



STREET ROD

9 inch Ford Center Sections
Econo Brake Kits for 9 inch
Drum Brake Kits for 9 inch
9 inch Ford Housing and Axel Kits
Chevelle, G-Body, C-10, Tri 5 Chevy and others

CIRCLE TRACK

9 inch Ford Floater Rear Ends
9 inch Ford Race Center Sections
Quick Change Rear Ends
Quick Change Gear Sets

5th Edition



SCAN ME

DRIVESHAFTS & OFF ROAD

Carbon Fiber
Aluminum
Chrome Moly
Steel
Jeep / ATV / UTV

DRAG RACE

9 inch Ford Housings
Center Sections: Aluminum
Bolt Thru and Nodular Iron
Driveshafts

GEARS / REARS / DRIVESHAFTS

PHONE: 636.629.6200 - sales@pemracing.com

TABLE OF CONTENTS

<i>Quick Change Rear Ends, Gears and Ratio Chart</i>	3-6
<i>Quick Change Ring & Pinions, Spools and Parts</i>	7-11
<i>Assembled Center Sections, Options and Heli Tracs</i>	12-14
<i>Ring & Pinions and Xtreme Gear</i>	15-16
<i>REM Finishing, REM Parts and Cryo Treatment</i>	17-19
<i>Spools, Mini Spools and Drive Flanges</i>	20
<i>Trac Locs, Bearings and Install Kits</i>	21-22
<i>Ford 9 inch Cases and Pinion Supports</i>	23
<i>Rear End Yokes, Transmission Slip Yokes and U-joints</i>	24-25
<i>Transmission and Differential Flange Yokes</i>	26
<i>Drive Shafts and PEM Offroad</i>	27-31
<i>9 inch Ford Floater Rear Ends, GN Hubs and W5 Axles</i>	32-33
<i>New Center Housing and Flange Housing Ends</i>	34
<i>Flange Axles, Parts and Flanged Housing Kits</i>	35-36
<i>PEM Rebuild Kits, PEM Street and Drag Racing Kits</i>	37-40
<i>PEM Econo Rear Brake Kits and Components</i>	41-42
<i>Rear End Tools</i>	43
<i>PEM Merchandise and PEM Gear Lube</i>	44
<i>Quick Change Schematic</i>	45
<i>Quick Change, Drive Shaft, Rear End & Axle Build Sheets</i>	46-50
<i>Rear End Technical Information and Set Up Specifications</i>	51

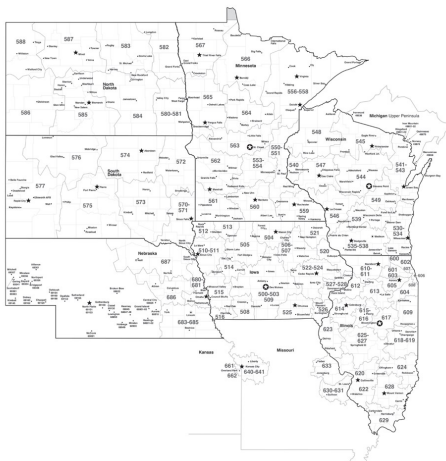


WARNING: Cancer And Reproductive Harm-
www.P65Warnings.ca.gov

WARRANTY

Purchasers understand and recognize that racing parts, specialized street rod equipment, and all other parts and services sold by PEM, LLC are exposed to many and varied conditions due to the manner in which they are installed and used. Except for certain limited warranties, if any, set forth in PEM, LLC's current catalog with respect to the products and/or parts thereof identified on your invoice, each product, and each part thereof, is sold "as is", and "with all faults" and PEM, LLC makes no warranties either expressed or implied, written or oral, with regard such products and services including, without limitation, any warranty of merchantability or fitness for a particular purpose. Without limiting the foregoing, there is no warranty expressed or implied as to whether the goods sold hereby will protect purchasers or ultimate end-users of such products and parts from injury or death. In no event shall PEM,

SPEE-DEE DELIVERY



ORDERING

Order by part number. PEM will not be responsible for incorrect orders placed by description only. Specify shipping instructions when order is placed; otherwise, we will use our discretion. Specialized or custom parts cannot be cancelled after order is in process.

SHIPPING

Orders can be shipped COD by certified check or money order, Visa, Mastercard, American Express or Discover. PEM offers UPS and Spee Dee Delivery. Shipping damages must be reported immediately to your carrier-save your cartons! Shortage claims and damages must be reported within 2 business days of receipt to PEM.

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RETURN POLICY

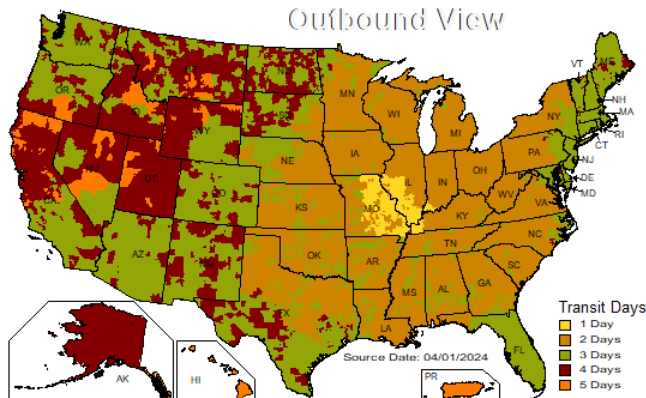
IMPORTANT: ALL returns must include a Return Materials Authorization Number (RMA #). The issuance of an RMA # does not constitute a guarantee of credit or replacement. Credit, refund or replacement will only be issued after an inspection and determination at our discretion. No returns are accepted on special orders or custom merchandise, obsolete products, damaged, used or altered merchandise. ALL returns must include: RMA # on the outside of the box, proof of purchase and contact information. Returns must be freight pre-paid. ALL unused returns are subject to a 15% restocking fee.

DISCLAIMER

Street rodding, street rod building, racing, race car building, motor-sports, Off roading and associated activities can be dangerous. No warranty or representation is made as to the ability of the merchandise appearing in this catalog to protect the user from injury or death. The user assumes **ALL** risk! PEM is not responsible for any typographical errors, printing errors or misinterpretations. We disclaim any responsibility of any application or specification errors. Also, please be advised that PEM reserves the right to change the pricing and policies in regards to this catalog without notice.

UPS Ground Service

Outbound View



PEM Quick Change Rear End



All of our quick changes are manufactured with permanent mold magnesium/aluminum alloy castings, heat treated lower shaft, roller pinion nose bearing, and pinion posi nut.

PEM GN complete assemblies use PEM 5 x 5" 2.5" GN hubs, .810 brake rotors and PEM solid wide 5 axles.

- | | |
|---|--|
| QCNT | quick change assembly / no tubes |
| QCSTGN | quick change assembly with steel .188" centerless ground 2.5" GN tubes |
| QCKSTGN5 | quick change assembly with 5 x 5" hubs, rotors and solid axles |
| QCST-HV | quick change assembly with Howe/Vogel 2" GN snouts on tubes |
| QCSTW5 | quick change assembly with wide 5 steel snouts on tubes |
| QCATW5 | quick change assembly with wide 5 aluminum tubes |
| <i>Please specify on above assemblies; 4:11 or 4:86, track width of rear end and either centered pinion or pinion offset requested.</i> | |
| QCNT-MAX | quick change assembly / no tubes |
| QCNT-MAX-8 | quick change assembly / no tubes with 8 rib side bells |
| QCSTGN-MAX | quick change assembly with steel .188" centerless ground 2.5" GN tubes |
| QCSTGN-MAX-8CM | quick change assembly with 8 rib side bells and .188" chrome moly GN tubes |
| QCKSTGN5-MAX | quick change assembly with 5 x 5" hubs, rotors and gun drilled axles |
| QCKSTGN5-MAX-8CM | quick change assembly with 8 rib side bells, chrome moly tubes with 5x5" hubs, rotors and gun drilled axles |
| QCST-HV-MAX | quick change assembly with Howe/Vogel 2" GN snouts |
| QCSTW5-MAX | quick change assembly with wide 5 steel tubes |
| QCATW5-MAX | quick change assembly with wide 5 aluminum tubes |
| QCATW5- 1TonMAX | quick change assembly with 8 rib bells and 1 Ton wide 5 aluminum tubes. The Best Rear for Dirt Late Model Racing. Notes on page 11. |

MAX Option quick change rears have black thermal coating, 6 bolt billet rear cover, all REM internals for low drag, lightened spool, drilled lower shaft, gun drilled axles and breather kit.

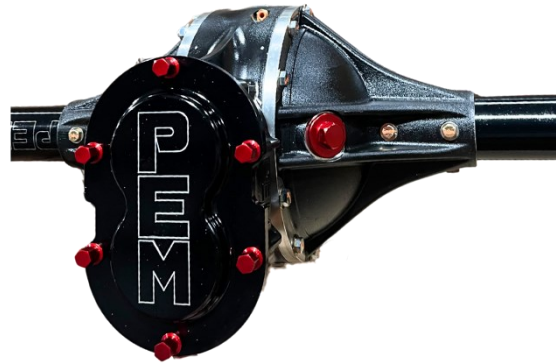
Please specify on above assemblies; 4:11 or 4:86, track width of rear end and either centered pinion or pinion offset requested.

On wide 5 and HV tubes we will have you send the B Measurement from the chart on page 46.



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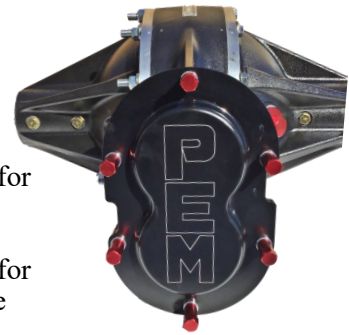
PEM Quick Change Rear End Options



INSTALLED OPTION PART NUMBERS

RED means these options are already installed in a MAX QC Rear End

- | | |
|--|--|
| QCO1000 Drilled Lightened Spool | QCO2600-1 Locking GN 2.5" Snout Nuts |
| QCO1100 9.5" outside diameter ring gear | QCO2700 Up-charge for 6 bolt rear billet cover |
| QCO1200 9.0" outside diameter ring gear (crate) | |
| QCO1300 Black thermal coating | |
| QCO1400 REM finish ring & pinion | |
| QCO1500 REM finish all bearings and races | |
| QCO1600B Gun drilled Black Axle Option Pair | |
| QCO1750 .188" wall chrome moly tubes | QCO2800 Upcharge for 8 rib bells (pair) |
| QCO1800 Black anodized 10 bolt billet rear cover | QCO2900 Upcharge for one ton aluminum tube (per side) |
| QCO1900 Wilwood 1" wide spec 37 brake rotors | |
| QCO2000 Drilled lower shaft | |
| QCO2100 Assembled Center and Bells in Box - does not include the truck freight | QCO3300 Upcharge for longer forged rear end Yoke |
| QCO2200 Upcharge to install 5/8th steel tube on GN 2.5" snout rear end (specify side) | QCO3400 Upcharge for GN Scalloped Drive Flanges |
| QCO2250 Upcharge to install 5/8th steel tube on left rear wide 5 late model rear end | QCO3500 Upcharge for .250" wall steel DOM tubes |
| QCO2500 Upcharge to Fully assemble for pick up | QCO3600 Upcharge for 4.75" hubs |



WE REBUILD ALL BRANDS OF FULL SIZE QUICK CHANGE REAR ENDS

PEM Quick Change Gear Sets

PEM Premium Polished Lightweight Quick Change Gears 10 spline

650 series

High strength 8620 alloy steel with
REM® ISF Microfinished surface

Drilled and machined to
reduce your rotating weight.

*Not all ratios have both gears
lightened due to tooth design.*



Raced in Sprint Cars, Dirt and Asphalt Late Models.

DirtCar Big Block Modifieds and IMCA/UMP/USMTS Style Modifieds

PEM Standard Quick Change Gears 610 series

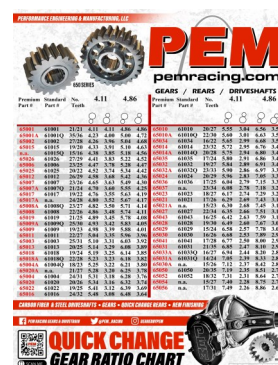
High strength 8620 alloy steel,
hobbed and fully heat treated.
10 spline

PEM Standard Quick
Change Gears can be REM®
ISF Microfinished at an
additional charge.



Quick Change Gear Poster

- Laminated,
- Easy to read
- 19 x 25"



QC Gear Storage Case

Holds eight
sets of gears.
Durable Hard
Plastic
(gears not included)



QC Gear Tote

Holds one set of
gears.

Durable Hard
Plastic



PEM FULL SYNTHETIC GEAR LUBE - 75-140W

Read Full Product Information on page 44

NEW PRODUCT

PEM FULL SYNTHETIC 75W-140 GEAR LUBE



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Quick Change Gear Ratio Chart

Premium Part #	Standard Part #	No. Teeth	4.11	4.86
			8 8 8 8	
65001	61001	21/21	4.11	4.11 4.86 4.86
65001A	61001Q	35/36	4.23	4.00 5.00 4.72
65002	61002	27/28	4.26	3.96 5.04 4.68
65015	61015	19/20	4.33	3.91 5.10 4.63
65015A*	61015Q	15/16	4.38	3.85 5.18 4.56
65026	61026	27/29	4.41	3.83 5.22 4.52
65006	61006	23/25	4.47	3.78 5.28 4.47
65025	61025	20/22	4.52	3.74 5.34 4.42
65012	61012	26/29	4.58	3.68 5.42 4.36
65007	61007	23/26	4.65	3.63 5.49 4.30
65007A	61007Q	21/24	4.70	3.60 5.55 4.25
65017	61017	19/22	4.76	3.55 5.63 4.19
65017A	61017Q	24/28	4.80	3.52 5.67 4.17
65008A	61008Q	23/27	4.82	3.50 5.71 4.14
65008	61008	22/26	4.86	3.48 5.74 4.11
65019	61019	21/25	4.89	3.45 5.78 4.08
65009A	61009Q	25/30	4.93	3.42 5.83 4.05
65009	61009	19/23	4.98	3.39 5.88 4.01
65011	61011	22/27	5.04	3.35 5.96 3.96
65003	61003	25/31	5.10	3.31 6.03 3.92
65013	61013	20/25	5.14	3.29 6.08 3.89
65018	61018	19/24	5.19	3.25 6.14 3.85
65018A	61018Q	22/28	5.23	3.23 6.18 3.82
65004A	61004Q	18/23	5.25	3.22 6.21 3.80
65020A	n.a.	21/27	5.28	3.20 6.25 3.78
65004	61004	24/31	5.31	3.18 6.28 3.76
65020	61020	20/26	5.34	3.16 6.32 3.74
65022	61022	19/25	5.41	3.12 6.39 3.69
65016	61016	24/32	5.48	3.08 6.48 3.64
65010	61010	20/27	5.55	3.04 6.56 3.59

Premium Part #	Standard Part #	No. Teeth	4.11	4.86
			8 8 8 8	
65010A	61010Q	22/30	5.60	3.01 6.63 3.56
65034	61034	16/22	5.65	2.99 6.68 3.53
65014	61014	23/32	5.72	2.95 6.76 3.49
65014A	61014Q	20/28	5.75	2.94 6.80 3.47
65035	61035	17/24	5.80	2.91 6.86 3.44
65032	61032	19/27	5.84	2.89 6.91 3.42
65032A	61032Q	23/33	5.90	2.86 6.97 3.39
65024	61024	20/29	5.96	2.83 7.05 3.35
65036	61036	17/25	6.04	2.79 7.15 3.30
65037	61037	23/34	6.08	2.78 7.18 3.29
65023	61023	18/27	6.17	2.74 7.29 3.24
65021	61021	17/26	6.29	2.69 7.43 3.18
65021A	n.a.	15/23	6.30	2.68 7.45 3.17
65027	61027	22/34	6.35	2.66 7.51 3.15
65043	61043	16/25	6.42	2.63 7.59 3.11
65028	61028	19/30	6.49	2.60 7.67 3.08
65028A	n.a.	17/27	6.53	2.59 7.72 3.06
65029	61029	15/24	6.58	2.57 7.78 3.04
65030	61030	16/26	6.68	2.53 7.89 2.99
65040	n.a.	19/31	6.71	2.52 7.93 2.98
65041	61041	17/28	6.77	2.50 8.00 2.95
65031	61031	21/35	6.85	2.47 8.10 2.92
65033A	61033Q	16/27	6.94	2.44 8.20 2.88
65031A	61031Q	14/24	7.05	2.39 8.33 2.83
65030A	n.a.	15/26	7.12	2.37 8.42 2.80
65050	61050	20/35	7.19	2.35 8.51 2.78
65052	61052	18/32	7.31	2.31 8.64 2.73
65054	n.a.	15/27	7.40	2.28 8.75 2.70
65056	n.a.	17/31	7.49	2.26 8.86 2.67

pemracing.com

#gearedbyPEM

PEM QUICK CHANGE RING & PINIONS AND SPOOLS

PEM Quick Change Ring & Pinions

Standard ring gear OD is 10 inches

QC411R&P 4.11 Ring & Pinion Bare

QC486R&P 4.86 Ring & Pinion Bare

QC411R&PLW 4.11 Ring & Pinion 9.5" OD LW Bare

QC486R&PLW 4.86 Ring & Pinion 9.5" OD LW Bare

QCR&P411LOAD 4.11 Ring & Pinion Loaded

QCR&P486LOAD 4.86 Ring & Pinion Loaded

QCR&P411LWLOAD 4.11 Ring & Pinion 9.5" Loaded

QCR&P486LWLOAD 4.86 Ring & Pinion 9.5" Loaded

All loaded ring & pinions have an aluminum posi nut installed and also come with the roller nose bearing.

REM® ISF Finishing available at additional charge.



PEM QC Aluminum Spools

QCFSA31 aluminum
spool 2.032" journal

QCFSA31L lightened alu-
minum spool



SPOOL Bearings, Races and Shim Kit

P368S 2.032" spool bearing

P368A 2.000" spool bearing

P362A race for P368S and P368

QCC0133 spool Shim Kit - 12 piece kit

REM is a registered trademark of REM Chemicals Inc.
registered in the U.S. Patent and Trademark Office.

