

electronics performance accessories

autostylin

September 2004

magazine

MBRP's PLAY DIME Chevy S-10



Features

- ▶ Reviewed! Centerforce & OW Donald
- ▶ Milbert Tube Amp Tech
- ▶ Light Force "Strikers" Install
- ▶ American Autowire "Wire It Right!"

Feature
Vehicle



Billy Boat's SRT-4

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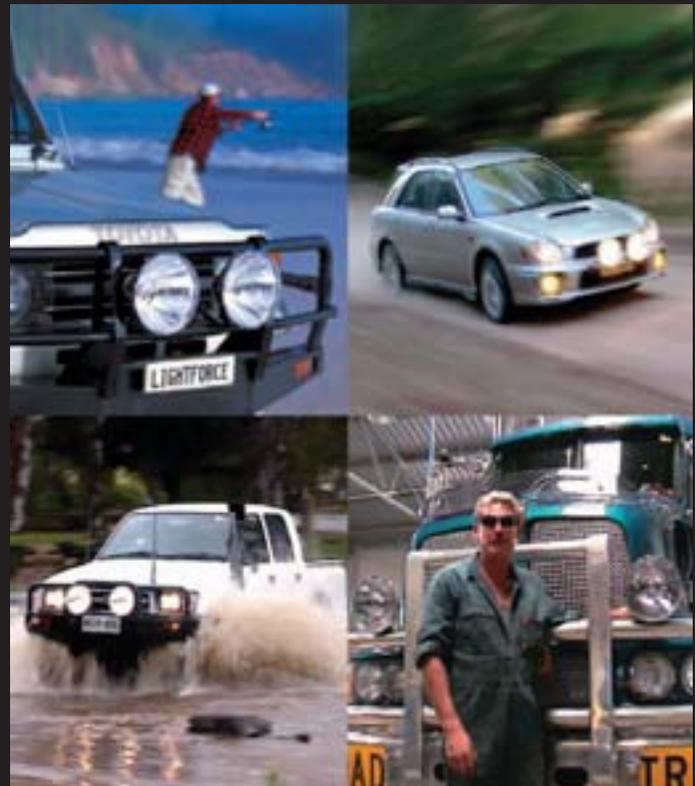


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AutoStylin Magazine

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AutoStylin Magazine - PO BOX 2564, Gilbert, AZ 85299
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September

Sep 10	Las Vegas Drift Nationals - Las Vegas Motor Speedway - www.lvms.com
Sep 1	Dragfest - Beaver Sprongs Dragway - Beaver Springs, PA - www.dragfest.net
Sep 11	US Drift - Infineon Raceway - San Francisco, CA - www.usdrift.com
Sep 12	22nd Annual Battle of the Brits - Sterling Heights, MI - www.battleofthebrits.com
Sep 18-19	NOPI Nationals - Atlanta, GA - www.nopi.com
Sep 18-19	Battle of the Imports - Route 66 - Joilet, IL - www.battle of the imports.com
Sep 26	BATTLE of the Imports - Atco Raceway - Atco, NJ - www.battle of the imports.com
Sep 29	DG Trials - Raceway Park - Englishtown, PA - www.dgtrials.com

October

Oct 1-3	US Drift - Virginia International Raceway - Danville, VA - www.usdrift.com
Oct 2	Import Life - Portland Expo Center - Portland, OR - www.importlife.com
Oct 8	Las Vegas Drift Nationals - Las Vegas Motor Speedway - www.lvms.com
Oct 9	Import Life - Dallas Convention Center - Dallas, TX - www.importlifetour.com
Oct 9	Hot Import Nights - Cleveland, OH - www.hotimportnights.com
Oct 9-10	NDRA - Baytown, TX - www.nopi.com
Oct 16	Import Life -Dallas Convention Center - Dallas, TX - www.importlifetour.com
Oct 16-19	NDRA - Ennis, TX - www.nopi.com
Oct 23	Import Life - McCormick Place - Chicago, IL - www.importlifetour.com
Oct 23	Hot Import Nights - Atlanta City, NJ - www.hotimportnights.com
Oct 27	DG Trials - Raceway Park - Englishtown, PA - www.dgtrials.com

November

Nov 2-5	SEMA Show - Las Vegas - www.semashow.com
Nov 6-7	US Drift Championship - Las Vegas Motor Speedway, NV - www.usdrift.com
Nov 16	DG Trials - Raceway Park Clinic - Englishtown, PA - www.dgtrials.com
Nov 19	Las Vegas Drift Nationals - Las Vegas Motor Speedway - www.lvms.com
Nov 24	DG Trials - Raceway Park - Englishtown, PA - www.dgtrials.com

December

Dec 3-5	Toy & Hobby Expo - Novi Expo Center - Novi, MI - (734) 455-2110
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NewsFlash

Applied Products / RETRAX has moved! Its new location is in the Grand Forks, ND Industrial Park located at 917 S. 46th Street. Applied Products manufactures and distributes its RETRAX Rigid Retractable Pickup Bed Cover. Applied Products moved from its 10,000 square foot home to its new home of 20,000 square feet on December 30, 2003. Applied Products' expanded production, assembly, shipping, storage and office areas enable its employees to work more efficiently, allowing them to meet the increasing demand for the RETRAX.

Classic Design Concepts, LLC rolled out their latest creation, the Stainless F150. With the debut of the Stainless F150, CDC is preparing for multiple 2004 F150 line up product releases. The Stainless F150 was created with the weekend karter in mind. They created a storage bed system that snugly holds a modern t 80-125 cc Go Kart. They incorporated custom storage units to securely store the necessary tools and accessories for weekend karting. The storage units, created by Putco, include a bed that rolls out for easy access to both cart and accessories. The finish is Stainless.

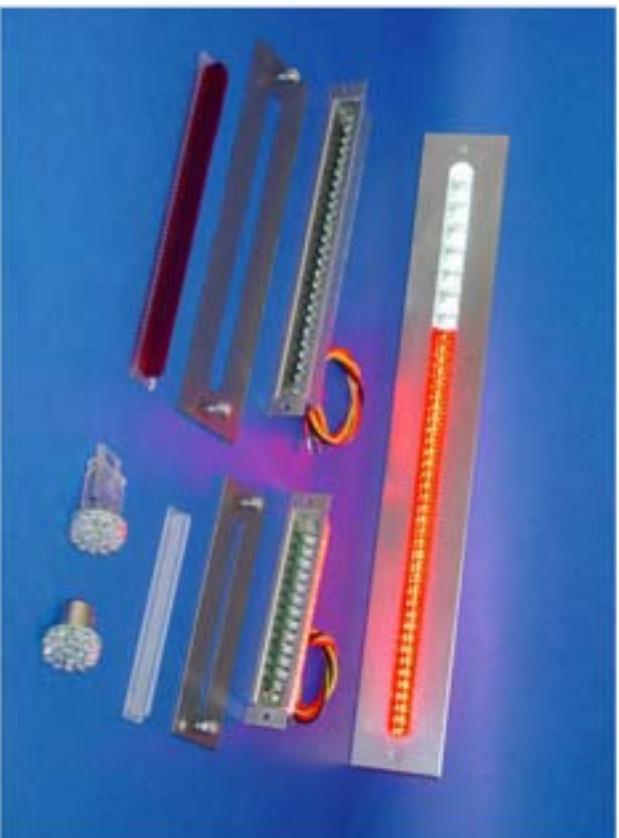


Mustang Dynamometer presents the all-new Mustang MD-1100, the highest performance, lowest cost chassis dynamometer in the world, capable of testing up to 1,100 horsepower and 200 MPH. With prices starting under \$20,000 and fully upgradeable to Mustang's patented eddy-current loading system with Road Simulation Technology™ (RST), it is the perfect choice for a new shop or a performance tuner looking to expand their capabilities. It features big 30-inch rolls that are 25% larger than comparably priced dynos from other manufacturers for improved traction and more realistic inertia loading. Available options include a motorcycle adapter and a quarter-mile simulation with integrated Christmas Tree starting light system.

SIGN-A-RAMA, the world's largest sign franchise with over 700 retail outlets in 34 countries, has selected the Roland SOLJET SC-540EX printer/cutter for use in its full-service sign stores. All SIGN-A-RAMA locations create and install vehicle-boat-aircraft lettering, window graphics, magnetics, yard signs, banners, neon, nameplates, and many other diverse and creative signs and sign services. For the fifth consecutive year, SIGN-A-RAMA has been named the top sign franchise in Entrepreneur magazine's annual Franchise 500® list.



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Photos by Steve Stebills. Background image is simulated carbon fiber. (Magnified 200x)

New Product Showcase

The hottest new products in the aftermarket industry!



Plasmaglow-

2.1 Million Colors, 10 modes, and music pulse settings make the ultimate Color-Changing LED Under Car Kit. The complete system includes four patented LED tubes, a remote, and a dash-mount display that shows the current color and mode of the kit. Only PlasmaGlow makes additional interior tubes, wireless upgrades, and wheel well kits that you can sell as add-on accessories to your customers. Only PlasmaGlow backs its products up with a Lifetime Warranty and unmatched customer support.

Stinger Electronics-

Stinger Electronics introduces their new SPI160. The SPI160 is an ultra compact 160 watt unit with a single outlet. The SPI300 is a compact unit boasting two outlets and 300 watts of output power. Both units exhibit superior noise rejection easy plug and play connectors. Equipped with a cigarette lighter adapter for temporary use or easily hardwired for permanent installations, these inverters are the perfect solution for powering a game station, computer or other devices that are designed for 110 volt applications.



ALBA Wheels-

ALBA Chrome Wheels proudly unveils the brilliantly new Chase 305. This impressive showpiece comes in sizes 18 through 16 inch and is backed by ALBA's industry-leading 3-year chrome warranty. Chase will fit many of your front wheel drive, high offset passenger vehicles such as the new Mazda 8 and 626, Nissan Altima & Maxima, and nearly all Acura models including the new TL. When nothing else comes close, cut to the Chase!

Alphasonik-

New for 2004 is Alphasonik's PFC series of full range speakers. The "C" stands for convertible meaning the tweeter is removable and the speaker can be converted into a component speaker. In addition is a newly designed basket assembly and grille design. Other features include a Kapton voice coil former, carbon reinforced woven glass cone with a butyl rubber surround, pure silk dome tweeter, integrated crossover with solid state tweeter protection, bottom motor geometry and a threaded phase plug for use as a separate. The PF52C handles 140 watts RMS with frequency response of 60Hz - 22kHz with sensitivity of 91.5dB @ 1-watt / 1-meter.



Bully Dog Technologies-

Bully Dog Technologies announces their new line of Rapid Power modules for the new Duramax LLY and the 6.0L Power Stroke. These modules are designed for the ultimate in safe horsepower increases. With in cab adjustability of up to 70 hp they represent very good performance with much reduced risk. The modules feature Bully Dogs new Tranny Smart software to protect the transmission from damage. The module will only activate after the engine temperature has reached operating temperature and will stop adding power if the engine gets too hot (Duramax LLY only).

Auburn Gear-

Auburn Gear introduces ECTED™, pronounced ek-ted. ECTED stands for Electronically Controlled Traction Enhancing Differential. This new performance differential is selectable via a dash or console mounted switch. When selected "off" - ECTED performs like a limited slip differential. When selected "on", ECTED becomes a full locker/spool, which is ideal for the quarter-mile or just for street fun. ECTED is available in Ford 8.8" and GM 8.5" 10 Bolt configurations - AMC 20, GM 12 Bolt and Dana 30&35 are coming soon.



