



As cam profiles get more aggressive and valve spring pressures increase, the importance of selecting the right pushrods has never been more critical. COMP Cams® carries a wide selection of precision pushrods to handle any application from stock replacement to hardcore race.



## Magnum Checking Pushrods

These tools make it easy and economical to lay out and determine proper pushrod length during a high performance engine rebuild. This is necessary for correct valve train geometry to obtain the desired results from the cam and to ensure damage is not done to the rest of the valve train. They are made from a thin wall 5/16" pushrod that is cut and threaded with over one inch travel. They feature a 5/16" ball on each end.

Part #	Description	Adjustable	
		From	To
7905-1	Individual Length Checker	6.125"	7.500"
7901-1	Individual Length Checker	7.500"	8.700"
7902-1	Individual Length Checker	8.500"	9.800"
7903-1	Individual Length Checker	9.700"	11.000"
7904-1	Individual Length Checker	10.200"	11.500"
7900	Master Pushrod Checking Kit - Contains 1 Each: #7901, #7902, #7903, #7904 & #7905	6.125"	11.500"

See pages 264-265 for instructions to check pushrod geometry

## Hi-Tech™ Checking Pushrods

The COMP Cams® Hi-Tech™ Pushrod Length Checking Tools are precision crafted from steel alloy and black oxide for years of accurate measurements. The unique design is easy to read and eliminates the need for expensive calipers. Each complete revolution is equal to .050". Having the correct length pushrods in your engine is a critical factor in proper rocker arm geometry and this is the best tool to measure pushrod length.

Part #	Description	Adjustable	
		From	To
7701-1	Individual Length Checker	5.800"	6.800"
7702-1	Individual Length Checker	6.800"	7.800"
7703-1	Individual Length Checker	7.800"	8.800"
7704-1	Individual Length Checker	8.800"	9.800"
7706-1	Individual Length Checker	9.800"	10.800"
7707-1	Individual Length Checker	10.800"	11.800"
7708-1	Individual Length Checker	11.800"	12.800"
7709-1	Length Checker w/ 5/16" Cup End	6.800"	7.800"
7711-1	Length Checker w/ 5/16" Cup End	7.800"	8.800"
7719-1	Length Checker w/ 5/16" Cup End	8.800"	9.800"
7710-1	Length Checker w/ 5/16" Cup End	9.800"	10.800"
7712-1	Length Checker w/ 5/16" Cup End	10.800"	11.800"
7705	Master Pushrod Checking Kit - Contains 1 Each: #7701, #7702, #7703, #7704	5.800"	9.800"

See pages 264-265 for instructions to check pushrod geometry

## Pushrod Cleaning Brush

Finally, there is a simple solution to thoroughly cleaning the internal oil passages of center oiling pushrods. The new COMP Cams® Pushrod Cleaning Brush is specifically designed to handle the task and built to withstand repeated use with nylon bristles and a durable steel shaft.

Part #	Description
7700	Pushrod Cleaning Brush 12" Length

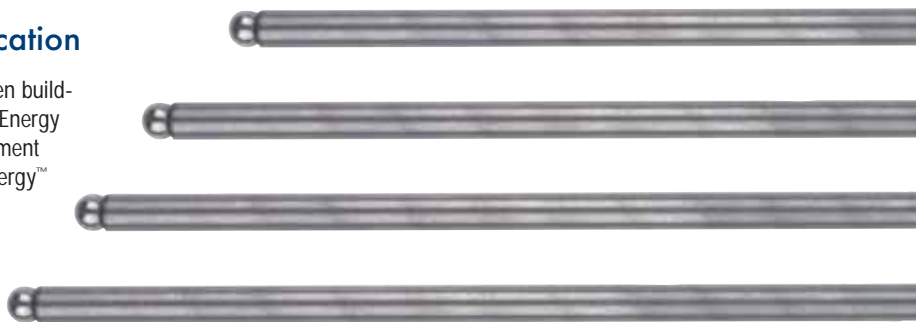


CHECKING PUSHRODS

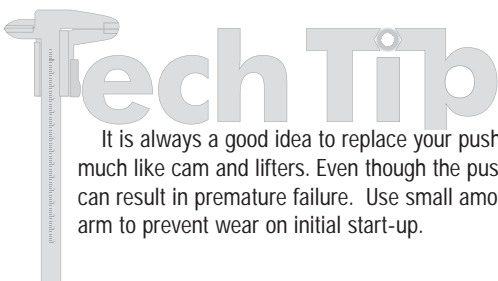


## High Energy Pushrods™ - Listed By Application

COMP Cams® High Energy Pushrods™ are your best choice when building the engine for your street rod, RV, or daily driver engine. High Energy Pushrods™ are manufactured to meet or exceed all original equipment specifications for pushrods. They will mate perfectly with High Energy™ or Magnum Rockers.



Make	Part #	Description	Use With Guide Plates	Diameter	Actual Length	Type End	
AMC	7812-16	V8 290-401, Most 1970-Up	Yes	5/16"	7.794"	H-H	
Buick	7892-16	V8 350, 1968-69	No	5/16"	9.668"	H-H	
	7861-16	V8 350, 1970-81	No	5/16"	9.677"	H-H	
	7896-16	V8 455, 1970-76	No	5/16"	9.378"	H-H	
	7869-12	V6 All, 1962-85	No	5/16"	8.684"	H-H	
	7861-8	4 Cyl. 151, 1977-78	No	5/16"	9.682"	H-H	
Chevrolet	7861-8	4 Cyl. 153. 1962-70 & Marine	No	5/16"	9.682"	H-H	
	7861-12	6 Cyl. 194-250, 1962-84	No	5/16"	9.682"	H-H	
	7816-12	V6 173 (60°), 1980-86	Yes	5/16"	6.165"	H-H	
	7812-12	V6 200-262, 1978-86, Hardened Replacement	Yes	5/16"	7.794"	H-H	
	7808-16	V8 262-400 w/ OE Hydraulic Roller Cam 1987-Present	Yes	5/16"	7.205"	H-H	
	7809-16	V8 262-400 w/ Retro-Fit Hydraulic Roller Cam 1955-Present w/ Flat Tappet	Yes	5/16"	7.266"	H-H	
	7812-16	V8 262-400, 1955-Present w/ Flat Tappet	Yes	5/16"	7.794"	H-H	
	7813-8	V8 396-454 Intake w/ Retro-Fit Hydraulic Roller Cam 65-Present	Yes	3/8"	7.725"	H-H	
	7814-8	V8 396-454 Exhaust w/ Retro-Fit Hydraulic Roller Cam 1965-Present	Yes	3/8"	8.684"	H-H	
	7815-16	V8 396-454 Retro-Fit Pushrod Set, Intake & Exhaust 1965-Present (8)-#7813 Intake (8)-#7814 Exhaust	Yes	3/8"	7.725" Int 8.684" Ex	H-H	
	7811-8	V8 396-454, Intake, Hardened Replacement	Yes	3/8"	8.280"	H-H	
	7881-8	V8 396-454, Exhaust, Hardened Replacement	Yes	3/8"	9.252"	H-H	
	7854-16	V8 396-454, 1965-86 (#7811 Intake, #7881 Exhaust) Standard Length, Standard Block	Yes	3/8"	8.280" Int 9.252" Ex	H-H H-H	
	Chrysler	7864-12	6 Cyl. 198-225, 1960-80 w/ Mechanical Cam	No	5/16"	9.954"	A-C
		7820-16	V8 273-360, 1964-86	No	5/16"	7.500"	B-B
7821-16		V8 273-360, 1964-86 Hyd. Cam w/ Adjustable Rockers	No	5/16"	7.389"	A-C	
7822-16		V8 273-360, 1964-86 Solid w/ Adjustable Rockers	No	5/16"	7.497"	A-C	
7883-16		V8 383-400, 1968-78 w/ Non-Adjustable Rockers	No	5/16"	8.575"	B-B	
7840-16		V8 440, 1968-78 w/ Non-Adjustable Rockers	No	5/16"	9.315"	B-B	



