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EXPLANATION OF TERMS AND MEASUREMENTS

OPEN SPRING PRESSURE

There are a few terms used in determining which pushrod would best fit your needs that would be beneficial for you to understand.

One major factor for determining the correct tube diameter and wall thickness is "open spring pressure". Open spring pressure is the pressure in pounds exerted against the rocker when the valve is in the fully opened position. This pressure is also affected by rocker ratio, lifter type (hydraulic or solid), the angle between the lifter to pushrod and pushrod to rocker and the normal operating RPM of your engine.

Generally we will ask you what your open spring pressure is which you can usually find out from the manufacturer of your valve springs. If they are stock replacement valve springs, you won't need the spring pressure information. Just let us know they are stock.

RADIUS OF ENDS

Determining which ball and/or cup you require is also very important. We will quiz you to help us determine what ends you need. Again, if everything you're using is stock, we can usually determine what you require.

When, as is usual in most cases, after-market lifters and/or rockers are used, the size/type/style of end you need could vary. One way of determining the correct radius (curve) of end is utilizing a set of gauges called "radius gauges". Most machine shops have these but very few home hobbyist's do. One way to determine, on a ball and cup style, whether the ball and cup are the same radius is to take two pushrods that you know are correct and put the ball end of one into the cup end of the other and check the fit. **A complimentary radius gauge with the 3 most common profiles is adhered to the inside back cover of this catalog. Note: your radius may be different.**

In some cases, the best way to get the correct ends for your project is to send us a sample. We will then measure the length and end radius and produce pushrods that are certain to be correct.

DETERMINING LENGTH

This is one of the hardest measurements to determine. Because of varying valve train geometry, determining the correct length pushrod is a science unto itself.

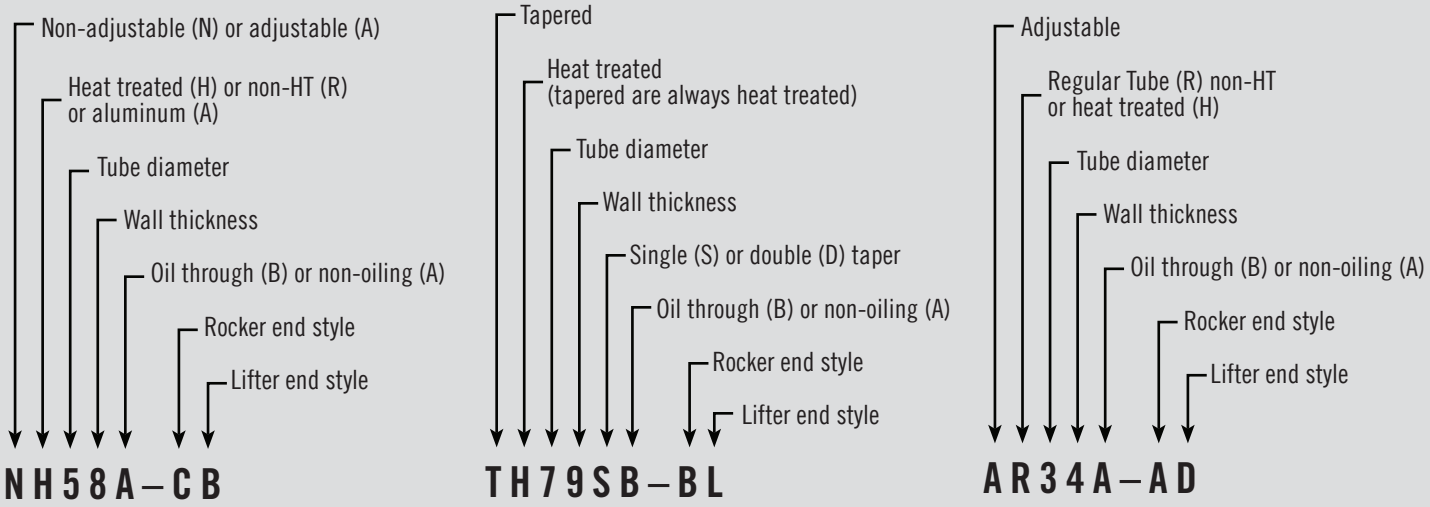
First, let's tackle some terminology. There's overall length, which is the length measured from the extreme end to end. This is from the very end of the ball end to the very end of the other ball end or cup end as the case may be. A couple factors affect this measurement. One being that if the pushrod being measured has oil holes in it then the measurement could be off by the amount that the machining of the oil hole subtracted from the overall length of the end. This usually doesn't adversely affect the length depending on the diameter of the hole.

The actual measurement if there were no oil holes in the ends is called the theoretical length. Don't let this confuse you because the difference is usually very slight. A problem of more significance is when you measure a cup and ball style pushrod. Measuring the overall length of this style can give erroneous information as the cup depth from one manufacturer to another can and does vary by as much as .060 inch. (Read as 60 thousandths of an inch) If you do know the overall length and have a caliper to measure the cup depth then this measurement will work.

