# Jrange

# GET YOURS

## GET NOTICED, GET CONNECTED, GET STRANGE



**GOT STRANGE?** Well now you can look Strange with Strange apparel. Visit us at Strangeeng.net and gear up with one of our latest designs to show the world just how Strange you are.



Our founder, Bob Stange, was born and raised in Chicago and began his career almost 60 years ago. He got this start working in machine shops during the day and making suspension parts for him and his friends' drag cars in his mom's garage at night.

We weren't always Strange. A printing error in the 60's resulted in the long standing respectable name that we proudly bear today when it changed Stange Engineering to Strange Engineering. Since then, we have grown into an industry leading manufacturing company housed on a 120,000 square foot site and we continue to fuel the passion for the sport of Drag Racing!

**Race**Strange

Follow us on social media and hang on while we guide you through the world of Strange Racing and Strange Events.



Like racing? How about racing for up to \$20k? Come see us at Gearheadracingseries.com

SERIES

RACING

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#### TERMS

Orders may be shipped Certified Check, VISA, MASTER CARD, AMERICAN EXPRESS, OR DISCOVER CARD. Minimum order is \$10.00.

#### CLAIMS

Claims for damages in shipping, open or sealed, are to be made to freight forwarder. Claims for shortages must be made directly to Strange Engineering within 5 days of receipt.

#### RETURNS

Special order parts are non-returnable. No returns will be accepted without prior authorization. Please contact a Strange Engineering associate for a Returned Merchandise

Authorization number. Returns must be in new condition. Any part that has been installed or used will not be credited. All returns are subject to a 20% handling charge (minimum \$10) and return freight must be prepaid.

#### PRICING

Prices are subject to change without notice.

#### **DISCLAIMER OF WARRANTY**

Strange Engineering reserves the right to make changes in design and to add to or improve on its product without incurring any obligation to install the same on products previously manufactured.

Purchasers using Strange Engineering racing components and equipment as well as any and all inventory services, acknowledge that due to the differing conditions and circumstances under which all equipment and parts are installed and used, purchasers are not relying on Strange Engineering's skills or judgments to select or furnish the proper part or equipment. Purchasers expressly affirm they are relying upon their own skill or judgment to select and purchase suitable goods.

Strange Engineering makes no warranties whatsoever, expressed or implied, oral or written, to purchasers. There is no warranty of merchantability made to purchasers. Strange Engineering further excludes any implied warranty of fitness with respect to racing, equipment, any and all inventory and service.

#### **AXLE REPLACEMENT GUARANTEE**

Strange Alloy (induction hardened) 33 and 35 spline axles and Strange Pro Race Axles (thru-hardened) with 33, 35 (excluding gun-drilled) and 40-splines are guaranteed against spline breakage to the original owner for a period of five years. This replacement policy shall not apply to any product which has been repaired or altered in anyway so as in our judgment affects its performance; nor which has been subject to misuse, abuse, negligence or any other occurrence beyond the control of Strange Engineering. The replacement policy is effective from the invoice shipping date. In no way does Strange Engineering accept responsibility or liability beyond repair or replacement.

#### **SPOOL REPLACEMENT GUARANTEE**

Strange Pro Race steel spools carry a lifetime replacement policy against breakage to the original owner with proof of purchase. This replacement policy is only valid when the spool is used with Strange or unmodified OEM axles- this is due to irregularly cut and non-involute splines which occur in re-spline and cut spline axles which provide poor spline contact area. This replacement policy shall not apply to any product which has been repaired or altered in anyway so as in our judgment affects its performance; nor which has been subject to misuse, abuse, negligence or any other occurrence beyond the control of Strange Engineering. The replacement policy is not warrantied against excessive run-out due to ring and/or pinion breakage. The replacement policy is effective from the invoice shipping date. In no way does Strange Engineering accept responsibility or liability beyond repair or replacement.

## **BEING STRANGE**

Strange Engineering has over 50 years of manufacturing experience in the performance industry. Strange has grown from creating products inside a two car garage in the late 50's to an industry leading manufacturing company housed on a 120,000 square foot site.

The family owned business is still based on principles the company was founded on- quality product, quality service and a true enthusiasm for the performance industry.



The best tool for the job is the right tool for the job. Strange Engineering prides itself on supplying the best possible product for your particular application. Many years of experience have created different axle designs based on their intended use. After considering the loads and forces that the axle will endure, the right material is chosen along with the proper heat treatment to optimize its characteristics. Since this can not be accomplished by only one type of axle, it has lead to the development of both Pro Race Axles and Alloy Axles. Quality is ensured as all Strange axles are proudly made in the USA by Strange Engineering.

## **PRO RACE** THRU-HARDENED

#### MATERIAL

Hy-Tuf ultra strength forged alloy steel

#### **HEAT TREATMENT**

Thru-hardened @ Rc 45-46 Full depth of shaft

#### **APPLICATION**

**Competitive Drag Racing** 

#### ORIGIN

Hy-Tuf was originated in the class of Ultra-Strength alloys, which was developed for highly stressed landing gear in military aircrafts. The material is a low carbon, high manganese, high-nickel and high molybdenum steel.

#### **PROPERTIES**

Each Pro Race Axle is heat treated in a vertical furnace to a hardness of Rc 45-46. The axle is the same hardness from the center of the shaft to the surface (thru-hardened).

The combination of Hy-Tuf and thruhardened heat treatment provides an axle that achieves superior torsional strength and ductility. In addition, thru-hardened Hy-Tuf is ideal for weight saving gundrilled and ultra light axles. More drag racers depend on Strange Hy-Tuf Pro Race Axles than all other brands combined.

Pro Race (thru-hardened) and Alloy (induction hardened) axles are all NHRA & IHRA accepted; however, Strange Engineering maintains the highest standards in the industry for safety and performance. Therefore, we strongly recommend our thru-hardened Pro Race shafts for all competitive drag racing applications.



## **ALLOY** INDUCTION HARDENED

#### MATERIAL

Modified 1550 premium forged alloy steel

#### **HEAT TREATMENT**

Induction Hardened @ Rc 58-62 Hardness decreases from surface to the axle core

#### **APPLICATION**

High performance Street and Track

#### ORIGIN

1550 proved to be an excellent material for street applications, but required different properties to be suitable for track use as well. Various modifications were tested until the proper combination resulted in the material use today.

#### PROPERTIES

Induction hardening is a process in which an axle is pulled through an electrical coil. The electric coil heats and quenches the shaft. This type of heat treatment is ideal for hardening the case of the shaft while the axle shaft core and flange remain soft, allowing for an extremely ductile axle.

The combination of a premium alloy steel and induction hardening creates an axle which is able to survive the bending loads that are inherent with street use.

Strange Alloy Axles are offered in 28, 30, 31, 33 and 35 spline applications. Shafts up to 31 spline are ideal for street applications with the use of posi-units, Detroit Lockers, and helical gear differentials. The 33 and 35-spline axles are able to withstand even higher torque and bending loads. 35-spline alloy axles are well suited for street and track applications. They can be used with Detroit Lockers, Helical gear differentials, and spools. Spools are for racing applications only and should never be used on the street.

While Strange Alloy Axles are NHRA and IHRA accepted, the Pro Race Axles offer superior torsional and axle flange strength for the ultimate in Drag Race Only applications.

Strange axles are manufactured to meet each customer's needs. In order for us to produce an optimal axle fit, we have provided the following text and illustrations to assist you with supplying the necessary axle information. Please do not hesitate to call us if you have any questions.

Complete the information for Rear End Housing form if you cannot determine dimension C. The C dimension of an existing axle may be affected by changes to the housing ends, carrier, and brakes. When brakes are changed, so are many of the axle dimensions. Any additional information provided will help ensure a proper fit. Give all the necessary information for existing axles provided everything will remain the same. The facing page has a housing end identification chart as well as common OEM and aftermarket dimensions that can be useful to verify the measurements you are supplying.

#### **INFORMATION FOR AXLE ORDER FORM**

- (1) Application Street, Track, Street and Strip, or Drag Race Only
- (2) Carrier Differential or spool, and manufacturer The original C dimensions may change if the carrier is replaced
- (3) Number of axle splines
- (4) Bolt Circle See chart
- (5) Tapped for screw in studs (1/2-20 or 5/8-18)
   Only Alloy Axles can be drilled for knurled studs Specify knurl size
- (6) Housing end type Shape may vary- Please verify dimensions
- (7) Type of brakes and manufacturer- Drum, factory disc, or aftermarket Aftermarket brake companies should supply F dimension
- (8) D dimension Axle flange OD is 6.245" unless specified otherwise
- (9) Driver side and passenger side C dimension See axle diagram
- (10) A dimension Brake register See axle diagram
- (11) B dimension Bearing seat See axle diagram
- (12) H dimension Bearing area diameter See axle diagram
- (13) F dimension Brake offset See housing diagram B and F are not the same dimension - See Notes
- (14) Passenger side housing end to center of pinion Dimension L
- (15) Driver side housing end to center of pinion Dimension O
- (16) Housing end to housing end Dimensions L + O
- (17) Passenger side axle flange to center of pinion Dimension M
- (18) Driver side axle flange to center of pinion Dimension J
- (19) Axle flange to axle flange Dimensions M + J Do not add thickness of brake hat or drum

#### COMMON OEM DIMENSIONS

#### Chrysler / Dana / Mopar

A dimension - 2.300" or 2.820" B dimension - 2.200", 2.312", or 2.562" F dimension - 2.238, 2.350", or 2.600" H dimension - 1.563" Bolt circle - 5 on 4 1/2"

#### Ford

A dimension - 2.430", 2.530", 2.750", 2.780", 2.796", 2.875, or 3.060" B dimension - 1.875", 2.062", 2.125", 2.250", 2.375" or 2.437" F dimension - 2.145", 2.332", 2.500", or 2.625" H dimension - 1.379", 1.400", 1.532", 1.563", 1.626" or 1.773" Bolt circle - 4 on 4 1/4", 5 on 4 1/2', 5 on 5 1/2"

#### **General Motors**

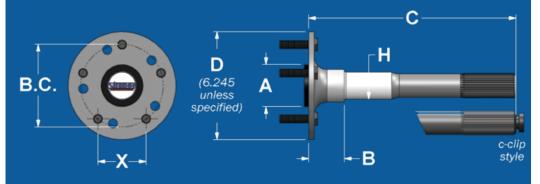
A dimension - 2.780", 2.812", or 3.060" B dimension - 2.562", C-clip style axle (none) F dimension - 2.832" H dimension - 1.379", 1.400", 1.532", 1.563" 1.626, or 1.773" Bolt circle - 5 on 4 3/4", 5 on 5", 5 on 5 1/2"

#### Notes:

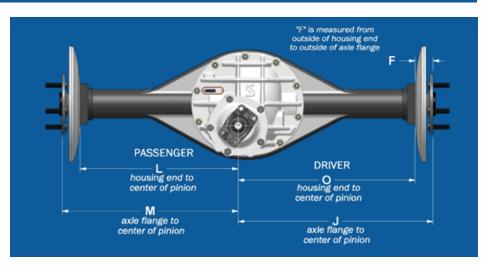
- Axle flange to axle flange is measured from the outside face of the axle flanges without any brakes installed.
- · If you have listed only housing end to housing end or axle flange to axle flange, please specify pinion offset.
- The B dimension is from the outside face of axle flange to the bearing shoulder machined onto the axle.
- The F dimension is measured from outside face of bare axle flange to the outside face of the housing end.
   Chrysler / Dana / Mopar housing ends do not have an internal step to stop the axle bearing.
   Therefore, the F dimension is obtained with the backing plate and gasket installed or their combined thickness accounted for.
- When upgrading to 35 spline axles in a Ford 9", an aftermarket 3.250" bore case is required.

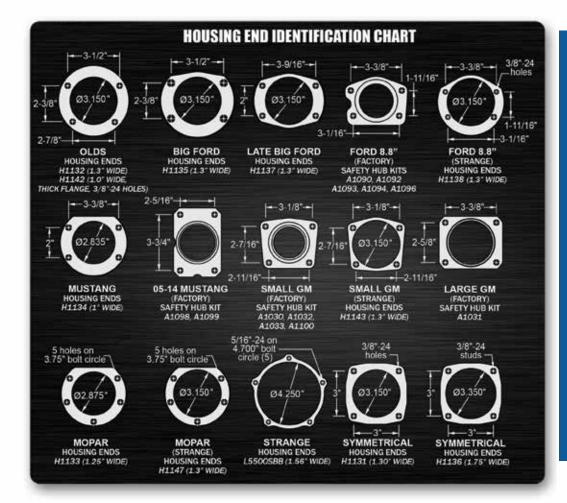
#### **AXLE FORM**

Х	<b>Bolt Circle</b>
2.645″	4 1/2″
2.792″	4 3/4″
2.939"	5″
3.233″	5 1/2"



#### **HOUSING FORM**





## Housing End Chart

#### Notes:

(1) FACTORY indicates OEM style housing ends that Strange does not manufacture and are listed for identification purposes; however, we do offer c-clip eliminator kits. C-clip eliminator kits may require new axles- call for your application.

(2) Big Ford or late big Ford OEM housing ends may vary in shape and housing end stud hole size.

#### • 2 day turnaround

- Designed for your custom street and hi-performance vehicle
  - CNC machined from premium forged alloy steel
- Induction hardened to resist bending loads and provide a more flexible axle
  - Radius rings to minimize stress concentrations
- Axles for Dana 60, Ford 8.8", 9", GM 12 bolt, 10 bolt, 57-64 Olds, Mopar 8 3/4"
  - 28, 30, 31, 33, & 35 spline
  - Alloy 35 spline axles designed for your street/strip requirements

**Strange Alloy Axles** are designed to meet the demanding bending loads of street use. Manufactured from premium alloy steel forgings, each alloy axle is induction hardened to its optimal hardness with Strange designed tooling. Alloy axle splines are hobbed to the proper involute spline before heat treatment. The axles are made with a large 1.563" diameter axle bearing area and the shoulder accepts a radius ring that minimizes stress concentrations. A billet aluminum brake register is provided to properly locate the center of your disc or drum brake system.

Alloy axles are offered in 28, 30, 31, 33 and 35 spline applications. Shafts up to 31 spline are ideal for street applications with the use of posi-units, Detroit Lockers, and helical gear differentials. It is always recommended to use the largest shaft as possible. If you own a 9" rear end and are considering purchasing a differential for a OEM case, then you should always upgrade from 28 to 31 spline components. The axles are identical in price and often the differentials are similar in cost. Although our 28 spline Alloy axle is stronger than OEM 28 spline, 31 spline axles are 38% stronger. We strongly recommend an upgrade to 31 spline axles for street applications.

Strange Alloy 33 and 35-spline axles are able to withstand even higher torque and bending loads. 35-spline alloy axles are ideal for street and strip applications and may be used with Detroit Lockers, helical gear differentials and spools. Spools are for Drag Racing only and should never be used on the street.

Strange also offers alloy replacement c-clip style axles for many OEM applications. Call today to discuss your requirements.

#### **STRANGE ALLOY AXLES**

A3100 Strange Alloy induction hardened axles Ford 28, 31, 33 spline / Mopar 30 spline/GM 30, 33 spline. Drilled and tapped for your choice of bolt circle- pair... \$349

A3500 Strange Alloy 35 spline induction hardened axles. Drilled and tapped for your choice of bolt circle- pair... \$349

A1004 Additional charge for access hole or third bolt circle- pair... \$16



## **STRANGE ALLOY C-CLIP AXLES**

- Manufactured from high strength steel Harder surface area than OEM for improved bearing/axle life
  - Deeper case hardening than OEM for superior torsional strength
    - Fully ground bearing surface and radius
  - Drilled for 1/2-20 screw-in studs & OEM press-in studs Fits OEM bearing

#### FORD MUSTANG 31 SPLINE C-CLIP AXLES

- P3110 Strange 31spline 8.8" c-clip axles 94-98 OEM Mustang disc applicationspair... \$250
- P3111 Strange 31 spline 8.8" c-clip axles 99-04 OEM Mustang disc applicationspair... \$250
- P3112 Strange 31 spline 8.8" c-clip axles 05-14 OEM Mustang disc applicationspair... \$284

#### GM 30 SPLINE C-CLIP AXLES

- P3020 Strange 30 spline GM 12 bolt c-clip axles 67-69 Camaro, 65-67 Chevelle, 68-72 Chevy II OEM drum applications- pair... \$250
- P3026 Strange 30 spline GM 12 bolt c-clip axles 70-72 Camaro, 68-72 Chevelle OEM drum applications- pair... \$250



## **C-CLIP AXLE BEARINGS, SEALS & STUDS**

- A3120K Ford 8.8" & GM 10 & 12-bolt car Axle bearing and seal for c-clip axle- pair... \$54
- A3121 Ford 8.8" press-in stud kit 10 pieces 94-04 Mustang (1/2"-20) .615" knurl... \$26
- A3130 GM press-in stud kit 10 pieces Up to 81 car (7/16"-20) .472" knurl... \$26



#### STRANGE ALLOY AXLE PACKAGES FOR FORD, GM, MOPAR AND MORE...

Alloy axle packages are easily configured to a wide range of applications and are customized for your vehicle. Strange has combined integrated components at money saving prices. As with all Strange packages, Alloy Axle packages are designed to ease installation saving you time & money



- P3102 Ford 28 or 31 spline axles, bearings, and 2" or 3" (1/2-20) stud kit......\$429
- P310258 P3102 with upgrade to 5/8" stud kit....\$489
- P3104 Ford 28, 31, Chevy or Mopar 30 spline axles, axle bearings, retaining plates, and 2" or 3" (1/2-20) stud kit.....\$446
- P310458 P3104 with upgrade to 5/8" stud kit....\$506
- P3302 Strange 33 spline axles, bearings, and 2" or 3" (1/2-20) stud kit......\$429
- P330258 P3302 with upgrade to 5/8" stud kit....\$489

P3304	Strange 33 spline axles, bearings, retaining plates and 2" or 3" (1/2-20) stud kit\$446
P330458	P3304 with upgrade to 5/8" stud kit\$506
P3502	Alloy 35 spline axles, bearings, and 2″ or 3″ (1/2-20) stud kit\$429
P350258	P3502 with upgrade to 5/8" stud kit\$489
P3504	Alloy 35 spline axles, bearings, retaining plates, and 2" or 3" (1/2-20) stud kit\$446
P350458	P3504 with upgrade to 5/8" stud kit\$506

## ALLOY AXLE PACKAGES



#### FORD 8.8" ALLOY AXLE PACKAGES WITH C-CLIP ELIMINATOR KIT

Strange 8.8" c-clip eliminators feature Timken roller bearings that are ideal for street and constant use

## 86-93 MUSTANG

P3109F86	Ford 28, 31 or Strange 33 spline Alloy axles, c-clip elimin 1986-1993 Mustang 8.8" application for OEM drum brain		
	With upgrade to A1027 5/8" stud kit\$5 With 35 spline Alloy axles\$4		
	With 35 spline Alloy axles and A1027 5/8" stud kit\$5		
198	86-1993 Applications can be used with aftermarket disc br	rake kits that are designed for c-clip eliminator kits	

#### 94-04 MUSTANG

P3109F94	Ford 28 or 31 spline Alloy axles, c-clip eliminator kit, and 2" or 3" (1/2-20) stud kit
	1994-2004 Mustang 8.8" application for OEM disc brakes - Specify GT or Cobra brakes\$569
P3109F9458	P3109F94 with upgrade to A1027 5/8" stud kit\$629
P3509F94	P3109F94 with Strange 35 spline Alloy axles
P3509F9458	P3109F94 with Strange 35 spline Alloy axles and A1027 5/8" stud kit\$629
OPAX01	Add optional Strange 1994-2004 ABS reluctor rings - pair\$89

## 05-14 MUSTANG

P3109F05	Ford 31 spline Alloy axles, c-clip eliminator kit, and 2" or 3" (1/2-20) stud kit <b>2005-2014 Mustang</b> 8.8" application for OEM GT & GT500 disc brakes\$678
P3109F0558	With upgrade to A1027 5/8" stud kit\$738
P3509F05	With Strange 35 spline Alloy axles\$678
P3509F0558	With Strange 35 spline Alloy axles and A1027 5/8" stud kit\$738
OPAX05	Add optional OEM 2005-2012 ABS reluctor rings - pair\$98
////2	2005-2014 kits include billet aluminum caliper mounts - Eliminating modifications that compromise integrity of the OEM mount 5/8″ stud kit option limited to A1027 due to clearance requirements for eliminator kits

## ALLOY AXLE & SPOOL PACKAGES

## STRANGE 35 SPLINE ALLOY AXLE & SPOOL PACKAGES FOR FORD, GM, MOPAR AND MORE...

Alloy axle & spool packages are easily configured to a wide range of applications and are customized for your vehicle. Strange has combined integrated components at money saving prices. As with all Strange packages, Alloy Axle packages are designed to ease installation saving you time & money

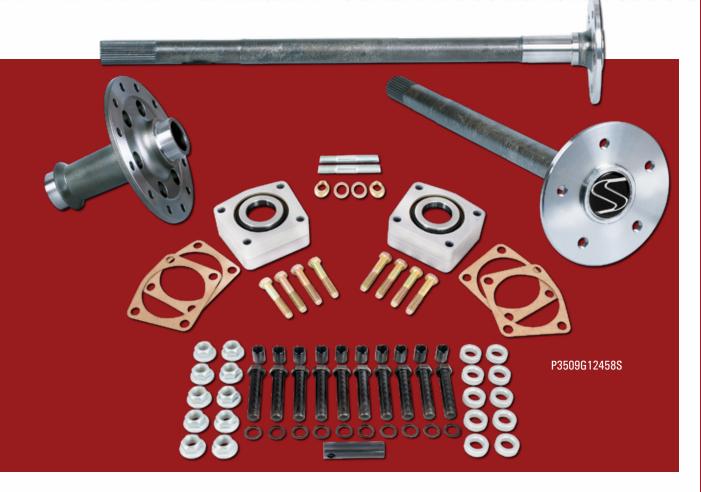


P350258S With upgrade to 5/8" stud kit....\$639

P3504S Strange 35 spline Alloy axles, axle bearings, retaining plates, 2" or 3" (1/2-20) stud kit, and Lightweight Pro Steel Spool... \$598

P350458S With upgrade to 5/8" stud kit .... \$658

## ALLOY AXLE & SPOOL PACKAGES



#### FORD 8.8 35 SPLINE ALLOY AXLE & SPOOL PACKAGES WITH C-CLIP ELIMINATOR KIT

- P3509F86S Alloy 35 spline axles, lightweight pro steel spool, c-clip eliminator kit, and 2" or 3" (1/2-20) stud kit 1986-1993 Mustang 8.8" application for OEM drum brakes... \$589
- P3509F8658S With upgrade to A1027 5/8" stud kit...... \$649

1986-1993 Mustang applications can use aftermarket disc brakes kits designed for use with c-clip eliminator kits

P3509F94S	Alloy 35 spline axles, lightweight pro steel spool, c-clip eliminator kit, and 2″ or 3″ (1/2-20) stud kit 1994-2004 Mustang 8.8″ application for OEM disc brakes - Specify GT or Cobra brakes\$710
P3509F9458S	With upgrade to A1027 5/8" stud kit\$769
OPAX01	Add Optional Strange 1994-2004 ABS reluctor rings - pair \$89
P3509F05S	Alloy 35 spline axles, lightweight pro steel spool, c-clip eliminator kit, and 2″ or 3″ (1/2-20) stud kit 2005-2014 Mustang application for OEM GT & GT500 disc brakes \$819
P3509F0558S	With upgrade to A1027 5/8" stud kit \$879
OPAX05	Add optional OEM 2005-2014 ABS reluctor rings - pair \$98
	2005-2014 Mustang kits include billet aluminum caliper mounts - No modifications to OEM mounts that compromise integrity

All 5/8" upgrades above are limited to A1027 stud kit due to clearances necessary for eliminator kits

- Designed for your custom drag racing application
- Involuted splines for increased strength
- Forged from Hy-Tuf for optimal grain structure
- Thru-hardened for superior torsional strength
- Contingency programs
- Five year replacement guarantee for 33, 35 and 40-spline axles
- Most orders shipped within 2 days

**STRANGE PRO RACE AXLES** are forged from Hy-Tuf alloy steel that was originally developed for highly stressed landing gear in military aircrafts. The material is in the class of Ultra Strength alloys and contains low carbon, high manganese, high nickel, and high molybdenum steel. Pro racing axles are thru-hardened allowing for a Drag Racing shaft with an exceptionally high, 240,000 PSI, tensile strength while retaining ductility.

Strange Engineering stocks a variety of completely finished axles for specific applications. After 50 years of manufacturing axles, we know which applications are most common and there is no reason to charge you extra for priority service. If your requirements cannot be met by our extensive inventory, we will custom manufacture your axle at no additional cost. Strange Pro Race axles are the best value on the market today. That's why more drag racing competitors rely on Strange axles than all other brands combined! Contact a Strange sales technician to discuss your specific application.

- A1000 Pro Race Hy-Tuf axles, any length, and any spline up to 35 Choice of bolt circle - Tapped for 1/2" or 5/8" screw-in studs- pair... \$454
  A1003 Lightened axle flange - Five 1" round lightening holes- pair... \$34
  A1004 Additional charge for access hole or third bolt circle- pair.... \$16
- A1005 Lighten shaft and flange 35 spline axles shafts gun-drilled with .875" bore Maximum length is 20" - Flanges machined with five round holes- pair... \$129
- A1006 Ultra Lite flange Pocket mill flange in solid or gun-drilled axles... \$80

Gun-drilled axles with A1006 option also are lightened underneath the Strange logo See picture on next page



**STRANGE GUN-DRILLED AXLES** were created to reduce rotating weight. Gun-drilling is a process where the core of the axle is removed leaving a .875" hole through the entire length of the shaft. Each gun-drilled axle is further lightened by eliminating axle flange material with five 1" diameter holes. A 35 spline gun-drilled axle is 25.6% lighter than a solid 35 spline axle and can be used for non-blown cars weighing under 1,850 lbs.

Strange 40 spline gun-drilled axles can withstand the abuse of drag racing vehicles weighing 3,500 lbs. and with quarter mile elapsed time slips under seven seconds. Strange 40 spline gun-drilled axles are 10% lighter than 35 spline solid axles and an astonishing 54% stronger. The Strange 40 spline gun-drilled axle is truly the ultimate drag racing axle.

A solid axle shaft is stronger than an equivalent in diameter gun-drilled shaft. When weight is not an issue, a gun-drilled axle should not be used.

## **PRO RACE AXLES**



Strange Ultra Light flange for solid axle is pictured above



Strange Ultra Light axle for gun-drilled axle shown above

**Strange 40 Spline Pro Race Axles** 



- A2000 Pro Race Hy-Tuf 40 spline gun-drilled axles, any length up to 30", choice of bolt circle, with five 1" round lightening holes in flange, tapped for 1/2" or 5/8" screw-in studs- pair......\$578
- A2100 Pro Race Hy-Tuf 40-spline solid axles, any length up to 35", choice of bolt circle, with five 1" round lightening holes in flange, tapped for 1/2" or 5/8" screw-in studs- pair......\$494

Gun-drilled axles with A1006 option are further lightened underneath the Strange logo removing an additional 1.50 lbs. compared to five 1" holes

#### ADVANTAGES OF THE STRANGE RADIUS RING

The axle bearing shoulder, where the bearing rests against the axle, encounters a tremendous amount of stress. The load, compared to OEM axles, is compounded by the use of slicks, larger diameter tires, aggressive launches, and tire shake. This area can be strengthened by increasing the diameter of the bearing surface and minimizing the distance from the axle bearing shoulder to the outside of the axle flange.

When we developed our 40 spline axle, the bearing surface OD was made to a giant 1.7735". By using a special stainless steel ring, we were able to accomplish three important goals. Increase the radius of the axle bearing shoulder, drastically reduce stress concentrations, minimize the distance from the bearing shoulder to the outside of the axle flange, and set axle offset to match the brake kit.

## PRO RACE AXLE PACKAGES



Strange has combined quality axle components with money saving prices. As with all packages, Strange pro race axle packages are designed to allow for easy installation. Our packages save you shopping time, down time and money.

A1100 c-clip eliminator kit coupled with a thru-hardened Pro Race axle, that has been re-designed for circle track and hard-core street/ strip use, offers GM 10 & 12 bolt rear end owners the best of both worlds.

Our specially designed A1100 c-clip eliminator kit employs giant Timken unit bearings, which survive severe side loads and constant use. Not to be confused with eliminator kits supplied with ball bearings that are for Drag Racing Only. The axle shaft is tapered to resist bending loads and the flange is machined with a generous radius for maximum side load strength.

#### GM STREET / STRIP / OVAL TRACK AXLE PACKAGE WITH C-CLIP ELIMINATOR KIT

P1011GOT Special Design Pro Race Hy-Tuf axles for small GM housing ends - Chevy 8.20", 8.5" or 12 bolt car Choice of bolt circle, A1100 c-clip eliminator kit and 2" or 3" (1/2"-20) stud kit... \$546

P1011G0T58 P1011GOT with upgrade to A1027 5/8" stud kit..... \$598

#### **GM DRAG RACE AXLE PACKAGE WITH C-CLIP ELIMINATOR KIT**

P1011GDR Pro Race Hy-Tuf axles for small or large GM housing ends - Chevy 8.20", 8.5" or 12 bolt car Choice of bolt circle, Drag Race Only c-clip eliminator kit, and 2" or 3" (1/2-20) stud kit... \$546

P1011GDR58 P1011GDR with upgrade to A1027 5/8" stud kit..... \$598

#### FORD MUSTANG 8.8" DRAG RACE AXLE PACKAGE WITH C-CLIP ELIMINATOR KIT

P1011F86Ford 31, Strange 33 or 35 spline Pro Race Hy-Tuf axles,<br/>86-93 Mustang 8.8" c-clip eliminator kit for OEM drum brakes, and 2" or 3" (1/2"-20) stud kit.....\$546

P1011F8658 With upgrade to A1027 5/8" stud kit..... \$598

## **PRO RACE AXLE PACKAGES**



#### FORD MUSTANG 8.8" DRAG RACE AXLE PACKAGE WITH C-CLIP ELIMINATOR KIT Continued

- P1011F94 Ford 31, Strange 33 or 35 spline Pro Race Hy-Tuf axles, c-clip eliminator kit, and 2" or 3" (1/2-20) stud kit 1994-2004 Mustang 8.8" applications for OEM disc brakes Specify GT or Cobra brakes... \$665
- P1011F9458 With upgrade to A1027 5/8" stud kit...... \$719
- OPAX01\* Optional Strange ABS reluctor rings- pair... \$89
- P1011F05 Ford 31, Strange 33 or 35 spline Pro Race Hy-Tuf axles, c-clip eliminator kit, and 2" or 3" (1/2-20) stud kit 2005-2014 Mustang 8.8" applications for OEM GT or GT500 disc brakes... \$775
- P1011F0558 With upgrade to A1027 5/8" stud kit...... \$829
- OPAX05 Optional OEM ABS reluctor rings- pair...... \$98

\* Needs special A1094E reluctor rings for ABS applications

2005-2014 kits include billet aluminum caliper mounts - Eliminating modifications that compromise integrity of the OEM mount 5/8" stud kit option limited to A1027 for all axle packages with eliminator kits due to clearance requirements

#### STRANGE 28 TO 35 SPLINE PRO RACE AXLE PACKAGES FOR FORD, GM, MOPAR AND MORE

- P1007 Pro Race Hy-Tuf axles any length, splined up to 35, choice of bolt circle, axle bearings, and 2" or 3" (1/2-20) stud kit...... \$496
- P100758 P1007 with upgrade to 5/8" stud kit... \$550
- P1008 Pro Race Hy-Tuf axles any length, splined up to 35, choice of bolt circle, axle bearings, retainer plates, and 2" or 3" (1/2-20) stud kit...... \$506

P100858 P1008 with upgrade to 5/8" stud kit... \$560

- A1006 Ultra Lite flange Pocket mill axle flange for solid or gun-drilled axles- pair....... \$80

## 40 SPLINE PRO RACE AXLE PACKAGES



## **40 SPLINE PRO RACE AXLE PACKAGES**

- P1014 Lightweight Pro Race Hy-Tuf 40 spline gun-drilled axles with .875" bore, any length up to 32", choice of bolt circle five 1" round lightening holes in flange, A1019 axle bearings, and 5/8" stud kit... \$689
- P1015 With upgrade to A1024 3.350" OD axle bearings... \$834
- P1016 Pro Race Hy-Tuf 40 spline solid axles any length up to 35", choice of bolt circle five 1" round lightening holes in flange, A1019 axle bearings, and 5/8" stud kit... \$608
- P1017 With upgrade to A1024 3.350" OD axle bearings... \$754



The Strange 2 piece axle has evolved beyond our competitions offerings. Designed for the professional racer, the two-piece axle is stronger and safer than a traditional one piece axle. However, the two-piece axle is not a replacement for a floater rear end. Strange developed the lightweight two-piece axle with Warren and Kurt Johnson in 1999 and is now common place among the most demanding teams including NHRA Pro Stock World Champions Greg Anderson, Allen Johnson, Jason Line and Erica Enders.

## 40 SPLINE PRO RACE AXLE PACKAGES



- Large capacity double row ball bearing
- 3.543" OD / 1.968" ID bearing housed in aluminum cartridge
- Provides low friction Allows high misalignment 1" bore gun-drilled 300M axle shafts
- Axle design captivates axle bearing Eliminates wedding ring
   Reduces wheel deflection
  - Lightweight construction

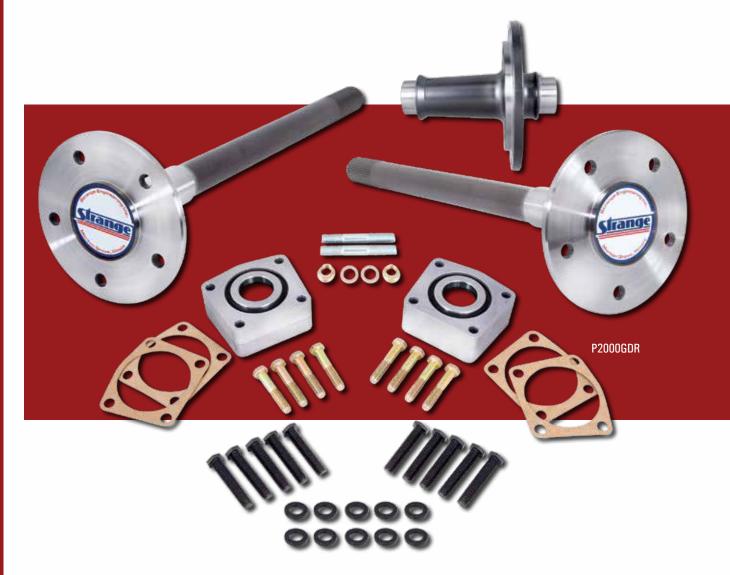
## **STRANGE 2 PIECE AXLE PACKAGE**

#### P1020

Lightweight 2 Piece axle assembly - Includes 1" bore gun-drilled 300M shafts, Ultra light independent axle flanges, chrome moly 5/8" stud kit, low friction high misalignment axle bearings, bearing cartridges, seals, and caliper mounts. Requires L5500SBB Strange housing ends and Strange brake kit for two piece axles - Not included........... \$1,795

OPPS01	Upgrade to HD spherical roller bearings \$250
L5500SBB	Housing end for Strange 2 piece axle- each \$88
C18104NBUC	Pro Carbon brake Kit · 4 3/4" BC - for Strange 2 piece axles · caliper mounts not included\$2,850
C18105NBUC	Pro Carbon brake Kit · 5" BC · for Strange 2 piece axles · caliper mounts not included\$2,850
B1711NBM	Pro Steel brake kit - 4 3/4" & 5" BC - for Strange 2 piece axles - caliper mounts not included\$545

## GM & FORD 8.8" PRO AXLE & SPOOL PACKAGES



#### GM OVAL TRACK AXLE & SPOOL PACKAGE WITH C-CLIP ELIMINATOR KIT

P2000GOT Pro Race Hy-Tuf axles for Chevy 8.20", 8.50" or 12 bolt using Small GM housing ends & OEM drum brakes\* 30 or 33 spline axles, choice of bolt circle, A1100 c-clip eliminator kit for oval track & street / strip applications, choice of 2" or 3" (1/2-20) stud kit and Lightweight Pro Steel spool...... \$639

P2000G0T58 With upgrade to A1027 5/8" stud kit...... \$694

OPRA01 Upgrade to 35 spline axles and spool...... \$50

#### GM DRAG RACE AXLE & SPOOL PACKAGE WITH C-CLIP ELIMINATOR KIT

P2000GDR	Pro Race Hy-Tuf axles for Chevy 8.20", 8.50" or 12 bolt using Small GM housing ends & OEM drum brakes* 30 or 33 spline axles, choice of bolt circle, Drag Race Only c-clip eliminator kit with low friction ball bearing,
	choice of 2" or 3" (1/2-20) stud kit and Lightweight Pro Steel spool \$639
P2000GDR58	With upgrade to A1027 5/8" stud kit \$694
OPRA01	Upgrade to 35 spline axles and spool \$50

## GM & FORD PRO RACE & SPOOL PACKAGES

#### FORD MUSTANG 8.8" PRO RACE AXLE & SPOOL PACKAGE WITH C-CLIP ELIMINATOR KIT

- P2000FM86 Pro Race Hy-Tuf 31 or 33-spline axles, c-clip eliminator kit, 2" or 3" (1/2-20) stud kit, and Lightweight Pro spool 1986-1993 Mustang 8.8" using OEM drum brakes \*.....\$639
- P2000FM8658 With upgrade to A1027 5/8" stud kit......\$694
- OPRA01 Upgrade to 35 spline axles and spool.......\$50

\* Aftermarket disc brake kits can be used if designed for c-clip eliminator kits All 5/8" upgrades above are limited to A1027 stud kit due to clearances necessary for eliminator kits

P2000FM94	Pro Race Hy-Tuf 31 or 33-spline axles, c-clip eliminator kit, 2" or 3" (1/2-20) stud kit, and Lightweight Pro spool 1994-2004 Mustang 8.8" using OEM disc brakes (specify GT or Cobra brakes) \$722
P2000FM9458	P2000FM94 with upgrade to A1027 5/8" stud kit \$775
OPRA01	Upgrade to 35 spline axles and spool \$50

OPAX01\* Optional Strange ABS reluctor rings for 1994-2004 Mustang- pair... \$89

\* Needs special A1094E reluctor rings for ABS applications

P2000FM05	Pro Race Hy-Tuf 31 or 33-spline axles, c-clip eliminator kit, 2″ or 3″ (1/2-20) stud kit, and Lightweight Pro spool 2005-2014 Mustang 8.8″ using OEM GT or GT500 disc brakes \$829
P2000FM0558	With upgrade to A1027 5/8" stud kit\$884
OPRA01	Upgrade to 35 spline axles and spool\$50

OPAX05 Optional OEM ABS reluctor rings for 2005-2014 Mustang- pair....\$98

05-14 kits include billet aluminum caliper mounts - Eliminating modifications that compromise integrity of the OEM mount 5/8" stud kit option limited to A1027 due to clearance requirements for eliminator kits



## **PRO RACE AXLE & SPOOL PACKAGES & ACCESSORIES**



#### STRANGE PRO RACE HY-TUF AXLE AND LIGHTWEIGHT STEEL SPOOL PACKAGES

Easily configured to a wide range of applications. Custom designed for your vehicle at money saving prices!

P2005	Pro Race Hy-Tuf axles any length, 33 or 35-spline, choice of bolt circle, axle bearings, 2″ or 3″ (1/2-20) stud kit, retaining plates, and Lightweight Pro Steel spool\$654
P200558	With upgrade to 5/8" stud kit \$709
P2007	Pro Race Hy-Tuf axles any length, 33 or 35-spline, choice of bolt circle, axle bearings, 2″ or 3″ (1/2-20) stud kit, and Lightweight Pro Steel spool \$634
P200758	With upgrade to 5/8" stud kit \$689



P2015	Lightweight Pro Race Hy-Tuf 40 spline gun-drilled axles875" bore, any length up to 30" choice of bolt circle, five 1" round lightening holes in axle flange, A1019 axle bearings, 5/8" stud kit and Lightweight Pro Steel spool \$915
P2016	With upgrade to A1024 3.350" OD axle bearings \$1,036
P2017	Pro Race Hy-Tuf 40 spline solid axles - any length up to 35" choice of bolt circle, five 1" round lightening holes in axle flange, A1019 axle bearings, 5/8" stud kit and Lightweight Pro Steel spool) \$826
P2018	With upgrade to A1024 3.350" OD axle bearings \$946

strang

OPTIONAL ULTRA LIGHT FLANGE AVAILABLE FOR ALL STRANGE AXLE PACKAGES A1006 ADD \$80

#### **STRANGE STUD KITS**

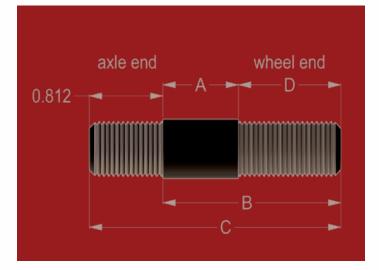
Strange offers the choice of two types of 5/8" stud kits.

Our traditional A1027 stud kit features premium bolts & adjustable .875" long sleeves. This the lightest stud kit.

In addition, we offer five lengths of chrome moly stud kits. Ensure dimension "A" is able to fully engage into your wheel. This needs to be slightly greater than the combined thickness of the disc brake hat or drum and the thickness of the wheel.

Every 5/8'' stud kit includes aluminum anti-marring washers that protect the wheel from the nut. Anti-marring washers are offered in .250'', .4375'' and .688'' widths. The .4375'' washer is our standard washer thickness. You can choose to substitute with the .250'' by adding "S" at the end of the part number, or "L" for the .688'' washers.

Strange 1/2" stud kits are offered in 2" and 3" lengths. The stud length refers to the threaded portion of the stud. To determine the usable thread that will protrude from the axle flange, subtract the thickness of the axle flange and an additional .0625" for the washer. 1/2" stud kits are designed for 1/2"-20 lug nuts - Not included in kits.



#### **STRANGE 1/2" STUD KITS**

A1025 2" screw-in stud kit for Strange axles (1/2"-20) Grade 8 bolts and washers- 10 of each....... \$21

## PRO RACE AXLE & SPOOL PACKAGES & ACCESSORIES

#### **CHROME MOLY 5/8" STUD KITS**

A1037 3" screw-in stud kit for Strange axles (5/8"-18) Grade 8 bolts with .875" adjustable sleeves, lug nuts, .4375" aluminum washers, and wrench... \$90





#### **TRADITIONAL 5/8" STUD KITS**

A1027 3" screw-in stud kit for Strange axles (5/8"-18) Grade 8 bolts with .875" adjustable sleeves, lug nuts, .4375" aluminum washers, and wrench... \$90



#### ALL STRANGE 5/8" STUD KITS - \$90

5/8" stud kits contain .4375" washers unless otherwise noted Add "S" to end of part number for .250" or "L" for .688"

## ACCESSORIES

C-Clip Eliminator kits were originated by Strange Engineering and are required by drag racing rules for good reason.

C-Clip type axles are retained by a clip above the spline portion of the axle. When the stock axle or differential breaks, the entire axle and wheel assembly can slide completely out of the housing. The Strange kit eliminates the dangers of wheel loss. The bearings are press fit onto the axles and enclosed by aluminum halves. These halves bolt to the stock axle housing ends, securely retaining the axle.

Drag Race Only kits are supplied with low friction ball bearings. They reduce rotational loss, but are not acceptable for any other use.

Street, Street/Strip, and Oval Track kits utilize tapered axle bearings. These kits are ideal for many applications requiring extended use.

## FORD 8.8" MUSTANG C-CLIP ELIMINATOR KITS

A1090	Street / Strip c-clip eliminator kit for Strange axles @ 1.563" 86-93 Mustang 8.8" using OEM drum brakes *\$179
A1093	Street / Strip c-clip eliminator kit for OEM c-clip axles 86-93 Mustang 8.8" using OEM drum brakes*\$179
A1094	Street / Strip c-clip eliminator kit for Strange axles @ 1.563". Includes billet aluminum caliper mounts for GT brakes 94-04 Mustang 8.8" using OEM GT disc brakes \$230
A1095	Street / Strip c-clip eliminator kit for Strange axles @ 1.563". Includes billet aluminum caliper mounts for Cobra brakes 94-04 Mustang 8.8" using OEM Cobra disc brakes
A1096*	Street / Strip c-clip eliminator kit for OEM c-clip axles. Includes billet aluminum caliper mounts for GT brakes 94-04 Mustang 8.8" using OEM GT disc brakes \$230
A1097	Street / Strip c-clip eliminator kit for OEM c-clip axles. Includes billet aluminum caliper mounts for Cobra brakes 94-04 Mustang 8.8" using OEM Cobra disc brakes \$230
A1098	Street / Strip c-clip eliminator kit for OEM c-clip axles. Includes billet aluminum caliper mounts for stock brakes 05-14 Mustang 8.8" using OEM stock disc brakes
A1098GT5	Street / Strip c-clip eliminator kit for OEM & replacement c-clip axles. Includes billet aluminum calper mounts for GT500 brakes 05-14 Mustang 8.8" using 13-14 GT500 brakes \$349
A1099	Street / Strip c-clip eliminator kit for Strange custom Hy-Tuf axles. Includes billet aluminum caliper mounts for stock brakes 05-14 Mustang 8.8" using OEM stock disc brakes \$339
A1099ST	Street / Strip c-clip eliminator kit for Strange custom Alloy axles. Includes billet aluminum caliper mounts for stock brakes 05-14 Mustang 8.8" using OEM stock disc brakes \$339
A1099GT5	Strip c-clip eliminator kit for Strange Hy-Tuf axles. Includes billet aluminum caliper mounts for GT500 brakes 05-14 Mustang 8.8" using 13-14 GT500 brakes \$339
A1099STGT5	Street / Strip c-clip eliminator kit for Strange Alloy axles. Includes billet aluminum caliper mounts for GT500 brakes 05-14 Mustang 8.8" using 13-14 GT500 brakes \$339
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\* Needs special A1094E reluctor rings for ABS applications

1986-1993 Mustang applications can use aftermarket disc brake kits designed specifically for c-clip eliminator kits

## ACCESSORIES



#### GM 10 & 12 BOLT C-CLIP ELIMINATOR KITS

- A1030 Drag Race Only c-clip eliminator kit for Strange axles @ 1.532" Chevy 8.2, 8.5, & 12 bolt car with Small GM housing ends using OEM drum brakes \*....\$179
- A1031 Drag Race Only c-clip eliminator kit for Strange axles @ 1.532" Chevy 12 bolt with Large GM housing ends using OEM drum brakes \*... \$220
- A1031Z Drag Race Only c-clip eliminator kit for Strange axles @ 1.563" Chevy 12 bolt with Large GM housing ends using OEM drum brakes \*... \$220
- A1033 Street / Strip c-clip eliminator kit for OEM c-clip axles Chevy 8.2, 8.5, & 12 bolt car with Small GM housing ends using OEM drum brakes \*... \$179

#### **AXLE BEARINGS**

- A1013 Timken tapered axle bearing, locking ring & outboard seal 1.562" bore for 3.150 ID housing end- ea....\$35
- A1019 Ball style axle bearing and locking ring 1.772" bore for 3.150" ID housing end- ea....\$40
- A1020 Ball style axle bearing and locking ring 1.531" bore for 3.150" ID housing end- ea.....\$40
- A1021 Ball style axle bearing and locking ring 1.562" bore for 3.150" ID housing end- ea....\$40
- A1022 Mopar non-adjustable axle bearing, locking ring, spirolox, retainer plate - 1.562" bore for 2.875" housing end- ea....\$40
- A10220B Mopar non-adjustable axle bearing, locking ring, fixed retainer plate - 1.562" bore for 2.875" housing end- ea....\$40
- A1023 Small Ford axle bearing, locking ring, and retainer plate 1.562" bore for 2.835" ID housing end- ea....\$50
- A1024 Ball style axle bearing, locking ring and o-ring 1.772" bore for 3.350" housing end- ea....\$154

A1033ST Street / Strip c-clip eliminator kit for Strange Alloy axles Chevy 8.2, 8.5, & 12 bolt car with Small GM housing ends using OEM drum brakes \*... \$179

A1034 Drag Race Only c-clip eliminator kit for Strange axles @ 1.563" Chevy 8.2, 8.5, & 12 bolt car with Small GM housing ends using OEM drum brakes \*... \$179

A1100 Street/Strip/Oval c-clip eliminator kit for Strange axles @ 1.7735" Chevy 8.2, 8.5, & 12 bolt car with Small GM housing ends using OEM drum brakes \*... \$220

\* Can use aftermarket disc brake kits designed for c-clip eliminator kits

#### **RETAINER PLATES**

- A1114 Small GM retainer plate for Strange H1143 ends- ea... \$14
- A1015 Oldsmobile retainer plateea... \$14
- A1016 Early Big Ford retainer plate with 1/2 " bolt holes- ea... \$14
- A1018 Late big Ford retainer plate with 3/8" bolt holes- ea... \$14
- A1023B Small Ford retainer plateea... \$14
- H1138B Ford 8.8" retainer plate for Strange H1138 ends- ea... \$14
- H1147B Mopar retainer plate for Strange H1147 ends- ea... \$14

## US STRANGE, SPICER, RICHMOND, MOTIVE

#### 8620 PRO STREET / STANDARD

**GEAR SETS:** The combination of 8620 steel and precise heat treatment results in a gear set with the strength and hardness necessary for excellent life in circle track, street and some Drag Racing applications.

**9310 DRAG RACE / PRO GEAR SETS:** For Drag Racing ONLY! High nickel 9310 steel gear sets are softer by design to absorb the high impact shock loads that occur in many Drag Racing classes.

**GEAR SET BREAK-IN:** Pro Street / Standard gear sets must be broken-in properly to ensure maximum life and quiet operation. During this process, the gear set is heat cycled and lapped. A new ring and pinion will generate a lot of heat due to friction. If temperatures get too high, they will alter the surface hardness of the material leading to early failure.

**LUBRICATION:** The differential will best determine the proper gear lube. Always follow the recommendations of the differential manufacturer. In general, clutch style posi units or cone type systems require a quality petroleum based gear lube along with a bottle of friction modifier. For helical gear units, use the petroleum based fluid only. Always check before using any synthetic fluids as irreversible damage may occur. If using a spool, the choice is yours between petroleum and synthetic.

**RING GEAR LIGHTENING SERVICE:** Ring gear lightening is offered for all gear sets that can benefit from the process. The ring gear is machined to reduce rotating weight. Weight reduction ranges from .75 lbs. to 2.75 lbs. depending on ratio and the rear end it fits. Each ring gear is machined with a generous radius and the weight reduction will not reduce gear life for the vast majority of applications.

PERFORMANCE GEAR SET

D3596 D3597 Lighten purchased new ring gear.....\$75 Lighten customer supplied new ring gear.....\$100

8.00 - 165 mph 7.50 - 176 mph

GEAR I	RATIO CALCULATION	
Revolutions	Per Minute = 336 x Gear Ratio x MPH	Miles Per Hour = Tire Diameter x RPM
	Tire Diameter	336 x Gear Ratio
Gear Ratio =	= Tire Diameter x RPM	Tire Diameter = 336 x Gear Ratio x MPH
	336 x MPH	RPM

#### **APPROXIMATE 1/4 MILE ET TO MPH (without power adders or throttle stop)**

13.00 · 100 mph	12.00 - 108 mph	11.00 · 121 mph	10.00 · 132 mph	9.00 - 147 mph
12.50 - 105 mph	11.50 - 116 mph	10.50 - 127 mph	9.50 - 139 mph	8.50 - 158 mph

**STRANGE MASTER INSTALLATION KITS:** When investing in the new gear set and/or carrier, it is important to use new bearings, seals, ring gear bolts, and other essential installation components. New installation components will reduce the chance of gear set and component failure.