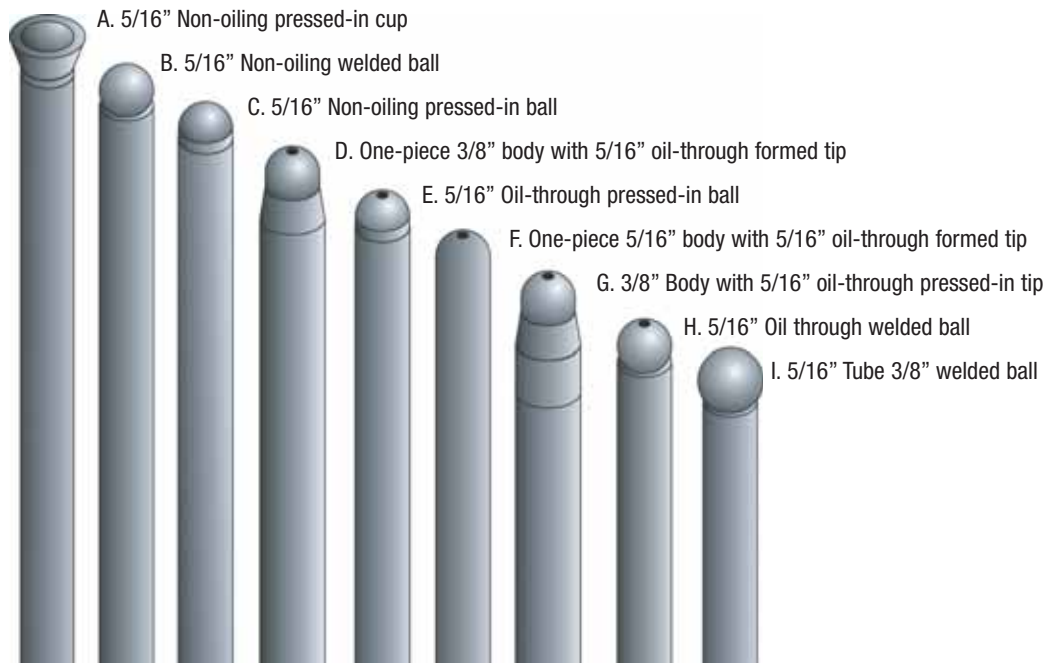
It is always a good idea to replace your pushrods when you install new rockers. Pushrods and rockers wear together much like cam and lifters. Even though the pushrods may not show any wear, installing new rockers on old pushrods can result in premature failure. Use small amount of Valve Train Assembly Spray (Part #106) on tip of pushrod at rocker arm to prevent wear on initial start-up.

All parts on this page are 50-state legal.

## High Energy Pushrods™ - Listed By Application Cont'd

Make	Part #	Description	Use With Guide Plates	Diameter	Actual Length	Type End
Ford	7865-12	6 Cyl. 170-200, 1965-83	No	5/16"	8.350"	I-I
	7866-12	6 Cyl. 240-300, 1965-84	No	5/16"	10.136"	H-H
	7836-12	V6 171 (2800cc), 1974-86	No	5/16"	5.429"	A-B
	7831-16	V8 255 & 302, 1965-Present w/ Flat Tappet	Yes	5/16"	6.881"	H-H
	7826-16	V8 302 w/ OEM Hydraulic Roller Cam 1985-Present	Yes	5/16"	6.248"	H-H
	7827-16	V8 255-302 .060" Short, 1968-85	No	5/16"	6.821"	H-H
	7828-16	V8 255-302 .060" Long, 1968-85	No	5/16"	6.936"	H-H
	7819-16	V8 302 Retro-Fit Hydraulic Roller	Yes	5/16"	6.400"	H-H
	7835-16	V8 351W, 1969-78	No	5/16"	8.152"	H-H
	7829-16	V8 351W .060" Short, 1969-78	No	5/16"	8.096"	H-H
	7830-16	V8 351W .060" Long, 1969-78	No	5/16"	8.212"	H-H
	7823-16	V8 351W Retro-Fit Hydraulic Roller	Yes	5/16"	7.694"	H-H
	7832-16	V8 351C & Cobra Jet, 1970-74	No	5/16"	8.412"	H-H
	7825-16	V8 351C Retro-Fit Hydraulic Roller	Yes	5/16"	7.870"	H-H
	7837-16	V8 351M & 400M, 1971-79	No	5/16"	9.500"	H-H
	7838-16	V8 351M & 400M .060" Short, 1971-79	No	5/16"	9.440"	H-H
	7839-16	V8 351M & 400M .060" Long, 1971-79	No	5/16"	9.560"	H-H
	7824-16	V8 351M & 400M Retro-Fit Hydraulic Roller	Yes	5/16"	8.903"	H-H
	7833-16	V8 352-428, 1965-72 Factory Non-Adjustable Rockers Only	No	5/16"	9.621"	C-C
	Oldsmobile	7834-16	V8 429-460, 1972-78	No	5/16"	8.550"
7843-16		V8 429-460 .060" Short, 1972-78	No	5/16"	8.500"	H-H
7844-16		V8 429-460 .060" Long, 1972-78	No	5/16"	8.616"	H-H
7842-16		V8 260-403, 1971-1979	No	5/16"	8.234"	H-H
Pontiac	7845-16	V8 400-455, 1971-79	Yes	5/16"	9.748"	H-H
	7841-16	Special for 455 Rocker Kit (#1442-KIT)	Yes	5/16"	9.654"	H-H
	7843-16	Special for 350 and 403 Rocker Kit (#1441-KIT)	Yes	5/16"	8.490"	H-H
	7851-16	V8 350-455, 1955-79	Yes	5/16"	9.146"	H-H

### Pushrod End Type



All parts on this page are 50-state legal.

## Magnum Pushrods - Listed By Application

The Magnum 5/16" and 3/8" Pushrods offer an affordable solution for your .080" wall chromemoly pushrod needs. Designed to withstand the stresses of a high performance engine, these pushrods are heat-treated for extended durability and may be ordered in sets of 8, 16, or as single pieces.

- One-piece .080" wall chromemoly steel tubing
- Heat-treated for extended durability & guide plate compatibility
- Precision formed & reinforced pushrod ends
- Black oxide finished and laser etched part number & length
- Ideal for street performance and mild race applications

Make	Part #	Description	Use With Guide Plates	Diameter	Overall Length	Type End
Chevrolet	7608-16	V8 265-400 + 90° V6 200-262 w/ OEM Hydraulic Roller Cam	Yes	5/16"	7.200"	F-F
	7609-16	V8 265-400 + 90° V6 w/ Retro-Fit Hydraulic Roller Cam	Yes	5/16"	7.300"	F-F
	7372-16	V8 265-400 + 90° V6 200-262, Hardened Stock Length	Yes	5/16"	7.800"	F-F
	7693-16	V8 265-400 + 90° V6 200-262, +.100" Hardened	Yes	5/16"	7.900"	F-F
	7694-16	V8 265-400 + 90° V6 200-262, +.150" Hardened	Yes	5/16"	7.950"	F-F
	7695-16	V8 265-400 + 90° V6 200-262, +.200" Hardened	Yes	5/16"	8.000"	F-F
	7472-16	V8 265-400 + 90° V6 200-262, +.350" Hardened	Yes	5/16"	8.144"	F-F
	7513-16	V8 265-400 + 90° V6 200-262, Hardened Stock Length	Yes	3/8"	7.800"	D-D
	7684-16	V8 265-400 + 90° V6 200-262, +.100" Hardened	Yes	3/8"	7.900"	D-D
	7154-16	V8 396-454, #7131 Intake - #7141 Exhaust (Standard Length, Standard Block)	Yes	3/8"	8.280" Int 9.250" Ex	D-D D-D
	7131-8	V8 396-454, Intake Stock Length (Standard Length, Standard Block)	Yes	3/8"	8.280"	D-D
	7141-8	V8 396-454, Exhaust Stock Length (Standard Length, Standard Block)	Yes	3/8"	9.250"	D-D
	7654-16	V8 366-427, #7651 Intake - #7661 Exhaust (Truck & Marine Tall Deck Block)	Yes	3/8"	8.680" Int 9.652" Ex	D-D
	7651-8	V8 366-427, Intake (Truck & Marine Tall Deck Block)	Yes	3/8"	8.680"	D-D
	7661-8	V8 366-427, Exhaust (Truck & Marine Tall Deck Block)	Yes	3/8"	9.650"	D-D
Chrysler	7592-16	V8 273-360, w/ Non-Adjustable Rockers	No	5/16"	7.513"	C-C
	7692-16	V8 273-360, w/ Adjustable Rockers	No	5/16"	7.342"	A-C
	7402-16	V8 383-400, w/ Non-Adjustable Rockers	No	5/16"	8.555"	C-C
	7422-16	V8 383-400, w/ Adjustable Rockers	No	3/8"	8.555"	A-C
	7412-16	V8 440, w/ Non-Adjustable Rockers	No	5/16"	9.295"	C-C
	7432-16	V8 440, w/ Non-Adjustable Rockers	No	3/8"	9.295"	A-C
	7442-16	V8 440, w/ Adjustable Rockers	No	3/8"	9.030"	A-C
	7632-16	Special for Dodge Magnum Rocker Kit (#1425-KIT)	Yes	5/16"	6.800"	F-F
Ford	7632-16	V8 221-302, 1962-69	Yes	5/16"	6.800"	F-F
	7631-16	V8 302, 1969-85 Non-Roller, Non-H.O.	Yes	5/16"	6.900"	F-F
	7492-16	V8 Boss 302, 1969-70 Boss	Yes	5/16"	7.605"	E-E
	7472-16	V8 351W, 1969-78	Yes	5/16"	8.150"	F-F
	7502-16	V8 351C (Cobra Jet), 1970-74	Yes	5/16"	8.400"	F-F
	7522-16	V8 351C, 1970-74	Yes	3/8"	8.400"	D-D
	7532-16	V8 Boss 351C, 1971-72	Yes	3/8"	8.492"	G-G
	7533-16	V8 352-428, 1965-76 w/ Adjustable Rockers	No	11/32"	9.157"	*
Oldsmobile	7651-16	V8 429-460, 1969-71	Yes	3/8"	8.680"	D-D
	7131-16	V8 260-403, .046" Longer Than Stock	Yes	3/8"	8.280"	D-D
	7582-16	V8 400 & 455, Hardened Replacement	Yes	5/16"	9.547"	E-E
Pontiac	7664-16	V8 400 & 455, +.100" Hardened	Yes	3/8"	9.647"	G-G
	7262-16	V8 350-455, 1968-79	Yes	5/16"	9.130"	F-F
	7263-16	V8 350-455, 1968-79 w/ Solid Lifter Cam	Yes	5/16"	9.300"	F-F