The measurement from the bottom of the cup to the end of the ball is called the "effective length". Knowing this length is more accurate as the cup depth differences won't be factor. One way to determine effective length is by placing a steel ball (the correct diameter for the cup) into the cup and using a caliper, measure the overall length then subtract the steel ball's diameter. This will give you the length from the bottom of the cup to the end of the ball.

We're sure questions will arise so please don't hesitate to contact us for assistance.

GRAPHIC EXPLANATION OF CUSTOM PART NUMBER CREATION



GUIDE TO DETERMINING CUSTOM PUSHROD PART NUMBERS

Examples: **NH38A-CB** = 3/8 x .083 Heat Treated 5/32 R Cup & 5/32 R Ball no/oil **AR54B-AA** = 5/16 x .049 Non-Heat Treated Adjustable 1/8 R Screw & 1/8 R Ball with oil

PREFIX

UP TO 400 LBS OPEN SPRING PRESSURE	
NR54A**	5/16 x .049 4130 Chromoly Non-Heat Treated
NR54B**	
NR34A	3/8 x .049 4130 Chromoly Non-Heat Treated
NR34B	
UP TO 500 LBS OPEN SPRING PRESSURE	
NH54A	5/16 x .049 4130 Chromoly Heat Treated
NH54B	
NH34A	3/8 x .049 4130 Chromoly Heat Treated
NH34B	
UP TO 700 LBS OPEN SPRING PRESSURE	
NH58A	5/16 x .083 4130 Chromoly Heat Treated
NH58B	5/16 x .083 4130 Chromoly 2-PC
*CN58C2	
NH36A	3/8 x .065 4130 Chromoly Heat Treated
NH36B	
NH76A	7/16 x .065 4130 Chromoly Heat Treated
NH76B	
OVER 700 LBS OPEN SPRING PRESSURE	
NH5116A	5/16 x .116 4130 Chromoly Heat Treated
NH5116B	
*CN5116C2	5/16 x .116 4130 Chromoly 2-PC
NH38A	3/8 x .083 4130 Chromoly Heat Treated
NH38B	
*CN38C2	3/8 x .083 4130 Chromoly 2-PC
NH312A	3/8 x .120 4130 Chromoly Heat Treated
NH312B	
*CN312C2	3/8 x .120 4130 Chromoly 2-PC
NH314A	3/8 x .145 4130 Chromoly Heat Treated
NH314B	
*CN314C2	3/8 x .145 4130 Chromoly 2-PC
NH79A	7/16 x .095 4130 Chromoly Heat Treated
NH79B	
*CN79C2	7/16 x .095 4130 Chromoly 2-PC
NH712A	7/16 x .120 4130 Chromoly Heat Treated
NH712B	
NH716A	7/16 x .165 4130 Chromoly Heat Treated
NH716B	
NH212A	1/2 x .120 4130 Chromoly Heat Treated
NH212B	
NH215A	1/2 x .156 4130 Chromoly Heat Treated
NH215B	
NH218A	1/2 x .188 4130 Chromoly Heat Treated
NH218B	

**For use w/ guide plates **A=no oil B=w/oil*

SUFFIX Pick 2 *(always put the rocker end as first letter)*

5/16 TUBE ENDS		w/oil	no oil
A	1/8 R* Ball	X	X
B	5/32 R Ball	X	X
C	5/32 R Cup	X	X
D	3/16 R MW Ball	X	X
E	3/16 R Cup		X
F	5/32 R Ball	0.040	
G	5/32 R Ball	0.030	
H	5/32 R Ball	0.020	
I	3/16 R MW Ball	0.040	
J	11/64 R Ball	X	X
K	1/4 R Ball	X	X
L	5/16 R Ball		X
M	1/2 R Ball		X
N	15/64 R Ball		X
O	9/64 R Cup		X
P	7/32 R Ball	X	X
Q	11/64 R Cup		X
R	11/64 R Cup**		X
S	1/8 R Cup		X
T	13/64 R Cup		X
U	7/64 R Cup		X
V	1/8 R CAD Ball		X
W	9/64 R Ball	X	X
X	13/64 R Ball		X
Y	9/32 R Ball		X
Z	5/32 R Corvair	X	
1	11/128 R Ball		X
2	Flat		X
3	5/16 R Cup		X
4	15/64 R Cup		X

**R=radius **short cup for Volvo*

7/16 & 1/2 TUBE ENDS		w/oil	no oil
A	1/8 R Ball		X
B	5/32 R Ball	X	X
C	5/32 R Cup		X
D	3/16 R MW Ball	X	X
E	3/16 R Cup	X	X
F	5/32 R Ball	0.040	
G	5/32 R TF Cup*		X
H	3/16 R TF Cup*	X	X
I	3/16 R Ball	X	X
J	5/32 R TF Ball*	X	X
K	3/16 R TF Ball*		X
L	5/32 R OSL Ball**	X	
M	9/64 R Cup	X	
N	7/32 R Ball	X	
O	7/32 R Ball		X
P	5/32 R OSL Ball	X	
Q	1/4 R Cup*		X
R	5/16 R Ball*		X
S	5mm R Cup		X
T	5mm R Ball		X
U	5/32 R TF Ball***	X	