Strange Engineering offers master installation kits for most gear set applications. Master installation kits feature Timken bearings and races, ring gear bolts, shims, seal, pinion nut, gasket or sealer, brush, marking compound, and crush collar if required.

**STRANGE BASIC INSTALLATION KITS:** Basic kits include ring gear bolts, shims, seal, pinion nut, gasket or sealer, brush, marking compound, and crush collar if required. Bearings and races are not included.

**MICROBLUE:** This two step process greatly reduces friction between the ring and pinion. The REM stage removes the rough OEM machining marks. Afterwards, it receives the MicroBlue coating which improves the wetting characteristics of the differential fluid. This makes the gear set "slipperier" in gear oil. Less heat and friction add up to more available horsepower and longer gear life. This process is also available for bearings and races in installation kits.

ž	D3598G	MicroBlue Gear Set	\$240
ŝ	D3598B	Pinion & side (bearings/races)	\$130
	D3598BT	Pinion & side (bearings/races), and tail bearing	\$160



## US STRANGE, SPICER, RICHMOND, MOTIVE

D1580

D3503 D3508 D3508F

D3502A D3502 D3504

#### **DANA 60 STANDARD GEAR SETS**

D3550	Spicer	3.54 ratio 3 Series \$330
D3551	Spicer	3.73 ratio 3 Series \$225
D3552	Spicer	4.10 ratio 3 Series \$225
D3570	Richmond	4.10 ratio 5 Series \$238
RS05897430H	Hoosier	4.30 ratio 3 Series \$225

D3553	Spicer	4.56 ratio 5 Series \$225
RSD60488	Richmond	4.88 ratio 5 Series \$248
RSD60513	Richmond	5.13 ratio 5 Series \$251
D3555	Spicer	5.86 ratio 5 Series\$260

\* 3-series fits 4.10 & numerically lower carrier

\* 5-series fits 4.56 & numerically higher carrier

## DANA 60 DRAG RACE / PRO GEAR SETS (5-SERIES)

 RP05997410US
 U

 RP05997410
 F

 RP060410
 F

 RP05997430US
 F

 RP05997456US
 F

 RP05997456
 F

 RP060456
 F

 RP05997488US
 F

**US Gear** 4.10 ratio..... \$556 Motive 4.10 ratio..... \$369 Richmond 4.10 ratio..... \$388 4.30 ratio..... \$358 **US** Gear **US Gear** 4.56 ratio..... \$556 Motive 4.56 ratio..... \$371 Richmond 4.56 ratio..... \$390 **US Gear** 4.88 ratio..... \$556 Motive 4.88 ratio.....\$371

RPD60488	Richmond	4.88 ratio	\$390	
RP05997514	Motive	5.14 ratio	\$345	
RP05997538US	US Gear	5.38 ratio	\$556	
RPD60538	Richmond	5.38 ratio	\$360	
RP05997557US	US Gear	5.57 ratio	\$556	
RP05997586US	US Gear	5.86 ratio	\$556	
RP05997617US	US Gear	6.17 ratio	\$556	
RPD60617	Richmond	6.17 ratio	\$408	

#### **DANA 60 / STRANGE S60 INSTALLATION KITS**

D3512	Strange S60 Master installation kit	\$180
D3513	OEM Dana 60 Master installation kit	\$180
D3525	Front pinion bearing	\$18
D3526	Front pinion race	\$12
D3527	Rear pinion bearing	\$25
D3528	Rear pinion race	\$14
D1592	Side bearings & races for Strange S60	\$60

Side bearings & races for OEM Dana 60	\$69
Pinion seal	\$9
Pinion seal, pinion nut, & washer	\$10
Ring gear bolts	\$11
Cover gasket, pinion nut, & shim kit	\$60
Cover gasket	\$9
Cover gasket- Fel-Pro High Performance	\$18

#### **MOPAR 8.75" (742 CASE) STANDARD GEAR SETS AND INSTALLATION KITS**

<ul> <li>10 bolt Drop-</li> <li>Ring gear = 8</li> <li>Pinion shaft =</li> <li>Pinion spline =</li> <li>3/8"-24 LH brock</li> </ul>	8.75″ = 1.750″ (straight pinion s = 10	haft) E	Barracuda 64-68 Belvedere 57-68 3200, B250, W100 Chrysler 300 57-68 Challenger 68 only	3	Cor Dar Fury	arger (Daytona) 66-68 onet 63-68 t, Swinger 66-68 y 57-68 erial, New Yorker 57-68	Monaco, Polara 63-68 Road Runner 68 only Satellite 68 only Super Bee 68 only Valiant 60-68
RS03887373E RS03887391E			\$258 \$261	RS03887 RS03887			4.30 ratio \$219 4.86 ratio \$219
R5261 R5261SP	Master installation kit fo Master installation kit fo			R5260 R5258		Basic installation kit Ring gear bolts ***	\$68 \$18
	* For OEM	carrier	** For Strange	spool or Auburn ca	rrier	*** Included in kits	

## **MOPAR 8.75" (489 CASE) STANDARD GEAR SETS AND INSTALLATION KITS**

•	10	bolt	Drop-Out	
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• Ring gear = 8.75"

• Pinion shaft = 1.875"

• Pinion spline = 29

• 3/8"-24 LH bolt holes

RS03887323LUS
RS03887355LUS
RS03887355L
RS03887373LUS
RS03887373L
RS03887391LUS
RS03887391L

B200, B250, W100 & W150 69-73 Chrysler 300 69-73 Challenger 70-73 3.23 ratio..... \$411

3.55 ratio..... \$265

3.55 ratio..... \$263

3.73 ratio..... \$265

3.73 ratio..... \$265

3.91 ratio..... \$265

3.91 ratio..... \$265

Barracuda 69-73

Belvedere 69-70

Charger (Daytona) 69-73 Dart, Swinger 69-73 Fury 69-73 Newport, New Yorker 69-73 Monaco, Polara 69-73

**US Strange** 

Motive

US Gear

US Gear

Motive

US Gear US Gear

RS03887410LUS

RS03887430LUS

RS03887456LUS

RS03887486LUS

RS03887513LUS

RS03887456L

RS03887410L

Road Runner 69-73 Satellite 69-73 Super Bee 69-70 Valiant 69-73

4.10 ratio	\$411
4.10 ratio	\$265
4.30 ratio	\$265
4.56 ratio	\$265
4.56 ratio	\$265
4.86 ratio	\$265
5.13 ratio	\$265

R5266	Master installation kit for 489 case	\$129
R5265	Basic Kit	\$58
R5258	Ring gear bolts *	\$18
D1584	Side bearings & races for 489 case	\$60

US Gear

US Gear

Motive

US Gear

Motive

US Gear

Motive

\* Included in kit



#### **9" FORD STANDARD GEAR SETS - 28 SPLINE PINION**

US Gear

Motive

US Gear

Motive

US Gear

US Gear

Motive

US Gear

Motive

US Gear

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RS07890300US RS07890300 RS07890325US RS07890325 RS07890340US RS07890350US RS07890350 RS07890370US RS07890370 RS07890389US RS07890389 RS07890400US RS07890411US RS07890411 RS07890430US RS07890430 RS07890457US RS07890457 RS07890463US RS07890471US RS07890471 RS07890478US

3.00 ratio..... \$217 3.00 ratio..... \$263 3.25 ratio..... \$217 3.25 ratio..... \$263 3.40 ratio..... \$217 3.50 ratio..... \$217 3.50 ratio..... \$204 3.70 ratio..... \$217 3.70 ratio..... \$242 3.89 ratio..... \$217 3.89 ratio..... \$238 4.00 ratio..... \$217 4.11 ratio..... \$217 4.11 ratio..... \$238 4.30 ratio..... \$217 4.30 ratio..... \$247 4.57 ratio..... \$217 4.57 ratio..... \$215 4.63 ratio..... \$217 4.71 ratio..... \$217 4.71 ratio..... \$268 4.78 ratio..... \$217

RS07890486US RS07890486 RS07890500US RS07890500 RS07890514US RS07890514 RS07890529US RS07890529 RS07890543US RS07890543 RS07890567US RS07890567 RS07890583US RS07890583 RS07890600US RS07890600 RS07890620US RS07890620 RS07890633US RS07890633 RS07890650US RS07890650

US Gear Motive US Gear Motive

4.86	ratio	\$217
4.86	ratio	\$232
5.00	ratio	\$217
5.00	ratio	\$242
5.14	ratio	\$217
5.14	ratio	\$226
5.29	ratio	\$217
5.29	ratio	\$242
5.43	ratio	\$217
5.43	ratio	\$226
5.67	ratio	\$217
5.67	ratio	\$226
5.83	ratio	\$217
5.83	ratio	\$242
6.00	ratio	\$217
6.00	ratio	\$242
6.20	ratio	\$217
6.20	ratio	\$242
6.33	ratio	\$217
6.33	ratio	\$242
	ratio	
6.50	ratio	\$242

## **9" FORD DRAG RACE PRO GEAR SETS**

RP07990340US **RPF90340** RP07990350US RPF90350 RP07990360US RPF90360 RP07990370US RP07990370 **RPF90370** RP07990389US RP07990389 **RPF90389** RP07990411US RP07990411 RPF90411 RP07990429US RP07990429 **RPF90429** RP07990457US RP07990457 **RPF90457** RP07990471US RPF90471 RP07990486US RP07990486 **RPF90486** RP07990486S

3.40 ratio \*..... \$450 Richmond 3.40 ratio \*..... \$484 3.50 ratio \*..... \$450 Richmond 3.50 ratio \*..... \$484 3.60 ratio \*..... \$450 Richmond 3.60 ratio \*..... \$471 3.70 ratio \*..... \$450 3.70 ratio \*..... \$551 Richmond 3.70 ratio \*..... \$418 US Gear 3.89 ratio \*.....\$450 3.89 ratio \*..... \$424 Richmond 3.89 ratio \*.....\$446 4.11 ratio \*..... \$420 4.11 ratio \*..... \$389 Richmond 4.11 ratio \*..... \$409 4.29 ratio \*..... \$420 4.29 ratio \*..... \$389 4.29 ratio \*..... \$409 Richmond 4.57 ratio \*..... \$420 4.57 ratio \*..... \$402 Richmond 4.57 ratio \*..... \$423 **US** Gear 4.71 ratio \*..... \$420 Richmond 4.71 ratio \*..... \$408 4.86 ratio \*..... \$405 **US Gear** 4.86 ratio \*..... \$389 4.86 ratio \*..... \$409 Richmond 4.86 ratio.....\$353

**RPF90486S** RP07990500US RPF90500 RP07990514US RP07990514 RPF90514 RP07990529US RP07990529 **RPF90529** RP07990543US RP07990543 **RPF90543** RP07990567US RP07990567 RPF90567 RP07990583US RP07990583 RPF90583 RP07990600US RP07990600 RP07990620US RP07990620 RP07990633US RP07990650 RPF90650

Richmond **US** Gear Richmond **US** Gear Motive Richmond **US Gear** Motive Richmond **US** Gear Motive Richmond **US** Gear Motive Richmond **US Gear** Motive Richmond **US Gear** Motive **US** Gear Motive **US** Gear Motive Richmond

4.86 ratio..... \$371 5.00 ratio..... \$389 5.00 ratio..... \$370 5.14 ratio..... \$389 5.14 ratio..... \$342 5.14 ratio..... \$360 5.29 ratio..... \$389 5.29 ratio..... \$388 5.29 ratio..... \$408 5.43 ratio..... \$389 5.43 ratio..... \$370 5.43 ratio..... \$389 5.67 ratio.....\$389 5.67 ratio..... \$370 5.67 ratio..... \$389 5.83 ratio..... \$374 5.83 ratio..... \$371 5.83 ratio..... \$390 6.00 ratio.....\$374 6.00 ratio.....\$449 6.20 ratio..... \$374 6.20 ratio..... \$449 6.33 ratio..... \$374 6.50 ratio..... \$449 6.50 ratio......\$362

35 spline pinion shaft- Suitable pinion support and yoke required

#### 9 1/2" DRAG RACE PRO GEAR SETS -35 Spline Pinion

RP07995325	US Gear	3.25 ratio \$512	RPF95411	Richmond	4.11 ratio \$619
RP07995340	US Gear	3.40 ratio \$512	RP07995429	US Gear	4.29 ratio \$498
RP07995350	US Gear	3.50 ratio \$512	RP07995429M0T	Motive	4.29 ratio \$509
RP07995360	US Gear	3.60 ratio \$512	RPF95429	Richmond	4.29 ratio \$619
RP07995370	US Gear	3.70 ratio\$512	RP07995456M0T	Motive	4.56 ratio \$509
RP07995389	US Gear	3.89 ratio \$498	RP07995457	US Gear	4.57 ratio \$498
RP07995389M0T	Motive	3.89 ratio \$509	RP07995486	US Gear	4.86 ratio \$498
RP07995411	US Gear	4.11 ratio \$498	RP07995500	US Gear	5.00 ratio \$498
RP07995411M0T	Motive	4.11 ratio \$509	RP07995514	US Gear	5.14 ratio \$498

All 9 1/2" gear sets require suitable case, pinion support, & yoke ensure housing was designed with proper clearance to use these gears

## 10" DRAG RACE PRO GEAR SETS -35 SPLINE PINION

RP07910370	US Gear	3.70 ratio \$934	RP07910514	US Gear	5.14 ratio \$934
RP07910389	US Gear	3.89 ratio \$934	RP07910514M0T	Motive	5.14 ratio \$1,233
RP07910411	US Gear	4.11 ratio \$934	RP07910533M0T	Motive	5.33 ratio \$1,257
RP07910411M0T	Motive	4.11 ratio \$1,28	8 RP07910537M0T	Motive	5.37 ratio \$1,257
RP07910429	US Gear	4.29 ratio \$934	RP07910543	US Gear	5.43 ratio \$934
RP07910429M0T	Motive	4.29 ratio \$1,27	5 RP07910543M0T	Motive	5.43 ratio \$1,233
RP07910457	US Gear	4.57 ratio \$934	RP07910567	US Gear	5.67 ratio \$934
RP07910457M0T	Motive	4.57 ratio \$1,27	5 RP07910583	US Gear	5.83 ratio \$934
RP07910471	US Gear	4.71 ratio \$934	RP07910620	US Gear	6.20 ratio \$934
RP07910471M0T	Motive	4.71 ratio \$1,24	5		
RP07910500	US Gear	5.00 ratio \$934	All 10" gear sets reg	uire suitable ca	ase, pinion support, & yoke
RP07910500M0T	Motive	5.00 ratio \$1,23			proper clearance to use these gears

#### 10.5", & 12 1/4" LIVE AXLE GEAR SETS

R7091	10.5″	2.91 ratio	\$2,250
R7111	10.5″	4.11 ratio	\$2,250
R7422	12.25″	3.20 ratio	\$2,950

Live Axle gear sets include pinion bearing, pinion nut & ring gear bolts

## US STRANGE, SPICER, RICHMOND, MOTIVE

#### **BASIC INSTALLATION KITS**

R5240	Basic installation kit for posi units \$37
R5242	Basic installation kit for open carriers \$37

Basic kits include center section gasket

## ULTRA CASE GEAR CHANGE KITS

R5237UC	For tapered bearing and 28 spline pinion *\$185
R5237UCR	For tapered bearing and 28 spline pinion\$220
R5237UCB	For ball bearing and 28 spline pinion *\$275
R5237UCBR	For ball bearing and 28 spline pinion\$287
R5238UC	For tapered bearing and 35 spline pinion *\$225
R5238UCR	For tapered bearing and 35 spline pinion\$260
R5238UCB	For ball bearing and 35 spline pinion *\$340
R5238UCBR	For ball bearing and 35 spline pinion\$350
	Kerke Borker Korker Korker Korker Korker Korker

\* Pinion races not included

Center section gasket not included in above kits- Available separately

#### **MASTER INSTALLATION KITS**

R5237	N1922 or N2322 support and 28 spline pinion *\$130
R5237WR	N1922 or N2322 support and 28 spline pinion\$149
R5238	N1922 or N2322 support and 35 spline pinion *\$133
R5238WR	N1922 or N2322 support and 35 spline pinion\$155
R5236	N1917 or Ford Daytona support *\$100
R5236WR	N1917 or Ford Daytona support\$120
R5235	Stock Ford (non-Daytona) support *\$125
R5235WR	Stock Ford (non-Daytona) support\$135
R5237B	N1920 or N2323 support and 28 spline pinion*\$245
R5237BR	N1920 or N2323 support and 28 spline pinion\$258
R5238B	N1921 or N2323 support and 35 spline pinion*\$258

\* Pinion races not included

Center section gasket not included in above kits- Available separately

## **9" FORD INSTALLATION COMPONENTS**

	H1112G	Center section gasket\$6
2	H1111	Fel Pro high performance gasket\$15
	H1111S	Lube Locker center section gasket \$25
ŝ	D1586	Side bearings & races for 2.891" case\$45
	D1588	Side bearings & races for 3.062" case\$45
Ś	D1590	Side bearings & races for 3.250" case\$45
ŝ	D1592	Side bearings & races for 3.812" case\$60
	N1923	Pinion bearing kit for N1922 & N2322 (28 spline pinion) \$75
ļ	N1924	Pinion bearing kit for N1922 & N2322 (35 spline pinion) \$75
Ś	N1916	Pinion bearing kit for N1917 & N1914 \$42
	N1916PS	Pinion bearing kit for stock Ford support (non-Daytona) \$55
)	N2323S	Pinion bearing kit for N1920 & N2323 (28 spline pinion) \$175
5	N2323L	Pinion bearing kit for N1921 & N2323 (35 spline pinion) \$195

Pinion bearing kits contain front and rear bearing, two piece preload assembly, seal, and any required adapters/spacers (races not included)

	N1960	Pinion seal for 28 spline pinion	\$10
5	N1960L	Low drag pinion seal for 28 spline pinion	
	N1961	Pinion seal for 35 spline pinion	
ł	N1961L	Low drag pinion seal for 35 spline pinion	\$11
	N1922A	Pinion nut for 28 spline pinion	
2	N1922B	Pinion nut for 35 spline pinion	
2	N1930	Front pinion bearing for N1923 & Ultra case	\$16
	N1936	Front pinion bearing for N1924	\$15
	N1925H	Front pinion bearing for N1916	
	N1931	Front pinion race for N1922 & Ultra case	\$13
	N1914C	Front pinion race for N1917 & N1914	\$9
	N1938	Rear pinion bearing for N1923 & N1924	\$26
	N1925J	Rear pinion bearing for N1917 & N1914	
	N2001F	Rear pinion bearing for Ultra case	\$50
	N1920B	Rear pinion bearing for 28 spline ball bearing supports	\$110
	N1920BM	Rear pinion bearing for 35 spline ball bearing supports	\$150
	N1939	Rear pinion race for N1922	\$15
	N1914B	Rear pinion race for N1917 & N1914	\$13
	N2001E	Rear pinion race for Ultra case	\$24

N1926A	Pinion bearing adapter sleeve from N1923\$1	3
N1926D	Torrington washer from N1923\$8	
N1920G	Pinion bearing adapter sleeve from N2323S \$2	5
N1920D	.220" thick ball bearing spacer (35 spline pinion) \$1	
N1919	Two piece preload assembly from	
	N1921, N1923 & N1924 \$2	þ
N1920HK	Two piece preload assembly from N1920\$2	4
N1925	Two piece preload assembly from N1916 \$2	
N1924A	Solid preload spacer from N1924\$1	5
N1920F	Solid preload spacer to replace N1920HK \$1	5
N2001C	Solid preload spacer for Ultra case	
	using tapered bearings\$1	9
N1940	Tail bearing\$1	9
N1941	Tail bearing retainer\$3	
N1943R	T/B retainer plate w/screws for HD Pro & Ultra case \$13	2
N1962	Pinion depth shim kit\$1	5
N1962UC	Pinion depth shim kit\$1 Pinion depth shim kit for Ultra case\$4	5
N1958A	Pinion support o-ring\$3	
N1950B	Pinion support o-ring for Ultra case\$3	S,
N1965	Ring gear bolt kit (7/16"-20 x .875")	S,
D1565RK*	Ring gear bolt kit \$1	0
N1967	Ring gear bolt kit (7/16"-20 x .1.00")\$9	38
N1968	Ring gear bolt kit (7/16"-20 x 1.250")\$9	<b>K</b> .,
N1964	Ring gear bolt kit (1/2"-20 x .875")\$9	1
N1973	ARP bolt kit (7/16" for D2004 spool) \$6	5
N1975	ARP bolt kit (7/16" for Strange steel spools)\$3	1
N1976	ARP bolt kit (1/2" for Strange steel spools) \$4.	2
N1910H	Load bolt assembly for Ultra case\$3	
N1950HK	Pinion support spacer kit for Ultra case using 10" gear\$6	1
* 7/10/ 1	D1E12 D1E12 9 D1E0E aluminum anala	С.,

\* 7/16" for D1512, D1513 & D1565 aluminum spools

## US STRANGE, SPICER, RICHMOND, MOTIVE

#### 8.8" FORD STANDARD GEAR SETS & INSTALLATION KITS

Mustang V8 86-pres

Explorer 90-present

Ranger 4.0L 90-present

Bronco 83-96

• 10	) bolt	cover
------	--------	-------

- Ring gear = 8.8"
- Pinion shaft = 1.625"
- Pinion spline = 30
- 7/16"-20 RH bolt holes

RS07888308U	S US Gear	3.08 ratio	\$195	
RS07888331	Motive	3.31 ratio	\$257	
RS07888355U	S US Gear	3.55 ratio	\$195	
RS07888355	Motive	3.55 ratio	\$224	
RS07888373U	S US Gear	3.73 ratio	\$195	
RS07888373	Motive	3.73 ratio	\$224	
RSF888390US	US Gear	3.90 ratio	\$195	
RSF888390	Motive	3.90 ratio	\$263	
RS07888410U	S US Gear	4.10 ratio	\$195	
RS07888410	Motive	4.10 ratio	\$224	
RS07888430US	S US Gear	4.30 ratio	\$195	
RS07888430	Motive	4.30 ratio	\$240	
R5231**	Master installation kit		\$94	
R5230PS	8.8 solid adjustable or	eload snacer kit	\$22	

Side bearings and races.....

Mustang 2014-17

F150 83-present F250 83-90 E150 87-present E250 83-87

\$40

Falcon 64-70

Granada 75-79

Maverick 71-78

Monarch 74-80

Mustang 64-79

Thunderbird 87-96 Cougar 88-96 Mercury (full size) 82-present Ford (full size) 86-present

RS07888456US	US Gear	4.56 ratio*	\$195
RS07888456	Motive	4.56 ratio*	\$231
RS07888471US	US Gear	4.71 ratio*	\$234
RS07888488US	US Gear	4.88 ratio*	\$195
RS07888488	Motive	4.88 ratio*	\$242
RS07888513US	US Gear	5.13 ratio*	\$195
RS07888514	Motive	5.14 ratio*	\$271
RS07888571	Motive	5.71 ratio*	\$276

\* Posi units require modified cross pin

\*\* Will NOT fit Super 8.8 Mustang

#### 8.8" FORD SUPER IRS GEAR SETS

• Ring gear = 8.8"

D1582\*\*

- Pinion shaft = 2.001"
- Pinion spline = 30
- M12-1.25 bolt holes

RS07888373-15US	US Gear 3.73 ratio	\$256
RS07888391-15US	US Gear 3.91 ratio	\$256
RS07888411-15US	US Gear 4.11 ratio	\$256

Fits 3.31 & numerically higher carrier

#### **8" FORD STANDARD GEAR SETS & INSTALLATION KITS**

<ul> <li>10 bolt cover</li> <li>Ring gear = 8"</li> <li>Pinion shaft = 1.18</li> <li>Pinion spline = 25</li> <li>7/16"-20 RH bolt h</li> </ul>	
RS07880280US	US Gear
RS07880300US	US Gear
RS07880300	Motive
RS07880325US	US Gear
RS07880325	Motive
RS07880340	Motive
RS07880355US	US Gear

Bobcat 75-80 Comet 71-77 Cougar 67-79 Fairlane 64-74 Fairmont 75-79

 2.80 ratio
 \$249

 3.00 ratio
 \$238

 3.00 ratio
 \$252

 3.25 ratio
 \$238

 3.25 ratio
 \$261

 3.40 ratio
 \$273

 3.55 ratio
 \$221

Master installation kit	\$94
Basic installation kit	\$35

Pinto 71-80 Torino 71-74 Zephyr 78-79

RS07880355 RS07880380US RS07880380 RS07880411US RS07880411 RS07880462US RSF80462

US Gear	
Motive	
US Gear	
Motive	
US Gear	
Richmond	

Motive

3.55 ratio	. \$224
3.80 ratio	. \$221
3.80 ratio	. \$219
4.11 ratio	. \$221
4.11 ratio	. \$213
4.62 ratio	. \$221
4.62 ratio	. \$224

R5226 R5225

# US STRANGE, SPICER, RICHMOND, MOTIVE

GM 12 BOLT	CAR ST	ANDARD GEAR SETS	232223	XX.	SEE .	1 A A
<ul> <li>12 bolt cover</li> <li>Ring gear = 8.875'</li> <li>Pinion shaft = 1.62</li> <li>Pinion spline = 30</li> <li>3/8"-24 RH bolt ho</li> </ul>	Camaro 25" Chevy El Cam les Impala F85 68 Firebiro Grand I GTO 69 Le Mar	-70 1 67-72 Prix 70-72	3 5 4 5	series carrier- A	= .600" (OEM 2.76-0 = 1.00" (OEM 3.07-3 = 1.315" (OEM 4.11	3.73)
RS01888308US RS12B308 RS01888331US RS01888342US RS12B342 RS01888355US RS12B355 RS01888373US RS12B373 RS01888373-4US RS12B373X RS01888391US RS12B390 RS12B390X RS12B390X	US Gear Richmond US Gear Richmond US Gear Richmond US Gear Richmond US Gear Richmond US Gear Richmond Richmond	3.08 ratio       \$219         3.08 ratio       \$243         3.31 ratio       \$272         3.42 ratio       \$219         3.42 ratio       \$219         3.42 ratio       \$231         3.55 ratio       \$225         3.73 ratio*       \$219         3.73 ratio*       \$255         3.91 ratio *       \$255         3.90 ratio*       \$255         3.90 ratio*       \$255         3.90 ratio*       \$255	RS01888430US RS12B433 RS01888456US RS01888456 RS01888456XUS RS12B456X RS01888488US RS01888488 RS01888514US RS01888514 RS01888514 RS01888514 RS01888538US RS12B538 RS12B538 RS12B536 RS12B546	US Gear Richmond US Gear Motive US Gear Richmond US Gear Motive US Gear Richmond Richmond Richmond	4.30 ratio         4.33 ratio         4.56 ratio**         4.56 ratio*         5.6 ratio*         5.14 ratio#         5.38 ratio#         5.38 ratio#         5.86 ratio#         6.14 ratio#	\$349 \$219 \$219 \$219 \$224 \$219 \$189 \$219 \$204 \$204 \$219 \$204 \$219 \$255 \$272

\* For 3 series carrier fits 3.90 & numerically lower carrier

\*\* For 4 series carrier fits 4.11 & numerically higher carrier

# Differentials require special cross pin

#### GM 12 BOLT CAR DRAG RACE PRO GEARS - 4 SERIES

RP01988411US	US Gear	4.11 ratio.
RP01988411	Motive	4.11 ratio.
RP01988430US	US Gear	4.30 ratio.
RP01988430	Motive	4.30 ratio.
RP01988456US	US Gear	4.56 ratio.
RP01988456	Motive	4.56 ratio.
RP01988488US	US Gear	4.88 ratio.
RP01988488	Motive	4.88 ratio.
RP01988500US	US Gear	5.00 ratio.
RP01988514US	US Gear	5.14 ratio.

Richmond

Richmond

**US Gear** 

**US** Gear

RS12B410X

RS01888411US

RS01888411XUS

RS12B410

..... \$369 ..... \$353 ..... \$573 ..... \$358 ..... \$369 ..... \$324 ..... \$369 ..... \$323 ..... \$573 .....\$369

4.10 ratio\*\*.....\$204

4.10 ratio\*..... \$226

4.11 ratio\*\*.....\$219 4.11 ratio\*....\$219

RP01988514	Motive	5.14 ratio	\$324
RP01988538US	US Gear	5.38 ratio	\$369
RP12B538	Richmond	5.38 ratio	\$341
RP01988557US	US Gear	5.57 ratio	\$369
RP12B557	Richmond	5.57 ratio	\$362
RP01988586US	US Gear	5.86 ratio	\$369
RP12B586	Richmond	5.86 ratio	\$358
RP01988600US	US Strange	6.00 ratio	\$369
RP01988614US	US Strange	6.14 ratio	\$369

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# US STRANGE, SPICER, RICHMOND, MOTIVE

#### **GM 12 BOLT CAR INSTALLATION KITS & COMPONENTS**

R5211	Master installation kit \$94	R5214B
R5210	Basic installation kit \$32	R5214BA
R5215	Two piece pinion preload assembly \$32	D1582
R5211B	Rear pinion bearing \$16	R5211A
R5211C	Rear pinion race\$11	R5214C
N1925H	Front pinion bearing\$13	R5212
N1914C	Front pinion race\$9	H1106G
R5211D	Pinion seal \$11	

# 4B Pinion nut \$5 4BA Pinion nut washer \$3 2 Side bearings & races \$40 1A Side bearing shim kit \$24 4C Pinion depth shim kit \$6 2 Ring gear bolts with lock washers \$9 6G 12 bolt cover gasket \$9

#### **GM 12 BOLT TRUCK STANDARD GEAR SETS & INSTALLATION KIT**

• 12 bolt	cover
-----------	-------

- Ring gear = 8.875"
- Pinion shaft = 1.438"

RS01888308T	Richmond
RS01888342T	Richmond
RS01888373T	Richmond
RS01888373TX	Richmond
RS01888410T	Richmond
RS01888410TX	Richmond

	I
3.08 ratio	\$231
3.42 ratio	\$231
3.73 ratio**	\$215
3.73 ratio*	\$235
4.10 ratio**	\$217

4.10 ratio\*..... \$243

2010-2015 Camaro

• Pinion spline = 30

• 3/8"x24 RH bolt holes

K10 (15), C10 (15) 64-82 G20 & G25 69-81

888456T	Richmond	4.56 ratio**	\$220
888456TX	Richmond	4.56 ratio*	\$255
888488T	Richmond	4.88 ratio	\$238
888513T	Richmond	5.13 ratio	\$255
888538T	Richmond	5.38 ratio	\$255
1T	Master installat	ion kit	\$94
	888456TX 888488T 888513T 888538T	888456TX         Richmond           888488T         Richmond           888513T         Richmond           888513T         Richmond           888538T         Richmond	888456TX         Richmond         4.56 ratio*           888488T         Richmond         4.88 ratio           888513T         Richmond         5.13 ratio           888538T         Richmond         5.38 ratio

\* Fits 2.76-3.42 carrier

\*\* Fits 3.73 & numerically higher carrier

#### **GM 8.6 STANDARD GEAR SETS**

Ring	gear =	8.6″
D1 1	1 6	1.07

- Pinion shaft = 1.875"
  Pinion spline = 32
- 7/16" 20 LH bolt holes

RS01886308US	US Gear	3.08 ratio \$309
RS01886323US	US Gear	3.23 ratio \$309
RS01886373US	US Gear	3.73 ratio \$309
RSG86373	Richmond	3.73 ratio \$638
RS01886391	Motive	3.91 ratio \$333
RS01886410US	US Gear	4.10 ratio \$309
RS01886410	Motive	4.10 ratio \$333

# US STRANGE, SPICER, RICHMOND, MOTIVE

#### **GM 8.5 10 BOLT STANDARD GEAR SETS & INSTALLATION KITS**

<ul> <li>10 bolt cove</li> <li>Ring gear = 8</li> <li>Pinion shaft</li> <li>Pinion spline</li> <li>7/16"-20 LH</li> <li>OEM carriers</li> </ul>	8.5″ = 1.625″ = 30	2.73 & num. higher	77-87	71-pres. 79-pres. ) 71-pres. 77 71-74	Chevy (full) Chevy II, Nr Camaro 70- Cutlass 71- El Camino 7 Electra 73- Firebird/GTU Grandsport Grand Prix LaSabre 73	ova 70-79 81 77 1-77 78 0 70-81 73-84 71-77	Lemans 71-77 Monte Carlo 71-77 Olds (full) 71-89 Olds (Hurst) 85-88 Omega 73-75 & 77-79 Pontiac (full) 71-89 Roadster 71-74 Trans Am/ Z28 70-81 Ventura 71-77
RSG85308 RSG85323 RSG85342 RSG85373 RSG85390 RSG85410	Richmond Richmond Richmond Richmond Richmond Richmond	3.08 ratio 3.23 ratio 3.42 ratio 3.73 ratio 3.73 ratio 4.10 ratio	\$272 \$233 \$226 \$226	RS0188543 RSG85456 RSG85488 RS0188551 RS0188555 RS0188555	  3	Motive Richmond Richmond Motive Motive Motive Motive	4.30 ratio.       \$266         4.56 ratio.       \$226         4.88 ratio.       \$226         4.30 ratio.       \$226         5.38 ratio.       \$265         5.57 ratio.       \$265
R5205 R5205-SP		«it «it*					

\* For 8.5 using Strange 30 or 33 spline spools

R5204

R5202

D1583

D1585\*

#### GM 8.2 1964-1972 CHEVY 10 BOLT STANDARD GEAR SETS & INSTALLATION KITS

3.90 ratio.....\$294

4.11 ratio..... \$183 4.56 ratio.....\$228

<ul> <li>10 bolt cover</li> <li>Ring gear = 8.2"</li> <li>Pinion shaft = 1.438"</li> <li>Pinion spline = 25</li> <li>3/8"-24 RH bolt holes</li> </ul>		Camaro 67-69 Impala 65-72 Chevelle, Chevy II, Nova 64-72 Monte Carlo 70-72 Caprice 65-71	El Camino 64-71 Sprint 71-72 • All ratios fit 3.08 and higher carrier		
RSG82308 RS01882336 RS01882355 RS01882373	Richmond Motive Motive Motive	3.08 ratio\$281 3.36 ratio\$269 3.55 ratio\$269 3.73 ratio\$217	RS01882390 RS01882411 RS01882456	Motive Motive Motive	
R5217 R5217-SP R5200 D1585*	Master insta Basic install	llation kit\$94 llation kit *\$94 ation kit\$30 rings & races\$45			

Basic installation kit..... \$32

Ring gear spacer with bolts..... \$45

8.5 side bearings & races (for 28 spline).... \$45

8.5 side bearings & races...... \$45

\* For 8.2 using Strange 33 spline spool

#### GM BUICK / OLDS / PONTIAC 8.2 10 BOLT STANDARD GEAR SETS & INSTALLATION KITS

<ul> <li>10 bolt cover</li> </ul>	er
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- Ring gear = 8.2"
- Pinion shaft = 1.438"
- Pinion spline = 27
- 3/8"x20 RH bolt holes
- RS01882355B0P
   Motive

   RS01882373B0P
   Motive

   RS01882390B0P
   Motive

   RS01882411B0P
   Motive
- Buick (full) 64-71 Firebird 67-71
- Olds F85 64-71
- Pontiac (full) 64-71

3.55 ratio	\$304
3.73 ratio	\$320
3.90 ratio	\$326
4.11 ratio	\$323

Tempest GTO 64-71

• All gear sets are for 3.55 & numerically higher carriers

R52170P	
D1585*	

Master Installation Kit\*...... \$94 8.2 side bearings & races...... \$45

\* Installation kit will not fit Buick

#### 10 BOLT GM 7.5" / 7.625" STANDARD GEAR SETS & INSTALLATION KITS

• 10 bolt cover

- Ring gear = 7.5"
- Pinion shaft = 1.438"
- Pinion spline = 27
- 7/16"-20 RH bolt holes

R5213

OEM carriers: 3.08 & numerically lower (2-Series)
OEM carriers: 3.23 & numerically higher (3-Series)

S10 & S15 82-present Astro & Safari 85-present

Note: Gear sets will not fit Vega, Monza or Starfire

RSG75273	Richmond	2.73 ratio	\$267
RSG75308	Richmond	3.08 ratio	\$267
RSG75323	Richmond	3.23 ratio	\$248
RSG75342	Richmond	3.42 ratio*	\$243
RSG75342X	Richmond	3.42 ratio**	\$248
RSG75373	Richmond	3.73 ratio*	\$235
R5218	Master installation	kit	\$94
	RSG75308 RSG75323 RSG75342 RSG75342X RSG75342X RSG75373	RSG75308 Richmond RSG75323 Richmond RSG75342 Richmond RSG75342X Richmond RSG75373 Richmond	RSG75308         Richmond         3.08 ratio           RSG75323         Richmond         3.23 ratio           RSG75342         Richmond         3.42 ratio*           RSG75342X         Richmond         3.42 ratio*           RSG75373         Richmond         3.73 ratio*

Ring gear spacer with bolts...... \$45

	Buick (full) 77-85
	Camaro (Z28) 82-02
ć	Century 78-81
	Chevy (full) 77-96
	Cutlass 78-88
	Firebird (TA) 82-02
	Monte Carlo 78-88

RSG75373X	Richmond
RSG75410	Richmond
RSG75410X	Richmond
RSG75456	Richmond
RSG75456X	Richmond

Olds (full) 77-89 Omega 75-79 Pontiac (full) 77-89 Phoenix 78-81 Regal 78-83 Skylark 76-79 Ventura 78-81

nd	3.73 ratio**\$	243
nd	4.10 ratio*\$	233
nd	4.10 ratio**\$	243
nd	4.56 ratio*\$	233
nd	4 56 ratio**	269

\* Fits 3.23 & numerically higher carrier

\*\* Fits 3.08 & numerically lower carrier

#### GM 1963-1979 CORVETTE 8.4

- Ring gear = 8.32"
- Pinion shaft = 1.626"
- Pinion spline = 30
- 3/8"-24 RH bolt holes

RS01884308C US Ge	ar 3.08 ratio \$268	RSG84370C	Motive	3.70 ratio \$316
RSG84308C Richm	and 3.08 ratio \$345	RS01884373C	US Gear	3.73 ratio \$259
RS01884336C US Ge	ar 3.36 ratio \$268	RSG84390C	Richmond	3.90 ratio \$339
RSG84336C Richm	and 3.36 ratio \$345	RS01884411CX	US Gear	4.11 ratio* \$259
RS01884355C US Ge	ar 3.55 ratio \$259	RS01884433CX	US Gear	4.33 ratio* \$259
RSG84355C Motiv	3.55 ratio \$316	RS01884456CX	US Gear	4.56 ratio* \$259

\* Fits 3.90 & numerically lower carrier

#### GM 1980-1982 CORVETTE DANA 44

- Ring gear = 8.87"
- Pinion shaft = 1.626"
- Pinion spline = 29
- 3/8"-24 RH bolt holes

RS05844411	US Gear	4.11 ratio \$324
RS05844433	US Gear	4.33 ratio \$324
RS05844456	US Gear	4.56 ratio \$324
RS05844488	US Gear	4.88 ratio \$324

Fits 3.92 & numerically higher carrier

#### GM 1997-2013 CORVETTE

Excludes Grand Sport, Z06, ZR1, & A/T after 2004

• Ring gear = 8.25"

- Pinion shaft = 2.535"
- Pinion spline = 27

RS01885342C	Motive	3.42 ratio\$4	54
RS01885373C	Motive	3.73 ratio\$4	54
RS01885390C	Motive	3.90 ratio\$4	54
RS01885390CX	Motive	3.90 ratio*\$4	92
RS01885410C	Motive	4.10 ratio\$4	54
RS01885411CX	Motive	4.11 ratio*\$4	92

\* Fits 2.75 & numerically lower carrier

#### **GM 2014-2017 CORVETTE**

RS01888390C	Motive	3.90 ratio	\$849
RS01888410C	Motive	4.10 ratio	\$849

#### GM 1984-1996 CORVETTE DANA 36

- Ring gear = 7.75"
- Pinion shaft = 1.375"
- Pinion spline = 26
- 3/8"-24 RH bolt holes

RS05878354CUS	US Gear	3.54 ratio\$355
RS05878354CXUS	US Gear	3.54 ratio*\$370
RS05878373CUS	US Gear	3.73 ratio\$355
RS05878373CXUS	US Gear	3.73 ratio* \$370
RSD36354CX	Richmond	3.54 ratio\$360
RSD36375CX	Richmond	3.75 ratio\$413

\* Fits 2.73 & numerically lower carrier

**DIFFERENTIALS:** Driving down a straight road, the differential allows both axles to turn at the same speed. During a turn, the outer wheel needs to turn faster than the inner wheel since it has to cover a longer path in the same amount of time. If

not, the tire will scrub or hop around the corner. The differential compensates for this condition, by altering the RPM relationship between the two axle shafts. There are several designs that meet this requirement, but accomplish it in different ways.



**OPEN DIFFERENTIALS:** This is the most basic unit. It uses side gears (internally splined to the axles), engaged with spider gears (shaft mounted to the case). All the gears are in constant mesh. As long as the load remains the same, the gears will remain idle and both axles will turn at the same rate. Once an axle becomes harder to rotate, like the inside tire during a turn, it causes

the spider gears to walk around the held gear and drive the other side gear faster. While it may perform adequately for some applications, it is very sensitive to any variance in loads. If weight is shifted in the vehicle it can cause this condition to occur. An open differential in a performance car is undesirable since it will speedup the tire with the worst traction.



Strange Clutch

Auburn Cone

**CLUTCH SYSTEMS:** Similar in design as the open, but have a series of friction plates between the side gear and the case. Standard Duty units have them behind one side gear, Heavy Duty have them behind both. There is a spring or springs that apply tension between the case, clutch pack(s), and the side gears. By increasing friction

in this way, it requires more load variation before the clutches release and allow the gears to start rotating and speed-up the outer wheel. The number of plates, their material, and spring pressure will alter the release point. The clutch packs can be replaced when worn-out, but their replacement cost might be prohibitive.

**CONE SYSTEMS:** The case is machined with tapered bores and the side gears have a mating cone shape on their backside. There is a spring or springs that apply pressure to the side gears causing them to wedge into the case. It also uses spider gears and a cross shaft as above. The operation is much the same as the clutch system,

but utilizes tapered cones instead of clutch packs. Standard Duty units have smaller cones than the Heavy Duty. Larger cones have more surface area resulting in more holding power and longer life. These are nonrebuild-able and must be replaced when worn out.

**LOCKERS:** A Locker is a mechanical unit that is sensitive to torque application. It will lock (drive both wheels) under acceleration, or unlock (allow the axles to turn at different rates) during coast or deceleration. A very strong piece, since it doesn't use any clutches or cones that can wear out, which made it a good choice for it's original truck application. Since driver input mainly

determines whether the unit is locked or not, it can be very frustrating to a driver who is unfamiliar with the operation of the differential. Hard acceleration during a turn will cause the unit to lock and skid the tire. Between lock and unlock, a distinctive "clunk" can be heard. During a properly executed turn, clicking will be audible since locking teeth are allowed to jump each other inside the unit.



HELICAL GEAR UNIT: A helical gear differential is a mechanical unit that, unlike the Locker, offers smooth and progressive power transfer. If one tire begins to slip relative to the other tire, a separating force is created between the pinion gears and side gears. This generates internal friction which slows the spinning wheel and

**SPOOL:** A spool is one solid part that replaces all components of a differential. It will always turn both axles at the same speed with an equal amount of force. Due to the simplistic design, it is much stronger and lighter than any differential. It also allows the use of larger axles that can handle greater amounts of torque. This makes it the best sends power to the wheel with the most traction. These differentials are comparable to the strength of a Locker, but without it's downsides. The Strange 9" S-Trac, due to materials and design, exceed the strength limits of the Locker while offering all the benefits of a helical gear unit.

choice for Drag Racing, Drifting, and other forms of motorsports that require uninterrupted transfer of power to both wheels. Spools should never be considered for a street application. They are produced in forged steel, forged aluminum, and billet aluminum. Before purchasing an aluminum spool, contact Strange to discuss your particular application. Eaton Helical Truetrack



#### STRANGE 35 SPLINE S-TRAC FOR FORD 9" & FORD 8.8"

The Strange 35 Spline S-Trac is a helical gear differential that offers smooth and progressive power transfer. Its superior design and quality make it ideal for the most abusive Street/Track applications.

The torque biasing S-Trac is purely mechanical, which eliminates the need for clutches. It provides quiet operation while maximizing tire traction and vehicle acceleration. The forged steel case halves are heat treated and fully machined to minimize weight and provide a rigid mounting surface for the ring gear resulting in improved gear life. Internal gear pocket geometry is designed to minimize stress risers increasing component life.

The housing encapsulates precision manufactured gears, including 9310

steel pinion gears that provide exceptional strength. All internal gears, pinion and side gears, are vacuum heat treated to increase strength and also cold treated to extend service life while reducing wear. A dry film solid lubricant coating is applied to friction surfaces to minimize wear.

The S-Trac is recommended for full bodied street/track cars that run the 1/4 mile in the low 9 seconds or slower. For Drag Race Only vehicles, Strange Engineering strongly recommends using a spool. The seamless operation also makes it ideal for road racing, off-road and autocross. This premium unit carries a limited lifetime replacement warranty to the original purchaser.

- · Torque Biased Mechanical Clutchless Quiet Operation- Maximized Traction and Acceleration
- · Forged Steel Case Halves are Heat Treated and Fully Machined Providing a Light, Durable, and Rigid Unit
- · Internal Gear Pocket Geometry is Designed to Minimize Stress Risers for Increased Life
- Dry Film Solid Lubricant Coating Applied to Thrust Surfaces Minimizing wear
- 9310 Steel Pinion Gears for Ultimate Torque Carrying Capacity
- · Aggressive Gear Helix Angle Promotes Superior Torque Bias In Situations of Unequal Traction
- · All Internal Gears Made from 9310 Steel and Vacuum Heat Treated for Superior Strength
- · Gears are also Cold Treated to Optimize Fatigue Life and Reduce Wear



**LUBRICATION:** Always follow the recommendations of the differential manufacturer. In general, clutch style posi units or cone type systems require a quality petroleum based gear lube along with a bottle of friction modifier. For helical gear units, use the petroleum based fluid only. Always check before using any synthetic fluids as irreversible damage may occur. If using a spool, the choice is yours between petroleum and synthetic.

#### DANA 60 / STRANGE S60 / MOPAR 8.75" DIFFERENTIAL

D3537 * D3538 ** D3523 * D3533 * D3534 ** D3535 * D3536 **	Dana 60 / S60 Dana 60 / S60	Spicer Spicer Strange Eaton Eaton Eaton Eaton	Clutch Clutch Helical Gear Helical Gear Helical Gear Locker Locker	35 spline \$425 35 spline \$495 35 spline \$750 35 spline \$750 35 spline \$925 35 spline \$850 35 spline \$750
R542051	Mopar 8.75"	Auburn	H/D Cone	30 spline \$555
D3532T	Mopar 8.75"	Eaton	Helical Gear	30 spline \$650

\* 3 series carrier \*\* 5 series carrier

DIFFERENTIAL	
5 spline \$425	
5 spline \$495	
5 spline \$750	
5 spline \$750	
5 spline \$925	and the second s
5 spline \$850	
5 spline \$750	
0 spline \$555	
0 spline \$650	
	0 0 0
	Spicer

#### FORD 9" | FORD 8.8 | FORD 8" DIFFERENTIAL

N1974	Ford 9"	US Gear	Clutch	28 spline \$410
N1981	Ford 9"	Eaton	Helical Gear	28 spline \$563
R542036	Ford 9"	Auburn	H/D Cone	31 spline \$555
N1970H *	Ford 9"	Hoosier	Clutch	31 spline \$389
N1970F *	Ford 9"	Strange	Clutch	31 spline \$389
N1979	Ford 9"	Eaton	Helical Gear	31 spline \$563
N1972	Ford 9"	Eaton	Locker	31 spline \$625
N1980 *	Ford 9"	Strange	H/D Helical Gear	35 spline \$995
N1971T	Ford 9"	Eaton	Helical Gear	35 spline \$795
N1971	Ford 9"	Eaton	Locker	35 spline \$595
R542080	Ford 8.8	Auburn	H/D Cone	28 spline \$545
R542054	Ford 8.8	Auburn	H/D Cone	31 spline \$565
N1869	Ford 8.8	Eaton	H/D Clutch	31 spline \$495
N1869T	Ford 8.8	Eaton	Helical Gear	31 spline \$595
N1865	Ford 8.8	Eaton	Locker	31 spline \$745
N1882 **	Ford 8.8	Strange	Helical Gear	35 spline \$1,295
R542059	Ford 8"	Auburn	H/D Cone	28 spline \$555



Clutch

#### GM 12 BOLT CAR / 10 BOLT 8.5 / 10 BOLT 8.2 / 10 BOLT 7.5 / 7.625 DIFFERENTIAL

R5087 * R5086 ** R5087T * R5091 ***	12 bolt car 12 bolt car 12 bolt car 12 bolt car 12 bolt car	Eaton Eaton Eaton Yukon	H/D Clutch H/D Clutch Helical Gear H/D Clutch	30 spline \$480 30 spline \$480 30 spline \$498 33 spline \$625	
R542018	10 bolt 8.5	Auburn	Std Cone	28 spline \$467	
R542050	10 bolt 8.5	Auburn	H/D Cone	28 spline \$587	
R5085	10 bolt 8.5	Eaton	H/D Clutch	28 spline \$510	
R5085T	10 bolt 8.5	Eaton	Helical Gear	28 spline \$545	
R542022	10 bolt 8.5	Auburn	Std Cone	30 spline \$467	
R5083	10 bolt 8.5	Eaton	H/D Clutch	30 spline \$575	
R5083T	10 bolt 8.5	Eaton	Helical Gear	30 spline \$545	
R542061	Chevy 8.2	Auburn	H/D Cone	28 spline \$545	
R5084	Chevy 8.2	Eaton	H/D Clutch	28 spline \$560	
R542060	Buick / Olds / Pontiac 8.2	Auburn	H/D Cone	28 spline \$545	
R5084B0P	Buick / Olds / Pontiac 8.2	Eaton	H/D Clutch	28 spline \$560	
R542057	10 bolt 7.5	Auburn	Std Cone	26 spline \$467	
R542044	10 bolt 7.5	Auburn	H/D Cone	26 spline \$545	
R542040	10 bolt 7.5	Auburn	Std Cone	28 spline \$467	
R542046	10 bolt 7.5	Auburn	H/D Cone	28 spline \$545	



\* 3 series carrier

#### DANA 60 / STRANGE S60 / MOPAR 8.75" SPOOL

D1547 *	Dana 60 / S60	Strange	L/W Steel Spool	35 spline	13.30 lbs \$190	
D1548 **	Dana 60 / S60	Strange	L/W Steel Spool	35 spline	13.20 lbs \$190	
D1544 *	Dana 60 / S60	Strange	L/W Steel Spool	40 spline	12.05 lbs \$280	
D1546 **	Dana 60 / S60	Strange	L/W Steel Spool	40 spline	12.05 lbs \$280	
D1545 **	Dana 60 / S60	Strange	Aluminum Spool	40 spline	7.00 lbs \$516	
D1556	Mopar 8.75"	Strange	L/W Steel Spool	30 spline	8.95 lbs \$190	
D1557	Mopar 8.75"	Strange	L/W Steel Spool	35 spline	8.35 lbs \$190	
D1566	Mopar 8.75"	Strange	Aluminum Spool	35 spline	4.50 lbs \$399	
$X \times X \times X$					XXXX	

\* 3 series carrier

\*\* 5 series carrier

#### FORD 9" / FORD 8.8 SPOOL

D1515 D1512 D1516 D1513 D1553 D1554 D1555 * D1565 * D2000 * D2002 ** D2004 **	Ford 9" Ford 9"	Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange	Steel Spool Aluminum Spool Steel Spool Aluminum Spool L/W Steel Spool L/W Steel Spool Steel Spool L/W Steel Spool Aluminum Spool L/W Steel Spool L/W H/D Steel Spool H/D Aluminum Spool	28 spline 28 spline 31 spline 31 spline 33 spline 33 spline 35 spline 35 spline 40 spline 40 spline	9.80 lbs \$150 3.86 lbs \$150 9.30 lbs \$150 3.70 lbs \$150 8.50 lbs \$190 8.10 lbs \$190 9.12 lbs \$190 9.12 lbs \$150 8.20 lbs \$190 3.95 lbs \$350 7.95 lbs \$280 8.25 lbs \$280 4.85 lbs \$399
L6000J ***	Ford 9"	Strange	L/W H/D Steel Spool	36 spline	9.25 lbs \$385
D1558 D1560 D1567	Ford 8.8 Ford 8.8 Ford 8.8	Strange Strange Strange	L/W Steel Spool L/W Steel Spool L/W Steel Spool	31 spline 33 spline 35 spline	8.80 lbs \$190 8.45 lbs \$190 8.10 lbs \$190

\* For 3.250" bore aftermarket case

\*\* For 3.812" bore aftermarket case

\*\*\* For 4.00" bore case in Drop-out Live Axle using 3.20 and numerically higher gear

# GM 12 BOLT CAR / 10 BOLT 8.5 / 10 BOLT 8.2 / '57-'64 OLDS / STRANGE DROP-OUT SPOOL

	D1526	12 bolt car	Strange	Steel Spool	30 spline	10.85 lbs \$150	
	D1551	12 bolt car	Strange	L/W Steel Spool	30 spline	9.35 lbs \$190	
ł	D1540 *	12 bolt car	Strange	L/W Steel Spool	33 spline	8.85 lbs \$190	
	D1549 **	12 bolt car		L/W Steel Spool	33 spline	8.85 lbs \$190	
ł			Strange				
	D1030	12 bolt car	Strange	Aluminum Spool	33 spline	4.20 lbs \$399	
)	D1542 *	12 bolt car	Strange	L/W Steel Spool	35 spline	8.20 lbs \$190	
	D1541 **	12 bolt car	Strange	L/W Steel Spool	35 spline	8.20 lbs \$190	1
	D1522	10 bolt 8.5	Strange	Steel Spool	28 spline	10.24 lbs \$150	
)	D1523 ***	10 bolt 8.5	Strange	Steel Spool	30 spline	10.08 lbs \$150	4
	D1524 ***	10 bolt 8.5	Strange	Steel Spool	33 spline	9.68 lbs\$150	
ł	D1521 ***	10 bolt 8.2	Strange	Steel Spool	33 spline	9.46 lbs\$150	X
ł	DIFFO		<u>.</u>		05		ų,
	D1550	'57 - '64 Olds	Strange	L/W Steel Spool	35 spline	14.50 lbs \$219	
	D1535	12 blt Drop-out	Strange	L/W Steel Spool	35 spline	7.68 lbs \$317	

\* 3 series carrier \*\* 4 series carrier \*\*\* Requires D1585 side bearing kit \*\*\*\* 4 series - requires D1531 bearing kit Steel Spool

L/W Steel Spool

Aluminum Spool

69

69 20

Stock covers are stamped from thin sheet metal and are designed to close access to the housing internals while maintaining a leak-free seal. While this is sufficient under normal circumstances, increasing torque and horsepower can create unforeseen forces. The housing wants to flex at the opening where the cover attaches since it is the weakest section of the casting. The main caps are made of cast iron and are relatively thin and brittle. As forces mount and the case begins to deflect, ring and pinion life suffers as the contact pattern changes. Additional stress can lead to broken gear teeth as well as shattered main caps.