\* 3/8" Non-oiling cup with 3/8" non-oiling ball ends

All parts on this page are 50-state legal.

## Magnum Pushrods - Listed By Length

The Magnum 5/16" and 3/8" Pushrods offer an affordable solution for your .080" wall chromemoly pushrod needs. Designed to withstand the stresses of a high performance engine, these pushrods are heat-treated for extended durability and may be ordered in sets of 8, 16, or as single pieces.

- One-piece .080" wall chromemoly steel tubing
- Heat-treated for extended durability & guide plate compatibility
- Precision formed & reinforced pushrod type ends
- Black oxide finished and laser etched part number & length
- Ideal for street performance and mild race applications



### 5/16" Diameter Magnum Pushrods

Part #	Length
7620-16	6.200"
7621-16	6.250"
7622-16	6.300"
7623-16	6.750"
7632-16	6.800"
7633-16	6.850"
7631-16	6.900"
7634-16	6.950"
7635-16	7.150"
7608-16	7.200"
7636-16	7.250"
7609-16	7.300"
7637-16	7.350"
7638-16	7.400"
7639-16	7.450"
7640-16	7.500"
7641-16	7.550"
7492-16	7.605"
7642-16	7.650"
7643-16	7.700"
7644-16	7.750"
7372-16	7.800"
7645-16	7.850"
7693-16	7.900"
7694-16	7.950"
7695-16	8.000"
7472-16	8.150"
7646-16	8.250"
7647-16	8.350"
7502-16	8.400"
7648-16	8.450"
7649-16	8.500"
7650-16	8.600"
7652-16	8.900"
7262-16	9.130"
7653-16	9.200"
7263-16	9.300"
7655-16	9.450"
7656-16	9.500"
7582-16	9.547"
7657-16	9.600"
7658-16	9.650"
7659-16	9.700"
7660-16	9.750"
7662-16	9.800"

### 3/8" Diameter Magnum Pushrods

Part #	Length
7155-16	6.850"
7156-16	6.900"
7157-16	7.150"
7158-16	7.200"
7159-16	7.250"
7160-16	7.300"
7161-16	7.350"
7162-16	7.400"
7163-16	7.450"
7164-16	7.750"
7513-16	7.800"
7165-16	7.850"
7684-16	7.900"
7166-16	7.950"
7167-16	8.200"
7168-16	8.250"
7131-16	8.280"
7169-16	8.300"
7170-16	8.350"
7522-16	8.400"
7171-16	8.450"
7532-16	8.492"
7172-16	8.550"
7173-16	8.650"
7651-16	8.680"
7174-16	8.700"
7175-16	8.750"
7176-16	9.100"
7177-16	9.150"
7178-16	9.200"
7141-16	9.250"
7179-16	9.300"
7180-16	9.600"
7664-16	9.647"
7661-16	9.650"
7181-16	9.700"
7182-16	9.750"
7183-16	9.800"

All parts on this page are 50-state legal.

## Hi-Tech™ Pushrods - Listed By Application

COMP Cams® engineers have found that the pushrod is one of the most important members of the valve train and certainly the most taken for granted. Prior to extensive research at COMP Cams®, it was thought that the pushrod only had to be strong enough not to fail, bend or burn up at the ends. Now our engineers have learned that the frequency of the pushrod must match that of all the rest of the parts in the valve train, as well as the rpm at which the engine will be run. Today's all out race engines demand the highest quality components at every step and COMP Cams® Hi-Tech™ Pushrods fill that requirement.

The one-piece design from .080" wall seamless chromemoly tubing ensures the ultimate in strength and durability. The ends are precision formed, yielding added thickness in the critical tip area for strength, while maintaining constant wall thickness and concentricity. The pushrods are then heat-treated to ensure compatibility with guide plates and for maximum strength. They are OD ground for consistency and black oxide finished with a length and part number laser etched on the OD for ease of identification.

Hi-Tech™ Pushrods with a .065" wall thickness can be found on page 258 and Hi-Tech™ Pushrods listed by length can be found on pages 256-257. Hi-Tech™ Pushrods can be ordered in sets of 8, 16, or as single pieces.



- One-piece construction from .080" wall seamless chromemoly
- Heat-treated for extended durability & guide plate compatibility
- Precision formed & reinforced 5/16" ball type ends
- Black oxide finished and laser etched part number & length
- Ideal for serious street performance and race applications

Make	Part #	Description	Diameter/ Wall Thickness	Length
Small Block Chevrolet	7940-16	-.600" Short Standard Length OE Hydraulic Roller Lifter	5/16" / .080"	7.200"
	7944-16	-.550" Short	5/16" / .080"	7.250"
	7949-16	-.500" Short Retro-Fit Standard Length Hydraulic Roller Lifter	5/16" / .080"	7.300"
	7950-16	-.450" Short	5/16" / .080"	7.350"
	7963-16	-.100" Short	5/16" / .080"	7.700"
	7970-16	-.050" Short	5/16" / .080"	7.750"
	7972-16	Standard Length Small Block Chevrolet	5/16" / .080"	7.800"
	7974-16	+.050" Long	5/16" / .080"	7.850"
	7993-16	+.100" Long	5/16" / .080"	7.900"
	7994-16	+.150" Long	5/16" / .080"	7.950"
	7995-16	+.200" Long	5/16" / .080"	8.000"
	7996-16	+.250" Long	5/16" / .080"	8.050"
	7997-16	+.300" Long	5/16" / .080"	8.100"
	7913-16	Standard Length Small Block Chevrolet, 3/8" Diameter	3/8" / .080"	7.800"
7984-16	+.100" Long, 3/8" Diameter	3/8" / .080"	7.900"	
New GM Gen III/LS1/LS2/LS6	7949-16	-.100" Short	5/16" / .080"	7.300"
	7794-16	-.075" Short	5/16" / .080"	7.325"
	7950-16	-.050" Short	5/16" / .080"	7.350"
	7795-16	-.025" Short	5/16" / .080"	7.375"
	7955-16	Standard Length GM Gen III/LS1/LS2/LS6	5/16" / .080"	7.400"
	7796-16	+.025" Long	5/16" / .080"	7.425"
	7956-16	+.050" Long	5/16" / .080"	7.450"
	7797-16	+.075" Long	5/16" / .080"	7.475"
	7957-16	+.100" Long	5/16" / .080"	7.500"



Correct pushrod length not only allows your engine to perform its best, it also extends the life of valve stems and valve guides. See page 249 for our complete selection of checking pushrods.

All parts on this page are 50-state legal.