**Top Fuel Ends **OFF-SET Lifter End*
**** Shoulder for 1/2 Tube*

3/8 TUBE ENDS		w/oil	no oil
A	1/8 R Ball	X	X
B	5/32 R Ball	X	X
C	5/32 R Cup	X	X
D	3/16 R MW Ball	X	X
E	3/16 R Cup	X	X
F	5/32 R Ball	0.040	
G	5/32 R Ball	0.030	
H	5/32 R Ball	0.020	
I	3/16 R Ball	X	X
J	11/64 R Ball		X
K	1/4 R Ball		X
L	5/16 R Ball	X	X
M	1/2 R Ball		X
N	15/64 R Ball		X
O	9/64 R Cup	X	X
P	7/32 R Ball	X	X
Q	11/64 R Cup		X
R	11/64 R Cup*		X
S	5/32 R Cup	0.040	
T	3/16 R Cup	0.040	
U	1/4 R Cup		X
V	15/64 R Cup	X	X
W	5/16 R Cup		X
X	15/64 R PH Ball**		X
Y	11/64 R MW Ball		X
Z	1/2 R MM Ball***		X
1	9/32 R Cup		X
2	7/32 R Cup		X
3	6mm R Cup	X	
4	29/64 R Ball		X
5	5mm R Cup		X
6	5mm R Ball		X
7	7/16 R Ball		X

**short cup for Volvo **Harley Pan Head*
****Minneapolis Moline*

ADJUSTABLE ENDS		w/oil	no oil
A	1/8 R Screw	X	X
B	5/32 R Screw	X	X
C	11/64 R Screw		X
D	3/16 R Screw	X	X
E	5/32 R Screw*		X
F	5/32 R Screw**	X	X
G	5/32 R Cup Screw		X
H	Flat Screw		X
I	1/8 R Screw***		X

**Early Olds **5/16 Hex ***5/16 thread*
For adjustable rods, change the prefi x to AR or AH.

Lengths are to be specified and are not part number specific. On cup & ball style rods, let us know if the length is to the top of the cup (OA)=Overall or to the inside of the cup (EL)=Effective.

ONE AND TWO PIECE PUSHRODS

One and two piece pushrods

PART #	DESCRIPTION	RACER NET
581-(Size)	**5/16 X .083 One Piece** (guideplate compatible) Add Size From 6" To 10" Every .050 Example 581-7850	7.85
581S-(Size)	**5/16 X .083 One Piece W/Shaft Rocker Ball 1/end** (guideplate compatible) Add Size From 6" To 10" Every .050 Example 581S-7850 (We carry limited sizes pre-made)	8.70
581R-(Size)	**5/16 X .083 One Piece W/.040 Oil Restrictor** (guideplate compatible) Add Size From 6" To 10" Every .050 Example 581R-7850	10.30
5116-(Size)	**5/16 X .116 One Piece W/Shaft Rocker Ball 1/end** (guideplate compatible) Add Size From 6" To 10" Every .050 Example 5116-7850	11.15
381-(Size)	**3/8 X .083 One Piece** (guideplate compatible) Add Size From 7" To 11" Every .050 Example 381-7850	9.60
381S-(Size)	**3/8 X .083 One Piece W/Shaft Rocker Ball 1/end** (guideplate compatible) Add Size From 7" To 11" Every .050 Example 381S-7850 (We carry limited sizes pre-made)	10.85
381R-(Size)	**3/8 X .083 One Piece W/.040 Oil Restrictor** (guideplate compatible) Add Size From 7" To 11" Every .050 Example 381R-7850 (Stocked in most popular sizes)	12.50
3121S-(Size)	**3/8 X .120 One Piece W/Shaft Rocker Ball 1/end** (guideplate compatible) Add Size From 7" To 11" Every .050 Example 3121S-9500 (We carry limited sizes pre-made)	15.10
3141S-(Size)	**3/8 X .145 One Piece W/Shaft Rocker Ball 1/end** (guideplate compatible) Add Size From 7" To 11" Every .050 Example 3141S-9500 (We carry limited sizes pre-made)	16.60
791GP-(Size)	**7/16 X .095 One Piece** (guideplate compatible) Add Size To Part Number Example 791GP-9250	18.05
791S-(Size)	**7/16 X .095 One Piece W/Shaft Rocker Ball 1/end** (Won't work with guideplates) Add Size To Part Number Example 791S-9250 (We carry limited sizes pre-made)	18.05
7121GP-(Size)	**7/16 X .120 One Piece** (guideplate compatible) Add Size To Part Number Example 7121GP-9250 (We carry limited sizes pre-made)	20.05
7121S-(Size)	**7/16 X .120 One Piece W/Shaft Rocker Ball 1/end** (Won't work with guideplates) Add Size To Part Number Example 7121S-9250 (We carry limited sizes pre-made)	20.05
7161GP-(Size)	**7/16 X .165 One Piece** (guideplate compatible) Add Size To Part Number Example 7161GP-9250 (We carry limited sizes pre-made)	22.70