Chrome covers are purely for looks. Aluminum covers can be cosmetic, supportive, or both. Supportive covers are thick aluminum which reinforces the opening and makes the case much stiffer. They are also equipped with load bolts that contact the main caps increasing the threshold of when they would flex and break. The "ready for back-brace" LPW covers have additional bolt holes to accept their back-brace kit. This kit utilizes the cover to also support the housing tubes eliminating axle tube flex.

Main caps can be replaced with stronger alternatives, but will need to be fitted to the case. This process involves installing them in the housing so the bores can be measured. Since the bores will now be oversized, the main cap bases require milling to return the bore to the proper size. These caps are made of steel or aluminum. Quality aluminum main caps can be an advantage over steel as it is lighter and easier to machine. Under extreme conditions, such as a broken tooth caught between the ring and pinion, they can allow a little flex that might save the differential or spool from damage. These caps are not required for, and will not fit, a Strange S60 or Strange 12 bolt as they are already equipped with heavy duty main caps.



#### Dana 60 / S60

D3505 D3517	Spicer plain steel cover Strange S logo aluminum cover	Stock	\$50
	Black powder coat finish	Cosmetic	\$95
D3509	LPW HD aluminum cover Ready for back-brace	Supportive	\$169
D3515 H1122	LPW Axle tube back-brace kit Strange Dana 60 billet aluminum	Chrome moly tubing	\$120
	main caps with bolts	Requires machining	\$88



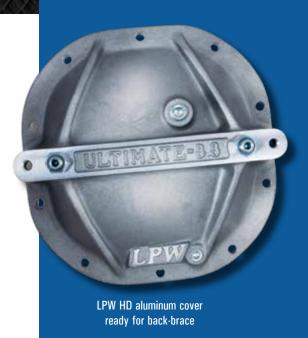
R5209LPW axle tube back-brace kitChrome moly tubing \$12H1124Strange Ford 8.8 billet aluminum	R5233 R5234		Supportive\$169 Supportive\$169
main caps with bolts Requires machining \$88		Strange Ford 8.8 billet aluminum	Chrome moly tubing \$120 Requires machining \$88





LPW HD aluminum cover

Strange S logo aluminum cover



#### **COVERS / BILLET ALUMINUM MAIN CAPS** Continued

XUM	2 BOLT		
R5199	Chrome cover for passenger car	Cosmetic	\$41
R5206	LPW HD car aluminum cover	Supportive	\$169
R5207	LPW HD car aluminum cover		
	Ready for back-brace	Supportive	\$169
R5221	LPW HD truck aluminum cover	80.80.80.80.80.80.80.80.80.80.80.80.80.8	
X X X	Ready for back-brace	Supportive	\$169
R5209	LPW axle tube back-brace kit	Chrome moly tubing	\$120
H1121	Strange 12 bolt car billet aluminum		$\mathcal{C}\mathcal{A}$
XXX	main caps with bolts	Requires machining	\$88

#### GM 10 BOLT

R5201 LPW HD 8.2 / 8.5 aluminum cover Supportive	\$169
R5201LPW HD 8.2 / 8.5 aluminum coverSupportiveR5203LPW HD 8.2 / 8.5 aluminum cover	\$169
Ready for back-brace Supportive	\$169
R5209LPW axle tube back-brace kitChrome moly tubingH1120Strange GM 8.5 billet aluminum	\$120
main caps with bolts Requires machining	\$88

#### LABOR

H1123

Fit and install Strange billet aluminum main caps Labor only- parts extra......\$90

XX

Strange Ford 8.8 Billet aluminum main caps with bolts

Chrome cover

Steel cover



# FORD 9" NODULAR IRON CASES

#### FACTORY CAST IRON VS NODULAR IRON

OEM Ford 9" cases were first made from cast iron only. This material was inexpensive, easy to pour, and offered acceptable strength for the time. Later, certain applications became more demanding and required a stronger case. More material was added in critical areas including additional webbing. Since cast iron tends to be brittle, a new material was also required. An agent was added to cast iron to create a stronger molecular bond. It made the case more ductile and less prone to breakage. The result was named "Nodular iron" and became the sought after case for heavy duty applications. During WW II, high strength materials were being diverted to military applications. While the casting design remained the same, the material reverted back to regular cast iron. These are often referred to as "WAR" cases. The factory main cap bore sizes are 2.891" and 3.062". The same casting was used for both cases, but some uses required bearings with a higher load capacity. There was a 9 3/8" case that has a 3.250" bore size. While its appearance is very similar to a Ford 9", and will bolt into the same housing, it was a short term item from Ford and parts are no longer available for it.

#### **STRANGE S-SERIES NODULAR IRON**

Strange's radial rib design significantly increases the rigidity of the case Strange Engineering's own blend of nodular iron contains more bonding additive which increases material strength by 8-10%. Coupled with strategical reinforcements to the pinion support area, tail bearing pocket, and main caps, it exceeds the strength of the factory nodular case. The 3.062" bore case will fit all differentials and spools from 28 to 33 spline. The 3.250" will fit 35 spline differentials and spools, and 40 spline spools requiring a 3.250" bore case. The pricing allows an individual to purchase a new upscale case at a price of a used and fatigued factory part.

#### **S-SERIES NODULAR IRON**

N2205 3.062" bore case N2206 3.250" bore case Nodular Iron main caps (27.2 lbs)...... \$249 Nodular Iron main caps (27.2 lbs)...... \$249



#### **STRANGE PRO SERIES NODULAR IRON**

The Pro Series case is designed for maximum rigidity and strength where weight is not a primary concern. It can be identified by the stout horizontal and vertical ribs. As with all Strange engineering cases, "Strange" is embossed near the main cap area. Strange Engineering's proprietary form of nodular iron is used, which is 8-10% stronger than typical nodular iron. The Pro Iron case design features reinforcements to two critical areas: the pinion support area and the tail bearing pocket. The main caps are chrome moly and utilize high strength adjuster nuts. The 3.062" bore case will fit all differentials and spools from 28 to 33 spline. The 3.250" will fit 35 spline differentials and spools, and 40 spline spools requiring a 3.250" bore case.

#### **PRO SERIES NODULAR IRON**

N1905	3.062" bore case	Chrome moly main caps
N1906	3.250" bore case	Chrome moly main caps

31.5 lbs..... \$329 31.2 lbs..... \$329 EF O

#### STRANGE LIGHTWEIGHT ALUMINUM CASE

Lightweight aluminum cases are ideal for vehicles where unsprung weight is extremely critical and gear life is not a major concern. Dimensionally very similar to the Pro Iron case, but uses high tensile aluminum alloy and forged aluminum main caps. Since the case is responsible for holding together the gear set and spool, the application should be carefully considered before a purchasing this case. Typical Drag Race applications are Super Comp Dragsters, Altereds, and very lightweight cars. This case is not recommended for Street or Street/Strip. A Strange Engineering associate will be happy to assist you with your decision. Available bore sizes are 3.062" and 3.250".

#### **LIGHTWEIGHT CASE**

N1901	3.062" bore case	Aluminum
N1901P	3.062" bore case	Polished aluminum
N1904	3.250" bore case	Aluminum
N1904P	3.250" bore case	Polished aluminum

\$380
\$595
\$380
\$595

#### **STRANGE HD PRO ALUMINUM CASE**

The HD Pro aluminum case is designed for Drag Race applications and for the most abusive Hi-Performance street/strip applications. As with all Strange aluminum cases, it is crafted from 206-T4 heat treated aluminum. This premium aluminum has a 12% higher yield strength and a 32% higher tensile strength compared to commonly used 356-T6 aluminum. The billet aluminum pinion support has a unique oil channel that is machined 360° into the support to maximize oil flow to the pinion bearings as well as a large slot in the front to further boost oil circulation. The support is in contact with the bore of the case in two locations as opposed to one as found in normal cases. This additional contact area holds the pinion shaft much more securely resulting in better bearing and gear life. The tail bearing is oversized to handle more load and greater RPM than a stock tail bearing. Billet aluminum main caps encapsulate chrome-moly studs, provide the utmost support for the carrier bearings and significantly reduce ring gear deflection. This case is most commonly purchased in kit form due to some of the unique components. The kit contains the case, pinion support with races, support bolts and o-ring, depth shims, tail bearing and retainer plate. The remainder of the parts necessary for a complete unit are readily available. The kits are available in 3.062", 3.250", and 3.812" bore sizes, and for tapered or ball bearing pinion support. Bearings are not included in these kits other than the tail bearing. This case will accept 9" and 9 1/2" gear sets.



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#### **HD PRO CASE**

N2300	3.062" bore case	Aluminum HD Pro	Case only (6.8 lbs)\$540
N2300P	3.062" bore case	Polished Alum HD Pro	Polished Case only \$745
N2303	3.250" bore case	Aluminum HD Pro	Case only (16.8 lbs) \$540
N2303P	3.250" bore case	Polished Alum HD Pro	Polished Case only \$745
N2307	3.812" bore case	Aluminum HD Pro	Case only (15.7 lbs) \$540

# STRANGE ALUMINUM ULTRA CASE

The Ultra Case is the strongest case and pinion support combination offered for all out Drag Racing applications. The case is manufactured from 206-T4 and utilizes four chrome-moly studs encapsulated by billet aluminum main caps, allowing for shorter and stronger studs. The tail bearing is larger than factory, which can withstand greater rpm and is secured by a special retainer plate. The pinion support is retained by 12 bolts and a features a unique design which provides strength and optimizes bearing lubrication. It places both pinion bearings within the case and has a much tighter fit to the case bore. This firmly holds the pinion shaft in proper alignment with the ring gear, providing maximum gear life while avoiding gear bind. For Funny Car applications, a pinion support with a built-in coupler cover is offered as an option. The case has a provision to accept a load bolt (N1910) which helps support the ring gear during tire shake. It will accept 9", 9 1/2", and 10" gear sets. 10" gear sets require N1950HK spacer and bolt kit. The cases are packaged in kit form due to the unique components. The kit contains the case, pinion support, bolts, shims, bearings, races, spacers, o-ring, and seal. To build a complete center section, add a spool, gear set, and yoke or coupler. The case packages are available in 3.250", 3.812", and 4.00" bore sizes and are offered with either a tapered rear pinion bearing or a angular contact ball style bearing.



#### **ULTRA CASE**

N1902	3.250" bore case	Ultra Case only (21.4 lbs)	\$660
N1912	3.812" bore case	Ultra Case only (20.2 lbs)	\$660
N1912PS	3.812" bore case	Ultra Lightened For Pro Stock Case only-	
		For P/S ball bearing support (18.4 lbs)	\$710
N1913	4.000" bore case	Ultra Case only- For L6000 Live Axle (20.1 lbs)	

#### STRANGE 12 BOLT DROP-OUT ALUMINUM CASE

The 12 bolt Drop-out aluminum case is designed to bolt into a Ford 9" housing and utilize a Chevy 12 bolt ring and pinion. It allows the builder to create a lightweight sheet metal housing, have the convenience of a center section, and benefit from the efficiency of a 12 bolt gear set. The application is a very light Drag Race Only vehicle that does not require the strength of a Ford 9" gear set, but can benefit from its lightweight housing. Since a 12 bolt gear is 2.3% more efficient than a comparable 9", horsepower loss is reduced resulting in improved top end performance. This case should not be used outside its application as increasing loads beyond its design will cause case deflection resulting in gear bind. Approaching gear bind will cause decreasing efficiency and poor gear life. It requires a Strange spool specifically designed for this unit, and may also require different axles. Consult a Strange Engineering representative to discuss your application.



N1200	3.062" bore case	For Strange 30 or 33 spline spool (15.8 lbs)	\$627
N1202	3.250" bore case	For Strange D1535 / D1537 35 spline spool (15.7 lbs)	\$627

- 7075-T73 AEROSPACE ALUMINUM Superior strength & high stress resistance
- VIBRATORY STRESS RELIEVED Utilizing sub-harmonic vibrational energy
- SOLUTION HEAT TREATED Ensures consistent mechanical properties
- .650" THICK MOUNTING FLANGE Provides a rigid foundation
- RAISED CROSS RIB DESIGN
   Increases stiffness throughout unit
- WRAP AROUND DESIGN MAIN CAPS
   Enhances main cap strength and rigidity
- AISI 8740 STEEL BULLET END MAIN STUDS 38% higher yield strength than typical chrome moly Allows increased clamping force on main caps
- MASSIVE WALL SECTIONS IN TAIL BEARING AREA
   Provides exceptional tail bearing support
- OIL SCAVENGING CHANNEL Enhanced pinion bearing lubrication
- EXTENSIVE LIGHTENING ON CASE AND SUPPORT Removes 1.5 lbs over comparable Ultra Case
- ARP 12 POINT PINION SUPPORT BOLTS
   Secure pinion support retention
- ACCEPTS 10" DEVELOPMENT GEAR SET True finished ring gear 0.D. 9.625"
- TYPE II ANODIZED FOR CORROSION PROTECTION
- EXTRA WIDE TAIL BEARING Increased load capacity
- BOLT-ON TAIL BEARING RETAINER
- JACK SCREW PROVISIONS
- DEDICATED 10" PINION SUPPORT AVAILABLE Eliminates pinion support spacer
- OPTIONAL LOAD BOLT
- OPTIONAL BILLET SPEED SENSOR HOLDER

#### FORD 9" BILLET ALUMINUM CASE PACKAGES

**The Billet Case** and billet pinion support offer an unmatched strength to weight combination for the most brutal Drag Racing applications. The goal was to manufacture the finest billet case- regardless of material and process costs- and we have achieved that. The case is manufactured from 7075-T73 aerospace aluminum that offers superior strength and is highly resistant to stress corrosion. After initial rough machining, it is vibratory stress relieved utilizing sub-harmonic vibrational energy. This process stabilizes the heavily machined aluminum before proceeding. Afterwards, it is solution heat treated and artificially overaged. This ensures consistent mechanical properties throughout the material. The .650" thick mounting flange coupled with the raised cross rib design provides a solid structure to maintain proper alignment of the ring and pinion. Unique wrap around

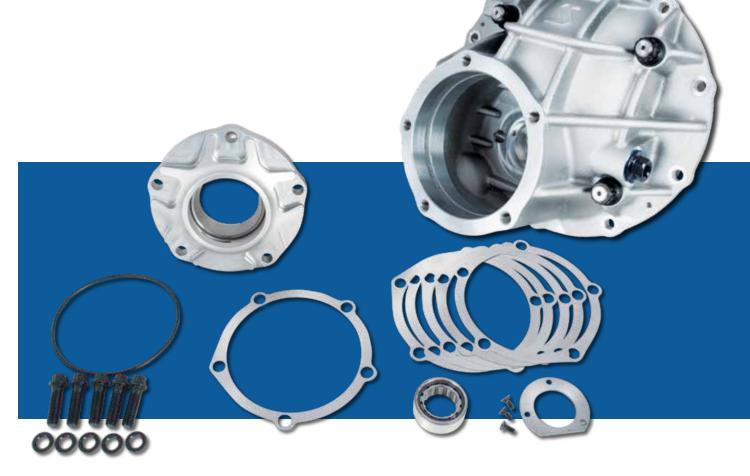
**The Billet Pinion Support** is manufactured from 2024-T351 aluminum and retained by 12 ARP twelve point bolts. The support features a unique design which optimizes strength, weight reduction, and bearing lubrication. It places both pinion bearings within the case and has a much tighter fit to the case bore. This firmly holds the pinion shaft in proper

style main caps enhance strength and stiffness. Each cap is retained by four AISI 8740 steel bullet end studs which have 38% higher yield strength than typical chrome moly. This allows for an increase in clamping loads further enhancing cap rigidity. The tail bearing area has massive wall sections to firmly retain the oversized tail bearing, which can withstand greater loads, and is secured by a special retainer plate. A large oil scavenging channel directs additional lubrication to the pinion support. The case has a provision to accept a load bolt which helps support the ring gear during tire shake. The case will accept 9" , 9 1/2", and 10" gear sets. Integrated jack screws facilitate center section removal from the rear end housing.

alignment with the ring gear, providing maximum gear life while avoiding gear bind. The 10" gear sets require a pinion support designed specifically for those gears. This support eliminates the need for a spacer between the support and the case, further contributing to the integrity of the assembly.



P5381LT P5381LT-10	3.812" case Case & 9" / 9.5" support package with tapered pinion bearings using 35 spline pinion 3.812" case Case & 10" support package with tapered pinion bearings using 35 spline pinion	
P5381LB P5381LB-10	3.812" case Case & 9" / 9.5" support package with ball pinion bearing using 35 spline pinion 3.812" case Case & 10" support package with ball pinion bearing using 35 spline pinion	



#### **HD PRO CASE KITS**

P3200	3.062" case	Case & support kit for tapered pinion bearing \$684
P3203	3.250" case	Case & support kit for tapered pinion bearing \$684
P3207	3.812" case	Case & support kit for tapered pinion bearing \$684
P3200BB	3.062" case	Case & support kit for ball pinion bearing \$699
P3203BB	3.250" case	Case & support kit for ball pinion bearing \$699
P3207BB	3.812" case	Case & support kit for ball pinion bearing \$699

Kit includes case, pinion support with races, o-ring, support bolts, depth shims, tail bearing and retainer

### **HD PRO COMPLETION KITS**

R3200ST	Completion kit for tapered bearing support using 28 spline pinion
R3200SB	Completion kit for ball bearing support using 28 spline pinion
R3200LB	Completion kit for ball bearing support using 35 spline pinion

Kit includes pinion bearings, preload assembly, pinion seal & nut, side bearings & races, and ring gear bolts

Case Kit with Completion Kit provide all necessary parts to build a complete center section less spool, gear set, and yoke or coupler



#### **ULTRA CASE PACKAGES**

P3250ST P3250LT	3.250" case Case & support package with tapered pinion bearings using 28 spline pinion
P3250SB P3250LB	3.250" case Lightened case & support package with ball pinion bearing using 28 spline pinion
P3812ST P3812LT P3812LT-10 P3812LTC*	3.812" caseCase & support package with tapered pinion bearings using 28 spline pinion
P3812SBHD P3812LBHD	3.812" caseCase & support package with ball pinion bearing using 28 spline pinion
P3812SB P3812LB	3.812" caseLightened case & support package with ball pinion bearing using 28 spline pinion
P400LT P400LTC*	4.000" caseCase & support package with tapered pinion bearings using 35 spline pinion 4.000" caseCase & CC support package with tapered pinion bearings using 35 spline pinion

Package includes all necessary components to build a complete center section less spool, gear set, and yoke or coupler

\* Pinion support with built-in coupler cover



# FORD DAYTONA, STRANGE TAPERED & BALL BEARING

#### FORD DAYTONA PINION SUPPORTS

**N1914:** Ford Daytona pinion supports are an option to replace the stock OEM unit. The stock support is made of nodular iron and uses the same size bearing front and rear. The N1914 is also constructed from cast iron, but

uses a larger rear pinion bearing for increased load capacity. The support is supplied with front and rear Timken races installed. O-ring and bearing & seal kit are available separately.

#### **STRANGE TAPERED BEARING PINION SUPPORTS**

**N1917:** Designed for heavy duty use in street / track applications that require a large rear pinion bearing, offering increased load capacity, while allowing greater oil flow for continuous operation. Constructed from billet aluminum, it will not shatter or crack like cast iron and is much lighter. This support will accept 28 spline pinion gears and comes

**N1922:** Heavy duty Drag Race pinion support. It uses even larger front and rear pinion bearings than the Daytona or N1917, further increasing load capabilities to suit the most demanding requirements. Manufactured from billet aluminum, it offers better grain flow than billet aluminum supports. Oil channels have been reduced to allow more material around the race sections to maximize rigidity. It can accept

**N2322:** Designed specifically for the HD Pro aluminum case, it will not fit any other cases. The fresh design of this support make it ideal for use in street, track, and Drag Race applications. It utilizes the same oversized bearings as the N1922, but the oil flow is increased for continuous use. The pinion seal is retained by a snap ring ensuring it will not come loose under extreme conditions. Constructed from heat

in a black anodized finish. It can also be ordered in polished aluminum. The support is supplied with front and rear Timken races installed, bolts, washers, and an o-ring. Bearing & seal kit is available separately.

either 28 or 35 spline pinion gears, and comes in a clear anodized finish. A polished support is also available. The support is supplied with front and rear Timken races installed, bolts, washers, and an o-ring. Bearing & seal kit is available separately. Manufactured from 2024-T4 billet aluminum.

treated billet aluminum, ultimate strength is achieved while weight is kept to a minimum. This support can accept either 28 or 35 spline pinion gears, and comes in a clear anodized finish. It can also be ordered in polished aluminum. The support is supplied with front and rear Timken races installed, bolts, washers, snap ring, and o-ring. Bearing & seal kits are available separately.

#### **STRANGE BALL BEARING PINION SUPPORTS**

Ball bearing supports use an angular contact ball bearing to replace the rear pinion bearing. This bearing offers reduced rolling resistance and requires less preload than a tapered bearing, decreasing the forces necessary to

**N1920 / N1921:** Can be used in any Ford 9" case, iron or aluminum, except for HD Pro and Ultra cases. They are manufactured from heat treated 2024 billet aluminum, offering strength and ductility, while remaining lightweight. The N1920 is designed for a 28 spline pinion gear, and the

**N2323:** Support designed for the HD Pro aluminum case. Machined from heat treated T6061 billet aluminum ensuring maximum strength and reduced weight. This support can accept 28 or 35 spline pinion gears with

rotate the pinion gear. Pinion supports must be specifically designed for ball bearing use since tapered bearing supports are not adaptable.

N1921 for a 35 spline. Both supports come complete with Timken race installed, front tapered bearing, rear angular contact ball bearing, adjustable preload assembly, low drag pinion seal, bolts, and o-ring.

the proper bearing & seal kit. It is supplied with a Timken front race installed, pinion support bolts & washers, and o-ring. Bearing & seal kit is available separately.

# FORD DAYTONA, STRANGE TAPERED & BALL BEARING

#### **TAPERED BEARING SUPPORTS**

ALC: NOT A		
N1914	Daytona- Nodular Iron	
N1917	Billet Aluminum	
N1917P	Billet Aluminum- Polished	
N1922	Billet Aluminum	
N1922P	Billet Aluminum- Polished	
N2322	HD Pro Aluminum	
N2322P	HD Pro Aluminum- Polished	

All supports have Timken races installed. Supports include o-ring except for Daytona.





#### **BALL BEARING SUPPORTS**

N1920*	Aluminum Support Package
N1921*	Aluminum Support Package
N2323	HD Pro Aluminum with race

Drag Race- For 28 spline pinion...... \$295 Drag Race- For 35 spline pinion...... \$295 Drag Race- For 28 or 35 spline....... \$180

N1917

* Bearing & Seal	Kit included		
RACES / O	RING		
N1914C	Front pinion race	For N1914 & N1917	\$9 🛛 🥥 🦲
N1914B	Rear pinion race	For N1914 & N1917	
N1931	Front pinion race	For N1922, N2322, & N2323	\$13
N1939	Rear pinion race	For N1922 & N2322	\$15
N1958A	O-ring	For all supports listed above	\$3 N1921

#### **BEARING & SEAL KITS \***

N1916	For N1914 & N1917	Using 28 spline pinionBearings, seal, & 2 pc preload spacer	\$42
N1923	For N1922 & N2322	Using 28 spline pinionBearings, seal, 2 pc preload spacer, adapter sleeve & washer	\$75
N1924	For N1922 & N2322	Using 35 spline pinionBearings, seal, 2 pc preload spacer, & solid preload spacer	\$75
N2323S	For N1920 & N2323	Using 28 spline pinionBearings, seal, 2 pc preload spacer, & adapter sleeve	\$175
N2323L	For N1921 & N2323	Using 35 spline pinionBearings, seal, 2 pc preload spacer, & washer	\$195

\* Races and o-ring are not included in Bearing & Seal Kits.



### 9" IRON S-SERIES

Our highly trained technicians are dedicated to provide the highest quality assembly that customers have grown to expect from Strange Engineering. Timken bearings and races are used throughout. The Gear set is hand massaged to remove sharp corners and burrs to provide quiet operation. Contact patterns are check and readjusted until satisfactory. Any questionable gear sets are returned to the manufacturer for evaluation and the set-up process begins again. We believe the extra time is well spent because while some may advertise the fastest assembly time, we would rather deliver the best in quality and workmanship.

#### **S-SERIES CASE WITH DIFFERENTIAL**

**PRF130:** The S-Series nodular iron case is a stout foundation for any Street / Track application. The package contains the S-series iron case, Ford cast iron Daytona pinion support, clutch style posi unit, Standard

gear, and S-series 1350 yoke with u-bolts. Upgrades to the differential, a billet aluminum pinion support, and chrome moly yoke are available.

#### **S-SERIES CASE WITH SPOOL**

**PRF135:** The S-Series nodular iron case begins the basis for Track and many Drag Race applications. The package contains the S-series iron case, Ford cast iron Daytona pinion support, 28 to 35 spline spool, Standard gear, and S-series 1350 yoke with u-bolts. Upgrades are available to a billet aluminum pinion support and chrome moly yoke.

PRF130			inion support: N1914 / Clutch style 28-31 spline posi unit 350 yoke: U2203 / U-bolts	\$1,305
$\langle \rangle \rangle \rangle$	Upgrades:	OPRF16	Upgrade to Strange black billet aluminum support- N1917	Add \$29
$\langle \rangle \langle \rangle$		OPRF09	Upgrade to Eaton 28 or 31 spline Truetrack	Add \$200
XX	$X \times X \times X$	OPRF17	Upgrade to Eaton 28, 31, or 35 spline Detroit Locker	Add \$165
* 7 7	1111	OPRF11	Upgrade to Eaton 35 spline Truetrack	Add \$400
		OPRF10	Upgrade to Strange 35 spline S-Trac- N1980	Add \$510
XX		OPRF07	Upgrade to Chrome moly pinion yoke- U1603	Add \$35
$\langle \mathcal{A} \rangle$		OPRF37	Upgrade to HD cap kit for rear end yoke	. Add \$73
PRF135			inion support- N1914 / 28-35 spline spool	
	Standard gear	set / S-Series 1	350 yoke- U2203 / U-bolts	\$1,144
$\langle \chi \chi \rangle$	Upgrades:	OPRF16	Upgrade to Strange black billet aluminum support· N1917	Add \$29
	13.1.1	OPRF07	Upgrade to Chrome moly pinion yoke- U1603	Add \$35
A.7.5	AAAA	OPRF37	Upgrade to HD cap kit for rear end yoke	Add \$73



#### 9" PRO IRON

Our highly trained technicians are dedicated to provide the highest quality assembly that customers have grown to expect from Strange Engineering. Timken bearings and races are used throughout. The Gear set is hand massaged to remove sharp corners and burrs to provide quiet operation. Contact patterns are check and readjusted until satisfactory. Any questionable gear sets are returned to the manufacturer for evaluation and the set-up process begins again. We believe the extra time is well spent because while some may advertise the fastest assembly time, we would rather deliver the best in quality and workmanship.

#### **PRO IRON CASE WITH DIFFERENTIAL**

**PRF120:** The Pro Iron nodular case is the strongest iron case available. This package contains the Pro Iron case, Ford cast iron Daytona pinion support, clutch style posi unit, Standard gear, and S-series 1350 yoke with u-bolts. Upgrades to the differential, a Strange billet aluminum pinion support, and chrome moly yoke are available.

#### **PRO IRON CASE WITH SPOOL & YOKE**

**PRF105:** The Pro Iron is the ultimate in strength in a nodular iron case. This package contains the Pro Iron case, Strange billet aluminum support (N1922), 31 to 35 spline lightweight steel spool, Standard

**PRF115:** The Pro Iron nodular case is the foundation for this solid unit. This package contains the Pro Iron case, Strange billet aluminum support (N1922), 28 to 35 spline lightweight steel spool, 28 spline Pro gear, and chrome moly 1350 yoke with u-bolts. Upgrades are available

gear, and chrome moly 1350 yoke with u-bolts. Upgrade is available to a 40 spline L/W steel spool. Options include a ball bearing pinion support, lightened ring gear, MicroBlue service, and computer pick-up collar.

to a 35 spline Pro gear and 40 spline L/W steel spool. Options include a ball bearing pinion support, lightened ring gear, MicroBlue service, and computer pick-up collar.

#### **PRO IRON CASE WITH SPOOL & COUPLER**

**PRF100:** The Pro Iron nodular case surpasses the requirements for heavy duty iron case. This package contains the Pro Iron case, Strange billet aluminum support (N1922), 31 to 35 spline lightweight steel spool,

**PRF110:** The Pro Iron nodular case is the basis for this formidable unit. This package contains the Pro Iron case, Strange billet aluminum support (N1922), 28 to 35 spline lightweight steel spool, 28 spline Pro gear , and

Standard gear, and female coupler. Upgrade is available to a 40 spline L/W steel spool. Options include a ball bearing pinion support, lightened ring gear, MicroBlue service, and computer pick-up collar.

female coupler. Upgrades are available to a 35 spline Pro gear and 40 spline L/W steel spool. Options include a ball bearing pinion support, lightened ring gear, MicroBlue service, and computer pick-up collar.

# 9" PRO IRON

					0-110	1
	PRF120		/ Iron Daytona support- N1914 / Clutch style 28 r set / S-Series 1350 yoke- U2203 / U-bolts		<b>Š</b>	79
	Upgrades:	OPRF09 OPRF17 OPRF11 OPRF10	Upgrade to Strange black billet aluminum suppor Upgrade to Eaton 28 or 31 spline Truetrack Upgrade to Eaton 28, 31, or 35 spline Detroit Lo Upgrade to Eaton 35 spline Truetrack Upgrade to Strange 35 spline S-Trac- N1980 Upgrade to Chrome moly pinion yoke- U1603	Add \$200 ocker Add \$165 Add \$400 Add \$510	ALL ST	HO
	PRF105	L/W steel spo	/ Billet aluminum support- N1922 / 31-35 spline ol Standard gear set / Chrome moly 1350 yoke- lts \$1,298	Chip.		
	Upgrades:	OPRF01	Upgrade to 40 spline spool	Add \$73		
X	PRF115		/ Billet aluminum support- N1922 / 31-35 spline gear / Chrome moly 1350 yoke- U1603 / U-bolts			
Ş.	Upgrades:		Upgrade to 35 spline Pro gear Upgrade to 40 spline spool			
(C. 92	PRF100		/ Billet aluminum support- N1922 / 31-35 spline r set / Female coupler			1 TO
	Upgrades:	OPRF01	Upgrade to 40 spline spool	Add \$73	and the second	
	PRF110		/ Billet aluminum support- N1922 / 31-35 spline gear / Female coupler			
	Upgrades:		Upgrade to 35 spline Pro gear Upgrade to 40 spline spool			2031
	Options for all packag above	OPRF03	<ul> <li>4 magnet pick-up collar for 28 spline pinion</li> <li>8 magnet pick-up collar for 28 spline pinion</li> <li>1 magnet pick-up collar for 35 spline pinion</li> <li>2 magnet pick-up collar for 35 spline pinion</li> <li>4 magnet pick-up collar for 35 spline pinion</li> <li>8 magnet pick-up collar for 35 spline pinion</li> </ul>	Add \$400 Add \$100 Add \$73 Add \$48 Add \$52 Add \$60 Add \$129 Add \$52 Add \$52 Add \$52 Add \$52 Add \$52 Add \$52 Add \$52 Add \$52		

# 9" LIGHTWEIGHT ALUMINUM WITH YOKE

Our highly trained technicians are dedicated to provide the highest quality assembly that customers have grown to expect from Strange Engineering. Timken bearings and races are used throughout. The Gear set is hand massaged to remove sharp corners and burrs to provide quiet operation. Contact patterns are check and readjusted until satisfactory. Any questionable gear sets are returned to the manufacturer for evaluation and the set-up process begins again. We believe the extra time is well spent because while some may advertise the fastest assembly time, we would rather deliver the best in quality and workmanship.

#### LIGHTWEIGHT ALUMINUM CASE WITH DIFFERENTIAL

**PRF170:** The Lightweight Aluminum case with a posi unit can be used where weight savings or cosmetic appearance is important and shock loads are minimal. Popular applications include lightweight street rods and show cars. It should not be used in Street / Strip applications as deflection can occur causing noise and poor gear life. This package contains the Lightweight aluminum case, Ford cast iron Daytona pinion support, clutch style posi unit, Standard gear, and S-series 1350 yoke with u-bolts.

Upgrades are available to the differential, a Strange billet aluminum pinion support (N1917), and chrome moly yoke. The PRF170P contains an upgraded pinion support, and polished case & support. The OPRF35S option to chromed chrome moly yoke is common for the PRF170P. For more demanding applications, consider using the HD Pro aluminum center section.

#### LIGHTWEIGHT ALUMINUM CASE WITH SPOOL & YOKE

**PRF155:** The Lightweight Aluminum case with a lightened steel spool and Standard gear set can be used where weight is critical, the vehicle is light, and impact loads are relatively low. Drag Race applications include 4-link Super Comp Dragsters, Altereds, Comp, and lightweight door cars. This package contains the Lightweight aluminum case, Strange billet aluminum pinion support (N1922), lightweight steel spool, Standard gear, and chrome moly 1350 yoke with u-bolts. The

**PRF165:** The Lightweight Aluminum case with a lightened steel spool and 28 spline Pro gear set can be used where weight reduction is more of a factor, and gear life might be less important. Popular Drag Race applications include 4-link Super Comp Dragsters, Altereds, Comp, and lightweight door cars. This package contains the Lightweight aluminum case, Strange billet aluminum pinion support (N1922), lightweight steel spool, 28 spline Pro gear, and chrome moly 1350 yoke with PRF155P contains a polished case and support. Upgrades available are a 40 spline L/W steel spool or 35 spline aluminum spool. Options include a ball bearing pinion support, lightened ring gear, MicroBlue service, computer pick-up collar polished case and support, polished and chromed yoke, and aluminum yoke. Higher horsepower vehicles, especially those using a throttle stop, will opt for the PRF165 which contains a Pro gear. It is also very common to upgrade to a 40 spline L/W steel spool.

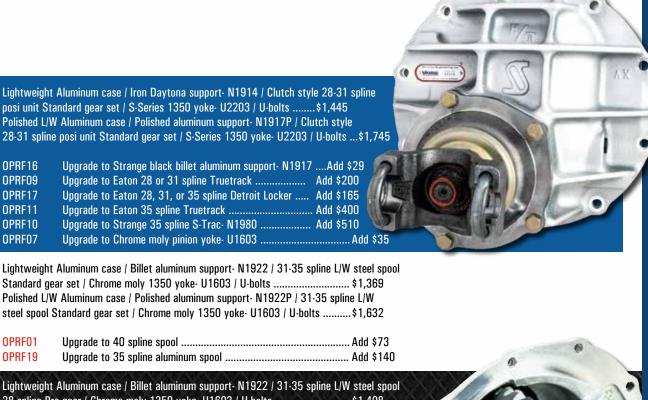
u-bolts. The PRF165P contains a polished case and support. Upgrades are available to a 35 spline Pro gear, 40 spline L/W steel spool, and 35 spline aluminum spool. Options include a ball bearing pinion support, lightened ring gear, MicroBlue service, computer pick-up collar, polished case and support, polished and chromed yoke, and aluminum yoke. For more abusive applications such as Top Dragster, consider using the HD Pro aluminum or Ultra Case to achieve maximum gear life.

#### **12 BOLT DROP-OUT ALUMINUM CASE WITH SPOOL & YOKE**

**PRG500:** The 12 bolt aluminum Drop-out center section is designed to bolt into a Ford 9" housing and utilize a 12 bolt ring and pinion. This allows the builder to create a lightweight sheet metal housing, have the convenience of a center section, and benefit from the efficiency of a 12 bolt gear. The application is a very lightweight Drag Race Only vehicle that does not require the strength of a Ford 9" gear, but can appreciate its

lightweight housing. Since a 12 bolt gear is 2-3% more efficient than a comparable 9", horsepower loss is reduced and an improvement realized in top end performance. This assembly should not be used outside its application since overloading will cause case deflection, gear bind, efficiency loss, and poor gear life. Upgrades available include a Pro gear, lightened ring gear, and MicroBlue service.

# 9" LIGHTWEIGHT ALUMINUM WITH YOKE



OPRF11 OPRF10 OPRF07	Upgrade to Eaton 35 spline Truetrack	
Standard Polished L	ht Aluminum case / Billet aluminum support· N1922 / 31·35 spline L/W steel spool gear set / Chrome moly 1350 yoke· U1603 / U·bolts	
OPRF01 OPRF19	Upgrade to 40 spline spoolAdd \$73 Upgrade to 35 spline aluminum spool	
28 spline Polished L	ht Aluminum case / Billet aluminum support· N1922 / 31·35 spline L/W steel spool Pro gear / Chrome moly 1350 yoke· U1603 / U-bolts \$1,498 /W Aluminum case / Polished aluminum support· N1922P / 31·35 spline L/W steel spool Pro gear / Chrome moly 1350 yoke· U1603 / U-bolts \$1,761	

Upgrades:	OPRF05	Upgrade to 35 spline 9" Pro gear	Add \$50
OXXX.	OPRF01	Upgrade to 40 spline spool	Add \$73
XXX	OPRF19	Upgrade to 35 spline aluminum spool	Add \$140

Options for all packages above         D359 OPRF OPRF OPRF OPRF OPRF OPRF OPRF U1613 U1613 U1613 U1614 U1614 U1614	2       MicroBlue gear set and bearings       Add \$400         3       Ball bearing support- Not available in polished       Add \$100         5       Replace S-Series yoke with Chromed chrome moly yoke       Add \$100         5       Replace Chrome moly yoke with Chromed chrome moly yoke       Add \$100         6       Replace Chrome moly yoke with Chromed chrome moly yoke       Add \$100         7       Upgrade to HD cap kit for rear end yoke       Add \$124         1       magnet pick-up collar for 28 spline pinion       Add \$124         1       magnet pick-up collar for 28 spline pinion       Add \$52         4       magnet pick-up collar for 28 spline pinion       Add \$60         8       magnet pick-up collar for 35 spline pinion       Add \$129         1       magnet pick-up collar for 35 spline pinion       Add \$129         1       magnet pick-up collar for 35 spline pinion       Add \$48         2       magnet pick-up collar for 35 spline pinion       Add \$42         2       magnet pick-up collar for 35 spline pinion       Add \$44         2       magnet pick-up collar for 35 spline pinion       Add \$44         2       magnet pick-up collar for 35 spline pinion       Add \$52         4       magnet pick-up collar for 35 spline pinion       Add \$52
N192	• • • • • • • • • • • • • • • • • • •

#### **PRG500** 12 bolt Drop-out case / Ultra lite 35 spline steel spool Standard gear set / Chrome moly 1350 yoke / U-bolts ...... \$1,628

**PRF170** 

PRF170P

**Upgrades:** 

**PRF155** 

PRF155P

Upgrades:

**PRF165** 

PRF165P

OPRF16

**OPRF09** 

OPRF17

OPRG01	Upgrade to Pro gear	Add \$99
D3596	Lighten ring gear	Add \$75
OPRF42	MicroBlue gear set & bearings	Add \$400
OPRF37	Upgrade to HD cap kit for rear end yoke	Add \$73
	OPRF42	D3596 Lighten ring gear OPRF42 MicroBlue gear set & bearings

Grange

# 9" LIGHTWEIGHT ALUMINUM WITH COUPLER

Our highly trained technicians are dedicated to provide the highest quality assembly that customers have grown to expect from Strange Engineering. Timken bearings and races are used throughout. The Gear set is hand massaged to remove sharp corners and burrs to provide quiet operation. Contact patterns are check and readjusted until satisfactory. Any questionable gear sets are returned to the manufacturer for evaluation and the set-up process begins again. We believe the extra time is well spent because while some may advertise the fastest assembly time, we would rather deliver the best in quality and workmanship.

#### LIGHTWEIGHT ALUMINUM CASE WITH SPOOL & COUPLER

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**PRF150:** The Lightweight Aluminum case with a lightened steel spool and Standard gear set can be used where weight is critical, the vehicle is light, and impact loads are relatively low. Drag Race applications include solid mount Super Comp Dragsters and Altereds. This package contains the Lightweight aluminum case, Strange billet aluminum pinion support, lightweight steel spool, Standard gear, and female coupler. The PRF150P

**PRF160:** The Lightweight Aluminum case with a lightened steel spool and 28 spline Pro gear set can be used where minimal weight is of utmost importance. Most common Drag Race applications include solid mount Super Comp Dragsters and Altereds. The package contains the Lightweight aluminum case, Strange billet aluminum pinion support, lightweight steel spool, 28 spline Pro gear, and female coupler. The PRF160P contains a contains a polished case and support. Upgrades are available to a 40 spline L/W steel spool or 35 spline aluminum spool. Options include a ball bearing pinion support, lightened ring gear, MicroBlue service, and computer pick-up collar. Current Super Comp vehicles that use a throttle stop will opt for the PRF160 which contains a Pro gear, and also upgrade to the 40 spline L/W steel spool.

polished case and support. Upgrades available are a 35 spline Pro gear, 40 spline spool, 35 spline aluminum spool, and ball bearing pinion support. Options include a lightened ring gear, MicroBlue service, and computer pick-up collar. For more extreme applications, check out the HD Pro aluminum or Ultra case assemblies.

#### **12 BOLT DROP-OUT ALUMINUM CASE WITH SPOOL & COUPLER**

**PRG505:** The 12 bolt aluminum Drop-out center section is designed to bolt into a Ford 9" housing and utilize a 12 bolt ring and pinion. This allows the builder to create a lightweight sheet metal housing, have the convenience of a center section, and benefit from the efficiency of a 12 bolt gear. The application is a very lightweight Drag Race Only vehicle that does not require the strength of a Ford 9" gear, but can appreciate

its lightweight housing. Since a 12 bolt gear is 2-3% more efficient than a comparable 9", horsepower loss is reduced and an improvement realized in top end performance. This assembly should not be used outside its application since overloading will cause case deflection, gear bind, efficiency loss, and poor gear life. Upgrades available include a Pro gear, lightened ring gear, and MicroBlue service.

# **9" LIGHTWEIGHT ALUMINUM WITH COUPLER**

		k	- China	12
31-35 spline Polished Ligh	Aluminum case / 1922 Strange forged aluminum suppor L/W steel spool / Standard gear set/ Female coupler tweight Aluminum case / N1922P polished support L/W steel spool / Standard gear set/ Female coupler	\$1,339		
OPRF01 OPRF19	Upgrade to 40 spline spool Upgrade to 35 spline aluminum spool			
31-35 spline Polished Ligh	Aluminum case / 1922 Strange billet aluminum support L/W steel spool / 28 spline Pro gear / Female coupler tweight Aluminum case / N1922P polished support L/W steel spool / 28 spline Pro gear / Female coupler	\$1,463		10
OPRF05 OPRF01	Upgrade to 35 spline 9" Pro gear Upgrade to 40 spline spool			
0000010				

	L/W steel spool / 28 spline Pro gear / Female coupler\$1,725	
Upgrades: OPRF05 OPRF01 OPRF19		Upgrade to 35 spline 9" Pro gear Add \$50 Upgrade to 40 spline spool Add \$73 Upgrade to 35 spline aluminum spool Add \$140
Ontion	D3596	Lighten ring gear Add \$75
Option: for all	OPRF42	
packag	oprf03	Ball bearing support- Not available in polished Add \$100
above	OPRF37	Upgrade to HD cap kit for rear end yoke Add \$73
above	U1613	1 magnet pick-up collar for 28 spline pinion Add \$48
	U1613-	2 2 magnet pick-up collar for 28 spline pinion Add \$52
	U1613-	4 4 magnet pick-up collar for 28 spline pinion Add \$60
	U1613-	8 8 magnet pick-up collar for 28 spline pinion Add \$129
	U1614	1 magnet pick-up collar for 35 spline pinion Add \$48
	U1614-	
	U1614-	a meður hun ek sem ver se ekuns kunsu unnur upp i se
	U1614-	a meður hun ek som ver se skuns kunsu munum vers i ves
	N19273	Sensor bracket for pinion support Add \$15

**PRF150** 

PRF150P

**PRF160** 

**PRF160P** 

Upgrades: OPRF01

PRG505 12 bolt Drop-out case / Ultra lite 35 spline steel spool Standard gear set / Female coupler...... \$1,563 OPRG01 Upgrade to Pro gear ..... Add \$99 **Upgrades:** D3596 Lighten ring gear ..... Add \$75 OPRF42 MicroBlue gear set & bearings ..... Add \$400 OPRF37 Upgrade to HD cap kit for rear end yoke ..... Add \$73



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# CENTER SECTIONS

# 9" HD PRO ALUMINUM WITH YOKE

Our highly trained technicians are dedicated to provide the highest quality assembly that customers have grown to expect from Strange Engineering. Timken bearings and races are used throughout. The Gear set is hand massaged to remove sharp corners and burrs to provide quiet operation. Contact patterns are check and readjusted until satisfactory. Any questionable gear sets are returned to the manufacturer for evaluation and the set-up process begins again. We believe the extra time is well spent because while some may advertise the fastest assembly time, we would rather deliver the best in quality and workmanship.

#### **HD PRO ALUMINUM CASE WITH DIFFERENTIAL**

**PRF180:** The HD Pro Aluminum case equipped with a posi unit can be used where weight savings or cosmetic appearance is important without sacrificing any gear life. In fact, gear life is increased over OEM cast and nodular iron units due to the rigidity of this case and pinion support design. This allows use of an aluminum case in applications that would normally be considered too heavy or abusive. Popular applications include street, Street

/ Track, Road Race, and many others. This package includes the HD Pro case and support, clutch style posi unit, Standard gear, and S-series 1350 yoke with u-bolts. Upgrades are available to the differential and to a chrome moly yoke. Options include a polished case and support, and a polished and chromed chrome moly yoke.

#### **HD PRO ALUMINUM CASE WITH SPOOL & YOKE**

**PRF184:** The HD Pro Aluminum case with a lightweight steel spool and Standard gear is used where weight savings and gear life are both very important. This case will offer greater gear life than OEM cast and nodular iron units, while drastically reducing weight. A typical application is a Drag race vehicle that is still able to get sufficient life out of a Standard gear. This package includes the HD Pro case and support, lightweight steel spool, Standard gear, and a chrome moly

**PRF188:** The HD Pro Aluminum case with a lightweight steel spool and 28 spline Pro gear is used where weight savings and gear life are both very important, and shock loads are too high for a Standard gear. The case and pinion support design offer a very stout foundation to support the spool and gear set. The oversized tail bearing offers more pinion support. Typical Drag Race applications are fast Door cars, Dragsters that run in both Super Comp and Top Dragster, and

**PRF192:** This center section features a HD Pro Aluminum 3.812" bore case and a special heavy duty lightened 40 spline steel spool. The spool has a thicker wall on the bearing journal to eliminate any possibility that the journal could collapse under extreme conditions. It has extended internal splines which allow the continued use of the same 40 spline axles, even if replacing a competitors 40 spline center section. The case, pinion support, and spool design create a ridged fixture to keep the ring and pinion in proper alignment. The oversized

1350 yoke with u-bolts. Upgrades available are a 40 spline L/W steel spool or 35 spline aluminum spool. Options include a ball bearing pinion support, lightened ring gear, MicroBlue service, computer pick-up collar, polished case and support, polished and chromed yoke, aluminum yoke, and load bolt. If shock loads are going to be more extreme, the PRF188 would be the better choice since it contains a Pro gear.

Top Sportsman vehicles. This package includes the HD Pro case and support, lightweight steel spool, 28 spline Pro gear, and a chrome moly 1350 yoke with u-bolts. Upgrades are available to a 35 spline 9" Pro gear, 9 1/2" Pro gear, 40 spline L/W steel spool, and 35 spline aluminum spool. Options include a ball bearing pinion support, lightened ring gear, MicroBlue service, computer pick-up collar, polished case and support, polished and chromed yoke, aluminum yoke, and load bolt.

tail bearing further adds to the support of the pinion. This package includes the HD Pro case and support, HD lightened 40 spline steel spool, 28 spline Pro gear, and a chrome moly 1350 yoke with u-bolts. Upgrades available are a 35 spline Pro gear, 9 1/2" Pro gear, and 40 spline aluminum spool. Options include a ball bearing pinion support, lightened ring gear, MicroBlue service, computer pick-up collar, polished case and support, a polished and chromed yoke, aluminum yoke, and load bolt.