REM® ISF Finished Bearings
on page 18

Replacement Parts for Quick Change Rear Ends

QCC0010	center section case only -bare	QCC0119S K10	back cover nuts -10 piece kit
QCC0020K	drivers 6 rib side bell kit, plugs and race	QCC0120	lower shaft bearing retainer - snap ring
QCC0030K	passenger 6 rib side bell kit, plugs and race	QCC0121o	rear yoke plate o-ring
QCC0021K	drivers 8 rib side bell kit, plugs and race	QCC0122	back cover bearing retainer bolts
QCC0031K	passenger 8 rib side bell kit, plugs and race	QCC0123	back cover bearing retainer - aluminum
QCC0040K	back cover assembly with bearings and retainers	QCC0125	3/8" allen head pipe plug, aluminum
QCC0050	wide 5 aluminum tube up to 30 3/16"	QCC0126	yoke seal-prior to 2025
QCC0060	lower solid thru shaft—heat treated	QCC0128K	passenger side inspection/fill plug with o-ring
QCC0061	drilled lower thru shaft—10 spline	QCC0129K	tube bolt & washer kit 6 piece kit
QCC0080	yoke seal plate - bare—aluminum finish	QCC0131/2K	ring gear bolt and washer kit 12 pcs each
QCC0081	New in 2025 - Red yoke seal plate	QCC0135	thrust jam nut - aluminum
QCC0080o	yoke seal plate o-ring	QCC0136	thrust flat washer - aluminum
QCC0090	forged yoke -1310 series	QCC0137	thrust block
QCC0100	rear pinion retainer plate	QCC0137K	thrust block assembly kit
QCC0101	pinion retainer lock washer	QCC0139K	breather kit
QCC0102	spacer under pinion retainer	QCC0139-1K	2021-up breather kit
QCC0103	posi lock nut alum. for pinion RH thread	QCC0140K	thru bolt kit with short bolts 12 piece kit
QCC0104	rear cover gasket heavy duty, steel core	QCC0145	pinion thrust washer
QCC0105	rear cover gasket	QCC0146	lower bearing retainer
QCC0106K	yoke support bolt kit 6 piece kit	QCC0147	big bearing for only BB Billet back cover 6405
QCC0107	carrier seal	QCC0151	double lip yoke seal for Red yoke support
QCC0108	back cover bearing standard - 6305NR	P27880	pinion tapered roller bearing
QCC0111	pinion retainer bolt and washer kit	P27880Kit	pinion bearing kit - 2 bearings, race and spacer
QCC0112o	o-ring for back cover bearing retainer	P27820OD	pinion race - holds 2 bearings
QCC0113	back cover stud	PMU1205	pinion support bearing
QCC0113K	back cover stud kit - 10 piece kit	P7339	rear lower shaft bearing 6207ZZ
QCC0114K	aluminum plug with o-ring	P7390	front lower shaft bearing 6307ZZ
QCC0115K	spur gear inspection plug with o-ring	K7339	Koyo rear lower shaft bearing 6207ZZ
QCC0116	yoke bolt only	K7390	Koyo front lower shaft bearing 6307ZZ
QCC0116K	yoke bolt and washer kit		
QCC0117	washer for yoke		
QCC0118	side bell o-ring - thin square		
QCC0119S	short back cover nut - red aluminum		
QCC0119S K-6	back cover nuts -6 piece kit		

QCCRBK-2.032 rebuild kit with all bearings/races/seals/o-rings for a PEM Standard or Winters Sprint center

REM-QCCRBK BBC rebuild kit with all bearings/races/seals/o-rings for a PEM MAX QC with big bearing cover

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**Pg.
7**

Replacement Parts for Quick Change Rear Ends

Quick Change Rebuild Kit with all bearings and seals for PEM and Winters Sprint Center Rear. Fits standard pinion (not spread pinion). Choose for standard rear or MAX rear bearing rear cover.



QCCRBK 2.032" for standard qc rear

REM-QCCRBK BBC for MAX qc rear

QCC0131/0132K Threaded Ring Gear Bolt and Washer Kit with 3/8-24 thread, 1-1/8" long, Grade 8 hex head steel bolts, 12 bolts and 12 Belleville washers.
* use new ring gear bolts when installing a new ring & pinion *



Forged 1310 Quick Change Yoke
10 spline, use with u-bolts.
Does not use a spacer. Forged to be stronger than cast.



QCC0090 QC yoke
QCC0090K QC yoke with bolt, washer, and threadlocker
QCC0091 QC yoke Black Long +1 inch
QCC0116K yoke bolt and washer
N1-0089L 1310 u-bolts, pair

Heat Treated Lower Shaft

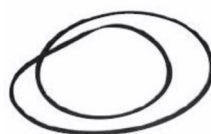
fits PEM, Winters and DMI quick change, 10 spline.



QCC0060 heat treated solid lower shaft, 10 spline
QCC0061 gundrilled heat treated lower shaft, 10 spline
QCC0120 snap ring for lower shaft

QCC0103

Posi Lock Pinion Nut
Right hand thread
Aluminum Locking Nut for Pinion



Side Bell O-Ring

Thin square fits PEM, Quick Change

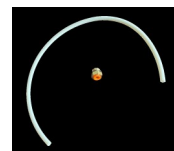


Plugs with O-Ring

QCC0114K back cover (2 needed) and passenger side fill level plug
QCC0115K center section plug
QCC0128K passenger side bell inspection plug

QCC0149K 12an to 10 an fill fitting

QCC0139-1K quick change breather kit, fitting and hose for 2021-up PEM QC rears



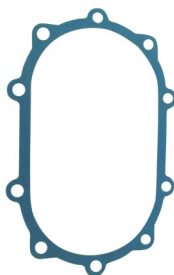
Rear Cover Stud

QCC0113 one piece
QCC0113K-6 6 piece kit
QCC0113K 10 piece kit



Rear Cover Gasket for 10 bolt quick change flat cover, sprint style.

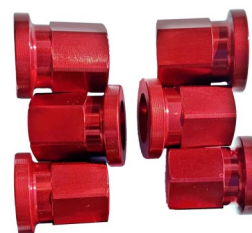
QCC0104 HD with steel core



Rear QC Cover Nuts

Red Billet Short Nuts for Sprint Style Rear Covers

QCC0119S one piece
QCC0119S K-6 6 piece kit
QCC0119S K-10 10 piece kit



Rear Cover Assembly with Bearings Installed

QCC0040K cast with caps and standard bearings

QCC0040B BBK black 10 billet big bearing cover

QCC0040B BB6B-K 6 bolt billet big bearing cover

QCC0040B BB6B-K Red 6 bolt billet big bearing cover



Parts for Quick Change Rear Ends

REM ISF 9 inch OD QC Ring & Pinion

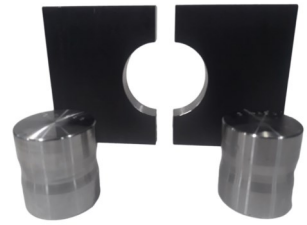
(only for 602 & 604 crate motors)



Reduce rotating weight without converting to a weaker 8" OD quick change. Installs in your standard QC rear.
Specify Ratio; 4.11 or 4.86
REM-QC4##R&P-9
REM-QC4##R&P-9Loaded

QUICK CHANGE PRESS KIT

Press Plate Kit to help you press out qc tube from side bell.
 Two pucks for .188" and .250 wall tubes.



QCC0232WK

NEW Design for 2025

Top GM Metric Bolt on Mount for Quick Change Rear End

- 1979-1987 GM Midsize Chassis
- 4 degrees down pinion angle
- Poly top bushings installed
- Fits 6 rib sidebells
- Fits 8 rib sidebells with slight modifications



Quick Change Side Bells with Tubes Installed

We can send quick change side bells with tubes installed. Right side shown.

QCC30300 RS 6 rib side bell with 24" GN tube installed

QCC30300T RS Black Thermal 6 rib side bell with 24" GN tube installed

QCC31300T RS Black Thermal 8 rib side bell with 24" GN tube installed

QCC31300T-8CM RS Black Thermal 8 rib side bell with Chrome Moly .188" wall 24 GN tube installed

Other lengths available.



6 Rib Side Bells

PEM 6 rib Quick Change Bells fit PEM, Winters, Tiger and DMI quick change rear ends. Our 6 rib bells have wider ribs and are stronger than other brand 6 rib side bells and are manufactured from our proprietary magnesium/aluminum alloy.

QCC0020K driver side bell with thrust block and race installed

QCC0030K passenger side bell with inspection plug and race installed



Black thermal option:
add -T after part number

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8 Rib Side Bells

PEM 8 rib Quick Change Bells fit PEM, Winters, Tiger and DMI quick change rear ends. Our 8 rib bells are designed to reduce flex in the rear end due to high loads and are manufactured from our proprietary magnesium/aluminum alloy.

QCC0021K driver side bell with thrust block and race installed

QCC0031K passenger side bell with inspection plug and race installed



Black thermal option:
add -T after part number

F. 636.629.6207

PEM Double Spline Axles and Rear End Tubes

Wide 5 High Test Gun-drilled Axle

High strength alloy steel. Black Oxide coated.

Coarse threads. Backed by extensive testing.

Axle includes aluminum plug for spacer bolt.

Fits 31 spline spool and 24 spline outer drive flanges.



GDW5###31-B

Available lengths: 27.5, 28.5, 29, 29.5, 30, 30.5, 31, 31.5, 32, 32.5, 33, 33.5, 34, 35, 35.5, 36 and 37"



5/8" HEAVY WALL STEEL TUBES

for GN 2.5" and wide 5 Snouts

Centerless Ground Tubing, Tubes weigh from 16-22 lbs. heavier than a .188" wall steel tube (depending on length of tube)



Wide 5 Double Spline Solid Floater Axle

24 spline outer for drive flange 1541 alloy Fine threads Induction Hardened for strength

W5###31 31 spline axle lengths; 25.625, 27.5, 28.5, 29.5, 30.5, 31.5, 32, 32.5, 33, 33.5, 34.5 and 36"

W5###28 28 spline axle lengths; 28.5, 29.5, 30.5, 31.5, 32.5, 33.5 and 36"

4 inches of inner spline allow these axles to be cut off for other lengths.

Centerless Ground GN Rear End Tubes

TWSnout##QCB

GN 2.5" snout rear end tubes; .188" and .250" wall DOM steel tubing centerless ground to 2.999 - 3.0" OD with plug welded snout.

Available lengths; 22, 23, 24, 25, 26, 29 and 32".

These tubes are measured total length.

For example, a 60" centered pinion GN quick change takes two 24" tubes.

Retainer bolt holes must be drilled and tapped after installation in QC side bell.



QCKK conversion kit with tubes, hub nuts, axles and axle snout seals (no hubs or rotors)

QCKK5 conversion kit with 5x5" GN 2.5" hub assemblies and .810" rotors, tubes, hub nuts, axle snout seals and solid axles

QCKK4 conversion kit with 5x4 3/4" GN 2.5" hub assemblies and .810" rotors, tubes, hub nuts, axle snout seals and solid axles



TWS-QCB HV steel tube

Order tube for a GN 2.0" Howe/Vogel style hub. Centerless ground .188" wall DOM Steel.

Specify B measurement, length from bearing step to end of tube.

Spacer Bolt Kits for Axles

2 bolts and jam nuts

QCC0270K for Solid axles (fine)

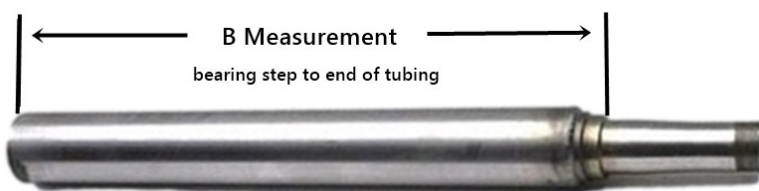
QCC0275K for GDW5 axles (coarse)

Replacement Parts for Quick Change Rear Ends

Wide 5 Steel Tube TwsW5##QCB

Available in centerless ground .188" and .625" wall DOM Steel Tubing.

Specify B measurement - length from bearing step to end of tube.
Plug welded snout.



QCC0231 wide 5 aluminum locking hub nut kit

Wide 5 Aluminum Tube

T6061 Aluminum black anodized

Specify B measurement, length from bearing step to end of tube.

QCC0050-31.5 for 31.5" axle - B measurement 20.0"
QCC0050-32 for 32" axle - B measurement 20.5"
QCC0050-33 for 33" axle - B measurement 21.5"
QCC0050-34 for 34" axle - B measurement 22.5"
QCC0050-35 for 35" axle - B measurement 23.5"
QCC0050-36 for 36" axle - B measurement 24.5"
QCC0050-CTL we cut to your B measurement



1 TON Aluminum Tube

T6061 Aluminum black anodized

Stainless wear sleeve installed

Specify B measurement, length from bearing step to end of tube

QCC0051-31.5 for 31.5" axle, B measurement 20.0"
QCC0051-32 for 32" axle, B measurement 20.5"
QCC0051-325 for 32.5" axle, B measurement 21.0"
QCC0051-33 for 33" axle, B measurement 21.5"
QCC0051-34 for 34" axle, B measurement 22.5"
QCC0051-35 for 35" axle, B measurement 23.5"
QCC0051-36 for 36" axle, B measurement 24.5"
QCC0051-CTL we cut to your B measurement
QCC0051-WR stainless wear sleeve for 1 ton tube

1 ton axle tubes offer racers and chassis builders an option to increase strength and reduce flex. This is done by using a thicker wall snout while providing more clearance for the axle itself.

PEM 1 ton bearings and races are REM® ISF Micro-finished surface treated for less friction.

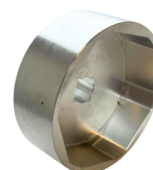


1 Ton Bearings, Seal and Kit

QCC0230K QC snout nut for 1 ton with locking system (does not fit Duece 1/2 ton tube)
QCC0237K 1 ton bearing and seal kit (2 bearing sets and seal)
QCC0234 1 ton seal
QCC0235 outer 1 ton bearing and race
QCC0236 inner 1 ton bearing and race
QCC0238K 1 ton bearing, seal and nut kit

Spindle Nut Sockets - 1/2" drive

Socket 1 Ton for 1 ton wide snout nut
Socket W5 3/4 Ton for Wide 5 snout nut
Socket 2.5GN for GN 2.5" snout nut



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Assembled Center Sections

Center Section Full Spool

CSFS 9 inch Ford Circle Track with full steel spool. All New with PEM nodular iron case, pinion support, yoke and standard ring & pinion with steel lite full spool (28 or 31 spline). All new assembly.
Ratios available: 3:50 thru 6:50.



CSFSLW 9 inch Ford Circle Track with full steel spool. All New with PEM nodular iron case, pinion support, yoke and standard lightweight ring & pinion with steel lite full spool (28 or 31 spline). All new assembly.
Ratios available: 5:14 thru 7:33.



Center Section Mini Spool

CSMS 9 inch Ford with mini spool. New PEM nodular iron case, pinion support, yoke and standard ring & pinion with steel mini spool (28 or 31 spline). Reconditioned mini spool carrier.
Ratios available: 3:50 thru 6:50.



Center Section Trac Loc

CSTL 9 inch Ford street with trac loc and PEM nodular iron case and pinion support, Premium ring & pinion, trac loc clutch style differential (28 or 31 spline) and premium bearings. All new assembly.

Ratios available: 3:25 thru 4:11.
Specify yoke: 1310 short narrow, 1330 short wide or 1330 long wide.



“Brute” Nodular Iron Center Section with steel spool (28, 31, 35 or 40 spline), 8620 ring & pinion, nodular iron case and iron daytona support. All new assembly.
Ratios Available: 3.25 thru 7.33.
Specify yoke: 1310 short narrow, 1330 short wide. 1330 long wide or 1350 forged.



“Brute” Nodular Iron Drag Race Center Section with steel spool (28, 31, 35 or 40 spline), 9310 PRO ring & pinion, 3.25 carrier nodular iron case, 1350 billet yoke & aluminum pinion support. All new assembly.
Ratios Available: 3.40 thru 4.86.

Aluminum Support for 35 spline pinion

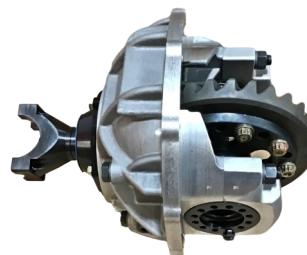
Drag Race Yukon Gear Aluminum Bolt Thru 3.25” Carrier Bearing Case



with 10 bolt pinion support, steel spool (35 or 40 spline). 9310 PRO 35 spline ring & pinion, billet chrome moly yoke and premium bearings. All new assembly.

Ratios Available: 3.40 thru 4.86.

Yukon Gear Aluminum Bolt Thru 3.25” Carrier Bearing Case, 28 Spline Pinion



with 5 bolt aluminum Daytona pinion support. Standard 8620 28 spline ring & pinion, steel spool (28, 31, 33, 35 or 40 spline), billet chrome moly yoke and premium bearings. All new assembly.

Ratios Available: 3.25 thru 7.33.

PEM Heli– Trac Differential

Gear Driven Torsional Differential Center Sections Smoother operation



CSHT PEM Heli-Trac
Nodular Iron Ford 9 inch
Center Section (28 or 31
spline). PEM nodular
iron case and pinion sup-
port, Premium ring &
pinion, PEM helical gear
unit differential and
premium bearings.

CSTT Eaton True Trac
Nodular Iron Ford 9 inch
Center Section (28, 31 or
35 spline). PEM nodular
iron case and nodular pin-
ion support, Premium ring
& pinion, Eaton True Trac
gear driven differential and
premium bearings.



PEM 9 inch Heli-Trac 28 and 31 spline Differentials

1.78" bearing journal size

Helical cut gear driven torsional differential for smooth operation.

Traction to the wheel that needs it.

Great for street and high performance driving.

F9HT 28 28 spline Heli-Trac

F9HT 31 31 spline Heli-Trac



EATON True Trac 9 inch Ford Differentials

F9True Trac 28 / 912A587 28 spline, 1.78" bearing journal size

F9True Trac 31 / 913A586 31 spline, 1.78" bearing journal size

F9True Trac 35 / 914A690 31 spline, 2.00" bearing journal size

The Eaton Truetrac is a helical-gear style performance differential that maximizes wheel traction and enhances driving and handling characteristics. Eaton TrueTrac requires NO maintenance (no clutches to wear out).



Center Section Options

CSO1000 UPGRADE - REM Finish ring & pinion

CSO1100 UPGRADE - REM Finish bearings and races for center section

CSO1200 UPGRADE - Additional Lightening of Ring Gear

CSO1250 UPGRADE - MAX Lightening of Ring Gear

CSO1300 UPGRADE to 35 spline spool FS35SB for 2.89 carrier bearing

CSO1400 UPGRADE to Drag Race Tapered Spool- 31 spline

CSO1450 28 UPGRADE to FS28LWS - Scalloped LW Spool

CSO1450 31 UPGRADE to FS31LWS - Scalloped LW Spool

CSO1500 UPGRADE to Iron Daytona Pinion Support with corresponding parts

CSO1600 UPGRADE to Aluminum Daytona Pinion Support with corresponding parts

CSO1700 UPGRADE to 1330 Long Wide Yoke

CSO1750 UPGRADE to 1330 Short Wide Yoke

CSO1800 UPGRADE to 1350 Forged Yoke

CSO1850 UPGRADE to Brute (DHNI3250) and Conversion Races (PRace325case289bearing)

CSO1900 UPGRADE - US Gear Street Gear 3.25, 3.50, 3.70, 3.89 or 4.11 ratios

CSO2200 UPGRADE 3/4" to 1" ring gear bolts for a True Trac or Heli-Trac

COS2300 UPGRADE 3/4" to 1 1/4" ring gear bolts for a Trac Loc or Open Differential

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Center Section Build Options for Custom Orders



**9 inch Ford
Nodular Iron
Center Section**

8620 Ratios Available: 3.25 thru 7.33

9310 PRO Ratios Available:

3.50 thru 4.86 in 35 spline pinion

5.00 thru 6.50 ratio in 28 spline pinion

- Nodular Iron Case carrier size 2.891", 3.062" or 3.250" BRUTE
- Daytona Pinion Support (Nodular Iron or Aluminum)
- 1310, 1330 or 1350 series yoke
- Large Aluminum pinion support with 1350 35 spline series yoke
- Steel Spools in 28, 31, 33, 35 or 40 spline
- Trac Loc available in 28 or 31 spline
- Detroit Lockers available in 31 or 35 spline
- PEM Heli Trac available in 28 or 31 spline
- True Trac available in 28, 31 or 35 spline

Set up with street, competition or drag race backlash.

- **Option:** REM® ISF Microfinishing of ring & pinion, bearings and races

**9 inch Ford
Center Section
with 3.25" carrier
PEM Aluminum
Bolt Thru Case**



8620 Ratios Available:
3.25 thru 7.33

9310 PRO 35 spline

Xtreme Gear only 4.29 available

9310 PRO standard pinion

5.00 thru 6.50 ratio in 28 spline pinion

9310 PRO large pinion:

35 spline pinion, 3.50, 3.70, 3.89, 4.11, 4.57 and 4.86

- PEM 3.25" carrier size aluminum bolt thru case
- Steel Spools in 31, 33, 35 or 40 spline
- Detroit Locker in 35 spline
- True Trac in 35 spline
- Aluminum Pinion support available in 5 bolt for 28 spline pinion or 10 bolt for 35 spline pinion
- **Option:** REM® ISF Microfinishing of ring & pinion, bearing and races
- **Option:** Cryo Treatment of ring & pinion

These center sections are custom built to meet your needs. Contact PEM for information and ordering.