continued next page

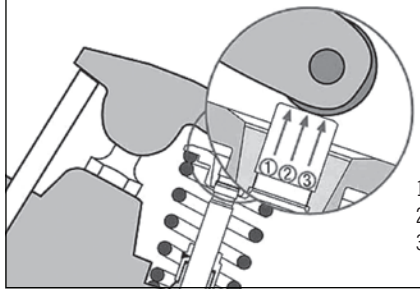
ONE AND TWO PIECE PUSHRODS

One and two piece pushrods (continued)

PART #	DESCRIPTION	RACER NET
7161S-(Size)	**7/16 X .165 One Piece** (Won't work with guideplates) Add Size To Part Number Example 7161S-9250 (We carry limited sizes pre-made)	22.70
12121S-(Size)	**1/2 X .120 One Piece** (Won't work with guideplates) Add Size To Part Number Example 12121S-9250 (We carry limited sizes pre-made)	24.50
12151S-(Size)	**1/2 X .156 One Piece** (Won't work with guideplates) Add Size To Part Number Example 12151S-9250 (We carry limited sizes pre-made)	29.45
12181S-(Size)	**1/2 X .188 One Piece** (Won't work with guideplates) Add Size To Part Number Example 12181S-9250 (We carry limited sizes pre-made)	34.45
9181S-(Size)	**9/16 X .188 One Piece** (Won't work with guideplates) Add Size To Part Number Example 9181S-9250 (We carry limited sizes pre-made)	40.80

Custom Length guide plate compatible 2 piece

PART #	DESCRIPTION		OIL HOLE	RACER NET
CN58C2	NA NIT 5/16 X .083 Ball & Ball	5/16	Yes	14.15
CN5116C2	NA NIT 5/16 X .116 Ball & Ball		Yes	18.85
CN38C2	NA NIT 3/8 X .083 Ball & Ball		Yes	16.45
CN312C2	NA NIT 3/8 X .120 Ball & Ball	3/8	Yes	22.70
CN314C2	NA NIT 3/8 X .145 Ball & Ball		Yes	25.45
CN79C2	NA NIT 7/16 X .095 Ball & Ball		Yes	23.10
CN712C2	NA NIT 7/16 X .120 Ball & Ball	7/16	Yes	25.45
CN716C2	NA NIT 7/16 X .165 Ball & Ball		Yes	30.60



1-Intake side limit
2-Center of stem
3-Exhaust side limit

With stud mounted rocker systems, pushrod length can be adjusted to locate the rocker to valve stem contact point. You should try to get the contact point to where it stays in the center third of the valve stem through the full range of travel.

CUSTOM SMITH BROS. PUSHRODS

Custom

PART #	DESCRIPTION		OIL HOLE	RACER NET
REGULAR 4130 for up to 400 lbs open spring pressure				
NR54A	NA REG 5/16 X .049 Ball/Cup & Ball	5/16	No	9.50
NR54B	NA REG 5/16 X .049 Ball/Cup & Ball		Yes	10.20
NR34A	NA REG 3/8 X .049 Ball/Cup & Ball	3/8	No	8.60
NR34B	NA REG 3/8 X .049 Ball/Cup & Ball		Yes	9.25
HEAT TREATED 4130 for up to 500 lbs open spring pressure				
NH54A	NA HT 5/16 X .049 Ball/Cup & Ball	5/16	No	11.55
NH54B	NA HT 5/16 X .049 Ball/Cup & Ball		Yes	12.20
NH34A	NA HT 3/8 X .049 Ball/Cup & Ball	3/8	No	11.45
NH34B	NA HT 3/8 X .049 Ball/Cup & Ball		Yes	12.00
HEAT TREATED 4130 FOR UP TO 700 lbs open spring pressure				
NH58A	NA HT 5/16 X .083 Ball/Cup & Ball	5/16	No	13.15
NH58B	NA HT 5/16 X .083 Ball/Cup & Ball		Yes	13.80
NH36A	NA HT 3/8 X .065 Ball/Cup & Ball	3/8	No	14.30
NH36B	NA HT 3/8 X .065 Ball/Cup & Ball		Yes	14.95
NH76A	NA HT 7/16 X .065 Ball/Cup & Ball	7/16	No	15.85
NH76B	NA HT 7/16 X .065 Ball/Cup & Ball		Yes	16.50
HEAT TREATED 4130 Chromoly for extreme spring pressures				
NH5116A	NA HT 5/16 X .116 Ball/Cup & Ball	5/16	No	16.55
NH5116B	NA HT 5/16 X .116 Ball/Cup & Ball		Yes	17.15
NH38A	NA HT 3/8 X .083 Ball/Cup & Ball	3/8	No	15.90
NH38B	NA HT 3/8 X .083 Ball/Cup & Ball		Yes	16.55
NH312A	NA HT 3/8 X .120 Ball/Cup & Ball		No	17.95
NH312B	NA HT 3/8 X .120 Ball/Cup & Ball		Yes	18.60
NH314A	NA HT 3/8 X .145 Ball/Cup & Ball		No	19.90
NH314B	NA HT 3/8 X .145 Ball/Cup & Ball		Yes	20.55
NH79A	NA HT 7/16 X .095 Ball/Cup & Ball	7/16	No	19.05
NH79B	NA HT 7/16 X .095 Ball/Cup & Ball		Yes	19.75
NH712A	NA HT 7/16 X .120 Ball/Cup & Ball		No	21.65
NH712B	NA HT 7/16 X .120 Ball/Cup & Ball		Yes	22.20
NH716A	NA HT 7/16 X .165 Ball/Cup & Ball		No	27.00
NH716B	NA HT 7/16 X .165 Ball/Cup & Ball		Yes	27.70
NH212A	NA HT 1/2 X .120 Ball/Cup & Ball	1/2	No	25.35
NH212B	NA HT 1/2 X .120 Ball/Cup & Ball		Yes	26.00