Hi-Tech™ Pushrods - Listed By Application Cont'd

Make	Part #	Description	Diameter/ Wall Thickness	Length	
Big Block Chevrolet	7931-8	Standard Length Big Block Intake	3/8" / .080"	8.280"	
	7941-8	Standard Length Big Block Exhaust	3/8" / .080"	9.250"	
	7954-16	Standard Length Big Block Chevrolet Set (8) - #7931 Intake and (8) - #7941 Exhaust	3/8" / .080"	8.280" 9.250"	
	7969-8	Standard Big Block +.100" Long Intake	3/8" / .080"	8.380"	
	7979-8	Standard Big Block +.100" Long Exhaust	3/8" / .080"	9.350"	
	7982-16	Standard Big Block +.100" Long Set (8) - #7969 Intake and (8) - #7979 Exhaust	3/8" / .080"	8.380" 9.350"	
	7951-8	Standard Length Big Block Tall Deck Intake	3/8" / .080"	8.680"	
	7961-8	Standard Length Big Block Tall Deck Exhaust	3/8" / .080"	9.650"	
	7964-16	Standard Length Big Block Tall Deck Set (8) - #7951 Intake and (8) - #7961 Exhaust	3/8" / .080"	8.680" 9.650"	
	7968-8	+ .100" Long Big Block Tall Deck Intake	3/8" / .080"	8.780"	
	7978-8	+ .100" Long Big Block Tall Deck Exhaust	3/8" / .080"	9.750"	
	7942-16	+ .100" Long Big Block Tall Deck Set (8) - #7968 Intake and (8) - #7978 Exhaust	3/8" / .080"	8.780" 9.750"	
	7911-8	Standard Length Big Block Intake	7/16" / .125"	8.275"	
	7988-8	Standard Length Big Block Exhaust	7/16" / .125"	9.250"	
	7962-16	Standard Length Big Block Set (8) - #7911 Intake and (8) - #7988 Exhaust	7/16" / .125"	8.275" 9.250"	
	7943-8	Standard Length Big Block Tall Deck Intake	7/16" / .125"	8.675"	
	7953-8	Standard Length Big Block Tall Deck Exhaust	7/16" / .125"	9.650"	
	7952-16	Standard Length Big Block Tall Deck Set (8) - #7943 Intake and (8) - #7953 Exhaust	7/16" / .125"	8.675" 9.650"	
	Ford 6 Cylinder	7971-12	-.050" Short Ford 6 Cyl., 1965-1983 120-200	5/16" / .080"	8.300"
		7973-12	Standard Length Ford 6 Cyl., 1965-1983 120-200	5/16" / .080"	8.350"
7945-12		+.050" Long Ford 6 Cyl., 1965-1983 120-200	5/16" / .080"	8.400"	
Small Block Ford	7929-16	Standard Length Ford '62-'69 221-302	5/16" / .080"	6.800"	
	7930-16	+.050" Long Ford '62-'69 221-302	5/16" / .080"	6.850"	
	7933-16	+.100" Long Ford '62-'69 221-302	5/16" / .080"	6.900"	
	7930-16	Standard Length Ford '68-'85 255 and 302	5/16" / .080"	6.850"	
	7935-16	+.100" Long Ford '68-'85 255 and 302	5/16" / .080"	6.950"	
	7997-16	-.050" Short Ford '69-'78 351W	5/16" / .080"	8.100"	
	7965-16	Standard Length Ford '69-'78 351W	5/16" / .080"	8.150"	
	7966-16	+.050" Long Ford '69-'78 351W	5/16" / .080"	8.200"	
	7945-16	Standard Length Ford '70-'74 351C and Cobra Jet	5/16" / .080"	8.400"	
	7975-16	+.050" Long Ford '70-'74 351C and Cobra Jet	5/16" / .080"	8.450"	
	7976-16	+.100" Long Ford '70-'74 351C and Cobra Jet	5/16" / .080"	8.500"	
	7976-16	Standard Length Ford '71 and '72 Boss 351	5/16" / .080"	8.500"	
	7932-16	Standard Length Ford '71 and '72 Boss 351	3/8" / .080"	8.500"	
Big Block Ford	7976-16	-.050" Short Ford '72-'78 429-460	5/16" / .080"	8.500"	
	7948-16	Standard Length Ford '72-'78 429-460	5/16" / .080"	8.550"	
	7977-16	+.050" Long Ford '72-'78 429-460	5/16" / .080"	8.600"	
	7992-16	-.100" Short Ford '72-'78 429-460	3/8" / .080"	8.450"	
	7934-16	Standard Length Ford '72-'78 429-460	3/8" / .080"	8.550"	
	7951-16	Standard Length Ford '69-'71 429-460	3/8" / .080"	8.680"	
	7968-16	+.100" Long Ford '69-'71 429-460	3/8" / .080"	8.780"	
	Small Block Chrysler Non-Adjustable Rockers	7956-16 <sup>A</sup>	-.050" Short Chrysler "A" 273-360	5/16" / .080"	7.450"
7957-16 <sup>A</sup>	Standard Length Chrysler "A" 273-360	5/16" / .080"	7.500"		
7958-16 <sup>A</sup>	+.050" Long Chrysler "A" 273-360	5/16" / .080"	7.550"		
Big Block Chrysler Non-Adjustable Rockers	7934-16 <sup>A</sup>	Standard Length Chrysler "B" 383-400	3/8" / .080"	8.550"	
	7977-16 <sup>A</sup>	+.050" Long Chrysler "B" 383-400	5/16" / .080"	8.600"	
	7923-16 <sup>A</sup>	Standard Length Chrysler "RB" 413-440	3/8" / .080"	9.300"	
	7979-16 <sup>A</sup>	+.050" Long Chrysler "RB" 413-440	3/8" / .080"	9.350"	
Chrysler 5.7L Hemi	7974-8	Standard Length 5.7L Hemi Intake	5/16" / .080"	7.850"	
	7769-8	Standard Length 5.7L Hemi Exhaust	5/16" / .080"	6.600"	
	7914-16	Standard Length 5.7L Hemi Set (8) - #7974-8 Intake and (8) - #7769-8 Exhaust	5/16" / .080"	6.600" 7.850"	

## Hi-Tech™ 5/16" Pushrods - Listed By Length

Hi-Tech™ Pushrods feature a one-piece design from .080" wall seamless chromemoly tubing that ensures the ultimate in strength and durability. The ends are precision formed, yielding added thickness in the critical tip area for strength, while maintaining constant wall thickness and concentricity. The pushrods are then heat-treated to ensure compatibility with guide plates and for maximum strength. All Hi-Tech™ Pushrods can be ordered in sets of 8, 16, or as single pieces.

COMP Cams® pushrods are identifiable by the part number and length laser etched on the pushrod itself. Insist on the best and accept no imitations.

- One-piece construction from .080" wall seamless chromemoly
- Heat-treated for extended durability & guide plate compatibility
- Precision formed & reinforced 5/16" ball type ends
- Black oxide finished and laser etched part number & length
- Ideal for serious street performance and race applications

### 5/16" Diameter Hi-Tech™ Pushrods

Part #	Length	Part #	Length
7751-16	6.200"	7995-16	8.000"
7917-16	6.250"	7746-16	8.025"
7752-16	6.300"	7996-16	8.050"
7753-16	6.350"	7747-16	8.075"
7754-16	6.400"	7997-16	8.100"
7766-16	6.450"	7748-16	8.125"
7767-16	6.500"	7965-16	8.150"
7768-16	6.550"	7749-16	8.175"
7769-16	6.600"	7966-16	8.200"
7770-16	6.650"	7750-16	8.225"
7771-16	6.700"	7967-16	8.250"
7772-16	6.750"	7773-16	8.275"
7929-16	6.800"	7971-16	8.300"
7930-16	6.850"	7774-16	8.325"
7933-16	6.900"	7973-16	8.350"
7935-16	6.950"	7730-16	8.375"
7936-16	7.000"	7945-16	8.400"
7937-16	7.050"	7731-16	8.425"
7938-16	7.100"	7975-16	8.450"
7939-16	7.150"	7976-16	8.500"
7940-16	7.200"	7948-16	8.550"
7944-16	7.250"	7977-16	8.600"
7949-16	7.300"	7775-16	8.650"
7794-16	7.325"	7776-16	8.700"
7950-16	7.350"	7778-16	8.750"
7795-16	7.375"	7779-16	8.800"
7955-16	7.400"	7780-16	8.850"
7796-16	7.425"	7781-16	8.900"
7956-16	7.450"	7782-16	8.950"
7797-16	7.475"	7783-16	9.000"
7957-16	7.500"	7784-16	9.050"
7958-16	7.550"	7785-16	9.100"
7959-16	7.600"	7786-16	9.150"
7960-16	7.650"	7787-16	9.200"
7963-16	7.700"	7788-16	9.250"
7970-16	7.750"	7789-16	9.300"
7972-16	7.800"	7790-16	9.350"
7974-16	7.850"	7791-16	9.400"
7993-16	7.900"	7792-16	9.450"
7994-16	7.950"	7793-16	9.500"



For single piece use - 1 suffix

All parts on this page are 50-state legal.

