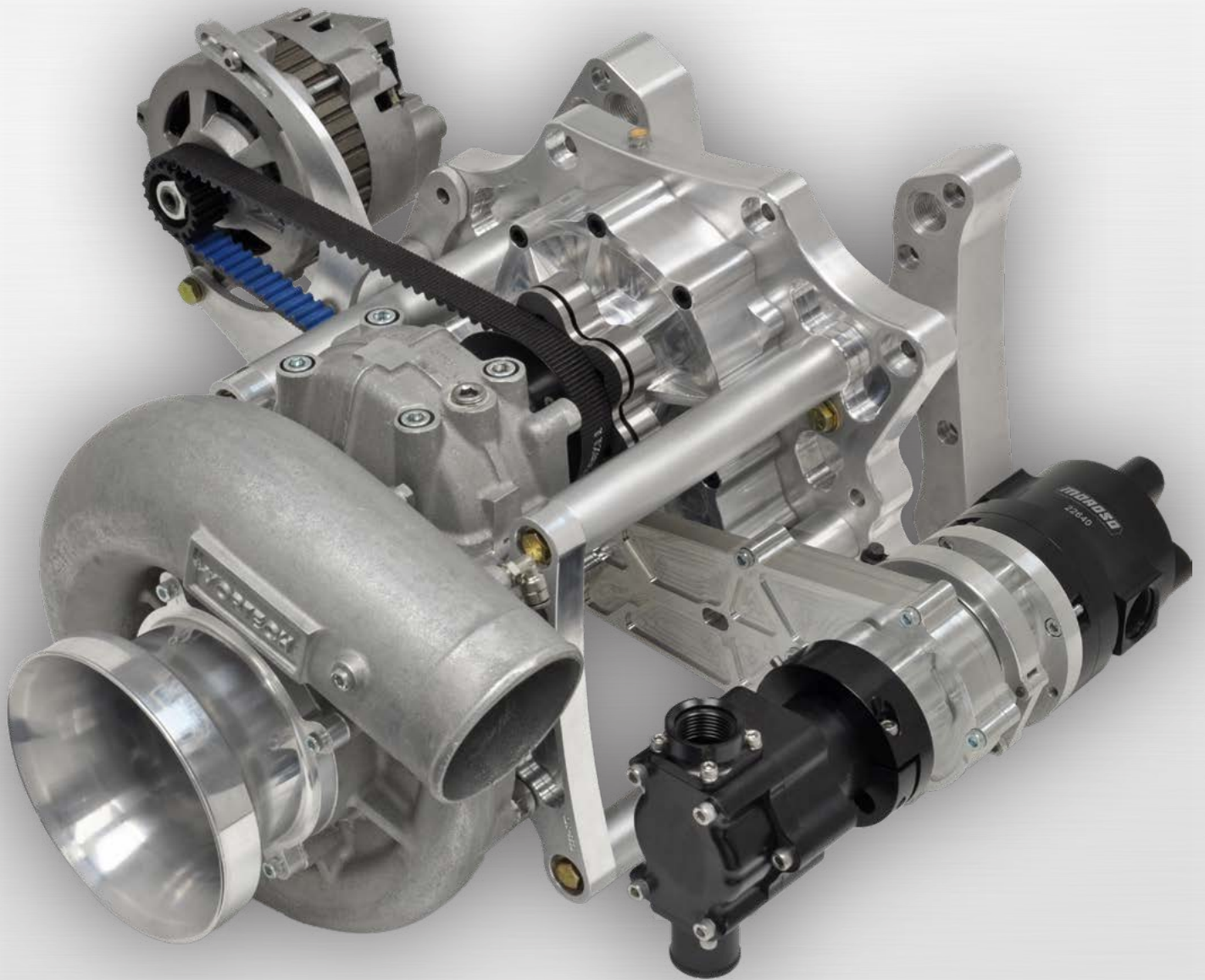




Supercharger and Accessory Drive Systems



CATALOG VOLUME 23

Letter to Customers

Dear Customers

I would like to take a moment to thank the thousands of you who have purchased products from me during my 35 years as a chassis components manufacturer. I am continually reminded by your letters, emails & car show visits that I have the best job in the world. I get to dream up magic stuff to modify your cars. Then, I get to build it in the coolest high-tech factory you can imagine.

Chassisworks remains committed to the development and manufacturing of components for your street and race chassis applications. Our investment in technology — both on the factory floor and in our business systems — has been critical to this company's continued success. No other chassis component supplier has made this size of commitment to utilize the very best equipment and processes for the design, testing and manufacturing of their products. This is why Chassisworks' designs are the most-copied. Because Chassisworks has the most-advanced automated factory, ours is the only company able to develop and produce state-of-the-art products made in America at competitive prices.

Our ability to continuously invent and refine products is made possible by our in-house research-and-development center. Chassisworks has a large scanning coordinate measuring machine to fully document the exact size of specific car components or complete vehicles to exactly determine the correct dimensions for any new retro fit component. The end result of this attention to detail is the legendary Chassisworks fit.

Because we actually install Chassisworks products on cars and trucks, we ensure that every part fits and works correctly before it's offered to you. Besides inspiring fresh ideas, this hands-on process ensures a constant refinement of existing components. It also gives Chassisworks the foresight to make our chassis and suspension products easier for the home builder to install.

Our ever-growing NoFab products, featuring the enormously successful line of bolt-on front clips and rear g-Bar™ have been expanded to include g-Street™ coilover-conversion front suspensions that are installed with ordinary hand tools — without welding. This is an example of how our technological advantage benefits our customers. Our newest additions to our product line have pushed the count of Chassisworks manufactured components to above 9,000. We provide more options and choices than anyone in the chassis business, period. Around here, "state-of-the-art" isn't just a sales slogan. Rather, it represents millions of dollars invested in high-technology equipment. It stands for the thousands of hours devoted to getting those 9,000 components right, the first time. It means we have gone above and beyond what the other guy has done to make our products more sophisticated and affordable.

Our VariShock line of shock absorbers is enormously popular and includes product applications for most American cars from 1955 to present including direct-fit adjustable struts. You may not even realize that you already have VariShock products on your car. A large portion of our production is sold to other companies to brand as their own. Designed and manufactured by us, VariShocks are the latest example of how Chassisworks constantly strives to develop revolutionary products — and why we lead the market in higher technology.

Our expanding road show visits over 50 venues each year. Check our web site schedule for the next event location near you, where you can get expert technical advice and see the Chassisworks products in person.

Because Chassisworks actually manufactures the majority of the parts on these pages, I'm proud to guide you on a pictorial tour of our state-of-the-art manufacturing facility. A much more detailed version of our shop tour is online.



Welcome to Chassisworks: The Home of Higher Technology.

Chris Alston



Table of Contents

Letter to Customers 2
 Table of Contents..... 3
 Chassisworks Shop Tour..... 4



CDS - Component Drive Systems..... 6



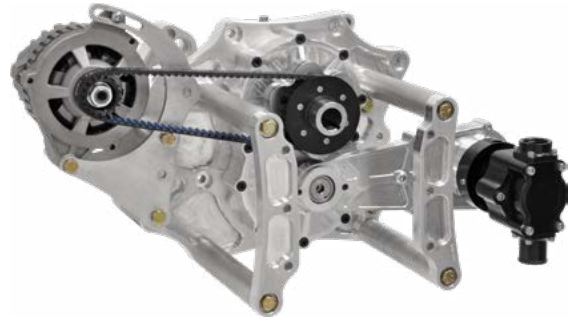
Single-Supercharger Gear Drive (Vertical)..... 7
 Single-Supercharger Gear Drive (Angled) 9



Dual-Supercharger Gear Drive 10



Single-Supercharger Belt Drive (Offset)..... 11



Accessory Mounts..... 12
 Accessory Reduction Drive..... 13
 Drive Accessories 13
 Accessory Line Drive 14
 Splined Adapter 14
 Accessory Tri-Drive 15
 Dry-Sump Pump Adapter 16
 Vacuum Pump Adapters..... 17
 Direct-Fit Accessories 17
 Distributor and Camshaft Bridge 18



Applications 18
 Terms and Conditions 19



Chassisworks Shop Tour

Let's start with how we design and develop new products. Chassisworks owns five complete engineering workstations. In 1997, we upgraded our engineering-and-design department to Pro Engineer. This is the same workstation-based software utilized by the aircraft industry and Big Three automakers. It enables us to create three-dimensional, digital assemblies of a complete product — in its environment. Then, we can “fly through” the model to verify its form, fit and function. Our investment in computer-aided design goes far beyond what is commonly referred to as “CAD.” What does this mean for Chassisworks customers? It means we can design a product, model it, and check all structural aspects of size, fit and usability — before we cut even one piece of material. This exotic software enables Chassisworks to bring you a more effectively designed product — with proven performance — more quickly and less expensively than ever before. Of course, each new product will still be rigorously tested in the “real world.” However, by that point, its performance is virtually guaranteed. With these sophisticated engineering workstations, we not only design a product that kicks butt; we can calculate the force behind it! There's no other way to absolutely assure consistent quality and parts performance.