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# 9" HD PRO ALUMINUM WITH YOKE

A-A' A	C
PRF180 HD Pro aluminum case and support / Clutch style 28-31 spline posi unit Standard gear set / S-Series 1350 yoke- U2203 / U-bolts\$1,635	Ž
Upgrades:OPRF09 OPRF17 OPRF11 OPRF10Upgrade to Eaton 28 or 31 spline TruetrackAdd \$200 	
PRF184 HD Pro aluminum case and support / 31-35 spline L/W steel spool Standard gear set / Chrome moly 1350 yoke- U1603 / U-bolts\$1,514	М М
Upgrades:OPRF01Upgrade to 40 spline L/W steel spool- D2000Add \$73OPRF19Upgrade to 35 spline aluminum spool- D1565Add \$140	
PRF188 HD Pro aluminum case and support / 31-35 spline L/W steel spool 28 spline Pro gear / Chrome moly 1350 yoke- U1603 / U-bolts \$1,665	
Upgrades:OPRF05Upgrade to 35 spline 9" Pro gearAdd \$50OPRF52Upgrade to 35 spline 9 1/2" Pro gearAdd \$170OPRF01Upgrade to 40 spline L/W steel spool- D2000Add \$73OPRF19Upgrade to 35 spline aluminum spool- D1565Add \$140	Ū,
PRF192HD Pro 3.812" bore aluminum case and support / D2002 HD 40 spline L/W steel spool28 spline Pro gear / U1603 chrome moly 1350 yoke / U-bolts\$1,749	Ĵ.
Upgrades:OPRF05 OPRF52Upgrade to 35 spline 9" Pro gearAdd \$50 Upgrade to 35 spline 9 1/2" Pro gearOPRF29Upgrade to 40 spline aluminum spool- D2004Add \$95	
Options for all packages aboveD3596 UpRF03Lighten ring gear MicroBlue gear set and bearingsAdd \$75 Add \$400 	

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# CENTER SECTIONS

# 9" HD PRO ALUMINUM WITH COUPLER

Our highly trained technicians are dedicated to provide the highest quality assembly that customers have grown to expect from Strange Engineering. Timken bearings and races are used throughout. The Gear set is hand massaged to remove sharp corners and burrs to provide quiet operation. Contact patterns are check and readjusted until satisfactory. Any questionable gear sets are returned to the manufacturer for evaluation and the set-up process begins again. We believe the extra time is well spent because while some may advertise the fastest assembly time, we would rather deliver the best in quality and workmanship.

#### **HD PRO ALUMINUM CASE WITH SPOOL & COUPLER**

**PRF182:** The HD Pro Aluminum case with a lightweight steel spool and Standard gear is used when weight savings and gear life are both very important. This case will offer much greater gear life than OEM cast and nodular iron units, while drastically reducing weight. A typical application is a Dragster or Altered that is still able to get sufficient life out of a Standard gear. This package includes the HD Pro case

**PRF186:** The HD Pro Aluminum case with a lightweight steel spool and 28 spline Pro gear is used when weight savings and gear life are both very important and shock loads are too high for a Standard gear. The case and pinion support design offer a very stout foundation to support the spool and gear set. The tail bearing is oversized further adding to the support of the pinion. Solid mount Dragsters and Altereds are the most common applications. This package includes the HD Pro

**PRF190:** This center section features a HD Pro Aluminum 3.812" bore case and a special heavy duty lightened 40 spline steel spool. The spool has a thicker wall on the bearing journal to eliminate any possibility that the journal could collapse under extreme conditions. It has extended internal splines which allow the continued use of the same 40 spline axles, even if replacing a competitor's 40 spline center section. The case, pinion support, and spool design create a ridged

and support, lightweight steel spool, Standard gear, and female coupler. Upgrades available are a 40 spline L/W steel spool or 35 spline aluminum spool. Options include a ball bearing pinion support, lightened ring gear, MicroBlue service, computer pick-up collar, polished case and support, and load bolt. If shock loads are going to be more extreme, the PRF188 which contains a Pro gear would be the better choice.

case and support, lightweight steel spool, 28 spline Pro gear, and female coupler. Upgrades are available including a 35 spline 9" Pro gear, 9 1/2" Pro gear, 40 spline spool, and 35 spline aluminum spool. Options include a ball bearing pinion support, lightened ring gear, MicroBlue service, computer pick-up collar, polished case and support, and load bolt. For extreme conditions such as Alcohol Dragster or Funny Car, the PRF190 would be the better choice due to the spool design.

fixture to keep the ring and pinion in proper alignment. The oversized tail bearing further adds to the support of the pinion. This package includes the HD Pro case and support, HD lightened 40 spline steel spool, 28 spline Pro gear, and female coupler. Upgrades available are a 35 spline 9" Pro gear, 9 1/2" Pro gear, and 40 spline aluminum spool. Options include a ball bearing pinion support, lightened ring gear, MicroBlue service, computer pick-up collar, polished case and support, and load bolt.

# 9" HD PRO ALUMINUM WITH COUPLER

PRF182 HD Pro aluminum case and support / 31-35 spline L/W steel spool Standard gear set / Female coupler ......\$1,484

Upgrades:	OPRF01	
	OPRF19	

01 Upgrade to 40 spline L/W steel spool- D2000 ..... Add \$73 19 Upgrade to 35 spline aluminum spool- D1565 ..... Add \$140

PRF186	HD Pro aluminum case and support / 31-35 spline L/M	l steel spool
	28 spline Pro gear / Female coupler	\$1,630

Upgrades:	OPRF05	Upgrade to 35 spline 9" Pro gear Add \$50
	OPRF52	Upgrade to 35 spline 9 1/2" Pro gear Add \$170
	OPRF01	Upgrade to 40 spline L/W steel spool- D2000 Add \$73
	OPRF19	Upgrade to 35 spline aluminum spool- D1565 Add \$140

#### PRF190

Alter Alter Alter Alter		Upgrade to 35 spline 9" Pro gear Upgrade to 35 spline 9 1/2" Pro gear Upgrade to aluminum 40 spline spool· D2002	Add \$170
Options	D3596	Lighten ring gear	Add \$75
for all	OPRF42	······································	
package	s OPRF03	Ball bearing pinion support- Not available in polished	\dd \$100
above	OPRF33	Polished case	\dd \$240
	OPRF34	Polished pinion support	Add \$75
	OPRF37	Upgrade to HD cap kit for rear end yoke	\dd \$73
	N1910H		
	U1613	1 magnet pick-up collar for 28 spline pinion	\dd \$48
	U1613-2	2 2 magnet pick-up collar for 28 spline pinion	\dd \$52
	U1613-4	4 4 magnet pick-up collar for 28 spline pinion	\dd \$60
	U1613-8		
	U1614		
	U1614-2	- J P P P	
	U1614-4	· · · · · · · · · · · · · · · · · · ·	
	U1614-8	8 8 magnet pick-up collar for 35 spline pinion	\dd \$129
	N2300S	Sensor bracket for HD Pro pinion support	\dd \$15



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**ULTRA CASE DESIGN:** The Ultra case is used where maximum gear life is essential. This case and pinion support design move both pinion bearings into the case. This offers greater support than all other designs whereas the outer bearing sits outside the case. The pinion support has a tight fit to the case bore, further eliminating any flex that can occur. This coupled with the oversized tail bearing, firmly holds the pinion gear in proper alignment with the ring gear under the most extreme conditions. The massive billet aluminum main caps complete this maximum effort design. This case supports 9" and 9 1/2" gear sets, and can use 10" development gears with the proper pinion support. All Ultra cases have a provision to use an optional load bolt if required. Bore sizes available are 3.250" and

3.812". The 3.812" bore Ultra case is designed for a heavy duty lightweight 40 spline steel spool that features a thicker wall on the bearing journal to eliminate the possibility of collapse under the most abusive conditions. It also allows the use of a aluminum 40 spline spool were applications permit. The 3.812" is available in a special lightened version with a ball bearing pinion support commonly used in Pro Stock cars. Ball bearing supports are an option on non-lighten cases as well. For a Funny car requiring a coupler cover, a support with a built-in cover is an option. A special 4.00" bore case is available to suit the Strange L6000 Drop-out Live Axle.

#### **ULTRA CASE WITH SPOOL & YOKE**

**PRF205:** This assembly includes a 3.250 bore Ultra case, billet aluminum pinion support, 35 spline lightweight steel spool, 28 spline Pro gear set, and a chrome moly 1350 yoke with u-bolts. Upgrades available are to a 40 spline L/W steel spool, 35 spline aluminum spool,

**PRF215:** This assembly includes a 3.812 bore Ultra case, billet aluminum pinion support, HD 40 spline lightweight steel spool, 28 spline Pro gear set, and a chrome moly 1350 yoke with u-bolts. Upgrades available are a ball bearing support, Lightened case with ball bearing

**PRF225:** This assembly includes a 3.812 bore Ultra case, billet aluminum pinion support, HD 40 spline lightweight steel spool, 35 spline Pro gear set, and a chrome moly 1350 yoke with u-bolts. Upgrades available are a ball bearing support, Lightened case with ball bearing

35 spline 9" Pro gear, 9 1/2" Pro gear, and ball bearing pinion support. Options include a lightened ring gear, MicroBlue service, computer pickup collar, aluminum 1350 yoke, and load bolt.

support, and 40 spline aluminum spool. Options include a lightened ring gear, MicroBlue service, computer pick-up collar, aluminum 1350 yoke, and load bolt.

support, and 40 spline aluminum spool. Options include a lightened ring gear, MicroBlue service, computer pick-up collar, chrome moly 1480 yoke, aluminum 1350 yoke, and load bolt.

# 9" ULTRA WITH YOKE

			3	KEUL
	28 spline Pro	gear set / Chrome moly 1350 yoke-	I-D1555	
	OPRF05 OPRF52 OPRF26	Upgrade to 35 spline 9" Pro gear Add \$5 Upgrade to 35 spline 9 1/2" Pro gear Add \$1 Upgrade to Ball bearing support Add \$1	0 70 10 10 10 10 10 10 10 10 10 10 10 10 10	
	OPRF25	Upgrade to Lightened case and ball bearing support	Add \$110	
	OPRF20 OPRF26 OPRF25	Upgrade to 1480 yoke Upgrade to Ball bearing support Upgrade to Lightened case and ball bearing support	Add \$160 Add \$110 Add \$110	
ptions or all ackage: bove	s OPRF13 OPRF37 N1910H U1613 U1613-2 U1613-4 U1613-8 U1614 U1614-2 U1614-4	MicroBlue gear set and bearings         Replace Chrome moly yoke with Aluminum yoke         Upgrade to HD cap kit for rear end yoke         Load bolt- Can not be used with lightened ring gear         1 magnet pick-up collar for 28 spline pinion         2 magnet pick-up collar for 28 spline pinion         4 magnet pick-up collar for 28 spline pinion         8 magnet pick-up collar for 28 spline pinion         1 magnet pick-up collar for 28 spline pinion         2 magnet pick-up collar for 35 spline pinion         4 magnet pick-up collar for 35 spline pinion         4 magnet pick-up collar for 35 spline pinion         5 magnet pick-up collar for 35 spline pinion         6 magnet pick-up collar for 35 spline pinion         7 magnet pick-up collar for 35 spline pinion	Add \$400 Add \$124 Add \$73 Add \$73 Add \$39 Add \$48 Add \$52 Add \$60 Add \$48 Add \$52 Add \$48 Add \$52 Add \$60 Add \$52 Add \$52 Add \$52 Add \$52 Add \$52 Add \$52 Add \$52	
	des: 15 ades: 25 ades: 25-10 ades: ptions or all ackage	28 spline Pro U1603 / U-buides:OPRF01 OPRF05 OPRF52 OPRF26 OPRF1915Ultra 3.812" 28 spline Proades:OPRF26 OPRF2925Ultra 3.812" Spline Proades:OPRF26 OPRF2925Ultra 3.812" To PRF20 OPRF2925-10Ultra 3.812" To " Pro gear 10" Pro gearades:OPRF26 OPRF2925-10Ultra 3.812" To " Pro gearades:OPRF26 OPRF2925-10Ultra 3.812" 10" Pro gear OPRF20ades:OPRF26 OPRF20 UPRF20 OPRF20ptions r all ackages ooveD3596 OPRF42 OPRF37 N1910H U1613 U1613-2 U1614-4 U1614-4 U1614-4	28 spline Pro gear set / Chrome moly 1350 yoke- U1603 / U-bolts.       \$1,769         des:       OPRF01       Upgrade to 40 spline L/W steel spool- D2000       Add \$5 OPRF05         OPRF05       Upgrade to 35 spline 9" Pro gear       Add \$1 OPRF26         OPRF26       Upgrade to 35 spline 9 1/2" Pro gear       Add \$1 OPRF26         OPRF26       Upgrade to 35 spline aluminum spool- D1565       Add \$1 OPRF26         OPRF26       Upgrade to 35 spline aluminum spool- D1565       Add \$1 OPRF25         ades:       OPRF26       Upgrade to Ball bearing support	28 spline Pro gear set / Chrome moly 1350 yoke- U1803 / U-buts

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Our highly trained technicians are dedicated to provide the highest quality assembly that customers have grown to expect from Strange Engineering. Timken bearings and races are used throughout. The Gear set is hand massaged to remove sharp corners and burrs to provide quiet operation. Contact patterns are check and readjusted until satisfactory. Any questionable gear sets are returned to the manufacturer for evaluation and the set-up process begins again. We believe the extra time is well spent because while some may advertise the fastest assembly time, we would rather deliver the best in quality and workmanship.

**ULTRA CASE DESIGN:** The Ultra case is used where maximum gear life is essential. This case and pinion support design move both pinion bearings into the case. This offers greater support than all other designs whereas the outer bearing sits outside the case. The pinion support has a tight fit to the case bore, further eliminating any flex that can occur. This coupled with the oversized tail bearing, firmly holds the pinion gear in proper alignment with the ring gear under the most extreme conditions. The massive billet aluminum main caps complete this maximum effort design. This case supports 9" and 9 1/2" gear sets, and can use 10" development gears with the proper pinion support. All Ultra cases have a provision to use an optional load bolt if required. Bore sizes available are 3.250" and

3.812". The 3.812" bore Ultra case is designed for a heavy duty lightweight steel spool that features a thicker wall on the bearing journal to eliminate the possibility of collapse under the most abusive conditions. It also allows the use of a aluminum 40 spool were applications permit. The 3.812" is available in a special lightened version with a ball bearing pinion support commonly used in Pro Stock cars. Ball bearing supports are an option on non-lighten cases as well. For a Funny car requiring a coupler cover, a support with a built-in cover is an option. A special 4.00" bore case is available to suit the Strange L6000 Drop-out Live Axle.

#### **ULTRA CASE WITH SPOOL & COUPLER**

**PRF200:** This assembly includes a 3.250 bore Ultra case, billet aluminum pinion support, 35 spline lightweight steel spool, 28 spline Pro gear set, and female coupler. Upgrades available are to a 40 spline L/W steel spool, 35 spline aluminum spool, 35 spline 9" Pro gear, and

**PRF210:** This assembly includes a 3.812 bore Ultra case, billet aluminum pinion support, HD 40 spline lightweight steel spool, 28 spline Pro gear set, and female coupler. Upgrades available are a coupler cover support, ball bearing support, Lightened case with ball

**PRF220:** This assembly includes a 3.812 bore Ultra case, billet aluminum pinion support, HD 40 spline lightweight steel spool, 35 spline Pro gear set, and female coupler. Upgrades available are a coupler cover support, ball bearing support, Lightened case with ball

**PRF230:** This assembly includes a 4.00 bore Ultra case, billet aluminum pinion support, Live Axle 36 spline lightweight steel spool, 35 spline Pro gear set, and female coupler. Upgrades available are a

9 1/2" Pro gear. Options include a coupler cover support, ball bearing pinion support, lightened ring gear, MicroBlue service, computer pick-up collar, and load bolt.

bearing support, 40 spline aluminum spool, 35 spline 9" Pro gear, and 9 1/2" Pro gear. Options include a lightened ring gear, MicroBlue service, computer pick-up collar, and load bolt.

bearing support, 40 spline aluminum spool, and 9 1/2" Pro gear. Options include a lightened ring gear, MicroBlue service, computer pick-up collar, and load bolt.

coupler cover support and 9 1/2" Pro gear. Options include a lightened ring gear, MicroBlue service, computer pick-up collar, and load bolt.

# 9" ULTRA WITH COUPLER

	PRF200		case and support / 35 spline L/W steel spool- D1555 gear / Female coupler \$1,747	
	Upgrades:	OPRF01 OPRF05 OPRF52 OPRF26 OPRF31	Upgrade to 40 spline L/W steel spool- D2000 Add \$73 Upgrade to 35 spline 9" Pro gear Add \$50 Upgrade to 35 spline 9 1/2" Pro gear Add \$10 Upgrade to Ball bearing support Add \$110 Upgrade to Coupler cover support. Not available in ball bearing Add \$75	
		OPRF19	Upgrade to Aluminum 35 spline spool- D1565 Add \$140	
	PRF210		case and support / 40 spline HD L/W steel spool- D2002 gear / Female coupler \$1,837	
	Upgrades:	OPRF26 OPRF25 OPRF31 OPRF29	Upgrade to Ball bearing support Add \$110 Upgrade to Lightened case & ball bearing support Add \$110 Upgrade to Coupler cover support- Not available in ball bearing Add \$75 Upgrade to Aluminum 40 spline spool- D2004 Add \$95	
X	PRF220		case and support / 40 spline HD L/W steel spool- D2002 gear / Female coupler	. \$1,883
	Upgrades:	OPRF23 OPRF26 OPRF25 OPRF31 OPRF29	Upgrade to 9 1/2" Pro gear Upgrade to Ball bearing support Upgrade to Lightened case and ball bearing support Upgrade to Coupler cover support- Not available in ball bearing Upgrade to Aluminum 40 spline spool- D2004	Add \$110 Add \$110 Add \$75
	PRF230		ase and support / Live Axle 36 spline lightweight steel spool gear / Female coupler	. \$2,045
	Upgrades:	OPRF23 OPRF31	Upgrade to 9 1/2" Pro gear Upgrade to Coupler cover support- Not available in ball bearing	
	Options for all package above	D3596 OPRF37 OPRF42 N1910H U1613 U1613-2 U1613-4 U1613-4 U1614 U1614-2 U1614-4 U1614-5 N1952S	Load bolt- Can not use with lightened ring gear Add\$391 magnet pick-up collar for 28 spline pinion Add \$482 magnet pick-up collar for 28 spline pinion Add \$524 magnet pick-up collar for 28 spline pinion Add \$608 magnet pick-up collar for 28 spline pinion Add \$1291 magnet pick-up collar for 35 spline pinion	. Add \$73

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## 9" BILLET ALUMINUM WITH YOKE

Our highly trained technicians are dedicated to provide the highest quality assembly that customers have grown to expect from Strange Engineering. Timken bearings and races are used throughout. The Gear set is hand massaged to remove sharp corners and burrs to provide quiet operation. Contact patterns are check and readjusted until satisfactory. Any questionable gear sets are returned to the manufacturer for evaluation and the set-up process begins again. We believe the extra time is well spent because while some may advertise the fastest assembly time, we would rather deliver the best in quality and workmanship.

#### **BILLET CASE & PINION SUPPORT DESIGN:**

The billet case and pinion support provide unsurpassed support to the ring and pinion under the most extreme conditions. This case and pinion support design move both pinion bearings into the case. This offers greater support than other designs where the outer bearing sits outside the case. The billet pinion support is tightly fitted to the case bore, further eliminating any flex that can occur. This, coupled with the oversized tail bearing, firmly holds the pinion gear in proper alignment with the ring gear. The massive curved billet aluminum main caps feature two extra studs to provide additional support against cap deflection. This case utilizes a support for 9" and 9 1/2" gear sets, or a 10" specific support. The billet case has a provision to use an optional load bolt if required. The 3.812" bore billet case is designed for a heavy duty lightweight steel spool that features a thicker wall on the bearing journal to eliminate the possibility of collapse under the most abusive conditions. A ball bearing support is available as an option.

#### **BILLET CASE WITH HD 40 SPOOL & YOKE**

**PRF425:** This assembly includes the Strange 3.812 bore Billet case, billet pinion support, sensor holder, HD 40 spline lightweight steel spool, 35 spline Pro gear set, and a chrome moly 1350 yoke with HD cap kit. A ball bearing support upgrade is available. Options include a 9 1/2" Pro gear, lightened ring gear, MicroBlue service, computer pick-up collar, additional sensor holder, 1350 billet yoke, 1480 billet yoke, and load bolt.

**PRF425-10:** This assembly includes the Strange 3.812 bore Billet case, 10" gear specific billet pinion support, sensor holder, HD 40 spline lightweight steel spool, 10" Pro gear set, and a 1350 chrome moly yoke with HD cap kit. A ball bearing support upgrade is available. Options include a lightened ring gear, MicroBlue service, computer pick-up collar, additional sensor holder, 1350 billet yoke, 1480 billet yoke, and load bolt.

#### **BILLET CASE WITH HD 40 SPOOL & COUPLER**

**PRF420:** This assembly includes the Strange 3.812 bore Billet case, billet pinion support, sensor holder, HD 40 spline lightweight steel spool, 35 spline Pro gear set, and a chrome moly female coupler. A ball bearing support upgrade is available. Options include a 9 1/2" Pro gear, lightened ring gear, MicroBlue service, computer pick-up collar, additional sensor holder, and load bolt.

**PRF420-10:** This assembly includes the Strange 3.812 bore Billet case, 10" gear specific billet pinion support, sensor holder, HD 40 spline lightweight steel spool, 10" Pro gear set, and a chrome moly female coupler. A ball bearing support upgrade is available. Options include a lightened ring gear, MicroBlue service, computer pick-up collar, additional sensor holder, and load bolt.

# 9" BILLET ALUMINUM WITH YOKE

LENTER SECTIONS

PRF425 Billet 3.812 bore case, support & sensor holder / D2002 HD 40 spline lightweight steel spool 35 spline Pro gear set / U1604 chrome moly 1350 yoke / U1610HD cap kit...... \$4,395

<b>Upgrades:</b>	OPRF23	Upgrade to 9 1/2" Pro gear	Add	\$140
	OPRF08	Upgrade to 1350 Billet yoke	Add	\$160
	OPRF20	Upgrade to 1480 Billet yoke	Add	\$16aa0
	OPRF26	Upgrade to Ball bearing support	Add	\$110

PRF425-10 Billet 3.812" bore case / 10" specific support & sensor holder / D2002 HD 40 spline lightweight steel spool 10" Pro gear set / U1604 chrome moly 1350 yoke / U1610HD cap kit...........\$5,045

Upgrades: OPRF08	Upgrade to 1350 Billet yoke Add \$160
OPRF20	Upgrade to 1480 Billet yoke Add \$160
OPRF26	Upgrade to Ball bearing support Add \$110

PRF420	Billet 3.812" bore case, support & sensor holder / D2002 HD 40 spline lightweight steel spool
XXX	35 spline Pro gear / Chrome moly female coupler \$4,295
KKKA	CACACIACIACIACIACIACIACIACIA (INCIACIACIACIACIACIACIACIACIACIACIACIACIAC

Ŕ	Upgrades:	OPRF23	Upgrade to 9 1/2" Pro gear	Add \$140	
Ŕ	5052	OPRF26	Upgrade to Ball bearing support	Add \$110	

Upgrades: OPRF26	Upgrade to Ball bearing support	Add \$110
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Options for all packages above	U1614-4	Lighten ring gear MicroBlue gear set and bearings Load bolt - Can not be used with lightened gear Additional Sensor holder 1 magnet pick-up collar 2 magnet pick-up collar 4 magnet pick-up collar 8 magnet pick-up collar	Add Add Add Add Add Add Add	\$400 \$39 \$30 \$48 \$52 \$60
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### 9" STEEL



**BARE HOUSING CENTERS:** Bare housing centers are constructed from .141" mild steel with a heavy duty .282" face plate. Tube insertion locations are slotted to allow complete and secure welding of the tubes to the housing. Internal plates gusset the housing and provide internal support to the ends of the tubes. The cover is designed to provide

the clearance necessary for cases with heavy duty main caps and also allow the use of 9 1/2" gear sets. The H1110 housing center is designed to accept 3" 0.D. tubing and the H1112 is for 3 1/4". Both housing centers come equipped with 10 center section studs installed.

**WELDED HOUSINGS:** All below housings begin with a Strange bare housing center as described above. Fill and drain plugs are installed to facilitate fluid changes. Your choice of .250" wall 3" or 3 1/4" mild steel tubing is installed deep into the housing until fully engaged into the internal gusset near the face plate. Using an alignment jig, the tubing is welded 360 degrees to the outside of the housing, along the housing slots, and to the

**HOUSING TUBED:** The housing is fitted with fill and drain plugs, and tubed with your choice of .250" wall 3" or 3 1/4" mild steel tubing. Larger tubing is stronger, but the intended mounts may dictate tube diameter. A housing like this is for the builder that will be installing their

internal gusset. The mounts are attached to the jig and welded to the tubes. Lastly, the ends are welded after all other welding is complete to ensure perfect alignment with the center section. Some housings may be only available in a certain tube diameter limited by mount design. H1128N backbrace option is available on most housings. The brace would be installed prior to the housing ends.

own mounts and may also trim the tubing further. A welding jig will be required to install the housing ends after all other welding has been completed.

**HOUSING WITH ENDS- NO MOUNTS:** The housing is fitted with fill and drain plugs, tubed with your choice of .250" wall 3" or 3 1/4" mild steel tubing, and choice of housing ends. Larger tubing is stronger, but the intended mounts may dictate tube diameter. Since the builder will be installing their own mounts, extreme care must be taken during the welding process as housing end alignment can be compromised. An alignment jig should be used afterwards to ensure that warping did not occur.

**HOUSING WITH MOUNTS- NO ENDS:** The housing is fitted with fill and drain plugs, tubed with your choice of .250" wall 3" or 3 1/4" mild steel tubing, and choice of mounts. Larger tubing is stronger, but many mounts are designed to fit a 3" tube. A builder might order this if they are unsure of the final width, or already has housing ends and

#### HOUSING WITH ENDS AND MOUNTS:

The housing is fitted with fill and drain plugs, tubed with your choice of .250" wall 3" or 3 1/4" mild steel tubing, and choice of mounts and housing ends. While larger tubing is stronger, the mounts selection may have determined tube diameter. This configuration is the safest way to maintain the proper alignment of the housing ends. The fixturing and welding of the

an alignment jig. It may also be the base for a housing that will use a floater kit. Purchased Strange floater spindles may be fitted and welded at an additional charge. A fully welded housing with spindles can also be ordered with an optional satin black powdercoat finish.

housing ends is always our last operation. For vehicles that will see very hard launches, there is an option to weld a back brace along the rear of the housing. It is designed to eliminate housing and tube flex that can occur under harsh conditions. An optional satin black powdercoat finish is also available.

# 9" STEEL

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H1110 H1112		ter for use with 3″ O.D. tubes ter for use with 3 1/4″ O.D. tubes	
HF9 HF9E		th fill and drain- No ends or mounts drain, and ends- No mounts	
HF9L HF9LE		drain, and leaf spring mounts- No ends drain, leaf spring mounts, and ends	
HF9GA HF9GAE HF9GAM HF9GAME	HD GM A-body housi HD GM A-body housi	ng tubed with ears, fill, and drain- No mounts or ends ng with ears, fill, drain, and ends- No mounts ng with ears, fill, drain, and mounts- No ends ng with ears, fill, drain, mounts, and ends	.\$675 .\$750
HF9GG HF9GGE HF9GGM HF9GGME	HD GM G-body housi HD GM G-body housi	ng tubed with ears, fill, and drain- No mounts or ends ng with ears, fill, drain, and ends- No mounts ng with ears, fill, drain, and mounts- No ends ng with ears, fill, drain, mounts, and ends	.\$714 .\$750
HF9GBM HF9GBME		ng with fill, drain, and mounts <sup>.</sup> No ends ng with fill, drain, mounts, and ends	
HF9LEG67C10 HF9LEG73C10 HF9LEG88C15	HD GM Truck 73-87	C10 housing with fill, drain, trailing arm mounts, & ends C10 housing with fill, drain, leaf spring mounts, & ends C15 housing with fill, drain, leaf spring mounts, & ends	\$675
HF9M86 HF9M86E HF9M86M HF9M86ME	HD Mustang 79-04 h HD Mustang 79-04 h	ousing tubed with ears, fill, and drain- No mounts or ends ousing with ears, fill, drain, and ends- No mounts ousing with ears, fill, drain, and mounts- No ends ousing with ears, fill, drain, mounts, and ends	\$725 \$736
HF9M05 HF9M05E HF9M05M HF9M05ME	HD Mustang 05-14 h HD Mustang 05-14 h	ousing tubed with ears, fill, and drain- No mounts or ends ousing with ears, fill, drain, and ends- No mounts ousing with ears, fill, drain, and mounts- No ends ousing with ears, fill, drain, mounts, and ends	\$695 \$736
Options	H1128N H1199P-BLK	Install back brace on new housing- Parts & Labor Powder coat housing satin black	
	H1130DF H1130SF	Install Drag Race floater spindles- Labor only Install Pro Touring floater spindles- Labor only	



## 9" ULTRA FAB

**Ultra Fabricated Housing Centers:** Ultra Fabricated housing centers are constructed from .125" alloy steel with a heavy duty .375" face plate. Triangulated design provides rigid housing tube support for more consistent and straighter launches. Internal radial gusset plates brace end of housing tube and increase overall housing stiffness. Tube insertion locations are slotted for 5" to allow complete and secure welding of the

tubes to the housing. The housing is designed to provide the clearance necessary for cases with heavy duty main caps and also allowing the use of 9", 9 1/2", or 10" gear sets. The H1110UF housing center is designed to accept 3" OD tubing and the H1112UF is for 3 1/4". Both housing centers come equipped with center section studs installed.

**Ultra Fabricated Housings:** All housings below begin with a Strange Ultra Fabricated housing center as described above. Fill and drain plugs are installed to facilitate fluid changes. Your choice of .250" wall 3" or 3 1/4" mild steel tubing is installed deep into the housing until fully engaged into the internal gusset near the face plate. Using an alignment jig, the tubing is welded 360 degrees to the outside of the housing, along the housing slots, and to the internal gusset. The mounts are attached to the jig and welded to the tubes. Lastly, the ends are welded after all other welding is complete to ensure perfect alignment with the center section. Some housings may be only available in a certain tube diameter limited by mount design. H1128N back brace option is available on most housings. The brace would be installed prior to the housing ends.

**Ultra Fabricated Housing Tubed:** The housing is fitted with fill and drain plugs, and tubed with your choice of .250" wall 3" or 3 1/4" mild steel tubing. Larger tubing is stronger, but the intended mounts may dictate tube diameter. A housing like this is for a builder that

will be installing their own mounts and may also trim the tubing further. A welding jig will be required to install the housing ends after all other welding has been completed.

**Ultra Fabricated Housing with Ends:** The housing is fitted with fill and drain plugs, tubed with your choice of .250" wall, 3" or 3 1/4" mild steel tubing, and choice of housing ends. Larger tubing is stronger, but the intended mounts may dictate tube diameter. Since the builder will be installing their own mounts, extreme care must be taken during the welding process as housing end alignment can be compromised. An alignment jig should be used afterwards to ensure that warping did not occur.

#### Ultra Fabricated Housing with Mounts:

housing is fitted with fill and drain plugs, tubed with your choice of .250" wall 3" or 3 1/4" mild steel tubing, and choice of mounts. Larger tubing is stronger, but many mounts are designed to fit a 3" tube. A builder might order this if they are unsure of the final width, or already has housing ends

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and an alignment jig. It may also be the base for a housing that will use a floater kit. To fit and weld purchased Strange floater spindles is available at an additional charge. A fully welded housing with spindles can also be ordered with an optional satin black powder coat finish.

#### Ultra Fabricated Housing with Ends & Mounts:

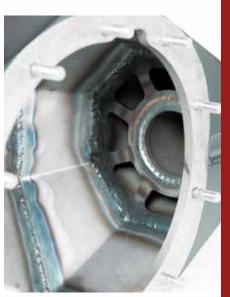
The housing is fitted with fill and drain plugs, tubed with your choice of .250" wall, 3" or 3 1/4" mild steel tubing, and choice of mounts and housing ends. While larger tubing is stronger, the mounts selection may have determined tube diameter. This configuration is the safest way to maintain the proper alignment of the housing ends. The fixturing and

welding of the housing ends is always our last operation. For vehicles that will see very hard launches, there is an option to weld a back brace along the rear of the housing. It is designed to eliminate housing and tube flex that can occur under harsh conditions. An optional satin black powder coat finish is also available.

# 9" ULTRA FAB

H1110UF H1112UF	Ultra Fab Bare Housing Center for use with 3" OD tubes
HF9UF HF9EUF	Ultra Fab Housing tubed with fill and drain- No ends or mounts
HF9LUF HF9LEUF	Ultra Fab Housing with fill, drain, and leaf spring mounts- No ends\$1,075 Ultra Fab Housing with fill, drain, leaf spring mounts, and ends\$1,165
HF9GAUF HF9GAEUF HF9GAMUF HF9GAMEUF	Ultra Fab GM A-body housing tubed with ears, fill, and drain- No mounts or ends \$1,085 Ultra Fab GM A-body housing with ears, fill, drain, and ends- No mounts
HF9GGUF HF9GGEUF HF9GGMUF HF9GGMEUF	Ultra Fab GM G-body housing tubed with ears, fill, and drain- No mounts or ends \$1,125 Ultra Fab GM G-body housing with ears, fill, drain, and ends- No mounts
HF9GBMUF HF9GBMEUF	Ultra Fab GM B-body 65-70 housing with fill, drain, and mounts- No ends\$1,406 Ultra Fab GM B-body 65-70 housing with fill, drain, mounts, and ends\$1,495
HF9M86UF HF9M86EUF HF9M86MUF HF9M86MEUF	Ultra Fab Mustang 79-04 housing tubed with ears, fill, and drain- No mounts / ends .\$1,130 Ultra Fab Mustang 79-04 housing with ears, fill, drain, and ends- No mounts\$1,225 Ultra Fab Mustang 79-04 housing with ears, fill, drain, and mounts- No ends\$1,236 Ultra Fab Mustang 79-04 housing with ears, fill, drain, mounts, and ends\$1,325
HF9M05UF HF9M05EUF HF9M05MUF HF9M05MEUF	Ultra Fab Mustang 05-14 housing tubed with ears, fill, and drain- No mounts / ends .\$1,105 Ultra Fab Mustang 05-14 housing with ears, fill, drain, and ends- No mounts\$1,195 Ultra Fab Mustang 05-14 housing with ears, fill, drain, and mounts- No ends\$1,236 Ultra Fab Mustang 05-14 housing with ears, fill, drain, mounts, and ends\$1,325
Options	H1128N H1199P-BLKInstall back brace on new housing- Parts & Labor\$185 Powder coat housing satin black\$159

Install Drag Race floater spindles- Labor only .......\$200 Install Pro Touring floater spindles- Labor only ......\$150 H1130DF H1130SF



strang

## 9" MODULAR 4-LINK DRAGSTER FLOATER REAR END

This Strange modular rear is specifically designed for Dragsters. The lightweight aluminum housing features the same rigid design as used in our Pro Mod rear ends. The 11 1/2" floating stainless steel brake

rotors and Strange billet calipers provide long rotor life, maximum clamping force and excellent braking characteristics.

TREATE

The floater version offers the best in safety as the axles provide only the rotational forces to the drive plates and wheel studs. Any other forces, such as tire shake, are transmitted from the hubs to the housing. This eliminates the possibility of loosing a tire and wheel due to an axle flange failure.

The flanged axle version is supplied with Hy-Tuf 40 spline axles. The axle shafts are fully gun-drilled from end to end and feature the Ultra Lite flange option. This option not only removes material from the flange, but goes a step further to include the area underneath the logo forming a funnel shape. This process is only possible with a professional thru hardened pro race axle. The axle bearings are oversized low friction ball bearings retained by custom wide and thick wedding rings to ensure proper axle retention.

Since both housings share the same center piece, the external components can be changed for future requirements. The flanged axle version can be changed to a floater, 16" four link centers can become 17", and 32" wheel to wheel can be increased to 33"

# 9" MODULAR 4-LINK DRAGSTER FLANGED AXLE REAR END

- Lightweight and compact configuration
- 11.50" rotor diameter for increased braking vs. standard 11.250" rotor
- Strange Stainless 2-piece floating brake rotor for the most demanding and abusive braking applications
- Strange billet aluminum calipers and billet steel pistons for maximum stiffness- maximum clamping force
- Strange billet calipers feature unique o-ring grooves for consistent piston retraction
- Premium 206-T4 aluminum housing accepts 9", 9.50" and 10" development ring gears
- Rigid rear end design for increased gear life and consistent reaction
- Ribbed faceplate further enhances housing rigidity
- Lugged 4-link plates eliminates mounting hole elongation- prevents 4-link rotation
- Aluminum bottom 4-link brace included
- Integral wheelie bar mounts
- Black Enduraguard finish prevents corrosion and allows for easy cleaning
- Large ergonomic filler cap
- Available in 16" or 17" 4-link centers
- 32" or 33" wheel to wheel
- Choice of 4 3/4" or 5" bolt circle
- Includes pair of 40 spline gun-drilled axles
- Center housing is the same for both the floater and flanged axle versions
- Replacing outer components can change version, 4-link centers, & wheel to wheel widths

H1250 9" Modular Dragster Floater Rear End Assembly....... \$5,500 Includes housing, floater kit, stainless steel brake kit, & Hy-Tuf 40 spline floater axles (Mounting plates & center section sold separately)

H1250MPK1 4-Link mounting plate kit...... \$550



**DRAGSTER / ALTERED:** These housings are available in 26" or 27" widths with the pinion in the center. The 26" housing using Olds brake offset axles would result in 31.664" bare axle flange to axle flange, while the 27" would provide a 32.664" width. The 26" housing using special brake brackets would allow use of axles with an Early Big Ford offset of 2.332", achieving 30.664" bare axle flange to flange. Add your rotor hat

thickness to determine your final wheel to wheel. Housings ordered in solid mount are supplied with your choice of three plate designs. The distance between the 3/8" thick plates can be anywhere from 14 3/8" to 17" measured from inside of plate to inside of plate. 4-Link versions are limited to 17" centers and do not include the mounting plates. Chrome moly mounting plates are available separately.

**PACKAGES:** Packages are available that include a choice of a 26 or 27" wide housing, solid or 4-Link mount, 35 spline solid or 40 spline gun-drilled axles, Pro Steel brake kit, and come with or without a center section. The 26" housing package ordered with an Olds brake kit would result in 31.914" wheel mounting surface to mounting surface, while the 27" would provide a 32.914" width. The 26" housing package ordered with a special Early Big Ford brake kit would achieve a 30.914" wheel

mounting surface to mounting surface. The solid mount packages include choice of mounting plates. The 4-Link versions do not include mounting plates, but a set of chrome moly plates are available for an additional \$140. Options to the axles, brake kit, or center section can be ordered with the price difference added to the final cost of the assembly. See the appropriate sections in the catalog to compare options and pricing, or contact a Strange Engineering associate to discuss your requirements.

#### THE HOUSING ADVANTAGE: Aluminum

housings are more than just light. They allow thoughtful design to place more material where it is needed, and less where its not. The result is a housing that is extremely strong, but as light as possible. The casting receives an EnduraGuard coating before the machining process. This durable and attractive black finish resists corrosion, and is easy to keep clean. It also provides a good base for powdercoating for those who wish to change the color on their own. The housing is placed in a dedicated machining center which performs all operations start to finish. The advantage is a housing within tolerances that can't be achieved by a welded housing, providing precise alignment of the center section, axles, and brakes. They are also equipped with upper and lower mounting bosses to attach a chute or anti-rotational device. The housing features the EnduraGuard coating, fill plug, drain plug, and arrives with center section studs already installed.

# HOUSINGS

# 9" ALUMINUM DRAGSTER



Housing H1151 H1161	Dragster / Altered 26" housing on 17" centers for use with 4-Link plates Dragster / Altered 27" housing on 17" centers for use with 4-Link plates	
Option		HAA
H1150PH4	4-Link plate for H1151 / H1161 housing- 4 plates required	\$45 each
Housing H1152 H1162	Dragster / Altered 26" solid mount housing with choice of plates Dragster / Altered 27" solid mount housing with choice of plates	\$908 \$908
	Choice of type 1, 2, or 3 plate design- Specify inside of plate to plate dimension (from 14 3/8" to 17")	Included
Packages PRF300 PRF305	Choice of width, solid or 4-Link, Pro 35 spline axle package- P100758, and Pro Steel brake kit Choice of width, solid or 4-Link, Pro 35 spline axle package- P100758, Pro Steel brake kit, & PRF150 or PRF155 center section	58888
PRF310 PRF315	Choice of width, solid or 4-Link, Pro 40 spline axle package- P1014, and Pro Steel brake kit Choice of width, solid or 4-Link, Pro 40 spline axle package- P1014, Pro Steel brake kit, & PRF150 + OPRF01 or PRF155 + OPRF01- Center section with 40 spline spool option	~~~~
	Complete solid mount packages includes choice of plates and spacing	XXXX

Complete 4-Link packages do not include plates Add \$140 for set of four plates





Available HD Plates with adj shock mount option (shown left)

**PRO MOD:** These housings are designed for the most brutal Pro Mod applications. They are designed to accept an Ultra Case , HD Pro, or most heavy duty aftermarket cases. The housing has clearance to use 9", 9 1/2", and 10" development gear sets. The huge filler cap opening allows for inspection of the ring gear teeth without removing the center section. The drain plug features a magnet to retain harmful metallic particles. The upper wheelie bar mounts are cast directly into the main housing. These housings are available in 16", 17", 18", 19", 20", 21", 22", & 23" 4-Link centers. Chrome moly 4-Link mounts are not included but are available separately.

**MODULAR 4-LINK:** This housing comes in at the same weight as many Pro Stock fabricated steel housings, but doesn't flex under launch as they are prone to. The same ridged main housing is used as the Pro Mod rear, but accepts the Strange two piece axle assemblies. This combination provides alignment accuracies that are unobtainable with a welded housing, while ensuring free rotation of the axle assemblies. Designed to accept an Ultra Case, HD Pro, or most heavy duty aftermarket cases, the housing is clearanced to use 9", 9 1/2", and 10" development gear sets. The huge filler cap opening allows for inspection of the ring gear teeth without removing the center section. The drain plug features a magnet

**THE HOUSING ADVANTAGE:** The Ultra 4-Link Rear-Not Just your ordinary professional aluminum rear end! The strange Ultra Rear was specifically designed to meet the needs of the most abusive and demanding racers. The core of the Ultra Rear is crafted from superior 206-T4 heat treated aluminum. The premium aluminum has a 12% higher yield strength and a 32% higher tensile strength, compared to commonly used 356-T6 aluminum. In addition, the Strange casting is further enhanced by hot isostatic pressing (HIP). The HIP process subjects the casting to elevated temperatures and isostatic pressure which reduces or eliminates casting voids and microshrinkage, maximizes strength and ductility, and dramatically improves fatigue life. The HIP process is used in the aerospace The included floater hubs and drive plates can be ordered in 4 3/4", 5", or 5 1/2" bolt circle. Carbon brake housings come complete with 11" rotors, caliper mounts, calipers, and pads. Steel brake housings now have 11.5" stainless steel rotors, caliper mounts, calipers, and brake pads. Floater axles are in the Floater Kit section, while center sections choices are listed with the HD Pro, Ultra, & Billet Case assemblies.

to retain harmful metallic particles. The upper wheelie bar mounts are cast directly into the main housing. These housings are available in 16", 17", 18", 19", 20", 21", 22", & 23" 4-Link centers. Chrome moly 4-Link mounts are not included but are available separately. This housing is also packaged for those who already own the proper length Strange two piece axle kit and carbon brakes. It is supplied with special carbon caliper mounts to adapt to this housing. Center sections appropriate for this housing are listed with the HD Pro, Ultra, & Billet case assemblies.

industry and is not inexpensive, but is necessary when manufacturing an unrivaled rear end. Fully machined lightweight aluminum housing and components ensures precise alignment of wheels, as opposed to compromised welded steel housings, which are subject to heat distortion. Fully ribbed rigid housing design reduces deflection induced by hard launches and tire shake. The bottom brace is extended in close proximity to the shock mount for better support and the lower wishbone mount is designed for double shear loading vs. cantilever bending. The aluminum housing is coated with EnduraGuard, which offers unmatched corrosion protection and an attractive black finish.

# 9" ALUMINUM ULTRA 4-LINK

## PRO MOD HOUSING (Floater Housing)

16" 4 Link Centers	17" 4 Link Centers	18" 4 Link Centers	19" 4 Link Centers
31.75″ WTW	32.75″ WTW	33.75″ WTW	34.75″ WTW
33.25″ WTW	34.25″ WTW	35.25″ WTW	36.25″ WTW
33.75″ WTW	34.75″ WTW	35.75″ WTW	36.75″ WTW
41.00" WTW*	42.00" WTW*	43.00" WTW*	44.00" WTW*

\* 4 3/4" & 5" BC'S ONLY

20" 4 Link Centers	21" 4 Link Centers	22" 4 Link Centers	23" 4 Link Centers
35.75″ WTW	36.75″ WTW	37.75″ WTW	38.75″ WTW
37.25″ WTW	38.25″ WTW	39.25″ WTW	40.25″ WTW
37.75″ WTW	38.75″ WTW	39.75″ WTW	40.75″ WTW
45.00" WTW*	46.00" WTW*	47.00" WTW*	48.00" WTW*

\* 4 3/4" & 5" BC'S ONLY

WTW dimensions are unaffected by brakes

## MODULAR 4-LINK HOUSING (2 Piece Flanged Axles)

16" 4 Link Centers	17" 4 Link Centers	18" 4 Link Centers	19" 4 Link Centers
31.50″ WTW	32.50" WTW	33.50″ WTW	34.50" WTW
32.50″ WTW	33.50″ WTW	34.50″ WTW	35.50″ WTW

20" 4 Link Centers	21" 4 Link Centers	22" 4 Link Centers	23" 4 Link Centers
35.50″ WTW	36.50" WTW	37.50" WTW	38.50" WTW
36.50″ WTW	37.50″ WTW	38.50" WTW	39.50" WTW

H1180	Modular 4-Link housing with floater kit and carbon brake kit Choice of 4 3/4", 5", or 5 1/2" bolt circle <sup>.</sup> No plates, axles, or center section	\$8,250
H1182	Pro Mod housing with floater kit and stainless steel brake kit Choice of 4 3/4", 5", or 5 1/2" bolt circle <sup>.</sup> No plates, axles, or center section	\$6,250
H1190	Modular 4-Link housing with two piece axles and carbon brake kit Choice of 4 3/4" or 5" bolt circle: No plates or center section	\$7,635
H1192	Modular 4-Link housing with two piece axles and two piece stainless steel brake kit Choice of 4 3/4" or 5" bolt circle· No plates or center section	\$5,635
H1194	Modular 4-Link housing with caliper mounts- No plates, axles, brakes, or center section	\$3,535
OPRH40	Supply with Std duty chrome moly 4-link plates	
OPRH44	Supply with HD chrome moly 4-link plates	
OPRH45	Supply with HD chrome moly 4-link plates & adjustable shock mounts \$1,600	

# SONISTICH

**S60 BARE HOUSINGS** 



**BARE CASTINGS:** The Strange S60 casting is a vast improvement over the factory Dana 60, while still accepting the same components. The casting and oversized main caps are constructed from a proprietary nodular iron which is substantially stronger than cast iron. This has allowed the casting to be made not only thinner and lighter, but also stronger. The heavy duty main caps are fitted with adjuster nuts that eliminate the side carrier shims. Backlash and preload are adjusted by a

turn of a wrench, greatly reducing the time and effort to change a gear or differential. All castings feature a drain plug located at the bottom. Mopar applications have a machined provision to accept factory or aftermarket pinion snubbers. GM F-body applications have the torque arm mounting location cast into the unit, while A-body and G-body feature the upper control mounts.

**WELDED HOUSINGS:** All below housings begin with the S60 bare casting as described above. The 3" 0.D. mild steel tubing, .250" wall thickness, is pressed deep into the casting. A welding fixture is attached and the tubes are welded 360 degrees around the outside of the casting and plug welded. The mounts are positioned by

**HOUSING TUBED:** The S60 casting is fitted with 3"x.250" wall mild steel tubing and welded & plugged as described above. A housing like this is for a builder that will be installing their own mounts and may

the jig and welded to the tubes. The housing ends are installed after all other welding is complete, ensuring perfect alignment with the carrier. An optional satin black powdercoat finish is available on completely welded housings.

also trim the tubing further. An alignment jig will be required to install the housing ends after all other welding has been completed.

**HOUSING WITH ENDS- NO MOUNTS:** The S60 casting is fitted with 3".250 wall mild steel tubing and fixture welded with your choice of housing ends. Since the builder will be installing

**HOUSING WITH MOUNTS- NO ENDS:** The S60 casting is fitted with 3" .250 wall mild steel tubing and fixture welded with your choice of mounts. A builder might order this if they are unsure of the final width, or already has housing ends and an alignment jig. It may

their own mounts, extreme care must be taken during the welding process as housing end alignment can be compromised. An alignment jig should be used afterwards to ensure that warping did not occur.

also be the base for a housing that will use a floater kit. Strange floater spindles can be fitted and welded for an additional charge. A fully welded housing with spindles can also be ordered with an optional satin black powdercoat finish.

**HOUSING WITH ENDS AND MOUNTS:** The S60 casting is fitted with 3".250 wall mild steel tubing and fixture welded with your choice of mounts and housing ends. This configuration is the

safest way to maintain the proper alignment since welding of the housing ends is always our last operation. An optional satin black powdercoat finish is also available.



# S60 BARE HOUSINGS

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H1109A* H1107A	Bare Mopar casting for use with 3" O.D. tubes Bare GM A-body casting for use with 3" O.D. tubes		\$535
H1108A	Bare GM G-body casting for use with 3" O.D. tubes		\$535
H1105A	Bare GM F-body casting for use with 3" O.D. tubes	\$550	
			and the
H60*	Mopar casting tubed- No ends or mounts	\$575	
H60E*	Mopar casting with ends- No mounts		( second
		1000	-
H6OL	Mopar casting with leaf spring mounts- No ends	\$605	-
			0
H60LE	Mopar casting with leaf spring mounts, and ends	\$780	100
			199
H60GA	GM A-body casting tubed- No mounts or ends	\$625	
H60GAE	GM A-body casting with ends- No mounts	\$714	
H60GAM	GM A-body casting with mounts- No ends	\$750	
H60GAME	GM A-body casting with mounts and ends		
H60GG	GM G-body casting tubed- No mounts or ends	\$625	
H60GGE	GM G-body casting with ends- No mounts		\$714
H60GGM	GM G-body casting with cluss no mounts - GM G-body casting with mounts- No ends		
H60GGME	GM G-body casting with mounts and ends		\$839
H60GF	GM F-body casting tubed- No mounts or ends		1
H60GFE	GM F-body casting with ends- No mounts	\$658	
H60GFM	GM F-body casting with mounts- No ends	\$880	-
H60GFME	GM F-body casting with mounts and ends	\$950	A DEC
			3

\*Can be used for Mopar or any leaf spring application

#### Options

H1199P-BLK	Powder coat housing satin black	\$159
H1130DF	Install Drag Race floater spindles- Labor only	\$200
H1130SF	Install Pro Touring floater spindles- Labor only \$150	and the second
H1109D	Adjuster nut wrench for S60\$37	

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## **12 BOLT BARE HOUSINGS**



**BARE CASTING:** The Strange 12 bolt casting is much stronger than the OEM 12 bolt, while still accepting the same components. The casting is poured from proprietary nodular iron which is substantially stronger than cast iron. The main caps are constructed from forged chrome moly instead of cast iron like the originals. These improvements in materials have allowed the casting to be made not only thinner and lighter,

but also stronger. The casting is machined to accept 3" 0.D. tubing, has a torque arm mount cast as part of the case, and a location for a Strange 3 channel sensor. It is designed as an F-body replacement for the extremely weak 7.625", but can also be used as an upgraded 12 bolt in any leaf spring application.