Drag Race Ford Center Section with 3.81" carrier Aluminum Bolt Thru Case

9310 PRO 9.5 inch ring & pinion with 35 spline pinion shaft.

Moser Engineering 3.81" aluminum bolt thru case

10 bolt aluminum pinion support

40 spline spool only

1350 Billet Yoke

Premium Bearings



**9.5 inch OD 9310 PRO Xtreme Gear
4.11 & 4.29**

9.5 inch OD 9310 PRO: 4.11, 4.29 and 4.57



- **Option:** REM® ISF Microfinishing of ring & pinion, bearings and races
- **Option:** Cryo Treatment of ring & pinion

Ring & Pinions



9 inch Ford Ring & Pinions 8620 steel alloy

Ratios Available: 3.50, 3.70, 3.89, 4.11, 4.30, 4.57, 4.71, 4.86, 5.00, 5.14, 5.29, 5.43, 5.67, 5.83, 6.00, 6.20, 6.33 and 6.50.

Lightweight 9 inch Ford Ring & Pinions 8620 steel alloy

Ratios Available: 3.50, 3.70, 3.89, 4.11, 4.30, 4.57, 4.71, 4.86, 5.00, 5.14, 5.29, 5.43, 5.67, 5.83, 6.00, 6.20, 6.33, 6.50, 6.66, 6.83 and 7.00.



SPECIAL RATIO 9 inch Ford Ring & Pinions

Ratios Available: 5.37, 5.50, 5.57, 5.75, 6.14, 6.43, 7.16 and 7.33.

These are the hard to find 8620 steel alloy ratios.

Premium Street Gear 9 inch Ford Ring & Pinions

Ratios Available: 3.25, 3.50, 3.70, 3.89 and 4.11.

These are the high quality street ring & pinions we install in all of our Street Gear 9 inch Ford Center Sections for minimizing audible gear harmonics. 8620 steel alloy



GM 7.5 inch Ring & Pinions

Ratios Available: 3.42, 3.73, 4.10 and 4.56.

All GM ring & pinions listed are for cars and have the narrow ring gear.

GM 8.5 inch Ring & Pinions

Ratios Available: 3.08, 3.42, 3.73, 4.10 and 4.56.

FORD 8.8 Ring & Pinions

Ratios Available: 3.55, 3.73, 4.10, 4.56, 4.88 and 5.13



PEM FULL SYNTHETIC GEAR LUBE - 75-140W

Read Full Product Info on page 44

NEW PRODUCT

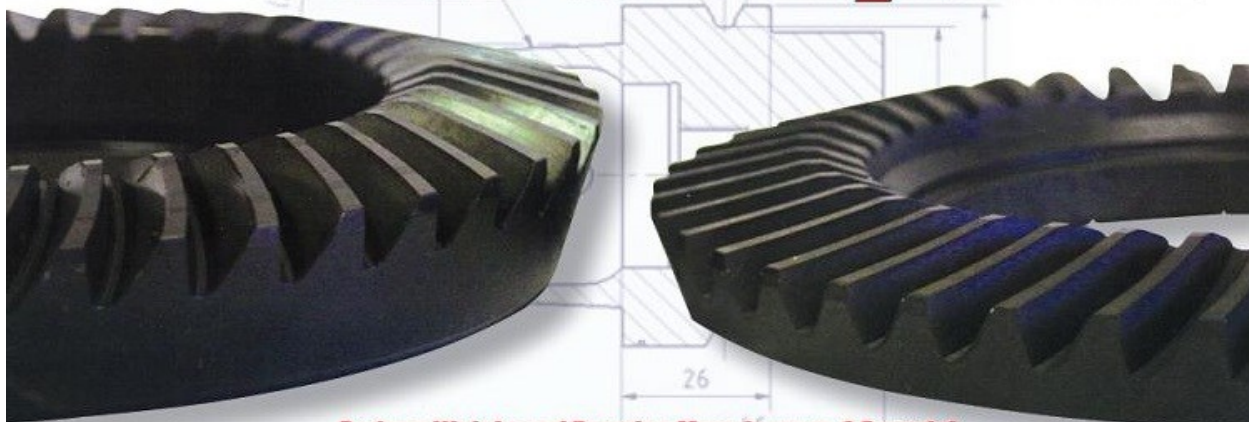
PEM FULL SYNTHETIC 75W-140 GEAR LUBE



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Dare To Compare!



Reduce Weight and Rotating Mass by up to 6 Pounds!
Standard Gear Set -vs- Xtreme Gear Set



BY PERFORMANCE ENGINEERING

Xtreme Series from Performance Engineering

Want to lose up to 6 pounds of rotating weight? Then you need to switch to Performance Engineering's (PEM) **Xtreme Gear** Ford 9" & 9½" ring and pinion sets, lockers and spools. Designed for ultimate strength and durability, PEM's ring and pinion sets provide 3 to 4 times the weight reduction of "chopped" gears without sacrificing durability.

8620 Ford 9 inch Ring & pinion Sets

PG F9/###LW 8620 9 inch Ford Xtreme series, 28 spline standard size pinion

Ratios available: 4.11, 4.30, 4.57, 4.63, 4.71, 4.86, 5.00, 5.14, 5.29, 5.43, 6.20, and 6.50. **Some ratios may be limited.**

Xtreme Gear 9310 Ford 9 inch Ring & pinion Sets

PG F9/429BPLW 4.29 ratio Big Pinion (35 spline)

Xtreme Gear 9.5 inch Ford 9310 Ring & Pinion Sets

PG F95/411BPLW 4.11 ratio Big Pinion (35 spline)

PG F95/429BPLW 4.29 ratio Big Pinion (35 spline)

PG F95/SPL40LW 40 Spline Spool 2.25" journal for 3.812" carrier aftermarket case

Xtreme Gear Ford 9 inch Steel Spools

PG F9/SPL28LW Ford 9 inch 28 Spline 1.78" journal

PG F9/SPL31LW Ford 9 inch 31 Spline 1.78" journal

PG F9/SPL40LW Ford 9 inch 40 Spline 2.0" journal

Xtreme Gear Ford 9 inch Locker 31 spline only

PG 187N/178AL Circle Track No Spin Detroit Locker Assembly 2.0" journal size for aftermarket 3.25" carrier case

Xtreme Gear 9 inch Ford Center Section **Lightest rotating weight available**

CSFSXLW 9 inch Ford Xtreme Gear with full steel spool and PEM nodular iron case and pinion support. Xtreme Gear 8620 offset ring & pinion, steel spool (28 or 31 spline) and 1310 forged yoke.

Check ratios available.

All new assembly.

Options:

- REM® ISF Microfinishing
- Additional Ring Gear Lightening
- Daytona Pinion Support
- Other Yokes available



REM® ISF Microfinish

All REM® ISF Microfinish completed in house at PEM.

Any time two metal parts come into contact with each other, the resulting friction causes heat build up. These high temperatures cause wear and over time reduce efficiency and eventually create the need for replacement. By creating a smooth and shiny finish, the ISF® Process improves the life and efficiency of moving metal parts. Increased life translates into lower operating costs as well as better performance.

The ISF® Process removes the asperities that are inherent in the manufacturing process. By safely removing these microscopic peaks, the ISF® Process leaves a much more uniform surface that reduces friction and allows for increased lubrication capability. While the dimensional integrity of the part remains intact, the result is an improved component that will operate at lower temperatures, have increased durability, quieter operation and increased time between maintenance.

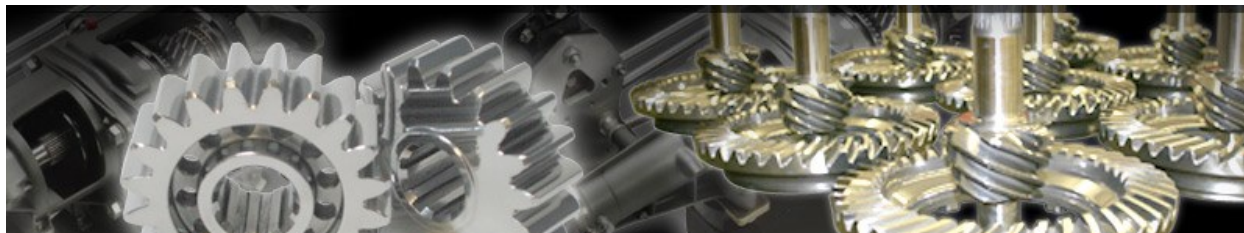
Please contact PEM for a RMA Authorization Number prior to shipping customer owned parts to be REM® ISF Microfinished.

REM® ISF Microfinishing available on all Ring & Pinions \$ 104.95
Up to 10" diameter ring gear. Larger sizes quoted.

- **Quick Change Gears for \$ 30.75 per Set**
- **Drive shaft Slip Yoke \$ 25.45 Each**
- **Motorcycle Transmission Internals \$ 210.95**
- **Racing Automotive Transmission Internals**
- **Internal Engine Components**
- **We will Quote Polishing on other parts with price not listed.**



In extreme environments, such as automobile or motorcycle racing, every component must work in harmony at 100% capacity. Races are won and lost by fractions of a second, so it all comes down to getting the most power output possible. With the ISF® Process, the energy normally lost to friction is now available in the form of increased power output. Once friction is reduced, the parts will run cooler allowing for longer durability of parts and fewer failures. To the high performance racing market, Smooth and Shiny means faster and cooler.



REM is a registered trademark of REM Chemicals, Inc. registered in the U.S. Patent and Trademark Office. The ISF®-Process is a chemically accelerated vibratory mass finishing process patented worldwide by REM Chemicals, Inc USA.

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**Pg.
17**

REM ® ISF Microfinished Bearings and Races

REM ® ISF Microfinished 9 inch Ford Center Section Bearings and Races

REM-KHM89410	Daytona pinion support race rear-KOYO
REM-KHM89443	Daytona pinion support bearing rear-KOYO
REM-KLM102910	1.781" ID x 2.891" OD carrier race
REM-KLM102949	1.781" ID x 2.891" OD carrier bearing
REM-KLM 104911	2.00" ID x 3.250" OD race
REM-KLM104949	2.00" ID x 3.250" OD bearing
REM-KLM603011	1.781" ID 3.062" OD race
REM-KLM603049	1.781" ID 3.062" OD bearing
REM-KM88010	stock pinion race
REM-KM88048	stock pinion bearing
REM-BA1535TAV	pilot bearing
REM-PRace	adaptor race carrier bearing (3.250" to 2.891")
REM-T2729	35 spline pinion front race
REM-T2788	35 spline pinion front bearing
REM-THM804810	35 spline pinion race rear
REM-THM804846	35 spline pinion race bearing rear



REM ® ISF Microfinished GRAND NATIONAL 2.5" HUB BEARINGS and RACES

REM-GNHBK	GN hub install kit with bearings, seal, o-ring and lock washer
REM-ZGNBL610510	GN hub race only
REM-ZGNRL610549	GN hub bearing only
REM-ZGNBRKit	GN Bearing and Race Kit 2 pieces each

REM ® ISF Microfinished Wide 5 Hub Bearings and Races

REM-P18690	W5 outer wheel bearing
REM-P18620	W5 outer wheel race
REM-P18790	W5 inner wheel bearing
REM-P18720	W5 inner wheel race
P23756LD	W5 seal hub LOW DRAG
REM-Wide5Kit	W5 bearing and race kit - one wheel
REM-Wide5KitLodrag	W5 bearing and race kit with Low Drag seal- 1 side
REM-Wide5KitLodragLocking	W5 bearing and race kit with Low Drag seal and wide 5 aluminum locking nut



REM ® ISF Microfinished Modified hybrid front Hub Bearings and Races

REM-PL68149	modified hybrid inner wheel bearing
REM-PL68110	modified hybrid inner wheel race
REM-PLM12749	modified hybrid outer wheel bearing
REM-PL12710	modified hybrid outer wheel race
REM-PLHybridKit	modified hybrid bearing and race kit with seal- one wheel

REM ® ISF Microfinished GM Metric front wheel Bearings and Races

REM-PLM12649	GM metric outer wheel bearing
REM-PLM12610	GM metric outer wheel race
REM-PLM67048	GM metric inner wheel bearing
REM-PLM67010	GM metric inner wheel race
REM-PLMetricKit	GM metric bearing and race kit with seal- one wheel

DAYlube Nano Ceramic Lubricating Grease is a must for REM ISF Finished Wheel Bearings

DAYlube 1oz one ounce syringe

DAYlube Tube 16 oz sixteen ounce tube

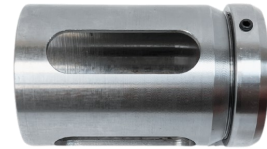


DAYlube™ is a high performance, highly stable lubricant that delivers unmatched performance, durability and wear resistance. Nano Ceramic particles – the Key component – act as submicroscopic ball bearings that have an affinity for steel, providing continuous lubrication at the surface. These are fabricated over a calcium sulfonate thickener and offer a lower Coefficient of Friction at all temperatures.

BEARING SPACERS / REM ® ISF Microfinished Bearings and Races

WHEEL BEARING SPACERS - Reduce Rotating Drag

BS-GN	Bearing Spacer for 2.5 inch GN Hub
BS-HYBRID	Bearing Spacer for Hybrid Front Hub and Pinto/Mustang II Spindle
BS-METRIC	Bearing Spacer for GM Metric Front Hub and Metric Spindle
BS-W5	Bearing Spacer for Wide 5 Hub Front Hub and Spindle



REM ® ISF Microfinished 9 inch Ford Installation Kits

REM-PEM1 PREMIUM	REM Kit -2.891" carrier bearings with stock support and crush sleeve
REM-PEM2 PREMIUM	REM Kit -3.062" carrier bearings with stock support and crush sleeve
REM-PEM3 PREMIUM	REM Kit -2.891" carrier bearings with stock support and solid pinion spacer
REM-PEM4 PREMIUM	REM Kit -3.062" carrier bearings with stock support and solid pinion spacer
REM-PEM5 PREMIUM	REM Kit -3.062" carrier bearings with Daytona support and solid pinion spacer
REM-PEM6 PREMIUM	REM Kit -3.25" carrier bearings with large 35 spline support and solid pinion spacer
REM-PEM7 PREMIUM	REM Kit -3.25" carrier bearings with Daytona support and solid pinion spacer
REM-PEM8 PREMIUM	REM Kit -2.891" carrier bearings with Daytona support and solid pinion spacer
REM-PEM9 PREMIUM	REM Kit -3.25" case with adaptor races, 2.891" carrier bearings, Daytona support and solid pinion spacer
REM-PEM10 PREMIUM	REM Kit -3.812" carrier bearings with large 35 spline support and solid pinion spacer
REM-PEM11 PREMIUM	REM Kit -3.25" case with adaptor races, 2.891" carrier bearings, stock support and solid pinion spacer



REM ® ISF Microfinished Quick Change Rear Ends Bearings and Races

REM-P27820OD	quick change pinion race - holds 2 bearings
REM-P27880	quick change pinion tapered roller bearing
REM-P27880Kit	quick change pinion bearing kit - 2 bearings, race and spacer
REM-P362A	quick change race for P368S and P368
REM-P368A	quick change 2.000" spool bearing
REM-P368S	quick change 2.032" spool bearing



Cryogenic Treatment

Cryogenic Treatment is the process of treating work pieces to cryogenic temperatures (i.e. to -190°C (-310°F)) in order to remove residual stresses and improve wear resistance on steels. This is an option when you purchase a ring & pinion or an assembled center section from PEM. Cryogenic Treatment will add approximately 10-14 days to your order.

- Ring & Pinion up to 10" OD \$ 75.00
- Valve Springs for two Sets \$ 75.00
- Minimum Charge for Cryo \$ 75.00
- We will quote Cryo Treatment on other parts not listed.



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**Pg.
19**

Spools, Mini Spools and Drive Flanges



Light 9 inch Ford Spool
The industry standard for dirt track racing.
1.78" journal size

FS28 6.25 lbs. 28 spline
FS31 6.05 lbs. 31 spline



Drag Spool 9 inch Ford
strong tapered body.
1.78" journal size

FS28DS 8.55 lbs. 28 spline
FS31DS 8.30 lbs. 31 spline



Scalloped LW 9 inch Ford Spool
9 inch Lightened in the ring gear bolt pattern.
1.78" journal size

FS28LW 6.00 lbs. 28 spline
FS31LW 5.85 lbs. 31 spline



Drag Spools 9 inch Ford
1.78" journal size

FS933LW 33 spline
FS35SB 35 spline

2.00" journal size
FS35LB 35 spline
FS940LW 40 spline



Scalloped 9 inch Ford Spool
1.78" journal size

FS31 STRGF 7.5 lbs 31 spline
Thicker Ring Gear Flange



Ford 8.8 inch Spool

FS8831 Ford 8.8" 31 spline spool for upgrading your 8.8" to 31 spline.



Chrysler Spool

FS87530 8.75" Chrysler Full Spool 30 spline.



GM Spools

FS1230 30 spline 12 bolt GM Spool 8.5" 10 bolt GM
FS8530 8.5" 10 bolt 30 Spline
* All our GM spools fit Car rear ends, not trucks.



Dana 44 Spool

FSD4430 Dana 44 Full Spool 30 spline.
Ratio 3.92 up to 5.89.



9 inch Ford Mini Spool

MS928 28 spline
MS931 31 spline

F9tracloc crossshaft
9 inch Ford Mini Spool cross pin and Trac Loc cross shaft .750" OD

Dana60DF

Front Drive Flange Kit with 35 spline drive slugs

- Replace Locking Hubs
- Fits Dana 60 Front Axles (not super duty)



4 Piece Mini Spools

MS7526 7.5" GM 26 spline

MS7528 7.5" GM/ Ford 28 spline (Ford axle to 7.5" GM Center section)

MS8528 8.5" GM 28 spline

MSD44-30 Dana 44 -30 spline



Ford Trac Loc and Trac Loc Rebuild Parts



Ford Trac Loc Unit

OEM style with a stronger forged steel hat. Complete new unit assembled at our plant with USA manufactured clutch friction materials. 1.78" journal size.

Available 9 inch Ford.

F9TracLoc 28 spline 9 inch Ford

F9TracLoc 31 spline 9 inch Ford

Friction modifier required.

F9tracloc fric mod friction modifier

TL Rebuild Kits fit both 8" & 9" Ford

F9Traclocset 9 piece clutch set

F9TraclocReBKit basic rebuild kit includes; clutch set, springs, guides, housing gasket and friction modifier

F9TracLocRK28 complete internal kit 28 spline

F9TracLocRK31 complete internal kit 31 spline

F9TracLocHAT forged hat only, replaces OEM cast hat on a stock Ford unit



9 inch Ford Rear End Bearing and Installation Kits



9 inch Ford Install Kit

with ring & pinion bolts, 5 hole support shims, o-ring, seal, pinion nut, housing gasket, thread locker and marking compound.

F9IK with crush sleeve

F9IK SS with solid pinion spacer kit

9 inch Ford Deluxe Install Kit

with pinion bearings and races, seal, pilot bearing, ring & pinion bolts, 5 hole support shims, o-ring, pinion nut, housing gasket, thread locker and marking compound.

F9DIK with crush sleeve

F9DIK SS with solid pinion



9 inch Ford Bearing Kit

with pinion bearings and races, carrier bearings and races, pinion seal and pilot bearing.

F9BK1625ID2891ODPremium
1.625" ID 2.891" OD premium bearings

F9BK1781ID2891OD 1.781" ID 2.891" OD neutral bearings

F9BK1781ID2891ODPremium 1.781" ID 2.891" OD premium bearings



Ring & Pinion Kit

with 5 hole support shims, o-ring, pinion nut and housing gasket.