## Hi-Tech™ 3/8" Pushrods - Listed By Length

Hi-Tech™ Pushrods feature a one-piece design from .080" wall seamless chromemoly tubing that ensures the ultimate in strength and durability. The ends are precision formed, yielding added thickness in the critical tip area for strength, while maintaining constant wall thickness and concentricity. The pushrods are then heat-treated to ensure compatibility with guide plates and for maximum strength. All Hi-Tech™ Pushrods can be ordered in sets of 8, 16, or as single pieces.

- One-piece construction from .080" wall seamless chromemoly
- Heat-treated for extended durability & guide plate compatibility
- Precision formed & reinforced 5/16" ball type ends
- Black oxide finished and laser etched part number & length
- Ideal for serious street performance and race applications

COMP Cams® pushrods are identifiable by the part number and length laser etched on the pushrod itself. Insist on the best and accept no imitations.



### 3/8" Diameter Hi-Tech™ Pushrods

Part #	Length	Part#	Length
8900-16	7.500"	7921-16	9.150"
8901-16	7.550"	7922-16	9.200"
8902-16	7.600"	7941-16	9.250"
8903-16	7.650"	7923-16	9.300"
8904-16	7.700"	7979-16	9.350"
8905-16	7.750"	7755-16	9.400"
7913-16	7.800"	7756-16	9.450"
7980-16	7.850"	7757-16	9.500"
7984-16	7.900"	7758-16	9.550"
7981-16	7.950"	7759-16	9.600"
7983-16	8.000"	7961-16	9.650"
7985-16	8.050"	7760-16	9.700"
7986-16	8.100"	7978-16	9.750"
7987-16	8.150"	8701-16	9.800"
7740-16	8.175"	8702-16	9.850"
7989-16	8.200"	8703-16	9.900"
7741-16	8.225"	8704-16	9.950"
7742-16	8.250"	8705-16	10.000"
7931-16	8.280"	8706-16	10.050"
7990-16	8.300"	8707-16	10.100"
8700-16	8.325"	8708-16	10.150"
7743-16	8.350"	8709-16	10.200"
7969-16	8.380"	8710-16	10.250"
7991-16	8.400"	8711-16	10.300"
7745-16	8.425"	8712-16	10.350"
7992-16	8.450"	8713-16	10.400"
7932-16	8.500"	8714-16	10.450"
7934-16	8.550"	8715-16	10.500"
7906-16	8.600"	8716-16	10.550"
7912-16	8.650"	8717-16	10.600"
7951-16	8.680"	8718-16	10.650"
7907-16	8.700"	8719-16	10.700"
7968-16	8.780"	8733-16	10.750"
7908-16	8.800"	8734-16	10.800"
7910-16	8.850"	8735-16	10.850"
7927-16	8.900"	8738-16	10.900"
7928-16	8.950"	8739-16	10.950"
7918-16	9.000"	8742-16	11.000"
7919-16	9.050"	8743-16	11.050"
7920-16	9.100"	8744-16	11.100"

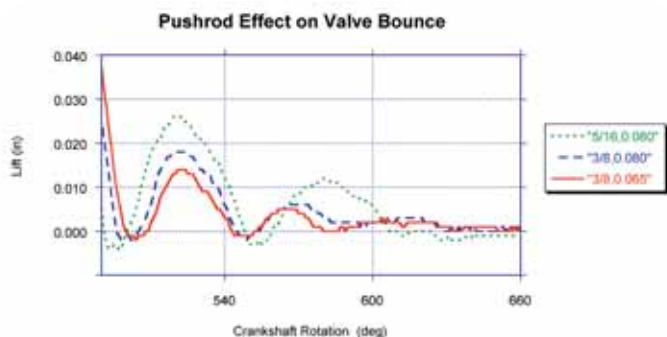
For single piece use - 1 suffix

All parts on this page are 50-state legal.

## Hi-Tech™ 3/8" One-Piece .065" Wall Pushrods

Hi-Tech™ Pushrods with 3/8" diameter and a .065" wall thickness are made of high-quality 4130 chromemoly steel heat-treated to a minimum hardness of 60 on the Rockwell "C" scale. The use of Finite Element Analysis has helped us design this pushrod for superior performance and endurance. Applications include engines employing mid-range spring pressures and high engine speeds. Because of their increase in natural frequency, these pushrods help tune the valve train when subjecting the valve train to its maximum speed. Spintron® tests show that this product helps control valve motion, which results in capturing lost horsepower due to valve bounce.

To determine if they are the right choice for your application, contact our CAM HELP® line at 1-800-999-0853.



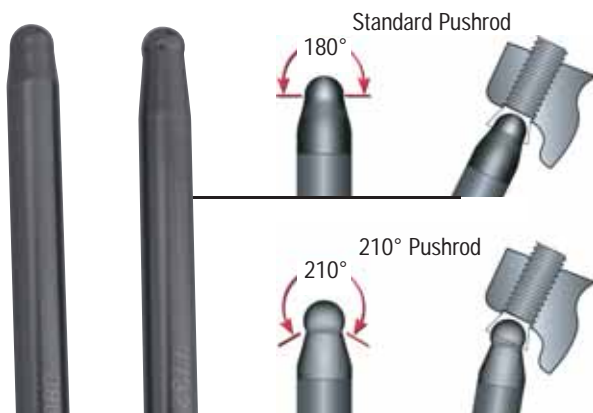
## 3/8" Diameter Hi-Tech™ One-Piece .065" Wall Pushrods

Part #	Length
8760-16	8.150"
8761-16	8.200"
8750-16	8.250"
8751-16	8.300"
8752-16	8.350"
8753-16	8.400"
8762-16	8.450"
8763-16	8.500"
8764-16	8.550"
8765-16	8.600"
8754-16	8.650"
8755-16	8.700"
8756-16	8.750"
8757-16	8.800"
8758-16	8.850"
8759-16	8.900"
8766-16	8.950"
8767-16	9.000"
8768-16	9.050"
8769-16	9.100"
8776-16	9.150"
8777-16	9.200"
8778-16	9.250"

For single piece use - 1 suffix

## Hi-Tech™ 210° Radius Pushrods

COMP Cams® Hi-Tech™ 210° Radius Pushrods were designed for high lift applications where pushrod and seat interference are problems at maximum lift. These pushrods have the same features of our Hi-Tech™ Pushrods with the addition of 210° radius rather than the standard 180° radius. These pushrods not only work great with rocker arms that feature cup type adjusters, they also are perfect for applications requiring more load bearing surface from the pushrod.



### 5/16" Diameter

Part #	Diameter/ Wall Thickness	Length
7946-16	5/16" / .080"	7.900"
7729-16	5/16" / .080"	7.950"
7761-16	5/16" / .080"	8.000"
7947-16	5/16" / .080"	8.050"
7762-16	5/16" / .080"	8.100"
7763-16	5/16" / .080"	8.500"
7764-16	5/16" / .080"	8.550"
7765-16	5/16" / .080"	8.600"

### 3/8" Diameter

Part #	Diameter/ Wall Thickness	Length
7732-16	3/8" / .080"	7.900"
7733-16	3/8" / .080"	7.950"
7734-16	3/8" / .080"	8.000"
7735-16	3/8" / .080"	8.050"
7736-16	3/8" / .080"	8.100"
7737-16	3/8" / .080"	8.500"
7738-16	3/8" / .080"	8.550"
7739-16	3/8" / .080"	8.600"

All parts on this page are 50-state legal.

**New** Hi-Tech™ Oil Restricting 5/16" One-Piece  
.080" Wall Pushrods

COMP Cams® offers 20 new Hi-Tech™ Pushrods for four different engine platforms that restrict oil flow. While the standard Hi-Tech™ Pushrods feature 0.100" oil holes, the oil restricting pushrod openings are half that size at 0.050". The oil restricting pushrods are available for Ford 302cid Small Block engines as well as Ford 351cid Windsor engines, the classic Small

Block Chevy engines and GM Gen III engines. For each engine platform COMP Cams® offers five different pushrod lengths to meet any need. The new oil restricting pushrods maintain the consistent Hi-Tech™ Pushrod features, including one-piece 4130 chromemoly material with a wall thickness of 0.080" and 60 Rockwell hardness. To avoid confusion, each oil restricted pushrod is clearly labeled as such right on the pushrod shaft.