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CUSTOM SMITH BROS. PUSHRODS (continued)

PART #	DESCRIPTION		OIL HOLE	RACER NET
HEAT TREATED 4130 Chromoly for extreme spring pressures (continued)				
NH215A	NA HT 1/2 X .156 Ball/Cup & Ball	1/2	No	27.40
NH215B	NA HT 1/2 X .156 Ball/Cup & Ball		Yes	28.05
NH218A	NA HT 1/2 X .188 Ball/Cup & Ball		No	37.75
NH218B	NA HT 1/2 X .188 Ball/Cup & Ball		Yes	38.40
NH918A	NA HT 9/16 X .188 Ball/Cup & Ball	9/16	No	34.70
NH918B	NA HT 9/16 X .188 Ball/Cup & Ball		Yes	38.85
NH5818A	NA HT 5/8 X .188 Ball/Cup & Ball	5/8	No	49.60
NH5818B	NA HT 5/8 X .188 Ball/Cup & Ball		Yes	50.20

TAPERED PUSHRODS			OIL HOLE	RACER NET
TAPERED 3/8 Taper to 5/16 Pushrods				
TH38SA	3/8 X .083 Single Taper to 5/16	.083	No	23.75
TH38DA	3/8 X .083 Dual Taper to 5/16		No	23.75
TH38SB	3/8 X .083 Single Taper to 5/16		Yes	24.40
TH38DB	3/8 X .083 Dual Taper to 5/16		Yes	24.40
TH312SA	3/8 X .120 Single Taper to 5/16	.120	No	29.45
TH312DA	3/8 X .120 Dual Taper to 5/16		No	29.45
TH312SB	3/8 X .120 Single Taper to 5/16		Yes	30.10
TH312DB	3/8 X .120 Dual Taper to 5/16		Yes	30.10
TH314SA	3/8 X .145 Single Taper to 5/16	.145	No	32.45
TH314DA	3/8 X .145 Dual Taper to 5/16		No	32.45
TH314SB	3/8 X .145 Single Taper to 5/16		Yes	33.10
TH314DB	3/8 X .145 Dual Taper to 5/16		Yes	33.10
7/16 Taper to 3/8 Pushrods				
TH79SA	7/16 X .095 Single Taper to 3/8	.095	No	30.65
TH79DA	7/16 X .095 Dual Taper to 3/8		No	30.65
TH79SB	7/16 X .095 Single Taper to 3/8		Yes	31.30
TH79DB	7/16 X .095 Dual Taper to 3/8		Yes	31.30
TH712SA	7/16 X .120 Single Taper to 3/8	.120	No	31.70
TH712DA	7/16 X .120 Dual Taper to 3/8		No	31.70
TH712SB	7/16 X .120 Single Taper to 3/8		Yes	32.35
TH712DB	7/16 X .120 Dual Taper to 3/8		Yes	32.35
TH716SA	7/16 X .165 Single Taper to 3/8	.165	No	34.85
TH716DA	7/16 X .165 Dual Taper to 3/8		No	34.85
TH716SB	7/16 X .165 Single Taper to 3/8		Yes	35.55
TH716DB	7/16 X .165 Dual Taper to 3/8		Yes	35.55

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CUSTOM SMITH BROS. PUSHRODS (continued)