New Product Showcase

The hottest new products in the aftermarket industry!



Audio Authority-

Stop Wasting Time and Money on Returned Goods!

The Model 1020VS is a multi-purpose all-in-one audio/video test set that will save you money on alleged "out-of-box defective merchandise" as well as improperly installed components. Verify AV components before installation, before selling used equipment, and before exchanging "defective" components which may simply have been installed incorrectly. Head unit, DC power supply, and video display not included.

ATI Performance-

ATI Performance Products introduces its newest Aluminum Drum Assembly for Powerglides. Holding up to eight clutches, this drum increases surface area for enhanced durability and more efficient power transfer. These strong but lightweight drums lower ET and triple clutch life. ATI drums are machined entirely in-house from heat-treated aircraft aluminum. Providing 2/3 less inertia weight allows for quicker drum acceleration and less impact on clutches as the drum accelerates from stop to engine RPM on the first to second gear change.



Billy Boat Performance-

Billy Boat Performance Exhaust introduces its system for the new 2004 Ford F-150! This free-flowing exhaust system features 100% T-304 stainless steel construction, mandrel bending, and high quality craftsmanship. Installation is simplified with a bolt-on system that shows off the fully polished muffler and choice of a Dual-Back or Side Exit configuration. The Dual-Back design has fully polished 4.5" Elliptical tips and the Side Exit has twin 3.5" round, rolled-edge tips.

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Audiopipe-

Audiopipe introduces the new BGT-02G/BGT-02P. Available in a 24kt gold or Platinum finished this ground block adds to a complete line of car audio accessories made to installers spec. The BGT-02G/P is a grounding block that does not require crimping and with its custom removable inner ring it can adopt either a 4 gauge or 0 gauge wire. This prestige ground block gives ease to installers at work where an adequate ground is essential and workmanship is #1. This piece is packaged in a premium double blister packing which allows dealers to properly display and promote a product which at times can be difficult for a consumer to see its need; however its role in an install is vital.



Applied Products-

Applied Products has been manufacturing the Retrax for more than eight years. The newly redesigned cover is "flat from front to back," allowing water to flow off quickly without obstruction. This patent pending, one-piece polycarbonate design is engineered tough and streamlines the overall appearance of the bed cover.



AudioControl-

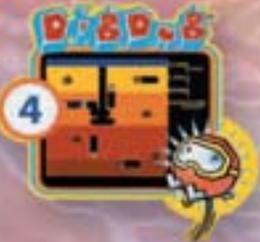
AudioControl announces the release of their new SPL-190 pressure sensor. The SPL-190 is a specially designed, low cost pressure sensor that interfaces with the AudioControl SA-3055 and can provide SPL readings up to 190 dB. The SPL-190 is a self-contained unit that incorporates a pressure sensor and a phantom powered microphone pre-amp into a single compact durable polished aluminum chassis. This allows the SPL-190 to literally plug into the AudioControl SA-3055 (both new and old) that have the SPL-180 software.

ROSEN 

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- Auto Day/Night Brightness Controller

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ClearVue II

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8.0" Wide Screen (16:9)
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7.0" Wide-Screen (16:9)
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15.3" Wide-Screen (16:9)
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Driving Technology



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Split Windshield TV Antenna with a built-in 26dB Amplifier. Available with F or 3.5mm connectors.



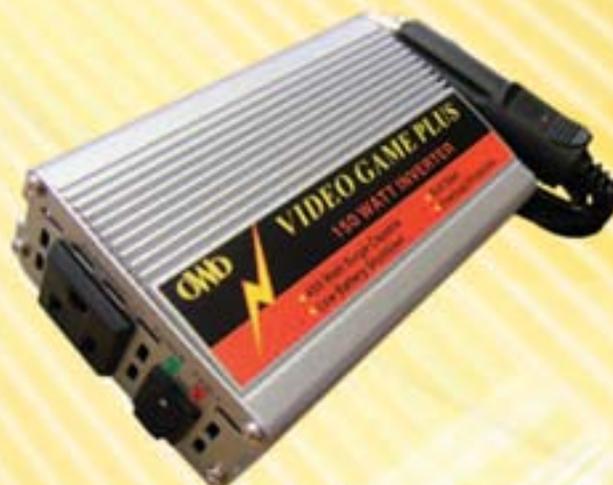
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GPN-110 & GPN-110/3

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AC-150S

150 Watt Inverter with Soft Start technology and 400 Watt surge.

New Product Showcase

The hottest new products in the aftermarket industry!



Pacific Performance Engineering-

Xcelerator is the latest endeavor that Pacific Performance Engineering (PPE) has manufactured. Designed for 2001-early 2004 LB7 Duramax Diesel trucks the Xcelerator will deliver up to an additional 230hp and 460ft.-lbs of torque. This unit features speedometer corrections, governor removals, Allison transmission resets, retains the stock program, offers four levels of performance, and increases the efficiency of the vehicle (2-4mpg on average).



PML-

PML now manufactures an extra capacity Ford TorqShift transmission pan. This transmission is used with the 6.0L Power Stroke Diesel. The pan features a capacity of 4.5 quarts over stock for reduced oil temperatures. The sand-cast aluminum construction and design provide strength and great looks. Raised fins also keep oil cool and add to the custom look. The pan has a precision-machined 0.350 inch-thick gasket flange for a uniform clamping force on the gasket so the pan is much less prone to leak than a stock pan with is typically 0.035 inch-thick stamped steel. The pan comes with a magnetic drain plug for easy oil changes and an un-drilled boss for temperature sensors.

PIAA Corporation-

PIAA Corporation has entered the highly-competitive road wheel market with the introduction of six stylish, performance-oriented wheel designs. PIAA is offering four models for performance cars and two for luxury SUVs and trucks. The one- and two-piece automobile wheels are manufactured from low-pressure cast alloy, while the SUV/truck offerings are either three-piece, low-pressure cast or one-piece forged, depending on the application.





Longacre Racing Products-

Longacre introduces their new Brake Bleed Bottles. Each kit includes two bottles, hose, caps and sealed fittings to keep fluid in the bottle instead of on the floor. The bottles have a magnet attached so that you can hang the bottle on your frame rail while bleeding the brakes virtually eliminating spills. The bottles feature a sealed cap to keep fluid in. Dual master cylinder systems require you to bleed the front and rear at the same time so two bottles are a must. The popular new kit comes with everything you need and is ready to use right out of the box.



Schefenacker Vision Systems-

Schefenacker Vision Systems introduces their new Telescopic Trailer Tow Mirror, a new mirror that can slide outward for improved rear vision while towing. The mirror fits the most popular Ford, GMC, Chevrolet, Cadillac and Dodge Ram trucks. The mirrors are designed for a clean, aerodynamic, factory-fitted appearance. Telescopic Trailer Tow Mirrors are built for toughness and tested to the truck maker's specifications. They replace a truck's original exterior mirrors and slide easily with up to 4-1/2 inches of outward adjustment. This allows most drivers to see past loads up to 102 inches wide.

Salient Designs-

2003-2004 Sienna vans without sunroof, part number SD376A. This latest console housing accommodates the Drive Mobile Entertainment DME-OH101 10.4 LCD monitor and the DME-DS04T DVD with TV tuner. This console housing has now been added to the vehicle specific console accommodations from Salient Designs. This application gives the installation facility the ability to combine both an overhead monitor and an ISO/DIN style DVD player and also accommodates the factory rear entertainment center which previously was being discarded by most Installers.



New Product Showcase

The hottest new products in the aftermarket industry!

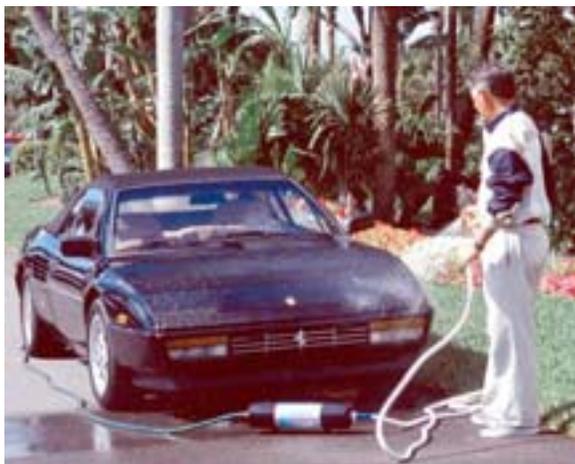


Ground Force-

Ground Force Suspension Systems manufactures high-pressure nitrogen gas charged shocks for many of today's most popular street trucks and SUVs. Some features of Ground Force nitrogen gas shocks include: urethane bushings, internal bump stops, sintered iron piston, 10-stage full displaced valving, unique seal, and double arc weld.

Crimestopper-

Crimestopper is proud to announce the arrival of their two new BackStopper Collision Avoidance Systems, the CA-5004, CA-5005, and CA-5006. The new CA-5004 system offers the highest level of protection and sensitivity with four mini "drill-in" type sensors for the rear bumper. Crimestopper includes the correctly sized drill bit for installing the sensors from the 5004 kit at no charge! The CA-5004 system includes a stylish dash display module with a 2 digit numeric distance reading and 3-color bargraphs for individual left or right object detection. The CA-5005 has all the features of the CA-5004 but with extended sensor cables for Pick-up Trucks. The CA-5006 also has all the features of the CA-5004 with an extended display cable for RV's.



Sport Masters, Inc.-

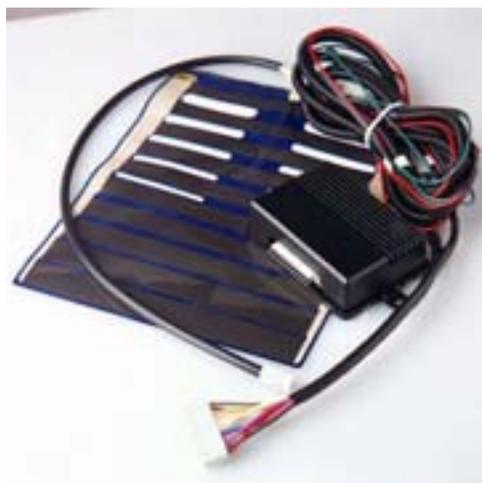
The Spot Free Water Filter and Water Softening System is ideal for any Boat, RV, or Automotive owner. This product is portable and assembles quickly making it ideal for the person on the go. The Spot Free System produces an endless supply of soft, filtered water for drinking and cleaning. This product is great for rinsing off your boat, vehicle, and even your house, without leaving the streaks, spots, and rings that unfiltered, hard water does.

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Orison-

Orison introduces their new Orison Expel Odor Neutralizer. Get rid of undesirable smells once and for all with Orison Expel Odor Neutralizer. Expel's 100% biodegradable non-toxic formula contains no alcohol or harsh solvents, making it ideal for use in vehicle interiors of every kind. Expel attacks the microorganisms that create unpleasant smells, so odors are gone with one application. Eradicate odor with Expel.



Rostra Precision Controls, Inc.-

It's now possible to add heated seats to any vehicle, with the Comfort Heat Seat Heater from Rostra Precision Controls, Inc. The product's elements offer a choice of 'low' and 'high' heating zones, supplying heat within 60 seconds to both the seat and lower back area of any seat in the vehicle. The Comfort Heat installs easily in an hour or less, without seat removal, and includes a three-year, 36,000-mile warranty.