Numerous Chassisworks parts are produced entirely on our Mazak flexible manufacturing cells. These incredible machines represent a quantum leap in technology from the old-style CNC lathes used by many manufacturers. Each machine is a combination of two lathes and two mills, with automatic material loading and parts unloading. Many products, such as rod ends and clevises, require both milling and lathe work. By combining both functions within a single machine and adding automatic material loading, the cycle time necessary to produce a part is greatly reduced. This allows us to offer a higher-quality part at the same or lower price as our competitors.



◀ Many people have wondered how a component as complex as our FAB9 rearend housing can be priced so affordably. The “secret” is sophisticated manufacturing equipment such as this Amada Apellio combination of laser and hydraulic forming, complete with sheet loader.

▶ All Chassisworks bent-tube products are created on one of two computer-controlled, mandrel tube benders. These machines utilize the latest technology in pressure die boost and assist, which pushes more material into the outer radius of the bend to greatly minimize tube thinning. Our mandrel-bent rails are the finest in the industry because of these machines and the specially designed tooling that we have developed. (Chris Alston pioneered mandrel-bent frame rails for drag racing, and has made a huge investment in their successful production.)





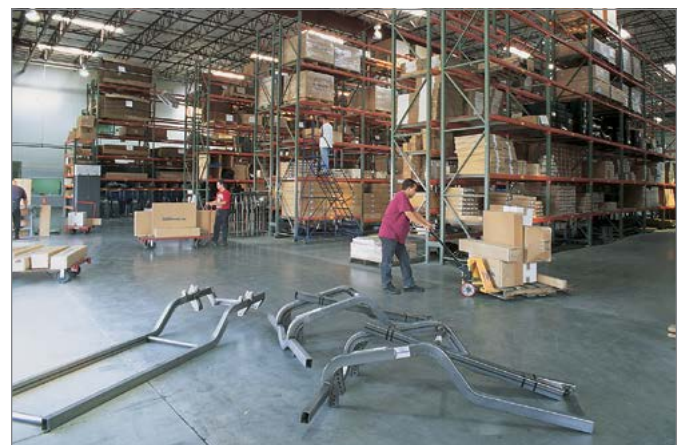
◀ This hybrid-style laser cuts accurately enough to produce quality bolt holes, unlike prior-generation machines. The laser cutter takes its drawings directly from our software and positions them on the raw sheet to utilize 95 percent of the raw material. Moreover, our vacuum loader enables this machine to be loaded and unloaded with minimal down time. Again, we pride ourselves on providing Chassisworks customers with the highest-quality parts at the lowest-possible prices.

▶ We also manufacture parts on a Mazak Pallatech machining center — the very first of these huge machines to be delivered in America. Its enormous work envelope enables us to manufacture more parts per cycle. With 12 tables and 160 different tools available, we can machine large numbers of parts with no setup time. (Its 50-horsepower, 15,000-rpm spindle really makes the chips fly!) This machine enables us to produce those high-quality, low-cost FAB9 housings.



◀ One of the best-known Chassisworks technical innovations is the FAB9 series. It accepts the same internal gears as a Ford 9-inch and provides a complete rearend housing for any vehicle. We developed this custom welding fixture, enabling us to attach all the brackets needed for your application and produce a custom rearend — in one day! Any of our rear suspensions and all of our accessories can be quickly added to the basic rearend assembly, based on the information provided in your order. At Chassisworks, we truly “make to order” — but with “off-the-shelf” pricing and delivery time.

▶ A high-density warehousing system that lets us stack finished parts 25 feet high enables Chassisworks to maintain the largest inventory in the industry. In fact, we ship 98 percent of all orders within 24 hours! Our specially designed packaging and custom-made boxes are engineered to package your order securely, in fewer containers — saving you shipping costs.

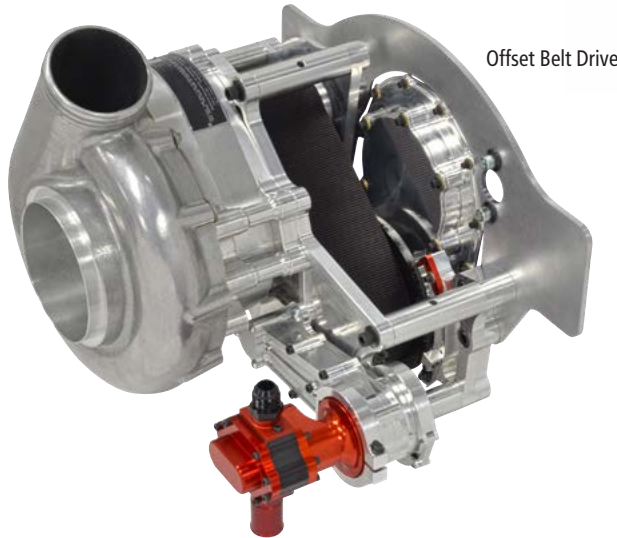
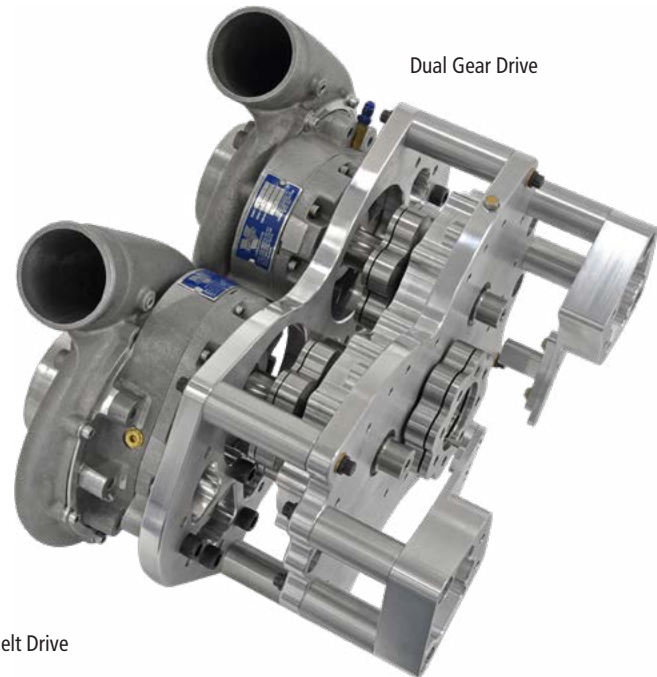
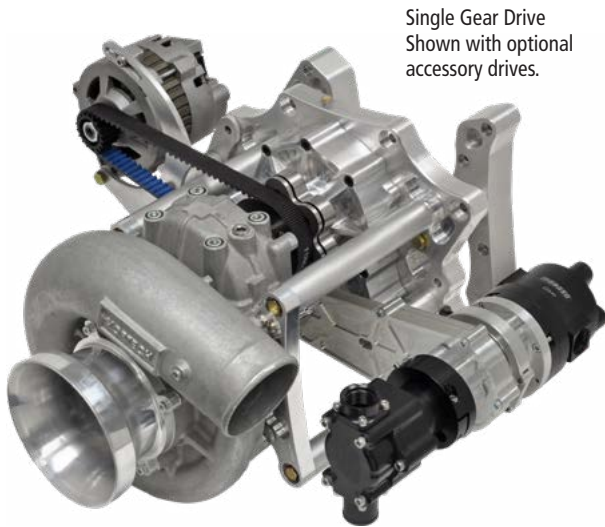


■ More detailed tour available at www.CAChassisworks.com



CDS - Component Drive Systems

■ Gear- and Belt-driven Drive Systems for Vortech, ProCharger, and Paxton Centrifugal Superchargers



CDS is a dealer for
ProCharger, Vortech, and Paxton
Call for package deals

■ Features

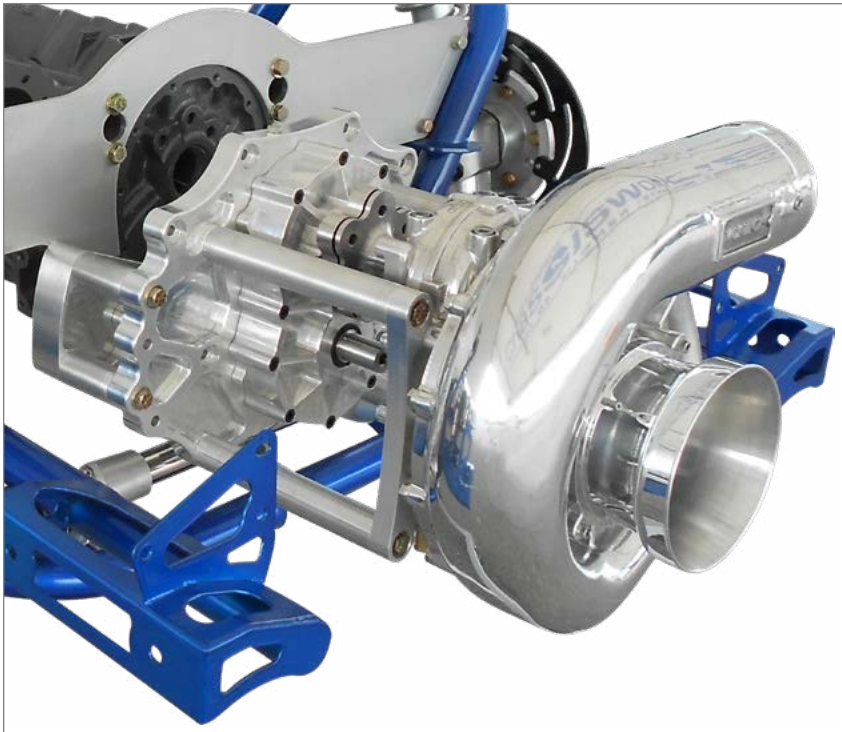
- Models available for most Vortech, ProCharger, and Paxton superchargers
- Broad selection of drive ratios
- Large 1-3/8" -wide quick change gear set
- Timing pointer, built-in
- Crank trigger pick-up mount, built-in
- Oil level sight glass
- Aluminum blower and crankshaft hubs (Optional high-strength, heat-treated stainless steel)
- Two-piece case with alignment pins
- Scalloped gear-box and mount plates to remove excess material
- Pocket-milled in low stress areas to reduce weight
- Multiple auxiliary shafts provided to drive additional accessories (crankshaft RPM and blower RPM shafts)
- Accessory drives optionally available (alternator, fuel pump, magneto, vacuum pump, distributors, water pump, power steering pump)