F9RPKCS with crush sleeve

F9RPKSS with solid spacer



HH7162034G8K

3/4" ring gear bolt, 10 pc kit- Full Spool

HH716201G8K

1" ring gear bolt, 10 pc kit- True Trac and Heli Trac

HH71620114G8K

1.25" ring gear bolt, 10 pc kit- Trac Loc

Daytona Pinion Support Kits



F9PSSBRK Daytona pinion bearings, races, seal, o-ring and solid spacer kit

9 inch Ford Solid Pinion Spacer Kit with shims

F9SPSK solid spacer with 5 shims

F9SPSKL longer spacer for Daytona Support with 5 shims

F9SPSK35 adjustable 2 piece spacer for large 35 spline pinion with 6 shims



F9PSLBRK large pinion bearings, races, seal, o-ring and adjustable 2 piece spacer kit for large 35 spline pinion



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Bearings and Complete Install Kits



9 inch Complete Install Kits Neutral Brand

All kits include; bearings, races, ring gear bolts, pinion seal, pilot bearings, o-ring, pinion nut, housing gasket, support shim pack, thread locker and marking compound

PEM1 2.891" carrier bearings with stock support and crush sleeve

PEM2 3.062" carrier bearings with stock support and crush sleeve

PEM3 2.891" carrier bearings with stock support and solid pinion spacer

PEM4 3.062" carrier bearings with stock support and solid pinion spacer

9 inch Premium Complete Install Kits

Premium Koyo or Timken bearings and races (depending on the size). All kits include; bearings, races, ring gear bolts, pinion seal, pilot bearings, o-ring, pinion nut, housing gasket and support shim pack.

PEM1 Premium 2.891" carrier bearings with stock support and crush sleeve

PEM2 Premium 3.062" carrier bearings with stock support and crush sleeve

PEM3 Premium 2.891" carrier bearings with stock support and solid pinion spacer

PEM4 Premium 3.062" carrier bearings with stock support and solid pinion spacer

PEM5 Premium 3.062" carrier bearings with Daytona support and solid pinion spacer

PEM6 Premium 3.25" carrier bearings with large 35 spline support and solid pinion spacer

PEM7 Premium 3.25" carrier bearings with Daytona support and solid pinion spacer

PEM8 Premium 2.891" carrier bearings with Daytona support and solid pinion spacer

PEM9 Premium Complete Bearing Install Kit for 3.25" case, 2.89" carrier bearings, 31 spline and Daytona support with PRace adaptor races

PEM10 Premium 3.812" carrier bearings with large 35 spline support and solid pinion spacer

PEM11 Premium 3.25" case with adaptor races, 2.891" carrier bearings, stock support and solid pinion spacer

CSO2200 UPGRADE 3/4" to 1" ring gear bolts for a True Trac or Heli-Trac

CSO2300 UPGRADE 3/4" to 1 1/4" ring gear bolts for a Trac Loc or Open Differential

Premium Bearings and Races

KHM89410 Daytona pinion support rear race

KHM89443 Daytona pinion support rear bearing

KLM102910 1.781" ID x 2.891" OD carrier race

KLM102949 1.781" ID x 2.891" OD carrier bearing

KLM104911 2.00" ID x 3.250" OD race

KLM104949 2.00" ID x 3.250" OD bearing

KLM603011 1.781" ID 3.062" OD race

KLM603049 1.781" ID 3.062" OD bearing

KM88010 stock pinion race

KM88048 stock pinion bearing

T2729 35 spline pinion front race

T2788 35 spline pinion front bearing

Premium Bearings and Races Continued

KHM804810 35 spline pinion rear race

THM804846 35 spline pinion rear bearing

TLM501310 1.625" ID x 2.891" OD carrier race

TLM501349 1.625" ID x 2.891" OD carrier bearing

Neutral Brand Bearings and Races

PHM89410 Daytona pinion support race rear

PHM89443 Daytona pinion support bearing rear

PLM102910 1.781" ID x 2.891" OD carrier race

PLM102949 1.781" ID x 2.891" OD carrier bearing

PM88010 stock pinion race

PM88048 stock pinion bearing

BA1535TAV pilot bearing

PRace adaptor race for carrier bearing (3.250" to 2.891")



9 inch Ford Aftermarket Cases and Pinion Supports

PEM BRUTE 3.25 Nodular Iron 9 inch Ford Case

36 lbs. for extreme
duty drag racing and
off road applications.



DHNI3250 3.250"
carrier bearing size

PEM Nodular Iron 9 inch Ford Case

29 lbs. standard weight
case for street
performance and circle
track racing.



DHNISW2891 2.891" carrier bearing size
DHNISW3062 3.062" carrier bearing size

NEW! PEM 3.25 Aluminum Bolt Thru 9 inch Ford Case

3.250" carrier bearing size bolt thru aluminum
case for drag racing and other heavy duty
applications. These can be used with either a 5 or
10 bolt pinion support.

DHA3250BTC



9 inch Daytona 5 bolt Pinion Supports



F9PSSB aluminum Daytona pinion support
F9PSSBR above with races installed



F9PSLB aluminum large pinion support
F9PSLBR above with races installed

F9PSCD nodular iron Daytona pinion support
F9PSCDR above with races installed



PEM Stock Style Pinion Support

New nodular iron pinion
support for stock size
bearings

F9PSCStock



Aluminum 10 Bolt 35 spline Pinion Support

Fits PEM, Moser and Yukon Cases with 10
bolts; for PRO 910 35 spline large pinion
shaft.

F9PS3510 bare support
F9PS3510SP 6 pc shim pack only
F9PS35 Stud Kit 10 pc kit includes; 10
studs with washers and nuts, (5 of 7/16"
& 5 of 3/8")

F9PS3510Kit Ford 9 inch alum. 10
bolt pinion support (no races) with 6 pc
shim pack and stud kit



P. 636.629.6200 F. 636.629.6207

Rear End Yokes

Ford 9 inch Cast Yokes



YF91330 cast 1330 Cleveland series (3 5/8" wide x 1 1/8" cap) 4" tall with dust shield

YF91330Long cast 1330 Cleveland series (3 5/8" wide x 1 1/8" cap) 5" tall with dust shield (shown)

YF91330L Day cast 1330 Cleveland series (3 5/8" wide x 1 1/8" cap) 5" tall with dust shield, cut for Daytona Support

Ford 9 inch Forged Yokes



YF91310S forged 1310 series 4" tall with dust shield

YF91310S Day forged 1310 series 4" tall, cut for Daytona support (shown)

YF91330S forged (3 5/8" wide x 1 1/8" cap) 1330 Cleveland series 4" tall with dust shield



1350 9 inch Ford Forged Yokes

YF9135028 28 spline 1350 series (3 5/8" wide x 1 3/16" cap) with dust shield

YF9135035 large pinion 35 spline 1350 series (3 5/8" wide x 1 3/16" cap)



1350 9 inch Ford Billet Yokes



YF9135028B 28 spline 1350 series (3 5/8" wide x 1 3/16" cap)

YF9135035B large pinion 35 spline 1350 series (3 5/8" wide x 1 3/16" cap)

Machined from 4140 Chrome-Moly



Chrysler 8.75 inch Yokes

Y875-7290 29 spline 7290 series (3 5/8" wide x 1 1/8" cap)

Y875-1350 29 spline 1350 series (3 5/8" wide x 1 3/16" cap)

Dana 60 Yoke

YD601350 29 spline 1350 series (3 5/8" wide x 1 3/16" cap)



All rear end yokes on this page use u-bolts, not straps for u-joint retention.

Ford 8.8 inch Yokes



YF881330 1330 Cleveland series (3 5/8" wide x 1 1/8" cap) with dust shield

YF881350 1350 series (3 5/8" wide x 1 3/16" cap) with dust shield



GM Forged Yokes



YC121350 1350 series 30 spline GM 12 bolt (3 5/8" wide x 1 3/16" cap)

YGM1350 1350 series GM 8.5 inch 10 bolt (3 5/8" wide x 1 3/16" cap)

Aluminum Rear Yoke Girdles

G1310K 1310 series with aluminum caps and hardware

G1350K 1350 series with aluminum caps and hardware



U Bolts for Rear End Yokes

N1-0089L 1310 series 1 1/16" cap

S3-94-18X 1350/1410 series 1 3/16" cap

N1-0189 1330 Cleveland series 1 1/8" cap



Ford 9 inch Yoke Repair Sleeve

YF9SS presses on 28 spline 9 inch Ford yoke and repairs worn seal area



Transmission Slip Yokes and U-Joints

Quick Release 1350 Slip Yokes

CNC machined and heat treated 4140 steel forgings for greater strength. They feature a "Quick Release" cap design and the seal surface is specially ground to a 16 micro finish for a perfect fit.



Manufactured in the USA.

- INSY-350-1350Q** fits TH350, PG, 700R, 4L60E GM
INSY-400-1350Q fits TH400, 4L80E GM 32 spline
INSY-727-1350Q fits NP833, 727, Liberty, Doug Nash and Richmond 5 Speed Chrysler
INSY-904-1350Q fits A904, Small NP833, 4SPD Chrysler
INSY-AOD-1350Q fits 4R70LW and Big Bearing Ford AOD 28 spline
INSY-C4-1350Q fits C4, T5, Small Bearing Ford AOD 28 spline
INSY-C6-1350Q fits C6 & Tremec Ford 31 spline

OEM Style Cast Slip Yokes

- S2-3-6081X** 1310 GM Slip Yoke 5.50" 27 spline
S3-3-4281X 1350 GM Slip Yoke 6.938" 27 spline
N2-3-10431X 1310 GM Slip Yoke 5.50" 32 spline
N3-3-2431X 1350 GM Slip Yoke TH400 x 5.50"
N2-3-4871 1310 Ford Slip Yoke 6.03" 28 spline
N2-3-15631X 1310 Ford Slip Yoke 7.00" 31 spline
S2-3-12051X 1330 GM Slip Yoke 6.8" 27 spline
S2-3-5981X Ford 1330 Slip Yoke 28 spline fits AOD, C4 and T5 5.97" Long x 1.497" Seal Diameter
S2-3-6041X Ford C6/T45 Slip Yoke 6.03" 31 spline
N3-3-4271X 1350 GM Slip Yoke TH350 x 6.0"



NEAPCO Conversion U-Joints

- N1-5349** 1310/1330 Cleveland greaseable conversion 3 7/32" x 1 1/16" to 3 5/8" x 1 1/8" cap
N3-3130 1310/3R GM Metric conversion
N2-4900 1330/1330 Cleveland conversion(1 1/8" cap)
N2-3050 1330/1350 greaseable conversion 3 5/8"x 1 1/16" to 3 5/8" x 1 3/16" cap
N2-4953 1350/Cleveland greaseable conversion 3 5/8" x 1 3/16" to 3 5/8" x 1 1/8" cap
N2-1569 1330/3R greaseable conversion
N2-1153 1350/3R greaseable conversion
N2-1435 1350/1410 solid cross conversion
N3-3140 1310/1350 greaseable conversion

NEAPCO Performance U-Joints

- N1-0153P** 1 1/16" cap 1310 Solid U-joint
N2-4800P 1 1/16" cap 1330 Solid U-joint
N2-0053P 1 3/16" cap 1350 Solid U-joint
N2-0054P 1 3/16" cap 1410 Solid U-joint

NT Series Black Chrome Moly Forged Yokes

Manufactured in the USA.

- N T2-3-6081HP** 1310 - PG TH350 5.5" 27 spline
N T2-3-10431HP 1310 - TH400 5.5" 32 spline
N T2-3-13131HP 1310 - TH400 4.88" 32 spline
N T2-3-4871HP 1310 - C4 and T5 6.0" 28 spline
N T2-3-8251HP 1310 - C4 and T5 6.5" 28 spline
N T2-3-5981HP 1330 - C4 and T5 5.91" 28 spline
N T2-3-6041HP 1330 - C6 6.0" 31 spline
N T2-3-10831HP 1330 - TH400 6.76" 32 spline
N T3-3-2491HP 1350 - C6 & Tremec 6.44" 31spline
N T3-3-14061HP 1350 - 4R70W 6.63" 28spline
N T3-3-8251HP 1350 - C4 6.5" 28 spline
N T3-3-4281HP 1350 - PG TH350 6.94" 27 spline
N T3-3-6081HP 1350 - PG TH350 5.5" 27spline
N T3-3-5551HP 1350 - TH400 7.94" 32spline
N T3-3-2431HP 1350 - TH400 5.5" 32 spline
N T3-3-2431CBHP 1350 - TH400 5.5" 32 spline Counter Bored (bolt in yoke replacement)
N T3-3-6081H 1350 - PG TH350 27 spline for roller bearing tail housing
N T3-3-2431H 1350 - TH400 32 spline for roller bearing tail housing
N T2-3-6081HP8XL 1310 for circle track dirt racing, extra clearance 8" center of u-joint to end



YSYXL8F

Forged 8 inch Extra Travel Transmission Slip Yoke for Dirt Track Racing. 1310 series with 27 spline for Bert, Brinn, and Falcon racing transmission.

REM-YSYXL8F

REM Micro Finished Forged 8 inch Extra Clearance Transmission Slip Yoke for Dirt Track Racing.

YSYXL9F

9" center u-joint to end, REM polished

YSYXL10F 10" for Jerico Dirt ransmission, REM polished (shown)



SPICER U-Joints

- S5-1310X** 1310 solid cross 3 7/32" x 1 1/16" cap
S5-1330X 1330 solid cross 3 5/8" x 1 1/16" cap
S5-1350X 1350 solid cross 3 5/8" x 1 3/16" cap
S5-1410X 1410 solid cross 4 3/16" x 1 3/16" cap
S5-153X 1310 greaseable 3 7/32" x 1 1/16" cap
S5-213X 1330 greaseable 3 5/8" x 1 1/16" cap
S5-178X 1350 greaseable 3 5/8" x 1 3/16" cap
S5-160X 1410 greaseable 4 3/16" x 1 3/16" cap

S5-134X 1310/1330 solid cross 3 7/32" x 1 1/16" to 3 5/8" x 1 1/16" cap



P. 636.629.6200

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**Pg.
25**

Transmission and Differential Flange Yokes



Aluminum Flange Yokes

- N T2-2-1309A** 1310 Aluminum Flange Yoke, 3.2" bolt circle, 1.96" pilot
- N T2-2-1369A** 1330 Aluminum Flange Yoke, 4.25" bolt circle, 2.0" pilot
- N T2-2-949A** 1330 Aluminum Flange Yoke, 3.5" bolt circle, 2.0" pilot
- N T3-2-119A** 1350 Aluminum Flange Yoke, 3.75" bolt circle, 2.75" pilot
- N T3-2-1579A** 1350 Aluminum Flange Yoke, 4.25" bolt circle, 2.0" pilot
- N T3-2-1719** 1480 Aluminum Flange Yoke, 4.25" bolt circle, 2.679" pilot
- N T3-2-1859A** 1350 Aluminum Flange Yoke, 4.75" bolt circle, 2.95" pilot
- N T3-2-1869** 1480 Aluminum Flange Yoke, 4.75" bolt circle, 2.955" pilot
- N T3-2-949A** 1350 Aluminum Flange Yoke, 3.5" bolt circle, 2.0" pilot



Aluminum Adapter Flange Yokes

N T35-ALFY-07 1350 Aluminum 6 Bolt Adaptor Flange Yoke 94mm x 4251 inch OD Fits inch15-later Dodge Hellcat; inch13-later Dodge SRT 392; Scat Pack Challenger, TR6060, Chrysler 300; BMW 210mm with 94mm bolt circle dia. pinion flange; 09-15 Cadillac CTS-V sedan coupe and wagon with 6L90; and ZF8HP90.

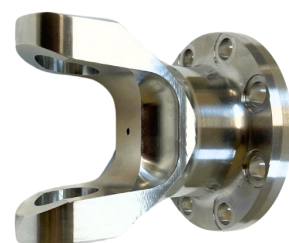
N T35-ALFY-08 1350 Aluminum 8 bolt Adaptor Flange Yoke 88mm Hellcat Fits inch15-later Dodge Hellcat; inch13-later Dodge SRT 392; Scat Pack Challenger and Chrysler 300.

N T35-ALFY-09 1350 Aluminum 6 Bolt adaptor Flange Yoke Kit 95mm Fits Ford Mustang with 95mm bolt circle dia. pinion flange (automatic 05-14, manual 05-19).

N T35-ALFY-10 1350 Aluminum 6 Bolt Adaptor Flange Yoke Kit 93mm Fits Ford Mustang with 93mm bolt circle dia. pinion flange (automatic 15-19).

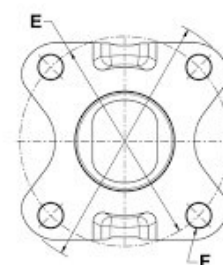
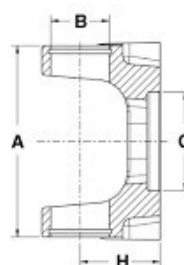
N T35-GMFD-01 1350 3 Bolt Adaptor Flange Yoke

N T35-GMFD-01K 1350 3 Bolt Adaptor Flange Yoke Kit 110mm Fits 6L80, 6L90, 8L90, 10L80 units, TR6060, TR3160 manual units. Also fits 05-06 Pontiac GTO (differential side).



How to measure bolt circle diameter as well as pinion and output flange bolt hole diameters to determine if the yokes will fit your build.

- A. U-joint width
- B. U-joint cap diameter
- E. Bolt Circle
- F. Hole/ Thread size
- G. Pilot Diameter
- H. Flange face to Center Line



Forged and Cast Flange Yokes



AAM 40019801 1344/3R Serrated Flange Yoke- Dodge

AAM 40038359 1355 Serrated Flange Yoke- Dodge

AAM 40055527 1415 Flange Yoke- RAM *Rectangle bolt circle

AAM 40055528 1485/1480 Flange Yoke

N2-2-329 1310 Flange Yoke 3.125" bolt circle 2.375" pilot

N2-2-479 1310 Flange Yoke 3.750" bolt circle 2.750" pilot

N3-2-1579F 1350 Flange Yoke 8.8 inch Ford 4.25" bolt circle with 2.0" pilot

N3-2-1709 1410 Flange Yoke LM Fords 4.25" bolt circle 2.68" pilot

WW2-2-949 PEM 1330 Cast Flange yoke for Mustang FMS shafts



OTHER FLANGES AND ADAPTERS AVAILABLE

Steel Drive Shafts

2.0" Steel Drive Shaft with Greaseable Spicer U-Joints

2.0" OD x .065" wall CHROME MOLY Drive Shafts

Available with 8", 9" and 10" long extra clearance transmission slip yokes

- Great for crate engine racers
- 2.0" OD x .065" wall
- Up to 33" length

DS-2-###-065MJ with 1310 series u-joints

DS-2-###-065M-800 with 8.0" extra clearance yoke with 1310 series u-joints, balanced assembly



These lightweight chrome moly shafts are only to be run with LIMITED HP engines.

2.0" OD x .083" wall DOM Drive Shaft
Available with 8", 9" and 10" long extra clearance transmission slip yokes

DS-2-###-083J with 1310 series u-joints

DS-2-###-083-800 8.0" yoke with 1310 series u-joints

Up to 42" center to center

Specify center to center u-joint length in inches.

2.0" OD x .120" wall DOM Drive Shaft
Available with 8", 9" and 10" long extra clearance transmission slip yokes

DS-2-###-120J 1310 series u-joints

DS-2-###-120-800 8.0" yoke with 1310 series u-joints

Starting at 42" center to center up to 52.5"

Specify center to center u-joint length in inches.

All Drive Shafts Manufactured in house at PEM

2.5" OD x .083" wall DOM Drive Shaft
Available with 8", 9" and 10" long extra clearance transmission slip yokes

DS-25-###-083J 1310 series u-joints

DS-25-###-083-550 1310 series with 5.5" 27 spline slip yoke

Up to 56.5" center to center

Specify center to center u-joint length in inches.