Fidanza-

Fidanza's aluminum flywheel permits more horsepower transfer to the wheels, increasing acceleration. Drivers also realize extended engine life from decreased stress on the crankshaft. Made from high-quality machined 6061 T6 aluminum, with a warp-proof 1050 steel friction surface, the lightweight Fidanza aluminum flywheel is finished with a heat-treated ring gear and military grade fasteners. The alloy steel surface allows the use of just about any clutch disc material available.



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- Up to 1750 HP and 225 MPH
- New state-of-the-art software
- 2WD, AWD and portable models
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- Leasing and financing available

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No Speed Limits

New Product Showcase

The hottest new products in the aftermarket industry!



Pro Parts-

ProParts introduces a full pillar A-Pillar ProPod for the Nissan 350Z 03-04. ProPods are made of U/V heat resistant ABS plastic. Available only from ProParts. Full Pillar, Dual ProPod for 2 1/16" gauges- Part #92076. Full Pillar, Triple ProPod for 2 1/16" gauges- Part #93074.

MacNeil Automotive Products-

MacNeil Automotive Products Limited introduces the new addition to the WeatherTech line of Automotive Accessories. WeatherTech ClearCovers completely shield your license plate with a UV protected transparent polymer lens that is virtually indestructible. WeatherTech ClearCovers have a molded, flexible rubber gasket incorporated into the lens that helps prevent moisture and dirt penetration. The one piece construction also makes for easy installation and comes with a universal fastener kit made from pure Stainless Steel. ClearCovers complement virtually any vehicle's exterior.



Royal Purple-

Royal Purple Motor Oil is a tough, long life, high performance oil that delivers superior protection and enhanced performance to gasoline and diesel engines. It gains its performance advantages from a blend of synthetic oils plus Royal Purple's proprietary, synthetic Synerlec additive technology. Synerlec additive technology greatly reduces engine wear, including ring, cylinder and bearing wear. It is extremely tenacious, adheres to engine surfaces and remains after shutdown, which provides protection upon initial startup.

Rosen Entertainment Systems-



Rosen Entertainment Systems has launched the Patent Pending A10 All-In-One system with Integrated Video Games including, PacMan, DigDug, Rally-X, Bosconian and Galaxian. The A10 includes a 10.2" WVGA wide-screen display, integrated DVD/CD player, Dual-Zone controller, 16-CH wireless FM modulator, front IR repeater, remote activated screen deployment and dome lights, 2-CH IR transmitter, automatic day/night brightness, 2 headphones, mounting bracket, wiring harness, Neutral and Gray pod colors, Limited Lifetime Warranty and 4-color retail box.



Valley Industries-

Valley Industries has announced its Dodge Complete Hitch Update, which provides total product coverage for the vehicle manufacturer's most popular models, including: #69720 - Under-Bed System Gooseneck Hitch and Installation Kit for all 2002-2004 Dodge trucks, #70630 - Under-Bed System Fifth Wheel Hitch and Installation Kit for all 2003-2004 Dodge Ram 2500 and 3500 pickups, and #82670 - Dodge 1500/2500/3500 Class III & IV Receiver Style Hitch for all 2003-2004 Dodge trucks (no drilling required).

Mr. Gasket Performance Group-

Designed specifically for Mustang high-performance applications, these ultra-durable 7075 T-6 forged aluminum flywheels from Hays will not break apart under the stress of high RPM and severe punishment of racing. Features include a replaceable steel heat shield friction surface and neutral balance. Meets S.F.I. specification 1.1.



New Product Showcase

The hottest new products in the aftermarket industry!



MITO Corporation-

MITO Corporation introduces a great plug & play way to send audio from portable devices to home and car stereos with wireless ease, convenience and clarity. The Audio BUG is designed to work with any portable audio device. This exciting new product features patented wireless technology to send high-fidelity stereo audio signals from any audio device to any FM radio or stereo with a range of up to 15 feet. An automatic off feature turns the AudioBUG off if no audio is detected after 80 seconds, saving battery life.

Crimestopper-

Crimestopper announces the arrival of their new PlateCam rear vision systems. This revolutionary patented camera design integrates a color rear vision camera with a stylish license plate frame. It's available in two easy-to-mount universal styles as a "Full Frame" version or a top "Bar Type". Each style is available in Bright Chrome or a Matte Black finish. The 130 degree ultra wide-angle CCD color camera provides rear images in real time and eliminates the dangerous "blind-spot" directly behind your vehicle when backing. The system works day or night, on any size vehicle. Installation is simple with no major tools required. The PlateCam's are available individually or as a complete package with a compact 3.5" LCD video monitor.



Ultimate Security Systems Corp.-

Ultimate Security Systems Corporation introduces their new Power Lock. The Power Lock base unit transmits a signal to the corresponding key fob. When the two components are within range of each other, the signal is recognized, and the vehicle automatically unlocks the doors and disarms the security system. In addition, as the driver walks away from his/her car, the signal is broken, and the vehicle's doors lock and the security device arms.

autostylin



SPC Performance-

SPC Performance introduces this new control arm (Part No. 67210) that makes it possible to adjust rear camber on all production models of Dodge and Plymouth Neons, including the SRT 4. This arm may be used on vehicles that have been lowered for performance and appearance as well as vehicles that have retained their stock ride height. The adjustment range for camber and toe on this arm is -3.0i to +3.0i, when two arms are used on each side (if one arm is used on each side \pm .75i camber and toe change can be achieved).



RAZZI-

The RAZZI 2004 Chevrolet Aveo Ground Effects Package features a "RAZZI Signature Splitter styled" Front Air Dam, a set of matching designed "Sweep Styled" Side Skirts, and a complementary dual exhaust Rear Air Dam enhancing the factory lines. Additionally, RAZZI also offers their stylish accessory "Mesh Screen Set", (#198-MS-12) to put the "finishing touches" to this sporty Aveo Ground Effects package.

Crimestopper-

Crimestopper Security Products Inc. announces their new CS-2012TW1 2-Way System. The CS-2012TW1 Combo system will round out their current line of systems that use their popular super-slim LED pager design. The CS-2012TW1 system also includes a redesigned 1-Way "Sidekick" remote control with their new Blue "CoolFlash" Flashlight LED feature. The CS-2012 system pages the user unique audible and visual alerts for engine starting, locking, unlocking, vehicle tampering and more. The CS-2012TW1 system also includes a long list of installer-friendly and convenience features such as on-board remote start relays, 25 customizable options and more.



New Product Showcase

The hottest new products in the aftermarket industry!



True Flow-

True Flow, a leading manufacturer of automotive performance accessories is pleased to introduce True Flow sealed air intake systems for 01-04 diesel applications. True Flow has taken a unique approach to air intake design. By replacing restrictive factory components with ultra high quality performance parts, True Flow delivers a blend of reliability, proven performance and value.

Pro Rac Systems-

Heavy Duty Work Rac from Pro Rac Systems. Components are made of rugged aluminum alloy with a tough black powder coat finish. Work Rac Load bars are available in two sizes 54" & 72" Load bars. They will work on any fiberglass Truck Cap and Tonneau cover. Accessory available sliding tie down kit and adjustable load stops.



QA1-

With the recent acquisition of Carrera Shocks, QA1 now offers an even more complete line of shocks for Hot Rods and Street Rods. New additions include, but are not limited to, chrome plated and polished steel shocks and springs. These new products complement QA1's existing line of adjustable and non-adjustable, bright anodized aluminum shocks, which are now offered in a highly polished, mirror-like finish.

autostylin



Classic Design Concepts-

Classic Design Concepts introduces the new 6-speed plunger, this plunger not only looks cool but also serves a practical purpose. Using rubber pump to adhere firmly to the floor through suction, the racing enthusiast can keep busy by practicing gear changing (shift pattern is etched into knob). Or they can use it for its real purpose...plunging. The knob and the shaft are made of CNC-machined alumi-

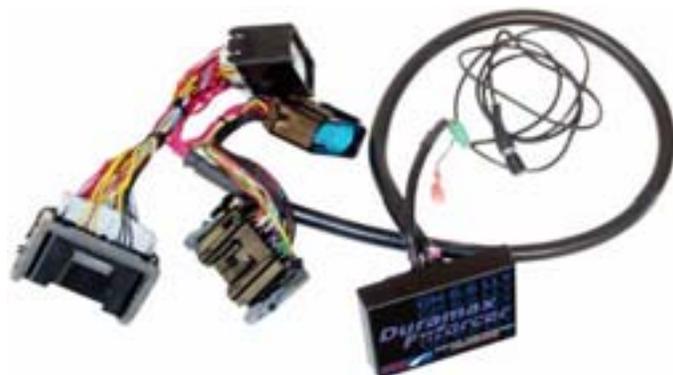


Pro Fit International-

Pro.Fit International, Inc. has introduced the new VSM Legend series of vehicle specific mounting brackets. Attaching to the dash substructure, the Legends offer a superior mounting platform with an integrated swivel. Adjusting the viewing angle is now simple for phone cradles, hands free accessories, satellite radios, GPS, or even iPods. Some VSM Legends have applications for more than a dozen vehicles helping to minimize costly inventory.

Pacific Performance Engineering-

Pacific Performance Engineering (PPE) is proud to bring you power for the all new 2004 Duramax diesel LLY Engine. The Enforcer is a powerful control module that comes with three positions that are adjustable on the fly. The first position retains stock, while level two delivers an additional 98hp, and level three adds 175hp. The Enforcer can be installed in minutes.



The Ultimate Towing Mirror Now Available with Turn Signals!



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Breaks away to
front & rear!

Extends to 21 full inches.

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We now fit the new
Dodge Pickups and
Ford E Series Vans!



The Ultimate Towing Mirror.

For more information call: **1-800-337-2557**
or visit our website at www.powervisionmirrors.com



JL Audio-

JL Audio introduces their new Hummer H2 Stealthbox. The Hummer H2 Stealthbox houses a 400-watt, 12-inch subwoofer capable of filling an H2 with big, beautiful bass. The carpet-covered enclosure (available in colors to match the interior of the vehicle) installs on top of the driver's side rear panel behind the spare tire mount which allows full use of the cargo area while providing protection for the woofer.



Mr. Gasket Performance Group-

Mr. Gasket Performance Group introduces the new GSPORT PRO Honda B-Series Starter. For high performance Hondas, GSPORT PRO Honda B-series Starter solves all the potential problems that an OEM starter can't handle, delivering the highest torque and efficiency available. With a 4:1 Gear reduction, 1.9 HP, and cranking power for up to an 18:1 compression ratio, you can be sure this baby will start your engine.

Alphasonik-

Alphasonik introduces their new PSW210, 10" DVC subwoofer. Patented Sure-Lock terminals and heat-sink cooling fins which help keep the motor structure cool for greater power handling to the high rigidity inverted dome mineral filled composite cone. Other features include an EPDM surround for greater excursion, a flat progressive rate Nomex damper with spiral woven leads and a 30 oz double stacked magnet give it the tools to make monster bass. This woofer works well in both sealed and ported applications including band pass applications.



New Product Showcase

The hottest new products in the aftermarket industry!



AirWerks-

AirWerks, the new aftermarket forced-air technology brand from BorgWarner Turbo Systems North America, introduces two lines of turbochargers, the K and S series. Now, American auto enthusiasts will be able to add the same turbochargers to their vehicles that come as factory equipment on such venerable performers as the Audi RS4 Bi-Turbo and the Porsche 911 Turbo.

Universal Brass Inc.-

Universal Brass Inc. of Auburn, WA introduced its newest Embossed version of hitch receiver covers. It's a "jump off the hitch 3D look" for popular logos such as Chevrolet; GMC; Dodge; Toyota and Jeep. The extremely touch Teflon-like finish can be cleaned with steel wool without scratching, making it easy to care for. These embossed covers are available in insert style and UBI's famous Hitch-Door.