Drive Hub Bushings

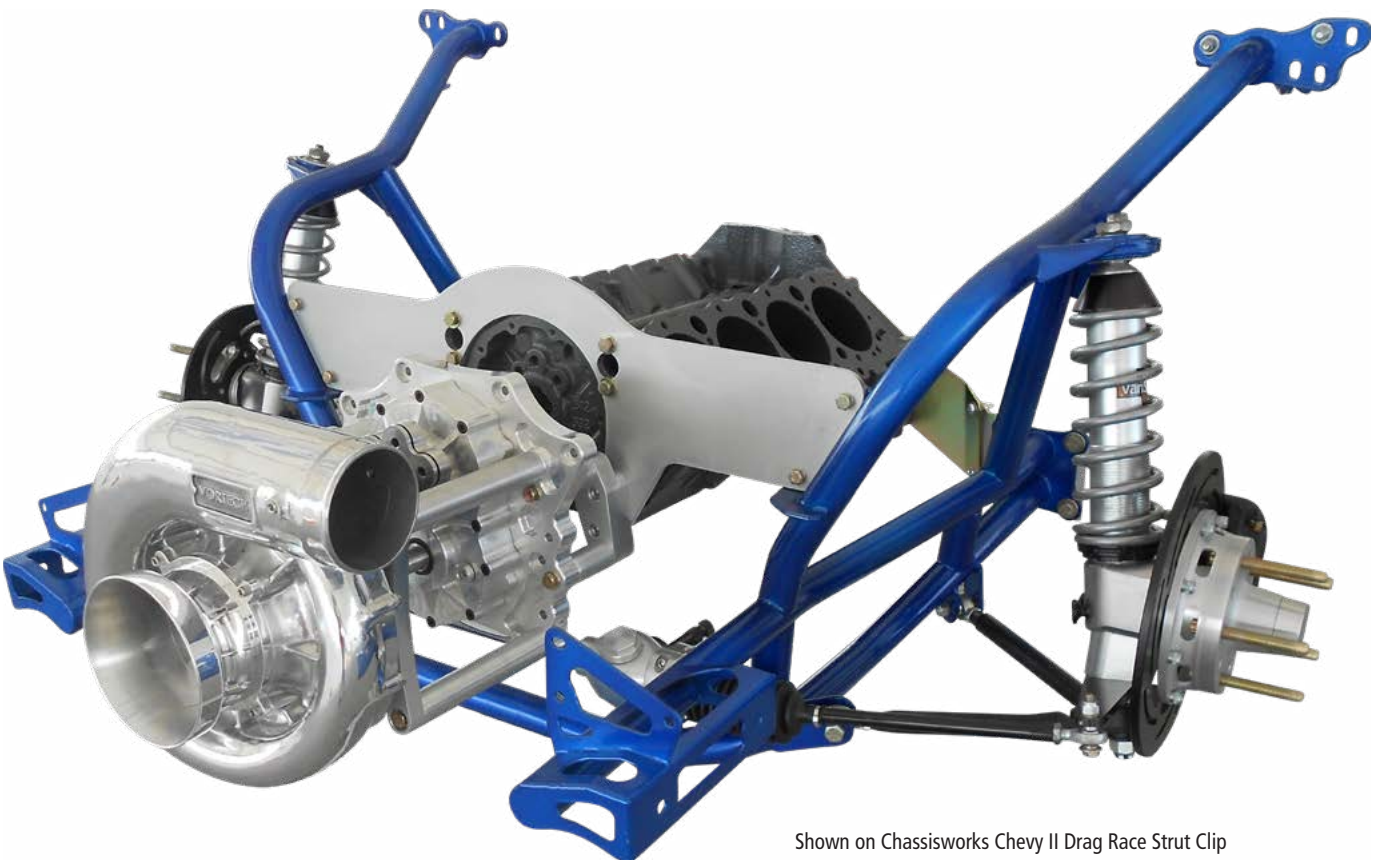
The drive hubs between the crankshaft, gear drive, and supercharger use high-density urethane coupler bushings (available in multiple durometers) to dampen harmonics and extend bearing life.



Single-Supercharger Gear Drive (Vertical)

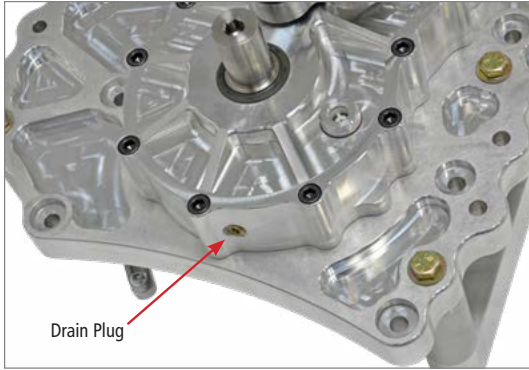


"I am the owner of the car that you guys just shipped a blower drive to Karls East Coast Speed in Rhode Island. I just want you to know I have never seen a better crafted product in my racing years. I look forward to continued business with Chris and company."

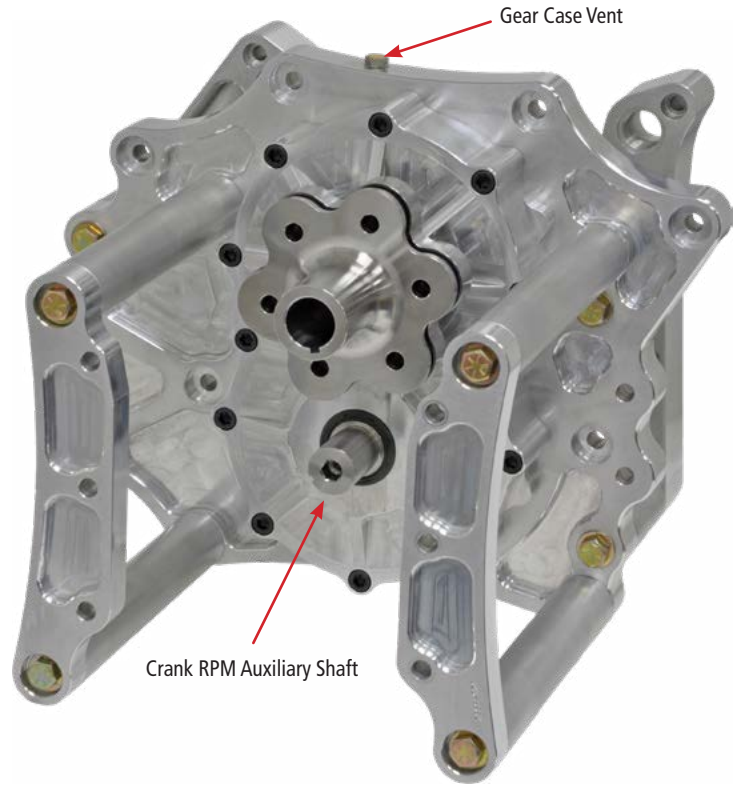
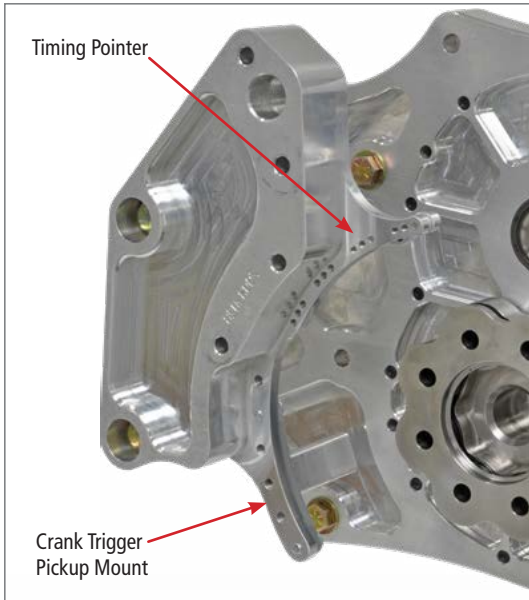


