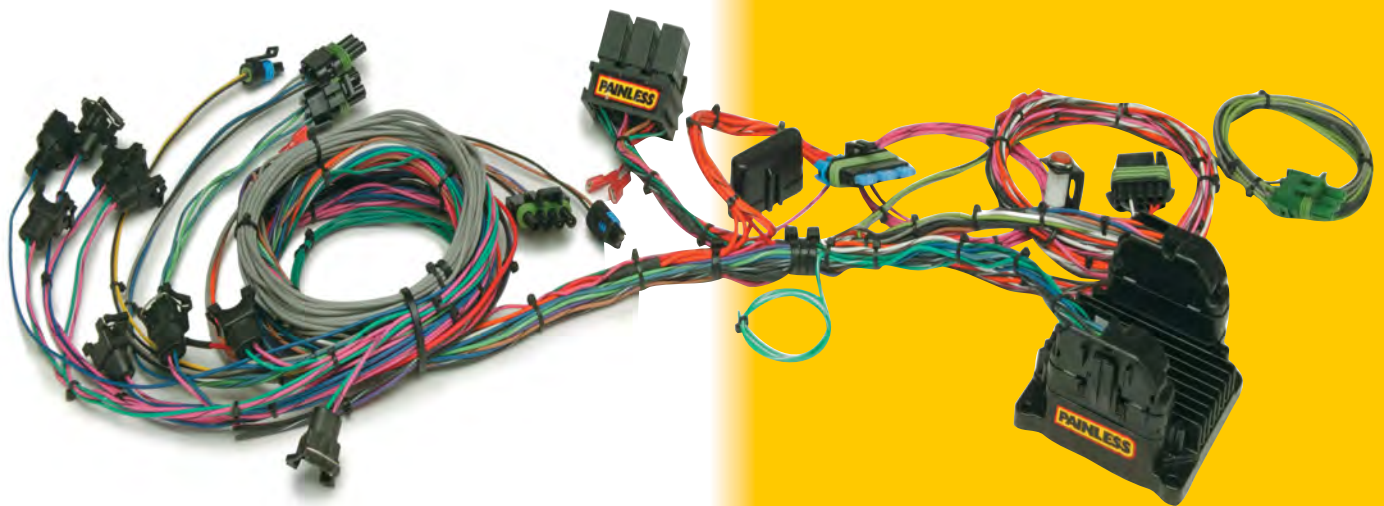
# PERFECT™

**OUR BASE ECM/HARNESS KIT IS THE SIMPLEST WAY TO INSTALL THE POWER AND RELIABILITY OF ELECTRONIC FUEL INJECTION**

The Painless PERFECT Engine Management System has proven to be the ideal ECM / Harness package for the simple installation of a complete stock fuel injected crate or donor engine into a classic or specialized vehicle. All the engineering has been done to provide a straightforward installation - just mount and plumb the engine into your vehicle then plug the PERFECT System's harness into the F.I. connectors and fire it up.

### THE FIRST ECM PACKAGE TO OPTIMIZE STOCK FUEL INJECTION ENGINES

Each PERFECT System kit is designed for a specific engine application. Plus we have dyno tested each application and pre-programmed the ECM to deliver the optimum power the stock engine package is capable of. You don't need to spend hours tuning or re-flashing the original computer.



**PERFECT System ECM and Harness Package.**

Made With Pride  
In The USA



**PERFECT™**

**Hi-RPM Management Systems**

**THE PERFECT HI-RPM ENGINE MANAGEMENT ECM, HARNESS AND CAM KIT**

Looking for more performance out of that fuel injected engine but still don't want to hassle with programming and guesswork? Simply install one of our proven PERFECT HI-RPM Engine Management Systems.

The camshaft is the heart of any engine. But in a speed density fuel injected engine, the role of the cam is even more critical. Change the cam without reprogramming the computer and the engine is guaranteed not to run correctly.

PERFECT HI-RPM Systems are the engineered solution. These kits include a wiring harness, a roller camshaft and a custom tuned PERFECT ECM for dramatic increases in horsepower and torque. We worked with our friends at Competition Cams to select the optimum cam profiles and we've done hours of dyno testing to come up with the ideal fuel and spark curves to squeeze every last horsepower and every foot pound of torque out of the engine. No user programming is needed.

**PERFECT™**  
*Perfection*

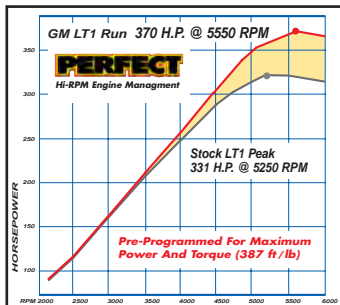
**WHEN STOCK IS JUST NOT ENOUGH THE PERFECT PERFECTION KIT IS THE SOLUTION**

You're ready for a bigger cam, adjustable rockers or custom heads? Even adding a big throttle body and high pressure injectors requires some tuning of the ECM mapping. These PERFECT Perfection System applications can be custom programmed with our CalTool™ software kit to optimize those types of engine hardware changes.

**TOTAL TUNING CONTROL**

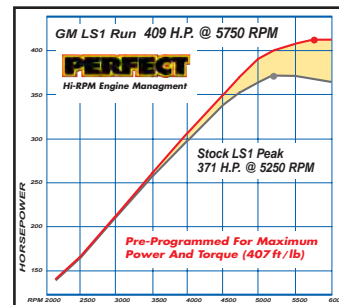
The PERFECTION CalTool™ software installed in your PC will allow infinite adjustments to spark curves and fuel management in 100 rpm increments of incredibly precise mapping. Easy to navigate screen charts (see at right) put the power in your hands to squeeze every bit of muscle out of your modified engine - no rocket science needed!

**The PERFECT ECM / Cam Kits Will Wake Up Your Stock F.I. Engine!**



Results Of Our LT1 Dyno Run

LT1 Baseline 331 H.P.  
LT1 PERFECT 370 H.P.



Results Of Our LS1 Dyno Run

LS1 Baseline 371 H.P.  
LS1 PERFECT 409 H.P.

**DYNO TESTED POWER GAIN**

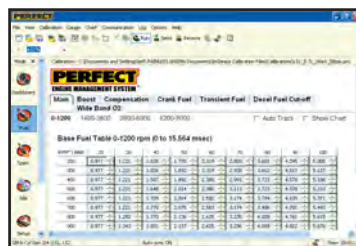
Our new PERFECT HI-RPM LS1 System delivered 409 horsepower and 407 lbs/ft of torque in our 1998 LS1 test engine and 370 horsepower in the LT1. That's about a 40 HP increase over the same engines with a stock ECM and cam.

**Typical PERFECTION CalTool display screens:**



**DASHBOARD**  
Displays real-time engine data

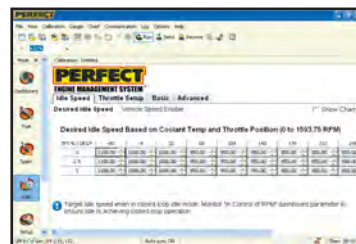
RPM, throttle position, engine temp, boost, air/fuel ratio



**FUEL SCREEN**  
Develop base fuel tables

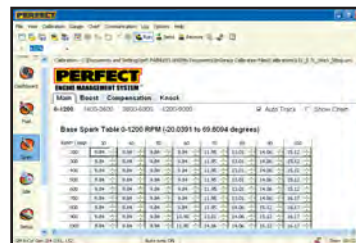
Fine tune all fuel levels: Transient fuel, Crank fuel, Base fuel

Permits precise air/fuel mix throughout the RPM range



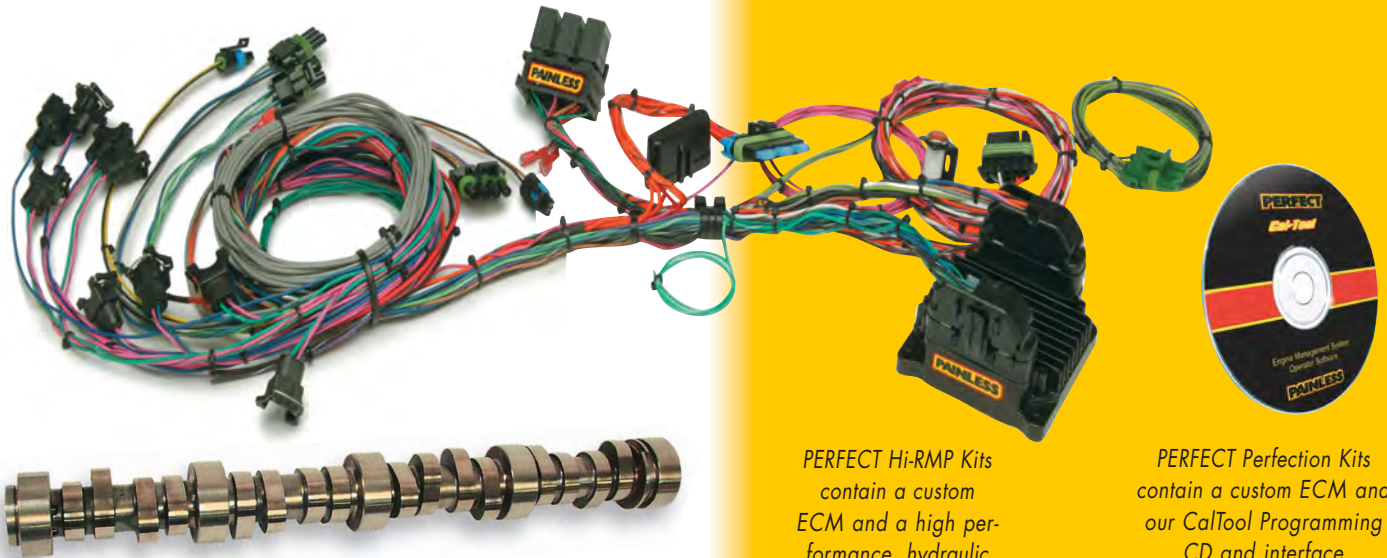
**IDLE SCREEN**  
Allows for precise idle speed adjustments

Dial in ideal cold start air/fuel ratio



**SPARK SCREEN**  
Allows for precision timing

Compensate for engine temp and load



PERFECT Hi-RPM Kits contain a custom ECM and a high performance hydraulic roller cam.

PERFECT Perfection Kits contain a custom ECM and our CalTool Programming CD and interface connection cables

### New Applications!

MAKE	YEAR	DONOR VEHICLE	ENGINE	RPO CODE	Perfect System P/N	Perfect System w/SOFTWARE	Special Notes:
GM	1985-1992	CAMARO/FIREBIRD	5.0L	LB9	65104 1	65246 2, 5	<p><b>1</b> - Base Calibrations included for both 305 and 350 Tuned Port Injection.</p> <p><b>2</b> - For all modified engines: Stokers, Heads, Camshaft, Rockers, Larger Throttle Bodies</p> <p><b>3</b> - Must use PERFECT Coil Kit P/N 60126 for 1996 and 1997 Model Years.</p> <p><b>4</b> - 65205 is a PERFECT HI RPM Kit with a Comp Camshaft P/N 07-502-8; Great streetable profile with a nice noticeable idle. Awesome mid range power, acceptable fuel economy and 2200 stall recommended.</p> <p><b>5</b> - This software kit will be necessary to fine tune your engine combo for your specific application. Idle speed, Cooling Fan On/Off Temps, Fuel/Spark, Acceleration Enrichment, etc are adjustable along with many other options.</p> <p><b>6</b> - Base Calibrations included for both Camaro/Firebird (26LB/HR) and Corvette (19LB/HR) injectors.</p> <p><b>7</b> - Manual Throttle Body applications only; if engine is from a Corvette a manual throttle body MUST be installed.</p> <p><b>8</b> - 65206 is a PERFECT HI RPM Kit with a Comp Camshaft P/N 54-426-11; Great streetable profile with a nice noticeable idle. Awesome mid range power, acceptable fuel economy and 2200 stall recommended.</p> <p><b>9</b> - Calibration for GM 5.3L is provided; if using a GM 4.8L or 6.0L tuning will be required; purchase of P/N 65253 is highly recommended for all.</p> <p><b>10</b> - This kit is for situations where an aftermarket throttle body is already on the engine.</p> <p><b>11</b> - This kit includes a PERFECT HI VELOCITY 1400 CFM throttle body that requires an LS1 IAC and TPS.</p> <p><b>12</b> - This kit includes a PERFECT HI VELOCITY 1400 CFM throttle body that requires an LS1 IAC and TPS and a Comp Cams Camshaft P/N 54-457-11. A valve spring kit from Comp Cams P/N 26926-16 is required.</p> <p><b>13</b> - Polished Black Anodized 1400 CFM Billet Throttle Body, LS2 and LS3 Mounting Flange</p> <p><b>14</b> - Calibration for a Ford 5.0L High Output engine provided; any other Ford 5.0L will require the 65250 kit with the PERFECTION tuning Software.</p> <p><b>15</b> - Same as the 65120 but has the later model round distributor connector and the later model rectangular throttle position sensor connector.</p> <p><b>16</b> - Includes all sensors, wiring harness, Pertronix Ignitor kit, Throttle bodys and adaptors, computer, software tuning kit, and a BASE calibration.</p> <p><b>17</b> - Not recommended for applications with less than 255 cubic inches; has very large flow capacity.</p> <p><b>18</b> - This kit will fit all multi port fuel injected Jeep 4.0L. All new sensors required except for IAC and TPS. The 1997-1999 distributor must be used.</p> <p><b>19</b> - The PERFECT HI Velocity 62mm P/N 65300 and 68mm P/N 65301 make a great power adder to this kit.</p>
GM	1985-1992	CAMARO/FIREBIRD or CORVETTE	5.7L	L98	65104 1	65246 2, 5	
GM	1992-1997	CAMARO/FIREBIRD	5.7L	LT1 (Aluminum Head)	65105 3	65247 2, 3, 5	
GM	1992-1997	Roadmaster, Caprice, Impala, Fleetwood	5.7L	LT1 (Iron Head)	65105 3	65247 2, 3, 5	
GM	1992-1996	FIREHAWK or CORVETTE	5.7L	LT4	N/A	65247 2, 3, 5	
GM	1992-1997	370HP HI RPM Kit	5.7	LT1/4	65205 4	65245 2, 5 Separate Software Only Kit	
GM	1997-2004	CAMARO/FIREBIRD or CORVETTE	5.7L	LS1/LS6	65106 6, 7	65248 2, 5	
GM	1997-2004	409HP HI RPM Kit	5.7L	LS1/LS6	65206 8	65245 2, 5	
GM	1999-2007	GM Fullsize Truck and SUV	5.3L/6.0 L	LM4/LM7 LQ4/LQ9	65108 9	65253 2, 5	
GM	2006-2007	Chevy Corvette, TrailBlazer/Cadillac CTS-V	6.0L	LS2 w/58X Crank	65254 w/o Throttle Body 10		
GM	2006-2007	Chevy Corvette, TrailBlazer/Cadillac CTS-V	6.0L	LS2 w/58X Crank	65255 w/ 92mm Throttle Body 11		
GM	2006-2007	Chevy Corvette, TrailBlazer/Cadillac CTS-V	6.0L	LS2 w/58X Crank	65255 12 w/ 92mm PERFECT HI-VELOCITY Throttle Body & Comp Camshaft P/N 54-457-11		
GM	2006-present	All LS2 and LS3	6.0L - UP	92mm 1400 CFM	65303 13 PERFECT HI VELOCITY THROTTLE BODY		
Ford	1985-1993	Ford/Lincoln	5.0L	H.O.	65120 14	65250 2, 5	
Ford	1994-1995	Ford/Lincoln	5.0L	H.O.	65121 15	65251 2, 5	
Ford	1949-1953	Ford/Mercury Flathead	239ci or 255ci	Two Deuce Black	65257 16		
Ford	1949-1953	Ford/Mercury Flathead	239ci or 255ci	Three Deuce Black	65258 16, 17		
Ford	1949-1953	Ford/Mercury Flathead	239ci or 255ci	Two Deuce Silver	65259 16		
Ford	1949-1953	Ford/Mercury Flathead	239ci or 255ci	Three Deuce Silver	65260 16, 17		
Jeep	1991-2004	Jeep Cherokee, Grand Cherokee & Wrangler	4.0L or Stokers	L6	65140 18 Best results with 1999 and up intake manifold.	65252 2, 5, 18	
Jeep	1991-2004	Jeep Cherokee, Grand Cherokee & Wrangler	4.0L or Stokers	L6	65141 2, 5, 18, 19 includes HI TORQUE Camshaft 15HP and 25FT/LBS over stock. Best results with 1999 and up intake manifold.		

## IT'S A LOT MORE THAN CIRCUITS AND WIRE

How often have you seen advertisements for wiring harnesses promising, "21-circuit kit for the low, low price of...?" What do you get for that low price? 21 circuits and yards of colored wire? Is that all you need, and exactly what makes up a proper wiring harness, anyhow? Well, it's a lot more than just circuits and wire. A wiring harness is, first and foremost, engineering. At Painless, all of our harnesses are designed by real engineers using the latest in diagnostic equipment and AutoCAD to ensure consistency in manufacturing and an accurate and easy installation.

## PRE-TESTED FOR GUARANTEED PERFORMANCE

Finally, and certainly not least, there's quality. You deserve the assurance that after installing a harness it's going to work: That when you turn on the headlights, they shine; That the blinkers blink and that the engine starts. At right you see a Painless fuel injection harness on our exclusive test boards. Every single fuel injection harness, before it goes in the box, is mounted first on one of our test boards like this. Each blue connector simulates a particular engine function. This test ensures that all connections are working properly, all pinouts are correct and there is continuity in all the wires. When you install a Painless harness, we GUARANTEE it is going to work.

## HALF THE WORK IS DONE FOR YOU

The next most important component in a wiring harness is skilled craftsmanship. No, you won't find that in the box along with the parts kit, but you'll recognize it as you install one of our harnesses. You'll appreciate how we take the time to properly group each wire in sections so that instead of routing eighty or a hundred individual wires you route entire sections of the vehicle at one time, drastically reducing the amount of time it takes to install a harness and virtually eliminating routing errors. That's why we say: With Painless, half the work is done for you.

## THE HIGHEST QUALITY WIRE YOU CAN BUY

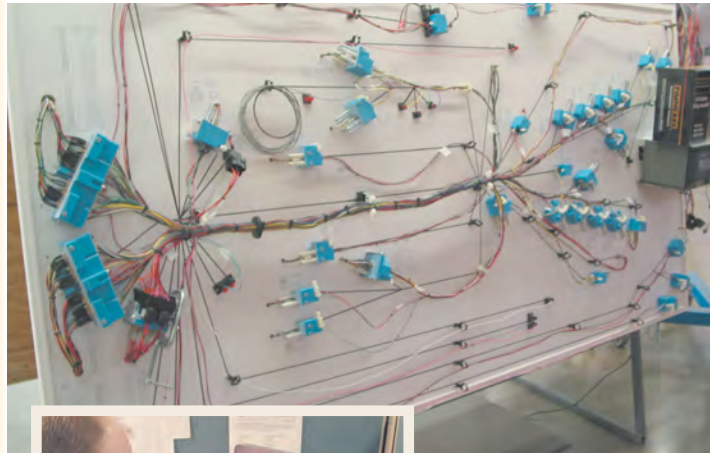
A wiring harness is only as good as its wire. That's why Painless harnesses use only the highest quality wire available: thermal cross-linked (TXL) polyethylene wire rated to 125°C (275F) degrees. TXL wire has twice the voltage rating of standard general purpose (GPT) wire. It delivers performance on demand in high performance applications. Plus, it will not kink and is abrasion resistant, making it much easier to route.

## COLOR-CODED, PREPRINTED WIRE

Wiring a car can sometimes be an intimidating project, but not with a Painless chassis harness. Open the box and the wire is already bundled in sections: front, rear, engine, etc. Simply mount the fuse block, start with one section of the car and route the wire. Each wire is printed with the application so you know right where it goes. To further ensure a painless installation, each chassis harness is color-coded for easy trouble-shooting.

## WIRING PRE-TERMINATED TO FUSE BLOCK

This is the most important feature of a Painless chassis harness. How well the wiring is connected to the fuse block, how secure and permanent the connection, determines how well the entire system will perform. Every Painless chassis harness comes out of the box with the wiring already terminated using state-of-the-art Packard presses and all harnesses are then carefully assembled by hand. This assures you of a trouble-free performance that screw connections cannot match. Plus, half the job is already done for you. Just mount the block and route the wires.



Made With Pride  
In The USA



**When You Know The Facts  
There's Only One Sensible Choice**

### How To Choose The Right Harness For Your Vehicle

If your car is not among the specific vehicle applications mentioned in this catalog one of our proven universal kits is your best choice. These kits are designed to be used on a wide range of vehicle types. All of our kits come ready to install. We've thought out the problems for you and designed these kits to be truly Painless. The 12 circuit kits will cover the most basic chassis wiring needs.