**WELDED HOUSINGS:** All below housings begin with the Strange 12 bolt casting as described above. The 3" 0.D. mild steel tubing, .250" wall thickness, is pressed deep into the casting. A welding fixture is attached and the tubes are welded 360 degrees around the outside of the casting and plug welded. The mounts are

**HOUSING TUBED:** The Strange 12 bolt casting is fitted with 3" x .250" wall mild steel tubing and welded & plugged as described above. A housing like this is for a builder that will be installing their own mounts

positioned by the jig and welded to the tubes. The housing ends are installed after all other welding is complete, ensuring perfect alignment with the carrier. An optional satin black powdercoat finish is available on completely welded housings.

and may also trim the tubing further. An alignment jig will be required to install the housing ends after all other welding has been completed.

**HOUSING WITH ENDS- NO MOUNTS:** The Strange 12 bolt casting is fitted with 3" .250 wall mild steel tubing and fixture welded with your choice of housing ends. Since the builder will be installing their own mounts, extreme care must be taken during

**HOUSING WITH MOUNTS- NO ENDS:** The Strange 12 bolt casting is fitted with 3" .250 wall mild steel tubing and fixture welded with your choice of mounts. A builder might order this if they are unsure of the final width, or already has housing ends and an alignment jig. the welding process as housing end alignment can be compromised. An alignment jig should be used afterwards to ensure that warping did not occur.

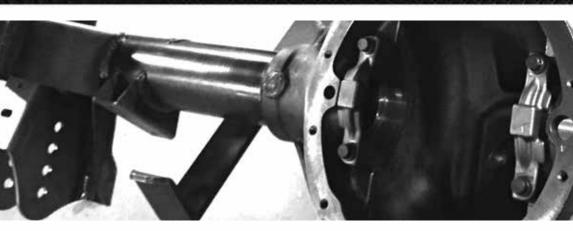
It may also be the base for a housing that will use a floater kit. Strange floater spindles can be fitted and welded for an additional charge. A fully welded housing with spindles can also be ordered with an optional satin black powdercoat finish.

**HOUSING WITH ENDS AND MOUNTS:** The Strange 12 bolt casting is fitted with 3" .250 wall mild steel tubing and fixture welded with your choice of mounts and housing ends. This

configuration is the safest way to maintain the proper alignment since welding of the housing ends is always our last operation. An optional satin black powdercoat finish is also available.



# 12 BOLT BARE HOUSINGS



H1106A*	Bare 12 bolt F-body casting for use with 3" O.D. tubes	\$695
H12F* H12FE*	12 bolt F-body casting tubed- No ends or mounts 12 bolt F-body casting with ends- No mounts	
H12FL H12FLE	12 bolt F-body casting with leaf spring mounts- No ends 12 bolt F-body casting with leaf spring mounts and ends	
H12FM H12FME	12 bolt F-body casting with F-body mounts- No ends 12 bolt F-body casting with F-body mounts and ends	
	*Can be used for F-body or any leaf spring application	

#### Options

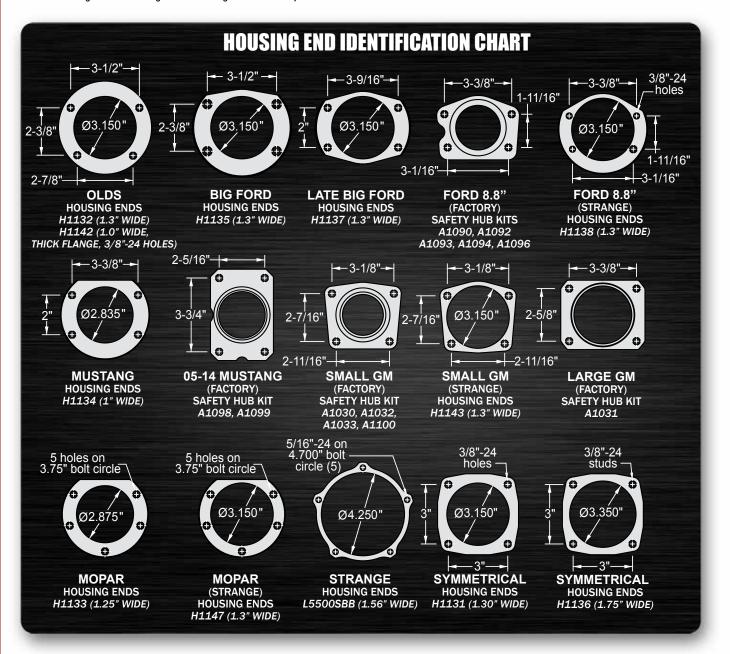
H1199P-BLK	Powder coat housing satin black	\$159
H1130DF	Install Drag Race floater spindles- Labor only	\$200
H1130SF	Install Pro Touring floater spindles- Labor only	\$150

## **ENDS & COMPONENTS**



**HOUSING ENDS:** Strange housing ends are machined from MADE IN THE USA forged steel. These premium grade ends are ideal for a new or existing housing that needs to be narrowed. They provide an optimal mounting surface for the brakes to keep in proper alignment with the axle bearing. These housing ends are designed to be easily butt welded

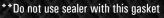
with the proper equipment. An alignment bar is required to properly install any housing ends. Many ends are now designed to accept an inner seal. This arrangement might require a specific seal and locking collar for the axle bearing. Contact a Strange representative if you intend to use an inner seal to discuss your intentions.



H1131	Symmetrical housing ends (tapped)	3.150 bore	3/8 x 24	1.300" wide\$100
H1132	Olds housing ends	3.150 bore	3/8 holes	1.300" wide \$95
H1142	Olds housing ends (tapped)	3.150 bore	3/8 x 24	1.300" wide \$100
H1143*	Small GM housing ends	3.150 bore	3/8 holes	1.300" wide \$95
H1144*	Small GM housing ends (ABS clearanced)	3.150 bore	3/8 holes	1.300" wide \$95
H1133	Mopar housing ends	2.875 bore	3/8 holes	1.250" wide \$95
H1147*	Mopar housing ends (special bore)	3.150 bore	3/8 holes	1.300" wide \$100
H1134*	Small Ford housing ends	2.834 bore	3/8 holes	1.000" wide \$95
H1135	Big Ford housing ends	3.150 bore	1/2 holes	1.300" wide \$95
H1136*	Symmetrical Big Bore housing ends (tapped)	3.350 bore	3/8 x 24	1.750" wide \$175
H1146*	Symmetrical BB housing ends for 3 1/2" tube	3.350 bore	3/8 x 24	1.750" wide \$219
H1137	Late Big Ford housing ends	3.150 bore	3/8 holes	1.300" wide \$95
H1138*	'87-'93 Mustang 8.8 housing ends	3.150 bore	3/8 holes	1.300" wide \$95
H1148**	'05-'14 Mustang 8.8 housing ends	3.150 bore	3/8 holes	1.300" wide \$100

\* Requires custom axles made specifically for this end \*\*Requires custom axles & B1706MC kit

	B1300HSTKIT	3/8" housing end tee bolt kit- includes washers and lock nuts for 8 holes	\$31
	H1133STKIT	3/8" housing end tee bolt kit- includes washers and lock nuts for 10 holes	\$38
Ś.	H1135STKIT	1/2" housing end tee bolt kit- includes washers and lock nuts for 8 holes	\$46
	H1112A	9" press-in center section housing stud- each	\$2
	F1282	9" press-in center section housing stud- each	\$2
	H1112G	Fel Pro 9" center section gasket	
	H1111**	Fel Pro high performance 9" Teflon Center Section gasket	\$15
X	H1111S**	LubeLocker Premium Gasket	\$25
	D3508	Fel Pro S60 / Dana 60 cover gasket	\$9
5	D3508F**	Fel Pro S60 / Dana 60 high performance Teflon gasket	
	H1106G	Fel Pro 12 bolt passenger car cover gasket	\$9
	50000		







**COMPLETE ASSEMBLY:** Our highly trained professional tradesmen construct a custom rear end that will meet or exceed your expectations. The housing is fixture welded to ensure proper alignment of all components. The appearance and quality of welds show the care that was taken by our welding department. The technician that assembles your rear end is a member of the same team that's responsible for all our high

end Pro Stock, Pro Mod, and Top Fuel rear ends. A completed rear end gives comfort in the knowledge that everything was thoroughly inspected and checked before it reached your door. The assembly arrives boxed in a custom crate to protect your investment. Optional satin black powder coating is offered on completely welded housings.

**ORDERING:** If ordering a replacement rear end, we have extensive information on stock factory units. You might consider calling us first to obtain our information so you can verify before ordering. If you are considering new tires and wheels, this is the time to make adjustments to properly place them within the wheel wells. Any decision regarding the brakes must be made now as it will affect construction of the rear end.

The best method, is to place your tires and wheels within the wheel wells and measure wheel mounting surface to wheel mounting surface. If you are purchasing a brake kit from Strange along with your housing, this is the dimension you want to specify. If not, subtract the thickness of the brake drum or rotor you are going to use to arrive at bare axle flange to axle flange. It is important to relate the dimension you are supplying is "wheel mounting surface" or "bare axle flange". The brake kit you are going to use needs to be finalized before the rear end is ordered. Some rotors will add as little as 1/8"per side, while others can add up to 1/2". The brake kit will determine the housing end required and brake offset. Brake offset is the measurement from the outside face of the bare axle flange, to the outside face of the housing end. Brake thickness and axle offset will determine how wide the housing needs to be to achieve the desired wheel mounting location. Make sure to check the brake kit instructions for any special requirements. Some may need a specific axle flange diameter, brake register size, or access hole.

Strange Engineering sales staff is always happy to guide you through the ordering process, even if you are ordering from one of our many valued distributors. We will ensure you are not only well informed, but also confident that you will be receiving a product that will deliver many years of enjoyment and satisfaction.

**PINION OFFSET:** Pinion location can be confusing to measure. If this is a replacement rear, and the motor and transmission are in the factory location, it can be ordered with the stock factory pinion offset. If unsure, measurements can be taken from the axle flanges or housing ends. Since we are determining differences, either is fine as long as we are comparing axle flange or housing end measurements. Measure from driver side to the center of the pinion nut, and passenger side to center of

the pinion nut. Subtract and divide by two. This is your pinion offset and it is offset to the side that had the smallest number. If both are equal, then it is a centered pinion. Most factory rear ends will be offset to the passenger side since the motor and transmission are also. The design is to keep the driveshaft aligned with the motor and transmission to avoid vibration and poor service life of the u-joints and gear set.

**PINION ANGLE:** If this is a replacement rear end, factory pinion angle is assumed unless specified otherwise. A custom pinion angle is ordered only in some leaf spring applications. Extreme care must be taken as pinion angle is commonly misunderstood. Pinion angle is determined by a calculation that compares the angle of the motor and transmission to the angle of the pinion shaft. It is measured once the motor, transmission,

driveshaft, rear end, and tires and wheels are installed. The vehicle must be on level ground, at ride height, with the full weight of the car resting on all four tires. Where the leaf spring mounts are welded in relationship to pinion centerline is only one of the many factors that will result in a specific pinion angle. Any custom pinion angle should be discussed with a Strange Engineering associate before ordering.

#### **BOLT-IN APPLICATIONS**

Make	Model	Years	Ava	ilable	Rear Ends	Make	Model	Years	Avail	lable Re	ear Ends
GM	Blazer (Full Size)	73-91 <b>92-94</b>	9" 9"	S60 S60			Nova <b>Regal</b>	68-79 <b>73-77</b>	9" 9"	<b>S60</b>	12 blt
	Blazer (S10-2WD)	82-94	9″		12 blt			78-87	9″	<b>S60</b>	
	C10 Truck	67-72	9″	S60			S10-2WD	82-04	9″		12 blt
	C10 / K10 Truck	73-87	9″	S60			Skylark	64-72	9″	S60	
	C15 Truck	88-98	9″	S60			Suburban	73-91	9″	S60	
	K15 Truck	88-98		S60			Tempest	64-67	9″	S60	
	2WD Tahoe/Suburban	95-99	9″	S60							
	4WD Tahoe/Suburban	95-99		S60		Ford	Capri	79-86	9″		
	Camaro	67-81	9″		12 blt		Cobra Jet	08,10,12,16	9″		
		82-02		<b>S60</b>	12 blt		Comet	66-69	9″		
		10-15		<b>S60</b>			Cougar	67-70	9″		
	Caprice	65-70	9″				Fairlane	66-70	9″		
	Chevelle	64-72	9″	<b>S60</b>			Mustang	64-73	9″		
		73-77	9″				Fox body	79-93	9″		
	Chevrolet	55-57	9″		12 blt		SN-95	94-04	9″		
	Chevy II	62-67	9″		12 blt		S-197	05-14	9″		
	Cutlass	64-72	9″	<b>S60</b>			Ranchero	71-73	9″		
		73-77	9″				Shelby GT500	07-14	9″		
		78-88	9″	<b>S60</b>			Torino	68-73	9″		
	El Camino	64-72	9″	<b>S60</b>							
		73-77	9″			Mopar	Barracuda	64-74	9″	<b>S60</b>	
		78-87	9″	<b>S60</b>			Belvedere	68-75	9″	<b>S60</b>	
	Firebird	67-81	9″	<b>S60</b>	12 blt		Challenger	70-74	9″	<b>S60</b>	
		82-02		<b>S60</b>	12 blt		Charger	66-78	9″	<b>S60</b>	
	Gran Prix	69-72	9″	<b>S60</b>			Coronet	65-79	9″	<b>S60</b>	
		73-77	9″				Dart	64-76	9″	S60	
		78-86	9″	<b>S60</b>			Duster	70-76	9″	<b>S60</b>	
	GTO	68-72	9″	<b>S60</b>			Fury	65-79	9″	<b>S60</b>	
	Impala	59-70	9″				GTX	67-71	9″	S60	
	Lemans	64-72	9″	<b>S60</b>			R/T	65-79	9″	<b>S60</b>	
		73-77	9″				Road Runner	68-79	9″	<b>S60</b>	
		78-81	9″	<b>S60</b>			Satellite	65-72	9″	<b>S60</b>	
	Malibu	64-72	9″	<b>S60</b>			Scamp	71-76	9″	<b>S60</b>	
		73-77	9″				Super Bee	68-79	9″	<b>S60</b>	
		78-87	9″	<b>S60</b>			Swinger	69-76	9″	<b>S60</b>	
	Monte Carlo	70-72	9″	<b>S60</b>			Valiant	70-76	9″	<b>S60</b>	
		73-77	9″								
		78-88	9″	<b>S</b> 60		100					

Custom widths are available at no additional charge New applications are constantly being added - Please call if you do not see your vehicle

## 9" STREET | TRACK HOUSINGS



#### FORD / GM / MOPAR BOLT-IN ASSEMBLIES:

Complete Ford 9" rear ends are a combination of a housing, center section, axle package, and brake kit. Since the possibilities are endless, it is necessary to choose all of the components and total them to arrive at your desired assembly. Whenever a housing, center section, and axle package are ordered together, they are assembled as one unit and crated. Purchased brake kits can be installed for an additional \$25. In these examples, the brake kit prices include the \$25 charge.

Listed are samples of possible combinations. Options for housing, center section, axle package, and brake kit, are listed within their respective sections.

#### Custom widths are available at no additional charge

## STREET

Ford / GM / Mopar leaf spring housing- HF9LE / S-Series iron center with clutch posi unit- PRF130 / 31 spline alloy axle package- P3102 ...... \$2,399

#### **Popular Options**

Housing	Upgrade to Ultra Fab housing	\$500
0	Powder coat satin black- H1199P-BLK	
Eaton 31 spline	helical gear Truetrack- OPRFO9	. \$200
Center Section	HD Pro Aluminum - Replace PRF130 with PRF180	\$330

Brakes	Wilwood 11" Pro street disc brake kit installed	\$624
	Wilwood 12" Pro Street disc brake kit installed	\$775
	Late Big Ford 11" drum brake kit installed	\$520

Brake kit prices include \$25 installation charge See Brake Section for More Brake Options

# STREET/TRACK

X	Ford / GM / Mopar leaf spring housing- HF9LE / Pro Iron center with upgrades / 35 spline alloy axle package- P3502 \$	\$2,941*	\$3,051**	
>	Mustang 1979-2004 housing- HF9M86ME / Pro Iron center with upgrades / 35 spline alloy axle package- P3502\$ Mustang 2005-2014 housing- HF9M05ME / Pro Iron center with upgrades / 35 spline alloy axle package- P3502\$		\$3,211** \$3,211**	
) >	GM A-body housing- HF9GAME / Pro Iron center with upgrades / 35 spline alloy axle package- P3502\$ GM G-body housing- HF9GGME / Pro Iron center with upgrades / 35 spline alloy axle package- P3502\$			\$3,172

\* Pro Iron center- PRF120 with Eaton 35 spline cast iron Truetrack- OPRF11 and Strange black support- OPRF16

\*\* Pro Iron center- PRF120 with Strange 35 spline forged steel helical gear S-Trac- OPRF10 and Strange black support- OPRF16

### **Popular Options**

Housing	Upgrade to Ultra Fab housing Powder coat satin black- H1199P-BLK	
Yoke	Chrome moly yoke- OPRF07	\$36
Center Section	HD Pro Aluminum center section Replace PRF120 with PRF180 With same differential upgrades	\$247

#### **BRAKE KIT OPTIONS**

Brakes	Wilwood 11" Pro Street disc brake kit installed	\$624
	Wilwood 12" Pro Street disc brake kit installed	\$775
	Late Big Ford 11" Drum brake kit installed	\$520

Brake kit prices include \$25 installation charge See Brake Section for More Brake Options '2'

## 9" DRAG RACE WITH PRO IRON CENTER SECTION



#### FORD / GM / MOPAR BOLT-IN ASSEMBLIES:

Complete Ford 9" rear ends are a combination of a housing, center section, axle package, and brake kit. Since the possibilities are endless, it is necessary to choose all of the components and total them to arrive at your desired assembly. Whenever a housing, center section, and axle package are ordered together, they are assembled as one unit and crated. Purchased brake kits can be installed for an additional \$25. In these examples, the brake kit prices include the \$25 charge.

Listed are samples of possible combinations. Options for housing, center section, axle package, and brake kit, are listed within their respective sections.

Custom widths are available at no additional charge

# **DRAG RACE - 35 SPLINE AXLES**

Bare 9" h	iousing without mounts- HF9E / Pro Iron center with standard gear- PRF105 / 35 spline Pro Race axle package- P1007 \$3	2,359
Ford / GN	1 / Mopar leaf spring housing- HF9LE / Pro Iron center with standard gear- PRF105 / 35 spline Pro axle package- P1007 \$:	2,459
	1979-2004 housing- HF9M86ME / Pro Iron center with standard gear- PRF105 / 35 spline Pro Race axle package- P1007 \$2 2005-2014 housing- HF9M05ME / Pro Iron center with standard gear- PRF105 / 35 spline Pro Race axle package- P1007 \$2	
	dy housing- HF9GAME / Pro Iron center with standard gear- PRF105 / 35 spline Pro axle package- P1007	2,629 2,629

#### **Popular Options**

Housing	Upgrade to Ultra Fab housing\$50 Install back brace- H1128N\$18 Powder coat satin black- H1199P-BLK\$15	5
Center Section	Option for Small stem Pro gear- Replace PRF105 with PRF115\$13 Option for Large stem Pro gear- Replace PRF105 with PRF115 + OPRF05\$18	
Axles	Option for 5/8" stud kit- Replace P1007 with P100758 \$54	
Brakes	Pro Race disc brake kit installed\$620 Dual Pro Race disc kit installed\$1,045 Pro Carbon disc brake installed\$2,975	

Brake kit prices include \$25 installation charge - See Brake Section for More Brake Options

# **DRAG RACE - 40 SPLINE AXLES**

Bare 9" housing without mounts- HF9E / Pro Iron center with upgrade * / 40 spline solid Pro Race axle package- P1016 Ford / GM / Mopar leaf spring housing- HF9LE / Pro Iron center with upgrade * / 40 spline solid Pro Race axle package- P1016	
Mustang 1979-2004 housing- HF9M86ME / Pro Iron center with upgrade * / 40 spline solid Pro Race axle package- P1016 Mustang 2005-2014 housing- HF9M05ME / Pro Iron center with upgrade * / 40 spline solid Pro Race axle package- P1016	
GM A-body housing- HF9GAME / Pro Iron center with upgrade * / 40 spline solid axle package- P1016 GM G-body housing- HF9GGME / Pro Iron center with upgrade * / 40 spline solid axle package- P1016	\$2,814 \$2,814

\* Pro Iron center with standard gear- PRF105 + 40 spline spool upgrade- OPRF01

#### **Popular Options**

Housing	Upgrade to Ultra Fab housing
Center Section	Option for Small stem Pro gear- Replace PRF105 + OPRF01 with PRF115 + OPRF01\$136 Option for Large stem Pro gear- Replace PRF105 + OPRF01 with PRF115 + OPRF01 + OPRF05\$186
Axles	Option for Gun-drilled axles - Replace P1016 with P1014 \$81
Brakes	Pro Race disc brake kit installed

Brake kit prices include \$25 installation charge - See Brake Section for More Options



# 9" DRAG RACE WITH LW ALUMINUM CENTER SECTION

#### Ford / GM / Mopar Bolt-in Assemblies:

Complete Ford 9" rear ends are a combination of a housing, center section, axle package, and brake kit. Since the possibilities are endless, it is necessary to choose all of the components and total them to arrive at your desired assembly. Whenever a housing, center section, and axle package are ordered together, they are assembled as one unit and crated. Purchased brake kits can be installed for an additional \$25. In these examples, the brake kit prices include the \$25 charge.

Listed are samples of possible combinations. Options for housing, center section, axle package, and brake kit, are listed within their respective sections.

Custom widths are available at no additional charge

# **DRAG RACE - 35 SPLINE AXLES**

Bare 9" housing without mounts- HF9E / L/W Aluminum center with standard gear- PRF155 / 35 spline Pro Race axle package- P1007	\$2,430
Ford / GM / Mopar leaf spring housing- HF9LE / L/W Aluminum center with standard gear- PRF155 / 35 spline Pro axle package- P1007	\$2,530
Mustang 1979-2004 housing- HF9M86ME / L/W Aluminum center with standard gear- PRF155 / 35 spline Pro axle package- P1007 Mustang 2005-2014 housing- HF9M05ME / L/W Aluminum center with standard gear- PRF155 / 35 spline Pro axle package- P1007	
GM A-body housing- HF9GAME / L/W Aluminum center with standard gear- PRF155 / 35 spline Pro axle package- P1007	

#### **Popular Options**

Housing	Upgrade to Ultra Fab housing Install back brace- H1128N Powder coat satin black- H1199P-BLK	\$185
Center Section	Option for Small stem Pro gear- Replace PRF155 with PRF165 Option for Large stem Pro gear- Replace PRF155 with PRF165 + OPRF05	
Axles	Option for 5/8" stud kit- Replace P1007 with P100758\$54	
Brakes	Pro Race disc brake kit installed\$620 Dual Pro Race disc kit installed\$1,045 Pro Carbon disc brake installed\$2,975	

Brake kit prices include \$25 installation charge See Brake Section for More Brake Options

# **DRAG RACE - 40 SPLINE AXLES**

8	Bare 9" housing without mounts- HF9E / L/W Aluminum center with upgrade * / 40 spline solid Pro Race axle package- P1016\$2,61	5
) s	Ford / GM / Mopar leaf spring housing- HF9LE / L/W Aluminum center with upgrade * / 40 spline solid Pro axle package- P1016\$2,71	5
\$ \$	Mustang 1979-2004 housing- HF9M86ME / L/W Aluminum center with upgrade * / 40 spline solid Pro axle package- P1016\$2,87 Mustang 2005-2014 housing- HF9M05ME / L/W Aluminum center with upgrade * / 40 spline solid Pro axle package- P1016\$2,87	
	GM A-body housing- HF9GAME / L/W Aluminum center with upgrade * / 40 spline solid Pro axle package- P1016\$2,88 GM G-body housing- HF9GGME / L/W Aluminum center with upgrade * / 40 spline solid Pro axle package- P1016\$2,88	

\* Lightweight Aluminum center section with standard gear- PRF155 with 40 spline spool upgrade- OPRF01

#### **Popular Options**

Housing	Upgrade to Ultra Fab housing
Center Section	Option for Small stem Pro gear- Replace PRF155 + OPRF01 with PRF165 + OPRF01 \$129 Option for Large stem Pro gear- Replace PRF155 + OPRF01 with PRF165 + OPRF01 + OPRF05 \$179
Axles	Option for Gun-drilled axles- Replace P1016 with P1014 \$81
Brakes	Pro Race disc brake kit installed \$620 Dual Pro Race disc kit installed \$1,045 Pro Carbon disc brake installed \$2,975

Brake kit prices include \$25 installation charge See Brake Section for More Brake Options





Complete Ford 9" rear ends are a combination of a housing, center section, axle package, and brake kit. Since the possibilities are endless, it is necessary to choose all of the components and total them to arrive at your desired assembly. Whenever a housing, center section, and axle package are ordered together, they are assembled as one unit and crated. Purchased brake kits can be installed for an additional \$25. In these examples, the brake kit prices include the \$25 charge.

Listed are samples of possible combinations. Options for housing, center section, axle package, and brake kit, are listed within their respective sections.

Custom widths are available at no additional charge

# **Drag Race - 35 spline axles**

Bare 9" housing without mounts- HF9E / HD Pro Aluminum center with sta	andard gear- PRF184 / 35 spline Pro axle package- P1007 \$2,575
Ford / GM / Mopar leaf spring housing- HF9LE / HD Pro Aluminum center v	vith standard gear- PRF184 / 35 spline Pro axle package- P1007 \$2,675
	n standard gear- PRF184 / 35 spline Pro axle package- P1007 \$2,835 n standard gear- PRF184 / 35 spline Pro axle package- P1007 \$2,835
	ear· PRF184 / 35 spline Pro axle package· P1007\$2,845 ear· PRF184 / 35 spline Pro axle package· P1007\$2,845

#### **Popular Options**

Housing	Upgrade to Ultra Fab housing
Center Section	Small stem pro gear- Replace PRF184 with PRF188\$151Large stem pro gear- Replace PRF184 with PRF188 + OPRF05\$2019 1/2" large stem pro- Replace PRF184 with PRF188 + OPRF52\$321
Axles:	5/8" stud kit- Replace P1007 with P100758 \$54
Brakes	Pro Race disc brake kit installed \$620 Dual Pro Race disc kit installed \$1,045 Pro Carbon disc brake installed \$2,975

Brake kit prices include \$25 installation charge - See Brake Section for More Brake Options

## 9" DRAG RACE WITH HD ALUMINUM CENTER SECTION

# **Drag Race - 40 Spline Axles**

Bare 9" housing without mounts- HF9E / HD Pro Aluminum center with upgrade * / 40 spline solid Pro axle package- P1016	\$2,760
Ford / GM / Mopar leaf spring housing- HF9LE / HD Pro Aluminum center with upgrade * / 40 spline solid Pro axle package- P1016	\$2,860
Mustang 1979-2004 housing- HF9M86ME / HD Pro Aluminum center with upgrade * / 40 spline solid Pro axle package- P1016 Mustang 2005-2014 housing- HF9M05ME / HD Pro Aluminum center with upgrade * / 40 spline solid Pro axle package- P1016	
GM A-body housing- HF9GAME / HD Pro Aluminum center with upgrade * / 40 spline solid Pro axle package- P1016 GM G-body housing- HF9GGME / HD Pro Aluminum center with upgrade * / 40 spline solid Pro axle package- P1016	\$3,030 \$3,030

\* HD Pro Aluminum center with standard gear- PRF184 with 40 spline spool option- OPRF01

#### **Popular Options**

Housing	Upgrade to Ultra Fab housing
Center Section	Small stem pro gear- Replace PRF184 + OPRF01 with PRF188 + OPRF01\$151Large stem pro gear- Replace PRF184 + OPRF01 with PRF188 + OPRF01 + OPRF05\$2019 1/2" large stem pro- Replace PRF184 + OPRF01 with PRF188 + OPRF01 + OPRF52\$321
Axles:	Gun-drilled axles- Replace P1016 with P1014 \$81
Brakes	Pro Race disc brake kit installed \$620 Dual Pro Race disc kit installed \$1,045 Pro Carbon disc brake installed \$2,975

Brake kit prices include \$25 installation charge See Brake Section for More Brake Options



## 9" DRAG RACE WITH ULTRA CASE CENTER SECTION



#### Ford / GM / Mopar Bolt-in Assemblies & Bare: Complete Ford 9" rear ends are a combination of a housing, center section, axle package, and brake kit. Since the possibilities are endless,

it is necessary to choose all of the components and total them to arrive

at your desired assembly. Whenever a housing, center section, and axle package are ordered together, they are assembled as one unit and crated. Purchased brake kits can be installed for an additional \$25. In these examples, the brake kit prices include the \$25 charge.

Listed are samples of possible combinations. Options for housing, center section, axle package, and brake kit, are listed within their respective sections.

Custom widths are available at no additional charge

# Drag Race - 35 spline axles

Bare 9" housing without mounts- HF9E / Ultra Case center with small stem pro gear- PRF205 / 35 spline Pro axle package- P1007	\$2,830
Ford / GM / Mopar leaf spring housing- HF9LE / Ultra Case center with small stem pro gear- PRF205 / 35 spline Pro axle package- P1007	\$2,930
Mustang 1979-2004 housing- HF9M86ME / Ultra Case center with small stem pro gear- PRF205 / 35 spline Pro axle package- P1007 Mustang 2005-2014 housing- HF9M05ME / Ultra Case center with small stem pro gear- PRF205 / 35 spline Pro axle package- P1007	
GM A-body housing- HF9GAME / Ultra Case center with small stem pro gear- PRF205 / 35 spline Pro axle package- P1007 GM G-body housing- HF9GGME / Ultra Case center with small stem pro gear- PRF205 / 35 spline Pro axle package- P1007	\$3,100 \$3,100

#### **Popular Options**

Housing:	Upgrade to Ultra Fab housing Install back brace- H1128N Powder coat satin black- H1199P-BLK	\$185	
Center Section:	Large stem pro gear- Add option OPRF05	\$50	
	9 1/2" large stem pro- Add option OPRF52	\$170	
	1480 chrome moly yoke- Add option OPRF20		
Axles:	5/8" stud kit- Replace P1007 with P100758	\$54	
Brakes	Pro Race disc brake kit installed \$620	- 1	
	Dual Pro Race disc brake kit installed \$1,045		
	Pro Carbon disc brake kit installed\$2,975		
Desta bit misse include AOE installation shows			

Brake kit prices include \$25 installation charge See Brake Section For More Brake Options



## 9" DRAG RACE WITH ULTRA CASE CENTER SECTION

# Drag Race - 40 Spline Axles

Bare 9" housing without mounts- HF9E / Ultra Case center with upgrade * / 40 spline solid Pro axle package- P1016	\$3,015
Ford / GM / Mopar leaf spring housing- HF9LE / Ultra Case center with upgrade * / 40 spline solid Pro axle package- P1016	\$3,115
Mustang 1979-2004 housing- HF9M86ME / Ultra Case center with upgrade * / 40 spline solid Pro axle package- P1016 Mustang 2005-2014 housing- HF9M05ME / Ultra Case center with upgrade * / 40 spline solid Pro axle package- P1016	\$3,275 \$3,275
	\$3,285 \$3,285

\* 3.250" bore Ultra Case center with small stem pro gear- PRF205 with 40 spline spool option- OPRF01

#### **Popular Options**

Housing	Upgrade to Ultra Fab housing	
Center Section	Large stem pro gear- Add option OPRF05	\$53 \$223
Axles	Gun-drilled axles- Replace P1016 with P1014 \$81	
Brakes	Pro Race disc brake kit installed	

Brake kit prices include \$25 installation charge See Brake Section for More Brake Options



## 9.75 INDEPENDENT REAR END (CAMARO 2010-15)

Strange Engineering has developed and stringently tested its new ALL aluminum independent rear end. As opposed to 9" steel fabricated units, the Strange "one piece" aluminum unit provides a seamless installation, comparable strength, and quieter operation compared to 9" aftermarket gear sets at a weight that is only 20 lbs. greater than the OEM 218mm unit.

The Strange 9.75" utilizes proven components- including the Strange 35-spline S-Trac (helical design) and Hy-Tuf axle shafts. Manufactured from lightweight 206-T4 aluminum, which provides exceptional strength and toughness at a reduced weight. Strange designed the 9.75" unit with a radial design- for both the main unit and the support cover, which provides outstanding strength and increased rigidity. Aircraft grade 2024-T351 billet aluminum main caps and steel adjuster nuts for easy and precise gear setup. The main caps are further supported by the cover, increasing strength and decreasing deflection. The 9.75" is coated with black Enduraguard™ to maintain a clean finish.

> Strange offers 35-spline Hy-Tuf stub shafts to adapt it's 9.75" to popular existing aftermarket axle shaft assemblies. Including shafts for 14.313" axle flange to axle flange dimension, which will fit The Driveshaft Shop axle assemblies for OEM rear end/center configurations. Stub axles are also available for 17.30", which will fit The Driveshaft Shop and \*G-Force 9" shaft assembly configurations. Custom Strange axle shafts are also availablecall to discuss your application.

\* G-force stamped steel CV joint dust caps are not compatible with Strange stub axles- Must be sealed with RTV

## 9.75 INDEPENDENT REAR END (CAMARO 2010-15)

3

- Seamless "Bolt-In" Installation
- Exceptional Strength, High Toughness, Lightweight Premium 206-T4 Aluminum
- Finned Housing and Radial Ribbed Cover Design Provides Substantial Strength and Rigidity
- Support Style Rear Cover Reinforces Main Caps to Increase Overall Strength and Minimizes Deflection (pictured above right)
- Aircraft Grade 2024-T351 Billet Aluminum Main Caps and Steel Adjuster Nuts for Easy and Precise Gear Set-Up
- 35-SplineHyTuf Axle Shafts & Helical Differential
- Ratios Available from 3.54-6.50
- Robust Enduraguard<sup>™</sup> Black Coating for Extensive Surface Protection and Provides a clean and easily maintained surface finish

\* H-1400 9.75" Independent rear end, choice of gear ratio from 3.54-6.50, 1350 series standard pinion yoke (optional chrome-moly pinion yoke available at additional cost). U-bolts, polyurethane bushings included (will fit OEM bushings that Strange does not offer), 35-spline S-Trac- fully assembled with choice of 35-spline Hy-Tuf stub shafts ... \$3,910 \* H-1400 requires aftermarket driveshaft and axles shafts- call

Opened with a still accepting the same components. Thering and pinton. The S60 weights 15 lbs. more than an after

factory Dana 60, while still accepting the same components. The casting and oversized main caps are constructed from a proprietary nodular iron which is substantially stronger than cast iron. This has allowed the casting to be made not only thinner and lighter, but also stronger. The heavy duty main caps are fitted with adjuster nuts that eliminate the side carrier shims. Backlash and preload are adjusted by a turn of a wrench, greatly reducing the time and effort to change a gear or differential. The 9.750" ring gear can endure a tremendous amount of abuse- equal to a 9" Ford at a fraction of the price. It is also more efficient, taking less horsepower to drive the

ring and pinion. The S60 weighs 15 lbs. more than a comparable 9" rear end, and only 20-25 lbs. more than an aftermarket 12-bolt. The S60 rear end is equipped with 35-spline axle shafts without costly upgrades. All castings feature a drain plug located at the bottom. Mopar applications have a machined provision to accept factory or aftermarket pinion snubbers. GM F-body applications have the torque arm mounting location cast into the unit, while A-body and G-body feature integrated upper control mounts. The HD 1350 series pinion yoke is larger than any factory yoke and needs to be accounted for when ordering the driveshaft.

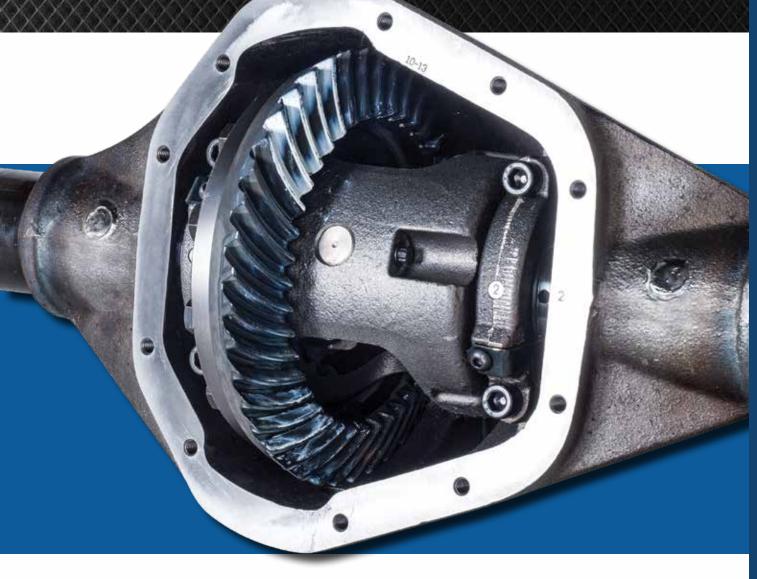
**STREET/TRACK:** The S60 is equipped with a Spicer Traclock (clutch style) posi unit, Standard gear set, 35 spline Alloy axles, 7/16" or 1/2" wheel studs, HD 1350 series yoke, u-bolt kit, and steel rear cover. The Trac-lock is designed for street use in vehicles that will not be raced. The optional Truetrack (helical gear) differential is a great choice for a Street / Track applications. Gear ratio choices are 3.54, 3.73, 4.10, 4.30, 4.56, 4.88, 5.13, & 5.38. Upgrades are available to the differential and wheel studs. Options include a chrome moly 1350 series yoke, Strange aluminum black powder coated housing. The steel cover would also be powder coated when this option is ordered.

**F-BODY:** This assembly comes standard with the upgrade to the Truetrack (helical gear) differential, Standard gear set, 35 spline Alloy axles, 12 mm or 1/2" wheel studs, HD 1350 series yoke, u-bolt kit, and steel rear cover. Gear ratio choices are the same as above. The rear can be configured for 82-92, 1993-1997 or 1998-2002 factory disc brakes and 3 or 4 channel ABS. Aluminum covers can not be used due to the close proximity of the rear end to the gas tank. Upgrades include provisions for ABS. Options are a chrome moly 1350 series yoke and satin black powder coated housing. The steel cover would also be powder coated when this option is ordered.

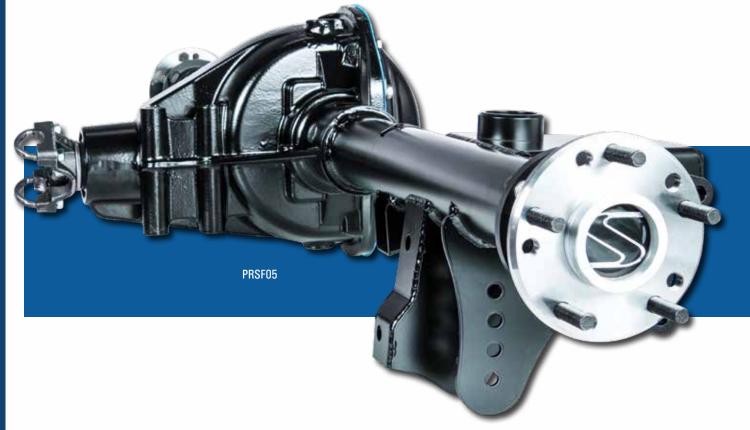
## S60 BOLT-IN REAR ENDS

**DRAG RACING:** The S60 35 spline packages are equipped with a Pro Series lightweight steel spool, Standard gear set, 35 spline Pro Race axles, 1/2" wheel studs, HD 1350 series yoke, u-bolt kit, and steel rear cover. The 40 spline packages are supplied with a Pro Series lightweight steel spool, Standard gear set, 40 spline solid Pro Race axles, 5/8" stud kit, and steel rear cover. Standard gear ratio choices are 3.54, 3.73, 4.10, 4.30, 4.56, 4.88, 5.13, &

5.38. Pro gear are 4.10, 4.30, 4.56, 4.88, 5.38, & 6.17. Options include gun drilled 40-spline axles, pro gear set, chrome moly yoke, Strange aluminum black powder coated cover, LPW HD aluminum cover, and satin black powder coated housing. The steel cover would also be powder coated when this option is ordered.



## S60 GM STREET | TRACK & DRAG RACE



## A-Body / G-Body / F-Body / Leaf spring / Bolt-in Assemblies / Bare (Custom widths are available at no additional charge)

PRSB05	Bare housing	no mounts / Snicer	Trac-lock nosi / 35 soline Allov axles	\$2 166
PRSL05	Bare housing - no mounts / Spicer Trac-lock posi / 35 spline Alloy axles Leaf spring housing / Spicer Trac-lock posi / 35 spline Alloy axles			\$2,286
PRSA05	GM A-body ho	GM A-body housing / Spicer Trac-lock posi / 35 spline Alloy axles		
PRSG05	GM G-body ho	ly housing / Spicer Trac-lock posi / 35 spline Alloy axles\$		
PRSF05	GM F-body housing / Eaton Truetrack / 35 spline Alloy axles		\$2,795	
	Upgrades	OPRS01	From Trac-lock to Detroit locker	\$320
XXX		OPRS02	From Trac-lock to Truetrack helical gear differential	
$\bigvee$ $\bigvee$	1111	OPRS12	To 5/8″ stud kit	
(X,Y,Y)	SOSS	OPRG13	F-Body upgrade- Strange supplies 4 channel ABS reluctor rings	\$90
		OPRS30	F-body upgrade- Install 3 channel ABS reluctor ring on differential	. \$200
	Options	OPRS06	LPW HD aluminum cover	. \$125
XXXX.	XDXXXX	OPRS08	Strange black powder coat aluminum cover	\$50
		OPRS18	Chrome moly pinion yoke	\$51
		H1199P-BLK	Powder coat housing- satin black	. \$159
	Brakes	Wilwood 11" Pr	o street disc brake kit installed	\$624
		Wilwood 12" Pr	o street disc brake kit installed	\$775
		Late Big Ford 1	1" drum brake kit installed	\$520

Brake kit prices include \$25 installation charge - See Brake Kit Section For More Brake Options

#### A-Body / G-Body / F-Body / Leaf spring / Bolt-in Assemblies / Bare

(Custom widths are available at no additional charge)

PRSB10 PRSL10 PRSA10 PRSG10 PRSF10	Leaf spring housi GM A-body housi GM G-body housi	ng / L/W spool / st ng / L/W spool / st ng / L/W spool / st	ol / standard gear / 35 spline Pro axlesandard gear / 35 spline Pro axles		\$2,086 \$2,140 \$2,140
	Upgrades	OPRS14	To 5/8" stud kit		\$54
PRSB15 PRSL15 PRSA15 PRSG15 PRSF15	Leaf spring housi GM A-body housi GM G-body housi	ng / L/W spool / st ng / L/W spool / st ng / L/W spool / st	ol / standard gear / 40 spline solid Pro axles andard gear / 40 spline solid Pro axles	. \$2,380 . \$2,434 . \$2,434	
	Upgrades Options	OPRS16 OPRS22 OPRS06 OPRS08 OPRS18	To gun drilled 40 spline axles Pro gear set LPW HD aluminum cover Strange black powder coat aluminum cover Chrome moly pinion yoke		\$100 \$125 \$50
	Brakes	H1199P-BLK Pro Race disc br Dual Pro Race di	Powder coat housing- satin black ake kit installed isc kit installed brake installed	\$624 \$1,045	

Brake kit prices include \$25 installation charge - See Brake Kit Section for More Brake Options



# S60 MOPAR STREET | TRACK & DRAG RACE

#### MOPAR / LEAF SPRING / BARE (Custom widths are available at no additional charge)

PRSB05 PRSL05			rac-lock posi / 35 spline Alloy axles ck posi / 35 spline Alloy axles	
	Upgrades	OPRS01	From Trac-lock to Detroit locker	
		OPRSO2 OPRS12	From Trac-lock to Truetrack helical gear differential To 5/8" stud kit	
		UFNOTZ	10 5/8 Stuu kit	\$UU
	Options	OPRS06	LPW HD aluminum cover	\$125
		OPRS08	Strange black powder coat aluminum cover	\$50
		OPRS18	Chrome moly pinion yoke	\$51
		H1199P-BLK	Powder coat housing- satin black	\$159
	Brakes	Late Big Ford 11	" Drum brake kit installed	\$520
		Wilwood 11" Pro	Street disc brake kit installed	\$624
			) Street disc brake kit installed	

Brake kit prices include \$25 installation charge - See Brake Kit Section for More Brake Options



# S60 MOPAR STREET | TRACK & DRAG RACE

PRSB10	Bare housing	no mounts / L/W spo	ool / standard gear / 35 spline Pro axles	\$1,966
PRSL10	Leaf spring ho	ousing / L/W spool / st	tandard gear / 35 spline Pro axles	\$2,086
$\sim$	Upgrades	OPRS14	To 5/8" stud kit	\$54
PRSB15	Bare housing	no mounts / L/W spo	ool / standard gear / 40 spline solid Pro axles	\$2,260
PRSL15	Leaf spring ho	using / L/W spool / st	tandard gear / 40 spline solid Pro axles	\$2,380
XX	Upgrades	OPRS16	To gun drilled 40 spline axles	\$82
	Options	OPRS22	Pro gear set LPW HD aluminum cover	
XXX	XXXXX	OPRS06	LPW HD aluminum cover	\$125
XXQ	~~~~	OPRS08	Strange black powder coat aluminum cover Chrome moly pinion yoke	\$50
$\sim \sim$		OPRS18	Chrome moly pinion yoke	\$51
XX.	XXXX	H1199P-BLK	Powder coat housing- satin black	\$159
	Brakes		rake kit installed \$624	
XX			lisc kit installed\$1,045	
		Pro Carbon disc	brake installed\$2.975	DC 26 36 36 06 3

Brake kit prices include \$25 installation charge - See Brake Kit Section for More Brake Options

# DMPLET

# **12 BLT BOLT-IN REAR ENDS**

**Overview:** The Strange 12 bolt casting is much stronger than the OEM 12 bolt, while still accepting the same components. The casting is poured from proprietary nodular iron which is substantially stronger than cast iron. The main caps are constructed from forged chrome moly, instead of cast iron like the originals. These improvements in materials, have allowed the casting to be made not only thinner and lighter, but also stronger. The casting has a torque arm mount cast as part of the case and a location for a Strange

**Street/Track:** The 12 bolt is equipped with a Eaton heavy duty clutch style posi unit, Standard gear set, 30 spline Alloy axles, 7/16" or 1/2" wheel studs, HD 1350 series yoke, u-bolt kit, and chrome rear cover. Standard gear ratio choices are 3.08, 3.42, 3.55, 3.73, 3.90, 4.11, 4.30, 4.56, 4.88, 5.14, & 5.38. Upgrades are available to the differential or differential and axle spline. Options include a chrome moly 1350 series yoke, LPW aluminum cover, and satin black powder coated housing. A powder coated housing is also supplied with the chrome cover.

The F-body 12 bolt is equipped with a Yukon heavy duty clutch style posi unit, Standard gear set, 33 spline Alloy axles, 12 mm or 1/2" wheel studs, HD 1350 series yoke, u-joint, u-bolt kit, and chrome rear cover.

3 channel sensor. It is designed as an F-body replacement for the extremely weak 7.625", but can also be used as an upgraded 12 bolt in any leaf spring application. The 3" O.D. tubes are plug welded and feature a 360° weld to the main casting. Large 3.150" ID housing ends are used along with a HD 1350 series yoke and u-bolts.

12 bolt rear end available for 82-92 - will not fit OEM brakes (call). The PRG200 is designed for non ABS vehicles. An upgrade is available to custom caliper mounts that will adapt 1993-1997 F-body factory disc brakes.

The PRG210 is for 1998-2002 ABS applications and can be ordered for three or four channel systems. Options include a chrome moly yoke, LPW aluminum cover, and satin black powder coated housing. A powder coated housing is also supplied with the chrome cover.

**Drag Racing:** The 12 bolt comes standard with a Pro Series lightweight steel spool, Standard gear set, 33 or 35 spline Pro Race axles, 1/2" wheel studs, HD 1350 series yoke, u-bolt kit, and chrome rear cover. It is available without mounts, with leaf spring mounts, or F-body mounts. Standard gear ratio choices are 3.08, 3.42, 3.55, 3.73, 3.90, 4.11, 4.30, 4.56, 4.88, 5.14, & 5.38. Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, 4.56, 4.88, 5.14, 5.38, Pro gear are 4.11, 4.30, Pro

& 5.57, 5.86, & 6.14. Upgrades are available to 5/8" wheel studs, Pro gear set, aluminum 33 spline spool, and Ultra Lite axle flanges. Options include a chrome moly yoke, LPW aluminum cover, lightened ring gear, MicroBlue services, and satin black powder coated housing. A powder coated housing is also supplied with the chrome cover.

# **12 BLT BOLT-IN REAR ENDS**



PRG300	Bare housing	without mounts / E	aton HD posi / 30 spline Alloy axles	\$2,356
PRG310	Leaf spring ho	ousing / Eaton HD p	oosi / 30 spline Alloy axles	\$2,456
SAVA?	Upgrades		To Eaton Truetrack 30 spline helical gear differential	
$\odot$	$\Diamond$	OPRG06	To Yukon HD 33 spline clutch style posi & Strange 33 Alloy axles	\$154
PRG200	F-Body housin	ig / Yukon HD posi	/ 33 spline Alloy axles	\$2,704
$\langle \rangle \rangle \langle \rangle$	Upgrades	OPRG12		
PRG210	F-Body housin	ig for ABS / Yukon	HD posi / 33 spline Alloy axles	\$2,820
$\odot \odot \odot$	Upgrades	OPRG13		\$90
$\odot$	Options	OPRG17	Chrome moly 1350 yoke	\$51
866	65050	OPRG10	Chrome moly 1350 yoke LPW aluminum cover	\$115
XXX	Street / Track	Brakes	Wilwood 11" Pro Street disc brake kit installed	
XX			Wilwood 12" Pro Street disc brake kit installed	\$775
			Late Big Ford 11" Drum brake kit installed	\$520

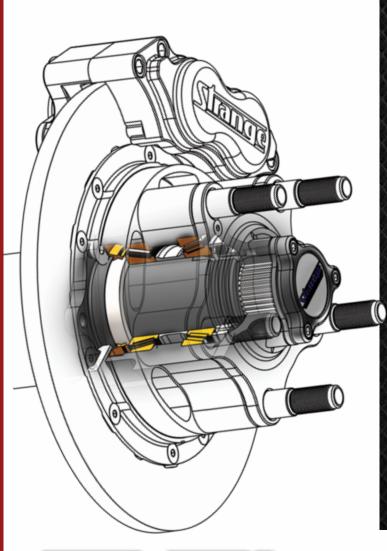
#### 30 & 33-spline street axle lengths are limited. Call for more information.