PART #	DESCRIPTION		OIL HOLE	RACER NET
1/2 Taper to 7/16 or 3/8 Pushrods				
TH212SA	1/2 X .120 Single Taper to 7/16 or 3/8	.120	No	32.45
TH212DA	1/2 X .120 Dual Taper to 7/16 or 3/8		No	32.45
TH212SB	1/2 X .120 Single Taper to 7/16 or 3/8		Yes	33.10
TH212DB	1/2 X .120 Dual Taper to 7/16 or 3/8		Yes	33.10
TH215SA	1/2 X .156 Single Taper to 7/16 or 3/8	.156	No	38.55
TH215DA	1/2 X .156 Dual Taper to 7/16 or 3/8		No	38.55
TH215SB	1/2 X .156 Single Taper to 7/16 or 3/8		Yes	39.20
TH215DB	1/2 X .156 Dual Taper to 7/16 or 3/8		Yes	39.20
TH218SA	1/2 X .188 Single Taper to 7/16 or 3/8	.188	No	42.85
TH218DA	1/2 X .188 Dual Taper to 7/16 or 3/8		No	42.85
TH218SB	1/2 X .188 Single Taper to 7/16 or 3/8		Yes	43.50
TH218DB	1/2 X .188 Dual Taper to 7/16 or 3/8		Yes	43.50
9/16 Taper to 1/2 or 7/16 Pushrods				
TH918SA	9/16 X .188 Single Taper to 1/2 or 7/16	.188	No	46.75
TH918DA	9/16 X .188 Dual Taper to 1/2 or 7/16		No	46.75
TH918SB	9/16 X .188 Single Taper to 1/2 or 7/16		Yes	47.35
TH918DB	9/16 X .188 Dual Taper to 1/2 or 7/16		Yes	47.35
5/8 Taper to 1/2 or 7/16 Pushrods				
TH5818SA	5/8 X .188 Single Taper to 1/2 or 7/16	.188	No	50.60
TH5818DA	5/8 X .188 Dual Taper to 1/2 or 7/16		No	50.60
TH5818SB	5/8 X .188 Single Taper to 1/2 or 7/16		Yes	51.25
TH5818DB	5/8 X .188 Dual Taper to 1/2 or 7/16		Yes	51.25
Aluminum 2024 T-3				
NA56A	NA 5/16 X .058 Ball/Cup & Ball		No	13.65
NA56B	NA 5/16 X .058 Ball/Cup & Ball		Yes	14.25
NA39A	NA 3/8 X .090 Ball/Cup & Ball		No	18.60
NA39B	NA 3/8 X .090 Ball/Cup & Ball		Yes	19.25
Titanium 3AL 2.5V				
NT34A	NA 3/8 X .042 Ball/Cup & Ball		No	40.80
NT34B	NA 3/8 X .042 Ball/Cup & Ball		Yes	41.40
Solid Tool Steel				
TS12-GK	1/2 5/32 R Cup & 3/16 R Ball		No	59.40
TS12-HK	1/2 3/16 R Cup & 3/16 R Ball		No	59.40
TS12ST-GK	1/2 Tapered to 7/16 with 5/32 R Cup & 3/16 R Ball		No	66.00
TS12ST-HK	1/2 Tapered to 7/16 with 3/16 R Cup & 3/16 R Ball		No	66.00

NOTE: We carry a selection of tool steel ends for those applications that may require them. Add $1.80 per end to the price of the pushrod.