Make	Part #	Description	Diameter/ Wall Thickness	Length
Small Block Chevrolet	8300	-.100" Short	5/16" / .080"	7.700"
	8301	Standard Length Small Block Chevrolet	5/16" / .080"	7.800"
	8302	+.100" Long	5/16" / .080"	7.900"
	8303	+.150" Long	5/16" / .080"	7.950"
	8304	+.200" Long	5/16" / .080"	8.000"
GM Gen III/LS1/LS2/LS6	8305	-.100" Short	5/16" / .080"	7.300"
	8306	-.050" Short	5/16" / .080"	7.350"
	8307	Standard Length Gen III/LS1/LS2/LS6	5/16" / .080"	7.400"
	8308	+.050" Long	5/16" / .080"	7.450"
	8309	+.100" Long	5/16" / .080"	7.500"
Small Block Ford 302	8310	-.100" Short	5/16" / .080"	6.750"
	8311	-.050" Short	5/16" / .080"	6.800"
	8312	Standard Length Small Block Ford 302	5/16" / .080"	6.850"
	8313	+.050" Long	5/16" / .080"	6.900"
	8314	+.100" Long	5/16" / .080"	6.950"
Small Block Ford 351 Windsor	8315	-.100" Short	5/16" / .080"	8.050"
	8316	-.050" Short	5/16" / .080"	8.100"
	8317	Standard Length Small Block Ford 351 Windsor	5/16" / .080"	8.150"
	8318	+.050" Long	5/16" / .080"	8.200"
	8319	+.100" Long	5/16" / .080"	8.250"

## Tech Tip

While restricting oil flow with the pushrods is not the optimum solution, it is commonly used in certain hydraulic flat tappet racing applications where an engine can pump too much oil into the top end valve train and away from the bottom end bearings, cylinder walls, etc.



## New Dual Taper .125" Wall Pushrods

COMP Cams® has just released their new Dual Taper Pushrods for racing and high performance applications. These 7/16" – 3/8", .125" wall pushrods feature a unique dual taper for strength and lightweight construction. These new pushrods are made from special steel alloy and utilize a 210° tip for an increased load bearing surface and increased performance.

Part #	Length
8197-16	8.000"
8196-16	8.025"
8199-16	8.050"
8198-16	8.075"
8200-16	8.100"
8201-16	8.125"
8203-16	8.150"
8202-16	8.175"
8205-16	8.200"
8204-16	8.225"
8207-16	8.250"
8206-16	8.275"
8209-16	8.300"
8208-16	8.325"
8211-16	8.350"
8210-16	8.375"
8213-16	8.400"
8212-16	8.425"
8215-16	8.450"
8214-16	8.475"
8217-16	8.500"
8216-16	8.525"
8219-16	8.550"
8218-16	8.575"
8221-16	8.600"
8220-16	8.625"
8223-16	8.650"
8222-16	8.675"
8225-16	8.700"
8224-16	8.725"
8227-16	8.750"
8226-16	8.775"
8229-16	8.800"
8228-16	8.825"
8231-16	8.850"
8230-16	8.875"
8233-16	8.900"
8232-16	8.925"
8235-16	8.950"
8234-16	8.975"
8237-16	9.000"

For single piece use - 1 suffix

## New Straight Tube 7/16" .125" Wall Pushrods

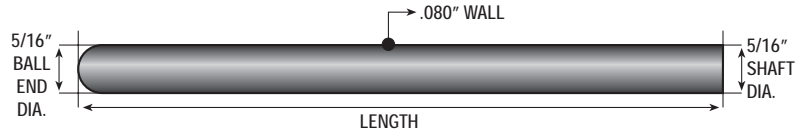
Hi-Tech™ 7/16" Diameter Pushrods use an ultra-rigid large diameter design and high-strength material to avoid the harmful valve train vibrations that occur when smaller diameter pushrods "snap back" into position.



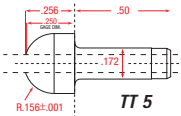
Part #	Length
8501-16	8.100"
8502-16	8.150"
8503-16	8.200"
8504-16	8.225"
8505-16	8.250"
7911-16	8.275"
8506-16	8.300"
8507-16	8.350"
8508-16	8.400"
8509-16	8.450"
8510-16	8.500"
8511-16	8.525"
8512-16	8.550"
8513-16	8.575"
8514-16	8.600"
8515-16	8.625"
8516-16	8.650"
7943-16	8.675"
8517-16	8.700"
8518-16	8.750"
8519-16	8.800"
8520-16	8.850"
8521-16	8.900"
8522-16	8.950"
8523-16	9.000"
8524-16	9.050"
8525-16	9.100"
8526-16	9.150"
8527-16	9.200"
8528-16	9.225"
7988-16	9.250"
8529-16	9.275"
8530-16	9.300"
8531-16	9.350"
8532-16	9.400"
8533-16	9.450"
8534-16	9.500"
8535-16	9.550"
8536-16	9.600"
8537-16	9.625"
7953-16	9.650"
8538-16	9.675"
8539-16	9.700"
8540-16	9.750"
8541-16	9.800"
8542-16	9.850"

For single piece use - 1 suffix

### Multi-Piece 5/16" Pushrod Kits

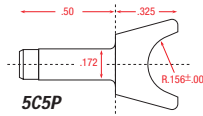


Tube Length	Diameter	Wall Type	Wall Thickness	Ball End Diameter	Part #
5.000" - 6.000"	5/16"	Hardened-Straight	.080"	5/16" Ball End	K6805
6.000" - 7.000"	5/16"	Hardened-Straight	.080"	5/16" Ball End	K7805
6.500" - 7.500"	5/16"	Hardened-Straight	.080"	5/16" Ball End	K75805
7.000" - 8.000"	5/16"	Hardened-Straight	.080"	5/16" Ball End	K8805
8.000" - 9.000"	5/16"	Hardened-Straight	.080"	5/16" Ball End	K9805
9.000" - 10.000"	5/16"	Hardened-Straight	.080"	5/16" Ball End	KK10805
10.000" - 11.000"	5/16"	Hardened-Straight	.080"	5/16" Ball End	KK11805



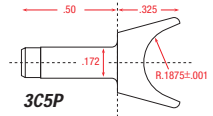
TT5

5/16" BALL FOR 5/16" SHAFT  
 Note: Add "CL" to end of part number for 210° radius



5C5P

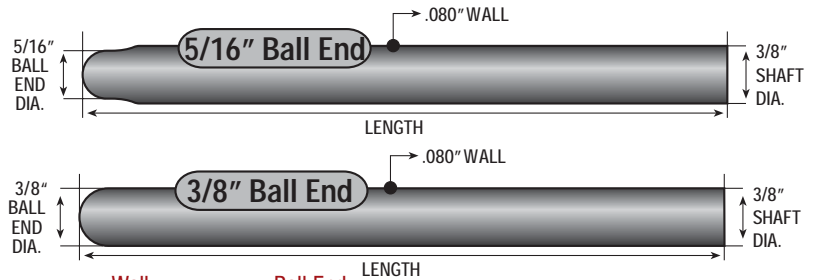
5/16" CUP FOR 5/16" SHAFT



3C5P

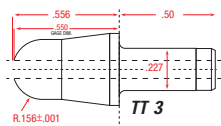
3/8" CUP FOR 5/16" SHAFT

### Multi-Piece 3/8" Pushrod Kits



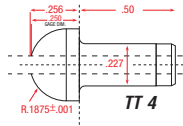
Tube Length	Diameter	Wall Type	Wall Thickness	Ball End Diameter	Part #
6.000" - 7.000"	3/8"	Hardened-Straight	.080"	5/16" Or 3/8"*	K7803*
7.000" - 8.000"	3/8"	Hardened-Straight	.080"	5/16" Or 3/8"*	K8803*
8.000" - 9.000"	3/8"	Hardened-Straight	.080"	5/16" Or 3/8"*	K9803*
8.750" - 9.750"	3/8"	Hardened-Straight	.080"	5/16" Ball End	K975803*
9.000" - 10.000"	3/8"	Hardened-Straight	.080"	5/16" Or 3/8"*	KK10803*
10.000" - 11.000"	3/8"	Hardened-Straight	.080"	5/16" Or 3/8"*	KK11803*
11.000" - 12.000"	3/8"	Hardened-Straight	.080"	5/16" Or 3/8"*	KK12803*