Mr. Gasket Performance Group-

Mr. Gasket Performance Group introduces the new Lakewood Clutch Fork Boot. Made of soft pliable rubber which flexes easily, this Lakewood Clutch Fork Boot helps keep unwanted dirt, dust and moisture from entering the bellhousing and causing contamination of the clutch. Fits all Chevrolet Lakewood safety bellhousing applications.



Bekaert Specialty-

ComputerCut integrated business system is one program that stays ahead of the market with its continuous software improvements. A Bekaert Specialty Films exclusive, this popular internet-based film and vinyl cutting system is designed to revolutionize a dealer's current level of operations with instant access to over 1,500 window film patterns, 500 paint protection film patterns and 1,200 etched glass art images - with new patterns being added regularly. The precision plotter cuts each standard pattern in less than two minutes with minimal waste, saving users time and money.



CyberTrak-

CyberTrak is the vehicle interactive system that allows customers to track their vehicles effortlessly via PC or telephone. Installation of CyberTrak's cigarette box-sized module is simple, and with installer upgradeable features like door unlock and starter disable, dealer profit margins are easily expanded. For remote start users, CyberTrak has just added a new model with a 2nd auxiliary output, providing customers the ability to remote start their vehicle via telephone or PC at anytime, from anywhere in the world.

Crimestopper-

Crimestopper Security Products Inc. announces the release all new professional strobe light kits under the brand name "Strobetronix". Crimestopper offers 3 ultra-powerful kits including 4-light kits with either "M" type or "U" type bulbs and a top of the line 6-light kit with "M" type bulbs. M type bulbs are slightly brighter and higher priced than their U-type counterparts. These kits include a High-Output 60-Watt power supply and a control switch array that allow users to control different flashing patterns.

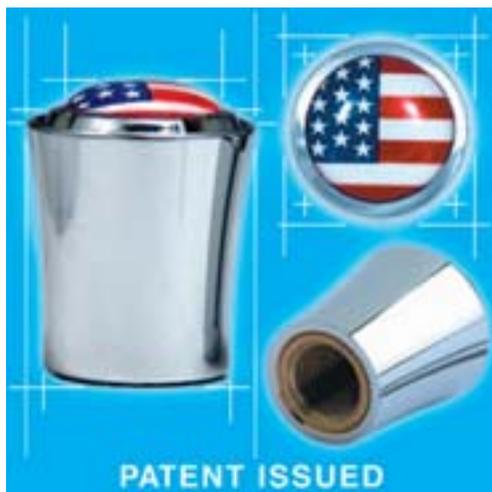


New Product Showcase

The hottest new products in the aftermarket industry!

Universal Brass Inc.-

Myron Lewis of Universal Brass Inc. announced a patent has been issued for their all new cone shaped valve stem cap. The cone shape allows for a 33 percent larger logo than the current hexagon design. Lewis said "wheels have grown up since 1991 when the hexagon design was first marketed. In 1991 wheels were 13 inch, today 17 inch wheels are standard and 21 inch wheels are quite common." A threaded brass core is another major feature.



Swiss Audio-

Swiss Audio introduces their new SPL1090 ultra excursion woofer series. It features a boasting FATT 50mm treated foam surround, 110 oz. Double stacked Strontium magnet structure and a 75mm 4-layer ASV voice coil. Rated at 600 watts RMS with dual 4-Ohm voice coils, this is a very versatile woofer that can be wired parallel at 2 Ohms or series at 8 Ohms. Other features include frequency response of 24Hz - 500Hz, Sensitivity of 92dB @ 1w/1m, ICED silver epoxy coated cone, Heavy duty push spring terminals, chrome t-yoke and back plate and voice coil venting for maximum cooling efficiency.



Luster Lace-

Luster Lace Chrome Polish is by far one the best chrome polishes on the market today. It is formulated for cleaning and protecting fine surfaces such as chrome, gold plating, anodized metals, painted metals and clear coat. Luster Lace Chrome Polish easily polishes chrome to a brilliant shine and leaves a protective water-repellent coat.

autostylin

Graco-

Graco's new HVLP Turbine Spray Gun is quickly becoming the new standard in Turbine Guns that can be used with virtually any manufacturer's turbine sprayer. This non-bleeder style gun has great new features such as external packings, rear adjustment controls, and the exclusive duckbill checkvalve. The EasyGlide Trigger system makes trigger pull 35% to 75% lighter than the competition. Several cup assembly options are available including gravity feed cups, touch-up cups, 70 or the standard 1 qt cup pictured.



Plasmaglow-

The NEW Ultra-Gold Bulbs from PlasmaGlow have 24 Karat Gold bases and tips. This allows for maximum conductivity and brightness, as well as unmatched style. These bulbs feature the PlasmaGlow Platinum Series bulb that shines crisp white with the brightness and clarity of HID Lighting systems found on high-end luxury vehicles. PlasmaGlow bulbs are the highest quality bulbs available which is why they are the only company to offer a 10-Year Replacement Warranty on all bulbs.



Ruckus Rod and Kustom-

Ruckus Rod and Kustom has revived the fun and excitement with its collection of metal racing posters. And it nails onto your wall. The embossed metal signs that have made Ruckus a hit with rodding enthusiasts are now available as Embossed Metal Posters. These posters look like they were torn right off the barn or the local phone pole. Each of the four diverse signs advertises a different event: Drag Races, Stock Cars, Flat Track Motorcycles or Roadsters. Durable, Embossed Metal Posters are faded with time and, riddled with bullet holes bring the best of the "good ol' days" to life.



New Product Showcase

The hottest new products in the aftermarket industry!



Centerforce-

Centerforce®, the leader in multiple-use clutches, expands upon its DFX product line for sport compacts. The DFX Level 3 kit is now available for Honda and Acura B-series 4 cylinder engines. The race-only Level 3 kit consists of a solid hub clutch disc with a powdered metal composed 4-puck orientation and a DFX billet steel pressure plate. The DFX line is the next generation in clutch technology with a billet steel pressure plate incorporating drive stop limiters to resist drive stop breakages resulting from severe downshifting. DFX also utilizes a ball-bearing pressure plate design allowing for higher clamploads, quicker releases and no additional stresses to the vehicle's clutch release system.

Mountain Top-

Mountain Top Industries once again proving why their tonneau covers are one of the best. With more options for our tonneau covers than any other tonneau cover manufacturer. Mountain Top has now went one step further by changing the way their tonneau covers are mounted. Now with no drill application for most models. Their new clamp-on side latch mounting system is a big hit with dealers and customers alike. Adding to their line of models available the new Chevy/GMC Crew Cab 1500 5' bed, and the Chevy/GMC Colorado/Canyon both in Crew Cab and Extended Cabs.



Perrycraft-

Perrycraft, Inc announces their DynaSport Bed Rails for Pickups, Fiberglass Truck caps and Tonneau covers. Installation is quick, easy and profitable. Include matching DynaSport Roof Rails on the truck cab for a great look. Add Mont Blanc Locking Load Bars to the Roof or Bed Rails for heavy-duty load capability. A broad selection of sports equipment carriers (Barracuda™ bike carrier shown) and load securement accessories are also available.

Power Vision-

Revolutionary Power Vision mirrors, the first electrically extending towing mirrors, add safety, style, and convenience to your towing experience. This ultimate towing mirror electrically adjusts 6 ways and each mirror extends up to 5 inches giving you a tip-to-tip measurement between 109" and 112" depending on the vehicle make. Power Vision offers models for GM/Chevrolet, Dodge, and Ford vehicles. Heated and unheated models are available. Also available with turn signals for trucks with the stock option.



Centerforce-

The ultimate street performance clutch company, Centerforce®, is introducing their Dual Friction clutch assembly for the 2003-2004 Dodge Ram with the 5.7L Hemi engine. Designed as a direct bolt-in replacement, the Dual Friction holds power upgrades well beyond factory and aftermarket performance bolt-ons. Centerforce engineers and builds the Hemi clutch for multi-purpose use by incorporating patented processes such as the centrifugal weight system and, of course, the Dual Friction clutch disc.



MOMO-

MOMO is proud to introduce a new Trek steering wheel: TREK-R! MOMO's new Trek steering wheel is crafted in black leather with gray stitching and polished aluminum and chrome spokes. Size 350 MM diameter.



**CENTERFORCE CLUTCHES OFFER
A HIGH LEVEL OF PERFORMANCE AND DRIVABILITY**

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FOR INCREASED PERFORMANCE**

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SUBARU WRX STI
NISSAN 350Z

**CONTACT US AT
(928)771-8422 OR
WWW.CENTERFORCE.COM**

*Weights not available on all vehicles due to clearance**



O.W. Donald's Apollo Antenna

Car audio and Video have come a long way since the first TV was put in a vehicle. Once a luxury found on high end Tour Buses and Limos, it's not uncommon for a daily driver car to come from the factory with

flip-down flat screen monitors or DVD navigation screens. But no matter how advanced and affordable this technology became, a bulky, outside mounted antenna was needed for local television reception, but not anymore!



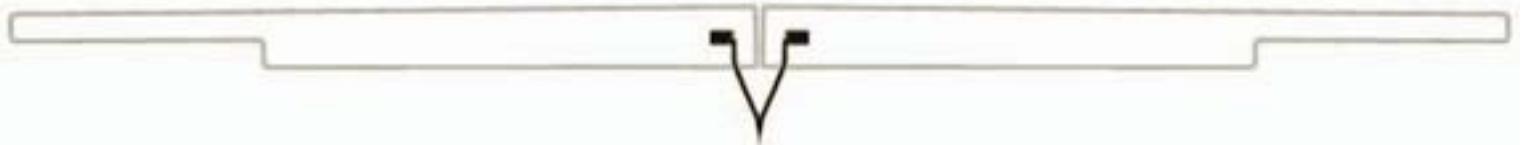
The antenna comes with a co-axial connector with an adapter for european equipment.

The Apollo Antenna from O.W. Donald gives you the best of both worlds with revolutionary new technology that not only provides you with better TV reception than a conventional automotive antenna, but does so in a completely transparent, paper thin antenna element.

bottom with almost no change in the cosmetic appearance of the vehicle. It installs with a squeegee and water, much like window tint or vinyl auto graphics, leaving it not only transparent, but also removable.

The Antenna itself is completely transparent, so it can be installed on your windshield at the top or

Once installed, two wires plug into the antenna (shown below) from the amplifier, which is wired to a 12v source and the TV tuner. This 4 step installation requires no drilling, and the wiring that comes with the kit is long enough that it is very unlikely that you will have to extend them, even in an SUV.



O.W. Donald has a solid product on their hands here, with easy installation and great product value. Anyone with the old style of car TV antenna can appreciate the invisible antenna elements of the Apollo Antenna, which outperforms even standard TV antennas.

Contact Information for O.W. Donald:

Phone: 1-479-646-2303
 Fax: 1-479-646-2308

Website:
www.owdonald.com

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AIR RIDE SUSPENSION SYSTEMS

Billy Boat's

Project SRT-4

Feature Vehicle

Though relatively new to the sport compact market, Billy Boat Performance Exhaust has been manufacturing revolutionary stainless steel exhaust systems for nearly fifteen years. A pioneer in Porsche turbo exhaust systems, intercoolers, and oil coolers, the R&D staff at B&B is the authority on turbo engines and exhaust systems.