Shown on Chassisworks Chevy II Drag Race Strut Clip

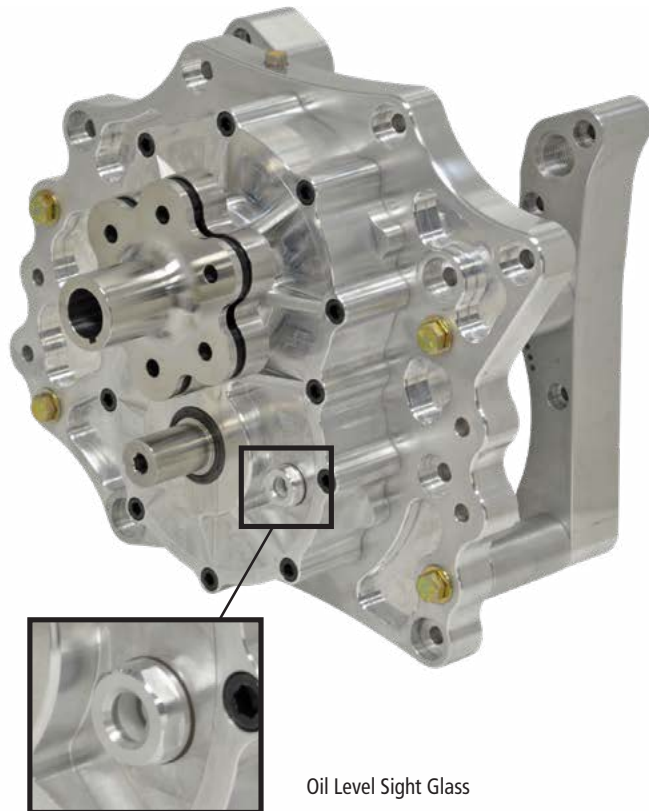
Single-Supercharger Gear Drive (Vertical)



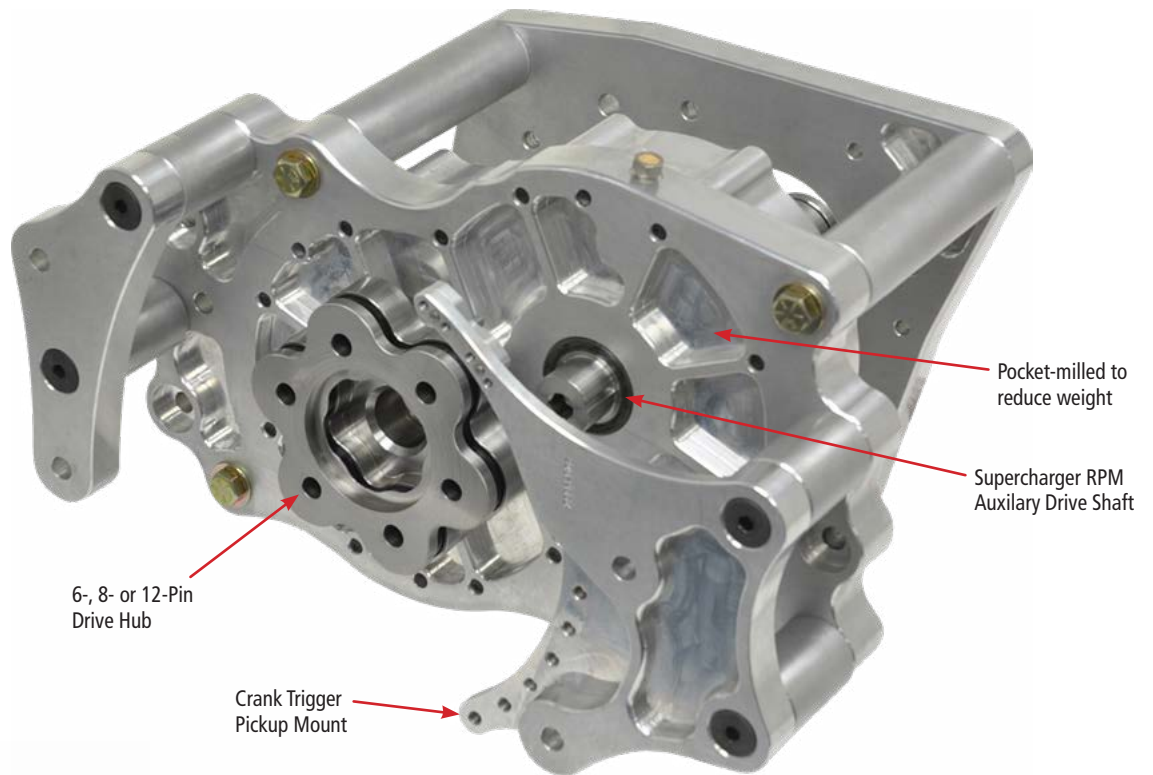
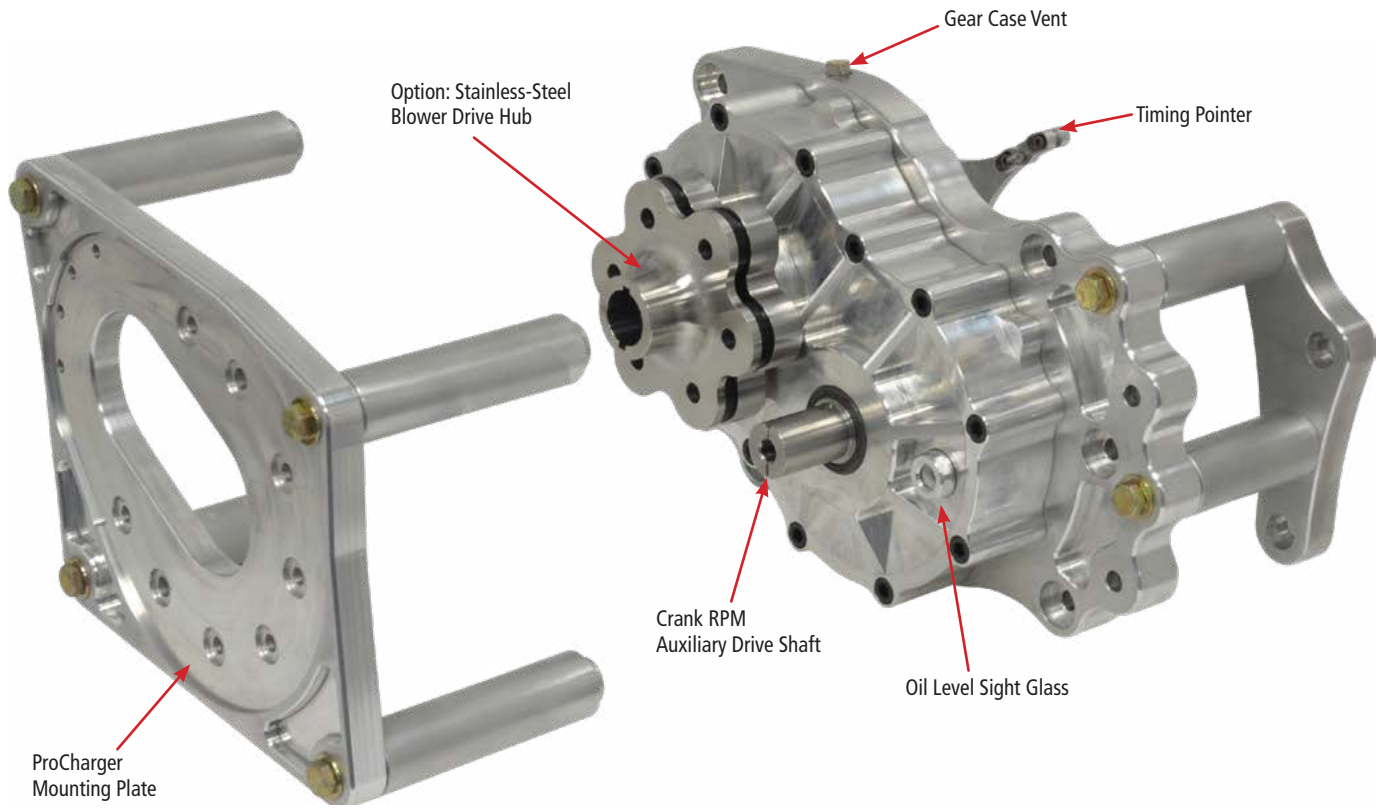
Gear-box and mount plates feature scalloped edges and pocket-milled faces to eliminate excess weight in low stress areas.