\* Add a "3" to end of part number for 3/8" ball end



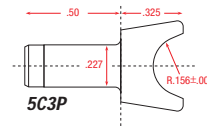
TT3

5/16" BALL FOR 3/8" SHAFT  
 Note: Add "CL" to end of part number for 210° radius



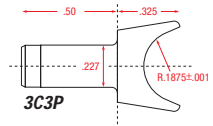
TT4

3/8" BALL FOR 3/8" SHAFT



5C3P

5/16" CUP FOR 3/8" SHAFT

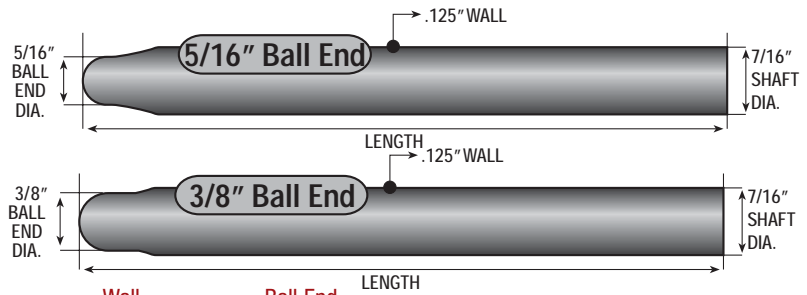


3C3P

3/8" CUP FOR 3/8" SHAFT

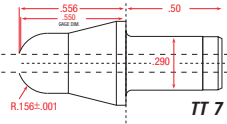
Note: All of the components on these pages are also available in 200 and 400 piece Engine Builder Kits

## Multi-Piece 7/16" Pushrod Kits



Tube Length	Diameter	Wall Type	Wall Thickness	Ball End Diameter	Part #
6.000" - 7.000"	7/16"	Hardened-Straight	.125"	5/16" Or 3/8"*	K7127*
7.000" - 8.000"	7/16"	Hardened-Straight	.125"	5/16" Or 3/8"*	K8127*
8.000" - 9.000"	7/16"	Hardened-Straight	.125"	5/16" Or 3/8"*	K9127*
9.000" - 10.000"	7/16"	Hardened-Straight	.125"	5/16" Or 3/8"*	KK10127*
10.000" - 11.000"	7/16"	Hardened-Straight	.125"	5/16" Or 3/8"*	KK11127*
11.000" - 12.000"	7/16"	Hardened-Straight	.125"	5/16" Or 3/8"*	KK12127*
12.000" - 13.000"	7/16"	Hardened-Straight	.125"	5/16" Or 3/8"*	KK13127*
13.000" - 14.000"	7/16"	Hardened-Straight	.125"	5/16" Or 3/8"*	KK14127*

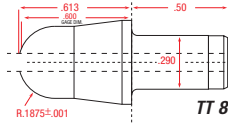
\* Add a "3" to end of part number for 3/8" ball end



TT7

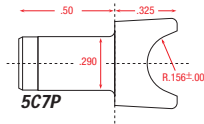
5/16" BALL FOR 7/16" SHAFT

Note: Add "CL" to end of part number for 210° radius



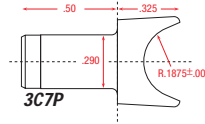
TT8

3/8" BALL FOR 7/16" SHAFT



5C7P

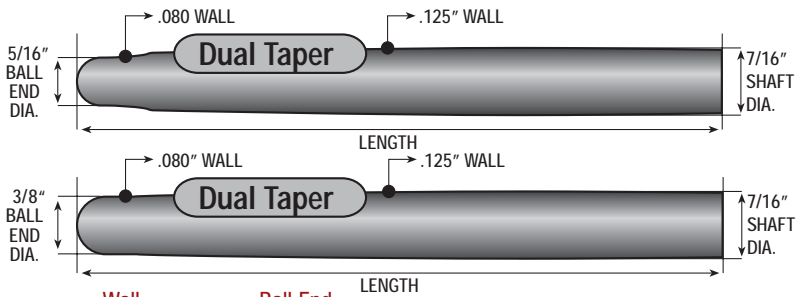
5/16" CUP FOR 7/16" SHAFT



3C7P

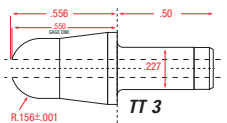
3/8" CUP FOR 7/16" SHAFT

## Multi-Piece 7/16" Dual Taper Pushrod Kits



Tube Length	Diameter	Wall Type	Wall Thickness	Ball End Diameter	Part #
6.000" - 7.000"	7/16"	Hardened-Double Taper	.125"	5/16" Or 3/8"*	K7127T*
7.000" - 8.000"	7/16"	Hardened-Double Taper	.125"	5/16" Or 3/8"*	K8127T*
8.000" - 9.000"	7/16"	Hardened-Double Taper	.125"	5/16" Or 3/8"*	K9127T*
9.000" - 10.000"	7/16"	Hardened-Double Taper	.125"	5/16" Or 3/8"*	KK10127T*
10.000" - 11.000"	7/16"	Hardened-Double Taper	.125"	5/16" Or 3/8"*	KK11127T*
11.000" - 12.000"	7/16"	Hardened-Double Taper	.125"	5/16" Or 3/8"*	KK12127T*
12.000" - 13.000"	7/16"	Hardened-Double Taper	.125"	5/16" Or 3/8"*	KK13127T*
13.000" - 14.000"	7/16"	Hardened-Double Taper	.125"	5/16" Or 3/8"*	KK14127T*

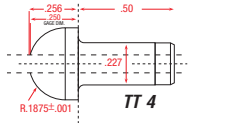
\* Add a "3" to end of part number for 3/8" ball end



TT3\*\*

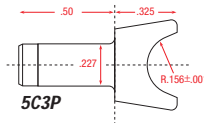
5/16" BALL FOR 3/8" SHAFT

Note: Add "CL" to end of part number for 210° radius



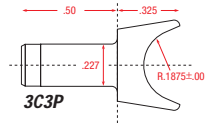
TT4\*\*

3/8" BALL FOR 3/8" SHAFT



5C3P\*\*

5/16" CUP FOR 3/8" SHAFT



3C3P\*\*

3/8" CUP FOR 3/8" SHAFT

\*\* Must use KD716T cutter for all 7/16" Dual Taper Pushrod ends

## *New* Pushrod Cutting Bits

These cutters are made specifically to cut pushrods and will cut up to 200 pieces. When the cut is finished, it leaves a .002" to .003" press fit between the pushrod and tip. Cutters may be ordered as needed.

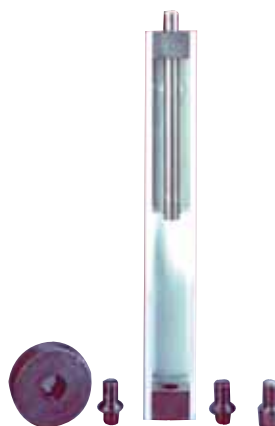
Part #	Description	Pilot	Bore
KD516	5/16" Pushrod Cutter	.157"	.169"
KD38	3/8" Pushrod Cutter	.213"	.222"
KD716	7/16" Pushrod Cutter	.184"	.284"
KD716T	7/16" Tapered Pushrod Cutter	.184"	.222"



## Pushrod Assembly Tool

This simple tool makes assembling kits so easy anyone can do it. After cutting your pushrod to the correct length, use our assembly tool to press the tip into place. This eliminates the risk of splitting or bending the pushrod. The tool comes with two ends for cup or ball tips.

Part #	Description
4913	Pushrod Assembly Tool

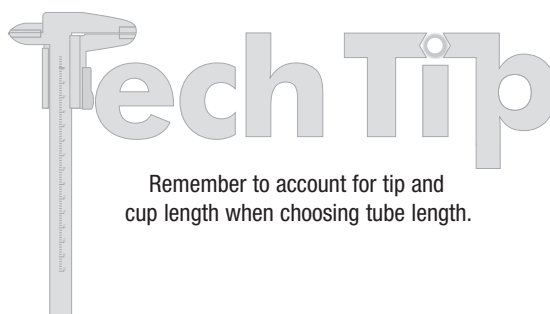
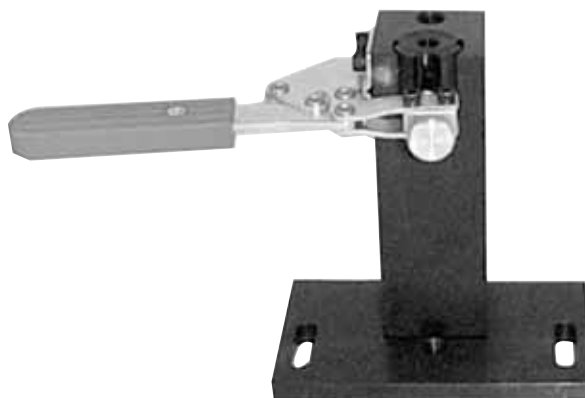


## *New* Pushrod Holder (Stabilizer)

This tool is used to safely hold the pushrod while cutting to the desired length. The holder may be placed in a drill press for more secure and accurate cuts. The holder also stabilizes the pushrod to control flex while cutting. The holder has a revolver that will accept 5/16", 3/8", and 7/16" pushrods. It also has a threaded hole located on top of the tool that can be used as a stop for quick, same-length cuts.