B&B recently had Vivid Racing's Project SRT-4 owned by Jimmy Boothroyd on loan for the prototyping and development of a cat-back and turbo-back exhaust system. The Vivid Racing Project SRT-4 is a factory Mopar Stage I and arrived at B&B with an AEM Short Ram Air Intake and a little over 6,000 miles. We were on hand for the installation and testing of the first production article and asked if we could sit in on the install.

The first order of business was to establish the baseline dyno horsepower and torque numbers prior to the installation of the cat-back and turbo-back systems. B&B's Research and Development Manager, Eric Johnson, strapped the SRT-4 down to the in-house DynoJet chassis dyno to get the initial horsepower and torque readings. Chassis dynos measure the power to the wheels therefore the results are less than that of the factory claims which measure the power at the fly-wheel. The initial baseline results for Jimmy's ride indicated 215.6 wheel horsepower and 264.6 lb-ft. of torque.

After establishing the initial dyno results, the SRT-4 was taken off the DynoJet and wheeled over to the installation bay where the car was put onto the lift and left to cool before the factory system was removed. Removing the factory system is a fairly simple process however it is recommended you take the car to a qualified automotive shop for removal and installation since they will have all the necessary tools and equipment.

In just under an hour we successfully removed the factory exhaust system and installed the full 3 inch stainless steel turbo-back by Billy Boat Performance Exhaust. After doing a few laps around the building to hear the sweet sound of power we decided to re-dyno the ride and see what gains were made with this mod.



Photos by: Chris Martin



Aftermarket Vs. Stock exhaust

After strapping down the Vivid Racing Project SRT-4, we ran the car hard in 4th gear and got a read of 232.5 horsepower and 276.9 lb-ft. of torque. Ideally, we would have liked to run the car a few hundred miles after installing the exhaust so the computer had a chance to "learn" this modification but a gain of nearly 17 horsepower and 12 lb-ft. torque with just the B&B turbo-back is much more than to be expected from this simple exhaust system swap!

Contact Information for Billy Boat:

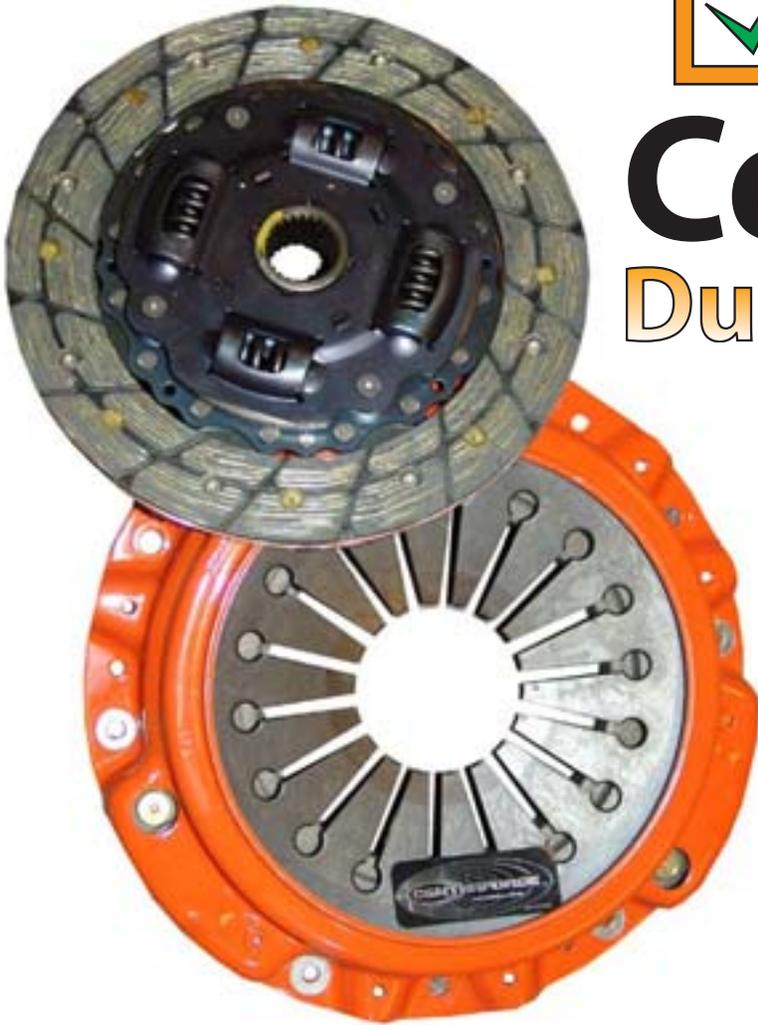
Phone1: 1-888-598-3688

Phone2: 1-623-581-7600

Fax: 1-623-581-5640

Website:

www.bbexhaust.com



Centerforce Dual Friction Clutch

Centerforce manufactures their own special brand of clutches and flywheels that for anyone from the daily driver looking for a beefier clutch, to the track enthusiast looking for a competitive edge, to the full blown shop-built race car driver. The Centerforce line of Dual-Friction Clutches are designed to give you up to 90% in holding capacity over the stock clutch, giving your engine the claws it needs to get a firm grip on your drive-train. Dual-Friction clutches are designed to be put on specific makes, models and years of vehicles, so make sure you check out their full catalog on their website before you decide to buy.

We tested our Centerforce Dual Friction Clutch on our Honda S-2000, which has nitrous installed for that *extra* little kick at the high

end of the RPM spectrum. The factory clutch was pretty much destroyed when the owner decided to take it to the track, so we had our mechanic throw the Dual Friction Clutch in, then we took it for a spin! We immediately noticed that the clutch pedal now lacked the "wimpy" feel of the stock clutch, but was still comfortable enough to drive to work every day. This is a plus for the part time race enthusiast that has to peel the numbers off his ride every Monday morning before he heads off to work. Stop and go traffic, always hell in a 6 speed, was no more of a nuisance than it ever was with the stock clutch, but you could really feel the engine grip those gears when you dropped it into 1st!

In all, this is the high end stock clutch replacement that comes before you graduate to the insane clutches that are used in drag-racing and NASCAR. It certainly has stood up to the manufacturer's claim of almost double your holding power, at least in our ride, and the price is fair for a performance clutch. You can order the disc and the pressure plate separately, but it's always ideal to keep as much of a mechanical system consistent as you can. So go on out and treat yourself to that racing clutch you've always wanted, and make sure you've got good tires!

Contact Information for Centerforce:

Phone: 1-928-771-8422
Fax: 1-928-771-8322

Website:
www.centerforce.com

American Autowire



Wire it Right!

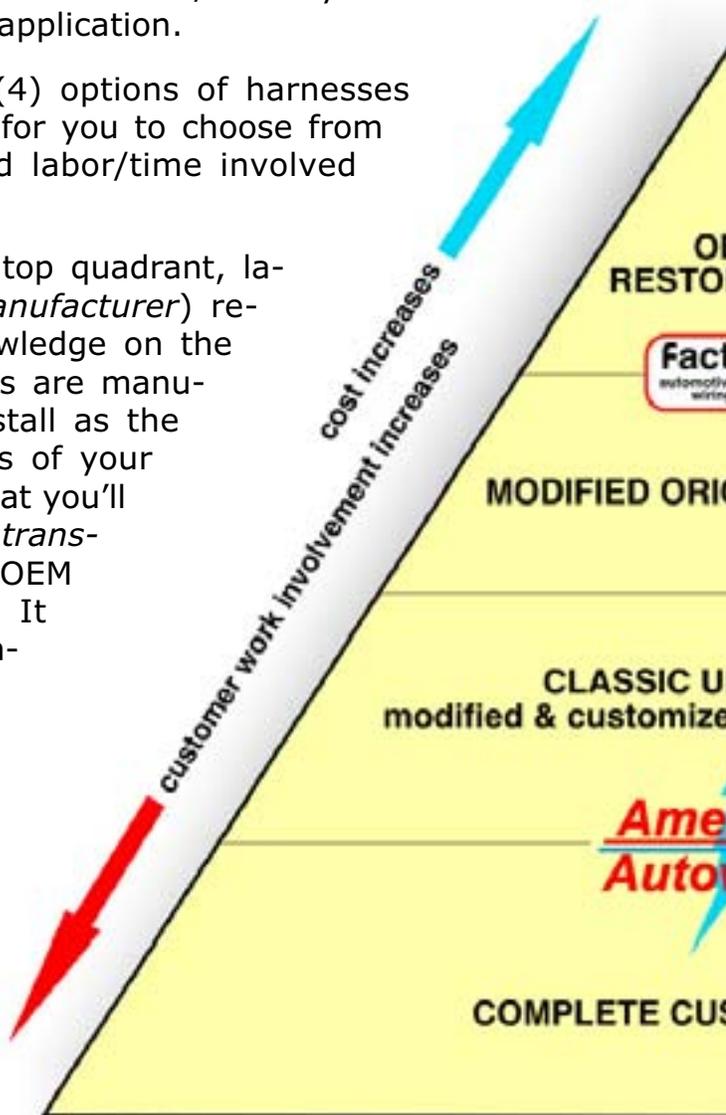
How do I choose the right wire for my vehicle? For some people, this simple question is among the most difficult to answer when considering what to do with their project car. By answering a few questions and taking the time to consider what you expect to achieve as a final result of your wiring efforts, American Autowire/Factory Fit can

help you choose the wiring that's best for your application.

This chart is a pictorial description of the four (4) options of harnesses that American Autowire/Factory Fit has available for you to choose from - including an explanation of the knowledge and labor/time involved with your decision.

Upon looking at the Triangle, you'll see that the top quadrant, labeled "OEM Restoration" (*Original Equipment Manufacturer*) requires the least amount of labor and wiring knowledge on the part of the installer since these specific harnesses are manufactured to OEM specs. They will appear and install as the original did. You only need to know the specifics of your vehicle to accurately order the correct harnesses that you'll need (*for example: year, make, model, engine, transmission, air conditioning, console gauges, etc*). OEM harnesses allow for almost instant gratification. It can take approximately 8-12 hours to wire the entire vehicle. The OEM harnesses typically cost more since all of the building of the wiring harness is done for you. These are what are commonly referred to as a "plug and play" application.

The second quadrant, labeled "Modified Original Vehicle", depicts the need for a little more knowledge and experience on the part of the installer. However, this typically involves only the correct specification of modification. These harnesses are OEM harnesses that include standard modifications. These modifications can include, but are not limited to - internal regulator, one-wire alternators, after market gauge conversions, HEI, etc. Often times, the owner of



the vehicle isn't necessarily aware that these modifications are so common place that standard applications have been built and are stocked for these updates. Luckily American Autowire/Factory Fit can help explain to you what options you have available for your specific year, make and model vehicle. This option of wiring allows the owner to maintain an original appearance while modifying the harness for his specific needs. Installation can take approximately the same time as an OEM application as these harnesses are also "plug & play".