ADJUSTABLE / HARLEY DAVIDSON

PART #	DESCRIPTION		OIL HOLE	RACER NET
Adjustable				
Regular 4130 Chromoly				
AR54A	Adj Reg 5/16 X .049 Ball & Ball	5/16	No	12.65
AR54B	Adj Reg 5/16 X .049 Ball & Ball		Yes	13.30
AR34A	Adj Reg 3/8 X .049 Ball & Ball	3/8	No	12.45
AR34B	Adj Reg 3/8 X .049 Ball & Ball		Yes	13.10
Heat Treated 4130 Chromoly				
AH34A	Adj HT 3/8 X .049 Ball & Ball		No	14.20
AH34B	Adj HT 3/8 X .049 Ball & Ball		Yes	14.80
AH36A	Adj HT 3/8 X .065 Ball & Ball		No	20.90
AH36B	Adj HT 3/8 X .065 Ball & Ball		Yes	21.50
AH38A	Adj HT 3/8 X .083 Ball & Ball	3/8	No	23.05
AH38B	Adj HT 3/8 X .083 Ball & Ball		Yes	23.70
AH312A	Adj HT 3/8 X .120 Ball & Ball		No	26.45
AH312B	Adj HT 3/8 X .120 Ball & Ball		Yes	27.05
AH314A	Adj HT 3/8 X .145 Ball & Ball		No	34.20
AH314B	Adj HT 3/8 X .145 Ball & Ball		Yes	34.85
AH76A	Adj HT 7/16 X .065 Ball & Ball		No	22.90
AH76B	Adj HT 7/16 X .065 Ball & Ball	7/16	Yes	23.50
AH79A	Adj HT 7/16 X .095 Ball & Ball		No	32.05
AH79B	Adj HT 7/16 X .095 Ball & Ball		Yes	32.80
Adjustable Length Checker Pushrods				
ALC5	5/16 Ball/Cup & Ball		NA	17.05
ALC3	3/8 Ball/Cup & Ball		NA	16.10
LC5A-K	5/16 Aluminum Length Checker Kit 6”–12” Range		No	66.75
Harley Davidson				
Adjustable Pushrods				
AHD36B	Adj HT Harley 3/8 X .065 5/16 X 32 TPI		Yes	21.65
AHD38B	Adj HT Harley 3/8 X .083 3/8 X 24 TPI		Yes	23.40
AHD312B	Adj HT Harley 3/8 X .120 3/8 X 24 TPI		Yes	24.30
AHD314B	Adj HT Harley 3/8 X .145 3/8 X 24 TPI		Yes	25.90
Harley Davidson Tapered Adjustable Pushrods				
AHD79SB-EVO	Adj HT Evo 7/16 X .095 Single Taper 5/16 X 32 TPI		Yes	37.75
AHD79SB-EVO-FI	Adj HT Evo Fast Install 7/16 X .095 Taper 5/16 X 32 TPI		Yes	37.75
AHD79SB-TC	Adj HT Twin Cam 7/16 X .095 Single Taper 5/16 X 32 TPI		Yes	37.75
AHD79SB-TC-FI	Adj HT Twin Cam Fast Install 7/16 X .095 Single Taper 5/16 X 32 TPI		Yes	37.75
AHD712SB	Adj HT Evo 7/16 X .120 Single Taper 3/8 X 24 TPI		Yes	41.60
AHD716SB	Adj HT 7/16 X .165 Single Taper 3/8 X 24 TPI		Yes	49.90
Harley Davidson Fast Install Kits				
AHD313B-TC-KIT	Twin Cam EZ Install Kit 3/8 X . 134 7/16 X 20 TPI – Also available for M8		Yes	139.50
PC-BLK-KIT	Harley Pushrod Cover Kit for TC & M8 (Set of 4 Assy), Billet Alum		NA	115.05
AHD79SB-EVOFI-K	Adj HT Evo Fast Install 7/16 X .095 Single Taper 5/16 X 32 TPI		Yes	160.80
AHD79SB-TCFI-K	Adj HT Twin Cam 7/16 X .095 Single Taper 5/16 X 32 TPI		Yes	160.80

ROCKER ARM COMPONENTS

PART #	DESCRIPTION	OIL HOLE	RACER NET
Rocker Arm Screws			
BAS5516A-125	5/16 x 24 TPI Ball Rocker Screw 5/32 Radius 1.250 Long	No	5.05
BAS9516B-119	5/16 x 24 TPI Ball Rocker Screw 9/64 Radius 1.190 Long	Yes	5.90
BAS538A-125	3/8 X 24 TPI Ball Rocker Screw 5/32 Radius 1.250 Long	No	5.05
BAS538B-125	3/8 X 24 TPI Ball Rocker Screw 5/32 Radius 1.250 Long	Yes	5.90
BAS538A-14	3/8 X 24 TPI Ball Rocker Screw 5/32 Radius 1.400 Long	No	5.05
BAS538A-15	3/8 X 24 TPI Ball Rocker Screw 5/32 Radius 1.500 Long	No	5.05
BAS338A-14	3/8 X 24 TPI Ball Rocker Screw 3/16 Radius 1.400 Long	No	5.05
BAS338B-14	3/8 X 24 TPI Ball Rocker Screw 3/16 Radius 1.400 Long	Yes	5.90
BAS338A-15	3/8 X 24 TPI Ball Rocker Screw 3/16 Radius 1.500 Long	No	5.05
BAS5716A-14	7/16 X 20 TPI Ball Rocker Screw 5/32 Radium 1.400 Long	No	5.05
BAS5716A-15	7/16 X 20 TPI Ball Rocker Screw 5/32 Radius 1.500 Long	No	5.05
BAS3716A-14	7/16 X 20 TPI Ball Rocker Screw 3/16 Radius 1.400 Long	No	5.05
BAS3716B-14	7/16 X 20 TPI Ball Rocker Screw 3/16 Radius 1.400 Long	Yes	6.35
BAS3716CB-1225	7/16 X 20 TPI Ball Rocker Screw 3/16 Radius Cross Drilled 1.225 Long	Yes	12.65
BAS3716CB-13-T	7/16 x 20 TPI Ball Rocker Screw 3/16 Radius Cross Drilled 1.300 Long Tool Steel	Yes	22.15
FERAS	3/16 Radius Ball Rocker Screw 1.400 Long Replacement for original FE Ford	No	7.90
CAS5516B-13	5/16 x 24 TPI Cup Rocker Screw 5/32 Radius 1.300 Long	Yes	10.30
CAS538B-1	3/8 X 24 TPI Cup Rocker Screw 5/32 Radius 1.000 Long	Yes	10.30
CAS538B-125	3/8 X 24 TPI Cup Rocker Screw 5/32 Radius Cup 1.250 Long	Yes	10.30
CAS538B-150	3/8 x 24 TPI Cup Rocker Screw 5/32 Radius Cup 1.500 Long	Yes	10.30