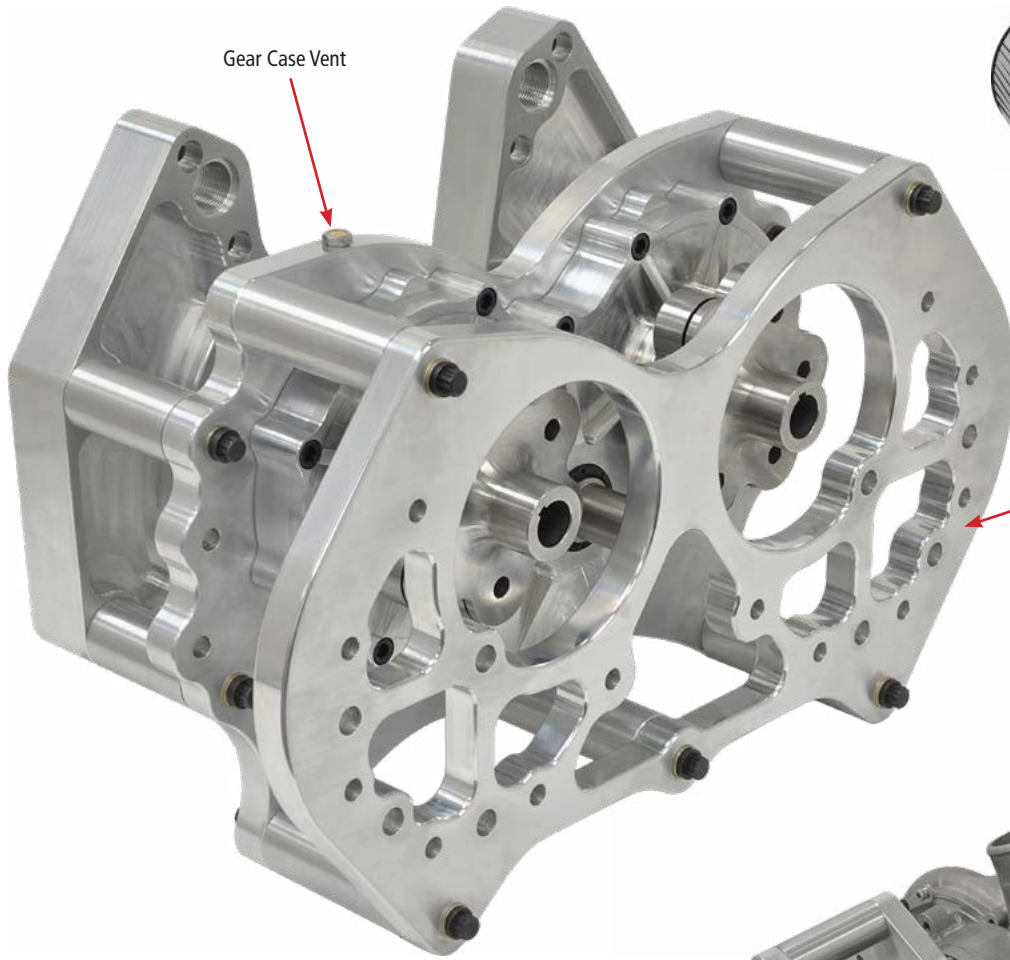
Vortech Supercharger Mount



Single-Supercharger Gear Drive (Angled)



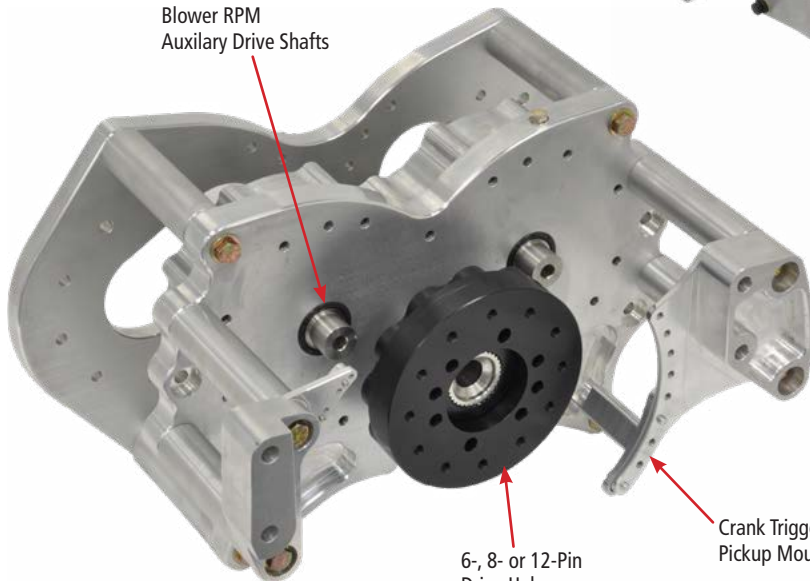
Dual-Supercharger Gear Drive



Dual Supercharger
Mounting Plate



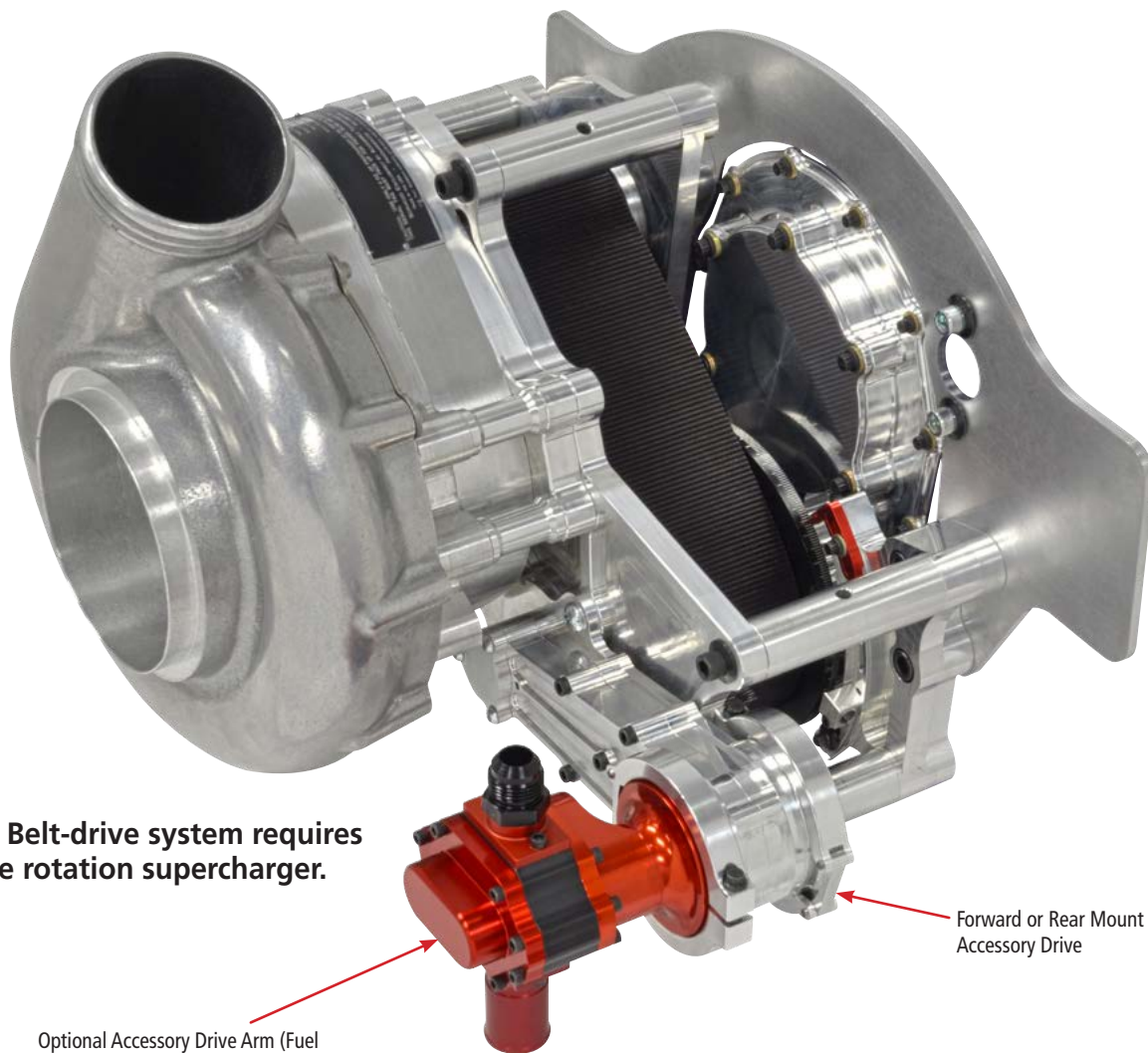
Blower RPM
Auxiliary Drive Shafts



6-, 8- or 12-Pin
Drive Hub

Crank Trigger
Pickup Mount

Single-Supercharger Belt Drive (Offset)



NOTE: Belt-drive system requires reverse rotation supercharger.