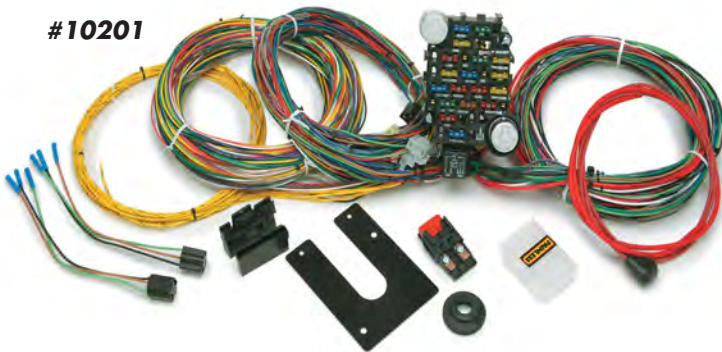
If your car or truck will have additional electrical accessories such as power windows, door locks or other creature comforts, you will want our 18 circuit harness. Remember that you may want to install these items some time in the future, so now is the time to provide wiring by installing our 18 circuit harness or by using a Painless Cirkit Boss™ harness. There is one other consideration that is important: Is your ignition switch on the steering column or in the dash? Use the designated "for GM steering column" for early style "keyed" steering columns from GM. All kits come with more than enough wire and terminals, etc. to do the job. You route and cut these harnesses to suit your vehicle's needs.

#### #10101



12 Circuit Harnesses Include: Air Conditioning, Heat, Brake Lights, Ignition, Horn, Electric Fan, Emergency Flashers, Dash Instruments, Headlights, Radio (constant and ignition hot), Turn Signals, Wipers, Dome Light, Tail Lights, Backup Lights, Third Brake Light, Charging, Electric Choke and Starting.

#### #10201



18 Circuit Harness Adds Circuits For These Accessories: Power Door Locks, Power Windows, Accessory Plug, Electric Fuel Pump, Backup Lights/Cruise Control, and Power Antenna.

### MODERN BLADE-TYPE OEM-STYLE FUSE BLOCKS

The nerve center of every Painless chassis harness is our fuse block. These fuse blocks feature easy-to-find, modern blade-type fuses, clearly labeled circuits, corrosion resistant construction and a compact design.

### SUPERIOR CIRCUIT PROTECTION

Every Painless chassis harness is protected with a 70 amp Maxi-Fuse. Unlike a fusible link, which melts in the event of an electrical short, a Maxi-Fuse is a large bladed fuse designed for circuit protection in high amperage, high performance applications. It is easily installed and easily replaced.

### EVERYTHING YOU NEED

You know you'll be completing your installation with quality components because the fuses, flashers, relay, wire ties and mounting brackets you need to do the job right are in the Painless chassis harness kit.

### COMPREHENSIVE INSTRUCTIONS & TECH SUPPORT

Even seasoned wiring pros have a question now and then and, if the answer is not in the comprehensive, step-by-step instruction manual that comes in each kit, it's nice to know that you're just a toll free call away from the most professional technical assistance help line in the industry.

### GUARANTEED FOR LIFE

Only Painless is confident enough in the quality of its harnesses to back them with a Lifetime Guarantee; a promise of quality unmatched anywhere. This is the culmination of seventeen years of market leadership, quality design and manufacturing innovations. It means you can share our confidence that when you install a Painless chassis or fuel injection harness, you're wiring your car with the very best there is... Guaranteed!

### 12-CIRCUIT UNIVERSAL GM KEYED STEERING COLUMN

#10101 - Our 12 Circuit kits can be used in just about any vehicle where basic wiring is needed. This kit includes GM (column mounted) ignition switch plugs and a GM turn signal switch plug pre-terminated and ready to install. Also included are pre-wired plugs for headlights and the dimmer switch.

### 12-CIRCUIT UNIVERSAL

#10102 - This kit does not include the GM column mounted ignition switch plugs but includes the GM column mounted turn signal switch plugs and terminals.

### 18-CIRCUIT UNIVERSAL GM KEYED STEERING COLUMN

#10201 - The 18-Circuit kit allows you to add accessories to the basic wiring such as power windows, door locks, etc. This kit includes GM (column mounted) ignition switch plugs and a GM style turn signal switch plug pre-terminated and ready to install. Also included are pre-wired plugs for headlights and the dimmer switch.

### 18-CIRCUIT UNIVERSAL

#10202 - This kit does not include the GM column mounted ignition switch plugs but includes the GM column mounted turn signal switch plugs and terminal.

## 14-CIRCUIT REMOTE MOUNT MICRO FUSE HARNESS

**#10130** - This Micro Fuse Harness solves a dilemma faced by many custom car builders: where to mount the fuse block. With engine compartments becoming more crowded and underdash space at a premium, there often is not room for a standard size fuse block. This is the answer because it can be mounted either in the passenger area or the trunk for easy access. The key elements are the small fuse block itself: it measures just 3" x 3 1/2" x 2" yet holds 12 fuses and 2 relays and the extra length wires. You can easily tuck it up under the seat or, because of the unique design of this harness, mount it in the trunk. The covered fuse block stays free of dirt and contaminants.

This complete automobile wiring system 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, horn, starter solenoid, battery feed, alternator (output/exciter wire), coil, water temperature, oil pressure and air conditioning compressor.

**Dash Group Includes:** wires to connect gauges, indicator lights, switches, a/c, heat and radio to their proper sources.

**Rear Light Group Includes:** tail light, dome light, left and right turn signals, brake lights and fuel sender.

The kit includes an accessory relay and a 10 gauge alternator wire for use with high amperage (over 65 amps) alternators. All wires are color-coded and printed along their entire length for ease of installation. A comprehensive installation manual with charts and diagrams is included.

## TRUNK MOUNT CHASSIS HARNESS

**#10120** - In many street rods and custom cars there is little or no room to mount the fuse block under the dash, forcing modifications to either the car or the harness.

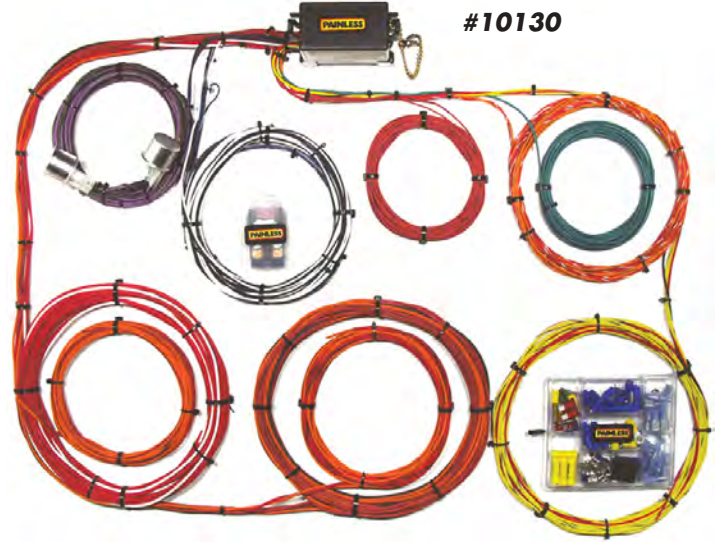
Our 12-circuit trunk mount wiring harness provides additional wire length from the fuse block to the dash and front end, allowing the remote installation of the fuse block in the trunk or behind the rear seat. Like all Painless kits, these fuse blocks come completely pre-wired and terminated for a simple, painless installation. Includes GM column mounted ignition and turn signal plugs.

### #10220 - 18-circuit Trunk Mount (shown)

The 18-Circuit kit allows you to add accessories to the basic wiring such as power windows, door locks, etc. This kit includes GM (column mounted) ignition switch plugs and a GM style turn signal switch plug pre-terminated and ready to install. Also included are pre-wired plugs for headlights and the dimmer switch.

### POWERBRAID

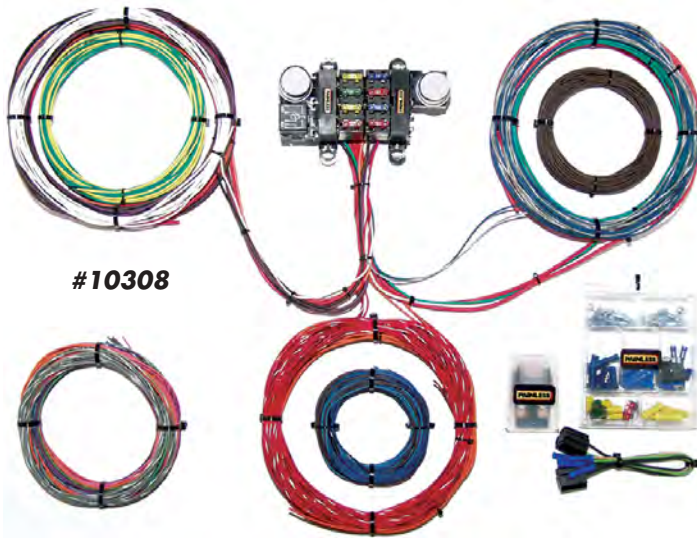
See Page 56 for our high temp 425° flexible braided wiring cover.



If space is an issue or you're just looking to use the very best there is, the Micro Fuse Harness is the wiring harness for you.

### #10220





#10308



### 8-CIRCUIT MODULAR T-BUCKET HARNESSSES

**#10308** - We started with our proven Modular Chassis Harness and designed a harness specifically to address the basic hot rod owner's needs. This compact, streamlined, simple to install harness has all the basic circuitry needs: headlights, tail lights, brake lights, turn signals, hazards, horn, gauges, wipers, radio, electric fan, electric choke and one accessory circuit. Each wire is color-coded and printed the entire length for ease of installation.

As an added plus, the fuse block is modular so if you decide at some point to add additional accessories to your bucket, you can easily snap another four circuits into place.

**#10307** - New Modular Harness includes longer 25 ft. rear circuit wiring and 16 ft. wiring from dash forward for longer wheel base cars.

**12 Circuit Harnesses Include: Air Conditioning, Heat, Brake Lights, Ignition, Horn, Electric Fan, Emergency Flashers, Dash Instruments, Headlights, Radio (constant and ignition hot), Turn Signals, Wipers, Dome Light, Tail Lights, Backup Lights, Third Brake Light, Charging, Electric Choke and Starting.**

**18 Circuit Harness Adds Circuits For These Accessories: Power Door Locks, Power Windows, Accessory Plug, Electric Fuel Pump, Backup Lights/Cruise Control, and Power Antenna.**



#30800

**NEW!**

Made With Pride  
In The USA



### CSI UNIVERSAL ENGINE HARNESS

**#30830** - Is old brittle engine wiring causing issues with your starting or charging circuits? Are you in the process of swapping from fuel injection to a carburetor and unsure about what to do with all the leftover factory wiring? Maybe you're in need of a bare essentials wire harness for that off road project you've been putting together? The C.S.I. harness may be just what you need!

The C.S.I. harness is a universal weather-proof engine harness providing wiring to accommodate the charging, starting, and ignition of just about any non fuel injected engine. Wiring from the engine to the gauge cluster is even included.

The 30830 Harness kit includes a pre-wired 4 circuit fuse block providing switched and battery voltage, a Maxi Fuse for full harness protection, and wiring to accommodate the following: gauge connections (water temperature, oil pressure, tachometer, gauge power / voltmeter, alt/charge indicator), ignition switch (power in, power out, start), coil power, ignition bypass, electric choke power, alternator output, alternator switched 12V source, starter signal, 30 amp max switched 12V accessory, 30 amp max constant power accessory, one un-fused constant battery power accessory.

## UNIVERSAL MUSCLE CAR HARNESSSES

**#20103** - Can your electrical system handle all of the power demands of today's aftermarket add-ons? It can if it's Painless. These harnesses use the highest quality thermal-crosslink (TXL) polyethylene wire rated to 125°C (275F) degrees - twice the voltage load of standard GPT wire. That's power on demand. This 12-circuit harness is for most 1960s and 70s Chrysler, Ford and GM cars where a bulkhead connector is required. May require minor bulkhead modifications.

For 18 circuit applications use 20104

## GM MUSCLE CARS

**#20101** - Fits: 1967- 68 Camaro and Firebird  
(1967 RS headlight harness #30818)

**#20102** - Fits: 1969 -74 Camaro/Firebird, Nova, El Camino, Monte Carlo, Apollo, Chevelle, Cutlass, Skylark, Tempest and GTO.

Our universal 18-Circuit kit is modified to include custom features to make it easier to wire GM muscle cars. A pre-wired factory style bulkhead connector plugs into the fuse block through the firewall in the stock location. Easy-to-install, factory original, quick connect terminals are included for the in-dash printed circuit board. Pre-terminated plugs for the ignition and turn signal switches are included.

**12 Circuit Harnesses Include: Air Conditioning, Heat, Brake Lights, Ignition, Horn, Electric Fan, Emergency Flashers, Dash Instruments, Headlights, Radio (constant and ignition hot), Turn Signals, Wipers, Dome Light, Tail Lights, Backup Lights, Third Brake Light, Charging, Electric Choke and Starting.**

**18 Circuit Harness Adds Circuits For These Accessories: Power Door Locks, Power Windows, Accessory Plug, Electric Fuel Pump, Backup Lights/Cruise Control, and Power Antenna.**

## REPLACEMENT ENGINE COMPARTMENT HARNESSSES

**#21000** - Replacement harness for the underhood section of Painless GM chassis harness #20101.

**#21001** - Replacement harness for the underhood section of Painless GM chassis harness #20102.

**NOTE: Not for use with factory fuse block**

## 1966-67 CHEVY II HARNESS

**#20110** - This vehicle specific 12-circuit harness makes easy work of rewiring your Chevy II. Kit includes three harnesses: Main (dash forward) harness, Tail harness, Dome harness.

The following connectors are already installed on the harness: Headlight switch, Headlight connectors, Fuel gauge connector, Dimmer switch, Brake switch, Heater switch, Blower resistor, Wiper switch, Backup switch, Horn, Dash light sockets, Warning light sockets.

Also includes: Alternator pigtail with connector installed, Harness for factory air, Two door jamb switches, High output alternator kit, 70 amp Maxi Fuse.



#20103



#20101

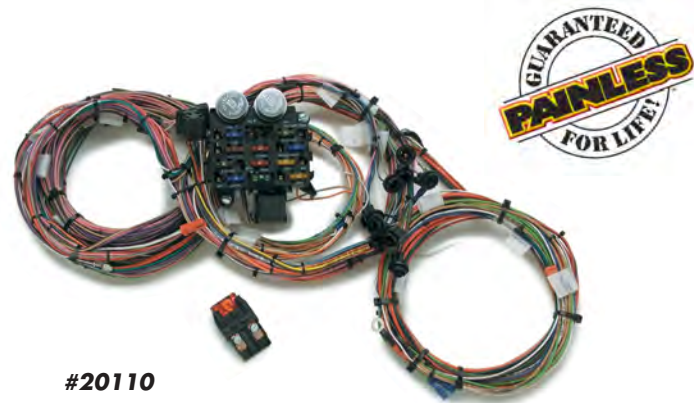


#21000

#21001



(WILL NOT work with factory harnesses)



#20110



**NEW!**



#20112



#20106



#10127



#10123

### 1970-1981 SECOND GENERATION CAMARO 18-CIRCUIT CHASSIS HARNESSSES

No need to buy a dozen subassembly pigtails to wire your second generation Camaro. The harness comes complete with virtually every connector installed on the harness out of the box. It is separated into 3 sections (engine section, interior section and rear section) for ease of installation. A fully integrated ground circuit back to the battery is included. No more troubleshooting to find a faulty ground circuit. (A/C wiring NOT included - see our website for information)

#20112 - 1970-73 18-Circuit Camaro Chassis Harness

#20113 - 1974-77 18-Circuit Camaro Chassis Harness

#20114 - 1978-81 18-Circuit Camaro Chassis Harness

### 1955-57 CHEVY CHASSIS HARNESSSES

An adaptation of our universal 12 and 18-Circuit harness designed to custom fit your "Tri-Five Chevy" with a factory location mounting plate for the fuse block, special dash and turn signal connectors. This harness features color coded wires fully labeled with each circuit the entire length of each wire.

#20106 - 18 Circuit Harness Kit

#20107 - 12 Circuit Harness Kit

**12 Circuit Harnesses Include: Air Conditioning, Heat, Brake Lights, Ignition, Horn, Electric Fan, Emergency Flashers, Dash Instruments, Headlights, Radio (constant and ignition hot), Turn Signals, Wipers, Dome Light, Tail Lights, Backup Lights, Third Brake Light, Charging, Electric Choke and Starting.**

**18 Circuit Harness Adds Circuits For These Accessories: Power Door Locks, Power Windows, Accessory Plug, Electric Fuel Pump, Backup Lights/Cruise Control, and Power Antenna.**

### MOPAR MUSCLE CAR CHASSIS HARNESS

#10127 - Designed for 1966-76 Chrysler muscle cars, this 14 circuit harness features Mopar OEM color coded wires, fully labeled with each circuit the entire length of each wire. This harness also features our unique covered mini micro-fuse block pre-terminated for easy installation.

### FORD UNIVERSAL MUSCLE CAR HARNESS

#10123 - Now you don't have to struggle with using GM color codes while wiring your Ford muscle car. This 14 circuit harness features all Ford color coded wires fully labeled with each circuit the entire length of each wire. Designed as a wiring upgrade for any 1966-76 Ford muscle car such as Galaxie, Fairlane, Torino, Montego, etc.

**Not recommended for Thunderbird 1964-up.**

## CLASSIC MUSTANG HARNESSES

Give your 1965 through 1970 Mustang the Painless treatment with a new chassis wiring harness designed specifically for your 'Stang. Eliminate all of those wiring gremlins by tearing out that frayed and worn factory harness and starting fresh with a new, state-of-the-art harness from Painless. Each harness features a modern, preterminated 14-circuit covered fuse block complete with 12 blade-type micro fuses and 2 relays. All wires follow original Ford color codes and labeled throughout for simple installation.

### 1965-66 MUSTANG CHASSIS HARNESS

**#20120** - A factory upgrade harness for 1965 to 1966 Ford Mustangs. The harness is divided into two sub-harnesses to include: interior/rear/engine: Headlights/front exterior lights



### 1967-68 MUSTANG CHASSIS HARNESS

**#20121** - A factory upgrade for 1967 to 1968 Ford Mustangs. The harness is divided into five sections to include under dash, instrument panel, engine and tail sections, and additional circuits such as radio, courtesy lights and tach signal. Includes a preterminated a/c harness for '67-'68 Mustangs with factory air and an accessory relay for use with fog lights or fuel pump.



### 1969-70 MUSTANG CHASSIS HARNESS

**#20122** - A factory upgrade for 1969 to 1970 Ford Mustangs. The harness is divided into five sections to include under dash, instrument panel, engine and tail sections, and additional circuits such as radio, courtesy lights and tach signal.

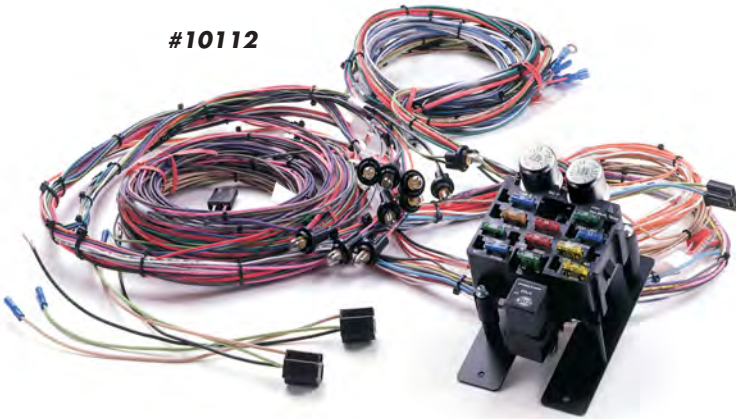


### DURASPARK II

See Page 50 for our harness to upgrade from your old points type ignition to a Duraspark II electronic ignition system. **#30812**



#10112



### 12-CIRCUIT GMC/CHEVY TRUCK HARNESS

**#10112** - Designed for use on 1963-66 GM/Chevy pickups. This 12-circuit kit includes the following connectors pre-terminated to the harness: Wiper motor, dimmer switch, brake switch, wiper switch, headlight switch, horn, dash light sockets and warning light sockets. Kit also includes alternator pigtail with connector installed. Will work with single or dual dash turn signal indicator.

#10206



### 18-CIRCUIT GMC/CHEVY TRUCK HARNESS

By adding a factory-style bulkhead connector and additional GM connectors we made our universal harness a custom fit for these popular GM/Chevy trucks. Nothing could make re-wiring your truck any easier. For 2 wheel and 4 wheel drive trucks.