ROCKER ARM COMPONENTS

PART #	DESCRIPTION		OIL HOLE	RACER NET
Jam Nuts				
ASJN516	5/16 X 24 THD Jam Nut 12-pt			2.35
ASJN38	3/8 X 24 THD Jam Nut 12-pt			2.35
ASJN716	7/16 X 20 THD Jam Nut 12-pt			2.35
Rocker Arm Screw Sets				
BAS538A-125-16	16/ea BAS538A-125 Screws & ASJN38 Nuts		No	101.00
BAS538A-14-16	16/ea BAS538A-14 Screws & ASJN38 Nuts		No	101.00
BAS538A-15-16	16/ea BAS538A-15 Screws & ASJN38 Nuts		No	101.00
BAS338A-14-16	16/ea BAS338A-14 Screws & ASJN38 Nuts		No	101.00
BAS338A-15-16	16/ea BAS338A-15 Screws & ASJN38 Nuts		No	101.00
BAS338B-14-16	16/ea BAS338B-14 Screws & ASJN38 Nuts		Yes	112.20
BAS5716A-14-16	16/ea BAS5716A-14 Screws & ASJN716 Nuts		No	107.70
BAS5716A-15-16	16/ea BAS5716A-15 Screws & ASJN716 Nuts		No	107.70
BAS3716A-14-16	16/ea BAS3716A-14 Screws & ASJN716 Nuts		No	107.70
BAS3716B-14-16	16/ea BAS3716B-14 Screws & ASJN716 Nuts		Yes	118.20
CAS5516B-13-16	16/ea CAS5516B-13 Screws & ASJN516 Nuts		Yes	172.05
CAS538B-1-16	16/ea CAS538B-1 Screws & ASJN38 Nuts		Yes	172.05
CAS538B-125-16	16/ea CAS538B-125 Screws & ASJN38 Nuts		Yes	172.05
CAS538B-150-16	16/ea CAS538B-150 Screws & ASJN38 Nuts		Yes	172.05

Rocker Arm Trunnion Kits

SBLST-KIT	Chevy LS Rocker Trunnion Kit	191.00
SB24V-KIT	Cummins 24 Valve Trunnion Kit	320.00

PUSHROD ORDER FORM

The following information is required to determine your specific pushrod needs and to process your order for shipment. In certain applications, a sample pushrod may be required to determine the correct dimensions for both length and end type. Custom pushrods are made to order and may be eligible for up to 50% credit, at our discretion.

Name _____ Date _____

Shipping Address _____

City _____ State _____ Zip _____

Work Phone _____ Home Phone _____ Fax _____

Credit Card Number _____ Expiration Date _____ CID # *(3 digit code on back of card)* _____

Email Address _____

Shipping: ❑ UPS Ground ❑ UPS 3-Day ❑ UPS 2-Day ❑ UPS Next Day ❑ Priority Mail (shipped following day)

Engine (Make, Year, Cu. In.) _____

Open Valve Spring Pressure _____ Rocker Brand / Type _____ Tube Diameter _____

Will Guideplates Be Used? ❑ Yes ❑ No Oil Holes In Ends? ❑ Yes ❑ No ❑ Straight Wall ❑ Single Taper ❑ Double Taper

Use part number chart on page 2 to determine part number for your application:

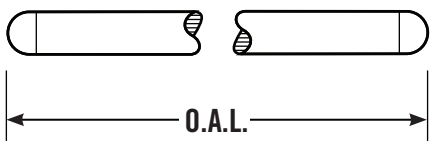
Part # _____ Length _____ ❑ OA* ❑ EL** Qty _____

Part # _____ Length _____ ❑ OA* ❑ EL** Qty _____

* OA = Over All (top of cup)
** EL = Effective Length (from bottom of cup)

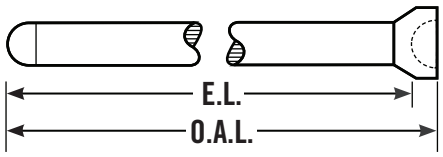
Place "X" in box for your type of pushrod:

❑



BALL TO BALL

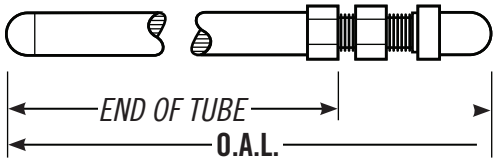
❑



BALL TO CUP

❑

NOTE: Adjustable tip is measured at half its travel



BALL TO ADJUSTABLE TIP

Tube diameters are as follows: 5/16 • 3/8 • 7/16 • 1/2 • 9/16 • 5/8 in 4130 Chromoly. Your open spring pressure determines what wall thickness is required. 5/16 and 3/8 2024 T-3 aluminum and 3/8 x.042 titanium are also available.

SMITH BROTHERS PUSHRODS
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