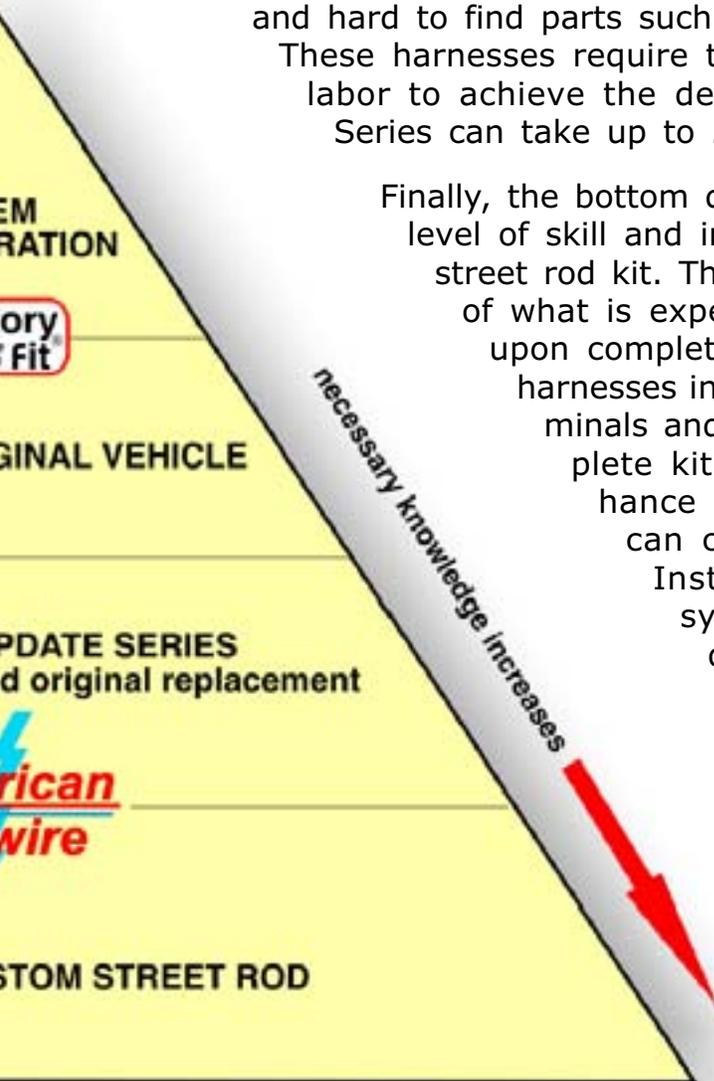
The third quadrant moves you into an area where significant modification of the electrical system is necessary to accommodate the heavier requirement placed on the electrical system by features that were not designed into the original system. In this case, the capacity of the original electrical system will be exceeded. If this seems applicable to your application, then the Classic Update Series is the perfect wiring kit for you. These kits are designed to fit specific vehicles with after market additions such as air conditioning, updated steering columns, after market gauges, high output alternators, etc.

These kits come complete with enough wiring for the owner/builder to route the harness according to their personal preference. The Classic Update Series kits come with the fuse box, instructions, wiring, connectors, terminals, and all the unique and hard to find parts such as light socket assemblies, specific to the vehicle.

These harnesses require the owner to use a bit more creativity and skillful labor to achieve the desired outcome. Installation of the Classic Update Series can take up to 20-30 hours.

Finally, the bottom quadrant shows that the installer must have a high level of skill and involvement when rewiring a vehicle with a custom street rod kit. The owner/builder should have a good understanding of what is expected from the vehicle and how it should function upon completion. As with the Classic Update Series kits, these harnesses include fuse box, instructions, wiring, connectors, terminals and in some cases switches, making it the most complete kit on the market. Creativity and flexibility will enhance the appearance of the vehicle wiring; however it can cause this type of harness to be labor intensive.

Installation of a completely modified vehicle wiring system could take anywhere between 25-35 hours, depending on the complexity of the system you choose, and if you are going to have any of these installations performed by a third party, you should take into consideration the labor charged for wiring a complete vehicle whether you are using a modified harness or an OEM harness.



Contact Information for
American Autowire:

Phone: 1-800-482-WIRE
Fax: 1-856-933-0807

Website:
www.americanautowire.com

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Transforms vehicle into a 2-room sleeping area.
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Designed for the great outdoors.



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Inside The Milbert BaM-235

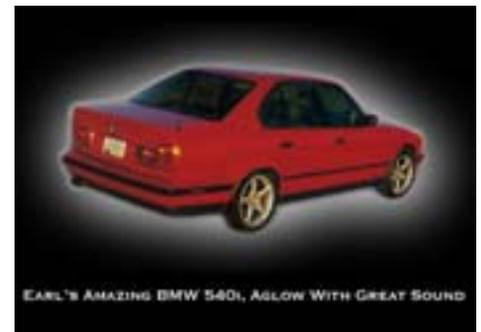
Tech
Corner

Though the legendary sound quality and high-end home audio pedigree of the Milbert BaM-235 mobile vacuum tube amplifier makes it at ease in even the finest home audio systems, its installation and particular are as typical and tame as any other car amp.



Golden Sound, Literally

Earl Zausmer garnered much media attention several years ago, appearing on television, in hundreds of newspapers, and winning countless awards, including "best of show" and even "best sounding car on earth," with his show-stopping BMW540i. Among many other car-audio-firsts, Earl's car has two gold-plated Milbert BaM-235 amps. Many more pictures are available online at www.milbert.com/earl



The media exposure has been wonderful, but the exceptional, involved, champion image and aura surrounding his car perhaps projects an exception and not a rule regarding the rather commonplace system requirements, installation, and maintenance of a BaM-235.



The BaM-235 is actually warm, lovable and installer-friendly, and with little effort, it will benefit and improve the sound of nearly any car audio system.

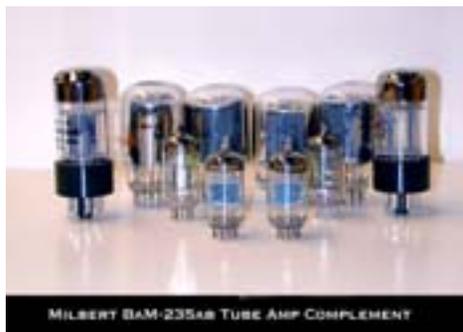
Musicians love tube sound quality for good reason, and the 100% all-tube signal path in the BaM-235 lets you hear why, daily. Its natural sound and startling realism demand that even if you sell your car you'll keep your amp. The BaM-235 sports a long, proven track record of in-car reliability and a design pedigree that dates back decades into high-end home audio. Cost-no-object American design and build means the BaM-235 works well and sounds superb.

Two Small Differences

There are only two differences between installing a Milbert BaM-235 mobile vacuum tube amplifier and anything else: One is that it mustn't be mounted upside-down--it needs adequate airflow for cooling, just like any amp. The second: cold tubes take a few seconds longer to warm up gradually to listening levels, but the happy side-effect is an end to those annoying blaring-radio startups.



Ten Warm Little Light Bulbs



Its ten vacuum tubes consume about 5 amperes at idle --about the same as one low-beam headlight-- and about 20 amperes at full, constant power. With (naturally peaky) music the actual draw at full power is typically much less: A standard car battery can power the amp at normal listening levels for seven hours (we've used it at shows this way). For protection, the BaM-235 is fused and internally current limited to 25 amperes; however, this safety feature rarely activates outside of testing.

No Massive External Capacitors Needed

The tightly regulated and properly designed BaM-235 does not appreciably benefit from large external energy storage capacitors. Sure, having a bigger reserve never hurts, but the BaM-235 already has its own massive internal reserves, properly designed in the best place, right where the power is needed most.

Since 1986, the BaM-235 internally stores up to fifty joules of high voltage energy, which is regulated and recharged at supersonic frequency. This properly located, huge reserve audibly matters, and it's one reason for the BaM-235's unmatched sound quality.



Physicals

The BaM-235 weighs about 20lbs. and it is a bit larger than a shoebox. It should be mounted to a sturdy surface. We provide neoprene well-nuts and mounting hardware that give a slight shock resistance while providing dependable mounting. Patented circuitry precludes microphonics (noise due to mechanical vibration). Tapping, hitting, shaking, jostling, dropping, or kicking a playing BaM-235 will not reveal even the slightest hint of microphonics. Impervious.



than mil-spec circuitboards. Conservatively operated tubes exhibit lifetimes that routinely span ten years or more.

Various output impedances are available: 16ohms, 8ohms, 4ohms, 2ohms, and 1/2ohm. All of which are unconditionally stable: You can (but probably shouldn't) disconnect the speakers or short them out for any length of time, even at full power, without causing any damage to the BaM-235 whatsoever. Dare that feat with any other amp.

While the BaM-235 excels in sound quality, musicality, reputation and renown, sheer listenability and enjoyment, high-end home audio design-pedigree, proven in-car track-record, and outstanding durability and reliability, it's also at ease in everything from the world's finest to everyday car audio systems. We believe the BaM-235 will improve the musical enjoyment and emotional impact of any car audio installation.



Thirty-Five Watts

We sometimes hear complaints that "it's only 35 watts," or, "it's not powerful enough for a subwoofer." These mendacious worries never come from owners and are usually mustered by those who may not understand proper audio system design or who haven't experienced the indescribable clarity, immediacy and airy naturalness, for example in Earl's car.

The BaM-235's tubes clip gently (unlike the unforgiving harshness immediately encountered when an output transistor clips from being overdriven) and its sound quality is generally richer and more wholesome than that of transistorized amplification. Consequently, the BaM-235 can subjectively sound like a much more powerful amplifier than its objectively rated 30 watts-per-channel might indicate. Owners report this time and time again.

There is also the "efficiency" of the speaker to consider: Proper design and build (powerful magnets, a pliable surround, etc.) make for an efficient speaker. Efficiency ratings from speaker manufacturers can vary all over the place, and one has to be careful when comparing speakers to be sure their efficiencies are measured under the same conditions. It's been our experience that the better sounding speakers often have higher efficiency and are generally more expensive to manufacture.



← Sound Pressure Level (decibels @ 1 meter) →

	75	78	81	84	87	90	93	96	99	102	105	108	111	114	117	120
78	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384
81	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	4096	8192
84	0.125	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	4096
87	0.062	0.125	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048
90	0.031	0.062	0.125	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024
93	0.015	0.031	0.062	0.125	0.25	0.5	1	2	4	8	16	32	64	128	256	512
96	0.008	0.015	0.031	0.062	0.125	0.25	0.5	1	2	4	8	16	32	64	128	256
99	0.004	0.008	0.015	0.031	0.062	0.125	0.25	0.5	1	2	4	8	16	32	64	128
102	0.002	0.004	0.008	0.015	0.031	0.062	0.125	0.25	0.5	1	2	4	8	16	32	64
105	0.001	0.002	0.004	0.008	0.015	0.031	0.062	0.125	0.25	0.5	1	2	4	8	16	32

Approximate Output Power (Watts) Needed To Attain SPL Volume (in dB) Using Speaker of a Given Efficiency

While the output of a speaker (measured in decibels, dB) for a given amount of amplifier power is termed its efficiency, over the years marketing has emphasized wattage rating at the expense of efficiency. Both values are required to convey maximum meaning. Without a companion efficiency rating, wattage rating alone becomes more a damage limit guide of maximum power handling capability. It's unfortunate that this has become the default. The chart shows the huge importance of efficiency.

In actuality, neither criterion will tell you how a speaker sounds to your ear or how much you will enjoy listening to it with a particular amp. The fact that a car has 200 watt speakers and a 500 watt-per-channel amp is not a criteria for loudness or enjoyable sound. For example, Earl's car has only 60 watts (from two BaM-235 amps) across four speakers above 100Hz.

In listening to systems that range from exotic to factory stock, we sometimes use audiophile grade interconnects and speaker wires and home quality speakers. The BaM-235 coupled with audiophile gear and high efficiency speakers can be very revealing. It is not kind of, sort of, maybe sometimes, or slightly better, but the improvement is large and immediately apparent. Veils vanish and things not previously heard leap out from the music: The ambience, the many nuances and intricacies, the breaths, sighs and shimmers all become audibly apparent. And you feel the emotion.