**(For 1967-72 GM trucks with factory a/c requires use of #30901 a/c harness. For courtesy lights use kit #30708)**

**#10206** - 1967-72 Chevy/GMC Trucks, Blazers and Suburbans

**#10205** - 1973-87 Chevy/GMC Trucks, Blazers and Suburbans

**12 Circuit Harnesses Include: Air Conditioning, Heat, Brake Lights, Ignition, Horn, Electric Fan, Emergency Flashers, Dash Instruments, Headlights, Radio (constant and ignition hot), Turn Signals, Wipers, Dome Light, Tail Lights, Backup Lights, Third Brake Light, Charging, Electric Choke and Starting.**

**18 Circuit Harness Adds Circuits For These Accessories: Power Door Locks, Power Windows, Accessory Plug, Electric Fuel Pump, Backup Lights/Cruise Control, and Power Antenna.**



#10103



### GM KEYED STEERING COLUMN UNIVERSAL TRUCK HARNESSSES

Use in just about any pickup where basic-or-more wiring is needed. Ample wire lengths make this kit especially suited for trucks with long beds and extended cabs. This kit includes GM (column mounted) ignition switch plug and the GM (column mounted) turn signal switch plug pre-terminated and ready to install.

**#10103** - 12-Circuit harness kit

**#10203** - 18-Circuit harness kit

### UNIVERSAL TRUCK HARNESSSES

Can be used in just about any pickup where basic-or-more wiring is needed. Ample wire lengths make this kit especially suited for everything including trucks with long beds and extended cabs.

**#10104** - 12-Circuit harness kit

**#10204** - 18-Circuit harness kit

## 1967-77 FORD TRUCK CHASSIS HARNESSSES

Designed to be used on 1967-77 Ford F-Series trucks, these new Painless harnesses are the most up-to-date and easiest to install wiring harnesses for these popular trucks.

These kits are a must for the serious restorer. Each 14-circuit kit contains detailed instruction for each year of vehicle covered and are designed using original Ford color codes. They include many preterminated wires for convenience and ease of install. Choose from either the 10118 which includes factory style switches for headlights, ignition, dimmer, wiper and brakes or the 10117 which has no switches and is intended for more custom applications.

**#10117** - 1967-77 Ford Truck  
Harness without switches

**#10118** - 1967-77 Ford Truck  
Harness with switches

**Each harness has six major sections:**

### ENGINE SECTION

Water temperature, oil pressure, tach, coil, choke and a/c compressor clutch.

### DRIVER'S SIDE SECTION

High beam, low beam, park lights, left turn signal, horn, wiper washer motor and brake proportioning valve.

### PASSENGER SIDE SECTION

High beam, low beam, park lights, right turn signal, horn, voltage regulator, starter solenoid, battery feed and alternator.

### GAUGE CLUSTER SECTION

1967-69 gauge cluster harness, 1970-74 gauge cluster pigtail adapter, 1975-77 gauge cluster pigtail adapter.

### UNDER-DASH SECTION

Heater - a/c switch, headlight switch, turn signal switch, glove box hazard switch, radio, tach, ignition switch, cigar lighter, dimmer switch, brake switch, heater -a/c resistor, heater blower motor, wiper switch, wiper motor, cargo light switch, cargo light switch, door jam switches and courtesy lights.

### TAIL SECTION

Includes tail light, stoplights, turn signals, backup lights, license plate light and fuel sending unit.



**#10117**



Made With Pride  
In The USA



### DURASPARK II

See Page 50 for our harness to upgrade from your old points type ignition to a Duraspark II electronic ignition system. **#30812**





#10113

All New From  
Top To Bottom!



#10107



#10144



### 1966-77 FORD BRONCO CHASSIS HARNESS

Designed with input from Bronco owners everywhere, this 23 circuit harness sets a new standard. Not just an update of our previous Bronco harness, this is a completely new harness from top to bottom. It includes a molded plastic glove box to replace the cardboard factory one. The new glove box contains a cutout which allows the 20-circuit fuse block to be installed in the factory location. Other features include factory-style molded exterior light connectors, Ford turn signal connectors and Ford dimmer switch connector. This new harness follows the factory routing so installation is a breeze on any 1966-77 Bronco. Available with or without switches for wiper, ignition and headlights.

#10113 - 1966-77 Ford Bronco Chassis Harness with switches

#10114 - 1966-77 Ford Bronco Chassis Harness without switches

#86000 - Replacement Bronco Glove Box (included in harness kit)

### BRONCO POWERBRAID KIT

#70922 - Finish the job right with this complete PowerBraid kit for use with either the 10113 or 10114 harness. Contains all the appropriate diameter wire wrap, ties and tape.

### INTERNATIONAL SCOUT

#10107 - Why hassle with old patched up wiring? Our universal 12-circuit harness is adaptable to many of the original connector plugs and includes prewired plugs for headlights. Weatherproof harness listed on page 30.

### EXTREME OFF ROAD HARNESS

#10144 - Everything needed to fully wire any non-street legal rock crawler, sandrail or other off road vehicle. Includes 10 circuit, 4 relay weatherproof fuse block, 40 Amp automatic reset circuit breakers, junction block and extreme duty heat sealing crimp connectors.

#### POWERBRAID

See Page 56 for our high temp 425° flexible braided wiring cover.

## WEATHERPROOF CHASSIS WIRING HARNESSES

The best wiring harnesses for rough off-road conditions just got better with the introduction of these three new weatherproof harnesses. On top of the already superior Painless design and materials, these tough new kits feature:

- Weatherproof fuse block with clear O-ring-sealed cover
- Weatherproof heat-sealed crimp-on terminals
- Waterproof horn relay
- Machine crimped splices with weatherproof shrink tubing

#10140 - Universal - 20 Circuit Weatherproof Chassis Harness

#10142 - Jeep CJ2/CJ5 - 20 Circuit Weatherproof Chassis Harness

### WANT A COMPLETE WEATHERPROOF SYSTEM?

See page 45 for weatherproof relays and page 41 for our weatherproof switch panels.



Made With Pride  
In The USA



#10110



**NOTE: Harness #10110 is NOT equipped for computer controls nor is it engine specific. Water temp sender, oil gauge sender, alternator, starter solenoid, tach lead, ignition and fuel tank sender are NOT pre-terminated.**

#10110



Fully grounded for use with fiberglass Jeep bodies.

#10105



#10111



### FACTORY STYLE CJ REPLACEMENT HARNESS

**#10110** - For 1975-86 CJ Series Jeeps. Almost every circuit on this harness is pre-terminated at both ends on this three section harness. All wires are color coded and labeled and all wire leads are pre-cut to proper lengths. Our harness uses an OEM style bulkhead connector that attaches to the bulkhead without any special brackets or modifications. The blade-type fuse block wiring is factory terminated and machine crimped. The most Painless way to wire your 75-86 CJ Series Jeep.

#### ENGINE SECTION

Chassis ground, brake failure warning switch, horn, windshield washer, heater motor, park and signal lights, front marker light (w/bulb socket), headlights, sending units, starting, charging, ignition circuits, tachometer lead, ballast resistor, maxi fuse, terminal ends, wire ties and grommets.

**This engine section harness is available as a stand-alone product #11002 - WILL NOT work with factory harness.**

#### MAIN BODY SECTION

Heavy duty blade style ATO fuse block, heater switch, blower motor resistor, dimmer switch, ignition switch, turn signals, headlight switch, windshield wiper power, turn signal indicators (with bulb socket), high beam indicator (with bulb socket), dome lamp ground and power, neutral safety switch, stop light switch, dash indicator lamps, backup lamp switch, water temp gauge (with illumination sockets), oil pressure gauge (with illumination sockets), fuses, flashers, horn relay and emergency brake switch.

#### REAR SECTION

Main harness-to-rear harness, rear marker lights (with bulb sockets), 4 wire rear lamp ground and tail light housing.

### 12-CIRCUIT JEEP CJ HARNESSSES

These factory upgrades use the OEM style fuse block and TXL high temp wire for trouble free performance. Open ended wire leads allow for custom routing of wires. Both kits include standard 12-circuit features. #10106 includes additional GM pre-wired plugs for ignition switch, dimmer switch and turn signals.

**#10105** - CJ-2/CJ-5 Thru 1974 where the wires run through a grommet in the bulkhead and the ignition switch is in the dash.

**#10106** - CJ-6/CJ-7 1975 & On. Uses the factory-style bulkhead connector so no special brackets are required.

**This engine section harness is available as a stand-alone product #11003 - WILL NOT work with factory harness.**

### WEATHERPROOF JEEP CJ HARNESS

**#10142** - See page 20, left, for more details

### JEEP YJ HARNESS

**#10111** - YJ Models 1987-91 This popular Jeep series finally gets the Painless treatment with this all new chassis harness kit. Features a factory style bulkhead connector and ATO type fuse block. All wires are color coded and labeled high temp TXL stock and all wire leads are labeled for easy routing. Kit contains all the connectors, fuses, flashers and relays you'll need for a pro quality job.

**NOTE:** Factory EFI and emissions ICM not supported

## WIRING HARNESES FOR THE WINNING RACER

Why wire from scratch when you can use a complete harness from Painless? Save time to work on other parts of your race car. The last thing you need to worry about at a race is a wiring problem. Make sure it's done right with a Painless Wiring harness.

## DRAG RACE WIRING HARNESS/PANEL KIT

**#50003** - Complete 12-Circuit Drag Race Wiring Kit. This kit contains everything you need to wire a race car in one box. The 8-rocker switch control center plugs directly into the 12-circuit Pro Street harness making this the easiest and most complete way to wire a race car. Harness circuits include electric water pump, radio, electric fan, fuel pump, brake lights, headlights, tail light, wipers, turn signals, flashers, horn and ignition. The switch panel features heavy duty rocker switches to control start, ignition, fan, fuel pump one, fuel pump two, water pump, lights and one accessory.

## 12-CIRCUIT PRO STREET HARNESS KIT

**#50002** - Looking to operate your circuits through the factory switches and not a switch panel? This Pro-Street harness is for you. Contains all the features of the 12-circuit harness in the Drag Race Wiring Kit but with necessary pigtailed to direct wire the start, ignition, fan, fuel pump, water pump and lighting circuits.

## 8-CIRCUIT RACE WIRING HARNESS/PANEL KIT

**#50005** - The Painless answer to all of your race car wiring needs. This includes an 8 circuit relay harness and a 6 switch contour rocker switch panel. The harness provides fused relay power for all your race car needs. Get away from mounting individual relays all over your vehicle and make your electrical system more reliable. Circuits covered by this system include: Start, ignition, fuel pump, water pump, electric fan, headlights and tail lights, and two accessory relays, along with a fused constant accessory power.

## 8-CIRCUIT EXTREME CONDITION HARNESS KIT

**#50001** - Machine pre-terminated fuse block and relays. Every circuit is protected with a fuse AND a 30-amp relay for maximum reliability. Oversized, TXL, color coded, high temp wire is used throughout. You can't make it any tougher or any more reliable!

Kit Includes: Start, ignition, electric water pump, electric fan, electric fuel pump #1, electric fuel pump #2, lights, & accessories. Comes with 18 feet of wire per circuit, terminals, wire ties, fusible link, rubber grommet, and easy to follow instructions.

## RACE HARNESS SWITCH PANELS

(For use with our 50001 race harness)

**#50201** - 8-Switch flat plate style for in-dash mounting.

**#50202** - 8-Switch self contained style for in-dash mounting.



#50003



#50002



#50005



#50001



#50201

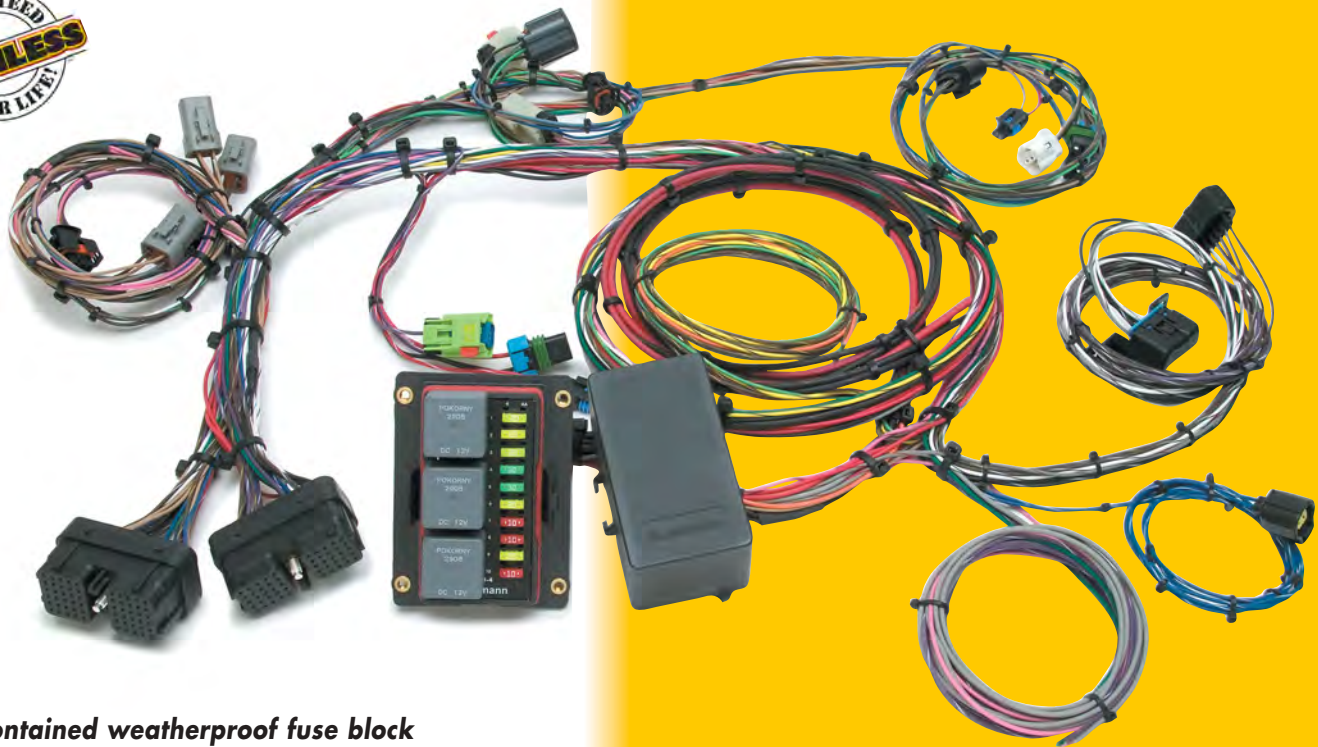


#50202



### The Painless Cummins Diesel Harness includes:

- All needed factory connectors including: ECM, Injectors, Oil Pressure Switch, Alternator, Fuel Heater, Battery Temp Sensor, Waste gate, Pre-turbo IAT/Pressure, Fuel Control Actuator, Crank Position Sensor, Radiator Fan Drive, Accelerator Pedal Position Sensor, MAP/IAT sensor, Water In Fuel Sensor, Cam Position Sensor, Coolant Temperature Sensor, Fuel Pressure Sensor, Diagnostic Link Connector (OBD2)
- Like all Painless wiring harnesses, this kit features only the top quality TXL high temp wire stock and premium weatherproof connectors.



- Self contained weatherproof fuse block
- Completely weatherproof harness (all connectors and heat shrink)
- Harness and fuse block were designed to mount in the engine compartment
- 10 circuit fuse block also includes fuel pump relay, fuel heater relay, ignition relay
- Harness color coded exactly to the factory specs
- Harness includes driver wires for the Intake Air Heater relays (you must purchase these relays separately from Chrysler or salvage yard)
- Harness supports both intake mounted and accelerator pedal mounted throttle position sensors.
- Fully illustrated instruction manual

### CUMMINS DIESEL ENGINE HARNESS

This is the first aftermarket harness developed to aid in the transplanting of the popular Cummins diesel engine. This harness eliminates the guess work during a 5.9L Cummins engine transplant. No more hunting for wire diagrams or using your volt ohm meter to identify wires. No more half burnt factory harness wires. No more tapping onto and overloading the existing vehicle fuse blocks. No more cutting and splicing. No need to purchase a separate fuel pump relay to run an aftermarket lift pump. This harness supports that and all other aspects of the engine swap.

**#60250 For 2003-05 Cummins 5.9L  
Standard Trans Applications**

Made With Pride  
In The USA



## 12-CIRCUIT COMPACT UNIVERSAL RACE/PRO STREET FUSE BLOCK

**#50101** - A racing version of our #30001 fuse block designed with all the circuits to make your race car street legal. Just terminate your wiring and attach it to the fuse block. Pre-wired and labeled for the following circuits: electric fuel pump, instruments, electric water pump, radio, electric fan, brake lights, wipers, headlights, turn signals, emergency flashers, horn, coil, dome light and alternator. Kit includes: 10-gauge alternator lead, mounting bracket, fuses, flashers, horn relay, terminals, fusible link, and step by step instructions.

## 12 CIRCUIT UNIVERSAL FUSE BLOCK

**#30001** - Use this 12 Circuit OEM style pre-wired fuse block to replace your existing fuse block or as a starting point for custom wiring. All you have to do is terminate each circuit wire and attach it to the fuse block. Pre-wired and labeled for the following circuits: Air conditioning /heat, gauges/dash instruments, brake lights, headlights, coil, horn, dome light, radio, electric fan, turn signals, emergency flashers, wipers and alternator. Kit includes: mounting bracket, fuses, flashers, horn relay, terminals, and full instructions.

## 18 CIRCUIT UNIVERSAL FUSE BLOCK

**#30003** - Contains same circuits as above but also includes circuits for power windows, power door locks, electric fuel pump, backup lights, cruise control, power antenna and other optional accessories.

## WEATHERPROOF UNIVERSAL FUSE BLOCK

**#30004** - If you just need to replace an exposed unreliable fuse block with something dependable, this new 20-circuit weatherproof block is the solution. It comes fully assembled with wire leads that you can connect to your existing wiring and is completely sealed from the elements for trouble free performance. Includes mounting bracket.

## WIRE-ONLY UNIVERSAL HARNESS KITS

These new kits contain all of the pre-printed, pre-cut wire necessary for any universal-type 12 or 18 circuit installation (think of a 10101 or a 10201 without the fuse block). Wires are all terminated and spliced where necessary. The power wires which go to a fuse block each are complete with fork terminals. Wire-Only kits are ideal for installers who:

1. Wish to use a terminal strip-style fuse block.
2. Wish to use a Painless 30001 or 30003 fuse block
3. Prefer to install by attaching to the accessory first, then routing to the fuse block, one wire at a time.

It's simply a matter of personal preference. Space limitations may prevent you from using the fuse block that comes in a standard Painless kit. You may already have a Painless 30001 or 30003 fuse block or something similar you wish to use.

**#30020** - The 12-circuit kit includes individual rolls of wire for air conditioning, heat, brake lights, ignition, horn electric fan, radio, flashers, gauges, headlights, turn signals, wipers, dome light, tail light, third brake light, charging, choke and starting.

**#30021** - The 18-circuit kit has additional wire for power windows, door locks, fuel pump, backup lights, cruise control, power antenna and one accessory circuit.

These kits are also designed for use with Painless stand-alone fuse blocks above.

#50101



#30001



#30003



#30004



**NOTE: 50101, 30001, 30003 and 30004 are fuse blocks only. They do not include any additional wiring.**

#30020



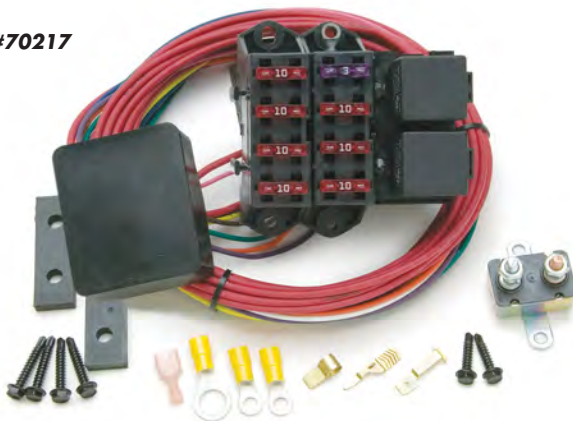
#70103



#70207



#70217



### CIRCUIT ISOLATING AUXILIARY FUSE BLOCK KITS

Don't go unprotected! Electrical accessories can send voltage spikes through your system, damaging everything from light bulbs to computers. The safe way to add electrical accessories is with CirKit Boss, the first circuit isolator that provides both constant and ignition hot circuits. No more tapping into an existing wire or into a spare circuit at the fuse block. Using these add-on, relay activated fuse blocks is the safe way.