Optional Accessory Drive Arm (Fuel Pump, Magneto)

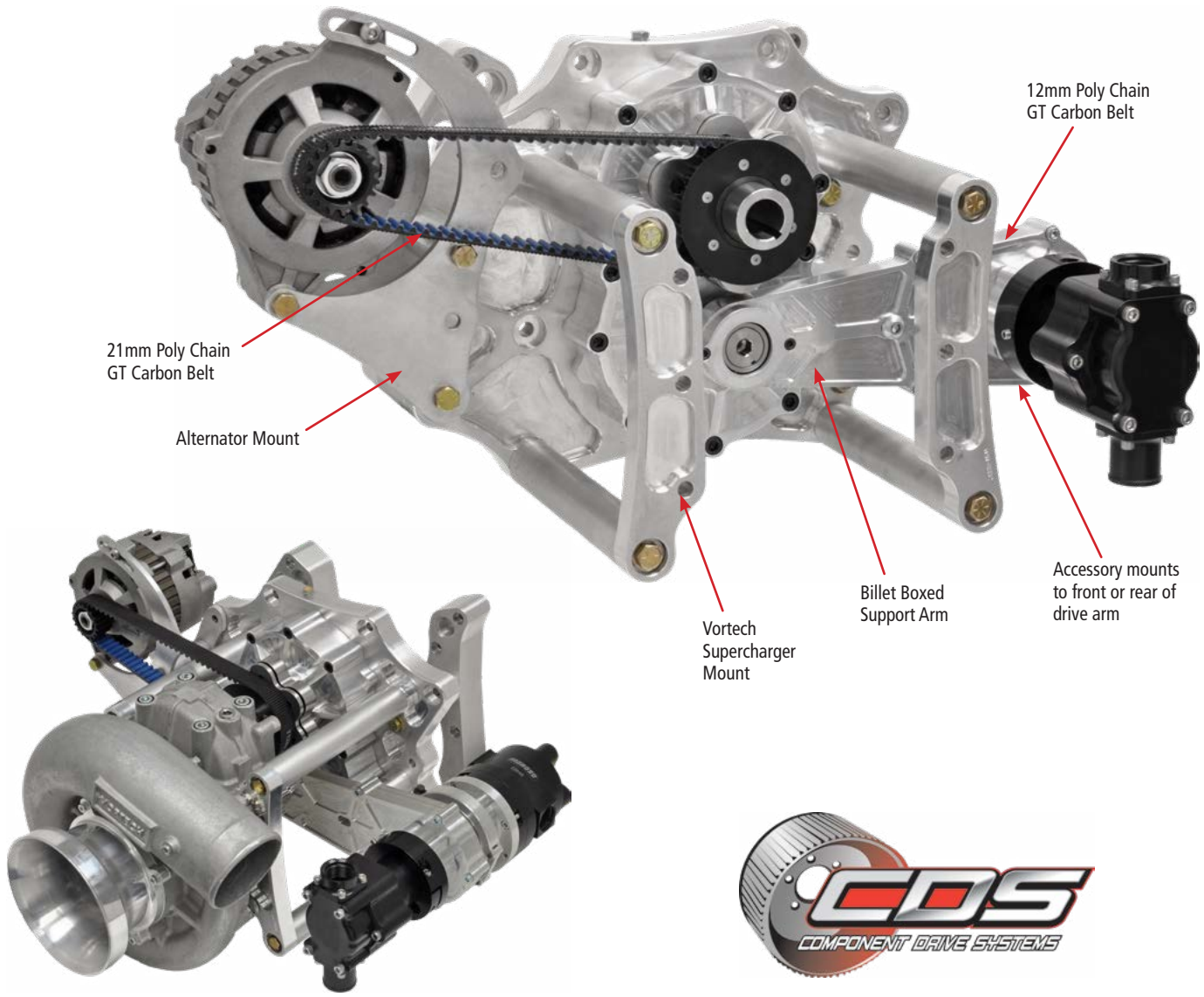
Forward or Rear Mount Accessory Drive



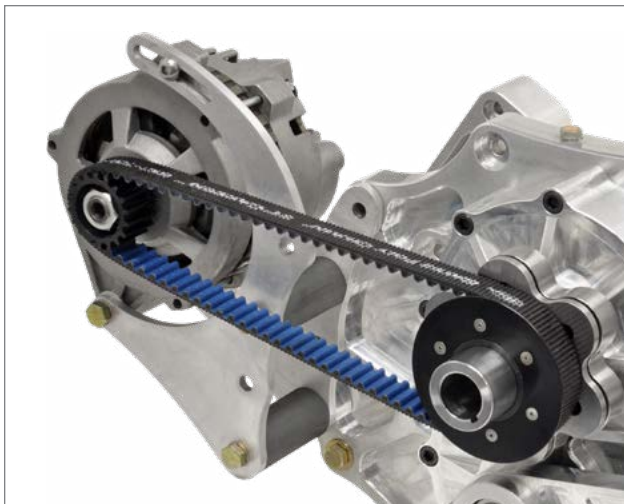
Belt Guard Installed



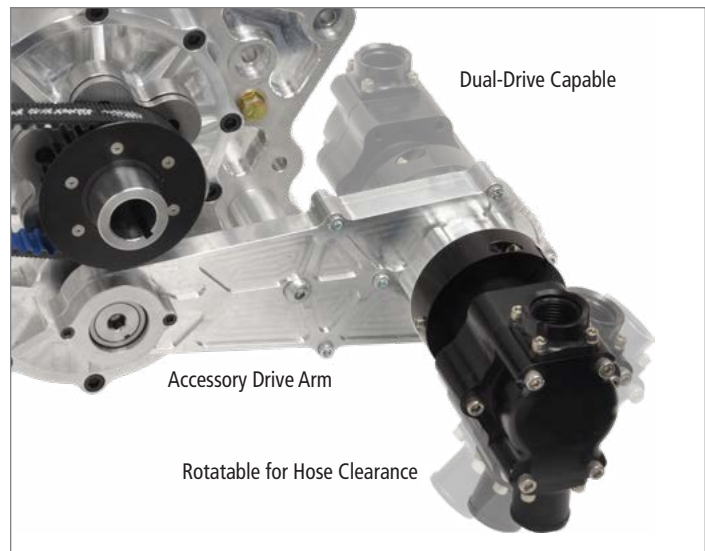
Accessory Mounts



■ Alternator Mount



■ Reduction Drive

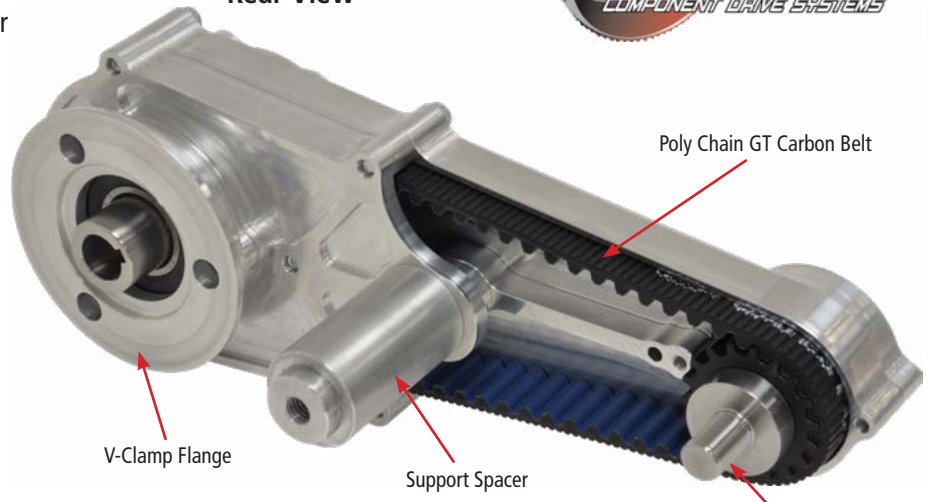


Accessory Reduction Drive

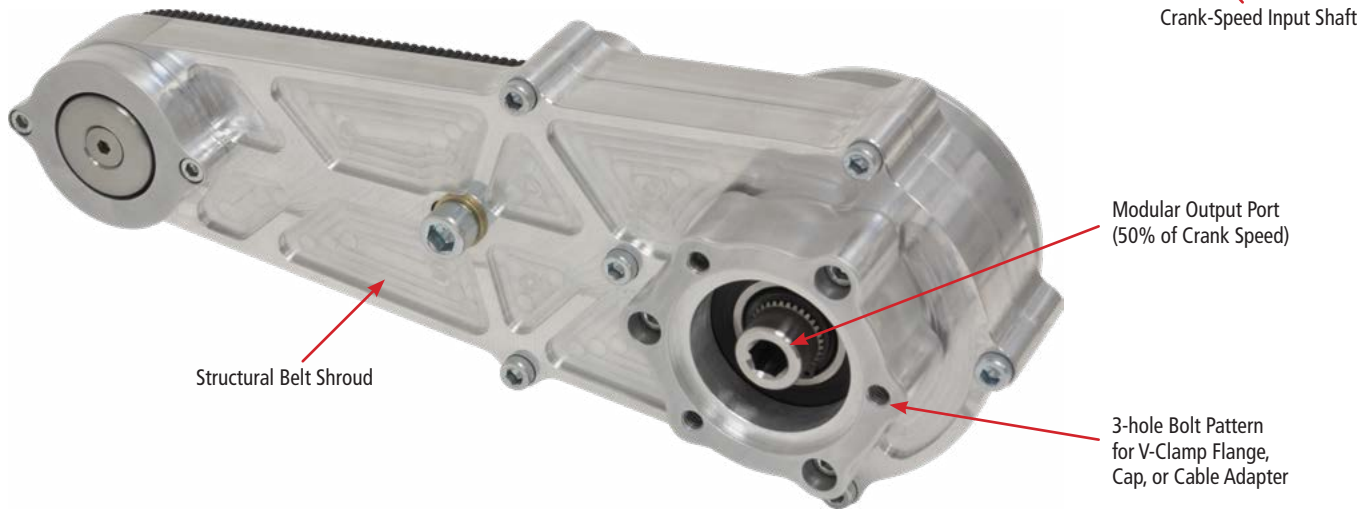
- 50% crank-speed reduction drive
- Driven off available output shaft of gear drive
- Adjustable-position support spacer
- Modular output port accepts V-clamp, Aeromotive-style clamp, cable-drive adapters, or drive cap when output port is unused
- Mount single or dual accessories off front or rear of drive