Drumbeats that were perhaps homogenous thuds in SPL-competition systems are transformed, in that the type of drum sticks, the sticking or playing style, and even the drum head material itself becomes discernible. New layers are revealed. Duet voices become independently distinguishable and harmonious, instead of blurred. A woman's voice in a recording you've heard many times can suddenly make the hairs on the back of your neck stand on end. That's the kind of resolution, detail and emotional impact which you can routinely expect from the BaM-235. In any system, the BaM-235 helps you feel music, and that is priceless.



Incidentally, the BaM-235 provides its power with exceedingly low noise. For instance, you can connect an efficient horn speaker to the BaM-235 and put your ear right up next to it at idle but not hear hiss or noise. The power from the BaM-235 is pure, clear, and distinct. This makes it even friendlier to highly efficient speakers.

Alternatively, our TC-2R and TC-4R vacuum tube active subwoofer crossovers effectively double the power of the BaM-235 amp (or of any amp) by channeling half the energy in the audible spectrum (i.e., below about 100Hz) to a subwoofer amp

and speaker that can best handle those low frequencies. This is because about half of the energy in the audio spectrum is in the lower octaves.

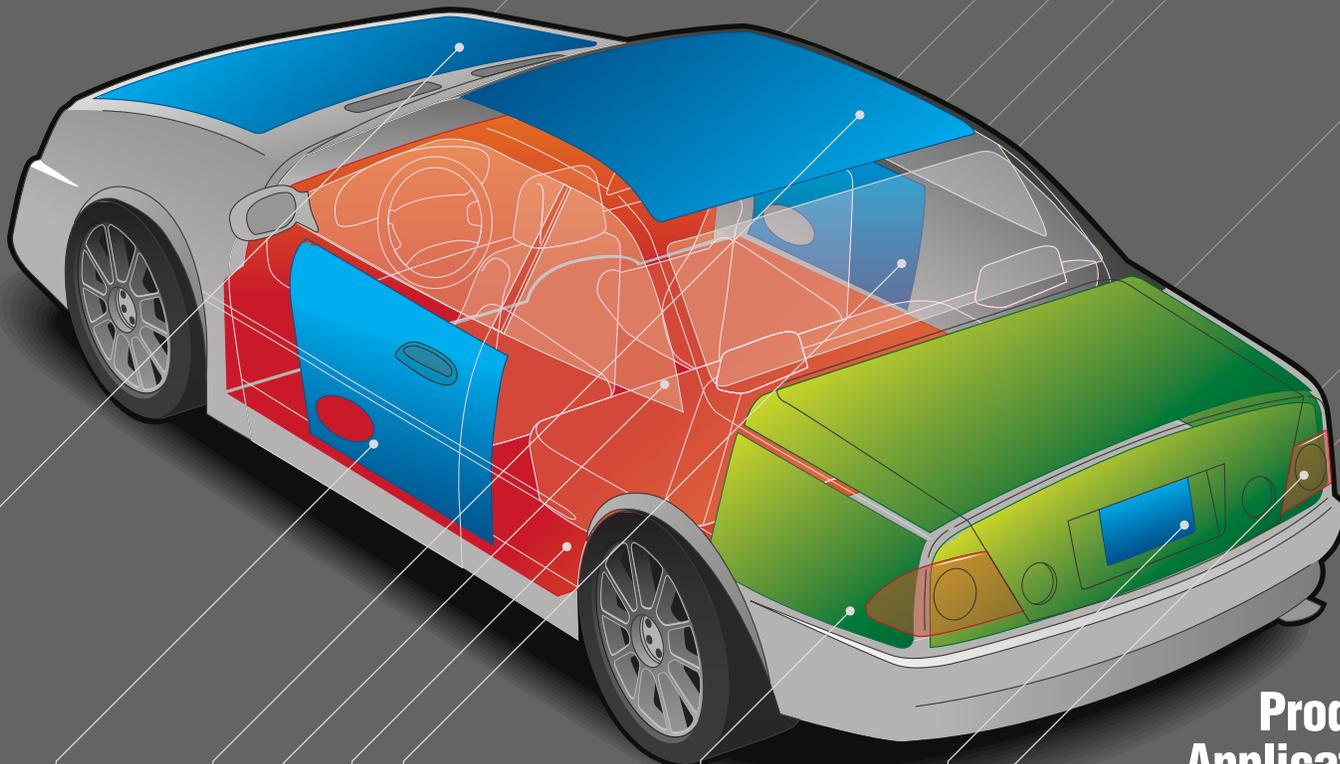
With volume controls for each output jack, either of our two crossovers allows a BaM-235 to excel at reproducing the upper half of the audio spectrum. The TC-2R controls volume for subwoofer and two high frequency channels, and the TC-4R offers two additional high frequency channels.

<p>Contact Information for Milbert:</p> <hr/> <p>Phone: 1-301-963-9355</p> <hr/> <p>Website: www.milbert.com</p>

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VB2HD | PLASTIC & SHEET METAL BODY PANELS | VAPOR BARRIER | FLOOR PAN |

GATORSKIN | FLOOR PAN | TRUNK | DOORS |

DK1 | DOORS | TRIM PANELS |

VB1S | DOORS | TRUNK | FENDER WELLS | FRAME | UNDERCARRIAGE |

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Featured Cover | Vehicle

"Play Dime" Chevy S-10

Among the most honored axioms of youth are two words that inspire visions of wide open highway and the promise of adventure around every corner – "Road Trip!" MBRPinc president Martin Barkey knows that "getting there" is half the fun. Whether an escape to sun-soaked Daytona Beach, an ATV-excursion in the Pennsylvania foothills or a lost weekend on the Las Vegas strip; it's the journey that counts. With a 2003 Chevrolet S-10 direct from the **General Motors** "image" vehicle program, Barkey set out, with help from some friends, to build the ultimate road trip pickup.

MBRPinc first fit the sporty Chevy with its own 2.5" dual stainless steel performance exhaust system. To get the truck looking as good as it sounded, Barkey turned to **House of Kolor** for some head-turning hues. Mike Blakely at **Bracebridge Collision** laid down a two-tone Trublue Pearl and Ultra Orange Pearl paint scheme; replicated on the truck's dash and interior trim. **Ron Gibbs** finished off the eye-catching exterior with pin striping and air brush touches.

Ground clearance came courtesy of **Superlift Suspension Systems**, who stepped up (literally) with a 2.5" suspension and 2" body lift kit. To support the Chevy's new stance, Barkey selected bold 17" EVO Renegade™ **Weld Racing** wheels wrapped in 33/12.50R17 Radial Mud Terrain™ **Pro Competition** tires. **Street Scene Equipment** came onboard with a front bumper cover and stainless steel grille while **Bushwacker Inc.** supplied beefy new fender flares. **APC** taillights helped complete the assertive outward appearance.



It's well known that any good road trip needs a good soundtrack. Not to worry, because in-truck entertainment is this S-10's specialty, thanks to **Harman Mobile Systems** and **NESA Vision**. Moe Sabourin of **Progressive Car Audio** was enlisted to build custom fiberglass enclosures to house the **JBL P650** component speakers, GTO series 12-inch subwoofers and a **BPX-1100** monoblock amplifier, all fed by a **Harman Kardon** Traffic Pro CD-player and navigation head unit. Supplying extra juice to the system is an **Optima Yellow-Top™** battery. The truck's **NESA DVD5000** player and 7" widescreen and overhead monitors are particularly handy for killing long stretches of asphalt with the latest hit movie; just kick-back in **Corbeau VX2000** seats and add popcorn (sorry, popper purchased separately). And if you happen to dump your soda, clean up is a breeze, thanks to billet aluminum **LaZer™** Floor Shields from **Owens Products**.

No matter where the road takes you, taking all the right gear is essential. With a **Con-Ferr Inc.** roof rack, the S-10 carries plenty of cargo, or tows a trailer when needed, thanks to a **Valley Industries** hitch and electronic brake



controller. MBRPinc's own Dave and Donnie even went to work on the Chevy to install a set of in-bed **Ready Ramp** aluminum ramps that fall into place at the pull of a pin, making it easy to haul an ATV along!

And if such an off-road excursion should find the S-10 in a sticky situation, it's nothing the **Superwinch Inc.** S9000 winch can't remedy. Conquering those dark wooded trails is no problem to begin with, thanks to five **KC HiLITES** Titanium Daylighters™ strung across a custom MBRPinc top light bar and four Titanium SlimLites™ adorning the tube-style front bumper bars; also fabricated by MBRPinc.

Proving there's plenty of "go" with the "show", a peek under the GTO-Style Good Hood™ from **Keystone Restyling Products** reveals an **AEM** cold air intake paired with a mass air flow sensor from **Granatelli Motorsports, Inc.**, while a **JET** Power Control Module and performance thermostat kick-out extra horsepower and torque. For big boosts, a quick shot via **Nitrous Express** does the trick while **Stainless Steel Brakes** ensure the Chevy can stop as quickly as it starts. Monitoring the truck's performance are **Auto Meter C2™** series gauges.



Needing only a few finishing touches, Barkey turned to **Zoops Products, Inc.** who stepped up with a set of flashy billet aluminum wiper arms, then called **Trenz** who kicked in a billet aluminum rear view mirror, antenna and door sills.

Finally, to be sure the S-10 was fit for a night of cruising and clubbing, **PlasmaGlow Neon** got things glowing inside with blue and yellow LED GloStix™ and neon MiniStix™. Outside, this S-dime shines with Plasma Xenon™ blue headlights and a 7-color LED Under-Car kit for reflecting any mood it likes.

After its debut at the 2003 SEMA Show in Las Vegas, the S-10 set out in search of new shows and events. This summer, keep an eye out for the MBRPinc.'s ultimate road trip truck on your own open road adventures!

Contributors and Sources

Name	Phone	Web Page
Chevrolet (GMC)	800.222.1020	www.chevrolet.com, www.gmc.com
MBRPinc	888.636.7223	www.mbrp.com
Harman Mobile Systems	800.336.4525	www.jbl.com, www.hktrafficpro.com
NESA Vision	562.789.9250	www.nesavision.com
Superlift Suspension Systems	800.551.4955	www.superlift.com
Weld Racing Inc.	816.421.8040	www.weldracing.com
Pro Competition Tires	866.232.0665	www.procomptires.com
Stainless Steel Brakes Corporation	800.448.7722	www.ssbrakes.com
JET Performance Products	800.535.1161	www.jetchip.com
AEM	310.484.2322	www.aempower.com
Auto Meter	815.895.8141	www.autometer.com
KC HiLITES Inc.	800.528.0950	www.kchilites.com
House of Kolor	601.798.4731	www.houseofkolor.com
Corbeau	801.255.3737	www.corbeau.com
Keystone Restyling Products	419.539.7120	www.keystonerestyling.com
Granatelli Motorsports Inc.	805.486.6644	www.granatellimotorsports.com
Trenz	661.393.0909	www.trenz.com
Street Scene Equipment	888.477.0707	www.streetsceneeq.com
Superwinch Inc.	860.928.7787	www.superwinch.com
Valley Industries	209.368.8881	www.valleyindustries.com
Bushwacker Inc.	503.283.4335	www.bushwacker.com
Con-Ferr Inc.	818.848.6993	www.con-ferr.com
Nitrous Express	940.767.7694	www.nitrousexpress.com
APC	800.594.4272	www.4apc.net
PlasmaGlow Neon	877.878.GLOW	www.plasmaglow.com
Zoops Products Inc.	909.922.2396	www.zoops.com
Owens Products	800.726.9367	www.owens-pro.com
Optima Batteries Inc.	303.340.7400	www.optimabatteries.com
Ready Ramp	800.549.4620	www.readyramp.com
Progressive Car Audio	705.788.1258	
Bracebridge Collision	705.645.7232	http://www.vmusikoka.com/Boatworks.htm
Ron Gibbs	905.336.1521	www.cdnratfink.com

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Lightforce Strikers



Lightforce, a company based in Australia, sells off-road driving lights bred in the harsh Australian outback that are outstanding in both durability and light intensity. Among the many models that Lightforce offers, including HID lamps with fully integrated ballasts, the 170 Striker lights offer the versatility of a hand-focusing system that allows you to choose between a wide angle or spotlight style beam with a twist of the housing. The light housing also features Lexan and shatter-proof composite construction, which makes them ideal for off road play or competition, plus gives you a break on weight at only 24 ounces each.