CUSTOM Steel Drive Shafts Available

- Specify tubing 1 3/4" to 5.00" OD
- Specify length
- Specify u-joint size: 1310, 1330, 1350, 1410 or 1480
- Specify slip yoke

Custom Order Form on page 47



**REMEMBER TO ORDER YOUR DRIVE SHAFT WITH A SLIP YOKE
SO YOU GET A BALANCED ASSEMBLY!**

**Chrome Moly 1350 series Drive Shaft for
Drag Racing and Extreme Loads**

3.0" OD x .083" wall Chrome Moly

- Chrome moly weld yokes
- Specify length
- Specify outside diameter
- Specify slip yoke
- 1350 Spicer solid u-joints

Custom Order Form on page 47



Chrome Moly with Spicer Ends

3.0" OD x .083" wall Chrome Moly

- Spicer cast weld yokes
- Specify length
- Specify outside diameter
- Specify slip yoke
- 1350 Spicer solid u-joints

Custom Order Form on page 47

P. 636.629.6200

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Carbon Fiber Drive Shafts

CF-2-###-125J 2.25" OD x .125" wall

2.25" OD shafts are for UMP, USMTS and USRA style Modifieds and 8" wide Tire Race Cars



CF-25-###-125J 2.75" OD x .125" wall

Crate Late Models 602, 604 or CT525



CF-25-###-155J 2.88" OD x .155" wall

Dirt Late Models needing more clearance around tunnel and drive shaft loops



CF-3-###-125J 3.25" OD x .125" wall

Dirt Late Models and Stock Cars with longer lengths up to 55" c to c



Drive shafts are available with and without transmission slip yokes

Specify center to center u-joint length in inches

Carbon fiber driveshafts are a better choice for all types of racing. They are lighter than steel driveshafts and they disintegrate if there is a driveline failure. Rather than producing sharp edges that could injure the driver or destroy other parts of the car.

All Drive Shafts Manufactured in House at PEM

LARGER PEM CARBON FIBER DRIVE SHAFTS



APPLICATIONS:

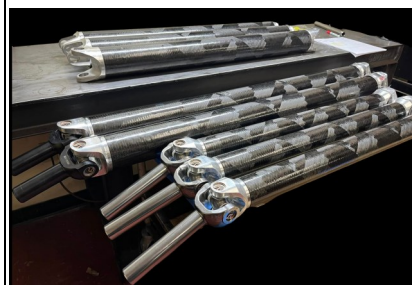
- Drag Racing
- Truck Pulling
- Street Performance
- Road Racing
- Industrial

Available sizes:

CF-3-###-1350J	3.25" OD x .125" wall with 1350 solid u-joints
CF-35-###-1350J	3.75" OD x .125" wall with 1350 solid u-joints
CF-35-###-1410J	3.75" OD x .125" wall with 1410 solid u-joints
CF-35-###-1480J	3.75" OD x .125" wall with 1480 solid u-joints
CF-4-###-1350J	4.25" OD x .125" wall with 1350 solid u-joints
CF-4-###-1410J	4.25" OD x .125" wall with 1410 solid u-joints
CF-4-###-1480J	4.25" OD x .125" wall with 1480 solid u-joints
CF-5-###-1410J	5.25" OD x .125" wall with 1410 solid u-joints
CF-5-###-1480J	5.25" OD x .125" wall with 1480 solid u-joints
CF-5-###-1550J	5.25" OD x .125" wall with 1550 solid u-joints

Drive shafts are available with and without transmission slip yokes

Specify center to center u-joint length in inches



Aluminum Drive Shafts

3.0" OD X .125" wall Aluminum Drive Shaft 6061 T6

Available with No slip yoke OR choose 5.5" or 8" long transmission slip yoke.

DSA-3-###-125J 1310 series greaseable Spicer u-joints

DSA-3-###-125-550 5.5" 27 spl yoke with 1310 series u-joints

DSA-3-###-125-800 8.0" 27 spl yoke with 1310 series u-joints

Specify center to center u-joint length in inches up to 54" c to c.



**Great for
Asphalt Late Models**

Extreme Duty .125" wall Aluminum Drive Shafts - Drag Racing and Extreme Loads

3.5" x .125 wall 6061 T6 Aluminum Tubing up to 72" c to c

4.0" x .125 wall 6061 T6 Aluminum Tubing up to 72" c to c

5.0" x .125 wall 6061 T6 Aluminum Tubing up to 84" c to c

Custom Order Form on Catalog page 47



3.5" and 4.0" OD Aluminum Drive Shafts - Street Performance and Trucks

DSA-35-1330J 3.5" OD x .114" wall with 1330 u-joints up to 60" c to c

DSA-35-1350J 3.5" OD x .114" wall with 1350 u-joints up to 60" c to c

DSA-40-1350J 4.0" OD x .087" wall with 1350 u-joints up to 73" c to c

DSA-40-1410J 4.0" OD x .087" wall with 1410 u-joints up to 73" c to c

**Purchase or send your transmission slip yoke
and we will build as a balanced assembly.**

Specify center to center u-joint length in inches.



Mustang OEM Replacement Aluminum Drive Shafts

3.5" OD x .114" wall 6061 T6 Aluminum

1979-1995 Mustang

DSA-35-1330-31-42.5 42.5" c to c Aluminum Drive shaft, 1330 U-Joint, Ford Mustang with 31 spline slip yoke and 8.8" rear mating flange

DSA-35-1330-27-43.5 43.5" c to c Aluminum Drive shaft, 1330 U-Joint, Ford Mustang with 27 spline slip yoke and 8.8" rear mating flange

DSA-35-1330-31-43.5 43.5" c to c Aluminum Drive shaft, 1330 U-Joint, Ford Mustang with 31 spline slip yoke and 8.8" rear mating flange

DSA-FMS-4602G-28 45.5" c to c Aluminum Drive shaft, 1330 U-Joint, Ford Mustang with 28 spline C4/T5 transmission slip yoke and 8.8" rear mating flange

DSA-FMS-4602J-31 45.5" c to c Aluminum Drive shaft, 1330 U-Joint, Ford Mustang with 31 spline transmission slip yoke for C6/T45 Tremec and 8.8" rear mating flange

2003-2004 Cobra

DSA-35-1350-27-125-44.5 44.5" c to c Aluminum Drive shaft, .125" wall, 1350 U-Joint, Ford Mustang with 27 spline slip yoke and 8.8" rear mating flange

Upgrades available for Aluminum Mustang Drive Shafts

N T2-2-949A 1330 Flange Yoke Aluminum 2" pilot 3 1/2" B.C.

N T3-2-949A 1350 Flange Yoke Aluminum 2" pilot 3 1/2" B.C.

N T3-2-1579A 1350 Flange Yoke Aluminum 2" pilot 4 1/4" B.C.



Camaro and Firebird Aluminum OEM Replacement Drive Shafts

3.0" OD x .125" wall Aluminum 6061 T6

DSA-6769-400 DS Alum 1967-69 Camaro/Firebird 400, 49 1/2" c to c with 32 spline transmission slip yoke

DSA-6769-350 DS Alum 1967-69 Camaro/Firebird 350, 49 7/8" c to c with 27 spline transmission slip yoke

DSA-8200 DS Alum 1982-2000 Camaro/Firebird 00, 41 5/8" c to c with 32 spline transmission slip yoke



P. 636.629.6200

F. 636.629.6207

**Pg.
29**

Offroad, Jeep and CV Style Drive Shafts

PEM offers stock replacements or complete custom builds based off the needs of your off-road vehicle. From mall crawler to rock bouncer, PEM can combine larger CV heads, spline sizes, heavier wall tube, t-case yokes and differential yokes to create exactly what you need. Give us a call to get your build started.

- **DS-JK1310FK Stock** Front JK drive shaft replacement kit includes: transfer case, yoke and greaseable 1310 u-joints
- **DS-JK1310RK Stock** Rear JK drive shaft replacement Kit includes: transfer case yoke, differential yokes, hardware and greaseable 1310 u-joints
- **DS-JK1310SFK** Front JK drive shaft replacement kit includes: transfer case and differential yokes, with solid 1310 u-joints and full spline stub shaft
- **DS-JK1310SRK** Rear JK drive shaft replacement kit includes: transfer case, differential yokes, solid 1310 u-joints and full spline stub shaft
- **DS-JK1350FK** Front JK drive shaft only includes: transfer case flange, differential yoke, solid 1350 u-joints and full spline stub shaft
- **DS-JK1350RK** Complete Rear JK drive shaft includes: transfer case flange, differential yoke, solid 1350 u-joints, hardware and full spline stub shaft
- **JL/JT Front drive shaft kits available in 1310 and 1350**
- **JL/JT Rear drive shaft kits available in 1310 and 1350**
- **Custom built shafts for all offroad applications in all u-joint sizes and tube dimensions.**



PEM Gear Sets, Spools and Spindles

Dana and Revolution Ring & Pinions

**FULL RANGE OF
SPICER &
REVOLUTION
AFTERMARKET
GEARS AND
BUILD KITS**



Spools & Mini Spools

FSD6030-1 Dana 60 Full Spool 4.56 and up 30 spline
FSD6035-6 Dana 60 Full Spool 4.10 and down ratio 35 spline
MSD44-30 30 Spline Mini Spool for Dana 44
FSD4430 Dana 44 Full Spool 30 spline 3.92 thru 5.89 ratios
Full line of Ford 31/ 35/ 40 spline spools

Dana 44 Front Spindles

SpD44L77-87 Dana Late 77-87 Chevy and GMC 1/2ton K10 Pickup, K5 Blazer, Jimmy and Suburban, Dana 44 or Corporate 8 1/2", 88-91 Chevy Blazer, Suburban, GMC Jimmy
SpD4473-76.5 Dana 44, small bearing 73-76.5 Chevy and GMC 1/2 ton K10 pick up, K5 Blazer, Jimmy and Suburban



DANA SPICER/ NEAPCO / AAM / RCV / ROCKWELL

Drive Shaft Components

CV Heads, Flange Yokes, Companion Flanges, Slip Yokes, End Yokes, Tube Yokes, Stub Shafts, Yoke Shaft, Carrier Bearings, CV Components, Universal Joints and Tube sizes ranging from 1.25 - 5" OD with wall thickness up to .250" thick. From DOM Steel, Chrome Moly or Aluminum



Transfer Case, Flange and Differential Yokes

- SY1310-3520** 1310-27 Spline High Angle 22 Degree Non CV Slip Yoke
SY1310-3505 1310-27 Spline CV Slip Yoke, Uses Double Cardan CV Std Components
EY1410-1026 1410 10.25 U-Bolt Early 83-92
EY1410-1029 1410 10.5 U-Bolt Late 93+
EY1410-6050 1410 DANA 60-61-70 U-Bolt Style Differential Yoke
N2-4-JK01 1310 T-Case Yoke U-Bolt Style JK 07-Newer
N2-4-JK02 1310 Diff Yoke (Rear) U-Bolt Style JK 07-Newer
N2-4-JK03 1310 T-Case Yoke CV Style JK 07-Newer
N3-4-JK04 1350 Jeep JK Differential Yoke (Rear)
N3-1-JK05 JK07-17 T-Case Rear 1350 Flange
N3-1-JK07 1350 Companion Flange Front Transfer Case JK07-Newer
N3-4-JK08 1350 Pinion Yoke
YD601350 1350 Dana 60 1350 Forged Yoke
N2-4-8091X 1310 End Yoke Dana 44 1.146-26 Spline
AAM 40055527 1415 Flange Yoke- RAM
AAM 40019801 1344/3R Serrated Flange Yoke - Dodge
AAM 40055528 1485/1480 Flange Yoke
N3-2-1579 1350 Flange Yoke 4.25" B.C. 2.00" pilot
YF881330 1330 Ford 8.8" Yoke Forged
YF881350 1350 Ford 8.8" Yoke Forged
YC12B1350 1350 Chevy 12 Bolt Forged Yoke
YGMC10B1350 1350 GM 10 Bolt Forged

Axles, Side by Side and UTV Parts

RCV Performance Ultimate CV Axles

Simply replace your weak u-joint axle shafts with a high-strength constant velocity design. Tests prove Ultimate CV Axles to be twice as strong as OEM axle shafts, and they are just as tough at a straight angle as they are at extreme angles - where u-joints are the weakest. Ultimate CV Axles also eliminate u-joint binding to allow smooth transfer of power to the ground. Ultimate CV Axles are low maintenance and operate with a smoothness you can feel - whether off road or on the street.



DANA 30, 44 and 60 axles
CHROME MOLY and 1541

We can repair, build and balance Side by Side drive shafts using OEM or chrome moly components. We can also upgrade you to a heavier than stock tube.



CV JOINT KITS

ATV & UTV CV Joint Kits

CAGES AND INNER RACES

HALF SHAFTS

ATV & UTV Half Shafts

CV REBUILD KITS

ATV & UTV CV Joint Rebuild Kits

U-JOINTS

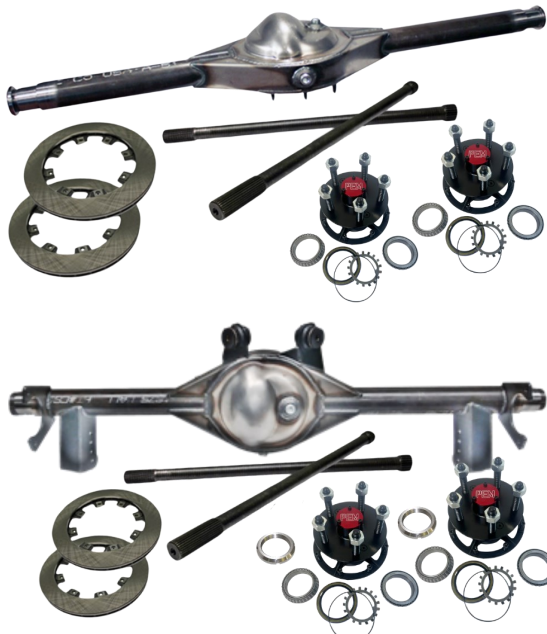
ATV & UTV U-Joints

AXLES AND ULTIMATE BALL JOINTS

P. 636.629.6200

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2.5 inch GN 9 inch Ford Floater Rear Ends



9 inch Ford GN Floater Kits

Housing Kit with Upgraded HNF9 center

Solid wide 5 axles, GN LW hubs kits with .810" wide rotors. Specify 28 or 31 spline axles and specify width and offset.

HN300300 60" new centered, housing only

HNK3003004 60" centered housing kit with 5x4 3/4 hubs

HNK3003005 60" centered housing kit with 5x5 hubs

Options for Floater Housings and Kits listed below

78-88 GM Midsize Metric 9 inch Ford Floater Kit

Housing Kit with Upgraded HNF9 center

Trailing arm mounts installed, solid wide 5 axles, GN hub kits with .810" wide rotors. Specify 28 or 31 spline axles and specify width and offset.

Now with our standard 4 degrees down pinion angle.

HN300300 60" new centered, housing only

HNMK3003004 60" centered with 5x4 3/4 hubs

HNMK3003005 60" centered with 5x5 hubs

Options for Floater Housings and Kits listed below

GN 9 inch Ford GM Metric Floater Housings are available from 58" to 62" track width

NOTE: GM 58" may require some fabrication on frame for clearance

2.0" GN Howe/Vogel and wide 5 Floater Housings also available...

Custom Order Form for 9 inch Ford Floater is on Catalog page 50

SPRING CUPS for 5" OD Coil Springs

WOCSP straight up perch
WOCSP-O offset perch



Bolt On GM Metric Radius Lower Mounts - pair

Bolts on 3" OD tube

HMBL B-On Pair of single hole Bolt-On mounts - drop of 2.75" from bottom of tube

HMBL B-on 2.5" 2.5" drop measurement with single hole trailing arm mount

HMBL Multi B-on Pair of Bolt-On multi hole mount with radiused holes - Now with 5 holes on drivers side with drop of 6.91"



FLOATER HOUSING AND KIT OPTIONS

HKO1000 Upcharge for DOM Tubes .250" wall (1/4") both sides

HKO1100 Centerless Ground Tubes for Floater Housings, Tubing turned to 2.999" to 3.000" OD

HKO1200-1 Welded On GM Metric Brake Brackets added to any housing installed, includes brackets and labor.

HKO1400 Chrome Moly Tubes 3" OD x .188" wall

HKO1500-1 Housing New Back Brace for HNF9 includes back brace and labor to install

HKO1600 Gundrilled Hi Test Axle Option for pair of axles

HKO1700 Wilwood Spec 37 Rotors upgrade; pair

HKO1800 REM finish hub bearings and races

HKO1900 Upcharge to install 5/8th Heavy Tube, specify side

HKO2000-1 Upcharge for Multi Hole Brackets - Installed

HKO2105 Change single hole measurement to 2.5"

HKO22005 Specify if more than 4 degrees down pinion angle on Metric Housing for dirt racing

HKO2300 Upcharge for a Round Back Housing

HKO240# Upcharge for camber snouts, 1/2, 1 and 1-1/2 degree

HKO2500 Install Jack ring on bottom of housing

HKO2600 Upcharge for Locking Nuts- pair

HKO2800 Upcharge for GN 5x5 Scalloped Drive Flanges

PEM 2.5 inch GN Hubs and W5 Axles

Grand National 2.5 inch Hub Kits

GNHub 5 on 4 75 Kit
5 x 4 3/4" bolt circle with 3.75" long 5/8" coarse screw in studs

GNHub 5 on 5 Kit
5 x 5" bolt circle with 3.75" long 5/8" press in coarse studs

GNHub 5 on 5 Kit SS
5 x 5" bolt circle with short 5/8" press in coarse studs



PEM GN 2.5 inch Hub Assemblies have bearings, races installed, lug nuts, long 5/8" coarse wheel studs, rotor bolts, hub seal, lock washer and hardware included (no hub nut).

GN 2.5" Hub and Rotor Kits

- (2) hubs kits,
- (2) .810 rotors &
- (2) RH snout nuts

GNHRK5x5
GNHRK5x 4 3/4



W-On BBMSet pair of weld-on brake brackets for 11.75" x .810" GN racing rotor, 3.0" tube



R810x11750

11.75" OD x .810" wide vented rotor 8 bolt x 7" bolt circle for GN hubs

SHCSR5162478G8K
Rotor Bolt 8 piece Kit



BCalsp1

GM metric caliper spacer for .810 rotor. Fits 2.045" ID piston.



F9AXTS3KIT Axle Housing Seal keeps your lube in the center housing instead of the axle tube.

- Ford 9 inch Inner Axle Tube Seal
- Fits 3.0" OD x 3/16" wall rear end tubes
- Seals 28 and 31 spline axles



F9AXTIS Replacement seal

F9AXTOR Replacement O-ring (3 needed)

2.5 inch Grand National Hub Parts

ZGNBL610549 2.5" GN hub bearing

ZGNRL610510 2.5" GN hub race



GN DCKIT GN dust cap with 3 Screws and o-ring

GNDFK5x43/4 drive flange kit 5 x 4 3/4" bolt circle



GNDFK5x5 drive flange kit 5 x 5" bolt circle

GNDFK5x43/4S scalloped drive flange kit 5x 4 3/4" bolt circle

GNDFK5x5S scalloped drive flange kit 5 x 5" bolt circle



All Drive flange kits come with dust cap, o-rings and screws.