Only a small activation wire from any ignition source is needed to turn on the relay that turns on the fuse block. All CirKit Boss models are made using TXL cross link polyethylene wire rated to 125°C (275F) degrees. All harness wires are 48" long and factory machine terminated. CirKit Boss includes an in-line circuit breaker, relay, mounting hardware, & terminals. Protects your OEM warranty. Easy to install. Safely adds ignition hot and constant hot circuits.

#### 3-CIRCUIT AUXILIARY FUSE BLOCK

#70103 - Perfect For Use Under Normal Conditions.  
1 constant-hot and 2 ignition-hot circuits. Uses one 40 amp relay.

#### 3-CIRCUIT AUXILIARY FUSE BLOCK

#70113 - Perfect For Use Under Normal Conditions.  
3 ignition-hot circuits. Uses one 40 amp relay.

#### 3-CIRCUIT HIGH AMPERAGE AUXILIARY FUSE BLOCK

#70114 - 3 ignition-hot circuits with a maximum total amperage of 70 amps. Uses one 70 amp relay.

#### 3-CIRCUIT WEATHER RESISTANT FUSE BLOCK

#70203 - Mounts under hood in unprotected areas. Extreme use where moisture/dust resistance is important. 1 constant-hot and 2 ignition-hot circuits. Uses one 40 amp relay. (Includes cover for fuses)

#### 3-CIRCUIT WEATHER RESISTANT FUSE BLOCK

#70213 - Mounts under hood in unprotected areas. Extreme use where moisture/dust resistance is important. 3 ignition-hot circuits. Uses one 40 amp relay. (Includes cover for fuses)

#### 3-CIRCUIT HEAVY DUTY WEATHER RESISTANT FUSE BLOCK

#70214 - Mounts under hood in unprotected areas. Extreme use where moisture/dust resistance is important. 3 ignition-hot circuits. Uses one 70 amp relay. (Includes cover for fuses)

#### 7-CIRCUIT AUXILIARY FUSE BLOCK

#70107 - 3 constant-hot and 4 ignition-hot circuits.  
Uses one 40 amp relay.

#### 7-CIRCUIT AUXILIARY FUSE BLOCK

#70117 - 7 ignition-hot circuits. Uses two 40 amp relays.

#### 7-CIRCUIT HEAVY DUTY AUXILIARY FUSE BLOCK

#70118 - 7 ignition-hot circuits. Uses two 70 amp relays.

#### 7-CIRCUIT WEATHER RESISTANT FUSE BLOCK

#70207 - 3 constant-hot and 4 ignition-hot circuits.  
Uses one 40 amp relay. (Includes cover for fuses)

#### 7-CIRCUIT WEATHER RESISTANT FUSE BLOCK

#70217 - 7 ignition-hot circuits. Uses two 40 amp relays.  
(Includes cover for fuses)

#### AUXILIARY FUSE BLOCK WEATHER RESISTANT COVERS

#70120 - Cover only - 3 circuit

#70121 - Cover only - 7 circuit

#### 4-CIRCUIT FUSE CENTER

#30002 - Use on any vehicle where additional circuits are needed. Ideal for in-line wiring applications, such as trailer wiring or when adding vehicle accessories. Uses blade type automotive fuses up to 30 amps.

**NOTE: No wire with this kit**

## RELAY BLOCK KITS

Choose from either a 3-Pack or 6-Pack of 40 amp relays. Ideal for powering accessories such as fuel pumps, water pumps, throttle stops, fan, nitrous solenoids. 3-Pack kit includes one 40 amp circuit breaker; 6-Pack includes two.

#30107 - 3-Pack Relay Bank

#30108 - 6-Pack Relay Bank

## UNIVERSAL ROCKER-SWITCH PANELS

Ideal for use with above relay block kits: These universal rocker switch panel comes in 4, 6 or 8 circuit variations and is complete with stick-on labels for a truly custom look. All panels feature lighted switches in various colors. Additional switches are included for custom wiring.

#50313 - 4-Switch Universal Rocker Panel - Dash Mount

#50314 - 4-Switch Universal Rocker Panel - Roll Bar Mount

#50315 - 6-Switch Universal Rocker Panel - Dash Mount

#50316 - 6-Switch Universal Rocker Panel - Roll Bar Mount

#50317 - 8-Switch Universal Rocker Panel - Dash Mount

#50318 - 8-Switch Universal Rocker Panel - Roll Bar Mount

## UNIVERSAL BODY/ENGINE GROUND STRAP KIT

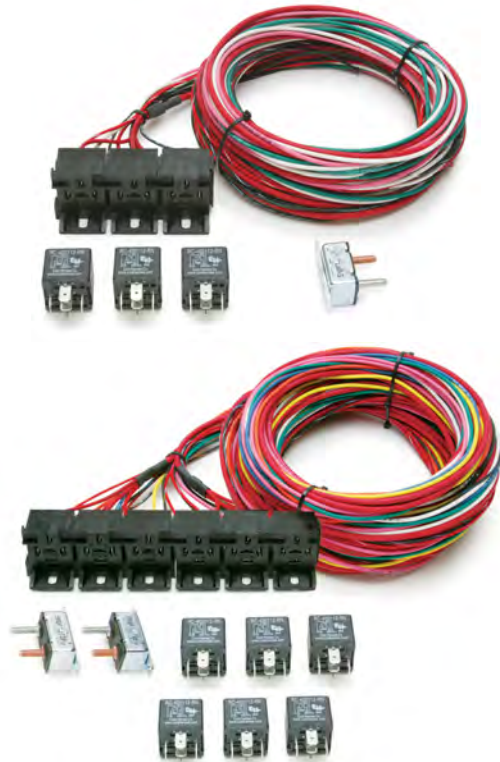
#40140 - Kit includes (1) 14" 1/0 heavy duty ground strap capable of supporting up to 315 amps to ground the engine to the frame, (3) 11" 10 gauge ground straps with self tapping screws to ground the core support, body, bed, etc to the frame. All straps are pre-terminated and ready to install.

## SINGLE HEAVY DUTY GROUND STRAP KIT

#40141 - Single 1/0 Heavy Duty 14" Ground Strap. Kit includes (1) 14" 1/0 heavy duty ground strap capable of supporting up to 315 amps to ground the engine to the frame.

## SINGLE 10 GAUGE GROUND STRAP KIT

#40142 - Single 10 gauge Heavy Duty 11" Ground Strap. Kit includes (1) 11" 10 gauge ground strap, also includes (2) 1/4 self tapping screws for mounting.



#50318



#40140

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#40141

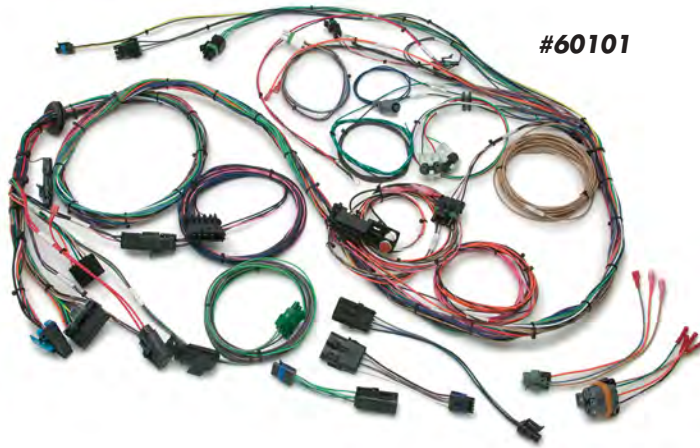


#40142

#60510



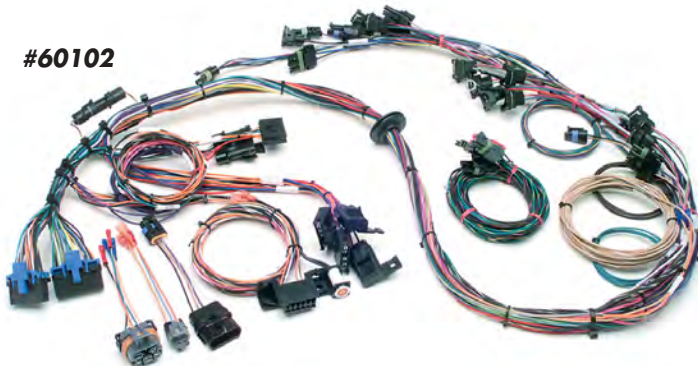
#60101



#60210



#60102



### FUEL INJECTION MADE PAINLESS

Those who choose to run the factory engine management computer will appreciate the simplicity of a Painless Fuel Injection Wiring Harness. Yes, you can whittle away at the stock harness and eventually make it work, but why complicate your life?

Our engineers have worked out all the potential problems ahead of time so all you have to do is follow the straightforward instructions and you're on your way. Every wire is color-coded and labeled for ease of installation.

**Important -**  
For specific application information refer to the F.I. application chart on page 34

#### FORD 5.0L H.O. FUEL INJECTION HARNESSES

- #60510 - FORD 5.0L V8 - 1985-1/2 - 95 (see note)
- #60511 - FORD 5.0L V8 - 1985-1/2 - 95 (see note)  
Extra Length Harness

**NOTE** - 1986-89-1/2 must add mass air sensor  
- 1994-95 must modify TPS wiring and change distributor

#### GM CROSS FIRE AND THROTTLE BODY FUEL INJECTION HARNESSES (LU5,LB3,LB4,LO3,LO5,L19)

- #60101 - GM TBI 4.3L, 5.0L, 5.7L, 7.4L - 1986- 1993
- #60201 - GM TBI 4.3L, 5.0L, 5.7L, 7.4L - 1986- 1993  
Extra Length Harness
- #60210 - GM Vortec 4.3L V6 - 1992-95  
No Extra Length Harness Available

- #60102 - GM TPI 5.0L and 5.7L - 1985-89 (Mass Air Flow)
- #60202 - GM TPI 5.0L and 5.7L - 1985-89 (Mass Air Flow)  
Extra Length Harness

- #60103 - GM TPI 5.0L and 5.7L - 1990-92  
(Map Sensor/Speed Density)
- #60203 - GM TPI 5.0L and 5.7L - 1990-92  
(Map Sensor/Speed Density)  
Extra Length Harness

## GM VORTEC MULTI-PORT FUEL INJECTION HARNESSSES (L30,L31,L35,7400)

#60211 - GM 7.4L Big Block -1996-2000

#60216 - GM 7.4L Big Block -1996-2000  
Extra Length Harness

#60212 - GM Vortec V8 5.0L and 5.7L -1996-99

#60213 - GM Vortec V8 5.0L and 5.7L -1996-99  
Extra Length Harness

#60214 - GM Vortec V6 4.3L -1996-99

#60215 - GM Vortec V6 4.3L -1996-99  
Extra Length Harness

## GM VORTEC SEQUENTIAL FUEL INJECTION HARNESSSES (LR4,LM7,LQ4,LQ9)

#60217 - GM Vortec V8 4.8, 5.3, 6.0L -1999- Later  
(Mechanical throttle only)  
(NOT for Flex Fuel Engines)

#60218 - GM Vortec V8 4.8, 5.3, 6.0L -1999- Later  
(Mechanical throttle only)  
Extra Length Harness

#60219 - GM Vortec V8 4.8, 5.3, 6.0L -2000- 2002  
(Electronic throttle only)  
(NOT for Flex Fuel Engines)

#60220 - GM Vortec V8 4.8, 5.3, 6.0L -2000- 2002  
(Electronic throttle only)  
(NOT for Flex Fuel Engines)

**Important -**  
For specific application information refer  
to the F.I. application chart on page 34

## GM 4.8L, 5.3L 6.0L FUEL INJECTION HARNESS

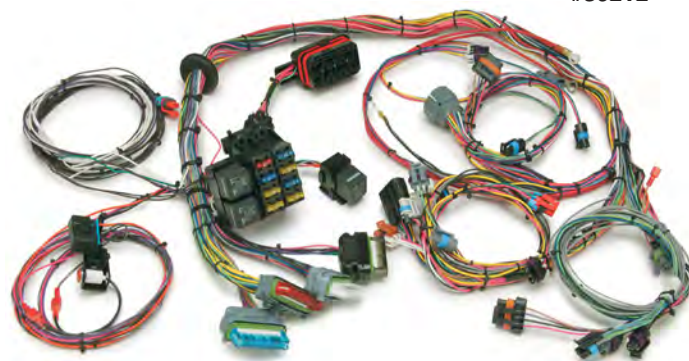
#60221 - 4.8L, 5.3L 6.0L Fuel Injection Harness

00000 - 4.8L, 5.3L 6.0L Fuel Injection Harness  
with 4' extra length

Designed for 2003-2006 throttle-by-wire 4.8L, 5.3L, 6.0L GM engines using the factory ECM. Will work with Flex Fuel engines.



#60211

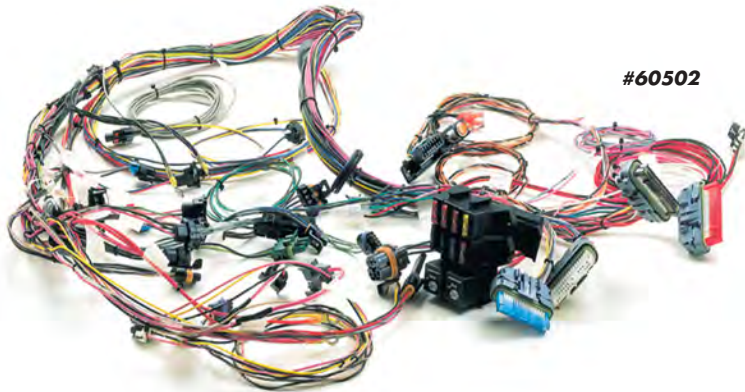


#60212



#60221

### GM SEQUENTIAL FUEL INJECTION HARNESSES (LT1,LT4, L99,LS1,LS2,LS6)



#60502

#60502 - GM LT1 1992 - 97

#60505 - GM LT1 1992 - 97  
Extra Length Harness

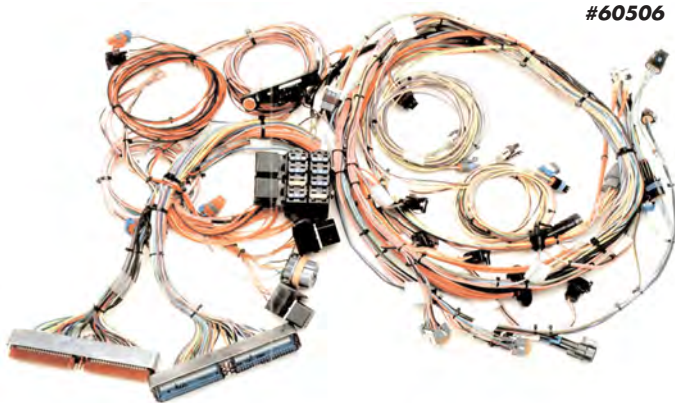
Note: Some modifications required on '92-'94 LT1

#60506 - GM LS1 1997 - 98

#60507 - GM LS1 1997 - 98  
Extra Length Harness

#60508 - GM LS1 1999 - 02

#60509 - GM LS1 1999 - 02  
Extra Length Harness



#60506

#60522 - GM LS1/LS6 1997-04  
(Electronic Throttle)

#60523 - GM LS1/LS6 1997-04  
(Electronic Throttle)  
Extra Length Harness

#60520 - GM LS2 - 2005

#60521 - GM LS2 - 2005  
Extra Length Harness

**NEW!**

### HARNESSES KITS WITH REFLASHED OEM PCM

(Not Shown - see our website for more information and photos)  
These kits include a Powertrain Control Module, custom flashed to your specifications, a wiring harness with connections for fuel injection and transmission operation, injectors, coils, CMP, CKP, knock, VSS, transmission, and front bank 1 and 2 - O2 sensors. Harness incorporates its own 8 circuit fuse block with ignition relays and connection to factory style fuel pump relay. Harness does not support any emissions related connections. Harness length allows mounting of components under dash or in glove box location.

**NOTE: Call Painless sales techs directly to discuss these kits and our custom reflashing services.**

#60008 - GM 1997 - 2004 LS1- LS6 (cable throttle)  
Fuel Injection harness custom flashed PCM

#60508 - Harness only for OEM PCM

#60009 - GM 1997 - 2004 LS1- LS6 (cable throttle)  
Fuel Injection harness with custom flashed PCM

#60509 - Harness only for OEM PCM

#60017 - GM 1999 - 2006 Vortec 4.8L, 5.3L, 6.0L  
(mechanical throttle body) Fuel Injection harness  
with custom flashed PCM

#60217 - Harness only for OEM PCM

#60026 - GM 2007-Up Gen IV Engine and Trans harness  
with custom flashed ECM and TCM

#60526 - Harness only for OEM PCM

## GM GEN III FUEL INJECTION HARNESSSES (Electronic Throttle)

**#60219** - GM Gen III V8 4.8, 5.3, 6.0L -2000- 2002  
(electronic throttle by wire only)  
(NOT for Flex Fuel Engines)

**#60220** - GM Gen III V8 4.8, 5.3, 6.0L -2000- 2002  
Extra Length Harness  
(electronic throttle by wire only)  
(NOT for Flex Fuel Engines)

## GM LS2, LS3, LS7 FUEL INJECTION HARNESS

Designed for 2006-2008 LS2, LS3 and LS7 GM engines using the factory ECM. For use only with 4L60, 4L65 or manual transmissions.

**#60524** - LS2, LS3 L99 Fuel Injection Wiring Harness

## PERFECT CALTOOL EFI TUNING PACKAGES FOR LS2, LS3, LS7

This system includes a Painless custom EFI harness, MEFI 4B ECM and the PERFECTION Cal Tool Software allowing you tune your engine for almost any performance modification. Kit includes calibration for the LS2 and LS3 engines.

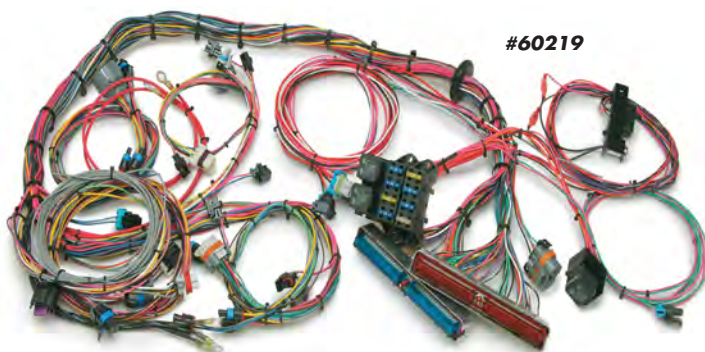
LS7 owners will be provided a base calibration but will need to fine tune the system for proper operation.

**#65254** - PERFECT CalTool EFI Package  
LS2, LS3, LS7 without Throttle Body

**#65255** - PERFECT CalTool EFI Package LS2,3,7 with 65303 Throttle Body (see below). This is the same kit as the 65254 with the 95MM PERFECT HI-VELOCITY throttle body included.

**#65256** - PERFECT CalTool EFI Package LS2,3,7 with 65303 Throttle Body and Performance Camshaft. This kit will include everything in the 65255 kit plus the addition of a Comp Cams performance camshaft. This combination will give you an 80 horsepower increase over the stock LS2.

#60219



# PERFECT™

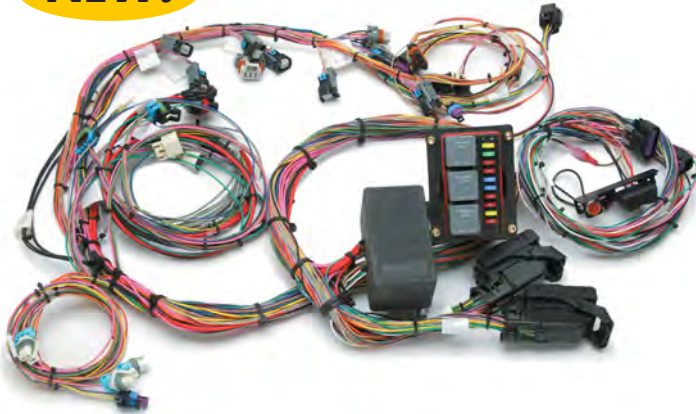


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**NEW!**



### **GM 4.8, 5.3, 6.2L WITH 4L65-80-85E FUEL INJECTION HARNESS**

**#60526** - The latest fuel injection harness from Painless for the very popular GM Gen IV truck engine swap. Transplant a GM truck engine and electronic automatic transmission into a non-EFI vehicle. The harness uses the factory ECM and TCM that came with the 2007-10 engine and transmission combination. The harness will operate both Variable Valve Timing and Active Fuel Management (Displacement on Demand) engines with either a 4L65E, 4L80E or 4L85E transmission. Includes a 40-amp fan relay and wiring to add a second 40-amp PCM controlled fan relay. A 40-amp fuel pump relay and 4 gauge alternator charge wire are included in the kit.