Rear View



Front View



Drive Accessories

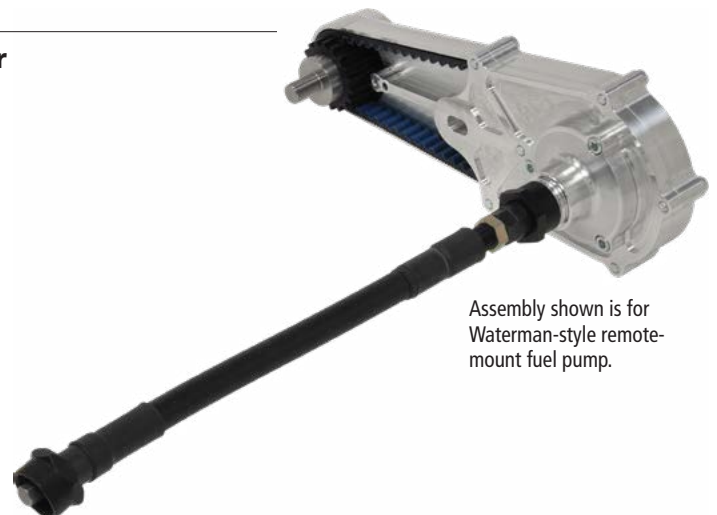
■ Drive Cap

Cap off the unused output port to keep bearings free of debris.



■ Cable Drive Adapter

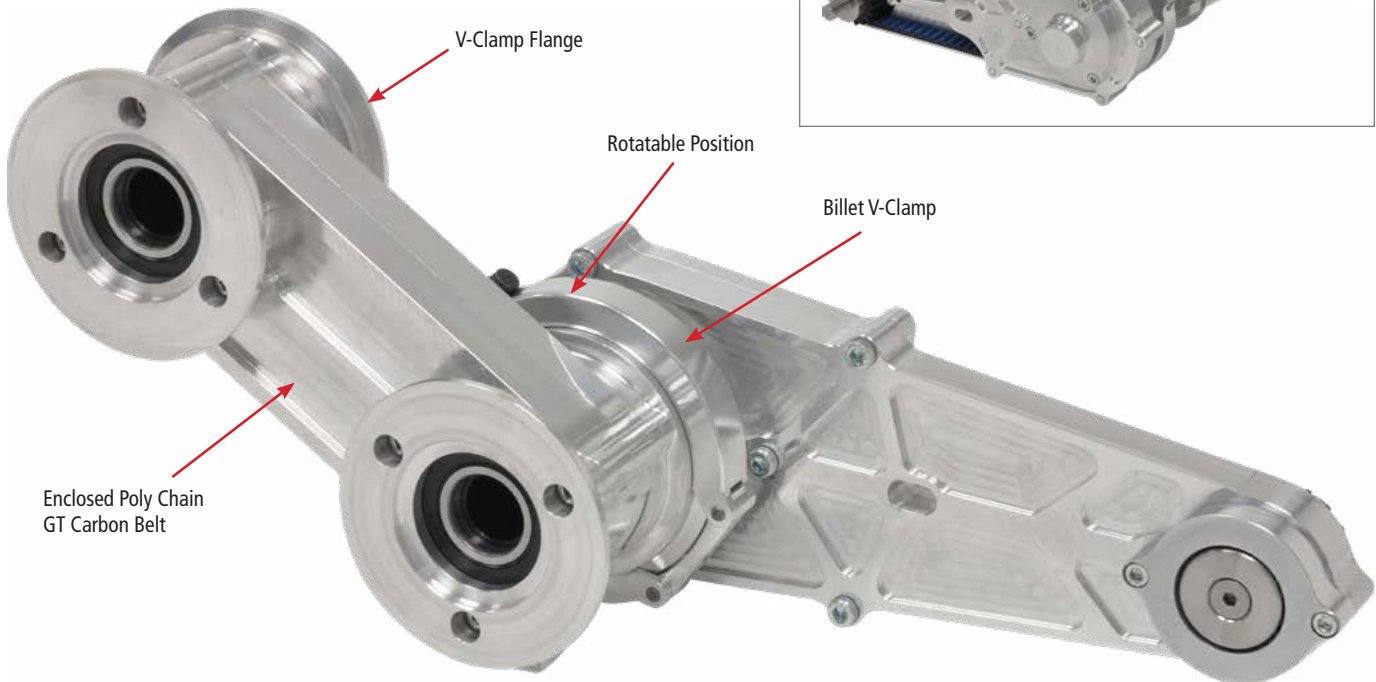
Easily drive accessories mounted remotely from the engine.



Assembly shown is for Waterman-style remote-mount fuel pump.

Accessory Line Drive

- Extends accessory mounting range
- Additional output ports
- Fully enclosed Poly Chain GT carbon belt
- Driven off available output shaft of reduction drive
- Versatile V-clamp mount allows rotation of line drive to raise or lower accessory branch
- Drive up to three accessories off front or rear output ports



Splined Adapter

- 5/8" -bore
- 3/16" or 1/8" key way
- 3/8" hex



Accessory Tri-Drive

- Adds ultimate accessory mounting flexibility
- Fully enclosed billet-aluminum case structure
- High-strength Poly Chain GT carbon belt
- 1:1 drive ratio from input shaft
(1/2-crank speed when driven off Reduction Drive)
- Versatile V-clamp mount allows rotation of Tri-Drive and individual accessories
- Drive accessories off front or rear outputs



Dry-Sump Pump Adapter

- Adapts Moroso door-car and dragster single-stage and dry sump pumps to V-clamp-style mount
- Rear support available features single stud to simple attachment to fabricated support bracket



Reduction drive shown with front mounted Aeromotive fuel pump and Moroso dry-sump pump