FHCSD5161812UCKit drive flange bolt 2 piece kit

GNHBAK GN hub install kit with bearings, seal, o-ring and lock washer

GNHOR GN hub o-ring, thin

GNHOR-THICK GN hub o-ring, thick



GNHDCOR GN dust cover o-ring

GNHSPL GN hub double lip seal

GNSSGN GN snout seal for GN stepped axle



GNSSW5 GN snout seal for wide 5 axle



GNSRH GN snout, RH thread, welds in .188" wall tubing



GNSNRH GN snout nut RH thread

GNLW GN lock washer

GNSNRH-Lock 2.5" GN locking RH Nut Kit



WSSK screw in 3.75" long, 5/8" coarse wheel stud, 5 piece kit for 4.75 GN hub

WSS ARPK screw in 2.5" long, 5/8" coarse wheel stud, 5 piece kit, for 4.75 GN hub

WSPK press in wheel stud 5/8" coarse with flat ground head, 5 piece kit 3.75" long, .685" knurl size



WSP LHDK press in wheel stud 5/8" coarse .690 knurl size, 5 piece kit 3.00" overall length

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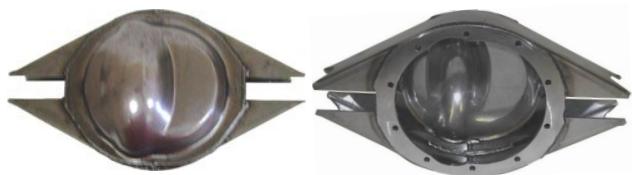
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HNF9 Rear End Center Housing and Weld Parts

HNF9 UPGRADED FOR 2025 With a heavier gauge steel

HNF9 9 inch Ford Stamped Center Housing

Designed to be built with 3.0" OD axle tubes (grinding may be required). Fits 9 inch Ford stock case plus 3.062" and 3.25" carriers. **Manufactured in the USA.**



HNBBF9 back brace for HNF9 center housing (has to be modified to fit a stock housing)

HSF9K 9 inch Ford housing studs, 10 piece kit



HNF9RB smooth back 9 inch Ford stamped center housing. Great for street rods that want the smooth back look!

79-87 GM Metric Housing Mounts and Bungs

HMBUSet Metric Upper Trailing Arm Mounts without bushings, pair

HMBUSHSet metric housing top Poly bushings, pair

BBMSleeveSSK Metric Upper Trailing Arm Sleeve with Set Screws(2), pair

HMBLSET Standard 2.75" drop lower 1 hole mounts notched for 3.0" tube, pair

HMBLSET IMCA HS 2.50" drop lower 1 hole mounts notched for 3.0" tube, pair

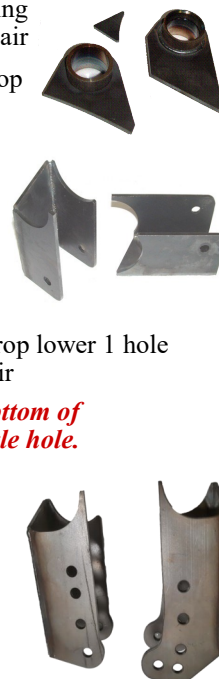
These are measured from the bottom of the tube to the center of the single hole.

HMBLMulti multi hole lower metric brackets, pair. Driver's side has 5 holes with a drop of 6.91"

Housing Fill, Drain Bung and Plug

HDB34 weld bung for 3/4" npt.

HPP34 pipe plug for 3/4" npt.



HFCKit Housing Fill with aluminum plug, steel bung and oring. 1.625" OD



Rear End Tube with Snout

- This tube welds in a used or new center housing to make your own floater rear housing.
- 3.0" OD x 188" wall DOM steel tubing
- Custom lengths available

Twinsnout 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 and 32"



Flanged 9 inch Ford Housing Ends

Big Bearing 9 inch Ford Forged Housing Ends

Manufactured for 3.15" OD Big Ford axle bearing. Made for 3.0" OD x .188" wall tubing

FlangeAxHE1/2 housing end 1/2" large, older Ford

FlangeAxHE3/8LM housing end 3/8" late model Torino

Dimensions for the housing ends are on the Rear End Custom Order Form page 48.

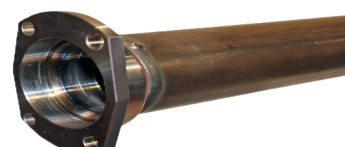


Rear End Tube with Flange Housing End

- This tube welds in a used or new center housing to make your own rear housing.
- 3.0" OD x 188" wall DOM steel tubing
- 26" measurement end to end total length
- Custom lengths available

TWFlange26 3/8 26" long 3.0" OD tube with flange, 3/8" Housing End

TWFlange26 1/2 26" long 3.0" OD tube with flange, 1/2" Housing End



Flanged Axles and Parts

Cut to Length Flanged 9 inch Ford Big Bearing Axle

**BBL Axle
Combo Kit
Shown**



- 1541 Induction Hardened Axle
- 1.565" Bearing journal for Big Bearing
- 5x4.5", 5x4.75" and 5x5" bolt patterns
- .685" drilled holes for press in wheel studs
- 2.5" or 2.375" brake offset
- 50" flange thickness for strength
- 5.94" flange OD
- 3.06" hub register OD (2.78" and 2.875" available)
- Easily cut to length

FlangeAx28BBL bare 33.0" long with 9.25" of inner 28 spline (minimum length 26").

FlangeAx28BBS bare 29.5" long with 10.0" of inner 28 spline (minimum length 21.5").

FlangeAx31BBL bare 33.0" long with 9.25" of inner 31 spline (minimum length 26").

FlangeAx31BBS bare 29.5" long with 10.0" of inner 31 spline (minimum length 21.5").

FlangeAX31BBL Blank bare 33.0" long with 9.25" of inner 31 spline (minimum length 26"). NO bolt pattern, must be drilled. Blank axle flange 7.0" OD.

Order as a COMBO KIT with the PA20SET Bearing Installed and Axle Retainer-must specify brake offset and axle retainer required.

NEW for 2025 35 spline Flanged 9 inch Ford Big Bearing Axle

- 1541 induction hardened axle
- 1.565" bearing journal for Big Bearing
- .685" drilled holes for press in wheel studs
- 5x4.5", 5x4.75" and 5x5" bolt patterns
- Easily cut to length
- 8 inches of inner spline
- 2.375" brake offset
- 3.06" hub register OD (2.78" and 2.875" available)



FlangeAx35L Flange Axle 35 Spline 31.75" long with 8" of inner spline, 3.06" hub register, 2-3/8" offset

FlangeAx35S Flange Axle 35 Spline 29.5" long with 8" of inner spline, 3.06" hub register, 2-3/8" offset

FlangeAx35Sht-2 Flange Axle 35 Spline 23.5" long with 8" of inner spline, 3.06" hub register, 2-3/8" offset

FlangeAxSpacer BB flanged axle spacer Big Bearing-spaces offset from 2.375" to 2.5" when using a PA20 Set

FLAX7.5GMSSM

- Replacement 7.5" GM axle with 26 splines
- 2 bolt patterns; 5x4.75" and 5x5" fits .685" knurl studs
- 1540 alloy induction hardened steel, 25% stronger than stock



9 inch Ford Flanged Axle Parts

PA20Set tapered bearing with race, seal and press on sleeve, 3.15" OD x 1.565" ID

P9132 Small Bearing with o-ring for Big Axle 2.834" OD x 1.562" ID

P9134 Big Diameter 9" Ford Axle Bearing with o-ring 3.15" OD x 1.562" ID

FlangeAR500 flanged axle retainer 1/2" big old style Ford

FlangeAR375 BB Flanged Axle Retainer 3/8" Big Bearing Torino

FlangeAR375 Sm Ford Flanged Axle Retainer 3/8" Small Bearing 2.81" OD Ford

T-bolt 1/2Kit t-bolt 1/2" kit with lock nuts 4 pieces each

T-bolt 3/8Kit t-bolt 3/8" kit with lock nuts 4 pieces each



Press In Wheel Studs - .685" knurl size unless listed

FlangeAxStud 1/2"K BB S press in short wheel stud 1/2" fine, 5 piece kit 1.875" long

FlangeAxStud 1/2"K BB L press in long wheel stud 1/2" fine, 5 piece kit 3.0" long 46190

FlangeAxStud 5/8"K Fine2 3/4" press in wheel stud 5/8" fine, 5 piece kit 2.75" long

FlangeAxStud 7/16"K BB S press in short wheel stud 7/16" fine, 5 piece kit 1.875" long

FlangeAxStud 1/2"-20 x 3.0" socket head screw in wheel stud 1/2" fine, 5 piece kit includes lock washers, 3.00" long



P. 636.629.6200

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**Pg.
35**

Flanged Housing Kits



Flanged Housings and kits available from 49" to 62" wheel to wheel with standard part numbers.

We do build custom offset housings. Custom Build Form on catalog page 48.

Options for the Flange Housing kits include: cut to length axles, turning the hub register to match your brake rotor or drum and installation of wheel studs.

9 inch Ford Flanged Housing Kits

Flanged Housing Kit with Upgraded HNF9 center. Includes cut to length flanged axles with bearing installed, axle retainers, t-bolt kits and wheel studs.

Specify;

- Housing end style
- Brake offset needed
- Wheel stud size and length

FHNC300300-28 60" centered with 28 spline axles

FHNC300300-31 60" centered with 31 spline axles

FHN300300 60" centered pinion, housing only

Please note: 60" width on part number is wheel flange to wheel flange with the rear end assembled.



GM Metric Flanged Housings are available from 58" to 62" with centered pinion.

1978-88 GM G-Body Metric Flanged Housing

9 inch Ford Housing with Upgraded HNF9 and trailing arm mounts installed.

FHNM300300* NEW flanged housing 60" centered for metric mounts (27.5" - 27.5") 3/8" housing ends

Options:

- Multiple radius hole lower mounts
- Added pinion angle for Dirt Track Racing

***Add K to Part Number for Kit with 28 or 31 Spline Axles**

GM A Body 9 inch Ford Flanged Housing

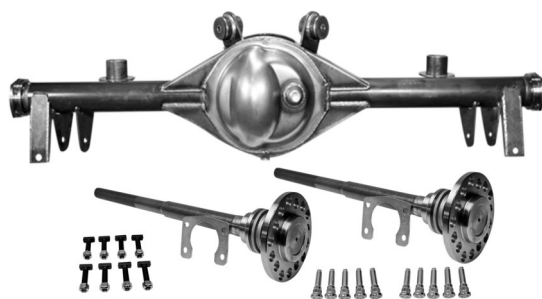
new stamped HNF9 center housing with all suspension trailing arm, spring and shock mounts

FHNAB300290SL* GM A-Body new flanged housing 59.5" stock location with 3/8" housing ends. Narrowest Chevelle Housing.

FHNAB305295SL* GM A-Body new flanged housing 60.5" stock location with 3/8" housing ends 1964-67 Chevelle

FHNAB315305SL* GM A-Body new flanged housing 62.5" stock location with 3/8" housing ends 1968-72 Chevelle

***Add K to Part Number for Kit with 28 or 31 Spline Axles**



OPTIONS FOR A FLANGED REAR END HOUSING OR KIT:

HKO1000 Upcharge for DOM Tubes .250" wall (both sides)

HKO1500-1 Upcharge for Housing New Back Brace for HNF9 includes back brace and labor to install

HKO2300 Upcharge for a Round Back Housing

HKO2700 Upcharge to Fully Assemble a Street Kit (Does not include brake installation)

PEM Center Section Premium Rebuild Kits

Ford 8.8 Inch

F88TTK* Complete Kit with R&P, True Trac And Overhaul Kit (*specify ratio)
F88 MO Kit F8.8 inch 28 and 31 spline 2009 & older Master Overhaul Ki
F88True Trac Ford 8.8 inch Eaton True Trac 913A561 (31 spline)

F88355 Ford 8.8 inch Ring and Pinion Standard 355 Ratio
F88373 Ford 8.8 inch Ring and Pinion Standard 373 Ratio
F88410 Ford 8.8 inch Ring and Pinion Standard 410 Ratio
F88456 Ford 8.8 inch Ring and Pinion Standard 456 Ratio
F88488 Ford 8.8 inch Ring and Pinion Standard 488 Ratio
F88513 Ford 8.8 inch Ring and Pinion Standard 513 Ratio



GM 10 Bolt 8.5 Inch

GM1085TTK* Complete Kit with R&P, True Trac and Overhaul Kit (*specify ratio)
GM1085 MO Kit GM 8.5 inch 10 bolt Rear Master Overhaul Kit
GM85True Trac GM 8.5 inch Eaton True Trac 913A481(30 spline)

GM30885BC 10 Bolt GM Ring and Pinion 308 Ratio, 8.5 inch Bolt Circle
GM34285BC 10 Bolt GM Ring and Pinion 342 Ratio, 8.5 inch Bolt Circle
GM37385BC 10 Bolt GM Ring and Pinion 373 Ratio, 8.5 inch Bolt Circle
GM41085BC 10 Bolt GM Ring and Pinion 410 Ratio, 8.5 inch Bolt Circle
GM45685BC 10 Bolt GM Ring and Pinion 456 Ratio, 8.5 inch Bolt Circle

All GM ring & pinions listed are for cars and have the narrow ring gear.

PEM Street Kits

TO ORDER A STREET KIT:

Choose your housing style or application
 Choose your axle spline count
 Choose your bolt pattern
 Choose your stud size
 Choose your carrier
 Choose your gear ratio
 Choose your yoke size
 Choose your brakes



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PEM Street Kits



Ford 9 inch New Small Web Street Kits

STKit SmW OD 49-64" wide Rear End Housing Kit with an Open Differential, 31 spline axles and Disc Brake Kit.

STKit SmW TL 49-64" wide Rear End Housing Kit with a Trac Loc, 31 spline axles and Disc Brake Kit.

STKit SmW TT 49-64" wide Rear End Housing Kit with an Eaton True Trac, 31 spline axles and Disc Brake Kit.

STKit SmW HT 49-64" wide Rear End Housing Kit with a Heli-Trac, 31 spline axles and Disc Brake Kit.

Muscle Ford 9 inch Street Kit

STKit M OD Muscle Ford 9 inch New HNF9 Stamped 49-64" wide Rear End Housing Kit with an Open Differential, 31 spline axles and Disc Brake Kit.

STKit M TL Muscle Ford 9 inch New HNF9 Stamped 49-64" wide Rear End Housing Kit with a Trac Loc, 31 spline axles and Disc Brake Kit.

STKit M TT Muscle Ford 9 inch New HNF9 Stamped 49-64" wide Rear End Housing Kit with an Eaton True Trac, 31 spline axles and Disc Brake Kit.

STKit M HT Muscle Ford 9 inch New HNF9 Stamped 49-64" wide Rear End Housing Kit with a Heli-Trac, 31 spline axles and Disc Brake Kit.



Quick Change Street Kit with a Helical Gear Differential



STKit QC Base kit includes Housing and 31 Spline Axles

STKit QC B Complete kit includes Housing, 31 spline axles, Disc Brake Kit and Standard QC gear set

STKit QC B with E Complete kit includes Housing, 31 spline axles, Disc Brake Kit with E brake and Standard QC gear set

QCO3000 Upcharge for Polishing

QCO3200 Upcharge for Full Assembly (no brake assembly)



All kits available can be ordered with Drum, integrated Emergency Brake Calipers and Dimpled and Slotted Rotors as upgrades upon request or you can order housing kits without brakes.

PEM Street Kits



Hot Rod Ford 9 inch Street Kit

STKit HR OD Hot Rod Ford 9 inch New Smooth 49-64" wide Rear End Housing Kit with an Open Differential, 31 spline axles and Disc Brake Kit.

STKit HR TL Hot Rod Ford 9 inch New Smooth 49-64" wide Rear End Housing Kit with a Trac Loc, 31 spline axles and Disc Brake Kit.

STKit HR TT Hot Rod Ford 9 inch New Smooth 49-64" wide Rear End Housing Kit with an Eaton True Trac, 31 spline axles and Disc Brake Kit.

STKit HR HT Hot Rod Ford 9 inch New Smooth 49-64" wide Rear End Housing Kit with a Heli-Trac, 31 spline axles and Disc Brake Kit.



GM A-Body 9 inch Street Kits

STKit GM A-Body OD 1964-1967 Chevelle, Cutlass, Regal, Lemans, GTO, etc. 60.5" or 1968-1972 Chevelle, Cutlass, Regal, Lemans, GTO, etc. 62.5" wide Rear End Housing with an Open Differential, 31 spline axles & Disc Brake Kit.

STKit GM A-Body TL 1964-1967 Chevelle, Cutlass, Regal, Lemans, GTO, etc. 60.5" or 1968-1972 Chevelle, Cutlass, Regal, Lemans, GTO, etc. 62.5" wide Rear End Housing with a Trac Loc, 31 spline axles & Disc Brake Kit.

STKit GM A-Body TT 1964-1967 Chevelle, Cutlass, Regal, Lemans, GTO, etc. 60.5" or 1968-1972 Chevelle, Cutlass, Regal, Lemans, GTO, etc. 62.5" wide Rear End Housing with an Eaton True Trac, 31 spline axles & Disc Brake Kit.

STKit GM A-Body HT 1964-1967 Chevelle, Cutlass, Regal, Lemans, GTO, etc. 60.5" or 1968-1972 Chevelle, Cutlass, Regal, Lemans, GTO, etc. 62.5" wide Rear End Housing with a Heli-Trac, 31 spline axles & Disc Brake Kit.



GM G-Body 9 inch Street Kits

STKit GM G-Body OD 1978-1988 New HNF9 Stamped Rear End Housing with an Open Differential, 31 spline axles and Disc Brake Kit.

STKit GM G-Body TL 1978-1988 New HNF9 Stamped Rear End Housing with a Trac Loc, 31 spline axles and Disc Brake Kit.

STKit GM G-Body TT 1978-1988 New HNF9 Stamped Rear End Housing with An Eaton True Trac, 31 spline axles and Disc Brake Kit.

STKit GM G-Body HT 1978-1988 New HNF9 Stamped Rear End Housing with a Heli-Trac, 31 spline axles and Disc Brake Kit.

STFHNM295285 58" GM G-Body Housing Only

STFHNM300290 59" GM G-Body Housing Only

STFHNM305295 60" GM G-Body Housing Only

P. 636.629.6200

F. 636.629.6207

PEM Street and Drag Racing Kits

Other Street Kits Available

- B-Body 1959-1964 Impala/ Bel Air/ Biscayne
- F-body Camaro and Firebird
1967-1969, 1970-1981 and 1982-1992
- C-10 Pickup 1967-1970/ 1970-1972
- Tri-Five 1955-1957 Chevrolet Passenger Cars
- Mustang 1964-1966
- Nova 1962-1967

Other kits added periodically, call and ask for a street rod specialist if you do not see your application.

C-10 Pickup Housing with Disc Brakes Installed(shown)



1993-2002 Camaro / Firebird
9 inch Ford Rear End Housing(shown)



DRAG RACE HOUSING and Kit

- With back brace
- Kit available with 31 or 35 spline flanged axles
- Must fill out custom order form with dimensions
- Custom 35 or 40 spline axles available in shorter widths with screw in studs
- 4 link mounts available. Must fill out custom order form with all dimensions and instructions for the 4 link installation.



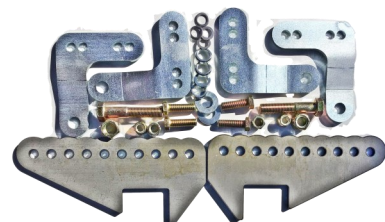
COILOVER SHOCK MOUNTING KITS

SMK-2

Weld On Main Shock Bracket

SMK-3

Weld On Main Bracket for Square Back Brace



PEM Econo Rear Brake Kits



B-ON DBK DS B-ON DBK-with E DS

Bolt-on 9 inch Ford disc brake kit with or without GM metric emergency brake calipers, pads, mounting bolts and fitting bolts.

Dimpled and Slotted rotors.

Two sizes available:

- Big Ford fits both sizes of housing ends for a 3.15" OD bearing
- Small bearing fits small Ford housing end for a 2.83" OD bearing

B-ON DBK B-ON DBK-with E Brake

Bolt-on 9 inch Ford disc brake kit with or without GM metric emergency brake calipers, pads, mounting bolts and fitting bolts.

Two sizes available:

- Big Ford fits both sizes of housing ends for a 3.15" OD bearing
- Small bearing fits small Ford housing end for a 2.83" OD bearing



W-ON DBK with E

Weld-on 9 inch Ford disc brake kit with GM metric emergency brake calipers.