**Important -  
For specific application information refer  
to the F.I. application chart on page 34**

**NEW!**



### **INTEGRATED LS1/CHASSIS HARNESS**

**#60608** - This is the perfect solution for anyone doing a complete rewire of a vehicle as well as transplanting an LS1 engine. The chassis wiring and the engine wiring are fully integrated into a single 26-circuit / 7 relay fuse block, eliminating the need to have separate fuses and relay banks for the engine harness. This kit is designed for use with 1997-2004 LS1 engines with mechanical throttle body mated to a 4L60E transmission in any vehicle in which a standard 18-circuit, GM-color coded chassis harness would be appropriate.

- Integrated LS1/Chassis Harness

**NEW!**



### **GEN III VORTEC / 4L60E INTEGRATED FUEL INJECTION / CHASSIS HARNESS**

**#60617** - The perfect solution if you're completely wiring a vehicle to include a Gen III Vortec truck engine with 4L60E transmission. The entire vehicle operation, fuel injection and chassis wiring is contained in a single fuse block. The 26-Circuit harness can be installed with the ECM in the engine compartment, under the dash or under the front seat. There is only one fuse block to mount. Designed to operate 1999-2005 4.8/5.3/6.0L engines with mechanical throttle body and 4L60E transmission. Harness only plugs into Delphi Multec 2 injectors. Does not support Flex Fuel.

**PERFECT™**

**PERFECT TORC**

**TRANSMISSION CONTROLLER FOR 4L60/65E AND 4L80/85E**

**#66501** - This stand alone transmission controller handles the four speed overdrive GM electronically controlled 4L60/5E and 4L80/5E transmissions and can be used with any fuel injected or carbureted application, gas or diesel. It uses a laptop interface to calibrate shift points and line pressures. A VSS output is included for EFI swaps and aftermarket speedometers. Allows for paddle shifting and has two separate shift tables for both street and performance shifting. Ford and Chrysler applications available in the near future.

**TRANS TORQUE CONVERTER LOCK-UP KITS**

Control the lockup converter on your overdrive transmission with your carbureted engine and not have to buy an expensive computer! With our easy to install Lock-Up Kit you don't need the computer or speed sensor. A vacuum controlled switch and a 4th gear pressure switch/lock up solenoid combination controls the lockup. Brake switch for disengaging also included. Comes with everything to complete the job including a pan gasket.

- #60109** - For 700R4 transmissions
- #60110** - For 200-4R transmissions

**EMISSIONS HARNESES FOR FUEL INJECTION**

Installing a Painless fuel injection harness and want to keep all your emissions devices intact? The Painless solution is to install a Painless emissions harness. These harnesses activate the necessary devices to meet local emissions standards.

See the F.I. application chart on page 34 for specific applications.

**GM GEN IV TACH DRIVER**

**#60150** - The Gen IV Tach Driver converts the crank signal from any 2007 and up General Motors Gen IV 58X crank wheel V8 engine into a signal readable by most aftermarket tachometers. Simple four wire hookup with power, ground, signal in and signal out. No cutting of fuel injection wire harness required. The Tach Driver will work with any aftermarket tachometer that is 12 volt negative coil driven.

**NEW!**

**#66501**



**#60109**



**NEW!**

**#60150**





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### VATS MODULE

**#64023** - Anti-Theft bypass for 1990-92 GM Tuned Port Engines. (Use with Painless harness #60103 or #60203)

**#64024** - Anti-Theft bypass for 1992-02 GM LT1 and LS1 Engines. Note: VATS module will not work with Corvette ECM

### EXTERNAL COIL CABLES

**#60124** - Connects external coil to distributor on TBI & TPI engines.

**#60125** - Connects power and tach to coil on TBI & TPI engines.

### PARK NEUTRAL RELAY KIT

**#60122** - This kit uses the stock neutral safety switch to also provide for ECM park/neutral ground signal needed when installing factory-style fuel injection into older vehicles. For use with any aftermarket shifter or column mounted neutral safety switch.

### NEUTRAL SAFETY/BACKUP LIGHT KIT

**#80175** - This kit is engineered to perform as a neutral safety switch or a backup-light switch by using one of two trigger levers included. Fits GM Turbo 350, 400 and 700R4 transmissions.

### THROTTLE BODY ADAPTER

**#60118** - Now you can convert from carburetion to TBI without having to replace your manifold. This adapter bolts on any square or spread bore manifold and accepts any 43mm bore throttle body from 4.3L, 5.0L and 5.7L GM engines.

### PRE-WIRED CROSSFIRE ADAPTER

**#60112** - Adapts our 60101 and 60210 TBI harnesses to the crossfire systems used on Corvettes, Camaros and Firebirds. Kit includes: 2 rubber seals for injector wires and an idle air control (IAC) adapter which plugs into the 60101 or 60201 TBI harness to split the signal of both IACs. Instructions included.

### SPEED SENSOR

**#60115** - For 1985-89 TPI and all TBI systems. (2 pulse)

**#60116** - For 1990-92 TPI and early LTI systems. (4 pulse)

### OXYGEN SENSOR FITTING

**#60406** - Weld-in oxygen sensor fitting for all fuel injection systems.

### LS COIL EXTENSION HARNESS

**#60127** - Includes two 24" pigtails to allow relocating coils off the valve covers. Factory color coded wires and weatherproof connectors. One drivers side, one passenger side pigtail.

### EV1/BOSCH STYLE INJECTOR CONNECTOR

**#60130** - If you need to repair crushed or broken connectors on your factory harness or are converting over to the EV1/Bosch injectors found on modern multi-port fuel injection systems, Painless now offers this repair/change over kit. Contains terminals and connectors for 8 injectors.

### EV6/USCar INJECTOR CONNECTOR

**#60131** - If you need to repair crushed or broken connectors on your factory harness or are converting over to the EV6/USCar injectors found on modern multi-port fuel injection systems, Painless now offers this repair/change over kit. Contains terminals, seals, terminal locks, and connectors for 8 injectors.

2192931

## 2011 PAINLESS FUEL INJECTION HARNESSSES

### Application

### Factory ECM Based Painless Fuel Injection Systems and Components

### Perfect Engine Management Based Fuel Injection Systems and Components

Make	Year	Model	Year	Engine Size	Year	Engine Size	Year	Engine Size	Year	Engine Size	Year	Engine Size	Year	Engine Size	Year	Engine Size	Year	Engine Size	Year	Engine Size	Year	Engine Size	Year	Engine Size			
General Motors	99-02	Corvette	GM	5.7L	00-02	5.7L	00-02	5.7L	00-02	5.7L	00-02	5.7L	00-02	5.7L	00-02	5.7L	00-02	5.7L	00-02	5.7L	00-02	5.7L	00-02	5.7L	00-02		
			60101	60201	N/A	60115	60312	60313	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.									
			60101	60201	N/A	60115	60312	60313	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.									
			60101	60201	N/A	60115	60312	60313	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.									
			60101	60201	N/A	60115	60312	60313	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.									
			60101	60201	N/A	60115	60312	60313	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.									
	Ford	Ford	GM	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02
			60510	60511	N/A	60117	60322	60323	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.									
			60510	60511	N/A	60117	60322	60323	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.									
			60510	60511	N/A	60117	60322	60323	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.									
			60510	60511	N/A	60117	60322	60323	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.									
			60510	60511	N/A	60117	60322	60323	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.									
Chrysler	Chrysler	GM	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	4.6L	00-02	
		60250	60250	N/A	60117	60322	60323	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.										
		60250	60250	N/A	60117	60322	60323	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.										
		60250	60250	N/A	60117	60322	60323	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.										
		60250	60250	N/A	60117	60322	60323	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.										
		60250	60250	N/A	60117	60322	60323	122747	1613842	200-4R/ 700-R4	N/A	60106	60608 (Use with Painless 60700 PCM)	65104	65246	65247	1666 and 1997 LT1 require the 60126 coil kit.										

Note to Painless Performance Dealers - Verify all information before ordering. Contact Painless Tech Support at (800) 423-9696.

**NEW!**

**Weather Resistant Sealed Switches**

**Interchangeable Switch Covers**

**Black Non-Glare Metal Housing**



**Charge Indicator Light**

**Each Circuit Fuse Protected**



**4, 6 or 8 Switch Panels Available**



#80420

#80421

#80422



#80430

#80434

#80439

#80445

### CONTOUR ROCKER SWITCH PANELS

The rocker switches in these panels are not only stylish but practical as well. The covers are interchangeable so each panel can be customized to each user's needs without having to purchase all new switches. Each switch is also fully sealed for protection against the elements. Finally, each panel features a charge indicator LED light. Panels come with 18 foot TXL wiring harness.

# 50321 - 6-Switch Panel

### CONTOUR ROCKER SWITCHES

These sleek new rocker switches are not only stylish but are very versatile as well. The replaceable covers allow the user to customize each switch to taste and function. Colors and styles are easily swapped out for a personalized look. Each switch is sealed and fully protected from the elements.

#80420 - Lighted Contour Rocker Switch (On/Off)

#80421 - Lighted Contour Rocker Switch (On/Off/On)

#80422 - Lighted Contour Rocker Switch (Momentary On/Off)

#80425 - Lighted Contour Rocker Switch Kit (6 Switches/6 Covers)

#80430 - Single Lens Switch Cover - Red

#80431 - Single Lens Switch Cover - Blue

#80432 - Single Lens Switch Cover - Amber

#80433 - Double Lens Switch Cover - Red

#80434 - Double Lens Switch Cover - Green

#80435 - Black Lens Switch Cover

#80436 - Double Oval Rocker Switch Cover - Amber

#80437 - Double Oval Rocker Switch Cover - Green

#80438 - Oval/Bar Rocker Switch Cover - Red

#80439 - Oval/Bar Rocker Switch Cover - Blue

#80440 - Oval/Bar Rocker Switch Cover - Amber

#80441 - Oval/Bar Rocker Switch Cover - Green

#80445 - Black Rocker Switch Cover - No Lens

## ROLL BAR MOUNT FUSED ROCKER SWITCH PANELS

Designed with input from some of the best drag racers in the country, Painless switch panels feature: Heavy-duty lightweight non-reflective housing designed to mount to a roll bar using standard metal hose clamps. Lighted rocker switches are color coded for quick visual reference. All circuits individually fused and easily accessible for quick testing and replacement. All units come complete with 18' of high temp TXL wire using machine applied, vibration resistant, fully insulated terminals.

**#50301** - 4 Switch Panel Controls: Start, Ignition, 2 accessories.

**#50302** - 6 Switch Panel Controls: Start, Ignition, Fuel Pump, Electric Fan/Water Pump, and Two Accessories.

**#50303** - 8 Switch Panel Controls: Start, Ignition, Electric Fan, Fuel Pump #1, Fuel Pump #2, Water Pump, Lights and One Accessory.

**#50506** - 6 Switch In-Line Panel Controls Start, Ignition, Fuel Pump, Water Pump/Fan\*, and Two Accessories. Use in vertical or horizontal position.

(\*Three position switch for Water Pump/off/Water Pump and Fan)



#50301



#50302



#50303



#50506

## CIRCUIT BREAKER PROTECTED ROCKER SWITCH PANELS

The most popular switch panels in drag racing today are now even better. These new switch panels feature circuit breakers in place of standard fuses, so if you're on the line and circuit blows, it can be reset with just a touch. Features also include color-coded lighted rocker switches for easy identification, 18 ft. of the highest grade TXL wire, vibration resistant terminals and a black finish for reduced glare.

**#50304** - 4 Switch rocker panel

**#50305** - 6 Switch rocker panel

**#50306** - 8 Switch rocker panel

**#50603** - 4 Switch nitrous rocker panel



#50305

Made With Pride  
In The USA



See Page 43 For Panel Dimensions

#50404



#50406



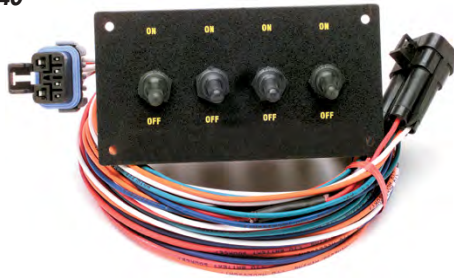
#50408



#50830



#50840



### DASH MOUNT NON-FUSED ROCKER SWITCH PANELS

Looking to mount your switches in the dash rather than on a roll bar? Then these new non-fused panels are your answer. Available in four, six or eight switch versions, these heavy-duty, light-weight panels are pre-assembled with vibration-resistant terminals and 18 feet of the best high temperature wiring available.

**#50404** - 4 Switch Controls: Start, Ignition, 2 accessories.

**#50406** - 6 Switch Controls: Start, Ignition, Fuel Pump, Water Pump/Fan and 2 accessories.

**#50408** - 8 Switch Controls: Start, Ignition, Electric Fan, Fuel Pump #1, Fuel Pump #2, Water Pump, Lights and One Accessory.

### WATERPROOF IGNITION CONTROL CENTERS

**#50830** - 3 Switch panel with one push button waterproof start switch, waterproof toggle and waterproof accessory switch with 18 foot pre-terminated wiring harness.

**#50840** - 4 Switch waterproof toggle switch panel with pre-terminated 18 foot wiring harness.

See Page 43 For Panel Dimensions

## FUSED TOGGLE SWITCH PANELS

Ideal for race or street cars, off-road and trucks or utility vehicles, these proven switch centers from Painless are just what you need. These anodized, brushed aluminum panels are available in four, six and eight switch versions. Painless toggle switch panels feature: Heavy-duty lightweight non-reflective housings designed to mount to the dash or to a roll bar using standard metal hose clamps. All circuits individually fused and easily accessible for quick testing and change. All units come complete with 18' of high temp TXL wire using machine applied, vibration resistant, fully insulated terminals.

**#50307** - 4 Switch toggle panel

**#50308** - 6 Switch toggle panel

**#50309** - 8 Switch toggle panel

**#50602** - 4 Switch nitrous toggle panel

**#50307**



**#50308**



## UNIVERSAL TOGGLE SWITCH PANELS

Our basic non-fused toggle panel kits. Features brushed aluminum finish, 18 feet of the highest grade TXL wire, vibration resistant terminals and premium grade toggle switches. Comes with peel and stick labels for custom wiring.

**#50413** - Dash Mount 4 Switch Toggle Panel

**#50414** - Roll Bar Mount 4 Switch Toggle Panel

**#50415** - Dash Mount 6 Switch Toggle Panel

**#50416** - Roll Bar Mount 6 Switch Toggle Panel

**#50417** - Dash Mount 8 Switch Toggle Panel

**#50418** - Roll Bar Mount 8 Switch Toggle Panel

**#50416**

**#50414**

**#50418**



Made With Pride  
In The USA



See Page 43 For Panel Dimensions



#50410



#50412



#50411



#50604



#50318



### PRO STREET/STOCK PANEL

#50410 - 8-switch Pro Street panel which includes: Push Button Start, Toggle-Ignition, Fuel Pump, Fan, Park/Head Lights, Turn Signals and Horn.

### PRO STOCK PANEL

#50412 - 6-switch Pro Stock panel which includes: Push Button Start, Toggle-Ignition, Fuel Pump, Water Pump/Fan and Two Accessories.

### NITROUS PANEL

#50411 - 4-switch Nitrous panel which includes: Toggle Main Power On, Fuel Pump, Push Button Purge #1 and Push Button Purge #2.

### NITROUS ROCKER SWITCH PANEL

#50604 - Painless fused switch control panel for nitrous application. The four lighted on/off rocker switches control main power plus 3 nitrous stages. The main power switch is protected with a 30 amp fuse, while the 3 staging switches have 15 amp fuses. Includes an output wire for purge functions and an output for WOT relay. The brushed aluminum panel is prewired with 10 feet of light weight, high temp TXL wire.

### ALA CARTE ROCKER-SWITCH PANELS

This universal rocker switch panel comes in 4, 6 or 8 circuit variations and is complete with stick-on labels for a truly custom look. All panels feature lighted switches in various colors. Additional switches are included for custom wiring.

#50313 - 4-Switch Universal Rocker Panel - Dash Mount

#50314 - 4-Switch Universal Rocker Panel - Roll Bar Mount

#50315 - 6-Switch Universal Rocker Panel - Dash Mount

#50316 - 6-Switch Universal Rocker Panel - Roll Bar Mount

#50317 - 8-Switch Universal Rocker Panel - Dash Mount

#50318 - 8-Switch Universal Rocker Panel - Roll Bar Mount

See Page 43 For Panel Dimensions

## CARBON FIBER MUSTANG POWER PANELS

These race quality carbon fiber switch panels add styling and functionality to your Mustangs as well as provide a convenient way to mount switches. The Power Panels mount in the radio/stereo location of 1987-93 Mustangs and are available with either lighted rocker switches or toggle switches with LEDs. Hide-A-Panels fit in the ashtray location of 1987-97 Mustangs. Choose from a kit with four lighted rocker switches or a nitrous kit with three lighted rockers and one momentary switch for purge function. Each panel includes 18 feet of high temp TXL wiring.

**#50430** - Rocker Switch Mustang Power Panel

**#50431** - Toggle Switch Mustang Power Panel

**#50432** - Mustang Carbon Fiber Hide-a-Panel

**#50433** - Mustang Carbon Fiber Nitrous Hide-a-Panel



## ASHTRAY COVER SWITCH PANELS

These four switch kits install easily in the ashtray location of 1987-97 Mustangs. Choose from four lighted rocker switches or the nitrous version which has three lighted switches plus a momentary switch for purge functions. Included in each kit is a start button which installs in the cigarette lighter location.

**#50213** - 4 Switch kit with start button.

**#50423** - 4 Switch kit with nitrous purge and start buttons.



## MUSTANG HIDE-A-PANEL

**#50212** - No convenient place in the car to mount a switch panel? Painless Hide-A-Panel is easily installed in the ashtray location of all 1987-97 Mustangs. Assembled unit includes faceplate, 4 lighted rocker switches, TXL wire, and mounting hardware.

**#50212**



## MUSTANG NITROUS HIDE-A-PANEL

**#50422** - This ashtray mount panel is ideal for Mustang racers looking to conceal their nitrous capability. Includes three lighted on/off rocker switches and one momentary switch for purge function. Comes fully assembled and complete with mounting hardware. Fits 1987-97 Mustangs.

**#50422**



## MUSTANG RADIO ROCKER SWITCH PANELS

Mounts in radio/stereo location of Mustangs. Kit includes six colored LEDs, six heavy duty on/off toggle switches, one each of momentary and on/off/on switches color-coded TXL wire.

**#50210** - Fits 1979-86 Mustangs.

**#50211** - Fits 1987-93 Mustangs.

**#50210**



## MUSTANG RADIO TOGGLE SWITCH PANELS

Mounts in radio/stereo location of Mustangs. Kit includes six colored LEDs, six heavy duty on/off toggle switches, one each of momentary and on/off/on switches color-coded TXL wire.

**#50420** - Fits 1979-86 Mustangs.

**#50421** - Fits 1987-93 Mustangs.

**#50420**



#50330



#50333



#50334



#50337



**NEW!**

#50340



#50341



### WEATHERPROOF OFF-ROAD SWITCH PANELS

These new switch panels are the only panels to consider if your vehicle will be subject to harsh outdoor conditions. They feature a formed polyethylene liner to seal the face plate to the dash or chassis, creating a water-resistant seal. The panel includes a keyed ignition switch for added security. All switches and circuit breakers are protected by weather resistant boots and all circuits are protected with circuit breakers. All units come complete with 18' of high temp TXL wire using machine applied, vibration resistant, fully insulated terminals. These kits are shipped unassembled with peel and stick labels for custom applications.

#50330 - 4 Toggle Off-Road Switch Panel, Dash Mount

#50331 - 4 Toggle Off-Road Switch Panel, Roll Bar Mount

#50332 - 6 Toggle Off-Road Switch Panel, Dash Mount

#50333 - 6 Toggle Off-Road Switch Panel, Roll Bar Mount

### PUSH BUTTON START OFF-ROAD SWITCH PANELS

Following the successful introduction of our Off-Road Switch Panels in 2005, we had many requests for a similar panel but with a push button rather than a keyed start. So here you are, available as dash or roll bar mount and with four or six toggle switches.