Desired cutting speed is 200 to 300 rpm.

Part #	Description
KSTAND	Pushrod Holder (Stabilizer)



Remember to account for tip and cup length when choosing tube length.

## Pushrod Length & Rocker Arm Geometry

A large number of variables are involved in determining the correct length pushrod for your application. Pushrod length is affected by any one or all of the following:

- Block deck height
- Head deck height
- Head stud boss height
- Rocker arm brand/design
- Cam base circle size
- Lifter design/brand/pushrod seat height
- Valve stem length

Don't assume anything in determining the right pushrod for your new engine. A pushrod that fits one engine may not necessarily work in another. Any number of items can be different on your engine, requiring you to use a different pushrod length. Following the steps below will streamline the pushrod selection process, ensuring that you get the right parts the first time.

### 1. Buy a checking pushrod

Do not buy pushrods when you buy the cam, lifters, and the rest of the valve train components. As much as we would like to sell you pushrods at this time, nobody can predict ahead of time what length a given engine needs, unless it is bone stock.

Instead, invest in one of our checking pushrods at this time. They are on page 249 of the catalog. They come in two different designs, the more expensive of the two being easier to measure once you have it adjusted to the proper length for your valve train. Neither is particularly expensive if you consider time lost and freight costs when returning pushrods.

Other companies offer their own versions of pushrod length checking devices, funny little plastic things and such with a sheet of complicated instructions to calculate the length. The main disadvantage with these is that you have to order the pushrods and receive them before you know if your calculations are correct. With a checking pushrod, you can actually rotate the motor over and check the rocker arm/valve tip relationship as you adjust the pushrod length. When you get the correct geometry, it is a simple matter then to measure the length and place an order. COMP Cams® carries a large number of various length and diameter pushrods in stock. So you can have them overnight if you want and get the correct length the first time.

### 2. Determine correct valve train geometry

What is the correct length pushrod for your application? The one that produces correct valve train geometry. What is correct valve train geometry? When the rocker arm roller tip rolls from the intake side of the valve tip, across the center of the tip (at approximately mid-lift), to the exhaust side of the valve tip (at full lift) and back. See Diagram A.

### 3. Measure the resulting pushrod

Measuring the length of a pushrod is really rather simple. The most important thing to remember is that different manufacturers measure pushrods differently. So not all pushrods of a stated length will measure exactly the same. The three most common pushrod measurements are shown in Diagram B on the following page.

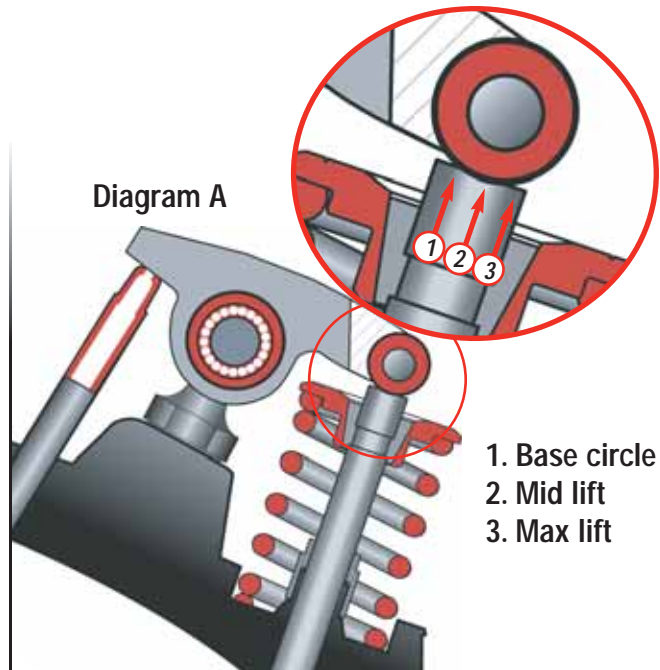
**Theoretical Length:** This assumes that the pushrod has no oil hole in the end of it. Therefore, the radius at either end is complete, which lengthens the pushrod approximately .017" in the case of a 5/16" pushrod with .100" diameter oil holes, minimally chamfered.

**Actual Length:** This is what you would measure if you had a set of calipers large enough to measure over the oil holes at each end of the pushrod. This is the measurement that most people can relate to. Unfortunately, this measurement is affected not only by the diameter of the oil holes but also by the entrance chamfer for each oil hole.

**Gauge Length:** Although the most difficult to measure (it requires a special length checking gauge), this measurement is the most reliable. This is because the oil holes and their chamfers are eliminated from the measurement. The only problem is that not all companies use the same gauge diameter. COMP Cams® uses a .140" gauge diameter. All of the Magnum and Hi-Tech™ Pushrods listed in this catalog are measured using this technique. See Diagram B on the following page.

### 4. Simple measurement techniques

The above was not meant to confuse you needlessly. We know that most people don't have access to the special gauge required for these measurements or even to a dial caliper large enough for most pushrods. We've developed two techniques to help you determine exactly how long the pushrod is that you so diligently played with until the perfect valve train geometry was achieved in your engine.



1. Base circle
2. Mid lift
3. Max lift

## Pushrod Measurement Techniques

**Technique #1:** This technique assumes that you have purchased one of our Hi-Tech™ Pushrod Length Checkers. These are marked with a standard length stamped in them. This number represents the gauge length of the part (.140" gauge diameter) with the two halves screwed completely together. Extending the pushrod one rotation lengthens the gauge length .050". For example, a pushrod stamped 7.800 screwed apart one rotation would be  $7.800" + .050" = 7.850"$  gauge length. Therefore you would order the part number from the catalog that matches this gauge length, since gauge length is how they are listed.

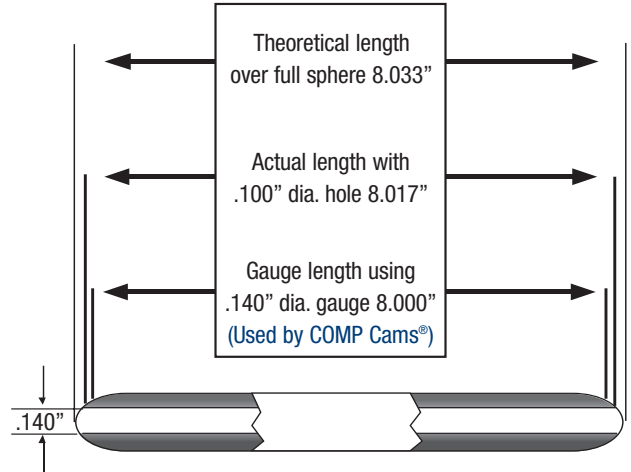
**Technique #2:** This technique assumes you have purchased one of our Magnum Pushrod Length Checkers. Once fixed, you don't need to have an expensive gauge or a pair of calipers to measure it. You just need a pushrod of a known length to compare it to (a standard). Then use a pair of common 6" calipers to measure the difference between the standard and yours.

A few final hints about pushrods in general. It is always a good idea to buy a few spares when purchasing a set of custom length pushrods, and stick them in your toolbox. If one ever fails at the track and you need a replacement, it would be nearly impossible to borrow one from a fellow racer.

Another hint involves cup end pushrods. Measuring them for length is especially difficult, no matter which technique above you choose to use. The size and shape of the cup end varies greatly from manufacturer to manufacturer, so measuring from the ball end to the cup end over the cup surface is a dangerous practice. The best strategy is to drop a 5/16" diameter steel ball into the cup end, and do all your measuring over this ball, subtracting the 5/16" diameter (.3125") to figure the length.

## Common Pushrod Measurements

Diagram B



## Product Spotlight



## POWER & PERFORMANCE NEWS™

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