Fits up to 3.25" OD axle tube

GM metric emergency brake calipers with D154 disc brake pads, mounting bolt and fitting bolts.

W-ON DBK

Weld-on 9 inch Ford disc brake kit with standard GM metric brake calipers.

Welds on 3.25" OD axle tube for GN Hubs

GM metric 11.25" rotor, brake calipers with D154 disc brake pads, mounting bolts and fitting bolts.

Drum Brake Kit

PEM 9 inch Ford Drum Brake Kit

- 11" ID x 2.75" width
 - Drum OD is 12.625"
 - 2.88" hub register size
 - Brake shoes are 2.25" wide
 - All new drums, backing plates, brake shoes and hardware
 - Housing end pattern New Style Big Ford 3/8" Torino
- Specify**
- Wheel bolt pattern 5 x 4 1/2, 5 x 4 3/4, 5 x 5 or 5 x 5 1/2"



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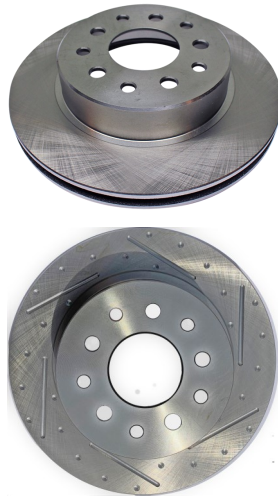
PEM Brake Kits and Components

R960x11250 Street Rod Rear Brake Rotor Standard

R960x11250 DS Dimpled and Slotted

- .960" wide x 11.25" OD
- Dual bolt circle 5 x 4 1/2" and 5 x 4 3/4"
- Brake hat back spacing is 2.25"
- Hub register is 2.78" ID
- 6.25" ID for axle flange
- Rotor hat thickness .250"
- Wheel stud hole size in rotor 5 x 4.5" is 1/2" and 5 x 4 3/4" is 7/16"

This is the rotor for our PEM econo brake kits.



BrakeSet with E

Right and Left GM metric emergency brake calipers with D154 disc brake pads, mounting bolts and fitting bolt.



BrakeSet without E

Right and Left GM metric brake calipers with D154 disc brake pads, mounting bolts and fitting bolt.



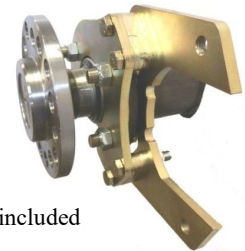
Rear Bolt-On Bracket Set

B-On BracketKit fits both sizes of big Ford housing ends for a 3.15" OD bearing.

B-On BracketKit Small Ford

fits small Ford housing end for a 2.83" OD bearing.

Axle not included



W-On BMB3125Set

- Pair of weld-on brake brackets for weld- on Econo Street Kit
- Fit on 3.25" tube.
- Use on R960 brake rotors above



BHKit

Street rubber Brake Hose Kit for use with PEM Econo Disc Brake. Two rubber brake hoses with hardware.

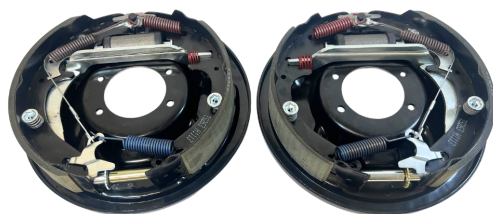


ParkingBrakeCableKit

Universal Cut to length parking brake cable kit. The kit includes the cables and plastic sleeves, equalizer assembly components, U-clamps and hardware.

DrumBrakeLoadedBackingPlate 3/8 NEW

New Loaded backing plates for 11 inch Drum and 3/8" big bearing housing ends



F9BackingPlate Set

New Bare backing plates for 11 inch Drum and 3/8" big bearing housing ends



Rear End Tools

CLAMSHELL BEARING PULLER KIT

Clamshell carrier bearing puller tool works on most standard size carrier bearings and pinion bearings on differentials including, Dana and Ford rear ends.

Carrier and pinion bearing puller kit for Dana 30, 35, 44, 60, 70, Ford 10.25" & 10.5". **Please note:** will NOT pull pinion bearing on a Dana 80.

- Kit includes: three different size hardened steel clamshells, retaining rings, adjusting collars and handy bench top rack.



The Clamshell bearing puller is the tool to use if you're setting up ring & pinions or doing general differential repairs. This tool works with an impact gun to quickly and safely remove your bearings while minimizing the risk of damage.

CASE SPREADER for DANA and Integral Housing Axles

- Safely and easily set carrier bearing pre-loads**
- Works on Dana 30 through Dana 80 Housings Please note: does not work on Dana 35 with dowel holes under the cover.**
- Spreader is NOT compatible with Corvette Housings**



YOKE HOLDING WRENCH

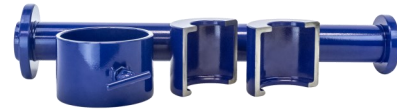
Helpful wrench used to hold pinion yoke while setting torque. Fits 1210 to 1550 u joint series.



Axle Bearing Puller Extension

Clamshell Style BPAE-CSS (Ford style)

Use with above clamshell bearing puller kit.



REAR END and TRANSMISSION BENCH YOKE



When assembling differentials, being able to securely position the assembly is essential. The heavy duty steel construction of the PEM Bench Yoke makes it the perfect tool for assembling and rebuilding center sections. The unpainted Bench Yoke rotates so you can work on any side.

Holds a rear center section or a transmission to your bench so you can rotate for service. This is strong and the exact unit we use in our assembly area daily.

NEW Do it yourself Fixture Table Kits

NEW PEM Fixture Table Kits are sold disassembled ready for you to assemble and weld.

These are made from laser cut .250" steel with 5/8" fixture holes spaced 2" on center.

FixTK 24x24x6 Fixture Table Kit 24" x 24" x 6"

FixTK 36x36x6 Fixture Table Kit 36" x 36" x 6"

FixTK 36x60x6 Fixture Table Kit 36" x 60" x 6"

Fixture Table Kit Options

FTKO1000 Stationary Leg Kit

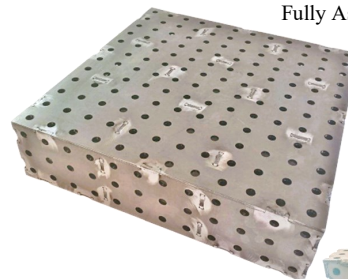
FTKO1100 Caster Leg Kit

FTKO1200 Fixture Squares

FTKO1300 Table Extension

FTKO1400 Work Piece Position Blocks

Fully Assembled Fixture Shown



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PEM Merchandise



T-Shirt Grey ## - PEM Grey T-Shirt available in S, M, L, XL and up to 5X

T-Shirt Black ## - PEM Black T-Shirt available in S, M, L, XL and up to 5X

Hat-Modern Trucker Hat Grey/Blk - Modern style trucker hat with snapback

Hat-PEM Black Flexfit ## - Flexfit hat available in S/M and L/XL

Hat- 112 ## - Authentic Richardson 112 Patch hat available in Tri-Color, Black/Grey and Red/Black

Hoodie-Fog Grey ## - Fog Grey Hoodie available in S, M, L, XL and up to 5X

Premium Hoodie Black ## - Premium Black Hoodie available in S, M, L, XL and up to 3X

Hoodie-Black ## - Black hoodie available in S, M, L, XL and up to 5X



NEW PEM 75W-140 Full Synthetic Gear Lube

NEW PRODUCT

PEM FULL SYNTHETIC 75W-140 GEAR LUBE



PEM 75W-140 Full Synthetic Gear Lube is a proprietary complex mixture of gear lubricants, combines with synthetic base stocks, and a sulfur-phosphorus extreme pressure additive package, which provides excellent thermal and oxidative stability, as well as anti-foam, anti-rust and anti-corrosion protection and have excellent load carrying capabilities. This high-performance gear lube is engineered to enhance gear and bearing performance and efficiency, provide extreme shock and high load protection, perform under extreme pressure and heat, reduce operating temperature, and increase gear and bearing life.

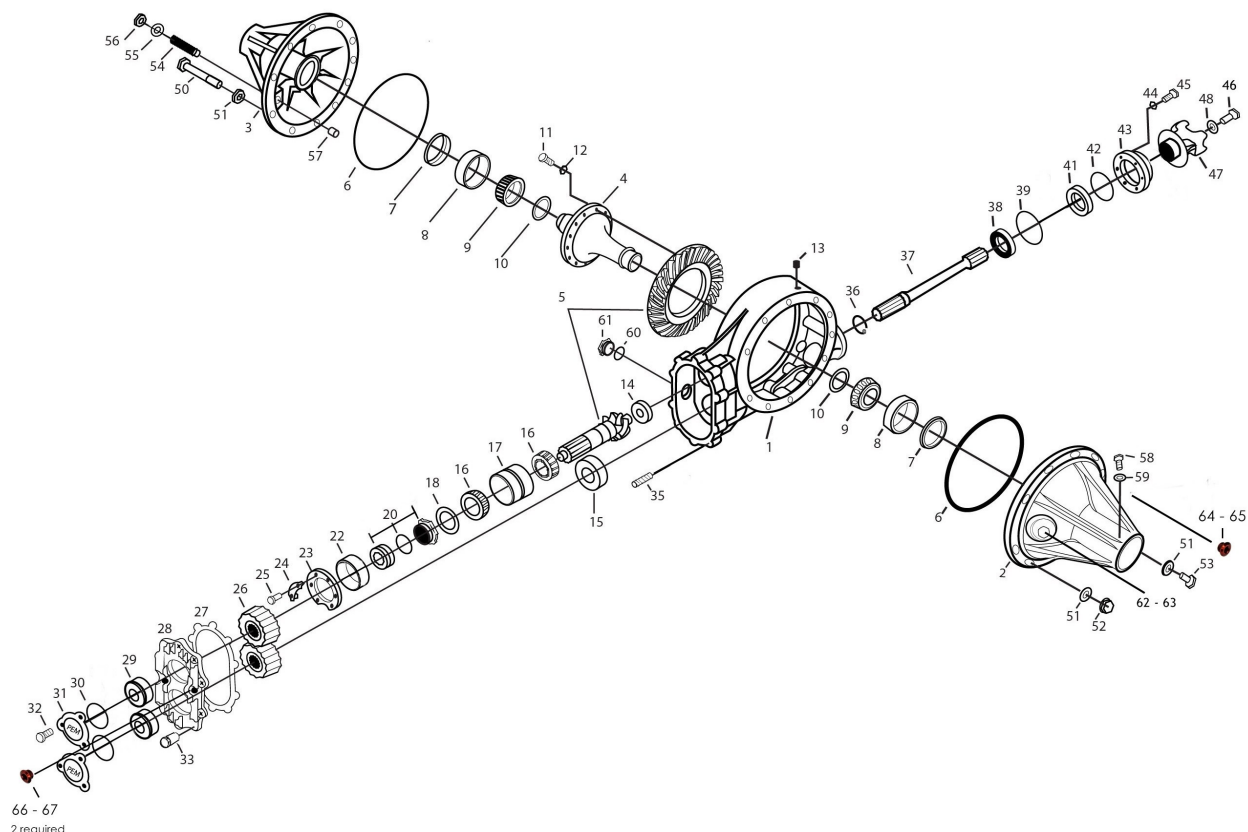
Applications: PEM 75W-140 Full Synthetic Gear Lube is recommended for all PEM Racing differentials and rear-ends, **PEM 75W-140 Full Synthetic Gear Lube** also meets or exceeds the API Service Designations: API MT-1, & API GL-5, as well as most differentials, rear ends, manual transmissions, and many types of gear boxes that require a 75W-140 full synthetic gear lube. Fully compatible with other synthetic & petroleum-based gear lubes.

Directions for use: Follow Equipment Manufacturer's SAE weight, filling instructions, and recommended gear lube types and capacity.

DO NOT USE IN WET CLUTCH or LIMITED SLIP APPLICATIONS

PEM Quick Change Standard Rear Schematic

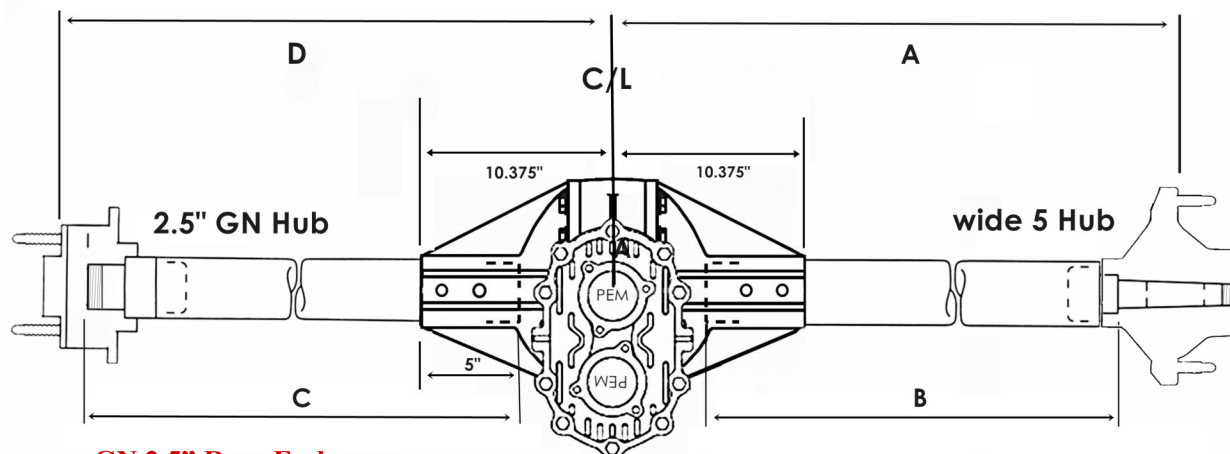
#	Part Number	Description	Qty	#	Part Number	Description	Qty
1	QCC0010	center section	1	36	QCC0120	lower shaft bearing retainer snap ring	1
2	QCC0020	passenger 6 rib side bell	1	37	QCC0060	lower solid thru shaft	1
3	QCC0030	driver 6 rib side bell	1	38	P7390	front lower shaft bearing 6307ZZ	1
4	QCFA31	aluminum spool 2.032" journal	1	39	QCC0121o	rear yoke plate o-ring	1
5	QC###R&P	ring & pinion	1	41	QCC0126	yoke seal - prior to 2025	1
6	QCC0118	side bell o-ring- thin square	2	41	QCC0151	yoke seal - for red seal plate after 2024	1
7	QCC0107	carrier seal	2	42	QCC0080o	yoke seal plate o-ring	1
8	P362A	race for P368S and P368	2	43	QCC0081	yoke seal plate- new red	1
9	P368S	2.032" spool bearing	2	44	QCC0109	yoke plate washer	6
10	QCC0133	spool shim Kit- 12 piece kit	1	45	QCC0106	yoke seal plate bolt	6
11	QCC0131	ring gear bolt	12	46	QCC0116	yoke retainer bolt only	1
12	QCC0132	ring gear washer	12	47	QCC0090	forged yoke-1310 series	1
13	QCC0127	1/4"-18 allen head pipe plug, steel	1	48	QCC0117	washer for yoke	1
14	PMU1205	pinion support bearing	1	50	QCC0141	thru bolt	10
15	P7339	rear lower shaft bearing 6207ZZ	1	51	QCC0143	thru bolt washer	22
16	P27880	pinion tapered roller bearing	2	52	QCC0144	thru bolt 2 way flange loc nut	10
17	P278200D	pinion race- holds 2 bearings	1	53	QCC0142	bolt	2
18	QCC0145	pinion thrust washer	1	54	QCC0110	thrust bolt	1
20	QCC0103	posi lock nut alum. for pinion RH Thread	1	55	QCC0136	thrust flat washer-aluminum	1
22	QCC0102	spacer under pinion retainer	1	56	QCC0135	thrust jam nut-aluminum	1
23	QCC0100	rear pinion retainer plate	1	57	QCC0137	thrust block	1
24	QCC0101	pinion retainer lock	3	58	QCC0129	tube bell bolt	12
25	QCC0106	pinion retainer bolt	6	59	QCC0109	tube bell washer	12
26	6####	quick change gears (not included)		60	QCC0115o	center section fill plug o-ring	1
27	QCC0105	rear cover gasket	1	61	QCC0115	center section fill plug	1
28	QCC0040	back cover plate- bare	1	62	QCC0128o	passenger side inspection/fill plug o-ring	1
29	QCC0108	back cover bearing standard	2	63	QCC0128	passenger side inspection/fill plug	1
30	QCC0112o	o-ring for back cover retainer	2	64	QCC0114o	passenger side fill level plug o-ring	1
31	QCC0123	back cover bearing retainer- aluminum	2	65	QCC0114K	passenger side fill level plug with 0-ring	1
32	QCC0122	back cover bearing retainer- bolts	6	66	QCC0114o	standard back cover plug o-ring	2
33	QCC0119S	back cover short nut- aluminum	10	67	QCC0114K	standard nback cover plug with 0-ring	2
35	QCC0113	back cover stud	10	68	QCC0125	bottom drain plug, 3/8 npt steel	1



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Quick Change Rear End Custom Order Build Sheet



GN 2.5" Rear End

C _____ Driver side tube with snout measurement (total length)
C _____ Passenger side tube with snout measurement (total length)

Driver side dimension D

Center line to wheel mounting surface

Tube Options:

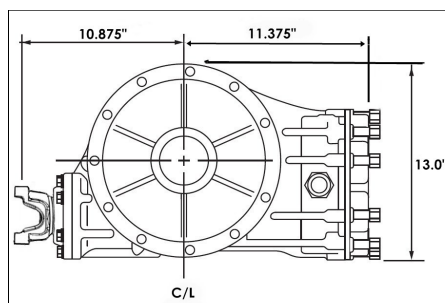
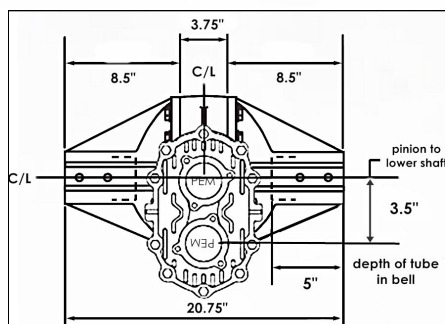
_____ .188" wall DOM Steel
 _____ .188" wall Chrome Moly
 _____ .625" wall DOM Steel

Passenger side dimension A

Center line to wheel mounting surface

Tube Options:

_____ .188" wall DOM Steel
 _____ .188" wall Chrome Moly
 _____ .625" wall DOM Steel



Wide 5 Rear End

D _____ Driver side dimension

Tube Options:

_____ .188" wall DOM Steel
 _____ .188" wall Chrome Moly
 _____ .625" wall DOM Steel
 _____ .250" wall wide 5 Aluminum
 _____ 1 ton Aluminum

A _____ Passenger side dimension

Tube Options:

_____ .188" wall DOM Steel
 _____ .188" wall Chrome Moly
 _____ .625" wall DOM Steel
 _____ .250" wall wide 5 Aluminum
 _____ 1 ton Aluminum

B _____ Driver side bearing step to end of tubing

B _____ Passenger side bearing step to end of tubing

Standard QC Rear End Options:

_____ QCO1000 lightened spool **
 _____ QCO1100 9.5" outside diameter ring gear
 _____ QCO1200 9.0" outside diameter ring gear (crate)
 _____ QCO1300 black thermal coating **
 _____ QCO1400 REM finish ring & pinion **
 _____ QCO1500 REM finish all bearings and races **
 _____ QCO1600B gundrilled axles option for GN kit **
 _____ QCO1750 .188" wall chrome moly tubes
 _____ QCO1900 Wilwood spec 37 brake rotors for GN kit
 _____ QCO2000 gundrilled lower shaft **
 _____ QCO2100 assembled big box, does not include truck freight- bells and tubes bolted to center
 _____ QCO2200 upcharge to install 5/8th steel tube on GN rear end, specify side
 _____ QCO2250 upcharge to install 5/8th steel tube on wide 5 model rear end, specify side

_____ QCO2400 upcharge for GM mounts metric with single hole lower
 _____ QCO2450 upcharge for GM mounts metric with multi hole lower
 _____ QCO2600-1 upcharge for locking GN nuts
 _____ QCO2700 upcharge for 6 bolt big bearing rear cover **
 _____ QCO2800 upcharge for 8 rib bells (pair)
 _____ QCO2900 upcharge for one ton aluminum tube (per side) on late model rear end
 _____ QCO3300 upcharge for longer forged rear End Yoke
 _____ QCO3400 upcharge for scalloped GN drive flange
 _____ QCC3500 upcharge for .250" wall DOM steel GN tubes
 _____ QC03600 upcharge for GN 4.75 bolt pattern hubs

** STANDARD ON MAX REAR ENDS

Drive Shaft Custom Build Order Form

All measurements must be taken at vehicle ride height with pinion angle set.