#50334 - 4 Switch, dash mount

#50335 - 4 Switch, roll bar mount

#50336 - 6 Switch, dash mount

#50337 - 6 Switch, roll bar mount

See Page 43 For Panel Dimensions

### EXTREME OFF-ROAD SWITCH PANELS

These new waterproof switch panel kits contain extra switches to customize the panel for any use. Includes momentary, on/off and on/off/on toggle switches, choice of keyed or push button start and colored LED lights. These panels contain no wire but work great with our Extreme Offroad Harness #10144 (See page 19)

#50340 - 6 Switch Off Road Panel with Key

#50341 - 6 Switch Off Road Panel with Push Button

## REPLACEMENT ROCKER SWITCHES

Fits cut-out dimensions of  $1\frac{3}{16}$ " x  $1\frac{7}{16}$ "

- #80400 - Momentary On (non-lighted)
- #80401 - On/Off - Red Light
- #80402 - On/Off/Momentary On - Green Lights
- #80403 - On/Off/On - Red Lights
- #80404 - On/Off - Amber Light
- #80405 - On/Off - Blue Light

## REPLACEMENT DIODE

- #80111 - Diode

## OEM FITMENT ROCKER SWITCHES

Fits standard rectangular cutouts found in GM, Ford, Toyota, Etc.  $1\frac{3}{16}$ " x  $1\frac{7}{16}$ "

- #80407 - On/Off Single Pole - Amber Light
- #80408 - On/Off/On Single Pole - Amber Lights
- #80409 - On/Off Double Pole - Blue Light

## MINI ROCKER SWITCHES

Fits cut-out dimensions of  $1\frac{1}{2}$ " x  $\frac{1}{2}$ "

These are the same switches used in our Mustang Hide-a-Panels. Available in red, blue, green, amber and momentary (no light).

- #80411 - Momentary - (non-lighted)
- #80412 - On/Off Single Pole - Blue Light
- #80413 - On/Off Single Pole - Green Light
- #80414 - On/Off Single Pole - Amber Light
- #80415 - On/Off Single Pole - Red Light

## MIL SPEC TOGGLES

- #80510 - Off/momentary on SPST
- #80511 - Off/on SPST

By far the most reliable switches you can find. Internally sealed, this switch is used extensively in military aircraft. Switch design allows terminals to be screwed directly to the switch housing eliminating the tab mount that can sometimes break loose.

## HEAVY DUTY TOGGLES All 20 amp

- #80501 - Off/Momentary on, single pole/single throw
- #80502 - Off/on, single pole/single throw
- #80512 - On/off/on, single pole/double throw
- #80513 - Off/on, double pole/single throw
- #80514 - On/off/on, double pole/double throw

## WATERPROOF TOGGLES All 20 amp

- #80530 - On/off, single pole/single throw
- #80531 - Off/momentary on, single pole/single throw
- #80532 - On/off/on, single pole/double throw
- #80533 - Off/on, double pole/single throw
- #80534 - On/off/on, double pole/double throw  
(All Include boot 80520 shown far right)

## WATERPROOF SWITCH BOOT

- #80520 - Use shaft mounted toggles with  $1\frac{5}{32}$ " threads.

## REPLACEMENT CIRCUIT BREAKERS

Push-in manual reset circuit breakers.

- #80107 - 10 amp breaker
- #80108 - 15 amp breaker
- #80109 - 20 amp breaker
- #80110 - 30 amp breaker





#80529

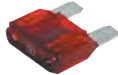


#80528

#80521



#80102



#80101



**WATERPROOF UNIVERSAL KEYED IGNITION SWITCH #80529** - Fits 3/4" hole.

**EXTREME CONDITION PUSH BUTTON MOMENTARY START #80528** - Fits 5/8" hole.

**AIRCRAFT SWITCH COVER #80521** - Shields all shaft mounted toggles for extra safety.

**MAXI FUSE ASSEMBLY #80101** - Maxi-Fuse Assembly with 70 amp Maxi-Fuse and cover.

**REPLACEMENT MAXI FUSE #80102** - 70 Amp Maxi-Fuse only

PART	DESCRIPTION	H x W x D	PART	DESCRIPTION	H x W x D
50201	8 Switch Rocker Panel - Dash Mount	3 x 10.75 x 3.125	50404	4 Switch Rocker Panel - Dash Mount	3 x 5.75 x 2.5
50202	8 Switch Rocker Panel - Roll Bar Mount	3 x 10.75 x 3.125	50406	6 Switch Rocker Panel - Dash Mount	3 x 5.75 x 2.5
50210	6 Switch Mustang Rocker Panel '79-'86	2.875 x 8 x 3.125	50408	8 Switch Rocker Panel - Dash Mount	3 x 5.75 x 2.5
50211	6 Switch Mustang Rocker Panel '87-'93	5 x 8.5 x 3.125	50410	8 Switch ProStreet Toggle Panel - Dash Mount	3.125 x 10.75 x 2.5
50212	4 Switch Mustang Hide-A-Panel '87-'97	4.25 x 2.25 x 2.5	50411	4 Switch Nitrous Toggle Panel - Dash Mount	3.125 x 5.75 x 2.5
50213	4 Switch Mustang Hide-A-Panel w/start button '87-'97	4.25 x 2.25 x 2.5	50412	6 Switch ProStreet Toggle Panel - Dash Mount	3.125 x 8.25 x 2.5
50301	4 Switch Fused Rocker Panel - Roll Bar Mount	3 x 5.75 x 3.125	50413	4 Switch Universal Toggle Panel - Dash Mount	3.125 x 5.75 x 2.5
50302	6 Switch Fused Rocker Panel - Roll Bar Mount	3 x 8.75 x 3.125	50414	4 Switch Universal Toggle Panel - Roll Bar Mount	3.125 x 5.75 x 2.5
50303	8 Switch Fused Rocker Panel - Roll Bar Mount	3 x 10.75 x 3.125	50415	6 Switch Universal Toggle Panel - Dash Mount	3.125 x 8.25 x 2.5
50304	4 Switch Circuit Breaker Rocker Panel - Roll Bar Mount	3 x 5.75 x 3.125	50416	6 Switch Universal Toggle Panel - Roll Bar Mount	3.125 x 8.25 x 2.5
50305	6 Switch Circuit Breaker Rocker Panel - Roll Bar Mount	3 x 8.75 x 3.125	50417	8 Switch Universal Toggle Panel - Dash Mount	3.125 x 10.75 x 2.5
50306	8 Switch Circuit Breaker Rocker Panel - Roll Bar Mount	3 x 10.75 x 3.125	50418	8 Switch Universal Toggle Panel - Roll Bar Mount	3.125 x 10.75 x 2.5
50307	4 Switch Fused Toggle Panel - Roll Bar Mount	3 x 5.75 x 3.125	50420	6 Switch Mustang Toggle Panel w/Lights '79-'86	2.875 x 8 x 3.125
50308	6 Switch Fused Toggle Panel - Roll Bar Mount	3 x 8.75 x 3.125	50421	6 Switch Mustang Toggle Panel w/Lights '87-'93	5 x 8.5 x 3.125
50309	8 Switch Fused Toggle Panel - Roll Bar Mount	3 x 10.75 x 3.125	50422	4 Switch Mustang Nitrous Hide-A-Panel '87-'97	4.25 x 2.25 x 2.5
50313	4 Switch Universal Rocker Panel - Dash Mount	3.125 x 5.75 x 2.5	50423	Mustang Nitrous Hide-A-Panel w/Start Button '87-'97	4.25 x 2.25 x 2.5
50314	4 Switch Universal Rocker Panel - Roll Bar Mount	3.125 x 5.75 x 2.5	50430	Mustang Rocker Power Panel '87-'93	5 x 8.5 x 3.125
50315	6 Switch Universal Rocker Panel - Dash Mount	3.125 x 8.25 x 2.5	50431	Mustang Toggle Power Panel '87-'93	5 x 8.5 x 3.125
50316	6 Switch Universal Rocker Panel - Roll Bar Mount	3.125 x 8.25 x 2.5	50432	Mustang Rocker Hide-A-Panel '87-'97	4.25 x 2.25 x 2.5
50317	8 Switch Universal Rocker Panel - Dash Mount	3.125 x 10.75 x 2.5	50433	Mustang Toggle Hide-A-Panel '87-'97	4.25 x 2.25 x 2.5
50318	8 Switch Universal Rocker Panel - Roll Bar Mount	3.125 x 10.75 x 2.5	50506	6 Switch Fused Vertical Dragster Rocker Panel	15.5 x 1.5 x 2.5
50320	4 Switch Contour Rocker Panel	3 x 5.75 x 3.125	50602	4 Switch Fused Nitrous Toggle Panel- Roll Bar	3 x 5.75 x 3.125
50321	6 Switch Contour Rocker Panel	3 x 8.75 x 3.125	50603	4 Switch Circuit Breaker Nitrous Rocker - Roll Bar	3 x 5.75 x 3.125
50322	8 Switch Contour Rocker Panel	3 x 10.75 x 3.125	50604	4 Switch Fused Nitrous Rocker Panel- Roll Bar	3 x 5.75 x 3.125
50330	4 Switch Offroad Toggle Panel - Dash Mount	3 x 8.625 x 2.5	50710	Master Disconnect Switch w/Panel	3.5 x 3.5 x 3
50331	4 Switch Offroad Toggle Panel - Roll Bar Mount	3 x 8.625 x 2.5	50830	3 Switch Waterproof Toggle panel - Dash Mount	3 x 3.5 x 2.75
50332	6 Switch Offroad Toggle Panel - Dash Mount	3 x 10.75 x 2.5	50840	4 Switch Waterproof Toggle panel - Dash Mount	3.5 x 5.75 x 2.75
50333	6 Switch Offroad Toggle Panel - Roll Bar Mount	3 x 10.75 x 2.5			
50334	4 Switch Offroad Toggle Panel - Dash Mount	3 x 8.625 x 2.5			
50335	4 Switch Offroad Toggle Panel - Roll Bar Mount	3 x 8.625 x 2.5			
50336	6 Switch Offroad Toggle Panel - Dash Mount	3 x 10.75 x 2.5			
50337	6 Switch Offroad Toggle Panel - Roll Bar Mount	3 x 10.75 x 2.5			
50340	6 Switch Offroad Toggle Panel - Roll Bar Mount	3 x 10.75 x 2.5			
50341	6 Switch Offroad Toggle Panel - Roll Bar Mount	3 x 10.75 x 2.5			

**NEW!**

***The First Choice Of Professional Racers For 21 Years***

## F5 DUAL FAN CONTROLLER

**#30140** - Electric cooling fans have become a mainstay when it comes to keeping any type of vehicle's engine cool. This new state-of-the-art fan control system is rated to control two 35 Amp cooling fans. Controller features include dual cooling fan control from 50% up to 100%; A/C compressor override that runs the fans at 100% duty cycle if air conditioning is kicked on. The F5 control system includes an underhood rated solid-state pulse-width modulator controller, a 3/8 NPT threaded temperature sensor, large gauge fan wires and a labeled vehicle integration wire harness, mounting hardware and a 70 amp fuse and connectors. Kit also includes a three position toggle switch that gives you manual control of the cooling fans: Position one is 100% fan on, Position two is normal operation, Position three is 0% fan or fan off. Also included is a push button switch used to set the vehicle speed at which you want the cooling fans to shut off. Complete illustrated installation manual included.

**#30142** - F5 Dual 35 Amp Fan PWM Controller w/Metric Sensor. Same as 30140 with a metric 12x1.5MM for Gen III and Gen IV engines.

## F5 SINGLE FAN CONTROLLER

**#30141** - Controls one 70 AMP electric fan. Fan is pulse width modulated to operate between 50%-100% to control coolant temperatures. Fan operates same as 30140 otherwise.

**#30143** - F5 Single Fan Controller w/Metric Sensor. Same as 30141 with a metric 12x1.5MM for Gen III and Gen IV engines.

## A/C ACTIVATED COOLING FAN RELAY

Want your cooling fan to kick in automatically when your A/C comes on? This is the relay kit you need. Your cooling fan will activate when the engine reaches the preset temperature of the thermostatic switch or when the A/C is turned on.

**#30114** - A/C activated fan relay with 200/180 thermostat

**#30115** - A/C activated fan relay with 185/170 thermostat

## DUAL FAN / DUAL ACTIVATED COOLING FAN RELAY

**#30116** - Only a few minutes for the installation and your cooling fan will come on when the engine reaches the preset temperature of the thermostatic switch mounted in the engine head or when the a/c is turned on. Kit includes: (3) 40 Amp relays with mounting bases, (1) fuse holder w/ 70 amp fuse, Pre-terminated and printed wire harness, Thermostatic switch 195°F on/185°F off (thread size: 3/8"-18NPT), 1/2"NPT to 3/8"NPT adapter, mounting hardware, insulated terminals, detailed instruction sheet.

**#30117** - As above with 185°F on/175°F off thermostatic switch.

**#30118** - LSx dual fan, dual activation. Kit includes: (3) 40 Amp relays with mounting bases, (1) fuse holder w/ 70 amp fuse, Pre-terminated and printed wire harness, Thermostatic switch 205°F on/190°F off (thread size: 12x 1.5MM), mounting hardware, insulated terminals, detailed instruction sheet.

## 70 AMP FAN RELAY KIT

**#30100** - This kit is designed for running high amp dual fans or Monster fan set-ups.

**NEW!**



**#30140**

**NEW!**



**#30114**

Made With Pride  
In The USA



**#30100**

#30101



### FAN-THOM ELECTRIC FAN RELAY

#30101 - Designed as inexpensive protection for your electric fan. Provides constant voltage, protects from voltage and amperage spikes and keeps fan from feeding back through the system. An absolute necessity if adding an on/off switch to your electric fan circuit.

#30102



### FAN-THOM II ELECTRIC FAN RELAY WITH THERMOSTAT PROTECTION

Don't want to probe your radiator? The Fan-Thom II comes with a threaded thermostat that screws into the engine block or manifold for a professional installation. Thermostat thread size: 3/8"-18NPTF fitting.

#30102 - 200° On/185° Off

#30103 - 185° On/170° Off

#30104



### ADJUSTABLE ELECTRIC FAN THERMOSTAT KIT

#30104 - Designed to allow a wide range of temperature adjustments for your electric fan. A bulb at the end of the capillary tube is inserted in the fins or attached to the top or hottest portion of the radiator. Use the adjustment knob to set a precise temperature desired for fan activation. The strong brushed stainless steel mounting bracket looks great. Complete kit includes thermostat, bracket, 30 amp relay, 30 amp circuit breaker for overall protection, wiring, terminals and hardware. Note: Temperature refers to the temp of the capillary tube, not the coolant temp.

#30112 - Adjustable Thermostat kit without relay.

Specs: Temp range - 32 deg to 248 deg F, Accuracy:

+/- 7.3 deg F, Differential: 7.3 deg +/- 3.6 deg F

### REPLACEMENT THERMOSTATS

#30110

200° On/185° Off

#30111

185° On/170° Off

#30113

205° On/190° Off

GEN III only

#30129



### WEATHERPROOF ELECTRIC FAN RELAY KITS

For the harsh conditions encountered off-road, these relay kits provide complete protection from the elements and ensure reliable and dependable performance. These kits utilize heavy duty waterproof relays, weatherproof circuit breaker covers and extreme condition weatherproof shrinkable crimp-on terminals.

#30130 - Weatherproof Electric Fan Relay

#30128 - Weatherproof Electric Fan Relay with 200° On/185° Off thermostat

#30129 - Weatherproof Electric Fan Relay with 185° On/170° Off thermostat

#30106



### GM GEN III FAN RELAY KIT

#30106 - Fan relay kit with 205° On/190° Off thermostat for GM Gen-III engine. M10x1.5 thermostat thread size.

#30127



### GM GEN III WATERPROOF FAN RELAY

#30127 - Weatherproof fan relay kit with 205° On/190° Off thermostat for GM Gen-III. M10x1.5 thermostat thread size.

#30109



### PCM CONTROLLED FAN RELAY KIT

#30109 - PCM controlled fan relay kits contains the necessary length wire and pinouts for those wishing to control their fan operation using the vehicle's power control module rather than thermostatically.

#30133 - Weatherproof PCM controlled fan relay kit..

#30133



### ROLLOVER SAFETY SWITCH

**#80160** - Automatically shuts off power to fuel pump in the event of a vehicle rollover. Recommended by many racing classes. Not recommended for off-road use.



**NEW!**

**A Must For Racing**

**#80160**

### ELECTRIC WATER PUMP RELAY

**#50106** - This relay kit provides maximum battery voltage to maximize cooling efficiency and to protect the main electrical system from damaging amperage overloads.



**#50106**

### WEATHERPROOF WATER PUMP RELAY

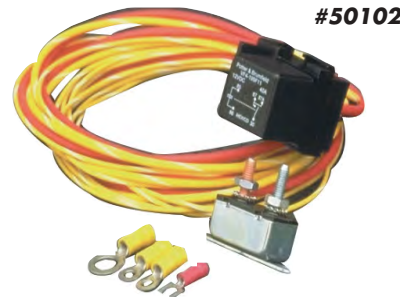
**#30132** - Perfect for the harsh conditions encountered off-road, this relay kit provides complete protection from the elements and ensure reliable and dependable performance. These kits utilize heavy duty waterproof relays, weatherproof circuit breaker covers and extreme condition weatherproof shrinkable crimp-on terminals.



**#30132**

### UNIVERSAL FUEL PUMP RELAY KIT

**#50102** - A relay will prevent voltage drops at the pump thus maintaining constant fuel pump pressure, and will prevent fuel pump amperage from damaging the electrical system. It's a good idea to relay your fuel pump for the street and a must when you're racing.



**#50102**

### WEATHERPROOF FUEL PUMP RELAY KIT

**#30131** - Perfect for the harsh conditions encountered off-road, this relay kit provides complete protection from the elements and ensures reliable and dependable performance. These kits utilize heavy duty waterproof relays, weatherproof circuit breaker covers and extreme condition weatherproof shrinkable crimp-on terminals.



**#30131**

Made With Pride  
In The USA







### CHARGING SYSTEM SHUTDOWN RELAY KIT

#50103 - Alternator feedback can keep your engine running even with the master disconnect turned off - this kit eliminates engine run-on. Highly recommended by most racing sanctioning bodies. Easy to install with all hardware and instructions. 35 amp maximum for racing only.

### HIGH AMP ALTERNATOR SHUTDOWN RELAY KIT

#50105 - This kit, complete with 250 amp solenoid, will effectively handle alternator feedback of the highest amperage alternators. Eliminates engine run-on when the master disconnect is turned off.

### HOT SHOT PLUS ENGINE BUMP SWITCH

#30201 - This switch allows you to turn over the engine from the engine compartment for adjusting valves. It also overcomes starting problems due to an overheated starter or worn out electrical system by boosting amperage to the starter solenoid every time the vehicle is started.

### REMOTE STARTER SOLENOID

#30203 - Allows you to position the starter solenoid any place you need to in order to make maintenance easier. Comes with wire and connectors to do the job right.

### HOT SHOT

#30202 - Designed to overcome starting problems due to an overheated GM style starter or worn out electrical system. Works by boosting amperage to the starter solenoid.

### MAGNETO SHUTDOWN RELAY KIT

#50104 - Since a magneto does not require battery power to operate, your engine may continue to run even with the battery disconnect switch turned off. This relay kit will ground the magneto's internal windings, preventing the coil from producing a spark. Easy to install with all hardware and instructions.

### REPLACEMENT RELAYS

#80130 - 40 amp single pole/single throw relay for use with Cirkit Boss, horn relay, fan relay, fuel pump, water pump, brake light or Hot Shot kits. Also used in 50001 harness kit.

#80131 - 30 AMP single pole/double throw relay used in Magneto Shutdown and Park/Neutral relay kits.

#80135 - Two micro relays.

#80136 - Micro relay with base and terminals.

### RELAY BASE PORT

#80133 - Made of High Impact ABS thermo plastic. The same relay base we use on all our products. Terminals provided. For 80130 and 80131 relays.

## HIGH BEAM HEADLIGHT RELAY

Why do the low beams on 1988 on GM pickups and Suburbans low beams go off when the high beams are turned on? These kits will increase the intensity and improve the light spread pattern by keeping all four lights on in high beam mode.

**#30802** - For 1988-98 GM full size trucks and SUVs \*

**#30821** - For 1999-2002 GM full size trucks and SUVs\*\*

**#30822** - For 2003-2006 GM full size trucks and SUVs

**#30823** - For 1998 and later Chevy S10 and GMC T15  
(NO KITS FOR OTHER OEM BRANDS AVAILABLE)

\*Note 1: 1988-98 GM trucks including trucks with low-beam daytime running lights.

\*\*Note 2: 1999-2002 GM trucks including trucks with low beam daytime running lights. (Some '99 and later trucks wiring did not change. If your head-light wires are tan and green use kit #30802; if purple and yellow use kit #30821). For other GM applications contact our tech line.

- Note 3: Slight modifications may be necessary for some vehicles such as 88-91 Suburbans.