For this install we are using a set of two Striker 170 lamp housings that come with bulbs and pre-installed mounting hardware. As for wiring, we have opted for the Lightforce Relay Kit, which comes with a somewhat plug and play wiring harness that is easy to install. All you'll really *need* is a pair of wire strippers and some electrical tape, as well as some wrenches to attach the lights, but you may also need some power tools to make room for wires or to cut a hole for the switch. As with any project, make sure that you disconnect your battery before you do any work on your electrical system!



Step 1- Mount the light housings on your vehicle. Make sure that you are aware of your lighting needs when you choose a spot, especially if you are drilling holes to mount them. If you need a wide forward angle, mount them in a high place, such as your roll bar or on top of your cab. If you need a boost in the distance that you can see in front of you, mount them low, on your bumper or crash guard. This will make the lights more susceptible to rocks and debris, but this is not really a concern due to the shatter-proof Lexan lens of the lights.



Step 2- Once your lights are physically mounted to your vehicle, find a spot close to your battery to mount the relay for the lights. If you use self-tapping metal screws, you won't need to drill any holes. Make sure the relay is accessible to your hands, as you will have to plug it into the wiring harness later.



Step 3- Attach the wiring harness to the relay and get ready to pull wires. You should already have your lights mounted, so run the pair of Black and Red power wires out to wherever your lights are mounted. You can use a permanent connection by soldering or twisting the wires together and wrapping them in duct tape, or you can use a quick disconnect adapter in case you need to swap them around later.



Step 4- Decide where you want to put the switch for your lights. Run the Blue wire off of the wiring harness to the Black wire on the switch. The Red wire can be run to any 12 Volt Positive source in your vehicle, since it's only being used as a signal wire, not a power draw. The switch will light up when it is switched to the "on" position.



Step 5- The switch included with the wiring kit is an inline switch, which will just interrupt power to the relay, so you will have one wire to run to a 12 Volt Positive (+) source, and one to run back to the relay. Cut a hole in your dash by tracing the profile of the switch, or measuring the dimensions, then transferring the template to your dash. The switch just slides into place and locks itself down.



Step 6- Now that you have all the wiring done except for the battery, plug the wiring harness into the relay that you mounted near your battery. Connect the thick red wire that has the inline fuse holder directly to your battery's positive (+) terminal. This will carry the power that will operate your lights, so make sure you have a good, tight connection. The only wire left should be a short, black ground wire that can be grounded to either your battery or any part of your frame that is grounded to your electrical system.

Contact Information for Lightforce:

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info@lightforce.com



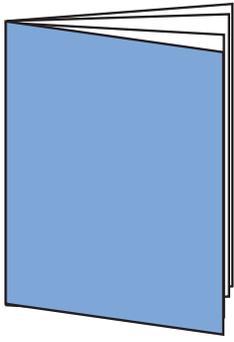
MotorCycle / ATV LED LIGHTING KIT



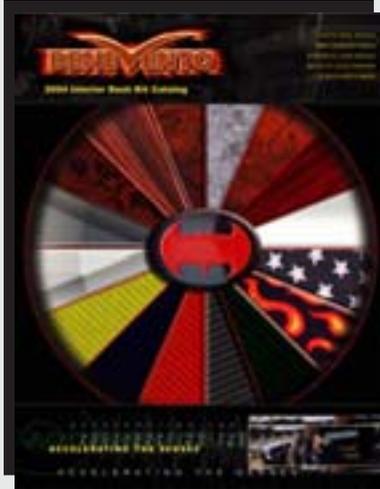
PlasmaGlow has brought the awesome glow of underbody lighting where it's never been before-your motorcycle or ATV! This Kit includes six patented LED Light Domes that diffuse light and protect the LEDs with unbreakable Lexan construction. Only PlasmaGlow has this patented technology to spread the glow out to the maximum area in light spaces. Also included are 4 Extreme LED's to accent your chrome, air intake and other areas to make your glow one of a kind! Kit includes Lifetime Warranty and all of the mounting hardware you need to install it.

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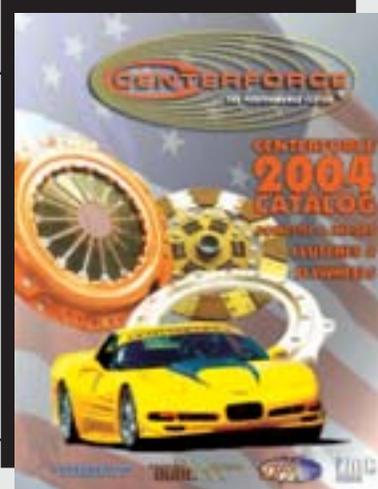
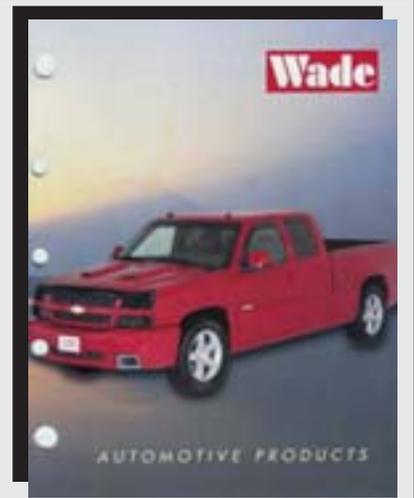
Accelerate your senses with **Beneventos** new comprehensive interior dash finishes flyer. This image-rich flyer appeals to everyone from the classic hot rodder to the Fast & Furious Crowd. Each page is filled with printed samples, textures and finishes. Our project vehicle, the Bat Cruiser, is highlighted here and features a custom interrihted here and features a one-off interies different carbon fiber materials by inlaying custom shapes and logos into do Accelerate your finishes package that integrates different carbon fiber materials by inlaying custom shapes and logos into door panels, dash pieces, and stereo surrounds.

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Wade Automotive Products' latest catalog features a full line of restyling accessories for both foreign and domestic vehicles. Wades' catalog features its new line of In-Channel Wind Deflectors, new "OE" bugshields, new Hood Scoops and its complete line of ABS BEDCAPS. It also includes our full line of headlight, tail light covers and tape on Wind Deflectors. Remember: If it doesn't say WADE on it; it was probably made by someone else.



Centerforce® added dozens of new applications to their new 2004 catalog which is available now. New for this year are popular models such as the STi, Lancer Evolution, 350Z and more! The catalog also includes Centerforce's all-new alignment tools along with part numbers for all available product lines.

Kelderman Manufacturing, Inc. was founded by Gary Kelderman in 1970. Kelderman Manufacturing, Inc. is operated by his son, Jeff. Known throughout the agricultural industry as one of the leading inventors of hay equipment, planter fold kits and rubber track systems for tractors and combines, Gary holds over 25 patents. In 1990, Gary built the first Kelderman air ride system for his '90 W-350 Dodge Cummins. Since Gary has a "tender" back, he wanted a smoother ride for his truck, hence the Kelderman Air Ride came to be.



This catalog, the most comprehensive by far, covers the full line of automotive electrical systems for Street Rods, Custom Cars and trucks. **American Autowire/Factory Fit** is well known for their innovative design and state-of-the-art technology used in all their products, kits and components. The full product line is now available at your fingertips.



Mountain Top Industries announces the release of the new clamp-on side latch mounting system for their tonneau covers. Yes the change has been made. Now 90% of all our applications require no drilling. Customers as well as installers actually enjoy the ease of installing the new system. Install times are 30 minutes or less. The cover still has the same durability holding 220 lbs of cargo on top, still easy to remove and reinstall in less than one minute without the use of tools, and still has eight different styles to choose from for on truck. Only now it

clamps-on and has side a new redesigned side latching system. This is why the Mountain Top tonneau covers are simply becoming one of the best tonneau covers on the market.



Bruce Lauper was promoted to Senior Vice President & Chief Operating Officer of **Roland DGA Corporation**. He was previously Roland's Vice President of Finance/CFO. "Bruce has been with Roland DGA for four years and has been instrumental in improving the company's profitability," said Bob Curtis, Roland DGA President & CEO. Lauper completed his Master of Business Administration in 2003.

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Visit Centerforce online and check out dozens of new applications added to their new 2004 catalog! New for this year are popular models such as the STi, Lancer Evolution, 350Z and more! Their website also includes links to sponsored vehicles and upcoming Centerforce events.



Kelderman Manufacturing

www.kelderman.com

The improved web site with an all new domain name offers plentiful full color, very clear photos of Kelderman's full product line, particularly its front and rear Air Ride suspension systems designed for late model Ford, Dodge and Chevy light trucks and trailers. Under the chassis photos clearly show Kelderman's unique four link systems and the quality engineering behind each system.



Cascade Audio Engineering

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Cascade Audio Engineering is in the business of developing innovative acoustic control products for both the mobile and home audio industries. Cascade Audio Engineering offers state of the art solutions to all of your noise and vibration problems. From viscoelastic polymer vibration dampers to composite low frequency barrier materials, CAE has a product that can handle your worst noise nightmare.



Mustang Dynamometer

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Mustang Dynamometer builds the industry's most accurate performance dynos. Mustang also offers dyno accessories such as wide-band oxygen sensors, optical RPM sensors and exhaust extraction systems. The Dyno Locator on our website helps you find a Mustang dyno locally and get your car tested and tuned with Mustang's certified performance.



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Perrycraft

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Perrycraft, Inc. has been manufacturing quality Roof Racks, Truck Bed Rails, Grab Handles, Sports Equipment Carriers and other products for the automotive aftermarket for over 20 years. We are pleased to provide the information contained on this website for the benefit of our existing customers and prospective customers, as well as the retail consumer.

Wade Automotive

www.wadeauto.com

Wade Automotive Products' latest catalog features a full line of restyling accessories for both foreign and domestic vehicles. Wades' catalog features its new line of In-Channel Wind Deflectors, new "OE" bugshields, new Hood Scoops and its complete line of ABS BEDCAPS. It also includes our full line of headlight, tail light covers and tape on Wind Deflectors. Remember: If it doesn't say WADE on it; it was probably made by someone else.

A photograph of a Milbert BaM235 Mobile Tube Amplifier. The device is black with a silver metal mesh grille on top. The front panel features several controls: a 'L speaker' section with three knobs labeled 'B', 'A', and 'C'; a 'line level inputs' section with 'L', 'gain', and 'R' knobs; and an 'R speaker' section with three knobs labeled 'G', '4', and '8'. A 'Warning: Observe polarity' label is visible near the speaker terminals. The Milbert logo and model name 'BaM235 Mobile Tube Amplifier' are printed on the front. The background is dark with a red neon light effect.

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