Figure 1

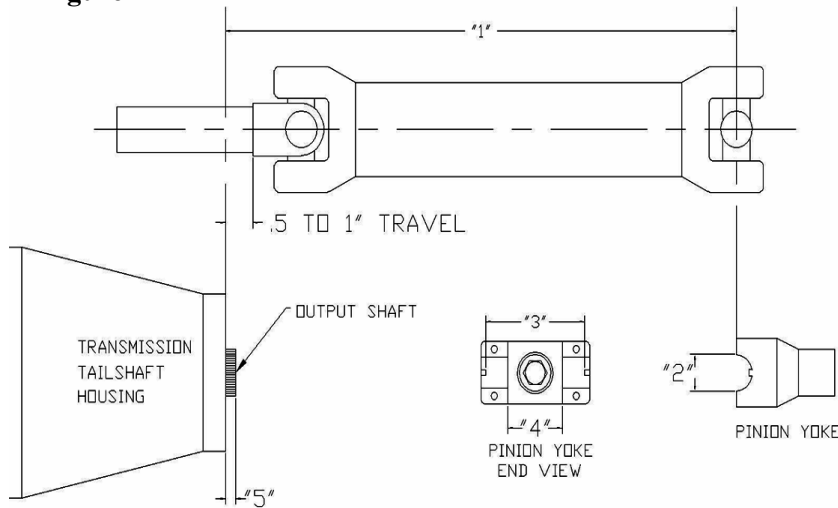


Figure 2

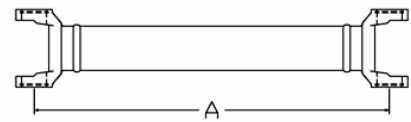
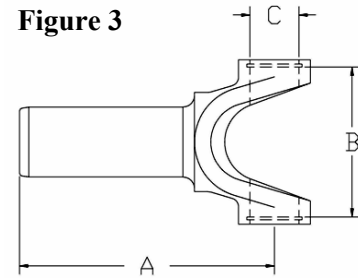


Figure 3



Slip Yoke (refer to figure 3)

(A) _____

(B) _____

(C) _____

Spline _____

Option:

Chrome Moly Slip Yoke _____

1. Length-1 (refer to figure 1) _____
2. or Length-A (refer to figure 2) _____
3. Circle One: 1 1/16" or 1 1/8" or 1 3/16" _____
4. Outside Retaining u-joints (circle one): 3 7/32" or 3 5/8" _____
5. Inside Retaining u-joints _____
6. Length of extending output shaft _____
7. Additional Information: _____

DOM Steel x Wall thickness

2.0" OD x .083" wall _____
 2.0" OD x .120" wall _____
 2.5" OD x .083" wall _____
 3.0" OD x .083" wall _____
 3.5" OD x .083" wall _____
 4.0" OD x .083" wall _____

Carbon Fiber x Wall thickness

2.25" OD x .125" wall _____
 2.25" OD x .125" wall (Superflex) _____
 2.75" OD x .125" wall _____
 2.88" OD x .155" wall _____
 3.25" OD x .125" wall _____
 4.25" OD x .125" wall _____

Aluminum x Wall thickness

3.0" OD x .125" wall _____
 3.5" OD x .114" wall _____
 3.5" OD x .125" wall _____
 4.0" OD x .087" wall _____
 4.0" OD x .125" wall _____
 5.0" OD x .125" wall _____

Chrome Moly x Wall thickness

2.0" OD x .065" wall _____
 2.0" OD x .083" wall _____
 3.0" OD x .083" wall _____
 3.5" OD x .083" wall _____
 Option: Chrome Moly Weld
 Yokes available in:
 3.0" _____ 3.5" _____

TIPS: The vehicle must be measured as it is to operate; DO NOT measure with the suspension hanging. Fill out all dimensions on the order to get the correct drive shaft with the correct yokes. Grease u-joints after you install the drive shaft.

Do not over tighten u-bolts.

Torque Specs: Cap Size

1 1/16" and 1 1/8" 15-17 ft/lbs.
 1 3/16" 15-25 ft/lbs.
 1 3/8" 33-37 ft/lbs.

Other build sheets available for your specific application upon request.

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Flanged Rear End Housing Custom Order Build Sheet

Flanged Housing Custom Build Sheet

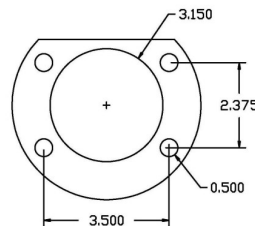
*You must fill this build sheet out if you are having us build
ANY custom housing that is not a stocking number.*

- Type of Application (circle one): street, drag race, circle track
- Housing Center Style (circle one): HNF9 New Stamped Center,
HNF9RB New Stamped Center Round Back, New Stamped Small Web Round back Center
- Axle Brake Offset (circle one): 2 3/8" or 2 1/2"
- Housing End (circle one): Big Ford Old Style 1/2" bolt or Big Ford New Style Torino 3/8" bolt
- Tubing size (circle one): 3" OD x 3/16" wall or 3" x 1/4" wall
- Housing Drain Bung and plug, 3/4 npt: yes or no
- Housing Fill Bung and Plug, 3/4 npt: yes or no (*fills not available on round back rears*)
- Aluminum Housing Fill: yes or no
- Back Brace Installed (only for HNF9 center): yes or no

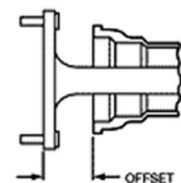
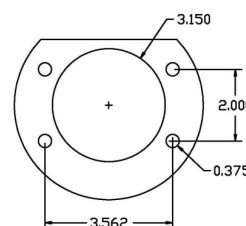
Please provide these measurements from below diagram

(D) _____
(E) _____
(F) _____
(G) _____

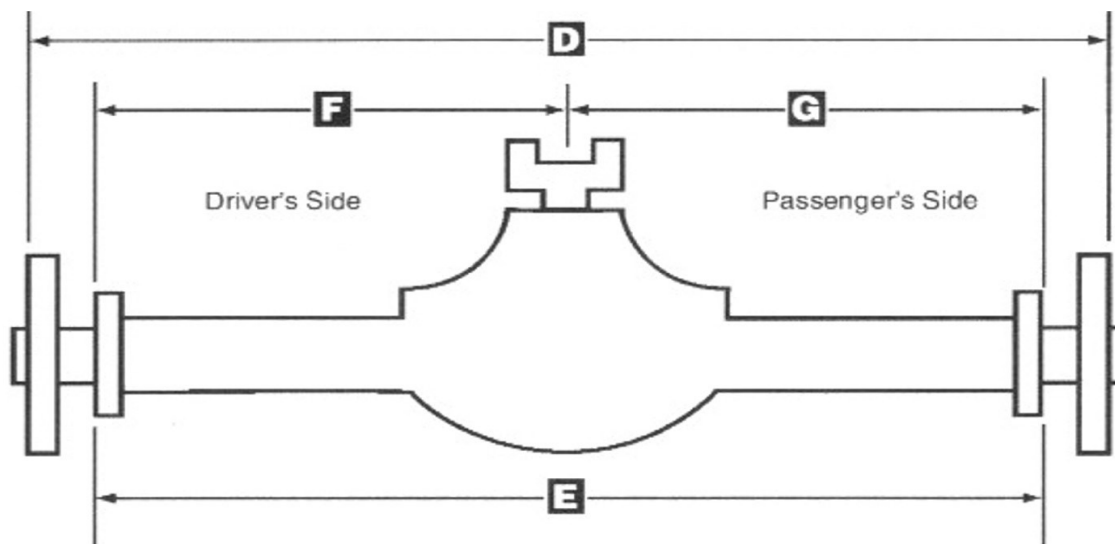
Big Ford (Old Style)



Big Ford (Torino)



**Axle
Brake Offset**



FLANGED AXLE CUSTOM ORDER SHEET

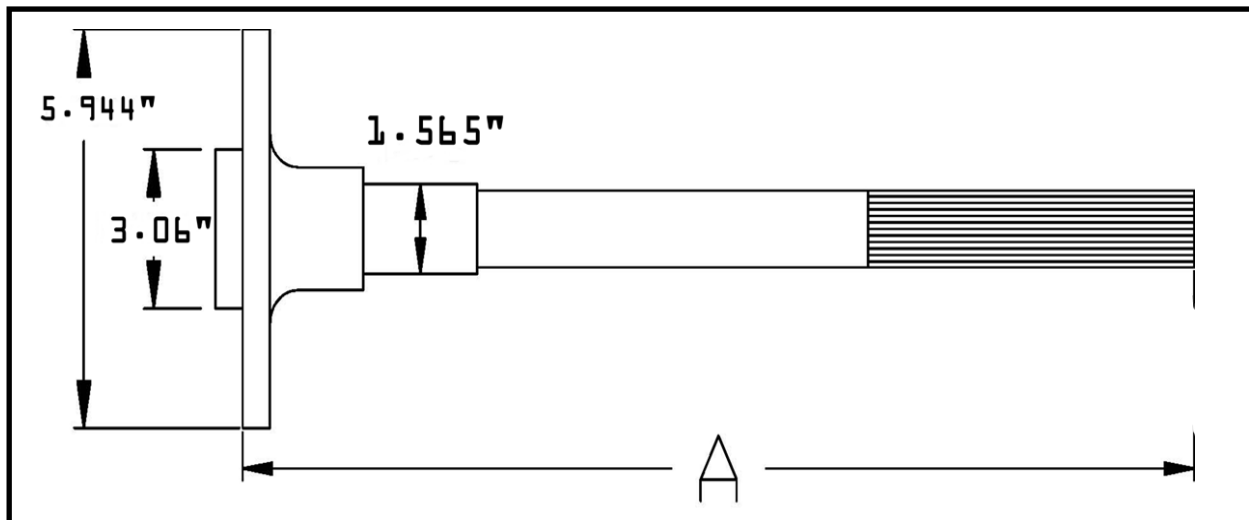
Flanged Axle Custom Build Sheet

You must fill this build sheet out if you are going to have PEM cut the flanged axles to length. Maximum axle length is 33.0" and Minimum length is 21.5" (applies to 28 and 31 spline only).

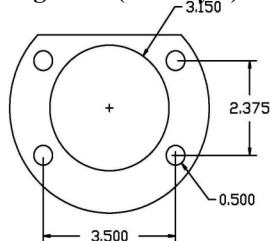
35 spline axle maximum length is 31.75", minimum length is 17.5".

35 spline axles are only available with press in studs.

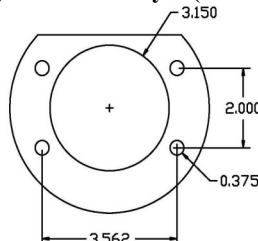
- **Type of Application:** (circle one): street, drag race, circle track
- **Axle Splines** (circle one): 28 spline 31 spline 35 spline
- **Axle Offset** drawing below (circle one): 2 1/2" or 2 3/8"
- **Turn Flange OD** (maximum 5.944") _____
- **Turn Hub Register** (maximum 3.06") _____
- **Driver Side A Measurement** _____
- **Passenger Side A Measurement** _____
- **Axle Retainer Pattern** (circle one): Big style Old Ford 1/2" or New Style Big Ford Torino 3/8" or Ford Small Bearing
- **Bolt Pattern** (circle one): 5 x 4.5" small Ford, 5 x 4.75" GM or 5 x 5"
- **Access Holes** (circle one): YES or NO (YES for Drum Brakes or Internal E Brake Applications)
- **Wheel Stud Size** press in only (circle one): 7/16" fine thread, 1/2" fine short (custom wheels), 1/2" fine 3" long, 5/8" fine thread with quick start, 5/8" coarse thread 2 3/4" long with quick start, 5/8" coarse thread 3 3/4" long with quick start



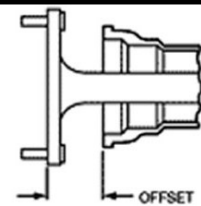
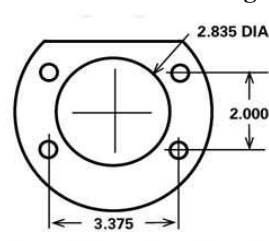
Big Ford (Old Style)



Big Ford New Style (Torino)



Ford Small Bearing



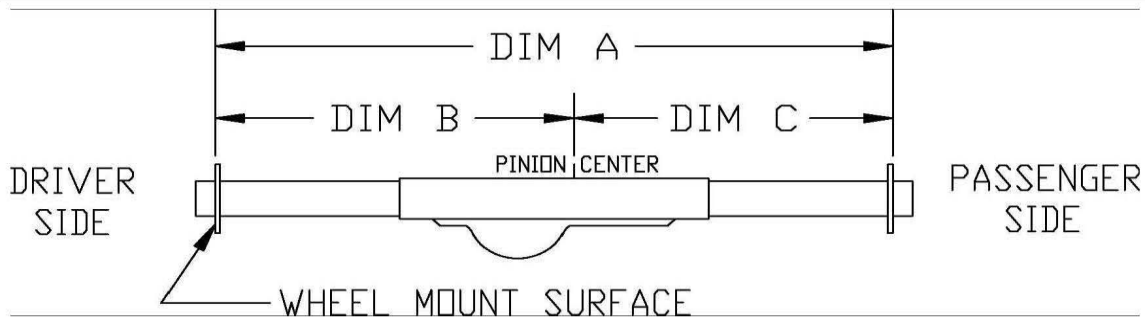
Axle
Brake Offset

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PEM FORD 9" FLOATER HOUSING ORDERING FORM

636.629.6200 fax 636.629.6207



- **Dimension A:** Overall Length; Hub Face to Hub Face
- **Dimension B:** Driver side; Hub Face (Driver side) to Pinion Centerline
- **Dimension C:** Pass. side; Hub Face (Passenger side) to Pinion Centerline

Dimension A: _____ Dimension B: _____ Dimension C: _____

• **Center is a New Stamped Center HNF9**

- **Snouts** 2.5" GN snout _____ 2" Howe/Vogel _____
Mini 5 or Coleman IMCA snout _____ wide 5 snout _____

• **Axle Tube Material**

- .188" wall D.O.M _____ .188" wall Chrome Moly _____
- .250" wall D.O.M. _____ .625" Heavy wall D.O.M (Specify Side) _____
- Centerless Ground .188" wall DOM Rear End Tubes 2.999" to 3.00" _____

- **GM Metric Brake Brackets** weld on installed _____

- **GM Metric Trailing Arm Mounts Top & Bottom with 4 degrees pinion angle**

GM metric mounts only available on centered pinion housings 58" through 62" track width

single hole lower mounts installed _____ multi hole lower mounts installed _____

GN 2.5" Hubs

- GNHK5x4 $\frac{3}{4}$ _____ 5x4 $\frac{3}{4}$ Grand National with steel drive flange
- GNHK5x5 _____ 5x5 Grand National with steel drive flange
- 5/8" coarse Hub Wheel studs standard long _____ short _____

• **Brake Rotors**

.810" wide x 11.75" OD vented _____ 1" wide x 11.75" OD Wilwood Spec 37 _____

• **Axle Sets**

28 spline solid _____ 31 spline solid _____ 31 spline Gun Drilled _____

NOTE: Axle lengths will match accompanying housing dimensions

REAR END TECHNICAL INFORMATION and SET UP SPECIFICATIONS

Technical Information for Ford 9 inch 6:66, 6:83, 7:00, 7:16 and 7:33 ring & pinions: PEM recommends using an inner seal in the outer axle tube. Without containing the gear lube in the center housing your gears and bearing will get too hot and will cause the gears to anneal. Annealing will destroy the heat treatment applied to the gears at the factory making them soft. This is why gears will appear to have MELTED to some degree. **PEM highly recommends** a high pressure synthetic or synthetic blend and a rear end oil cooler in all three of these gear applications for the best results!

Ford 9 inch CENTER SECTION BREAK IN PROCEDURES

Carrier Assembly Torque Carrier assembly to housing stud nuts 25-40 ft. lbs.

Lube Recommended Lube is a quality name brand mineral based 85/140w or 75/140w full synthetic lube with a GL5 rating.

Note: for oval track racing minimum of 1 gallon is required, PEM full synthetic 75/140 recommended.

Ring & Pinion Break In Procedure Proper break in of your new ring & pinion is extremely important. When the following procedures are followed, you will realize the performance gains expected.

Circle Track Break In

1. Break in with mineral based lube.
2. Drive the car at slow speed for around 6 laps (1/2 mile oval).
3. Let the ring & pinion cool 30 minutes.
4. Drive the car again at slow speed for around 6 laps.
5. Drive the car at full speed 2-3 laps.

Street Vehicle Break In

1. Operate the car at normal street driving speed for around 10 miles (25-45 mph).
2. Let the ring & pinion cool 30 minutes.
3. Friction modifier additive must be used in addition to the lube in all Trac-Loc clutch style limited slip applications.

Drag Race Break In

Drive the car around the pits or on the return road for approximately 10 minutes. NOTE: When the proper lube is used and backlash set properly excessive heat buildup should not occur.

Towing Vehicle Break In

Operate the towing vehicle at normal street driving speed for around 250 miles (25-45 mph).

PEM QUICK CHANGE ASSEMBLY INSTRUCTIONS

Install Side Bells on Center Section

- The best way we have found to do this is to install your hub on the right side tube and stand straight up with the wheel mounted on the hub.
- Before you set on the ring gear/carrier group make sure to loosen the Thrust Block Adjustor Screw.
- Lube the ends of the spool so they will not tear the carrier seal.
- Install lubricated side bell o-ring and then, spool and ring gear with flat side of ring gear facing down.
- Sit the center assembly on the side bell. There are stamped letters at the top of the bell and center section to line the bolts up correctly.
- Lightly lube the side bell o-ring and install in groove on bell. Set on the Right Side Bell.
- Install and torque side bell bolts to 35 foot lbs.— criss-cross pattern. Use RTV on short bolts by yoke.
- If you choose to aid in sealing of your housing, a thin coat of RTV can be used on the side bell o-rings.

Thrust Block on Left Side Bell

Adjust screw on left side bell till the thrust block touches the back of the ring gear and then back off 1/4 turn and lock in place with lock nut. Check video on our web site.

Torque Settings on Bolts	Side bell thru bolts and short bolts 35 ft. lbs.	Yoke seal plate bolts (6) 35 ft. lbs.
(Check regularly)	Rear Cover Aluminum High Nuts 25 ft. lbs.	Yoke retainer bolt (1) 45 ft. lbs.

Lubrication and Fill Level

- Recommended Lube is a quality name brand mineral based 85/140w or **PEM 75/140w full synthetic lube** with a GL5 rating.
- Fill through Large Pinion Inspection Plug on Right Side Bell.
- Oil Level Plug is Small Button Plug on the front side of the Right Side Bell. Make sure rear end is level when you are filling to the small oil level plug. Recommended oil level is 2" below axle center line (approximately 3 1/2 quart). Too much lube causes overheating.



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