## HALOGEN HEADLIGHT HARNESSSES

**#30815** - For H-4 halogen bulbs \*

**#30816** - For 9004 and 9007 halogen bulbs

**#30817** - For 9005 and 9006 halogen bulbs

To get maximum power from your headlights, it is recommended to have the shortest possible distance between the power source and the bulbs. Some factory headlight wiring is not designed to handle high power Halogen Headlights, especially when upgrading to a higher wattage. Running the power through the switch is an even worse situation. Resistance in small gauge wire or in the switch will lower the output at the lamp. Be Safe! Our headlight harnesses draw power directly from the battery, through a relay, to the headlights, providing full power to your H4 conversion headlights or Halogen sealed beams. They can also be used to relocate head-lamps to a remote location (to accommodate a snow plow, for example). They are made with TXL high temp wire, weather resistant 30-Amp fuse, and two 40-Amp weather resistant relays capable of handling up to 150 watts. #30815 and #30816 are for use on vehicles with a 2-headlight system using dual filament sealed beams or H-4 headlight conversions. #30817 is for use on vehicles with a 9005 and 9006 bulb on each side.

\*Note: Vehicles using dual filament, halogen sealed beam or H4 conversion type headlights use kit #30815.

(Will not work on Toyota vehicles)

## HALOGEN HEADLIGHT RELAY KIT

**30814** - Designed to upgrade most American cars, from the late 1950's to the mid 1980's that have 4 headlights to H-4 style Halogen Bulbs. This kit eliminates the need to buy 2 kits & install/route redundant wiring.

## AUXILIARY LIGHT RELAY KIT

**#30803** - Install extra driving or fog lights easily and properly with our Auxiliary Light Relay Kit. Switch can be wired to turn lights on per state law requirements: Low beams & auxiliary lights, Highbeams & auxiliary lights, Auxiliary light operation only. Complete kit includes lighted switch, wiring harness, 30 amp relay and terminals.

## BRAKE LIGHT RELAY KIT

**#30105** - When upgrading tail lights to the new higher wattage halogens, always use a relay. The Painless kit gives you everything you need to protect your wiring and switches.



#30802



#30821



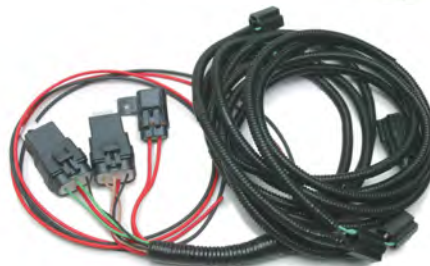
#30822



#30815



#30817



**NEW!**

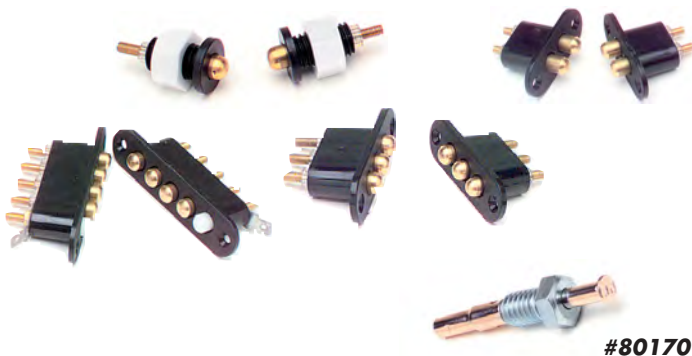
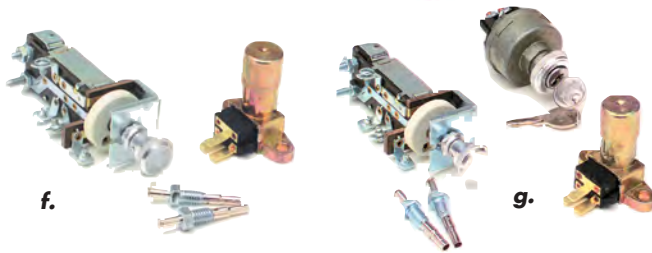
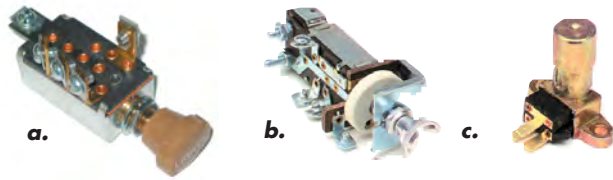
#30814



#30803



#30105



**HEADLIGHT SWITCH W/PLASTIC KNOB a.**  
#80154 - Four position; off, park, low beam and high beam.

**HEADLIGHT SWITCH W/ALUMINUM KNOB b.**  
#80151 - 3 position; dash light dim, no dome light control.

**DIMMER SWITCH #80150** floor mounted dimmer c.

**UNIVERSAL IGNITION SWITCH d.**  
#80153 - Dash mounted ignition switch w/two keys.

**HEADLIGHT SWITCH W/GM STYLE BLACK KNOB e.**  
#80152 - 3 position; dash light dim and dome light control.

**REPLACEMENT HEADLIGHT SWITCH KIT f.**  
#80120 - 3 position headlight switch, a floor mounted dimmer, and two GM style grounding door jam switches.

**REPLACEMENT SWITCH KIT g.**  
#80121 - One 3 position headlight switch, one floor mounted dimmer, two GM style grounding door jam switches, and one universal ignition switch with keys.

**PUSH BUTTON STARTER SWITCH h.**  
#80503 - With cover

**UNIVERSAL WINDSHIELD WIPER SWITCH i.**  
#80173 - Three position switch operates 2-speed wiper motor with on-off and washer function.

**HYDRAULIC BRAKE LIGHT SWITCH j.**  
#80171 - 1/8" Pipe thread fitting. 60-80 PSI

**BRAKE LIGHT SWITCHES k.**  
#80172 - 2 Terminal switch #80176 - 4 Terminal switch

**LOW PRESSURE BRAKE LIGHT SWITCH l.**  
#80174 - Comes complete w/plug-in pigtail. 1/8" pipe thread. (Activates at approx 25lbs. pressure)

**MASTER DISCONNECT SWITCH m.**  
#50710 - With mount plate #80140 - Switch only

**MAGNETIC DOOR JAMB SWITCH KIT**  
Turn dome lights on and off without unsightly switches mounted on door frame. A magnet mounted on the door activates a reed switch mounted in the post for a clean look and smooth operation. Choose ground activation (ground wire to the dome light) or power activation (power wire to the dome light.)  
#80180 - Magnetic Door Jamb Switch, Ground Activation  
#80181 - Magnetic Door Jamb Switch, Power Activation

**JAMB TAC WIRELESS CONNECTOR KITS**  
Jamb Tac keeps door jambs looking neat and free from wires. These heavy duty solid brass contacts handle up to 60 amps per circuit. Mounts anywhere in the doorjamb. Kits are complete with connectors, instructions and mounting template. (Note that opening the door breaks contact - your power windows, door locks or speakers will not operate with the door open).

#40021 - Jamb Tac 1-Wire Contact Kit  
#40022 - Jamb Tac 2-Wire Contact Kit  
#40023 - Jamb Tac 3-Wire Contact Kit  
#40024 - Jamb Tac 4-Wire Contact Kit  
#40025 - Jamb Tac 4-Wire Contact Kit with dome lamp switch

**GM STYLE JAMB SWITCH**  
#80170

### GM GEN IV TACH DRIVER

**#60150** - The Gen IV Tach Driver converts the crank signal from any 2007 and up General Motors Gen IV 58X crank wheel V8 engine into a signal readable by most aftermarket tachometers. Simple four wire hookup with power, ground, signal in and signal out. No cutting of fuel injection wire harness required. The Tach Driver will work with any aftermarket tachometer that is 12 volt negative coil driven.



**NEW!**

**#60150**

### DURASPARK II HARNESS

**#30812** - This harness allows for easy conversion from an old points-style Ford ignition to a modern DuraSpark II electronic ignition system. Requires DuraSpark II distributor and yellow or blue ignition module.



**#30812**

### FORD 3G ALTERNATOR WIRING KIT

**#30831** - Kit contains everything needed to connect to a 3G alternator: 8' of 6 gauge charge wire, pre-terminated harness with the correct connectors, 150 amp inline fuse, an assortment of weather proof splices, and detailed color instructions.



**#30831**

### HEI PIGTAIL

**#30809** - Replacement power pigtail for GM HEI distributor.



**#30809**

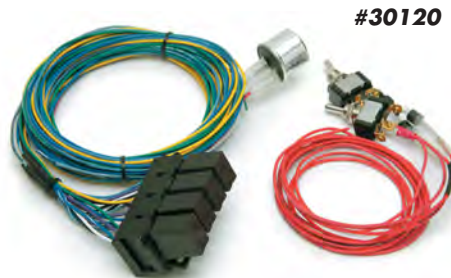
### TACHOMETER PIGTAIL FOR HEI

**#30813** - Tachometer lead for the GM HEI distributor. Includes OEM distributor connector and 6 feet of wire.

**NEW!**

### UNIVERSAL INTEGRATED TURN SIGNAL KIT

**#30120** - A common problem faced by rodders and kit car builders is where to mount the turn signal switch since many aftermarket steering columns are not designed to accommodate the necessary wiring and switches. Problem solved with this new Integrated Turn Signal Kit from Painless. The toggle switches for both turn signals and hazards can be mounted anywhere. Because the kit is designed to be an integrated system, turn signals will work in conjunction with brake lights.



**#30120**

### CERAMIC VOLTAGE REDUCER

**#40027** - The perfect solution for a 6-volt heater or other 6-volt accessory that must be used with your 12-volt electrical system. Carries 4-amp maximum current, but can be run in parallel to increase load capacity.

**Note: Not to be used with electrical gauges.**

**#40027**



### COURTESY LIGHT KITS

**#30702** - GM Kit Includes: Wires, door jamb switches and light sockets to install courtesy lights inside your vehicle. For 1967-72 GM and Chevy Trucks use Kit #30708.

**#30710** - Universal Kit Includes: Wires and light sockets to install courtesy lights inside your vehicle.



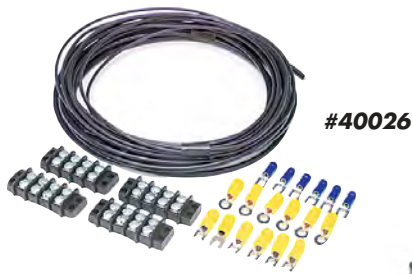
**#30702**



#30805



#30806



#40026



#80112



#70402

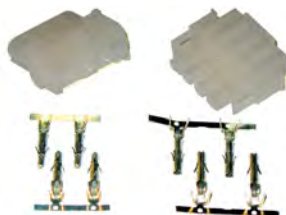
#70404

Waterproof

**NEW!**



#40130



#40008

### GM STEERING COLUMN AND DIMMER SWITCH PIGTAIL KIT

#30805 - Original factory connectors to replace worn out or damaged connectors for early GM keyed steering columns. GM color-coded wires are ready to connect into your existing harness. Includes: two keyed ignition switch pigtails, one turn signal pigtail with two connectors; one dimmer switch pigtail. Wire length: 12 Inches.

### GM COLUMN CONVERSION KIT

#30806 - All the plugs and terminals for your early GM keyed steering column in one kit. Contains two ignition switch connectors, two turn signal connectors and one dimmer switch connector and terminals for each.

### FIBERGLASS BODY GROUND KIT

#40026 - For proper electrical grounding of any vehicles with fiberglass bodies.

### JUNCTION BLOCK

#80112 - Two isolated 10 gauge posts provide a perfect way to attach two large gauge wire connections.

### WEATHERPACK CONNECTOR KIT

For use where rain, dust or other elements may affect electrical connections. Each kit includes a male and a female connector and the appropriate number of terminals.

NOTE: Accepts only 14-16 gauge wire.

#70401 - 1 Wire Kit (2pack)

#70404 - 4 Wire Kit

#70402 - 2 Wire Kit

#70406 - 6 Wire Kit

#70403 - 3 Wire Kit

### WATERPROOF BULKHEAD CONNECTOR KIT

This 22-pin bulkhead connector kit allows for custom wiring at the firewall. Includes all necessary terminals and connectors. Uses 18-16 gauge wire.

40130 - Waterproof Bulkhead Connector Kit

### QUICK CONNECT TERMINAL KITS

Make your own locking quick connect plugs easily and quickly. Each kit includes a male and a female connector and the appropriate number of terminals.

NOTE: Accepts only 14-20 gauge wire.

#40006 - 2 Wire kit

#40010 - 9 Wire kit

#40007 - 3 Wire kit

#40011 - 12 Wire kit

#40008 - 4 Wire kit

#40012 - 15 Wire kit

#40009 - 6 Wire kit

## ULTRA HIGH OUTPUT ALTERNATOR KIT

**#30700** - In most cases, your factory wiring or even a Painless Performance Chassis Harness is only rated for an alternator with 80 amps or less. Connecting your new high amperage alternator using too small a charge wire will lead to inadequate charging and/or over heating of the charge wire, possibly leading to a fire. The Ultra High Output Alternator Kit will let you safely, reliably, and "Painlessly" install an alternator with up to 190 charging amps. The kit includes a high amp inline fuse with protected fuse holder, all necessary ring terminals, heat shrink, and a detailed set of diagrams and step by step instructions to provide a professional installation.

## QUICK DISCONNECT ALTERNATOR LEAD

**#40110** - Makes alternator swaps easy. Comes with mating plug and connector. Alternator side prewired. For use with alternators up to 65 amps.

## HIGH AMP ALTERNATOR WIRE KIT

**#30709** - For alternators that produce more than 65 amps, this add-on kit provides heavier gauge wiring with connectors to complete the high output alternator installation process quickly, easily and safely.

## DELCO ALTERNATOR PIGTAIL

**#30706** - A replacement pigtail using the factory original plug for the popular "Delcotron" alternator, pre-terminated with the ignition input wire and the voltage sensing wire.

## "CS" STYLE GM ALTERNATOR PIGTAIL

**#30707** - A replacement pigtail using the factory original plug for the late style or "CS" style GM external fan alternator. Resistor included.

## "CS" 130D STYLE GM ALTERNATOR PIGTAIL

**#30705** - Pigtail for CS 130D internal fan alternator. Resistor included.

## ELECTRICAL SYSTEM SURGE PROTECTOR

**#40030** - Voltage spikes can cause damage to various components in your vehicle's electrical system. This easy to install device clips the spikes at 14.5 volts to protect sensitive electrical accessories. Installs between positive and negative battery terminals

## UNIVERSAL GAUGE HARNESS

If you want to keep your under-dash area organized or you think that you need to remove gauges from time to time then you need to install our universal gauge harness. It will connect all major brand gauges including Auto Meter and VDO and works with most dash layouts and sizes. Harness includes wiring for turn signals and high beam indicator light.

**#30301** - For cable driven speedometer.

**#30302** - For electric speedometer.

## 1/8" INDICATOR LIGHTS

**#80200** - Amber **#80201** - Red **#80202** - Green

## 5/16" INDICATOR LIGHTS

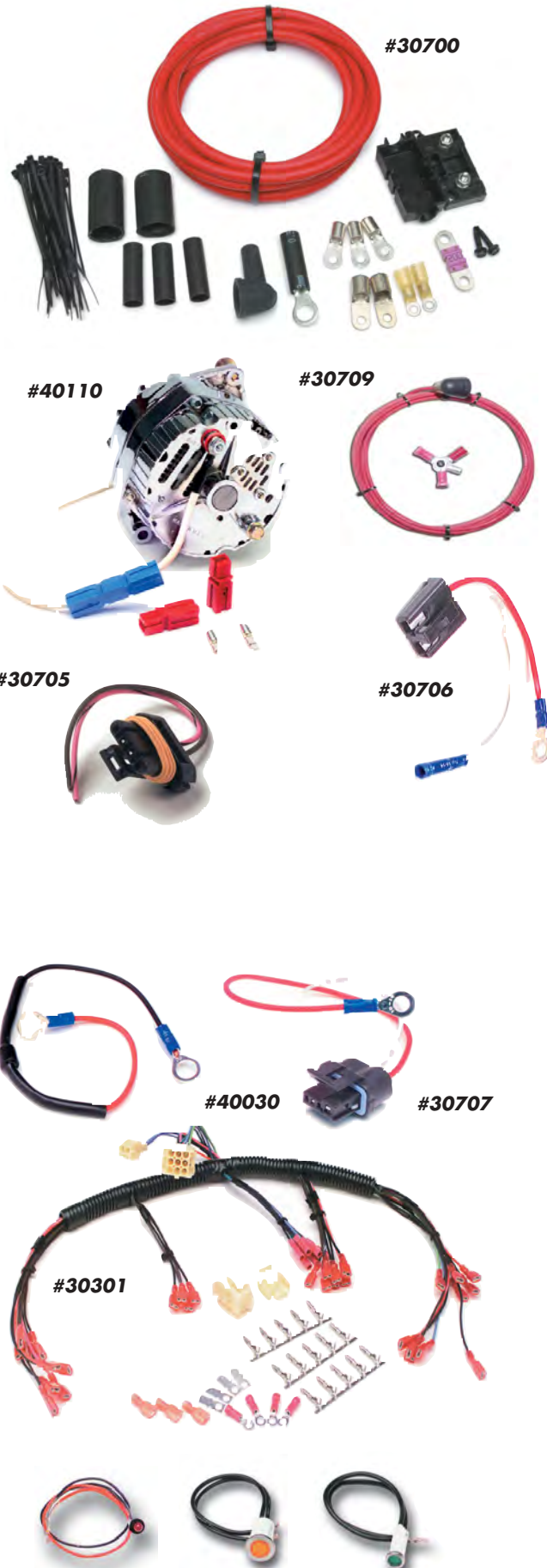
**#80203** - Amber **#80204** - Red **#80205** - Green **#80206** - Blue

## 1/2" INDICATOR LIGHTS

**#80208** - Amber **#80209** - Red **#80210** - Green **#80211** - Blue

## CHECK ENGINE LIGHT

**#80207** - Amber with engine logo





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### REMOTE MASTER DISCONNECTS

Whether complying with sanctioning body requirements, car show rules or simply for your vehicle's security, Painless has the right battery disconnect for you.

We offer two kits with 250 amp continuous duty solenoids for use with high amperage alternators. Kit #30204 uses a toggle switch to activate the solenoid. This switch can be hidden anywhere as a theft deterrent. Kit #30205 with Emergency Push Button is perfect for race applications as it allows installation of a large emergency push button in easy reach if you need to shut down your vehicle's electrical system in a hurry. Our #30206 kit with Mechanical Latching Solenoid is a simple and effective anti-theft deterrent for everyday vehicles. The 110 amp continuous duty solenoid is activated by an easy to hide momentary push button. No risk of accidentally draining your battery with this latching solenoid.

#30204 - Remote Master Disconnect Kit

#30205 - Remote Master Disconnect with Emergency Push Button

#30206 - Remote Master Disconnect with Mechanical Latching Solenoid  
(Includes constant-hot wire for computer or radio presets)

### 250 AMP DUAL BATTERY CONTROL SYSTEM

This controller includes a three position switch to control the second battery through the operation of the solenoid. Switch position one isolates the second battery. Position two connects the battery while the ignition is on. Position three connects the second battery at all times. Kit includes solenoid, switch, preterminated wire/connectors, fuse holder, fuse and mounting hardware. For systems exposed to the elements, such as marine, use kit #40103

#40102 - 250 Amp Dual Battery Controller

#40103 - 250 Amp Weatherproof Dual Battery controller

## PAINLESS DIGITAL POWER MANAGER

**#40120** – This new Digital Power Manager protects the main battery from being discharged under heavy or sustained loads. On startup the DPM will direct all charging to the main battery until it reaches full charge. It will then automatically begin charging the auxiliary battery. The DPM will sense when the load is large enough on the main battery and automatically add the auxiliary battery in parallel for added power. An indicator light informs you of the charge state of the DPM.

- Most effective and simple method of monitoring an auxiliary battery on most any 12 volt system
- Automatically starts charging reserve battery when main battery is fully charged to 12.6 volts.
- Senses when main battery load is large enough to need aux power and automatically connects the two together in parallel.
  - Indicator light Solid On - Main Battery and Aux Battery connected together when load on main is large enough to drop the voltage below 12.5.
  - Indicator Slow Flash - Charging Reserve Battery
  - Indicator Fast Flash- Reserve Battery Below 11.6 volts
  - Indicator Off - Painless DPM Idle

## PAINLESS HEAVY DUTY DIGITAL POWER MANAGER

**#40121** - The Digital Power Manager is a weatherproof solid state dual battery control unit that automatically engages an auxiliary battery when a large enough load is placed on the vehicle's main battery. The unit will not allow the electrical loads on the vehicle's main start battery to drain the auxiliary battery resulting in a stranded situation for the driver. When the main start battery is too low to crank the engine by itself, the Digital Power Manager will combine the auxiliary and main batteries to crank the engine. The **#40120** kit (listed above) is ideal for most applications.