Rear Support Installed

■ Pump Adapter



■ Rear Support



Vacuum Pump Adapters

■ Star Mountain Motor Adapter



■ Moroso Adapter

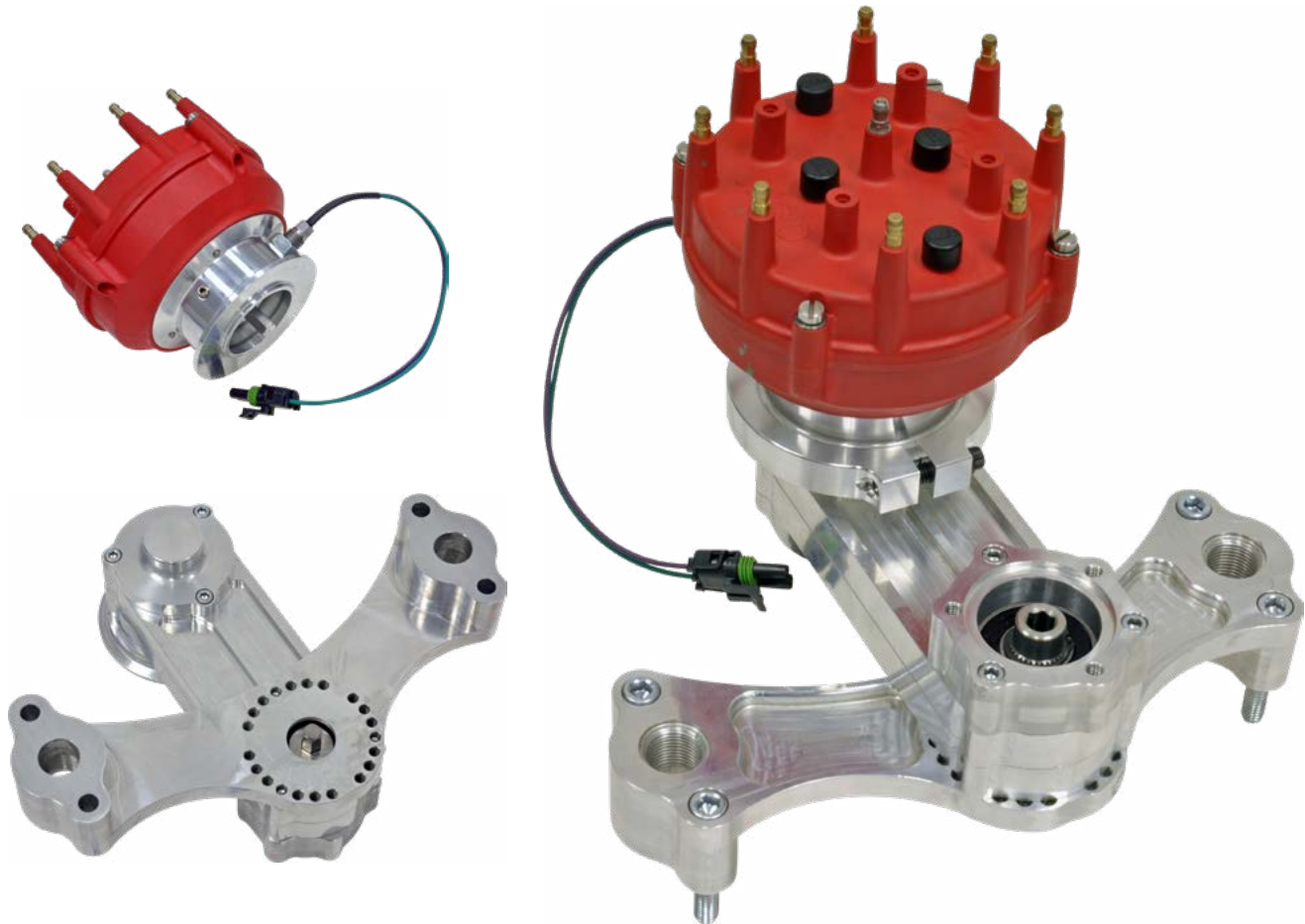


Direct-Fit Accessories

In addition to the various mounting styles that build off the output shafts or drive extensions, accessories can also be mounted directly to the gear-drive base. This example shows a Peterson oil-pump bolted off the driver side of our angled supercharger gear drive with belt cog running off the crank-speed shaft.



Distributor and Camshaft Bridge



Component Drive Systems



Engine Applications

MAKE	MODEL
CHEVROLET	SMALL BLOCK
	BIG BLOCK
	LS SERIES- STOCK, LSX, WAREAGLE. RHS AND DART BILLET BLOCKS
FORD	SMALL BLOCK
	BIG BLOCK 429-460
	MODULAR ENGINE 4.6 L & 5.4 L
PONTIAC	AFTERMARKET PONTIAC BLOCK
STUDEBAKER	289 V8
BAE	HEMI
MOPAR	SMALL BLOCK, BIG BLOCK
MBR	8.3 LITER HEMI

Gear and Accessory Drives

GEAR DRIVES	SINGLE-SUPERCHARGER GEAR DRIVE DUAL-SUPERCHARGER GEAR DRIVE
UPGRADE OPTIONS	HIGH-STRENGTH, STAINLESS-STEEL BLOWER HUB CRANK-TRIGGER HUB (6- OR 8-PIN) 12-PIN CRANK HUB 12-PIN CRANK HUB UPGRADE WITH TRIGGER
GEAR DRIVE ACCESSORIES	ALTERNATOR DRIVE (4 SPEED-UP RATIOS AVAILABLE) FUEL PUMP DRIVE (TYPE I)

BELT DRIVES	FORWARD MOUNT SUPERCHARGER BELT DRIVE
ACCESSORIES	50% ACCESSORY DRIVE REDUCTION

DRIVEN COMPONENTS	LINE DRIVE
	TRI-DRIVE
	DISTRIBUTOR WITH PRO CAP AND CAM SYNC
	ALTERNATOR ENCLOSED FLANGE DRIVE
	POWER STEERING PRO PUMP
	WATER PUMP
	MAGNETO DRIVE
	OFFSET MAGNETO DRIVE
	FUEL PUMPS (VARIOUS BRANDS)
	OIL PUMPS (VARIOUS BRANDS)

Terms and Conditions

■ ORDERING

Business Hours: We are open from 7:00 a.m. to 5:30 p.m. , Pacific Time, Monday through Friday, and 8:00 a.m. to 1:00 p.m. Saturday. Call (800) 722-2269 for ordering only; tech support by email only: tech@CACHassisworks.com. Our 24-hour fax number is (916) 388-0295.

Mail Orders: When submitting your order by mail, please provide the following information: name, billing address, shipping address, phone numbers, e-mail address, complete part numbers, quantities, and any special instructions.

Credit Card Orders: We accept Visa, MasterCard, Discover Card and American Express. Please have your credit card and the billing address available. In order to protect you and us from credit-card fraud, all credit-card orders must be shipped to the credit-card billing address or creditor authorized shipping address. Many credit card companies allow multiple shipping addresses. If necessary, you may need to call your Issuing Bank and establish your "ship-to" address. All freight charges will be added to your shipment (except for truck shipments). Customer is responsible for all costs due to refused or missed shipments.

Foreign Orders: All foreign orders must be fully prepaid (including freight) in U.S. funds. Required duties and taxes are not the responsibility of Chassisworks and must be paid by the customer to the appropriate parties.

■ SHIPPING

All of our roll bars, roll cages, chassis, and welded clips are shipped by LTL truck, freight collect. Most other shipments can be sent by a small-package carrier — ground service. Available air-delivery options include: next-day service, 2-day service, 3-day service, or deferred air service to Alaska , Hawaii & Puerto Rico (combination of air and ground). You must inform us if you want your shipment by air service. Additional shipping fees will be applied to your order.

Truck: All truck shipments must be 100-percent prepaid. The shipment will go collect for the freight charges only. When receiving freight via truck, it is the customer's responsibility to verify that he/she is receiving all parts listed on the bill of lading and that all parts received are in good condition. If you sign for something you do not receive, neither the freight company nor Chassisworks/KP Components/Total Control Products/VariShock will be responsible for replacing the item.

■ RETURNS AND CLAIMS

No claims or returns accepted after 30 days from date of invoice. We will only accept a return on a part that has not been modified, is still in its original package, and is in like-new condition. You will be charged a 25-percent restocking fee on any returned goods. And you will be issued a credit with us for the balance of the price you paid for the returned part. Before returning a part, you must call us. You will be given a "Return Authorization Number" (RA#), which you must write on the outside of the box being returned. A copy of the original invoice must be included. All shipping charges on return packages must be prepaid; we will not accept a C.O.D. If, upon examination, all parts are returned and all parts are in a like-new condition, a credit will be issued less the 25-percent restocking fee. No returns on special-order parts (including, but not limited to, axles, FAB9 housings, fiberglass, chassis, welded frames, any part made or ordered to customer specs, etc.). Springs are a tuning item and cannot be returned unless defective.

Back Orders: If any parts are back-ordered, they will be so noted on the invoice. Unless notified otherwise, we will ship the back-ordered parts as soon as they become available.

■ FREIGHT CLAIMS

All claims for damages, shortage, or loss must be made immediately with the carrier (i.e., UPS or the freight line). You must note any substantial damage to a package upon receipt of the shipment with the carrier. You may reorder any missing pieces from us. We will send you an invoice for the reordered parts, and you can use this invoice as proof to the carrier of replacement costs. Unfortunately, we cannot make these freight claims for you; however, if we can be of any assistance, please feel free to give us a call.

Missing Pieces: Although every effort is made to ensure that each part is packaged complete, inevitably, a component may be missing. You must check each kit as soon as you receive it against the parts list which is enclosed with each part. Any shortage must be reported immediately upon receipt of the product. Claims made after 10 days will not be honored.

■ WARRANTY NOTICE

There are NO WARRANTIES, either expressed or implied. Neither the seller nor manufacturer will be liable for any loss, damage or injury, either direct or indirect, arising from the use or inability to determine the appropriate use of any product. Before any attempt at installation, all drawings and/or instruction sheets should be completely reviewed to determine the suitability of the product for its intended use. In this connection, the user assumes all responsibility and risk. We reserve the right to change specification without notice. Further, Chris Alston's Chassisworks, Inc., makes NO GUARANTEE in reference to any specific class legality of any component. ALL PRODUCTS ARE INTENDED FOR RACING AND OFF-ROAD USE AND MAY NOT BE LEGALLY USED ON THE HIGHWAY. The products offered for sale are true race-car components and, in all cases, require some fabrication skill. NO PRODUCT OR SERVICE IS DESIGNED OR INTENDED TO PREVENT INJURY OR DEATH.

■ PRODUCT COLORS

Many of the items herein are colored for display purposes only. Your merchandise may arrive as bare metal, or in some finish other than that displayed in this catalog. Please read individual product descriptions for specifics on available finishes and/or discuss with your sales representative.

ALL PRICES ARE SUBJECT TO CHANGE.

Revised: 04/01/21

The most current version of our terms can be viewed at the Chassisworks website — www.CACHassisworks.com/cac_terms.html.

■ **Chassis-Builder Discounts!**

Yes, your shop could qualify for special Builder-Program pricing on popular Chassisworks, KP Components, Total Control, and VariShock products!

For details and price quotes, please contact

Nick Spinelli at (888) 388-0201, Ext. 233 or nspinelli@cachassisworks.com.

- Toll-Free Order Line: (800) 722-2269
- Customer Service and International: (916) 388-0288
- 24-Hour Fax: (916) 388-0295
- Tech Support: CDSinfo@CACHassisworks.com
- Website: www.CACHassisworks.com



■ Product information for each of the Chris Alston's Chassisworks brands is available through its respective Website:

www.CACHassisworks.com

www.KPcomponents.com

www.TotalControlProducts.com

www.VariShock.com