PRG320 PRG330			el spool and Pro Race axles Il and Pro Race axles	
1110000	Upgrades	OPRG01	To Pro gear set	
		OPRS14	To 5/8 stud kit	
		OPRG16	To Aluminum 33 spline spool	
		A1006	To Ultra Lite axle flange	
PRG235	F-Body housing, L	/W steel spool, St	andard gear, and Pro Race axles	\$2,153
PRG230			eel spool, Pro gear, and Pro Race axles	
	Upgrades	OPRS14	To 5/8 stud kit	\$54
		OPRG16	To Aluminum 33 spline spool	\$150
		A1006	To Ultra Lite axle flange	
	Options	OPRG17	Chrome moly 1350 yoke	\$51
		OPRG10	LPW aluminum cover	
		D3596	Lighten ring gear	\$75
		D3598G	MicroBlue gear set	\$240
		D3598B	MicroBlue bearings	\$130
		H1199P-BLK	Powder coat housing- satin black- with chrome steel cover	\$159
	Drag Race Brakes	3	Pro Race disc brake kit installed	\$624
			Dual Pro Race disc kit installed	\$1,045
			Pro Carbon disc brake installed	\$2,975

Brake kit prices include \$25 installation charge - See Brake Kit Section for More Brake Options Drag race axles available up to and including 35 spline

# DRAG RACE

**DRAG RACE FLOATER KITS:** Strange Drag Race floater kits coupled with a Strange 9"/9.50" Ultra Case assembly have become a standard for Pro Mod classes, Blown classes and other abusive drag racing applications. The floater kit provides excellent safety and durability for sportsman and professional drag racers. Each kit includes 4130 chrome moly spindles, steel drive plates, aluminum hubs, rotors, Timken bearings, seals, chrome-moly studs and steel lug nuts. Strange Drag Race floater kits are available with carbon or steel brakes. Floater axles are not



included with floater kits, but are available in either solid or gun drilled. Vehicles requiring a floater kit are under extreme forces. Due to the tremendous increase in torsional strength of a 40 spline axle in comparison to 35, Strange only offers 40 spline floater kits. Custom axles can be made with a smaller spline on the spool end if required, but axle torsional strength will be compromised.

#### FLOATER KIT REDESIGNED STARTED IN 2012 AND FEATURES MANY KEY IMPROVEMENTS

- Larger bearings allow for increased spindle wall thickness and provide additional load capacity
- Solid preload sleeve ensures proper preload of hub bearings
- Positive spindle lock system maintains bearing preload under severe conditions
- Minimized distance to wheel mounting surface decreases stress imposed on spindles
- Spindle radius increased to .500" Vastly improving spindle integrity under bending loads
- Fully machined press-in wheel studs that eliminate stress risers and loosening of studs in hub
- Integral hub and rotor mounting lugs allow rotors to float and minimize components
- Hub lug design allows for simplified conversion between steel and carbon brakes
- Steel rotors increased in diameter to provide more braking capacity
- Now in Stainless Steel to withstand higher temperatures
- All kits are complete with billet calipers and brake pads



# DRAG RACE

F2206WC	5 1/2" Bolt circle floater kit with carbon brake kit\$5,160
F22065WC	5" Bolt circle floater kit with carbon brake kit\$5,060
F22064WC	4 3/4" Bolt circle floater kit with carbon brake kit\$5,060
F2206	5 1/2" Bolt circle floater kit with stainless steel brake kit \$3,160
F22065	5" Bolt circle floater kit with stainless steel brake kit\$3,060
F22064	4 3/4" Bolt circle floater kit with stainless steel brake kit
A2040H24	Hy-Tuf gun drilled 40 spline floater axle- 24" or less- each\$198
A2040H28	Hy-Tuf gun drilled 40 spline floater axle- 24 1/8" to 28"- each\$214
A2040H32	Hy-Tuf gun drilled 40 spline floater axle- 28 1/8" to 32"- each\$231
A2040H36	Hy Tuf gun drilled 40 spline floater axle- 32 1/8" to 36"- each\$249
A2140H24	Hy-Tuf solid 40 spline floater axle- 24" or less- each\$165
A2140H28	Hy-Tuf solid 40 spline floater axle- 24 1/8" to 28"- each\$179
A2140H32	Hy-Tuf solid 40 spline floater axle- 28 1/8" to 32"- each\$193
A2140H36	Hy-Tuf solid 40 spline floater axle- 32 1/8" to 36"- each\$208
A2040M*	300M gun drilled 40 spline floater axle· 20" or less- each
A2040M24*	300M gun drilled 40 spline floater axle· 20 1/8" to 24"- each\$423
A2040M28*	300M gun drilled 40 spline floater axle· 24 1/8" to 28"- each\$450
A2040M32*	300M gun drilled 40 spline floater axle· 28 1/8" to 32"· each\$505
A2040M36*	300M gun drilled 40 spline floater axle· 32 1/8" to 36"· each\$533
A2140M*	300M solid 40 spline floater axle· 20" or less- each\$295
A2140M24*	300M solid 40 spline floater axle- 20 1/8" to 24"- each\$323
A2140M28*	300M solid 40 spline floater axle- 24 1/8" to 28"- each\$350
A2140M32*	300M solid 40 spline floater axle- 28 1/8" to 32"- each\$405
A2140M36*	300M solid 40 spline floater axle- 32 1/8" to 36"- each\$433

\* For extreme applications such as heavy high-powered drag radial vehicles, Strange strongly recommends 300M axles as they are 21% stronger than Hy-Tuf axles



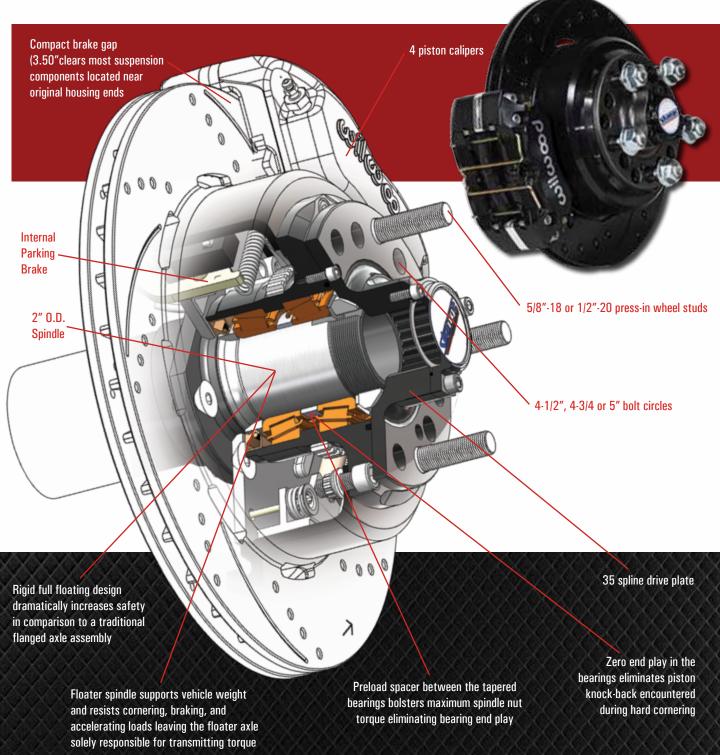
#### **CURRENT REPLACEMENT PARTS**

C1790	11" Carbon rotor- each \$795
L4050H	Carbon pad- each\$163
F2056NL	Stainless steel rotor- LH \$215
F2056NR	Stainless steel rotor- RH \$215
B5020	Metallic pad- each\$18
F2056K	Hub seal- each\$18
F2056I	Hub bearing- 4 3/4" & 5"- Inner only
	5 1/2"- Inner & outer- each\$68
F2056J	Hub race- 4 3/4" & 5"- Inner only
	5 1/2"- Inner & outer- each\$27
F1270	Hub bearing- 4 3/4" & 5"- Outer- each
F1271	Hub race- 4 3/4" & 5"- Outer- each \$20
F2056M	Spindle nut wrench- 5 1/2" BC floater kit
F2058W	Spindle nut wrench- 4 3/4" & 5" BC floater kit \$55

# **PRO TOURING**

**Pro Touring Floater Kits:** The Strange Pro Touring full floating kit design dramatically increases safety in comparison to a traditional flanged axle assembly. The floater spindle supports vehicle weight and resists cornering, braking, and accelerating loads, leaving the floater axle solely responsible for transmitting torque. A preload spacer between the tapered bearings bolsters maximum spindle nut torque eliminating bearing end play. Zero end play in the bearings eliminates piston knock-back encountered during hard cornering. Compact brake gap (3.50") clears most suspension components located near original housing ends. The

Strange Pro Touring floater kit features 2" 0.D. chrome moly spindles, 35 spline drive plates, multiple patterns for 4 1/2", 4 3/4", and 5" bolt circles, and 1/2" x 20 press-in wheel studs. The floater axles and brake kit are sold separately. The axles are 35 spline to mate to the drive plate, and the inboard splines are made to match your specific carrier. The option for 5/8" x 18 press-in wheel studs also includes stud sleeves, lug nuts and washers. There are also options to adapt 2010 and earlier, or 2011 and later Mustang ABS systems.



# PRO TOURING

F5010	Pro Touring floater kit- less axles and brakes	\$1,100
Options		
0PRS14	Replace 1/2" studs with 5/8" stud kit	\$54
ABSFM10	Adapt to accept 2005-2010 Mustang ABS sensor	
ABSFM11	Adapt to accept 2011-2014 Mustang ABS sensor	
A5100H24	Hy-Tuf solid 35 spline floater axle- 24" or less- each	\$160
A5100H28	Hy-Tuf solid 35 spline floater axle- 24 1/8" to 28"- each	\$171
A5100H32	Hy-Tuf solid 35 spline floater axle- 28 1/8" to 32"- each	\$182
A5100H36	Hy-Tuf solid 35 spline floater axle- 32 1/8" to 36"- each	
B2712WC	Wilwood Pro Touring brake kit / 11" rotors / for 15" beadlock wheels / black calipers	\$895
B2711WC	Wilwood Pro Touring brake kit / 12.19" rotors / black calipers	
B2711WCR	Wilwood Pro Touring brake kit / 12.19" rotors / red calipers	
B2714WC	Wilwood Pro Touring brake kit / 14" rotors / black calipers	
B2714WCR	Wilwood Pro Touring brake kit / 14" rotors / red calipers	
N1948	Hub bearing- Inner and outer- each	\$13
N1949	Hub race- Inner and outer- each	
F5056J	Hub seal- each	\$16
F5056W	Spindle nut wrench- Included in floater kit	\$45



**Dragster / Altered Steel Spindles:** Strange Dragster / Altered spindles are machined to exacting standards from forged 4130 chrome-moly heat treated steel. The spindles are black oxide coated and bushed. Hollow king pins are machined for lubricant delivery, heat treated, and finish ground. These pins feature a grease fitting allowing convenient lubrication of bushings. Two 5" steering arms, end caps, thrust washers, spindle nuts, cotter pins, and weld bosses are included.

S3453	Strange forged steel front spindle kit	\$3
S3453TL	Strange forged steel front spindle kit with tow loops	\$4
S3453K	Strange front spindle tow loop - each	\$3
S3457WT	Labor only - Install brake mounting tabs on S3453	\$7



Funny Car Adjustable Height Spindles: Strange

Funny Car adjustable height spindles allow for chassis preload adjustments to be made at the track by simply relocating spacers. Our billet aluminum spindle body and heat treated spindle accept all existing Anglia style spindle mount wheels. The spindle diameter for the inner bearing has been increased for strength. New inner bearings, races, and seals are provided to adapt Anglia wheels. Hollow king pins feature a unique system to provide lubrication to the bushings via an easily accessible grease fitting. The spindles include adjustable height shims, weld bosses, inner wheel bearings, races, seals, semi-finished steering arms, end caps, spindle nuts, and cotter pins. Steel or carbon front brake kits are available featuring our single piston caliper with square pads.

S3423	Funny Car adjustable height spindle kit	\$695
S3423NA	Spindle kit without steering arms	\$660





**Quick Release Steering Hub:** Strange quick release steering hubs are SFI certified. The billet aluminum hubs are a completely self contained mechanism. A 4130 stub shaft is furnished for ease of installation and the keyed spline design allows for easy wheel orientation. The Q-1000 is designed for butterfly steering wheels, the Q-1200 fits Grant style wheels, and the Q1200SPAR fits 6 bolt Sparco wheels.

01000	Strange quick release steering hub for Butterfly wheel	\$83
01200	Strange quick release steering hub for Grant wheel	\$116
01200NB	Strange quick release steering hub for Grant wheel- No horn button	\$10
01200SPAR	Strange quick release steering hub for Sparco wheel	\$116
01200SPARNB	Strange quick release steering hub for Sparco wheel- No horn button $\ldots$	\$10



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# STREET | TRACK & DRAG RACE

# Steering Box - Funny Car/ Front Engine

**Dragster/ Altered:** Strange worm gear steering box is ideal for Funny Cars and other front engine cars where drag link steering is used. These 10:1 boxes feature a serrated end on the steering shaft to provide a wide range of adjustment for the pitman arm. Lengths shown are from the center of the steering shaft, to the outside edge of pitman arm splines.

S3441S	Strange 13" worm type steering box\$525
S3441M	Strange 14" worm type steering box \$525
S3441MNA	Strange 14" worm type steering box without pitman arm \$512
S3441L	Strange 15" worm type steering box \$525

**Steering Rack - Dragster / Door Car:** Strange Engineering has expanded their line of steering components to include rack & pinions. Dragster racks were first and are soon to be followed by door car applications. These racks provide the quality and workmanship our customers have grown to expect from Strange. High end materials ensure many years of service, and are rebuildable at our factory. Stiletto products continue to be offered to complement our line. They have been around for a long time and continue to offer quality components.

The Stiletto Dragster rack is offered in two ratios. The 12:1 is common for most applications including Super Comp and Top Dragsters. It provides 4.813" of total rack travel with 2.625" of movement for each full turn of the pinion gear. The 15:1 is slower and used in some Top Fuel Dragsters based on driver preference. These lightweight boxes have two 3/8" holes on 1.313" centers providing secure chassis mounting.

The Stiletto Pro Box is a door car rack & pinion designed for full bodied vehicles requiring a professional alternative to OEM based steering racks. The 7075-T6 aluminum clevises are drilled on 24.5" centers for 3/8" bolts. Three turns lock-to-lock provide 4.750" of rack travel resulting in a 20 to 1 steering ratio when using 5" spindle arms. An adjustable mounting system

adapts to a variety of chassis designs. The pinion housing features two 7/16" tapped mounting holes on 1.250" centers and the adjustable mounting block has two 3/8"-16 holes on 1.375" centers.

The Strange Tie rod kit is an excellent compliment to the Stiletto Pro Box, offering the utmost in safety and durability. This kit features T-bushing adapters, that press into the ball of the rod ends, which allow increased range of movement without binding. The tie rod kit includes two pieces of .625" OD x .120" wall 12" long chromemoly tubing, two each LH and RH 4130 chrome-moly rod ends, and T-bushing adapters. Tubing needs to be cut to length and threaded to accept the rod ends.

S3442	Strange Dragster 12:1 rack & pinion with 11"	XX
	rod end center	\$349
S3442-14	Strange Dragster 12:1 rack & pinion with 14"	
	rod end centers	\$379
S3437	Stiletto Dragster 12:1 rack & pinion with 11"	5250
	rod end center	\$360
S3438	Stiletto Dragster 15:1 rack & pinion with 11"	XQX
	rod end center	\$360
S3440	Stiletto Pro Box door car rack & pinion	\$575
S3447	Strange Tie rod kit for S3440 \$194	XX



# TECHNICAL



By use of friction, brakes convert kinetic energy into heat and dissipate it into the atmosphere. Kinetic energy is the amount of energy stored in a vehicle in motion. The basic factors that effect this are weight and speed. A heavy car takes more power to get up to the same speed as a lighter car, but will have a greater amount of stored energy. Therefore, it has to dissipate more heat to come to a stop. Speed has even a larger influence since it is squared in the calculation for kinetic energy. A vehicle traveling at 120 mph, has four times the stored energy than when it was doing 60 mph. What may appear to be a mild increase in mph, causes a much greater burden on the braking system.

**MASTER CYLINDER SELECTION - PEDAL / HANDLE RATIO - PRESSURE:** The 1.032" master cylinder is recommended for systems using single piston or two piston calipers up front, and four piston calipers in the rear. The 1.125" master cylinder is used with four piston calipers in both the front and rear. Brake pressure should always be checked with a brake pressure gauge before use. In disc brake applications used for drag racing only, front brake pressure should be 550 to 650 lbs and rear brake pressure 1,000 to 1,100 lbs. These pressures should be achieved with a lot of effort since they are at "lock-up" of the tires and the actual normal stopping pressures will be lower.

1.032'' bore master cylinder: Pedal ratio- 5.5 to 1  $\,$  / Handle ratio- 11 to 1 1.125'' bore master cylinder: Pedal ratio- 6.5 to 1  $\,$  / Handle ratio- 13 to 1

**MOUNTING:** The master cylinder, pedal / handle assembly, and calipers should be rigidly mounted. Movement or flex of the mounting location can cause inconsistent or spongy brake feel. Regardless of the pedal ratio, the master cylinder push rod needs to be parallel with the master cylinder while maximum brake pressure is achieved. This will promote even loading and wear on the piston providing the longest life possible. The bleeder screws should be the highest part of the caliper so that air can escape during bleeding. If this is not possible, the calipers can be rotated for bleeding then reinstalled. The brake calipers and pads need to be square to the rotors to promote even pad wear, consistent pedal feel, and eliminate brake drag. Most Strange 4-piston calipers have staggered piston diameters, therefore, they are directional and the arrow on the caliper must point in the direction of normal rotation of the rotor.

**CALIPER SELECTION:** Single piston front calipers are used for spindle mount wheels only. They should be used in vehicles weighing no more than 2,600 lbs that always deploy a parachute. Vehicles exceeding these limitations will experience poor pad life and will cause the rotors to overheat and warp. Two piston calipers are used in the front on vehicles with five lug wheels weighing up to 2,600 lbs. Four piston calipers are used in the front on vehicles and in all rear applications.

**PAD SELECTION:** Soft metallic pads, used in all front applications, have excellent cold holding abilities with decent fade resistance. They are also used in rear applications where the vehicle does not exceed 150 mph in the 1/4 mile. The high temp and hard metallic pads are used in "rear only" applications exceeding 150 mph. High temp pads have a much higher threshold before brake fade than the soft metallic, but sacrifice starting line holding capability. The hard metallic have almost the same resistance to brake fade as the high temp, but offer better cold holding ability. They do tend to transfer additional pad material onto the brake rotor surface that has to be occasionally removed. On vehicles requiring the rear brakes to hold on the starting line under additional duress, such as loading torque converters or spooling turbochargers, the soft metallic pads would be a better choice due to their cold holding characteristics. Dual rear calipers would further enhance this capability.

**PLUMBING:** Braided stainless steel Teflon<sup>®</sup> lined hoses should be used only in flex applications, while 3/16" OD steel or stainless steel tubing should be used for the rest of the system. All lines should be firmly secured and isolated from vibration. All connections should be tight and NPT fittings sealed with Teflon<sup>®</sup> thread sealer. In applications where the master cylinder is mounted below the calipers, a 2 lb. residual pressure valve should be plumbed at the exit port(s) of the master cylinder. This keeps fluid from returning to the lowest point, the master cylinder, and pulling the caliper pistons back in their bores. If using a Strange master with drum brakes in the system, a 10 lb. residual valve must be installed in the line going to the drum brakes regardless of master cylinder location. When calipers or master cylinders are changed in an OEM system, the stock proportioning valve should be removed in favor of an adjustable proportioning valve. In most drag racing applications, it should be plumbed between the master cylinder and the rear brakes. In either application, adjustments should be made to the valve in order to achieve the same braking threshold for front and rear brakes.

# TECHNICAL



**BRAKE FLUID:** It is recommended to use DOT 4, DOT 5.1, or a high performance glycol based brake fluid for the braking temperatures experienced during drag racing. When changing to a different brake fluid, completely flush the system in order to experience the benefits of a higher temperature rated fluid. DOT 5 (Silicone based) brake fluid is not recommended for racing applications for several reasons. It does not mix with other fluids requiring a complete system rebuild, it is slightly compressible giving a soft pedal, and it does not absorb water. Since it will not absorb water, when moisture enters the system it settles to the lowest point which in most cases is the brake calipers. At braking temperatures moisture easily boils causing a loss or lack of pedal. Brake fluid should be changed at the beginning of each season to remove the absorbed water and any other contaminates.

	Advantages	Disadvantages	Boiling	Point
	-	-	Dry	Wet
DOT 3	Inexpensive / Absorbs water / Mixes with DOT 4 & 5.1	Lowest boiling point / Eats paint	400	285
DOT 4	Higher boiling point / Absorbs water / Mixes with			
	DOT 3 & 5.1	Eats paint	445	310
DOT 5	High boiling point / Does not eat paint	Does not absorb water / Water settles and causes corrosion	n <b>500</b>	355
		Difficult to bleed / Will not mix with DOT 3, 4, & 5.1		
DOT 5.1	High boiling point / Absorbs water / Mixes with DOT 3 & 4	More expensive / Eats paint	527	365

**BLEEDING:** Fill the master cylinder reservoir with new DOT 4 or DOT 5.1 brake fluid. Start with the caliper furthest from the master cylinder and work your way to the caliper that is closest. Slide a clear plastic hose on the end of the bleeder screw. Open the bleeder screw approximately one turn and slowly depress and hold the brake pedal all the way down. Close the bleeder screw and release the brake pedal. Repeat this sequence until fluid comes out of the bleeder clear and free of air bubbles. Periodically check the fluid level in reservoir while bleeding and refill as necessary. After bleeding is complete, check entire system for leaks and the fluid level in the master cylinder.

**BEDDING PROCEDURE:** A bedding procedure is necessary to avoid premature brake fade, uneven pad deposits on the rotors, pad and rotor damage, and provide the best braking performance and the longest component life. It consists of 8-10 brake applications increasing in harshness while allowing the brakes to cool slightly in between; do not apply or drag the brakes between stops. After the last stop, the brakes should be allowed to cool completely. The concept is to slowly cycle the brakes up to operating temperature and back down avoiding thermal shock. A transfer of pad material to the rotor surface occurs that coats and protects the rotor, creating the actual wear surface. For best results, new pads should be bedded with seasoned rotors and new rotors should be bedded with seasoned pads.

### **COMMON ISSUES**

#### **BRAKE DRAG**

Master cylinder piston not fully retracting Calipers not square to rotors Tapered brake pad material Incorrect residual pressure valve Using drum brake master with disc brakes Using factory proportioning / combination valve Defective line-lock Contamination of brake fluid within the calipers

#### PULSING PEDAL

Warped rotors Rotor faces not parallel Excessive play in wheel bearings Tire / wheel assembly out of balance

#### SOFT OR SPONGY PEDAL

Pedal ratio too high Master cylinder bore too small Old brake fluid Air in system Deflecting caliper Caliper not square to rotor Too much flex line in system DOT 5 (Silicone) fluid in system

#### HARD PEDAL

Pedal ratio too low Master cylinder bore too large Misalignment of master cylinder push-rod

**4-PISTON DIRECTIONAL CALIPER** is standard in all front steel 4-piston, rear Pro Series, and Pro Series II brake kits that features an aluminum caliper in 1.750" and 1.625" piston bore sizes. Directional calipers allow pad loading and wear to be balanced against the natural changing temperatures across the pad face. Coupled with superior Strange caliper bridge-bolt strength, the dissimilar piston sizes allow for optimum braking, feel, and more consistent pad wear. The caliper also features anti-rattle clips and stainless steel pistons.

**4-PISTON BILLET CALIPER** is used in the new Strange Pro Series II Stainless brake kits. Similar to the caliper used in the Pro Carbon brake kits, it has the same superior bridge strength provided by the billet aluminum bodies. This brake caliper is designed for steel brakes and uses non-insulated pistons that are longer than normal providing additional stability. All four stainless steel pistons are 1.750" in diameter providing 7% greater clamping force in comparison to directional calipers. Available in black or red.

**4-PISTON BILLET LOW PROFILE CALIPER** is an option in Strange Pro Series rear brake kits. Essential when using some of the newly designed 15" bead lock wheels, this caliper fits where no other can. Added ribs improve overall stiffness and drastically reduces deflection. Enhanced piston retraction reduces brake pad drag. Each caliper utilizes four individual brake pads to eliminate the problems experienced with warped backing plates. (Image shown below)

**4-Piston Non-Directional Caliper** is used in all S-Series rear brake kits that features an aluminum caliper with 1.750" piston bore sizes throughout. The S-Series caliper provides excellent bridge-bolt strength and increased clamping force. The caliper also features anti-rattle clips and stainless steel pistons.

**2-PISTON CALIPER** is standard in medium duty front brake kits. A fully machined aluminum caliper that features 1.750" piston bore sizes and is a lighter weight option, compared to 4-piston caliper, for vehicles under 2,600 lbs.

**1-PISTON "FLOATING" CALIPER** is used for F/C and spindle mount front brake kits. Employing a unique slider assembly that features internal bearings and precision ground sliders, prevents the caliper from binding or sticking which commonly occurs with other brands. This single piston caliper utilizes a square pad that slides freely, which prolongs pad life.

**DIRECTIONAL SLOTTED ROTORS** are used in all brake kits except for the S-Series. The slots are precisely milled into the rotor surface to create a thermally stable braking surface with added benefits of reduced rotating weight and promoting braking consistency by eliminating pad glaze. The slots location, size, and shape were meticulously selected after field and dyno testing.

The slots provide a thermally stable rotor which vastly reduces distortion and/or warping of the rotor. Even though it would be far less expensive to offer only one slotted rotor, our testing clearly dictated the best slot design and placement required a rotational shaped slot; hence- directional rotors. The slot design also minimizes rotational weight. Unlike drilled rotors, the reduction in weight is achieved without sacrificing stability.



Strange one piece solid and slotted rotors are both fully machined from premium forgings

> Two-piece floating rotor shown unassembled Strange assembles all two-piece rotors before shipment

**ONE PIECE ROTOR** forging is used to produce all brake rotors except for Pro Series II. The one piece

rotor is more expensive to manufacture when compared to the industries common 2 piece steel rotor design that uses bolts to hold it to an aluminum hat. Most two piece steel rotors are taken from inferior steel burn-outs and require additional assembly after purchasing. The one piece forged steel rotor offers several advantages when compared to bolt together two piece designs: (1) Due to the strength of our one piece forged steel rotor, a considerable amount of weight is eliminated in the steel hat area (slotted version). Aluminum hats are .250" to .500" thick and are not lightened in the side of the hat. The Strange rotor is only .125" thick in the mounting surface and has additional lightening holes on the side and top of the hat. In most cases, the slotted version rotor is lighter than bolt together two piece designs. (2) It eliminates mounting bolts that conduce binding and require constant torquing and/or cumbersome safety wire. (3) It provides superior dissipation of heat created by braking- due to one integral design (4) It accommodates several axle bolt circles (5) It can be re-surfaced to eliminate brake pad material build-up.

**TWO PIECE FLOATING ROTOR** is standard in front and rear Pro Series II brake kits. The already successful 2 piece floating rotors have been further refined. Racers have depended upon the proven two piece design since 2008, including world champion Gary Stinnett. Through further R&D the 2012 version features a proprietary steel that has increased yield strength by 43%, tensile by 30% and significantly improved resistance to warping and creep at high temperatures. The floating rotor design allows for axial and radial growth of rotor as temperature increases, which greatly reduces warping and coning tendencies. In addition, the design eliminates bolts to attach the hat and rotor, which can become loose, require safety wire and require assembly. The rotor hat is fully machined from an aluminum forging which is strong, lightweight, and provides an ideal wheel mounting surface. The two-piece rotor, when compared to the already lightweight forged steel rotor, is .60 lbs lighter per corner (1.20 lbs per pair). The two piece rotor is ideal for weight reduction and abusive braking conditions.

**TWO PIECE FLOATING (STAINLESS STEEL) ROTOR** offers a new enhancement to the two piece floating rotor design. Stainless steel is typically known to be corrosion resistant, but it's main purpose here is the superior strength it provides at elevated temperatures. Thermal stress relieving further improves material stability resulting in high speed braking ability, without the concerns of warping or distortion. This rotor is included in the new Strange Pro Series II Stainless brake kits. It is compatible with soft, high temp, and hard metallic pads.

Two-Piece hat (pictured right) - Fully machined from forged aluminum. The attention to detail is seen in the lightening grooves and pockets. The unique lug design permits axial and radial growth of the rotor.

Two Piece **Stainless Steel** Rotor (Above)



# PRO SERIES II (STAINLESS) REAR

BRAKE KIT is an advancement in the two piece design by manufacturing the floating rotor out of stainless steel. While being corrosion resistant, the main benefit is the ability to survive under elevated temperatures without warping or distorting. The stainless steel is thermally stress relieved to further enhance material stability. The result, is a rotor that maintains superior strength at higher temperatures in comparison to carbon steel. Included are the new Strange billet calipers for steel brakes that share the same billet bodies as supplied in our Pro Series carbon brake kit. These calipers offer additional bridge strength and contain four longer and larger diameter (1.750") stainless steel pistons. This design provides more clamping force and piston stability. The result is the ability to quickly scrub off MPH in an index class and reduce the possibility of brake

drag as the pads wear and pistons extend. Single or dual caliper kits are available with soft, high temp, or hard metallic brake pads. Choice of black or red billet calipers.

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#### **PRO SERIES II REAR BRAKE KIT**

TELLOC

with its two-piece floating rotor design, has been utilized by professional racers including world champion Gary Stinnett. The rotor and hat design allow for axial and radial growth of rotor as temperature increases, which greatly reduces warping and coning tendencies. In addition, it eliminates any bolts to attach the hat to the rotor which can become loose, require safety wire and additional labor. Pro Series II rear kits, when compared to the already lightweight Pro Series kit, is 1.20 lbs lighter. This kit features Strange 4-piston directional calipers (1.625" / 1.750" bores) with stainless steel pistons, caliper o-rings designed to minimize drag, billet aluminum caliper mounts, choice of brake pads (soft, high temp, or hard metallic) and mounting hardware. Dual calipers are optional. Brake kit weighs only 22.10 lbs with soft metallic pads. All brake pads materials are available in these rear kits. Upgrade to billet calipers for \$80. Upgrade to low profile calipers for \$150. Two upgrades necessary for dual brakes.

**PRO SERIES REAR KIT** features Strange forged steel one piece rotor, which is far superior to common bolt together two piece rotors in weight reduction, strength and longevity. All Strange Pro Race rotors are slotted. Slotting was developed by Strange to minimize warpage, while maximizing weight reduction. Every kit features the sought after Strange 4-piston directional calipers. The directional calipers accomplish superior bridge bolt strength at only 2.70 pounds. Strange directional calipers feature 1.750" and 1.625" OD stainless steel pistons to assure optimal pad wear and exceptional pedal / handle feel. Every Strange caliper is internally ported and is designed to assist piston retraction. Brake kit weighs only 23.70 lbs with soft metallic pads. All brake pads materials are available in these rear kits. Upgrade to billet calipers for \$80. Upgrade to low profile calipers for \$150. Two upgrades necessary for dual brakes.





B5020



**BRAKE PADS** are offered in soft, high temp, and hard metallic compositions. Soft metallic, used in all front brake kits, are one of three pad options in rear kits. They have excellent starting line holding capabilities and, in rear applications, are best suited in vehicles traveling less than 150 mph. The high temp metallic pads are for rear only, have a much higher temperature rating, used in vehicles doing over 150 mph, but sacrifice on cold holding. Hard metallics have the same heat rating as the medium, but with better cold holding ability. The hard pads will transfer some additional pad material to the brake rotor surface which will eventually need to be removed when replacing the brake pads.

All Strange 4-piston and 2-piston Pro Race front brake kits feature a scalloped and drilled aluminum hub to ensure the greatest weight reduction

Billet aluminum caliper mounts - tailored to your application.







**Strange Lightweight Front Kits** (pictured left mounted on a Strange Ultra Strut) are designed for spindle mount wheels. This kit features the Strange single piston caliper kit. The caliper kit employs a unique slider assembly that features internal bearings and precision ground sliders to prevent the caliper from binding or sticking, which is common with other brands. The single piston caliper utilizes a square pad that slides freely , which prolongs pad life.

The lightweight spindle mount kit includes compact 10" diameter directional slotted rotors. Kits are offered in Pro Series (one piece forged steel rotors) and Pro Series II (two piece floating rotors). Billet caliper mounts and hardware complete the kit.

**Each Front Kit Includes:** Strange single piston billet calipers, slider assembly, soft square pads, slotted steel rotors, and billet aluminum caliper mounts. Due to numerous spindle mount wheel designs, kits do not include wheel bearings and seals- contact your wheel manufacturer. Pro Series Kit (forged steel rotors) weighs 16 lbs and the Pro Series II (two piece floating rotor) kit weighs 15.2 lbs.

**Strange Medium Duty Front Kits** come standard with Strange 2-piston calipers and would be a lighter option in comparison to the 4-piston calipers found in Heavy Duty kits. Medium Duty brakes are offered for Strange aluminum struts that utilize 5 lug bolt-on wheels. The kits include forged slotted steel rotors, calipers, soft metallic pads, billet caliper mounts, billet aluminum hubs, bearings, races, seals, and 1/2" stud kit. Other medium duty kits do not include hubs and bearings as the stock hubs need to be reused. Two piston calipers are a weight reduction option for vehicles under 2,600 pounds. Two piston brake kits are 5 lbs lighter, compared to 4-piston.



B4110WC pictured above - is a typical 4-piston front brake kit; however, kits vary per application

#### **Strange Heavy Duty Front Brake Kits**

Strange Heavy Duty front brake kits offer a tremendous weight savings over OEM brake components. The entire Pro Series 4-piston brake kit, with forged slotted rotors, weighs only 33.50 lbs. The Pro Series II, featuring 2 piece floating rotors, weighs 32.50 lbs. Both kit weights include bearings, hubs, rotors, pads, calipers, pads, etc... Strange Engineering's brake kits are unsurpassed in detail. One example of our unparalleled attention to detail is evident in our hub design. Each hub has one bolt circle. Instead of adding an additional bolt circle, the hub is scalloped and lightening holes are milled to reduce rotating weight. The hub cap is fully machined and hollowed out to maximize weight reduction. We feel that the extra effort into weight reduction is expected from customers who want a premium quality Drag Racing brake kit.

Typical Heavy Duty front kits Include: Strange 4-piston billet directional calipers, soft metallic pads, forged slotted steel rotors, scalloped aluminum hubs with Timken<sup>®</sup> bearings and races, seals, studs, billet aluminum mounts, and necessary mounting hardware.



# **APPLICATIONS**

MAKE	MODEL	YEAR	OEM	PART#	ТҮРЕ	BOLT CIRCLE	PRICE	NOTES
BUICK								
	APOLLO	73-74	DRUM	B4110WC	HEAVY DUTY	4 3/4″	\$795	
		73-74	DISC	B4112WC	HEAVY DUTY	4 3/4″	\$795	
		75	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	
	CENTURY	73-77	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	
	SKYLARK	75-77	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	
	GRAND NATIONAL	79-87	DISC	B4122WC	HEAVY DUTY	4 3/4″	\$795	
	REGAL	79-87	DISC	B4122WC	HEAVY DUTY	4 3/4″	\$795	
0.115								
CHE	BLAZER 4X2	83-89	DISC	B4122WC		4 3/4″	\$795	FOR 100.5" WHEEL BASE
	CAMARO	67-69	DRUM	B4122WC B4110WC	HEAVY DUTY HEAVY DUTY	4 3/4	\$795 \$795	FUR TOU.5 WHEEL DASE
	GAINIANU	67-69	DISC	B4110WC B4112WC	HEAVY DUTY	4 3/4"	\$795 \$795	
		70-78	DISC	B4112WC	HEAVY DUTY	4 3/4"	\$795 \$795	
		79-81	DISC	B4114WC B4116WC	HEAVY DUTY	4 3/4"	\$795 \$795	
		82-92	DISC	B4118WC	HEAVY DUTY	4 3/4"	\$795 \$795	
		93-01	DISC	B4180WC	HEAVY DUTY	4 3/4"	\$995	
	CHEVELLE	67-72	DRUM	B4100WC	HEAVY DUTY	4 3/4"	\$795	
		67-72	DISC	B4112WC	HEAVY DUTY	4 3/4"	\$795	
		73-77	DISC	B4112WC	HEAVY DUTY	4 3/4"	\$795	
	CHEVY II / NOVA	67-74	DRUM	B4110WC	HEAVY DUTY	4 3/4"	\$795	
		67-74	DISC	B4112WC	HEAVY DUTY	4 3/4″	\$795	
	CHEVY	49-53	DRUM	B4164WC	HEAVY DUTY	4 3/4"	\$950	
	UNEVI	55-57	DRUM	B4172WC	HEAVY DUTY	4 3/4"	\$795	
	CORVETTE	63-64	DRUM	B4166WC	HEAVY DUTY	4 3/4"	\$835	
	001112112	65-68	DRUM	B4168WC	HEAVY DUTY	4 3/4″	\$835	
		69-82	DISC	B4170WC	HEAVY DUTY	4 3/4"	\$835	
		91-96	DISC	B4183WC	HEAVY DUTY	4 3/4"	\$995	
		97-04	DISC	B4178WC	HEAVY DUTY	4 3/4"	\$795	REUSES STOCK HUBS
	EL CAMINO	67-72	DRUM	B4110WC	HEAVY DUTY	4 3/4"	\$795	
		67-72	DISC	B4112WC	HEAVY DUTY	4 3/4″	\$795	
		73-77	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	
		79-87	DISC	B4122WC	HEAVY DUTY	4 3/4″	\$795	
	IMPALA	77-78	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	FOR 11" DISC SPINDLES
	MALIBU	73-77	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	
		79-87	DISC	B4122WC	HEAVY DUTY	4 3/4″	\$795	
	MONTE CARLO	70-72	DRUM	B4110WC	HEAVY DUTY	4 3/4″	\$795	
		70-72	DISC	B4112WC	HEAVY DUTY	4 3/4″	\$795	
		73-77	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	
		79-88	DISC	B4122WC	HEAVY DUTY	4 3/4″	\$795	
	NOVA	62-74	DRUM	B4110WC	HEAVY DUTY	4 3/4″	\$795	
		75-78	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	
	NOVA · SPECIAL	75-78	DISC	B4122WC	HEAVY DUTY	4 3/4″	\$795	FOR DROPPED SPINDLES
	S10 4X2	82-90	DISC	B4122WC	HEAVY DUTY	4 3/4″	\$795	
DODGE								
DODGE	CORONET	66-69	DRUM	B4158WC	HEAVY DUTY	4 1/2″	\$795	
	CONDINET	70-72	DISC	B4158WC B4159WC	HEAVY DUTY	4 1/2 4 1/2″	\$795 \$795	
		10-12	000	B4159W6	HLAVI DUIT	4 1/2	4/90	

To order brake kit with two piece rotors- Include "2" at the end of he part number (i.e. B4110WC2) Add \$100 to prices shown for medium and heavy duty kits

# **APPLICATIONS - CONTINUED**

MAKE	MODEL	YEAR	OEM	PART#	ТҮРЕ	BOLT CIRCLE	PRICE	NOTES
DODGE								
	CHALLENGER	70-72	DRUM	B4158WC	HEAVY DUTY	4 1/2"	\$795	FOR 10" DRUM SPINDLES
		70-72	DISC	B4159WC	HEAVY DUTY	4 1/2"	\$795	
		73-74	DISC	B4160WC	HEAVY DUTY	4 1/2"	\$795	
		09-12	DISC	B4184WC	HEAVY DUTY	4 1/2"	\$895	
	CHARGER	66-69	DRUM	B4158WC	HEAVY DUTY	4 1/2"	\$795	
		70-72	DISC	B4159WC	HEAVY DUTY	4 1/2"	\$795 \$705	
	DART	63-72		B4156WC	HEAVY DUTY	4 1/2"	\$795 \$705	FOR 9" DRUM SPINDLES
		65-72 73-76	DRUM DISC	B4162WC B4160WC	HEAVY DUTY HEAVY DUTY	4 1/2″ 4 1/2″	\$795 \$795	FOR 10" DRUM SPINDLES
	DUSTER	65-72	DRUM	B4160WC B4162WC	HEAVY DUTY	4 1/2"	\$795	FOR 10" DRUM SPINDLES
	LANCER	61-62	DRUM	B4102WC B4156WC	HEAVY DUTY	4 1/2"	\$795	FOR 9" DRUM SPINDLES
	ROAD RUNNER	70-72	DISC	B4159WC	HEAVY DUTY	4 1/2"	\$795	
	R/T	67-69	DRUM	B4158WC	HEAVY DUTY	4 1/2"	\$795	
	SATELLITE	70-72	DISC	B4159WC	HEAVY DUTY	4 1/2"	\$795	
	SUPER BEE	68-69	DRUM	B4158WC	HEAVY DUTY	4 1/2"	\$795	
		70	DISC	B4159WC	HEAVY DUTY	4 1/2"	\$795	
5000								
FORD		66.60	DDUM	D412EWC		1 110"	670E	
	FAIRLANE	66-69 66-69	DRUM DRUM	B4135WC B4134WC	HEAVY DUTY HEAVY DUTY	4 1/2″ 4 3/4″	\$795 \$795	
	FAIRMONT	81-83	DISC	B4134WC B4142WC	HEAVY DUTY	4 3/4"	\$795	
	FALCON	66-69	DRUM	B4135WC	HEAVY DUTY	4 1/2"	\$795	
	TALCON	66-69	DRUM	B4134WC	HEAVY DUTY	4 3/4"	\$795	
	FORD	42-48	DRUM	B4176WC	HEAVY DUTY	4 3/4"	\$835	
	MAVERICK	1972	DRUM	B4136WC	HEAVY DUTY	4 3/4"	\$795	
	MUSTANG*	1965	DRUM	B4135WC	HEAVY DUTY	4 1/2"	\$795	* 289 Hardtop only
	moorning	1965	DRUM	B4134WC	HEAVY DUTY	4 3/4"	\$795	* 289 Hardtop only
		67-69	DRUM	B4135WC	HEAVY DUTY	4 1/2"	\$795	
		67-69	DRUM	B4134WC	HEAVY DUTY	4 3/4"	\$795	
		70-73	DRUM	B4132WC	HEAVY DUTY	4 1/2"	\$795	
		70-73	DRUM	B4133WC	HEAVY DUTY	4 3/4″	\$795	
	MUSTANG II	74-78	DISC	B4140WC	HEAVY DUTY	4 3/4″	\$795	
		74-78	DISC	B4141WC	HEAVY DUTY	4 1/2″	\$795	
	MUSTANG	82-86	DISC	B4142WC	HEAVY DUTY	4 3/4″	\$795	
		82-86	DISC	B4143WC	HEAVY DUTY	4 1/2″	\$795	
		87-93	DISC	B4142WC	HEAVY DUTY	4 3/4″	\$795	FOR 4 CYL SPINDLES
		87-93	DISC	B4143WC	HEAVY DUTY	4 1/2″	\$795	FOR 4 CYL SPINDLES
	INCLUDES COBRA	87-93	DISC	B4144WC	HEAVY DUTY	4 3/4″	\$795	FOR 8 CYL SPINDLES
	INCLUDES COBRA	87-93	DISC	B4145WC	HEAVY DUTY	4 1/2″	\$795	FOR 8 CYL SPINDLES
		94-04	DISC	B4446WC	MEDIUM DUTY	4 1/2″	\$549	MUST REUSE STOCK HUBS
		05-14	DISC	B4148WC	HEAVY DUTY	4 1/2″	\$695	MUST REUSE STOCK HUBS
		05-14	DISC	B4152WC	HEAVY DUTY	4 1/2″	\$895	
	PINTO	71-72	DRUM	B4136WC	HEAVY DUTY	4 3/4″	\$795	
		71-72	DISC	B4138WC	HEAVY DUTY	4 3/4"	\$795	
		74-80	DISC	B4140WC	HEAVY DUTY	4 3/4"	\$795	
		74-80	DISC	B4141WC	HEAVY DUTY	4 1/2″	\$795	
	RANCHERO	67-69	DRUM	B4135WC	HEAVY DUTY	4 1/2"	\$795	
	THUNDEDDIDD	67-69	DRUM	B4134WC	HEAVY DUTY	4 3/4"	\$795	
	THUNDERBIRD	82-86	DISC	B4142WC	HEAVY DUTY	4 3/4"	\$795 \$705	
		82-86	DISC	B4143WC	HEAVY DUTY	4 1/2" 4 2/4"	\$795 \$705	
		87-88 87 88	DISC	B4142WC		4 3/4″ 4 1/2″	\$795 \$705	FOR 6 & 8 CYL SPINDLES
		87-88 07 00	DISC	B4143WC	HEAVY DUTY	4 1/2"	\$795 \$705	FOR 6 & 8 CYL SPINDLES
		87-88 07 00	DISC DISC	B4144WC	HEAVY DUTY	4 3/4″ 4 1/2″	\$795 \$705	FOR 4 CYL SPINDLES
		87-88	0136	B4145WC	HEAVY DUTY	4 1/2″	\$795	FOR 4 CYL SPINDLES

#### **APPLICATIONS - CONTINUED**

MAKE	MODEL	YEAR	OEM	PART#	ТҮРЕ	BOLT CIRCLE	PRICE	NOTES
GMC								
	SPRINT	71-72	DRUM	B4110WC	HEAVY DUTY	4 3/4″	\$795	
		71-72	DISC	B4112WC	HEAVY DUTY	4 3/4″	\$795	
		73-77	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	
		79-87	DISC	B4122WC	HEAVY DUTY	4 3/4″	\$795	
	JIMMY 4X2	83-90	DISC	B4122WC	HEAVY DUTY	4 3/4″	\$795	FOR 100.5" WHEEL BASE
	S15 4X2	82-90	DISC	B4122WC	HEAVY DUTY	4 3/4″	\$795	
	010 1/12	02.00	5100	BTILENO		1011	1700	
ME	RCURY							
	COMET	66-69	DRUM	B4134WC	HEAVY DUTY	4 3/4″	\$795	
	COUGAR	67-69	DRUM	B4134WC	HEAVY DUTY	4 3/4″	\$795	
		81-88	DISC	B4142WC	HEAVY DUTY	4 3/4″	\$795	
		81-88	DISC	B4143WC	HEAVY DUTY	4 1/2″	\$795	
OLDSM								
	F85	67-72	DRUM	B4110WC	HEAVY DUTY	4 3/4″	\$795	
		67-69	DISC	B4112WC	HEAVY DUTY	4 3/4″	\$795	
		73-77	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES*
	CUTLASS	73-77	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
		79-88	DISC	B4122WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
	DELTA 88	77-78	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
	OMEGA	73-74	DRUM	B4110WC	HEAVY DUTY	4 3/4″	\$795	
		73-74	DISC	B4112WC	HEAVY DUTY	4 3/4″	\$795	
		75-78	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
ע ום	МОИТН							
PLI	BARRACUDA	64-69	DRUM	B4156WC	HEAVY DUTY	4 1/2″	\$795	FOR 9" DRUM SPINDLES
	DANNAGUDA	65-69	DRUM	B4156WC B4162WC	HEAVY DUTY	4 1/2 4 1/2″	\$795 \$795	FOR 10" DRUM SPINDLES
		70-72	DRUM	B4162WC B4158WC		4 1/2 4 1/2″	\$795 \$795	FOR 10° DRUM SPINDLES
		70-72	DISC		HEAVY DUTY		\$795 \$795	
		70-72	DISC	B4159WC B4160WC	HEAVY DUTY HEAVY DUTY	4 1/2″ 4 1/2″	\$795 \$795	
		66-69	DISC	B4160WC B4158WC		4 1/2	\$795	
	BELVEDERE	00-09 70	DISC	B4158WC B4159WC	HEAVY DUTY HEAVY DUTY		\$795 \$795	
	GTX	70 67-69	DISC	B4159WC B4158WC		4 1/2″ 4 1/2″	\$795	
	617				HEAVY DUTY			
		70-71	DISC	B4159WC	HEAVY DUTY	4 1/2"	\$795	
	PLYMOUTH	62-64	DRUM	B4158WC	HEAVY DUTY	4 1/2"	\$795	
	ROAD RUNNER	68-69	DRUM	B4158WC	HEAVY DUTY	4 1/2"	\$795	
		70-72	DISC	B4159WC	HEAVY DUTY	4 1/2"	\$795	
	VALIANT	60-72	DRUM	B4156WC	HEAVY DUTY	4 1/2"	\$795	FOR 9" DRUM SPINDLES
		65-72	DRUM	B4162WC	HEAVY DUTY	4 1/2"	\$795	FOR 10" DRUM SPINDLES
		73-76	DISC	B4160WC	HEAVY DUTY	4 1/2″	\$795	

To order brake kit with two piece rotors- Include "2" at the end of he part number (i.e. B4110WC2) Add \$100 to prices shown for medium and heavy duty kits and \$150 for lightweight kits

\* SEE INSTRUCTION SHEET FOR DETAILS ON MODIFICATIONS www.strangeeng.net

#### **APPLICATIONS - CONTINUED**

MAKE	MODEL	YEAR	OEM	PART#	ТҮРЕ	BOLT CIRCLE	PRICE	NOTES
PONTIA	C							
	BONNEVILLE	82-86	DISC	B4122WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
	FIREBIRD	67-69	DRUM	B4110WC	HEAVY DUTY	4 3/4″	\$795	
		67-69	DISC	B4112WC	HEAVY DUTY	4 3/4"	\$795	
		70-78	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
		82-92	DISC	B4118WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
	FIREBIRD	93-01	DISC	B4180WC	HEAVY DUTY	4 3/4"	\$995	TRIM CONTROL ARMS *
	GRAND PRIX	73-77	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
		79-87	DISC	B4122WC	HEAVY DUTY	4 3/4"	\$795	MODIFY SPINDLES *
	LEMANS	73-77	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
		79-81	DISC	B4122WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
	PONTIAC	77	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
	PHOENIX	77-78	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
	TEMPEST	73-77	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
	VENTURA II	71-74	DRUM	B4110WC	HEAVY DUTY	4 3/4″	\$795	
		71-74	DISC	B4112WC	HEAVY DUTY	4 3/4″	\$795	
		75-77	DISC	B4114WC	HEAVY DUTY	4 3/4″	\$795	MODIFY SPINDLES *
CANTHI								
SANTIN	JFF STRUT			B4500WC	LIGHTWEIGHT	SPINDLE MOUNT	\$549	FOR 1 PIECE WHEELS
SANTHU	JEE SIKUI			B4500WC B4100WC	LIGHTWEIGHT HEAVY DUTY	SPINDLE MOUNT 4 3/4"	\$549 \$795	FOR 1 PIECE WHEELS
								FOR 1 PIECE WHEELS
	E STRUT	87 - PRESE	NT	B4100WC	HEAVY DUTY	4 3/4″	\$795	
		87 - PRESE	NT	B4100WC B4597WC	HEAVY DUTY	4 3/4" Spindle mount	\$795 \$549	FOR 1 PIECE WHEELS
	E STRUT	87 - PRESE	NT	B4100WC B4597WC B4598WC	HEAVY DUTY LIGHTWEIGHT LIGHTWEIGHT	4 3/4" SPINDLE MOUNT SPINDLE MOUNT	\$795 \$549 \$549	
	E STRUT	87 - PRESE	NT	B4100WC B4597WC B4598WC B4453WC	HEAVY DUTY	4 3/4" SPINDLE MOUNT SPINDLE MOUNT 4 1/2"	\$795 \$549 \$549 \$634	FOR 1 PIECE WHEELS
	E STRUT	87 - PRESE	NT	B4100WC B4597WC B4598WC B4453WC B4454WC	HEAVY DUTY LIGHTWEIGHT LIGHTWEIGHT MEDIUM DUTY MEDIUM DUTY	4 3/4" SPINDLE MOUNT SPINDLE MOUNT 4 1/2" 4 3/4"	\$795 \$549 \$549 \$634 \$634	FOR 1 PIECE WHEELS
	E STRUT	87 - PRESE	NT	B4100WC B4597WC B4598WC B4453WC	HEAVY DUTY LIGHTWEIGHT LIGHTWEIGHT MEDIUM DUTY	4 3/4" SPINDLE MOUNT SPINDLE MOUNT 4 1/2"	\$795 \$549 \$549 \$634	FOR 1 PIECE WHEELS
	E STRUT	87 - PRESE	NT	B4100WC B4597WC B4598WC B4453WC B4454WC B4153WC	HEAVY DUTY LIGHTWEIGHT LIGHTWEIGHT MEDIUM DUTY MEDIUM DUTY HEAVY DUTY	4 3/4" SPINDLE MOUNT SPINDLE MOUNT 4 1/2" 4 3/4" 4 1/2"	\$795 \$549 \$549 \$634 \$634 \$795	FOR 1 PIECE WHEELS
	E STRUT	87 - PRESE	NT	B4100WC B4597WC B4598WC B4453WC B4454WC B4153WC	HEAVY DUTY LIGHTWEIGHT LIGHTWEIGHT MEDIUM DUTY MEDIUM DUTY HEAVY DUTY	4 3/4" SPINDLE MOUNT SPINDLE MOUNT 4 1/2" 4 3/4" 4 1/2"	\$795 \$549 \$634 \$634 \$634 \$795 \$795	FOR 1 PIECE WHEELS
	<mark>e strut</mark> Aluminum		NT	B4100WC B4597WC B4598WC B4453WC B4454WC B4153WC B4154WC	HEAVY DUTY LIGHTWEIGHT LIGHTWEIGHT MEDIUM DUTY MEDIUM DUTY HEAVY DUTY HEAVY DUTY	4 3/4" SPINDLE MOUNT SPINDLE MOUNT 4 1/2" 4 3/4" 4 1/2" 4 3/4"	\$795 \$549 \$634 \$634 \$795 \$795 \$549	FOR 1 PIECE WHEELS For 2 Piece Wheels
	E STRUT Aluminum Ultra Strut Altered Ultra	ALL	NT	B4100WC B4597WC B4598WC B4453WC B4454WC B4153WC B4154WC B4154WC	HEAVY DUTY LIGHTWEIGHT LIGHTWEIGHT MEDIUM DUTY MEDIUM DUTY HEAVY DUTY HEAVY DUTY LIGHTWEIGHT	4 3/4" SPINDLE MOUNT SPINDLE MOUNT 4 1/2" 4 3/4" 4 1/2" 4 3/4" SPINDLE MOUNT	\$795 \$549 \$634 \$634 \$795 \$795 \$549	FOR 1 PIECE WHEELS FOR 2 PIECE WHEELS FOR ANGLIA WHEELS
STRANG	E STRUT ALUMINUM ULTRA STRUT ALTERED ULTRA D S3423 SPINDLES	ALL ALL ALL	NT	B4100WC           B4597WC           B4598WC           B4453WC           B4454WC           B4153WC           B4154WC           B4600WC           B4593WC           B45993WC	HEAVY DUTY LIGHTWEIGHT MEDIUM DUTY MEDIUM DUTY HEAVY DUTY LIGHTWEIGHT LIGHTWEIGHT	4 3/4" SPINDLE MOUNT SPINDLE MOUNT 4 1/2" 4 3/4" 4 3/4" SPINDLE MOUNT SPINDLE MOUNT SPINDLE MOUNT	\$795 \$549 \$634 \$634 \$795 \$795 \$549 \$549 \$549	FOR 1 PIECE WHEELS FOR 2 PIECE WHEELS FOR ANGLIA WHEELS FOR ANGLIA WHEELS
STRANG	E STRUT ALUMINUM ULTRA STRUT ALTERED ULTRA D	ALL	NT	B4100WC B4597WC B4598WC B4453WC B4454WC B4153WC B4154WC B4600WC B4593WC	HEAVY DUTY LIGHTWEIGHT MEDIUM DUTY MEDIUM DUTY HEAVY DUTY HEAVY DUTY LIGHTWEIGHT	4 3/4" SPINDLE MOUNT SPINDLE MOUNT 4 1/2" 4 3/4" 4 1/2" 4 3/4" SPINDLE MOUNT SPINDLE MOUNT	\$795 \$549 \$634 \$634 \$795 \$795 \$549 \$549 \$549	FOR 1 PIECE WHEELS FOR 2 PIECE WHEELS FOR ANGLIA WHEELS
STRANG	E STRUT ALUMINUM ULTRA STRUT ALTERED ULTRA S3423 SPINDLES STEEL SPINDLES	ALL ALL ALL	NT	B4100WC           B4597WC           B4598WC           B4453WC           B4454WC           B4153WC           B4154WC           B4600WC           B4593WC           B45993WC	HEAVY DUTY LIGHTWEIGHT MEDIUM DUTY MEDIUM DUTY HEAVY DUTY LIGHTWEIGHT LIGHTWEIGHT	4 3/4" SPINDLE MOUNT SPINDLE MOUNT 4 1/2" 4 3/4" 4 3/4" SPINDLE MOUNT SPINDLE MOUNT SPINDLE MOUNT	\$795 \$549 \$634 \$634 \$795 \$795 \$549 \$549 \$549	FOR 1 PIECE WHEELS FOR 2 PIECE WHEELS FOR ANGLIA WHEELS FOR ANGLIA WHEELS
STRANG	E STRUT ALUMINUM ULTRA STRUT ALTERED ULTRA S3423 SPINDLES STEEL SPINDLES	ALL ALL ALL	NT	B4100WC           B4597WC           B4598WC           B4453WC           B4454WC           B4153WC           B4154WC           B4600WC           B4593WC           B45993WC	HEAVY DUTY LIGHTWEIGHT LIGHTWEIGHT MEDIUM DUTY MEDIUM DUTY HEAVY DUTY HEAVY DUTY LIGHTWEIGHT LIGHTWEIGHT LIGHTWEIGHT	4 3/4" SPINDLE MOUNT SPINDLE MOUNT 4 1/2" 4 3/4" 4 3/4" SPINDLE MOUNT SPINDLE MOUNT SPINDLE MOUNT	\$795 \$549 \$634 \$634 \$795 \$795 \$549 \$549 \$549 \$549 \$549	FOR 1 PIECE WHEELS FOR 2 PIECE WHEELS FOR ANGLIA WHEELS FOR ANGLIA WHEELS

To order brake kit with two piece rotors- Include "2" at the end of he part number (i.e. B4110WC2) Add \$100 to prices shown for medium and heavy duty kits and \$150 for lightweight kits

\* SEE INSTRUCTION SHEET FOR DETAILS ON MODIFICATIONS www.strangeeng.net

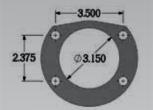
Brake kit part numbers listed below include soft metallic pads. Add suffix "H" for high heat metallic pads or "M" for hard metallic pads. For example: B1700WCH / B1700WCM. Choice of pads will not increase price.