However, for those heavy duty applications which may require a draw of over 280 amps, we have created the **#40121** kit with HI-AMP Jump Start Solenoid. This will allow every possible amp left in the auxiliary battery to be utilized by simply pushing a momentary button. Then, once the engine is running and spinning the alternator again, it will only allow charging of the auxiliary battery, after the main battery is fully recharged by the alternator.

This solid state dual battery controller / battery isolator eliminates manual switching or any second guessing when using a secondary battery in any vehicle with a 12 volt system. The unit is capable of switching up to 530 amperes of DC current for large loads such as winches or even when jump starting the vehicle. Ideal for any vehicle equipped with high power stereo systems, high amp driving lights or winches. Included in the kit is the weather proof Digital Power Manager, Heavy Duty 250 amp Jump Start solenoid, push button momentary switch, 6 gauge connection cables, terminals, heat shrink, mounting hardware and a remote indicator light.

**NEW!**



**#40120**

**NEW!**



**#40121**

Made With Pride  
In The USA







Serpentine Drive Shown

V-Drive Shown

**High Amperage At Low RPM  
A Must For Fuel Injection Applications**



#40105

#40100



#30711



#40106

### POWERSTAR ALTERNATORS

Engineered specifically for Painless by Powermaster, these new PowerStar alternators are designed to solve the amperage needs of today's fuel injected engines. At start up these engines require higher amperage output than standard alternators are able to provide. Even other high amp alternators, which provide high output at upper rpms, do not adequately address low rpm requirements. PowerStar alternators feature:

- Maximum amperage output at low-rpm
- Adjustable voltage from 13.5 to 18.5 volts. Perfect for 16 volt systems
- Instantaneous response to increased loads for stable power supply
- Simple one wire operation
- Front baffle for improved cosmetics

If you've experienced inadequate operation of accessories such as cooling fans, lights, etc. while cruising or driving at rpms under 2,000 PowerStar is your Painless solution.

### SERPENTINE BELT APPLICATIONS

- #51000 Chrome Finish
- #51001 Black Finish
- #51002 Natural Finish

### V-BELT APPLICATIONS

- #51020 Chrome Finish
- #51021 Black Finish
- #51022 Natural Finish

### POWERSTAR HIGH OUTPUT STARTERS

Kick start the whole process with the new PowerStar starters with 160-lbs/ft of torque for guaranteed cranking power every time.

- #51100 Ford Starter For 289, 302, 351W&C, auto or 5-speed manual, 3/4" offset mount
- #51101 Chevy Starter 168 teeth with offset mount
- #51102 Chevy Starter 153 teeth

### BATTERY CABLE KIT

#40100 - Only the highest quality components go into our remote battery cable kit. Comes complete with 15 feet of red #1 gauge positive battery cable and three feet of black #1 gauge battery cable, both with heavy duty battery terminals already installed. 133 strand copper cable with lightweight abrasion resistant insulation capable of handling over 250 amps. Kit includes side post adapters and high amp crimp ring terminals.

### REMOTE MOUNT BATTERY CABLE KIT

#40105 - Allows both positive and negative cables to be attached to the engine for maximum starting current. These two 16 foot, #1 gauge cables help prevent voltage drop to the engine. Eliminates the need for additional heavy cable connections between the engine and frame.

### REMOTE BATTERY JUNCTION KIT

#40106 - A through-bulkhead terminal with one positive (red) and one negative (black) 3/8" connector stud for battery cables.

### SAFETY CHARGE WIRE KIT

#30711 - Connects alternator charge wire to battery side of remote disconnect to prevent alternator run-on when shutoff is engaged. Contains 25' of 8-gauge wire and connectors

## POWERBRAID WIRE WRAP

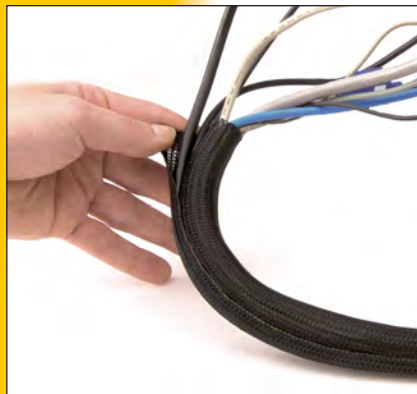
Protect and clean up any harness installation with our braided wire wrap. Laterally split design closes around wire bundle without the need for additional taping or fasteners. Black only.

### PRE-CUT LENGTHS

- #70910 - 1/8" Dia. 20 Feet
- #70901 - 1/4" Dia. 20 Feet
- #70902 - 1/2" Dia. 10 Feet
- #70903 - 3/4" Dia. 6 Feet
- #70916 - 1" Dia. 12 Feet
- #70904 - 2" Dia. 4 Feet

### BULK ROLLS

- #70911 - 1/8" Dia. 250 Feet
- #70912 - 1/4" Dia. 200 Feet
- #70913 - 1/2" Dia. 150 Feet
- #70914 - 3/4" Dia. 100 Feet



PowerBraid High Temp Wire Cover  
Handles Up To 425°

## COMPLETE POWERBRAID PACKAGES

Everything you need in one box to professionally cover any chassis or engine harness installation with our tough, attractive wire wrap product. Black only.

Includes: PowerBraid, self vulcanizing tape, wire ties and shrink wrap.

### CHASSIS HARNESS KIT

- #70920 - 1/8" Dia. 10 Feet
- 1/4" Dia. 60 Feet
- 1/2" Dia. 30 Feet
- 1" Dia. 6 Feet

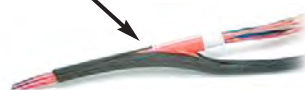
### FUEL INJECTION HARNESS KIT

- #70921 - 1/8" Dia. 23 Feet
- 1/4" Dia. 50 Feet
- 1/2" Dia. 12 Feet
- 3/4" Dia. 3 Feet
- 1" Dia. 8 Feet

## POWERBRAID INSTALLATION TOOLS

The simple way to wrap wiring with PowerBraid. Ideal for professional installers.

- #70940 - Tool for 1" PowerBraid only
- #70941 - Tool Set for assorted sized PowerBraid





### PAINLESS EXTREME CONDITIONS WIRE STOCK

When reliability and performance can't be compromised you want this wire - not the inexpensive primary wire you find in most parts stores. Stranded real copper core. Cross-linked polyethylene insulation for superior abrasion resistance. Withstands over 125°C (275°F). Exceeds OE specifications for under hood applications. Light weight, easy routing.



### PERFORMANCE TERMINAL ASSORTMENT KIT

**#40060** - 84 piece kit. You can trust Painless to give you only the finest American made quality terminals for the best connection. These terminals cost a little more, but are worth every penny.



### WEATHERPROOF "EXTREME CONDITION" TERMINAL KIT

**#40065** - 67 piece kit. The finest quality terminals money can buy. High grade copper, covered in special heat shrink that will not crack under high temperatures. Heat activated adhesive waterproofs the connection & relieves wire strain. Impervious to gas, antifreeze, battery acid, diesel fuel and saltwater. Easy crimp-on style. Exceeds all UL and CSA requirements.

### 8 GAUGE WIRE STOCK

**COLOR 25 FT.**  
Red . . . . . **#70690**

### 10 GAUGE WIRE STOCK

**COLOR 25 FT.**  
Red . . . . . **#70700**  
Black . . . . . **#70701**

### 12 GAUGE WIRE STOCK

**COLOR 25 FT. 50 FT.**  
Red/Blk . . . . . **#71710 #70710**  
Orange . . . . . **#71711 #70711**  
Purple . . . . . **#71712 #70712**  
Red . . . . . **#71714 #70714**  
Brown . . . . . **#71715 #70715**  
Black . . . . . **#71716 #70716**

### 14 GAUGE WIRE STOCK

**COLOR 25 FT. 50 FT.**  
Red . . . . . **#71800 #70800**  
Black . . . . . **#71801 #70801**  
Orange . . . . . **#71802 #70802**  
Yellow . . . . . **#71803 #70803**  
Green . . . . . **#71804 #70804**  
Blue . . . . . **#71805 #70805**  
White . . . . . **#71806 #70806**  
Grey . . . . . **#71807 #70807**  
Lt. Blue . . . . . **#71808 #70808**  
Lt. Green . . . . . **#71809 #70809**  
Pink . . . . . **#71810 #70810**  
Brown . . . . . **#71811 #70811**  
Purple . . . . . **#71812 #70812**  
Tan . . . . . **#71813 #70813**  
Tan/White . . . . . **#71814 #70814**  
Grey/White . . . . . **#71815 #70815**  
Black/White . . . . . **#71816 #70816**  
Blue/Yellow . . . . . **#71817 #70817**  
Yellow/Black . . . . . **#71818 #70818**  
Yellow/White . . . . . **#71819 #70819**

### 16 GAUGE WIRE STOCK

**COLOR 25 FT. 50 FT.**  
Lt. Blue . . . . . **#71830 #70830**  
White . . . . . **#71831 #70831**  
Blue . . . . . **#71832 #70832**  
Green/Blk . . . . . **#71833 #70833**  
Green . . . . . **#71834 #70834**

### 18 GAUGE WIRE STOCK

**COLOR 25 FT. 50 FT.**  
Lt. Blue/Blk . . . . . **#71850 #70850**  
Purple/Blk . . . . . **#71851 #70851**  
Purple/White . . . . . **#71852 #70852**  
Red/White . . . . . **#71853 #70853**  
Orange/Blk . . . . . **#71854 #70854**  
Green/Blk . . . . . **#71855 #70855**  
Red . . . . . **#71858 #70858**  
Blue . . . . . **#71859 #70859**  
Lt. Blue . . . . . **#71860 #70860**  
Brown . . . . . **#71861 #70861**  
Green . . . . . **#71862 #70862**  
Pink . . . . . **#71863 #70863**  
Orange . . . . . **#71864 #70864**  
Black/White . . . . . **#71865 #70865**  
Black . . . . . **#71866 #70866**  
Purple . . . . . **#71867 #70867**  
White . . . . . **#71868 #70868**



## COLDSHOT WATER / METHANOL INJECTION SYSTEM

The highest quality, most complete water/methanol injection system on the market. The on-board control monitor features an LED gauge displaying boost pressure from 0 to 100 psi and a 60 LED gauge showing the preset injection curve. The controller features an adjustable injection curve display, a water level warning indicator and a dimming function for night and day brightness.

### HOW THE COLD SHOT WORKS

Lowers intake, combustion and exhaust temperatures by injecting water/methanol with the Striker ColdShot. After injection, evaporation of the water and methanol absorbs energy in the form of heat from the post intercooler intake air. Cooling of the intake air temperature produces an air charge more dense with oxygen. Evaporated methanol enters the combustion chamber and increases the octane of the combustion fuel. Residual water/meth droplets also enter the combustion chamber. These droplets absorb heat from cylinder walls, pistons and heads. At ignition, evaporation/burn of the water/methanol mixture completes. More heat is absorbed resulting in lower combustion and exhaust temperatures, significantly extending the life of the turbocharger.

Works great with stacked power modules, allowing for maximum potential of power add-ons.

**#65000 Striker ColdShot**  
Water/Methanol Injection System for Gasoline

**#65001 Striker ColdShot**  
Water/Methanol Injection System for Diesel

**LIFETIME WARRANTY!**

### STRIKER COLDSHOT II

A great power booster with Painless quality in a substantially reduced cost package. The new controller features a 4 push button interface, an external low water LED connection, two 7-segment display LEDs and internal 4-bar boost sensor. Still the most complete, highest quality, budget priced kit on the market today.

**#65003** - ColdShot II with no reservoir  
**#65004** - ColdShot II with 2 quart reservoir  
**#65005** - ColdShot II with 7 gallon reservoir



Analog Style Progressive Boost Readout

Easy Push Button Set-Up

Digital LED Boost Readout

Compact Case 5"x2"x3/4"

LED Water/Methanol Injection Curve MAP

Low Water Warning Light

### System Includes Everything You Need For Installation:

- Industrial quality 12 volt water solenoid
- Industrial quality nickel-plated brass push-to-connect fittings
- 2 quart reservoir with low water level sensor and fittings
- 25 feet of 1/4" Nylon 11 high pressure/ high temp tubing included
- 150 PSI high pressure, high volume, Shurflo water/methanol pump
- Custom Painless wiring harness with all connectors
- Very Fine Mist (VFM) industrial grade nozzles for superior atomization
- Custom designed nozzle bushings for easy swapping/cleaning

**NEW!**





### COMPLETE COLDSHOT KIT

No fabrication or guess work. The ColdShot System comes with all the components, wiring and mounting hardware you'll need for a professional quality installation. Just follow the simple instructions and you're ready to make more power and torque in just a few hours.

**Custom made preterminated wiring harness**

**All mounting hardware, connectors and terminals**

**All required pipe fittings are industrial quality nickel plated brass**

**Very Fine Mist (VFM) custom made industrial grade nozzles for superior atomization**

**25 feet of nylon 11 high pressure fluid tubing**

**High pressure 150 psi pump**

**Industrial quality 12 volt solenoid offers dramatically improved spray control over standard check valve.**

**2 quart tank with level sensor**

### Upgrade Kits

#### #65020 Water / Methanol Nozzle Upgrade Kit

Includes 3 nozzles, 1/4" tubing and a nozzle holder.

#### #650217- Gallon Tank Upgrade Kit

Includes mounting brackets, hardware, 20 feet of 1/4" tubing, fittings and suction tube with strainer.

**INDUSTRIAL QUALITY**

Made With Pride  
In The USA



## PAINLESS LOGO T-SHIRTS

Top quality white with Painless Performance badge on front and large Painless Wiring logo on back.

Size	Part #	Price
Medium	<b>90904W</b>	\$11.95
Large	<b>90905W</b>	\$11.95
X-Large	<b>90906W</b>	\$11.95
XX-Large	<b>90907W</b>	\$13.95
XXX-Large	<b>90908W</b>	\$13.95

## PAINLESS COMING & GOING T-SHIRTS

Top quality white with Painless panel truck; front on the front, the back on the back.

Size	Part #	Price
Small	<b>90910</b>	\$7.95
Medium	<b>90911</b>	\$7.95
Large	<b>90912</b>	\$7.95
X-Large	<b>90913</b>	\$7.95
XX-Large	<b>90914</b>	\$9.95

## PAINLESS LOGO POLOS

Top quality great looking in black or white.

Size	Part #	Price
Small	<b>90919-B or W</b>	\$17.95
Medium	<b>90920-B or W</b>	\$17.95
Large	<b>90921-B or W</b>	\$17.95
X-Large	<b>90922-B or W</b>	\$17.95
XX-Large	<b>90923-B or W</b>	\$19.95
3X-Large	<b>90924-B or W</b>	\$20.95

## PAINLESS BALL CAPS

One size fits all.

Red	<b>90903</b>	\$5.00
Tan	<b>90901</b>	\$5.00
Black	<b>90902</b>	\$5.00



Tan  
Black  
Red (not shown)

## PAINLESS INSTALLATION MANUALS

Installation manuals for all Painless harnesses are available at no cost as PDF files online at [www.painlessperformance.com](http://www.painlessperformance.com)

## ORDERING INFORMATION FOR ALL PRODUCTS

Order sportswear and books directly from Painless. Pay by Visa, Mastercard or Money Order. We do not ship C.O.D. Texas residents will be charged 8.25% sales tax. To order: Send us an email at [painless@painlessperformance.com](mailto:painless@painlessperformance.com) or call our customer service department at 1-888-350-6588. Written orders write us at: Painless Performance, 2501 Ludelle Street, Forth Worth, Texas, 76105

## SHIPPING CHARGES

Shipping charges for all products based on actual charges from Fort Worth, Texas to your destination.

10101	11	30107	26	40011	51	50337	41	60122	33	65301	3	70853	57	71833	57	80210	52
10102	11	30108	26	40012	51	50340	41	60124	33	65303	3	70854	57	71834	57	80211	52
10103	17	30109	45	40021	49	50341	41	60125	33	66501	5	70855	57	71850	57	80400	42
10104	17	30112	45	40022	49	50404	37	60127	33	66501	32	70858	57	71851	57	80401	42
10105	21	30114	44	40023	49	50406	37	60130	33	70103	25	70859	57	71852	57	80402	42
10106	21	30115	44	40024	49	50408	37	60131	33	70107	25	70860	57	71853	57	80403	42
10107	19	30116	44	40025	49	50410	39	60150	50	70113	25	70861	57	71854	57	80404	42
10110	21	30117	44	40026	51	50411	39	60201	27	70114	25	70862	57	71855	57	80405	42
10111	21	30118	44	40027	50	50412	39	60202	27	70117	25	70863	57	71858	57	80407	42
10112	17	30120	50	40030	52	50413	38	60203	27	70118	25	70864	57	71859	57	80408	42
10113	19	30127	45	40102	53	50414	38	60210	27	70120	25	70865	57	71860	57	80409	42
10114	19	30128	45	40103	53	50415	38	60211	28	70121	25	70866	57	71861	57	80411	42
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10118	18	30130	45	40120	54	50417	38	60213	28	70207	25	70868	57	71863	57	80413	42
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10123	15	30132	46	40130	51	50420	40	60215	28	70214	25	70902	56	71865	57	80415	42
10127	15	30133	45	40140	26	50421	40	60216	28	70217	25	70903	56	71866	57	80420	35
10130	12	30140	5	40141	26	50422	40	60217	28	70401	51	70904	56	71867	57	80421	35
10140	20	30141	5	40142	26	50423	40	60218	28	70402	51	70910	56	71868	57	80422	35
10142	21	30142	5	50001	22	50430	40	60219	28	70403	51	70911	56	80101	43	80425	35
10144	19	30143	5	50002	22	50431	40	60220	28	70404	51	70912	56	80102	43	80430	35
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10202	11	30202	47	50005	22	50433	40	60250	23	70690	57	70914	56	80108	42	80432	35
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10206	17	30206	53	50103	47	50604	39	60506	29	70712	57	70922	19	80112	51	80436	35
10220	12	30301	52	50104	47	50710	49	60507	29	70714	57	70940	56	80120	49	80437	35
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20103	14	30706	52	50210	40	51002	55	60520	29	70802	57	71714	57	80135	47	80445	35
20104	14	30707	52	50211	40	51020	55	60521	29	70803	57	71715	57	80136	47	80501	42
20106	15	30709	52	50212	40	51021	55	60522	29	70804	57	71716	57	80150	49	80502	42
20107	15	30710	50	50213	40	51022	55	60523	29	70805	57	71800	57	80151	49	80503	49
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20113	15	30803	48	50303	36	51102	55	60608	31	70808	57	71803	57	80154	49	80512	42
20114	15	30805	51	50304	36	55000	4	60617	31	70809	57	71804	57	80160	46	80513	42
20120	16	30806	51	50305	36	55001	4	64023	33	70810	57	71805	57	80170	49	80514	42
20121	16	30809	50	50306	36	55002	4	64024	33	70811	57	71806	57	80171	49	80520	42
20122	16	30812	50	50307	38	55003	4	65000	58	70812	57	71807	57	80172	49	80521	43
21000	14	30813	50	50308	38	55004	4	65001	58	70813	57	71808	57	80173	49	80528	43
21001	14	30814	48	50309	38	55005	4	65003	58	70814	57	71809	57	80174	49	80529	43
30001	24	30815	48	50313	39	60008	29	65004	58	70815	57	71810	57	80175	33	80530	42
30002	25	30816	48	50314	39	60009	29	65005	58	70816	57	71811	57	80180	49	80531	42
30003	24	30817	48	50315	39	60017	29	65020	59	70817	57	71812	57	80181	49	80532	42
30004	24	30821	48	50316	39	60026	29	65021	59	70818	57	71813	57	80200	52	80533	42
30020	24	30822	48	50317	39	60101	27	65100	3	70819	57	71814	57	80201	52	80534	42
30021	24	30823	48	50318	39	60102	27	65254	30	70830	57	71815	57	80202	52	86000	19
30100	44	30830	13	50330	41	60103	27	65255	30	70831	57	71816	57	80203	52		
30101	45	30831	50	50331	41	60109	32	65256	30	70832	57	71817	57	80204	52		
30102	45	40006	51	50332	41	60110	32	65257	2	70833	57	71818	57	80205	52		
30103	45	40007	51	50333	41	60112	33	65258	2	70834	57	71819	57	80206	52		
30104	45	40008	51	50334	41	60115	33	65259	2	70850	57	71830	57	80207	52		
30105	48	40009	51	50335	41	60116	33	65260	2	70851	57	71831	57	80208	52		
30106	45	40010	51	50336	41	60118	33	65300	3	70852	57	71832	57	80209	52		

[www.painlessperformance.com](http://www.painlessperformance.com)

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**PAINLESS**®

**PAINLESS PERFORMANCE PRODUCTS**

**DIVISION OF PERFECT PERFORMANCE PRODUCTS, LLC**

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Sales/Tech 1.800.423.9696