Pro Series II Kits, with two-piece floating rotors, are available for all rear kits except Small Ford. For a Pro Series II kit, add "2" to the end of the part number. For example: B1700WC2 / B1700WCH2 / B1700WCM2 / B1700WCD2 / B1700WCDH2 / B1700WCDM2. The price will increase \$100 over the price shown.

Pro Series II Stainless Kits, with two piece stainless steel rotors and billet calipers, are available for Symmetrical and Olds ends. Add "2S" after the part number for these kits. For example: B1700WC2S / B1700WCH2S / B1700WCM2S / B1700WCD2S / B1700WCDH2S / B1700WCDM2S. The price will increase \$400 over the price shown.

Add \$150 to any Pro Series rear brake kit for low profile caliper option.\*

Add \$80 to any Pro Series rear brake kit for billet caliper option.\* \* Two options necessary for dual caliper brake kits

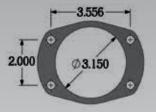


#### FORD (EARLY BIG FORD)

**B1707WC** Pro Series rear steel brake kit for Early Big Ford housing ends · F = 2.500"...\$595

B1708WC Pro Series rear steel brake kit for Early Big Ford housing ends - F= 2.3325"...\$595

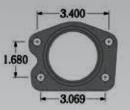
B1708WCD Pro Series rear steel DUAL caliper brake kit for Early Big Ford housing ends • F = 2.3325"...\$1,020



#### FORD (LATE BIG FORD)

B1706WC Pro Series rear steel brake kit For Late Big Ford housing ends - F = 2.500"...\$595

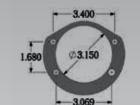
B1706WCD Pro Series rear steel DUAL caliper brake kit For Late Big Ford housing ends · F = 2.500"...\$1,020



#### FORD (8.8") MUSTANG

B1714WC Pro Series rear steel brake kit for OEM 8.8" Mustang housing ends using Strange axles & c-clip eliminator kit · F = 2.500"...\$595

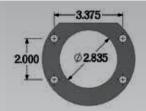
B1714WCD Pro Series rear steel DUAL caliper brake kit for OEM 8.8" Mustang housing ends using Strange axles & c-clip eliminator kit - F = 2.500"...\$1,020



#### FORD (STRANGE 8.8"/ 3.150")

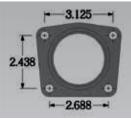
B1715WC Pro Series rear steel brake kit for Strange H1138 housing ends - F = 2.500"...\$595

B1715WCD Pro Series rear steel DUAL caliper brake kit for Strange H1138 housing ends - F= 2.500"...\$1,020



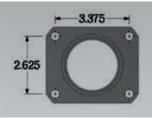
#### **FORD (SMALL FORD)**

**B1712WC** Pro Series rear steel brake kit for Small Ford housing ends · F = 2.625"...\$595



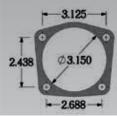
#### **GM (SMALL)**

**B1716WC** Pro Series rear steel brake kit for 67-77 OEM small GM housing ends using Strange axles & c-clip eliminator kit  $\cdot$  F = 2.832"...\$595



#### **GM (LARGE)**

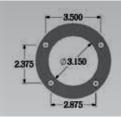
B1717WC Pro Series rear steel brake kit for OEM large GM housing ends using Strange axles & c-clip eliminator kit · F = 2.832"... \$595



#### **GM (STRANGE 3.150")**

B1718WC Pro Series rear steel brake kit for Strange H1143 GM housing ends -F = 2.832"... \$595

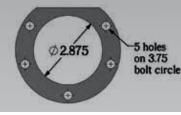
B1718WCD Pro Series rear steel DUAL caliper brake kit for Strange H1143 GM housing ends -F = 2.832"... \$1,020



#### OLDS

B1700WC Pro Series rear steel brake kit for 57-64 Olds housing ends - F= 2.832"... \$595

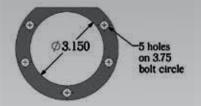
B1700WCD Pro Series rear steel DUAL caliper brake kit For 57-64 Olds housing ends · F = 2.832"... \$1,020



#### **MOPAR**

**B1704WC** Pro Series rear steel brake kit for 65-73 Mopar housing ends. Includes A1022 axle bearings  $\cdot$  F = 2.663"... \$635

B1704WCD Pro Series rear steel DUAL caliper brake kit For 65-73 Mopar housing ends - Includes A1022 axle bearings - F = 2.663''... \$1,020



#### MOPAR (STRANGE 3.150")

**B1705WC** Pro Series rear steel brake kit for Strange H1147 Mopar patterned housing ends F = 2.500"... \$595



#### **STRANGE (2-PC. AXLES)**

**B1711NBM** Pro Series rear steel brake kit for Strange L5500SBB housing ends No caliper mounts - F = 2.832"... \$545



#### SYMMETRICAL (3.150")

B1710WC Pro Series rear steel brake kit for Symmetrical housing ends - F = 2.832"...\$595

B1710WCD Pro Series rear steel DUAL caliper brake kit for Symmetrical housing ends - F= 2.832"...\$1,020

#### SYMMETRICAL (3.350")

B1711WC Pro Series rear steel brake kit for Strange H1136 / H1146 housing ends F = 2.832"...\$595

B1711WCD Pro Series rear steel DUAL caliper brake kit for H1136 / H1146 housing ends-F = 2.832"...\$1,020

#### TOYOTA

**B1720WC** Pro Series rear steel brake kit for 93-02 Toyota Supra... \$675

# STEEL REAR BRAKE KITS: CALIPER KITS



#### **STRANGE 4-PISTON CALIPER KITS**

Strange 4-piston directional caliper provides superior strength at only 2.70 lbs. The 1.750" and 1.625" OD stainless steel pistons assure optimal pad wear.

Strange 4-piston Billet non-directional caliper further increases bridge strength providing a firmer pedal feel. All four stainless steel pistons are 1.750" and are longer which creates 7% more clamping force and provides more piston stability. Available in black or red.

Strange Low Profile billet calipers are designed with the maximum wheel clearance available. Essential when using some of the latest 15" bead lock wheels, this caliper fits where others don't. Ribs are added to increase stiffness and piston design improves retraction reducing brake drag. Each caliper uses 4 independent pads that eliminate backing plate warpage and the associated problems.

	B1850	Directional 4 piston calipers with soft metallic pads & hardware- kit \$369	B1953	Billet black 4 piston calipers with high temp metallic pads & hardware- kit \$449		
	B1853	Directional 4 piston calipers with high temp metallic pads & hardware- kit\$369	B1955	Billet black 4 piston calipers with hard metallic pads & hardware- kit \$449		
	B1855	Directional 4 piston calipers with hard metallic pads & hardware- kit \$369	B1950-RD	Billet red 4 piston calipers with soft metallic pads hardware- kit\$449		
		(shown next page)	B1953-RD	Billet red 4 piston calipers with high temp metallic		
2	B1850LP	Billet low profile calipers with soft metallic pads		pads & hardware- kit\$449		
Ş		& hardware kit \$569	B1955-RD	Billet red 4 piston calipers with hard		
	B1853LP	Billet low profile calipers with high temp metallic		metallic pads & hardware- kit\$449		
		pads & hardware kit \$569	Caliper mou	inting bolt holes are on 5.250" centers on all		
	B1855LP	Billet low profile calipers with hard metallic pads & hardware kit\$569	above kits			
	B1950	Billet black 4 piston calipers with soft metallic pads & hardware- kit\$449				

# STEEL REAR BRAKE KITS: CALIPER KITS



#### **Strange 2-Piston Caliper Kit**

Manufactured from aircraft quality aluminum and machined to exacting tolerances. This caliper kit is recommended for vehicles weighing under 2,600 lbs.

B1825 2 piston calipers with soft metallic pads and mounting hardware mounting bolt holes are on 3.250" centers- kit .......\$195



#### **Strange Single Piston Caliper Kit**

Employs a unique slider assembly that features internal bearings and precision ground sliders to prevent the caliper from binding and sticking, which is common with other brands. The caliper body is fully machined and lightened- satisfying the most weight conscious racer.

B1816 Single piston calipers and slider assemblies with soft metallic pads- kit ... \$255



Every Strange caliper is internally ported and includes square o-rings to assist in piston retraction and fluid retention. Kits include calipers, pads, and necessary hardware.

# STEEL REAR BRAKE KITS: COMPONENTS



# STRANGE REPLACEMENT ROTORS

B2780	Lightweight 10" slotted rotor for Strange Aluminum Strut
	using single piston caliper with 1.50" offset rotor-
999	RH side\$130

- B2781 Lightweight 10" slotted rotor for Strange Aluminum Strut using single piston caliper with 1.50" offset rotor-LH side............\$130
- B2782 Lightweight 10" slotted rotor for Strange Ultra Strut, Anglia style spindle, and Strange Aluminum Strut using single piston caliper with 1.00" offset rotor-RH side......\$130
- B2783 Lightweight 10" slotted rotor for Strange Ultra Strut, Anglia style spindle, and Strange Aluminum Strut using single piston caliper with 1.00" offset rotor-LH side......\$130
- B2786R Pro Series II two piece 10" slotted rotor for Strange Ultra Strut, Anglia style spindle, and Strange Aluminum Strut using single piston caliper with 1.00" offset rotor -RH side......\$250
- B2786RS Pro Series II two piece 10" slotted stainless steel rotor for Strange Ultra Strut, Anglia style spindle, and Strange Aluminum Strut using single piston caliper with 1.00" offset rotor - RH side .......\$350
- B2786L Pro Series II two piece 10" slotted rotor for Strange Ultra Strut, Anglia style spindle, and Strange Aluminum Strut using single piston caliper with 1.00" offset rotor -LH side......\$250

- B2786LS Pro Series II two piece 10" slotted stainless steel rotor for Strange Ultra Strut, Anglia style spindle, and Strange Aluminum Strut using single piston caliper with 1.00" offset rotor - LH side......\$350
- B2792 11.250" slotted rotor for Pro Series rear brakes- RH .....\$145
- B2793 11.250" slotted rotor for Pro Series rear brakes- LH ......\$145
- B2794R 11.250" slotted rotor for Pro Series II two piece rear brakes- RH ......\$195
- B2794L 11.250" slotted rotor for Pro Series II two piece rear brakes- LH ......\$195
- B2794RS 11.250" slotted stainless steel rotor for Pro Series II two piece rear brakes- RH ......\$295
- B2794LS 11.250" slotted stainless steel rotor for Pro Series II two piece rear brakes- LH ......\$295
- B2795 11.250" tapered slotted rotor for MD and HD front brake kits- RH .....\$145
- B2796 11.250" tapered slotted rotor for MD and HD front brake kits- LH .....\$145

# STEEL REAR BRAKE KITS: COMPONENTS



# CALIPERS, PADS, & REBUILD KITS

- B1260 Strange 1.750" single piston floating caliper for steel brakesslider not included... \$85
- B1262 Strange 1.750" single piston floating caliper for 10" carbon brakes- slider not included...\$135
- B1263 Strange 2.00" single piston floating caliper for 10" carbon brakes- slider not included... \$135
- B1264 Strange 2.00" single piston floating caliper for 11" carbon brakes- slider not included... \$135
- B2560 Strange 2-piston caliper 3.250" bolt centers... \$90
- B5002 Strange Pro Series 4-piston directional caliper 5.250" bolt centers - RH side ... \$159
- B5004 Strange Pro Series 4-piston directional caliper 5.250" bolt centers - LH side... \$159
- B1900 Strange Black Pro Series 4-piston Billet caliper 5.250" bolt centers...\$199
- B1900-RD Strange Red Pro Series 4-piston Billet caliper 5.250" bolt centers...\$199
- B2510 Pad for Strange single and 2-piston caliper for steel rotors... \$9
- B5080 Strange Low Profile 4-piston caliper 5.250" bolt centers... \$245
- B5010 Pad for Strange 4-piston caliper Soft metallic... \$18

- B5022 Pad for Strange 4-piston caliper High Temp metallic..... \$18
- B5020 Pad for Strange 4-piston caliper Hard metallic.... \$18
- B1260RK Strange single piston caliper o-ring kit various o-rings for all versions... \$5
- B2607 O-ring kit for late Strange 2-piston caliper using stainless steel pistons-96 to pres... \$5
- B2605 O-ring kit for early Strange 2-piston caliper using aluminum pistons-Pre 96... \$5
- B5109 O-ring kit for Strange Pro Series 4-piston caliper Directional- 1.625" | 1.750" bores...\$9
- B5109R O-ring kit for Strange Pro Series 4-piston caliper Directional- Low Dragconversion ... \$9
- B5106 O-ring kit for Strange S-Series 4-piston caliper Non-directional-1.750" bores... \$9
- B5106R O-ring kit for Strange S-Series 4-piston caliper Non-directional- Low Drag conversion... \$9
- B5105 O-ring kit for early Strange 4-piston caliper Various o-rings for all versions- Pre 96... \$11

Rebuild kits service one caliper Brake pads are sold as each

- B3341 Pad for Airheart 175H, Kelsev-Haves 400 / 500 & Wilwood 120-1064 caliper.....\$8
- B4010 Pad for Strange low profile four piston caliper -Soft Metallic.....\$15
- B4020 Pad for Strange low profile four piston caliper -Hard Metallic.....\$15
- B4022 Pad for Strange low profile four piston caliper -High Heat Metallic....\$15
- B3325 Pad for Wilwood / JFZ 4-piston caliper Soft metallic- Cotter pin retention.....\$20 B3326 Pad for Wilwood / JFZ 4-piston caliper Hard metallic- Cotter pin retention.....\$20
- Rebuild kits service one caliper

Brake pads are sold as each

# SEAKES

# FRONT CARBON BRAKE KITS



Strange Engineering developed carbon brakes back in the 1980's, for Top Fuel and Funny Car teams, to eliminate brake fade and allow for safe braking under immense braking loads. Presently, Strange carbon brakes have become essential for all cars demanding optimum braking and maximum weight reduction. Rotating weight is decreased by over 8 lbs, and total weight by over 11 lbs compared to steel and cast iron kits.

The rotors and pads are manufactured from carbon-carbon material. This substance is carbon fiber that has been reinforced with a carbon matrix. The result is a medium that is very stable under extreme temperatures and can withstand "white hot" temperatures during braking. The rotors are virtually immune to thermal shock, which in heavy braking conditions may cause steel rotors to warp and cast iron rotors to crack and eventually shatter. Thermal shock occurs when the rotors start out cool, at the starting line, and then instantly become hot when the brakes are applied at the end of a run. Strange Carbon brakes offer several advantages when compared to steel or cast iron rotors, including the following:

- Safety and Performance
- Lightest kit on the market
- Stopping power and efficiency is unsurpassed
- Entire 11" carbon rear brake kit is under 15 lbs
- Eliminates rotor warpage and brake fade Long rotor & pad life
- Immune to thermal shock
- Less brake drag

There are several applications available from Strange Engineering and are explained in detail in the proceeding sections. The front brake kits offered for spindle mount wheels are 11" rotors with 2" piston calipers. Strange Aluminum struts using 4 3/4" BC bolt-on wheels have a heavy duty carbon brake kit available that also includes hubs, studs, bearings, races, and seals. Rear carbon kits include 11" Pro Race and the 11.50" for the Strange Live Axle.

# FRONT CARBON BRAKE KITS

Strange has developed a new carbon material that has excellent static and non-static characteristics, while still yielding exceptional life. Strange front carbon brakes offer many advantages over front steel and cast iron rotors. The advantages include the elimination of cracked or warped rotors, less brake drag, and a significant reduction in weight. The complete carbon front brake kit weighs a total of 8.50 lbs.

This proven carbon kit features a perfected caliper kit that employs a unique slider assembly, which includes internal bearings and precision ground sliders to prevent the caliper from binding or sticking. Square carbon pads have a generous surface area allowing for optimum braking.

Strange now has available a single piston front caliper incorporating a 2" diameter piston. This design offers additional clamping force while stabilizing the piston within the caliper bore. When used with 11" front rotors, the braking ability is further enhanced. Chassis construction may need to be reinforced to handle the additional stresses imposed. Some older spindle mount wheels may not provide the proper clearances required for the 2" caliper or the 11" rotor.

> The Strange front carbon kit is the choice of prominent Fuel Funny Car teams, Competition Eliminator contestants, Pro-Mod and Pro Stock cars.

C4694WC For '09 + Strange adjustable height spindles (S3423) 2" piston calipers\* with 11" rotors ......\$2,950 C4695WC For Pre '09 Strange adjustable height spindles (S3422) 2" piston calipers\* with 11" rotors ......\$2,950 C4154WC For Strange Aluminum Struts (4 3/4" BC bolt-on wheels) Four piston calipers with 11" rotors .....\$3,445 C4690WC For Strange Ultra Struts 2" piston calipers\* with 11" rotors .....\$2,950 C4696WC For Lamb struts 2" piston calipers with 11" rotors ......\$2,950 C4502WC For Santuff struts 2" piston calipers\* with 11" rotors ......\$2,950

\* 2" piston calipers are for 1 piece wheels only. American and Sanders wheels require calipers to be clearanced

Strange Front Carbon Kits include the following: calipers with slider assemblies, billet aluminum caliper mounts, carbon rotors and carbon brake pads. The Heavy Duty kit for Strange Aluminum struts have fixed four piston calipers, billet mounts, 11" carbon rotors, carbon pads, 4 3/4" BC hubs, studs, bearings, races, and seals.

# REAR CARBON BRAKE KITS



The Strange Pro Race 11" carbon brake kit was developed to satisfy one of the most demanding and competitive racers in NHRA history- Warren Johnson. After not being satisfied with other braking systems in the industry, he approached Strange Engineering to develop a carbon brake system to meet his stringent expectations. After intensive field testing and Warren's valued input, the result was a carbon system that surpassed his expectations. Strange 11" carbon has evolved beyond its competition and is widely used by past, present and future World Champions. The following are highlights of the Strange Pro Race Carbon kit.

(1) Ultra Caliper- This caliper offers the following improvements to the already race proven Strange directional caliper:

(A) Incorporates a unique two piece piston design, combining the exceptional thermal insulating characteristics of 303 stainless steel with the lightweight properties of aluminum. The result is substantially reduced heat transfer to the brake fluid, preventing boiling when the rotors become extremely hot. This design also eliminates heat shields which, if not periodically replaced, eventually warp causing brake drag and a spongy pedal.

(B) Stainless steel bushing to eliminate all shims and washers. Time is valuable between rounds, therefore we eliminated all spacers, washers and shims. The Ultra Caliper has a stainless steel flanged bushing that is pressed into each caliper mounting hole by Strange. The bushing guides the mounting bolt as well as provides a flat and wear-free mounting surface for the caliper mounting bolt.

(2) The least amount of rotating & static weight- The entire assembled rear 11" carbon brake kit weighs only 14.95 lbs. One 11" carbon disc weighs a meager 1.68 lbs. The same 11" carbon disc, after being assembled on an aluminum rotor hat, only weighs 3.10 lbs. An individual carbon pad weighs .20 pounds.

(3) 11" carbon rotors and carbon pads- The 11" carbon rotors are .50" smaller than other kits on the market. This generates heat more quickly than 11.50" carbon, providing optimum braking for Pro and Sportsman racers. The 11" carbon also provides the lightest rear disc weight on the market at a mere 1.68 lbs for the disc alone, and 3.10 lbs for the disc mounted to the aluminum hat. The less cumbersome rotor is more conveniently removed when making adjustments to the rear of the vehicle. Each brake pad has been slotted to allow carbon dust to escape, improving rotor and pad longevity.

(4) Aluminum carbon rotor hat- The carbon rotor hat withstands the intense heat created by the release of energy through the braking system. They are manufactured from a heat resistant aluminum and hard coated to further insulate the material. By incorporating separate aluminum retaining rings, loads from the rotor mounting bolts are evenly spread across the surface.

(I.E. C18005UC)	C18104NBUC For Strange L5500SBB housing ends using Strange two piece axles- 4.75" BC- F= 2.351"- Mounts not included\$2,850
the part number	C1209WC For pre 2012 Strange floater kit- 4.75" & 5" BC\$3,250
For 5" BC - Replace "4" with "5" in	C1200WC For pre 2012 Strange floater kit· 5.50" BC\$3,250
pads.	C2000WC Steel brake to Carbon brake conversion kit (2012+) Strange floater kit\$2,650
mounting hardware, 11" carbon rotor assemblies, and slotted carbon brake	C18104DBUC For Strange H1136 housing ends 4.75" BC· F= 2.832" \$2,950
billet aluminum caliper mounts,	C18104UC For Symmetrical housing ends 4.75" BC- F = 2.832" \$2,950
include the following: Ultra calipers,	C18084UC For Early Big Ford housing ends 4.75" BC- F= 2.332" \$2,950
Strange Pro Race Rear Carbon Kits	C18004UC For Olds housing ends 4.75" BC- F= 2.832" \$2,950

# REAR CARBON BRAKE KITS



Strange 11.50" kits are available for all Strange top loader Live Axle Designs - 9" / 9.50", 10.50", and 12". The 11.50" rotor is used in order to provide the largest braking surface practically possible. Funny cars and Top Fuel Dragsters have an enormous amount of energy to be released through the rotor during braking. Imagine trying to stop a vehicle traveling 330 mph with a parachute malfunction. The Strange 11.50" carbon brakes have saved several drivers involved in dangerous situations. Carbon 11.50" rotors provide a safe stop for the fastest cars in the world at a disc weight of only 1.88 lbs.

The 11.50" is standard issue on every Strange 10.50" and 12.00" Live Axle. The 11.50" carbon kit is optional on the Strange 9" / 9.50" live axle. An 11.50" carbon kit is also available for the Chrisman Live Axle. Call for more information.

L4050WC

Carbon brake kit for 11/12 and older Strange 9" / 9 1/2" Top Load Live Axle .......\$3,595

#### **CARBON REPLACEMENT COMPONENTS**

159 159 ).5″

C1780	10" front carbon rotor\$795
C1790	11" carbon rotor- Front or rear\$795
L4050B	11.50" rear carbon rotor \$1,150
B1250P	Single piston front carbon pad \$135
L4050H	4 piston carbon pad- Non-slotted \$163
L4050H1	4 piston carbon pad- Slotted at 1:00 \$175
L4050H2	4 piston carbon pad- Slotted at 11:00 \$175
B5002	4 piston Sportsman directional caliper- RH side\$1
B5004	4 piston Sportsman directional caliper- LH side $\$$
B5040	4 piston Pro Race Ultra Caliper for floater kits & 10 & 12" Live Axles\$385

B5042 4 piston Pro Race Ultra Caliper for 9.5" Live Axle & Pro Race carbon brake kits ............ \$385

L4050S	.024" Ti heat shield for Sportsman carbon caliper \$13
L4050T	.060" SS heat shield for Sportsman carbon caliper \$9
B1260RK	O-ring kit- single piston caliper with 1.750" or 2" piston \$5
B5109	O-ring kit- 4 piston Sportsman directional caliper \$9
B5109R	Low Drag o-ring kit- 4 piston Sportsman directional caliper \$9
B5110	O-ring kit for 4 piston Pro Race Ultra Caliper \$9
	X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

# **MASTER CYLINDERS, VALVES GAUGES & FITTINGS**

The Strange dual in-line master cylinder is ideal for sportsman classes requiring four wheel braking. The 1.032" bore master cylinder should be used if single piston or 2-piston calipers are used for the front and 4-piston on the rear. The 1.125" bore master cylinder will allow optimum volume and pressure for vehicles using 4-piston calipers front and rear.

Strange aluminum body Includes hard-line fittings Economical Holes provided for side mount application
 Both front and rear outlets are tapped 1/2-20

B3359	1.125" bore master cylinder with mounting hardware \$99	
B3359TA	1.125" bore master cylinder without mounting hardware\$85	
B3360	1.032" bore master cylinder with mounting hardware\$99	
B3360TA	1.032" bore master cylinder without mounting hardware\$85	<b>O</b>

B3359M 1979-1993 Mustang Manual Brake conversion kit. Fits automatic & manual transmission pedal boxes. Includes 1.125" bore aluminum master cylinder, billet aluminum adapter plate, push rod, dust boot, rod end, banjo fittings, and all necessary mounting hardware........ \$169

The B3370 is for professional racers who demand the best foundation for superior four wheel braking. The fast fill design allows the rear calipers to achieve exceptional caliper pressure with minimum pedal/handle travel. The body design further ensures maximum rigidity, while minimizing weight. The B3370 is self proportioned, which in most cases eliminates the use of an external proportioning valve. The external billet aluminum remote reservoir eliminates residual valves and its compact design eases mounting.

#### B3370

B3370R Rebuild kit for B3370 master cylinder ...... \$55

C. Suchast

The B3362 fast fill master cylinder allows for maximum consistency and a pedal / handle feel which is unparalleled. Designed for two wheel braking applications, the lightweight body and reservoir weigh only 1 lb. The forged aluminum body features a premium grade banjo fitting for plumbing adaptability. The remote reservoir and filler cap is machined from billet aluminum that resists heat and will not easily melt like plastic. The remote feature enables the builder to eliminate external residual valves and its compact design offers freedom in mounting and plumbing.



Standard is 22mm - 7/8" and 11/16" bore sizes are also available

# **MASTER CYLINDERS, VALVES GAUGES & FITTINGS**

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The B-3369 can replace an OEM non-adjustable proportioning valve, or used in new vehicle construction. Any brake system needs to be properly proportioned to effectively stop a vehicle. Drag race applications commonly have a much greater tire contact area on the rear tire in comparison to the front. The adjustable proportioning valve is installed into the front brake line, reducing front pressure until the desired front to rear bias is achieved. Street vehicles typically install the valve into the rear brake line, allowing reduction in rear brake pressure. A brake pressure gauge, such as the P2360, should be used to check pressures front and rear before the vehicle is driven. The adjustable proportioning valve will not increase line pressure, it can only reduce. The B-3369 is threaded 1/8" NPT.

B3369 Adjustable proportioning valve ... \$49

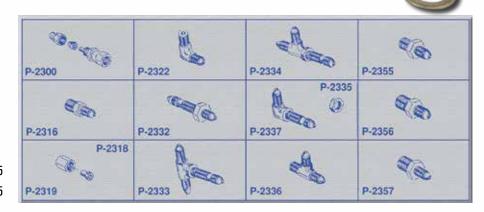
EXTERNAL RESIDUAL PRESSURE VALVES are used when the master cylinder is mounted at or below the level of the calipers or when drum brakes are used. If not, a long pedal travel and poor braking can occur. The valve maintains a low pressure of fluid between the valve and the brake caliper or wheel cylinder. This keeps the pads or shoes ready to move as soon as the pedal is depressed. Drum brakes need a 10 lbs valve to keep the wheel cylinder cups expanded. Disc brake applications require a 2 lbs valve only when the master cylinder is mounted at or below the level of the calipers. External residual valves are best installed as close as possible to the master cylinder. Each valve is manufactured from billet aluminum and is tapped 1/8" NPT on both ends.

B3366 2 lbs external pressure valve ... \$22

B3367 10 lbs external pressure valve ... \$22

The P2360 GAUGE accurately measures brake line pressure. Without proper brake pressure, even quality braking systems can be rendered significantly less effective. This gauge verifies pressure and is essential for trouble shooting brake system problems. The Strange pressure gauge makes it easier to determine appropriate changes in pedal ratio or to select the proper master cylinder bore size. Each gauge is shipped with a bleeder adapter for further convenience.

P2360 Brake pressure gauge & adapter ... \$32



P2356 3 AN x 1/2-20	adapter for Strange	e B3360 / B3359	\$9
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B3359J

P2357 3 AN x 9/16-20 master cylinder adapter ......\$9 B3359J 3AN x 1/2-20 master cylinder banjo fitting......\$25

- **BRAKE FITTINGS**
- P2335 Nut for 3 AN bulkhead fitting ..... \$1
- P2336 3 AN x .125" NPT tee on run ..... \$13
- P2337 3 AN bulkhead 90° elbow ...... \$15
- P2339 Weld-on bracket for bulkhead fitting- For round tubing ...... \$3

# **BRAKE LINE & REAR BRAKE KITS**



P2338 3/16" steel brake line- 25 ft roll ... \$32 P2340 16" braided stainless flex line with 3 AN straight / 90° ends ... \$18 P2341 18" braided stainless flex line with 3 AN straight ends ...... \$21 P2342 20" braided stainless flex line with 3 AN straight ends ...... \$21 P2343 22" braided stainless flex line with 3 AN straight ends ...... \$21 P2383 Front door car 3 AN fitting & hose kit for plumbing from calipers to line lock- Hard line not included ...... \$88



- P2384 Rear door car 3 AN fitting & hose kit for plumbing from calipers to master cylinder- Hard line not included ... \$83



Brake components designed for Street / Track vehicles must be able to endure the elevated heat conditions that exist under constant use. Drum brakes are fine for many street cars, but do not offer sufficient heat dissipation for track use. In a drum brake assembly, the braking surface, shoes, and wheel cylinder are all enclosed limiting heat dissipation. A disc system has everything exposed to the surrounding air providing a more efficient braking system. When changing brakes, it is important to look at the master cylinder, pedal assembly, proportioning valve, and brake lines. What has worked well with the OEM brakes, may now be completely wrong for the new brake system.

## BRAKE LINE & REAR BRAKE KITS

#### WILWOOD REAR DISC BRAKE KITS

The Wilwood rear disc brake kits are an excellent value and ideal for street and street/track vehicles. These kits include rotors, calipers, internal parking brakes, mounting brackets, and attaching hardware. The rotors are for 5 lug wheels, and have 4 1/2", 4 3/4", and 5" bolt circles for use with 1/2" wheel studs. Rotors can have one bolt pattern modified for 5/8" studs for an additional \$15. Caliper mounting brackets fit the Late Big Ford housing end (Strange H1137). These kits are designed for a 2.50" brake offset ("F" dimension), 3.060" brake register ("A" dimension), axle flange OD of 6.61" or less ("D" dimension), and require a 1.00" access hole on a 4.50" BC. The 11" Low Profile kit will fit some 14" wheels (minimum inside diameter of 13.14") and all 15" or larger. The 12.190" will fit some 15" wheels (minimum inside diameter of 14.2") and larger. The brake hoses and parking cables are not included.



- B2708WC Wilwood 12.19" brake kit with parking brake for Late Big Ford ends  $\cdot$  H1137 A = 3.060"  $\cdot$  F = 2.500"  $\cdot$  4 1/2" & 4 3/4" for 1/2" studs ... \$750
- B2707WC \* Wilwood 12.19" brake kit with parking brake for Late Big Ford ends  $\cdot$  H1137 A = 3.060"  $\cdot$  F = 2.500"  $\cdot$  4 1/2" & 4 3/4" for 1/2" studs ... \$750
- B2709WC Wilwood 11" Low Profile brake kit with parking brake for Late Big Ford ends H1137 A=3.060" · F=2.500" · 4 1/2" & 4 3/4" for 1/2" studs ... \$599
- B2710WC \* Wilwood 11" Low Profile brake kit with parking brake for Late Big Ford ends H1137  $A = 3.060" \cdot F = 2.500" \cdot 4 1/2" \& 4 3/4"$  for 1/2" studs ... \$599

\* For staggered rear shocks - One caliper mounts forward and one rearward All kits supplied with black calipers - Other colors available at an additional charge Rotors can be drilled for 5/8" studs in one bolt circle for \$15 pair

#### **DRUM BRAKE KITS**

Both 11" drum brake kits fit a brake register size of 2.780" ( "A" dimension). Drums are drilled to accept 1/2" wheel studs and have 5 lug 4 1/2 & 4 3/4" bolt circles. They can be drilled for an additional bolt circle or machined to accept 5/8" studs for an additional \$15<sup>oo</sup>. The B1606 kit fits the Late Big Ford housing end, Strange H1137, with a brake offset of 2.50" ("F" dimension). The B1608 fits the Early Big Ford housing end, Strange H1135, with a brake offset of 2.332" ("F" dimension). The brake hoses and parking cables are not included.

- B1606 Drum brake kit for Late Big Ford ends H1137 A = 2.780" - F = 2.500" - 4 1/2" & 4 3/4" for 1/2" studs ..... \$495
- B1608 Drum brake kit for Early Big Ford ends H1135 A=2.780" - F=2.332" - 4 1/2" & 4 3/4" for 1/2" studs ..... \$645

## COIL-OVER, STRANGE ALUMINUM, KONI ALUMINUM

#### DRAG RACE ALUMINUM COIL-OVER

**SHOCKS:** Strange Drag Race aluminum coil-over shocks were developed with the help of several chassis builders, Pro-Mod racers, and World Champion Sportsman racers. The hard work culminated into a shock that is highly responsive, consistent, and can be easily adjusted to adapt to slight changes in atmospheric conditions. Each Strange shock body, eyelets, spring seat and jam nut are fully machined from high-grade aluminum. Strange fully assembles and inspects each shock. The Strange dynamometer facility enables us to analyze shocks at all shaft speeds and continue our valve development to stay at the forefront of Drag Racing shock technology. The shocks incorporate a wide range of adjustments that suit most needs, but custom valving is always available.

#### STRANGE ALUMINUM SINGLE ADJUSTABLE:

These coil-over shocks are designed to simplify the process of tuning your suspension. When adjustments become necessary to a drag race vehicle, Strange shocks prove to be a valuable tool to alter the reaction of the suspension to compensate for the change in conditions. Shock extension is easily adjusted by turning a conveniently located external knob. The external knob offers 10 precise extension (rebound) settings and allows for a wide range of adjustment.

#### STRANGE ALUMINUM DOUBLE ADJUSTABLE:

Double adjustable coil-over shocks are offered to drag racers requiring more control of the suspension system. The double adjustable shock offers all the benefits of the single adjustable shock, but also incorporates an additional knob for accurately adjusting compression (bump). The ability to independently adjust both extension and compression allows the chassis tuner complete dampening control of the vehicle's suspension.

Strange double adjustable shock package include Teflon lined high misalignment bearings, spring seat bearings and Hyperco Springs. Hyperco springs are supplied to ensure consistent performance and alleviate additional problems that may be introduced with lesser grade springs. **Double Adjustable Shock Kit** 

#### KONI ALUMINUM DOUBLE ADJUSTABLE: Koni

coil-over shock absorbers feature SPA 1 valving. SPA 1 valving is velocity sensitive, which allows for hard launches and allows proper "unwinding" of the rear suspension. They are produced from quality materials and surfaces are machined to close tolerances. Extension (rebound) is adjusted through a slot under the top eye, while compression (bump) is adjusted above the bottom eye. Every Koni shock is 100% dyno tested to assure optimum performance.

Strange Single Adjustable Shock

## COIL-OVER, STRANGE ALUMINUM, KONI ALUMINUM

Part Number	Extended Length	Collapsed Length without Bumper	Recommended Ride Height	*Stroke	Suggested Spring Length	Adjustment Type
S5209	22.40″	14.25″	17"-20"	8.15″	14″-16″	Strange Single
S5009	22.40″	14.25″	17"-20"	8.15″	14″-16″	Strange Double
S5208	20.53″	13.32″	15″-19″	7.20″	14″-16″	Strange Single
S5008	20.53″	13.32″	15″-19″	7.20″	14″-16″	Strange Double
S5207	19.15″	12.64″	15.25"-16.00"	6.52″	14″	Strange Single
S5007	19.15″	12.64″	15.25"-16.00"	6.52″	14″	Strange Double
S5206	17.15″	11.64″	13.875″-14.50″	5.52″	12″	Strange Single
S5006	17.15″	11.64″	13.875"-14.50"	5.52″	12″	Strange Double
S5205	15.40″	10.76″	12.625″-13.250″	4.64″	12″	Strange Single
S5005	15.40″	10.76″	12.625"-13.250"	4.64″	12″	Strange Double
S5204	13.84″	10.00″	11.750"-12.125″	3.86″	10″	Strange Single
S5004	13.84″	10.00″	11.750"-12.125"	3.86″	10″	Strange Double
S5203	12.84″	9.50″	11.00"-11.375"	3.36″	7″-8″	Strange Single
S5003	12.84″	9.50″	11.00"-11.375"	3.36″	7″-8″	Strange Double
S5202	11.36″	8.74″	10.00"-10.375"	2.62″	7″-8″	Strange Single
S5002	11.36″	8.74″	10.00"-10.375"	2.62″	7″-8″	Strange Double
S1123A	19.5″	12.5″	16.625"-17.38"	7″	14″	Koni Double
S1126A	17.5″	11.5″	15.25"-15.875"	6″	12″	Koni Double

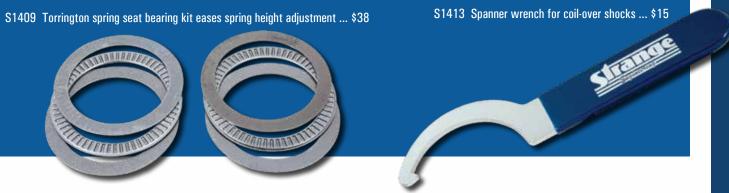
\* Stroke is stated without the bump rubber installed to comply with the industry standard and be comparable to other brands. Deduct .563" from Strange shock stroke and 2.1875" from the Koni to obtain usable stroke. Shocks should not be operated without the bump rubber.

KONI DOUBLE ADJUSTABLE SHOCK: Includes .625" wide bearings, spring seat, and jam nut .......... \$450 each

**STRANGE DOUBLE ADJUSTABLE SHOCK PACKAGE:** Includes 1" wide\* Teflon lined high mis-alignment bearings, spring seats, jam nuts, Hyperco springs, and spring seat bearing kit ........ \$680 package

STRANGE SINGLE ADJUSTABLE SHOCK: Includes 1" wide\* high mis-alignment bearings, spring seat, and jam nut ... \$179 each

Part numbers for Strange Single Adjustable Shocks are for one shock. Part numbers for Strange Double Adjustable are for Shock Package (specify spring rate). For Strange Double Adjustable shock sold individually (less spring and spring seat bearings) add "A" to the end of the part number (i.e. S5007A · \$302 each).



## **ULTRA SERIES DRAG RACE COIL-OVER SHOCKS**



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#### **STRANGE ULTRA SERIES DOUBLE ADJUSTABLE SHOCK**

Strange Engineering brings advanced shock technology into the Drag Racing market. As racers become more knowledgeable in chassis tuning, many are seeking gualities normally reserved for tier one vehicles used in other forms of motorsports. These double adjustable shocks address the internal events that normally occur during use, drastically reducing undesired changes in shock dampening. Monotube construction is lighter (and less unsprung weight) than a twin tube design, and dissipates heat more efficiently. The shock features a hollow shock rod, which has less inertia making it more responsive to changes in direction; In addition, the shaft is optimally hardened for increased strength, chromed, and super finished to provide superior life and reduce both deflection and friction. The ultra low friction guide and seal are self-aligning, which reduces low speed abrasion and wear that occurs during side loading and temperature changes. The large 48mm piston is manufactured from billet aluminum, hard anodized, and Teflon® coated. The larger piston area achieves higher dampening forces with lower internal pressures. A thin Teflon® coated piston band further reduces friction while allowing a straighter port design that minimizes changes in fluid direction. The result is faster frequency response and lowered hysteresis, which permits a more progressive dampening force without the downside of additional lag that would normally accompany it. The extension and compression oil paths are completely sealed from each other eliminating any cross talk between them.

The strange ultra monotube shocks are available in common configurations (listed below) and are revalvable. Custom configurations and valving are available upon request (additional cost may apply). The ultra shock is a key component in the suspension system that will deliver consistency, improved launch , down track stability and ultimately allow you to better tune your vehicle for superior performance. All shocks are hand assembled by Strange in the USA.

IN-LINE Shorter Oil Path Provides Quicker Response to Compression Forces / Compact Design								
Part Number	Extended Length	Collapsed Length without Bumper	Recommended Ride Height	*Stroke	Suggested Spring Length			
S7210I	25.68″	16.30″	18.50"-22.50"	9.38″	14"-16″			
S7209I	23.45″	15.20″	17.50″-20.50″	8.25″	14″			
S7207I	19.59″	13.26″	15.25"-16.50"	6.33″	12″			
S7205I	16.69″	11.81″	13.25″-14.25″	4.88″	10″			
S7204I	15.30″	11.14″	12.50"-13.50"	4.16″	8″			
S7203I	13.79″	10.36″	11.50″-12.25″	3.43″	7″			

Piggyback Shorter Length to Stroke / Accepts Longer Spring / Easily Converts to Air Adjustable

Part Number	Extended Length	Collapsed Length without Bumper	Recommended Ride Height	*Stroke	Suggested Spring Length
\$7210S	25.15″	15.80″	18″-22″	9.35″	14″-16″
S7209S	22.95″	14.70″	17″-20″	8.25″	14″-16″
S7207S	19.00″	12.80″	14.75″-16.00″	6.20″	12″-14″
S7205S	16.28″	11.28″	12.75″-13.75″	5.00″	10″-12″
S7204S	14.94″	10.64″	12″-13″	4.30″	8″-10″
S7203S	13.38″	9.85″	11"-11.75"	3.53″	7″- 8″

\* Stroke is stated without the bump rubber installed to comply with industry standards and be comparable to other brands Shocks should not be operated without the bump rubber / Contact Strange Engineering for available bumper lengths

## ULTRA SERIES DRAG RACE COIL-OVER SHOCKS



Integral (Piggyback) Reservoir Shock... \$645 each Spring and spring seat bearing kit available separately

Compression Adjustment

## STREET/TRACK ALUMINUM BOLT-IN

## STREET/TRACK ALUMINUM BOLT-IN SHOCKS

Strange aluminum bolt-in shocks were developed with the help of several Sportsman racers, street / track competitors, and muscle car enthusiasts. This collaboration lead to the creation of a shock that is very responsive, consistent, and can be easily tailored to various conditions. The Strange shock body and eyelets are fully machined from high-grade aluminum, carefully assembled, and fully inspected. In-house dynamometer testing enables us to completely analyze shocks at all shaft speeds. This allows us to continue our valve development and stay ahead of the performance shock industry. Although Strange shocks offer a wide range of adjustment, re-valving is available to suit your specific requirements.

- Lightweight Aluminum Bolt-In Shocks
- Easily Accessible External Adjustment
- Extension Tuning Knob Single & Double Adjustable
- Compression Tuning Knob Double Adjustable
- Billet Steel Cross Bars & Polyurethane Bushings
- Wide Range of Adjustments are Ideal for Street & Track

## STRANGE ALUMINUM BOLT-IN SINGLE ADJUSTABLE

Shocks give the customer ability to control the dampening effect of the shocks extension resistance. Whether you are adjusting the ride of your street machine, handling of a Pro Touring, or tuning a drag race vehicle, Strange shocks are a valuable tool to alter the response of your suspension to various conditions you may encounter. Shock extension (rebound) is easily adjusted by turning a conveniently located external knob. The external knob offers 10precise settings and allows for a wide range of adjustment.

#### STRANGE ALUMINUM BOLT-IN DOUBLE ADJUSTABLE:

Shocks are offered to those seeking the ultimate in suspension tuning. The double adjustable shock offers all the benefits of the single adjustable shock, but also incorporates an additional knob for accurately adjusting compression (bump). The ability to independently adjust both extension and compression allows the chassis tuner complete dampening control of the vehicles suspension.

#### **BOLT-IN ALUMINUM SHOCK APPLICATIONS**

Single Adjustable.... \$160 each

**Unless Stated Otherwise** 

Double Adjustable... \$260 each

		Fr	ont	Rear		
BUICK		Single	Double	Single	Double	
Apollo	1973-75	S5263*	S5063*	S5264	S5064	
Century	1973-81	S5263*	S5063*	S5264	S5064	
Regal	1973-87	S5263*	S5063*	S5264	S5064	
Regal / GN	1978-87			S5280LS	S5080LS	Coil-Over Shocks (1)
Skylark	1975-79	S5263*	S5063*	S5264	S5064	
CHEVROLET						
Bel Air	1971-75	S5267*	S5067*	S5264	S5064	
Biscayne	1971-72	S5267*	S5067*	S5264	S5064	
Camaro	1967	S5263*	S5063*	S5276	S5076	Mono leaf (non-staggered)
	1967-69	S5263*	S5063*	S5266	S5066	Mono leaf
	1968-69	S5263*	S5063*	S5262	S5062	Multi leaf
	1970-81	S5267*	S5067*	S5268	S5068	
	1982-92			S5270	S5070	
	1982-02			S5284	S5084	(1)
	1993-02	S5269**		S5270	S5070	
Drag Race Only	1993-02	S5271	S5071			Requires 2.5 x 14" spring
	2010-15		S2063		S5090	(1)
Caprice	1971-96	S5267*	S5067*	S5264	S5064	
Chevelle, Malibu	1964-67	S5267*	S5067*	S5264	S5064	
	1968-83	S5263*	S5063*	S5264	S5064	
Malibu	1978-83			S5280LS	S5080LS	Coil-Over Shocks (1)
Chevette	1976-87			S5262	S5062	
Chevy II, Nova	1962-67			S5270	S5070	
	1968-79	S5263*	S5063*	S5274		
El Camino	1968-88	S5263*	S5063*	S5264	S5064	
	1978-87			S5280LS	S5080LS	Coil-Over Shocks (1)
Impala	1955-57	S5267*	S5067*	S5272	S5072	
	1958-96	S5267*	S5067*	S5264	S5064	
Monte Carlo	1970-88	S5263*	S5063*	S5264	S5064	
	1978-88			S5280LS	S5080LS	Coil-Over Shocks (1)
Pick-up Truck	1983-93	S5263*	S5063*			2 WD only

\* Requires modification of stock lower control arm

\*\* Uses aftermarket spring or Strange spring SPC300A - \$75 each

(1) Rear coil-over shock with bracket (less spring) - Single 199 each / Double 322 each

**Applications Continue on Following Pages** 

## **BOLT-IN ALUMINUM APPLICATIONS**

Single Adjustable.... \$160 each

**Unless Stated Otherwise** 

Double Adjustable... \$260 each

Single Adjustable \$ 160 each		ach Un	Unless Stated Utherwise			Double Adjustable \$260 each		
		Fr	ont	R	ear			
DODGE		Single	Double	Single	Double			
Challenger	1970-74	S5281	S5081	S5282	S5082			
Drag Race Only	2008-10		S5085		S5086	Front / Rear - Drag Race only		
Charger, Coronet	1965-72	S5281	S5081	S5282	S5082			
	1973-76	S5283	S5083	S5282	S5082			
Dart, Swinger,	1962-76	S5281	S5081	S5262	S5062			
Demon	1962-76	S5281	S5081	S5262	S5062			
Pick-up Truck-4WD	1982-91	S5263*	S5063*			4 WD only		
FORD Alum.								
Crown Victoria	1983-91	S5263*	S5063*					
Galaxy 500, LTD	1971-82	S5263*	S5063*					
Ranchero	1972-79	S5263*	S5063*					
Mustang	1964-73		S5045		S5046			
	1979-04			S5248	S5048	(1)		
	1985-93			S5244	S5044			
	1994-04			S5250	S5050			
	2005-14			S5242	S5042			
Thunderbird	1959-60	S5263*	S5063*					
	1967-79	S5263*	S5063*	S5262	S5062			
Torino	1972-76	S5263*	S5063*	S5262	S5062			
FORD Steel								
Mustang	1979-86			S6000EM				
	1987-93	S6000EM#	S2041#	S6000EM		# 8 Cyl Only		
	1994-04	S6005LM	S2041	S5262				
	1994-04	S6001EM	S2041	S5262		Lowered		
	2005-10	S6009LM	S2043	S5262				
	2011-14	S6011LM	S2043					
	2015-18		S2045					
	1987-04	S6001				Coil-Over Sleeve Kit (2 required)		
GMC								
Caballero, Sprint	1971-88	S5263*	S5063*					
Jimmy, Sonoma	1983-93	S5263*	S5063*			2 WD only		
HONDA								
CRX	1989-91		S5015		S5016	(2)		
Civic	1989-01		S5015		S5016	(2)		

\* Requires modification of stock lower control arm

(1) Rear coil-over shock with bracket (less spring) - Single \$199 each / Double \$322 each

(2) 89-91 CRX & Civic knuckles must be replaced with 92-01 OEM Civic knuckles - \$294 each

Honda coil-over design requires 10" front & 12" rear springs - Available separately

## **BOLT-IN ALUMINUM APPLICATIONS**

Single Adjustable.... \$160 each

Unless Stated Otherwise

Double Adjustable... \$260 each

		Fi	ront	R	ear	
OLDSMOBILE		Single	Double	Single	Double	
Cutlass, 442	1964-67	S5267*	S5067*	S5264	S5064	
	1968-88	S5263*	S5063*	S5264	S5064	
	1981-88			S5280LS	S5080LS	Coil-Over Shocks (1)
Omega, 442	1973-79	S5263*	S5063*	S5264	S5064	
PLYMOUTH						
Barracuda	1964-74	S5281	S5081	S5282	S5082	
Belvedere, Satellite	1962-72	S5281	S5081	S5282	S5082	
	1973-74	S5283	S5083	S5282	S5082	
Duster, Valiant,	1960-76	S5281	S5081	S5282	S5082	
Scamp	1960-76	S5281	S5081	S5282	S5082	
Fury	1962-64	S5281	S5081	S5282	S5082	
	1965-78			S5282	S5082	
PONTIAC						
Bonneville	1971-81	S5267*	S5067*	S5264	S5064	
	1982-86	S5263*	S5063*	S5262	S5062	
	1982-86			S5280LS	S5080LS	Coil-Over Shocks (1)
Firebird, Trans Am	1967-69	S5263*	S5063*	S5266	S5066	Mono Leaf
	1968-69	S5263*	S5063*	S5262	S5062	Multi Leaf
	1970-81	S5267*	S5067*	S5268	S5068	
	1982-92		S2061***	S5270	S5070	
	1982-02			S5284	S5084	(1)
	1993-02	S5269**	S5069**	S5270	S5070	
Drag Race Only	1993-02	S5271	S5071			Requires 2.5 x 14" spring
Grand Prix	1969-87	S5263*	S5063*	S5264	S5064	
	1969-87			S5280LS	S5080LS	Coil-Over Shocks (1)
GTO	1964-67	S5267*	S5067*	S5264	S5064	
	1968-81	S5263*	S5063*	S5264	S5064	
Lemans, Tempest	1964-67	S5267*	S5067*	S5264	S5064	
	1968-81	S5263*	S5063*	S5264		
Phoenix	1977-79	S5263*	S5063*			
Ventura	1971-77	S5263*	S5063*	S5264	S5064	

\* Requires modification of stock lower control arm
 \*\* Uses aftermarket spring or Strange spring SPC300A - \$75 each
 \*\*\* Coil-Over Strut
 (1) Rear coil-over shock with bracket (less spring) - Single \$199 each / Double \$322 each

## **MUSTANG & CAMARO**

# MUSTANG SINGLE ADJUSTABLE STEEL BOLT-IN SHOCKS / STRUTS

- · 11 performance settings offer a wide range of adjustment
- · Easily accessible external knob controls extension (rebound)
- fits OEM applications
- Ideal for Street/Strip applications
- Steel construction
- · Accepts most coil-over kits

#### **79-93 MUSTANG** S6000EM

Strange externally adjustable	e Rear Shock	\$80 ea.
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87-93 MUSTANG S6001EM Strange externally adjustable Front Strut - V8 Only...... \$129 ea.

#### 94-04 MUSTANG S6004LM

Strange externally adjustable Rear Shock- Not for IRS Cobra...... \$80 ea.

#### 94-04 MUSTANG S6005LM

Strange externally adjustable Fro	ont Strut	\$129 ea.
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#### 05-14 MUSTANG S6008LM

#### 05-10 MUSTANG S6009LM

Strange externally adjustable Front Strut
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#### 11-14 MUSTANG S6011LM

Strange externally adjustable Front Strut...... \$149 ea.

#### COIL-OVER KIT FOR 79-04 MUSTANG STRUT S6001

Includes aluminum body, spring seat, jam nut & bearings
Services one strut\$74 ea.

Aftermarket caster / camber plates must be used with Strange Coil-Over kit Requires 14" spring - Sold serparately

See Spring Section for available 14" springs • Hyperco \$130/pair



## **MUSTANG & CAMARO**

#### **MUSTANG & CAMARO / FIREBIRD DOUBLE ADJUSTABLE COIL-OVER STRUTS**

- · Easily accessible and independently adjustable extension and compression settings
- · Lightweight construction with durable steel body
- · Robust 22mm rod and large 1.375" piston diameter
- Coil-over body is designed to fit 2.5" ID springs
- · Includes spring seat bearings for easy ride height adjustment
- · Custom valving available

## STRANGE BOLT-IN DOUBLE ADJUSTABLE COIL-OVER STRUTS

Competitive Drag Racing is won or lost by narrow margins making suspension tuning and consistency critical to winning races. Strange double adjustable coil-over struts easily permit independent control of both extension and compression, maximizing your car's performance. Besides reducing weight and allowing for adjustable ride height, the double adjustable Strange struts are a valuable tool to adapt to changing track conditions, control weight transfer, ET reduction, improve down track stability, and allow for consistent use.

#### 1987-93 (V8 ONLY) AND 94-04 MUSTANG\* s2041

Double adjustable steel coil-over strut - Drag Racing only	\$499 ea.
2005-14 MUSTANG** s2043	
Double adjustable steel coil-over strut - Drag Racing only	\$499 ea.

#### 1982-92 CAMARO/FIREBIRD s2061

Double adjustable steel coil-over strut - Drag Racing only......\$499 ea.

#### 2010-15 CAMARO \$2063

Double adjustable steel coil-over strut - Drag Racing only ......\$499 ea.

\* For 1994-2004 applications that have been lowered 1"

\*\* Body does not have sway bar mounts - Call before ordering if required

All struts above include spring seat bearings 14" springs are not included but are available separately



## STRANGE FORGED ALUMINUM

#### FORGED ALUMINUM STRUT PACKAGES

- · Forged aluminum body liquid penetrant inspected to ensure quality
- Lightened 17-4 stainless steel spindles
- Custom valving available
- · Large & fully ground strut shaft
- Stud mount or Eye mount
- Externally adjustable for extension
- Available in double externally adjustable for extension and compression
- · Packages offer three brake kit options
- Choice of Hyperco springs
- · Includes chrome-moly lower control arm kit Choice of 1/2" or 7/16" 4130 rod ends



construction is much simpler, suspension geometry is more easily established, and header clearance is improved over conventional A-frame suspension. Every Strange strut is externally adjustable for extension (rebound) for more convenient tuning. Strange double adjustable strut packages provide an additional external adjustment for compression (bump). Strange aluminum strut bodies are forged from 2000 series aluminum alloy to provide high strength at a minimal weight. Heat treated 17-4 stainless steel spindles provide an exceptionally strong wheel mounting surface. Fatigue resistant steel steering arms can be formed easily to obtain proper steering geometry. Brake mounting bosses are an integral part of the forged housing, providing simplicity for brake kit mounting on either side of the strut. Every Strange strut package features integral designed components ensuring proper fit, ease of assembly, maximum performance and an unsurpassed regard for safety. All Strange forged aluminum struts are for Drag Racing only.

**GT STRUT PACKAGE:** Designed with the cooperation of F.J. Smith Race Cars to create a package that met NHRA's SS/GT stringent criteria. This 6.5" stroke strut has been further utilized by innovative chassis builders seeking a competitive advantage in other classes. Custom Mustangs, Camaros, Imports, and other Drag Racing vehicles have enjoyed the benefits offered by this strut. The GT strut is an extremely versatile drag racing strut system. Custom configurations can include custom dimensions, custom valving and custom stroke. Also offered in double adjustable for external adjustment of compression and extension, the GT Strut becomes an unsurpassed suspension option. GT struts are supplied with choice of lower control arm end. A weld end with bearing, if a factory lower control is used, or our traditional end for construction of an A-Arm system. To complete A-Arm construction, either the S3420 or S3421 tubing and rod end kit would be required.

**LIGHTWEIGHT STRUT PACKAGE:** Designed for spindle mount wheels. The brake kit uses single piston calipers and 10" slotted steel rotors to fit within the tight clearances available. Due to the limited braking, they should only be used in vehicles weighing less than 2,600 lbs that deploy a parachute.

**MEDIUM DUTY STRUT PACKAGE:** Designed for a vehicle using 5 lug bolt-on wheels and weighs less than 2,600 lbs. The brake kit includes billet aluminum wheel hubs, bearings, races, seals, studs, caliper mounts, 2-piston calipers, soft metallic pads, and 11.25" rotors.

**HEAVY DUTY STRUT PACKAGE:** Fits 5 lug bolt-on wheels and used on race cars weighing more than 2,600 lbs. The brake kit features billet aluminum wheel hubs, bearings, races, seals, studs, caliper mounts, 4-piston calipers, soft metallic pads, and 11.25" rotors.

## STRANGE FORGED ALUMINUM

#### LIGHTWEIGHT ALUMINUM STRUT PACKAGES

#### STRANGE EYE MOUNT LIGHTWEIGHT STRUT PACKAGE PSS100

Includes single externally adjustable eye mount struts, lower control arm kit, Lightweight spindle mount brake kit, Hyperco springs and spring seat bearing kit ...... \$1,800

PSS100DBL PSS100 package with double externally adjustable struts ...... \$2,200

#### STRANGE STUD MOUNT LIGHTWEIGHT STRUT PACKAGE PSS105

Includes single externally adjustable stud mount struts, lower control arm kit, Lightweight spindle mount brake kit, Hyperco springs and spring seat bearing kit ...... \$1,800

PSS105DBL PSS105 package with double externally adjustable struts ...... \$2,200

#### STRANGE STUD MOUNT LIGHTWEIGHT GT STRUT PACKAGE PSS305

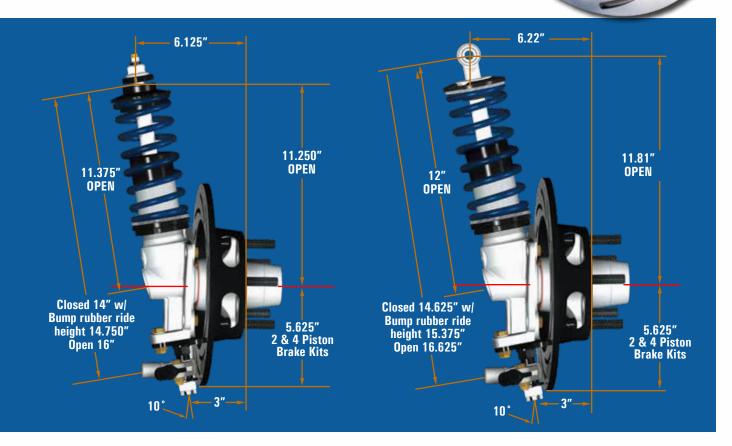
Includes GT single externally adjustable stud mount struts, lower control arm ends, and L/W spindle mount brake kit- 14" springs, LCA tubing, & rod ends are not included ...\$2,540

PSS305DBL PSS305 package with double externally adjustable struts ...... \$3,000

All above packages do not include wheel bearings, races, or seals Use spindle mount wheels designed specifically for Strange spindle dimensions

Single adjustable struts control extension forces only Double adjustable have individual adjusters to alter extension and compression

PSS105



## MEDIUM & HEAVY DUTY ALUMINUM STRUT PACKAGES



**PSS115** 

## EYE MOUNT MEDIUM DUTY STRUT PACKAGE PSS110

PSS110DBL PSS110 package with double externally adjustable struts .......\$2,300

## STUD MOUNT MEDIUM DUTY STRUT PACKAGE

PSS115DBL PSS115 package with double externally adjustable struts .......\$2,300

Single adjustable struts control extension forces only Double adjustable have individual adjusters to alter extension and compression

## **MEDIUM & HEAVY DUTY ALUMINUM STRUT PACKAGES**

## **HEAVY DUTY**

#### EYE MOUNT HEAVY DUTY STRUT PACKAGE PSS120

Includes single externally adjustable eye mount struts, lower control arm kit, Heavy Duty brake kit, Hyperco springs and spring seat bearing kit ...... \$1,950

PSS120DBL PSS120 package with double externally adjustable struts ........... \$2,350

**STUD MOUNT HEAVY DUTY STRUT PACKAGE** PSS125 Includes single externally adjustable stud mount struts, lower control arm kit,

STUD MOUNT HEAVY DUTY GT STRUT PACKAGE PSS325

Includes GT single externally adjustable stud mount struts, lower control arm ends, and Heavy Duty brake kit- 14" springs, LCA tubing, & rod ends are not included ....... \$2,685

PSS325DBL PSS325 package with double externally adjustable struts ...... \$3,160

Single adjustable struts control extension forces only Double adjustable have individual adjusters to alter extension and compression



**PSS125** 

PSS325DBL

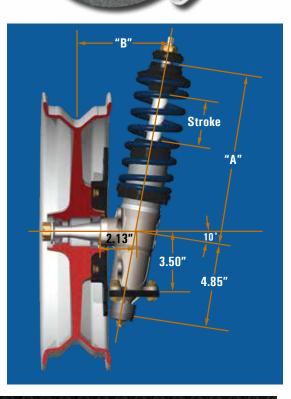
## **ULTRA & ALTERED ULTRA STRUT PACKAGES**

#### **ULTRA STRUT PACKAGES**

- · Based on Anglia style spindles
- · Includes wheel bearings, races, & seals
- Aluminum steering arms
- Lightweight Stainless steel bases
- NAS hardware
- Superior stability
- · Externally adjustable for extension
- Available in double externally adjustable for extension and compression
- Choice of Hyperco springs
- · Includes chrome-moly lower control arm kit Choice of 1/2" or 7/16" 4130 rod ends

#### STRANGE ULTRA STRUT PACKAGES: Designed to satisfy

the most demanding Pro and Sportsman racers. This package was meticulously developed to assure unsurpassed quality and durability. The innovative stainless steel base assembly allows for the construction of a lighter strut, while offering unmatched integral strength. The Strange externally adjustable cartridge features a piston located below spindle centerline. This provides a longer stroke, less stress, and increased stability. The provided NAS hardware ensures vital components remain secure. The design of the aluminum steering arm permits an ideal trapezoid linkage to create the proper Ackerman steering geometry. The asymmetry in the geometry improves handling as the wheels are steered left or right The Ultra Strut features a wide range of adjustment to meet the requirements of the vast majority of vehicles. If required, it can be re-valved to a different range of adjustment to suit your needs. The double adjustable version of the Strange Ultra strut was first developed with the assistance of Warren and Kurt Johnson. The versatility of the double adjustable strut permits the ultimate in fine tuning of the front suspension. Hyperco springs, included with every Ultra Strut package, offer the advantage of lighter spring rates without the risk of coil bind.

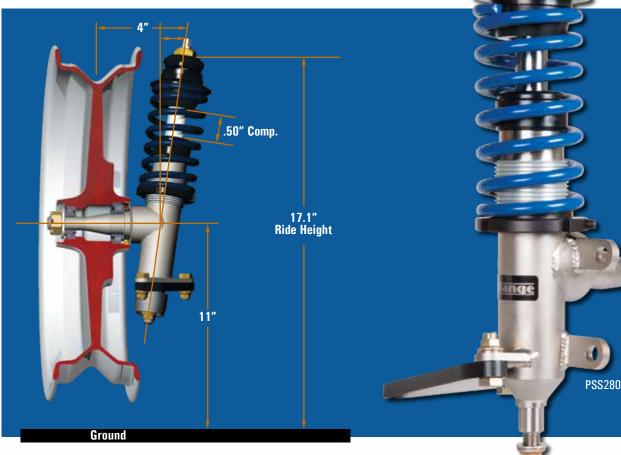


PSS210

			A			B		
Stroke	Spring Length	Extended	At Ride Height	Compressed	Extended	At Ride Height	Compressed	
2.50″	7″	9.40″	7.90″	6.90″	5.17″	4.91″	4.73″	
3.63″	8″	11.38″	9.20″	7.77″	5.51″	5.13″	4.89″	

## **ULTRA & ALTERED ULTRA STRUT PACKAGES**

**STRANGE ALTERED ULTRA STRUT:** Compact strut specifically designed for altered and dragster applications. The Altered Ultra is ideal for assisting weight transfer and adapting to less than perfect track conditions. Brake tabs are installed to accept Strange Lightweight spindle mount brake kits. Brake kits are available separately.



#### STRANGE SINGLE ADJUSTABLE ALTERED ULTRA STRUT PACKAGE PSS280

Includes single adjustable stud mount Altered Ultra struts, lower control arm kit, springs and spring seat bearing kit ... \$1,785

#### **REPLACEMENT SPRINGS**

SP50130 for Dragster 130 lbs - pair \$120 SP50170 for Dragster 170 lbs - pair \$120

#### STRANGE SINGLE ADJUSTABLE ULTRA STRUT PACKAGE WITH STEEL BRAKES PSS200

Includes single adjustable stud mount Ultra struts, lower control arm kit, L/W steel spindle mount brake kit, Hyperco springs and spring seat bearing kit ..... \$2,790

#### STRANGE DOUBLE ADJUSTABLE ULTRA STRUT PACKAGE WITH STEEL BRAKES PSS205

Includes double adjustable stud mount Ultra struts, lower control arm kit, L/W steel spindle mount brake kit, Hyperco springs, and spring seat bearing kit ... \$3,675

#### STRANGE SINGLE ADJUSTABLE ULTRA STRUT PACKAGE WITH CARBON BRAKES PSS210

Includes single adjustable stud mount Ultra struts, lower control arm kit, Carbon spindle mount brake kit, Hyperco springs and spring seat bearing kit ....... \$4,650

#### STRANGE DOUBLE ADJUSTABLE ULTRA STRUT PACKAGE WITH CARBON BRAKES PSS215

Includes double adjustable stud mount Ultra struts, lower control arm kit, Carbon spindle mount brake kit, Hyperco springs and spring seat bearing kit ...... \$5,535

Single adjustable struts control extension forces only / Double adjustable have individual adjusters to alter extension and compression

All struts listed above fit spindle mount wheels designed specifically for Anglia spindle dimensions

## **HYPERCOIL & KNIGHT SPRINGS**

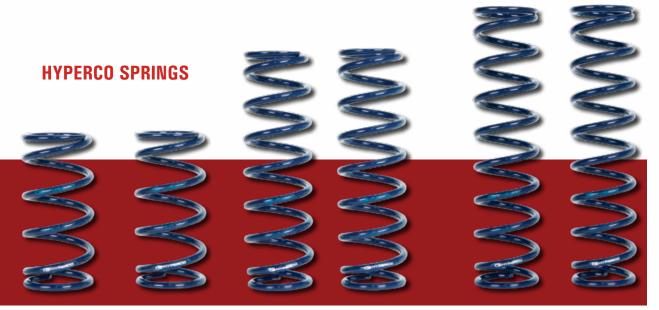


**HYPERCO SPRINGS:** Cold wound from preheat treated SAE 9254 chrome silicon wire. Optimum wire diameter is selected for the individual design without compromise. After coiling, the closed ends are ground, and the spring is thermally stress relieved, preset and shot-peened. Completed springs are magnafluxed, inspected, deep blue epoxy powder coated and checked for dimensions, trueness and rate. Hyperco then tests each coil for actual rate and etches the rate permanently into the spring. Hyperco strict manufacturing tolerances assure the racer of springs within a tolerance range of +/- 2%- most being within 1%!

Part Num		Spring Rate	Length	Length At Coil Bind	Deflection	Weight Per Spring	Part Number	Spring Rate	Length	Length At Coil Bind	Deflection	Weight Per Spring
SP7	0175	175	7″	1.803″	5.197″	1.25 lbs	SP12162	162	12″	3.494″	8.506″	2.95 lbs
SP7	0200	200	7″	1.938″	5.062″	1.45 lbs	SP12175	175	12″	3.523″	8.477″	3.00 lbs
SP7	0250	250	7″	2.166″	4.834″	1.55 lbs	SP12185	185	12″	3.597″	8.403″	3.10 lbs
SP7	0300	300	7″	2.405″	4.595″	1.80 lbs	SP12200	200	12″	3.687″	8.313″	3.80 lbs
SP7	0500	500	7″	2.765″	4.235″	2.35 lbs	SP12225	225	12″	3.867″	8.133″	3.60 lbs
SP8	0200	200	8″	2.269″	5.731″	1.70 lbs	SP12375	375	12″	4.634″	7.366″	5.05 lbs
SP8	0225	225	8″	2.353″	5.647″	1.85 lbs	SP12400	400	12″	4.670″	7.330″	5.10 lbs
SP8	0250	250	8″	2.452″	5.548″	2.10 lbs	SP12425	425	12″	4.956″	7.044″	5.85 lbs
SP8	0275	275	8″	2.622″	5.378″	2.30 lbs	SP12450	450	12″	4.857″	7.143″	5.85 lbs
SP8	0300	300	8″	2.563″	5.437″	2.35 lbs	SP12550	550	12″	5.026″	6.974″	6.60 lbs
SP8	0325	325	8″	2.652″	5.348″	2.40 lbs	SP12600	600	12″	5.376″	6.624″	6.70 lbs
SP8	0350	350	8″	2.733″	5.267″	2.55 lbs	SP12650	650	12″	5.710″	6.290″	6.80 lbs
SP8	0375	375	8″	2.853″	5.147″	2.60 lbs	SP14085	85	14″	3.718″	10.282″	2.65 lbs
SP8	0400	400	8″	2.910″	5.090″	2.80 lbs	SP14100	100	14″	3.457″	10.543″	2.60 lbs
SP8	0550	550	8″	3.364″	4.636″	3.10 lbs	SP14110	110	14″	3.705″	10.295″	2.70 lbs
SP1	0125	125	10″	2.498″	7.502″	1.75 lbs	SP14125	125	14″	3.736″	10.264″	3.10 lbs
SP1	0225	225	10″	3.125″	6.875″	2.65 lbs	SP14138	138	14″	4.012″	9.988″	3.25 lbs
SP1	0250	250	10″	3.214″	6.786″	3.00 lbs	SP14150	150	14″	4.230″	9.770″	3.55 lbs
SP1	0300	300	10″	3.409″	6.591″	3.35 lbs	SP14160	160	14″	4.053″	9.947″	3.90 lbs
SP1	0325	325	10″	3.496″	6.504″	3.45 lbs	SP14175	175	14″	4.324″	9.676″	3.80 lbs
SP1	0350	350	10″	3.603″	6.397″	3.45 lbs	SP14185	185	14″	4.484″	9.516″	4.20 lbs
SP1	0375	375	10″	3.731″	6.269″	3.90 lbs	SP14200	200	14″	4.607″	9.393″	4.35 lbs
SP1	0400	400	10″	3.709″	6.291″	3.75 lbs	SP14225	225	14″	4.777″	9.223″	4.90 lbs
SP1	0425	425	10″	3.781″	6.219″	3.90 lbs	SP14250	250	14″	4.857″	9.143″	4.95 lbs
SP1	0550	550	10″	4.131″	5.869″	4.95 lbs	SP14275	275	14″	5.049″	8.951″	5.30 lbs
SP1	2085	85	12″	2.764″	9.236″	1.95 lbs	SP14300	300	14″	5.243″	8.757″	5.80 lbs
SP1	2095	95	12″	2.803″	9.197″	2.00 lbs	SP14325	325	14″	5.372″	8.628″	5.95 lbs
SP1	2110	110	12″	2.954″	9.046″	2.25 lbs	SP14350	350	14″	5.205″	8.795″	7.00 lbs
SP1	2125	125	12″	3.160″	8.840″	2.35 lbs	SP16125	125	16″	3.819″	12.181″	4.80 lbs
SP1	2150	150	12″	3.392″	8.608″	2.80 lbs						

Part numbers shown above are for pair of Hyperco springs

## **HYPERCOIL & KNIGHT SPRINGS**



7", 8",10",12" & 14" Hyperco Springs \$130 Pair

16" Hyperco Springs \$140 Pair

Part Number	Spring Rate	Length
SPK1295	95	12″
SPK12110	110	12″
SPK12130	130	12″
SPK12150	150	12″
SPK12175	175	12″
SPK12200	200	12″
SPK14150	150	14″

Part numbers shown above are for pair of Knight springs

## DRIVESHAFTS & YOKES

- All Shafts Feature Seamless Heat Treated Chrome-moly Tubing
  - 3" or 3 1/2" OD Tubing
  - Strange Forged Chrome-moly or Spicer HD Weld Ends
  - Solid (non-crossdrilled) Spicer 1350 or 1480 U-Joints
    - Total Run-Out Less Than .008"
      - Electronically Balanced

#### STRANGE TUBULAR DRIVESHAFTS: Constructed

from seamless heat treated chrome-moly tubing. The .083" wall thickness tubing is offered in both 3" OD and 3 1/2" OD to suit various applications. Custom designed fixtures ensure the 1350 or 1480 series weld-ends are properly phased to eliminate driveline vibrations. The U1699 driveshaft is MIG welded and utilizes Spicer HD 1350 series weld ends and solid (non-crossdrilled) u-joints. All other shafts are TIG welded and feature Strange HD forged chrome-moly weld ends and Spicer HD solid u-joints. Every shaft is electronically balanced with a total run-out of less than .008". Strange offers a complete line of transmission yokes, rear end yokes, and u-bolt kits to complete your custom driveshaft.

**3" OR 3 1/2" DRIVESHAFT**: Determined by driveshaft length and peak RPM. Critical speed is the point in which the driveshaft will begin to distort, vibrate, and eventually fail. Once measurements have been taken, consult a Strange Sales Associate to discuss the proper driveshaft diameter to order.

**MEASUREMENTS:** Should be taken on level ground, full weight on all four tires, vehicle at ride height, and pinion angle set. If the rear yoke is smaller than a 1350 series, it may be the time to replace it before proceeding. The driveline is only as strong as the weakest link and a new yoke will change your measurement.

## DRIVESHAFT INCLUDING TRANSMISSION

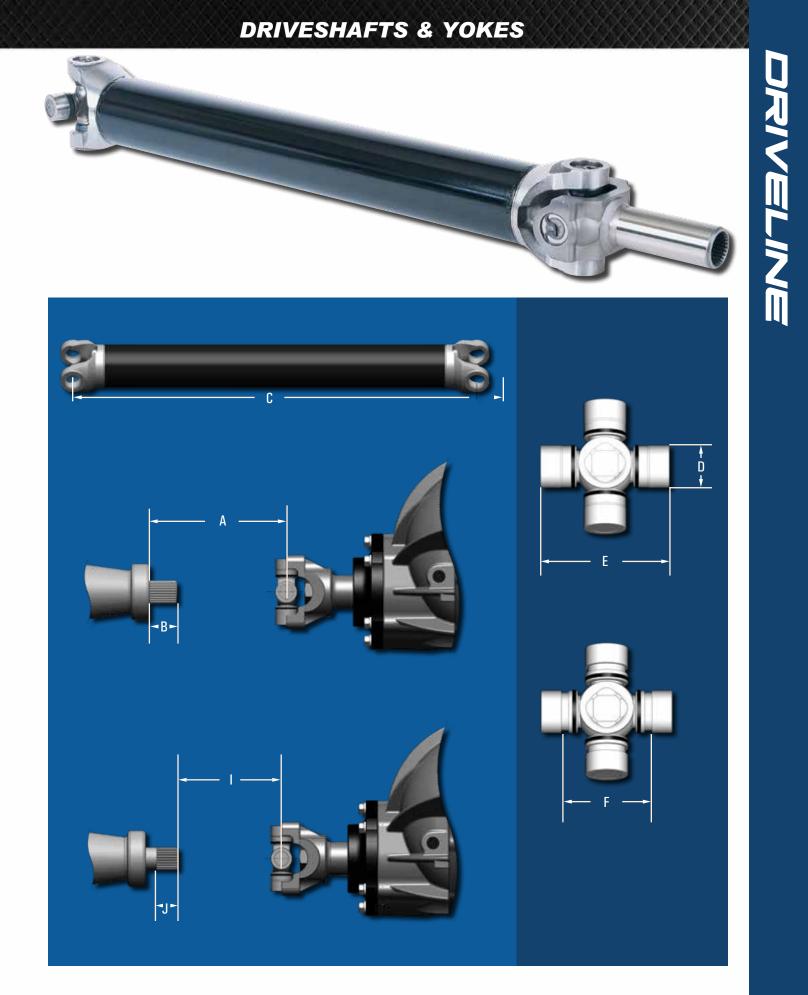
**YOKE:** If you have a 1350 series yoke on the rear, only the "A" and "B" measurements are required. If you do not, also supply the "D" and "E" of the rear u-joint.\* (See diagram on next page)

#### **DRIVESHAFT ONLY - NO TRANSMISSION YOKE:**

Push the transmission yoke all the way in until it bottoms, pull it out 7/8" and measure center to center. This is the "C" dimension. If you are not using all 1350 series yokes, supply the "D" and "E" from any that are not and note which end they belong.\* Your transmission yoke will need to be sent-in to properly balance the driveshaft. (See diagram on next page)

\* This situation will require use of a conversion u-joint. These are crossdrilled which will reduce overall driveline strength.





#### DRIVESHAFTS

U1699	3" seamless chrome-moly driveshaft / Spicer HD 1350 weld ends / Spicer HD 1350 non-crossdrilled u-joints	. \$265
U1702*	3" seamless chrome-moly driveshaft / Strange HD chrome-moly 1350 weld ends / Spicer HD 1350 non-crossdrilled u-joints	\$349
U1704*	3 1/2" seamless chrome-moly driveshaft / Strange chrome-moly 1350 weld ends / Spicer HD 1350 non-crossdrilled u-joints	\$449
U1706*	3 1/2" seamless chrome-moly driveshaft / Strange chrome-moly 1480 weld ends / Spicer HD 1480 non-crossdrilled u-joints	\$579

\* Available with SFI certification sticker for an additional \$18

## **DRIVESHAFT COMPONENTS**

	U1670	Spicer HD 1350 series weld yoke for 3" .083" wall tubing	\$25
	U1672	Strange forged chrome-moly 1350 series weld yoke for 3" .083" wall tubing	
	U1673	Strange forged chrome-moly 1350 series weld yoke for 3 1/2" .083" wall tubing	
	U1674	Strange forged chrome-moly 1480 series weld yoke for 3 1/2" .083" wall tubing	\$153
	U1675	Spicer 1330 series weld yoke for 3" .083" wall tubing	
	U1676	Spicer 1310 series weld yoke for 3" .083" wall tubing	
	U1700T	3" x .083" wall seamless chrome-moly tubing- 5 ft piece	
	U1703T	3 1/2" x .083" wall seamless chrome-moly tubing- 5 ft piece	
	U1641	Spicer 1350 series u-joint- non-crossdrilled- D = 1.187" / E = 3.625"	
	U1639	Spicer 1480 series u-joint- non-crossdrilled- D = 1.375" / E = 4.188"	
	U1642	1330 series crossdrilled u-joint- D = 1.062" / E = 3.625"	
	U1643	1310 series crossdrilled u-joint- D=1.062" / E=3.218"	
	U1645		\$32
	U1646	1310 to 1350 crossdrilled conversion u-joint	\$32
١	U1647	1330- D=1.062" / E=3.625" to 1350 crossdrilled conversion u-joint	\$32
	U1648	1330- D=1.125" / E=3.625" to 1350 crossdrilled conversion u-joint	\$32
	U1610	U-bolts for 1350 series yoke- pair	\$12
ł	U1610HD	Billet cap kit for Strange 1350 series yokes- pair	\$85
ļ	U1611	U-bolts for 1480 series yoke- pair	\$25
	U1611HD	Billet cap kit for Strange 1480 series yokes- pair	\$100
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# U1670



#### **TRANSMISSION YOKES**

U1658	Ford C4, T5, Tremec 3550, & AOD 28 spline / 1350 series / Strange HD / G=5.81" / H=1.498"\$80
U1668	Ford C4, T5, Tremec 3550, & AOD 28 spline / 1350 series / Strange chrome-moly / G=5.81″ / H=1.498″\$179
U1659	Ford C6, T45, Top Loader, & FMX 31 spline / 1350 series / Strange HD / G=6.06″ / H=1.684″\$80
U1669	Ford C6, T45, Top Loader, & FMX 31 spline / 1350 series / Strange chrome-moly / G=6.06" / H=1.684"\$179
U1661	GM Powerglide, TH350, T56, 4L60, 4L60E, Muncie, & 1st design Super T-10 27 spline / 1310 series / Spicer / G=5.50″ / H=1.500″\$57
U1662	GM Powerglide, TH350, T56, 4L60, 4L60E, Muncie, & 1st design Super T-10 27 spline / 1350 series / Strange HD / G=5.50" / H=1.503"\$80



## DRIVESHAFTS & YOKES

## **TRANSMISSION YOKES**

	U1667	GM Powerglide, TH350, T56, 4L60, 4L60E, Muncie, & 1st design Super T-10 27 spline / 1350 series / Strange chrome-moly / G = 5.50" / H = 1.503"\$179
	U1667N	U1667 modified to use with roller bearing extension housing 27 spline / 1350 series / Strange chrome-moly / G=5.50" / H=1.499"
	U1677	Same specifications as U1667 - Features removable chrome-moly caps
	U1677N	U1677 modified to use with roller bearing extension housing 27 spline / 1350 series / Strange chrome-moly / G= $5.50^{\circ}$ / H= $1.499^{\circ}$ \$204
	U1650	GM TH400, 4L80E, & 2nd design Super T-10 32 spline / 1350 series / Spicer HD / G=5.50" / H=1.885" \$80
	U1664	GM TH400, 4L80E, & 2nd design Super T-10 32 spline / 1350 series / Strange chrome-moly / G=5.50" / H=1.885" \$179
	U1664N	U1664 modified to use with roller bearing extension housing 32 spline / 1350 series / Strange chrome-moly / G=5.50" / H=1.888" \$196
	U1684TH	GM TH400 for roller bearing extension housing only 32 spline / 1480 series / Strange chrome-moly / G=5.50" / H=1.888" \$295
	U1684	G-Force & Liberty 32 spline / 1480 series / Strange chrome-moly / G=5.50" / H=1.888"\$295
	U1651	Lenco 16 spline / 1350 series / Spicer HD / G=4.63″ / H=1.812″ \$105
1	U1665	Lenco 16 spline / 1350 series / Strange chrome-moly / G=4.00" / H=1.900" \$198
8	U1663	Lenco 32 spline / 1350 series / Strange chrome-moly / G=4.00" / H=1.812" \$182
	U1683	Lenco 32 spline / 1480 series / Strange chrome-moly / G=4.00" / H=1.802"\$295
	U1655	Mopar, Doug Nash, & Liberty 30 spline / 1350 series / Strange HD / G=6.062" / H=1.680" \$80
	U1666	Mopar, Doug Nash, & Liberty 30 spline / 1350 series / Strange chrome-moly / G=6.06" / H=1.6795" \$179
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U1664

U1663

U1650

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## **REAR END YOKES**

## DANA 60 / MOPAR 8 3/4"

Dana 60 / 29 spline / 1350 series Strange chrome-moly / G=3.500" / H=1.875"	\$142
Dana 60 / 29 spline / 1350 series Strange HD / G=3.00″ / H=1.875″	\$90
Mopar 8 3/4"   742 case   10 spline   1350 series Strange HD   G=3.375"   H=1.875"	\$90
Mopar 8 3/4"   489 case   29 spline   1350 series Strange HD   G=3.375"   H=1.875"	\$90
	Strange chrome-moly / G = 3.500" / H = 1.875" Dana 60 / 29 spline / 1350 series Strange HD / G = 3.00" / H = 1.875" Mopar 8 3/4" / 742 case / 10 spline / 1350 series Strange HD / G = 3.375" / H = 1.875" Mopar 8 3/4" / 489 case / 29 spline / 1350 series

#### FORD 9" / FORD 8.8"

U1603	Ford 9" / 28 spline / 1350 series Strange chrome-moly / 2.80 lbs / G=4.063" / H=1.812"\$125
U1603P	U1603 polished and chrome plated\$195
U1603B	Ford 9" / 28 spline / 1350 series Strange billet chrome-moly / 2.50 lbs / G=4.063" / H=1.812"\$280
U1604	Ford 9" / 35 spline / 1350 series Strange chrome-moly / 2.86 lbs / G=4.063" / H=2.125"\$125
U1604P	U1604 polished and chrome plated\$195
U1604B	Ford 9" / 35 spline / 1350 series Strange billet chrome-moly / 2.60 lbs / G=4.063" / H=2.125" \$280
U1633	Ford 9" / 28 spline / 1350 series Strange aluminum / 1.00 lbs / G=3.875" / H=1.804"\$250
U1634	Ford 9" / 35 spline / 1350 series Strange aluminum / 1.00 lbs / G=3.875" / H=2.113"\$250
U2203	Ford 9" / 28 spline / 1350 series / with dust shield Strange HD / G = 4.060" / H = 1.812" \$90
U2203HDA	Ford 9"   28 spline   1350 series   with dust shield   for HD Pro support Strange HD   G=4.060"   H=1.812" \$90
U2304	Ford 9" / 35 spline / 1480 series Strange billet / 2.86 lbs / G=4.062" / H=2.125" \$280
U1596	Ford 8.8" / 30 spline / 1350 series Strange chrome-moly / G=3.150" / H=1.812" \$142
U1630	Ford 8.8" / 30 spline / 1350 series Strange HD / G=3.150" / H=1.812" \$90







## **REAR END YOKES**

#### GM 12 BOLT / 10 BOLT / OLDS

U1601	Chevy 12 bolt / 30 spline / 1350 series Strange chrome-moly / G = 3.150" / H = 1.750" $$142$
U1602	Chevy 12 bolt / 30 spline / 1350 series Strange HD / G = 2.688" / H = 1.750"\$90
U1594	Chevy 8.5 10 bolt / 30 spline / 1350 series Strange chrome-moly / G=3.375" / H=1.940"\$142
U1605	Chevy 8.5 10 bolt / 30 spline / 1350 series Strange HD / G=3.375″ / H=1.940″\$90
U1606	57-64 Oldsmobile / 13 spline / 1350 series Strange chrome-moly / G = 3.156" / H = 1.937"\$141

## SENSOR COLLARS / U-BOLTS / CAP KITS

	U1613	One magnet pick-up collar for U1603 / U1633	\$48
	U1613-2	Two magnet pick-up collar for U1603 / U1633	\$52
	U1613-4	Four magnet pick-up collar for U1603 / U1633	\$60
	U1613-8	Eight magnet pick-up collar for U1603 / U1633	\$129
	U1614	One magnet pick-up collar for U1604 / U1634 / U2304	\$48
2	U1614-2	Two magnet pick-up collar for U1604 / U1634 / U2304	\$52
	U1614-4	Four magnet pick-up collar for U1604 / U1634 / U2304	\$60
	U1614-8	Eight magnet pick-up collar for U1604 / U1634 / U2304	\$129
	U1617 *	One magnet pick-up collar for U1594, U1596, U1598, U1601, & U1606	\$48
Ì	U1617-2 *	Two magnet pick-up collar for U1594, U1596, U1598, U1601, & U1606	\$52
	U1617-4 *	Four magnet pick-up collar for U1594, U1596, U1598, U1601, & U1606	\$60
9 9	U1617-8 *	Eight magnet pick-up collar for U1594, U1596, U1598, U1601, & U1606	\$129
k	U1610	U-bolts for 1350 rear end yokes- pair	\$12
ŝ	U1610HD	Billet chrome-moly cap kit for 1350 yokes- Strange yokes only- pair	\$85
8	U1611	U-bolts for 1480 rear end yokes- pair	\$25
	U1611HD	Billet chrome-moly cap kit for 1480 yokes- Strange yokes only- pair	\$100
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\* Applications shown are for yokes produced after 1/1/15 - Call for more information



#### 9" / 9 1/2" DROP-OUT LIVE AXLE

- Ultra Case Accepts Typical 9" & 9 1/2" Gear Sets
- 11" Carbon or Steel Brakes
- 32 1/2" Wheel to Wheel Width
- · One Piece Housing Eliminates Bolt-on End Bells
- 2" OD One Piece Axle Utilized to Stiffen Assembly
- · Choice of Mounting Plates
- Distance Between Plates Available From 14 3/8" to 17
- Lightweight Complete Assemblies Begin @ 145 lbs
- Oil capacity: Approximately 3 guarts

The 9" / 9 1/2" Drop-Out Live Axle is designed for certified chassis 6.00 seconds (1/4 mile) and slower. The drop-out live axle is an extremely lightweight and rigid rear end. The rear end features our one piece aluminum housing, Ultra Center Section, thru-hardened live axle, and 11" carbon or steel brakes. The one piece axle is used to assist in reducing rear end distortion and aid in eliminating ring gear deflection. In addition, the live axle provides the safety of a floater rear end at less weight. The assembly includes a 9" pro gear set, with an option to upgrade to a 9 1/2".

**L6000:** Strange Drop-out Live Axle assembly with 11" carbon brake kit includes PRF230 Ultra Center Section with 9" pro gear & choice of mounts.....\$6,825

OPRF23	Upgrade to 9 1/2" gear set	\$140
OPRF31	Pinion support with built-in coupler cover	\$75
OPRF50	Discount to equip with steel brakes	\$1,475
L6020	Tool kit to service Drop-out Live Axle	\$385

Additional options available for PRF230 - See 9" Ultra Center Section page

#### 9" / 9 1/2" TOP LOAD LIVE AXLE

- Accepts Typical 9" & 9 1/2" Gear Sets
- 11 1/2" Carbon or Steel Brakes
- 32 1/2" Wheel to Wheel Width
- · Eliminates Front or Rear Access Opening that Allows Deflection
- 2" OD One Piece Axle Utilized to Stiffen Assembly
- Top Cover for Easy Access & Inspection
- Distance Between Mounting Plates 14 3/8"
- Lightweight Complete Assemblies Begin @ 145 lbs
- · Oil capacity: Approximately 4 quarts

The 9" / 9 1/2" Top Load Live Axle was originally created over three decades ago for the demands of Top Fuel and Funny Cars. Today's unit has been refined for alcohol racers demanding the least amount of rear end maintenance. This model features a newly designed heavy duty aluminum center piece, accepts 9" or 9 1/2" gear sets, a redesigned aluminum spool, and supplied with 11 1/2" carbon or steel brakes. Aluminum semi finished mounting plates are available at an additional cost.



L4101:	Strange 9" / 9 1/2" Top Load Live Axle assembly with 11.5"
	carbon brake kit includes 9" pro gear - Mounting plates are
	not included\$8,540

OPRF23	Upgrade to 9 1/2" gear set\$140
OPRF31	Pinion support with built-in coupler cover
OPRF51	Discount to equip with steel brakes\$2,505
E1500M	Semi finished mounting plate- each\$100
L4020	Tool kit to service 9" / 9 1/2" Top Load Live Axle\$500

#### **10 1/2" LIVE AXLE**

- 10 1/2" Ring Gear Available in 2.91 & 4.11 Ratios
- 11 1/2" Carbon or Steel Brakes
- 32 1/2" Wheel to Wheel Width
- Eliminates Front or Rear Access Opening that Allows Deflection
- 2 3/4" OD One Piece Axle Utilized to Stiffen Assembly
- Top Cover for Easy Access & Inspection
- L7000 200 lbs without oil L7002 214 lbs without oil
- · Oil capacity: 6-7 quarts

The 10 1/2" Live Axle rear end is designed to withstand loads that can destroy many drag racing rear ends. The Strange Live axle provides superior resistance to bending loads in comparison to full floater axle assemblies. Axles in a floater assembly do not contribute to the rigidity of the rear end and place the entire load on the housing. The massive 2 3/4" OD axle shaft offers additional support against bending loads imposed on the housing. The top loading design eliminates a front or rear access opening that can allow deflection and reduced gear life. It also provides convenient complete inspection of the internal components.

L7000: Strange 10 1/2" Top Load Live Axle assembly with 11.5" carbon brake kit includes choice of 10 1/2" pro gear-Mounting plates are not included ......\$11,350

- L7002: Strange 10 1/2" Top Load Live Axle assembly with 11.5" steel brake kit includes choice of 10 1/2" pro gear-Mounting plates are not included .....\$9,350
- L7000MP Semi finished mounting plate for 10 1/2" or 12 1/4" Live Axle- each......\$130
- L7020 Tool kit to service 10 1/2" Live axle ......\$250

#### 12 1/4" LIVE AXLE

- 12 1/4" Ring Gear 3.20 Ratio
- 11 1/2" Carbon Brakes
- 32 1/2" Wheel to Wheel Width
- · Eliminates Front or Rear Access Opening that Allows Deflection
- 2 3/4" OD One Piece Titanium Axle Utilized to Stiffen Assembly
- Top Cover for Easy Access & Inspection
- 198 lbs with oil
- · Oil capacity: 5 quarts

The 12 1/4" Live Axle rear end is the finest rear end available for Top Fuel and Funny Car. The main housing is unique in both design and material. The top load design coupled with a one piece axle, provides an excellent structural base that maximizes gear life and significantly reduces rear end distortion. The unit features magnesium tubes, magnesium cover, titanium axle, steel spool, 11 1/2" carbon brake kit and internal oil pump.



L/4UU: Strange 12 1/4" Top Load Live Axle assembly with 11.5" carbon brake kit includes 3.20 pro gear - Mounting plates are not included ......\$18,850

- L7000MP Semi finished mounting plate for 10 1/2" or 12 1/4" Live Axle- each .......\$130
- L7420 Tool kit to service 12 1/4" Live axle ......\$250

#### AXLES A1007\*\*\* A1008\* A1008C\* A1008SC\* A1008R\* A1008SRC\* A1008SRC\* A1009A\*\*

A1007***	Remove axle bearings- pair\$20
A1008*	Install axle bearings- pair\$15
A1008C*	Install c-clip eliminator kit- pair \$15
A1008SC*	Install studs and c-clip eliminator kit- pair\$15
A1008R*	Install retainer plates and axle bearings- pair \$15
A1008SRC*	Install studs, reluctor rings, and c-clip eliminator kit- pair \$30
A1009A**	Turn down brake register ("A") on customer's axle- pair\$35
A1009B**	Move back bearing shoulder ("B") on customer's axle- pair\$35
A1009F**	Turn down axle flange OD ("D") on customer's axle- pair \$35
A10090**	Bore access hole in flange on customer's axle- pair\$30
A1065**	Drill and tap customer's Strange axles- pair

- \* Labor only Parts extra
- \*\* Axles must be sent-in bare without bearings or studs
- \*\*\* Bearings and seals will be damaged and not be reusable On axles sent with c-clip eliminator kits, halves may get damaged Strange will not be responsible for any parts damaged during removal Axles that have been tack welded are not serviceable

#### HOUSING

H1130	Narrow housing using existing housing ends\$125
H1125	Modify housing ends for c-clip eliminator kit
H1127	Check housing alignment \$50
H1123*	Install Strange billet aluminum main caps
	Chevy 10 or 12 bolt, Dana 60, or Ford 8.8\$90
H1128	Install back brace on customers 9" housing- Brace included \$185
H1129*	Install Fill & Drain plug on customers 9" housing\$40
H1130DF*	Install Strange Drag race floater spindles \$200
H1130SF*	Install Strange Pro Touring floater spindles \$150
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\* Labor only - Parts extra

#### **GEARS**

D3590	Set-up new gear set in new Ford 9" & 12-bolt drop-out\$175
R5292	Set-up new gear set in new Chevy 12 bolt or Dana 60 \$300
D3592	Gear change in Ford 9". Labor only- Parts extra\$195
D3594*	Gear change in Dana 60, Ford 8.8, Chevy 10 & 12 bolt\$325
L7092*	Gear change in Strange Top-loader 9", 9.5", 10.50", & 12" \$450
D3596	Lighten new ring gear at time of purchase\$75
D3597	Lighten customer's ring gear\$100
D3598G	MicroBlue ring and pinion set\$240

\* Labor only - Parts extra

#### BRAKES

B1260RB*	Rebuild Strange single piston caliper- each\$25
B2560RB*	Rebuild Strange two piston caliper- each\$25
B5000RB*	Rebuild '95 to present Strange four piston caliper- each \$40
B2799	Resurface Strange steel rotor- each\$25
B2800	Bake impurities out of carbon pads & rotors- set\$80
	Send carbon material only - Remove rotors from aluminum hats







## SHOCKS

	S5200NV*	Alter extension valving on New Strange single adjustable shocks- pair $$ N/C $$	
	S5000NV*	Alter one adjustment on New Strange double adjustable shocks- pair $N/C$	
		For both adjustments on New double adjustable shocks- pair\$25	
Ì	S5200UV**	Alter extension valving on Used Strange single adjustable shocks- pair \$60	
	S5000UV**	Alter one adjustment for Used Strange double adjustable shocks- pair\$60	
		For both adjustments on Used Strange double adjustable shocks- pair\$85	
	S5200UR**	Rebuild Strange single adjustable shocks- pair\$60	
Ì	S5000UR**	Rebuild Strange double adjustable shocks- pair\$80	

\* At time of purchase \*\* Labor only- Parts extra- Send shocks in without springs

#### **STRUTS**

S3502AR**	Rebuild '87 to present Strange eye mount struts- pair	\$100
S3510AR**	Rebuild '87 to present Strange stud mount struts- pair	\$100
S3500NR*	Alter extension valving on New Strange struts- pair	N/C
S3500UR**	Alter extension on used Strange struts- pair	\$70
S3500DC	Dyno check & graph Strange struts in "sent-in" setting- pair	\$75
S3500DG	Dyno check & graph Strange struts per customer request- pair	\$100

\* At time of purchase

\*\* Labor only- Parts extra- Send struts in without springs

## SUSPENSION

S1415	Test spring rate- pair	\$15
S1418	Remove and reinstall springs on shocks or struts- pair	\$40
S3457WT*	Install weld tabs on S3453 spindles for Strange lightweight brake kit	\$70

\* Labor only - Parts extra



# MADE IN THE USA

## **Strange Engineering**

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