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› Comp Cams 752216 Magnum Push Rod Instruction Manual

## Comp Cams 7522-16

# Comp Cams 752216 Magnum Push Rod Instruction Manual

Model: 7522-16 | Brand: Comp Cams

## 1. INTRODUCTION

This manual provides essential information for the proper installation, function, and maintenance of your Comp Cams 752216 Magnum Push Rods. These push rods are engineered for durability and performance in street performance and mild race applications.

The Comp Cams Magnum Series Push Rods are constructed from a single piece of chromemoly steel with a 0.080" wall thickness, designed to withstand high loads and prevent flexing. They are heat-treated for compatibility with guide plates and finished with a black oxide coating for corrosion resistance.



Image 1.1: Comp Cams 752216 Magnum Push Rod. This image displays the black oxide coated push rod, highlighting its robust construction.

## 2. SAFETY INFORMATION

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Always prioritize safety when working on automotive components. Failure to follow safety precautions can result in serious injury or damage to the vehicle.

- Ensure the engine is completely off and cool before beginning any work.
- Disconnect the battery to prevent accidental engine cranking.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Use proper tools and equipment for the task.
- If you are unsure about any installation step, consult a qualified automotive professional.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## 3. SETUP AND INSTALLATION

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Proper installation of push rods is critical for engine performance and longevity. Incorrect installation can lead to valve train damage.

### 3.1 Pre-Installation Checks

- Verify that the push rods are the correct length for your specific engine and valve train components. Incorrect length can cause improper valve lift or coil bind.
- Inspect each push rod for any signs of damage, such as bends or nicks, before installation.
- Ensure all other valve train components (lifters, rocker arms, valves, springs) are in good condition and compatible.

### 3.2 Installation Procedure (General Guidelines)

The following steps are general guidelines. Always refer to your engine's specific service manual for detailed instructions.

1. Remove the valve covers and any other components necessary to access the push rods.
2. Carefully remove the old push rods, noting their orientation if they are not identical.
3. Clean the lifter cups and rocker arm adjusters thoroughly.
4. Apply a small amount of engine assembly lubricant to both ends of the new Comp Cams push rods.
5. Insert each push rod into its respective position, ensuring it seats correctly in the lifter cup and aligns with the rocker arm.
6. Adjust valve lash according to your engine manufacturer's specifications. This is a critical step for proper valve train operation.
7. Reinstall valve covers and any other removed components.
8. Perform an initial engine start-up and check for any unusual noises or oil leaks.

*Note: These Magnum Push Rods are heat-treated for guide plate compatibility, ensuring they can withstand the wear associated with guide plate use without premature failure.*

## 4. OPERATING PRINCIPLES

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Push rods are a fundamental component of an overhead valve (OHV) engine's valve train. Their primary function is to transfer the upward motion of the lifter (which is actuated by the camshaft) to the rocker arm. The rocker arm then pivots to open the intake or exhaust valve.

The Comp Cams 752216 push rods are designed with a durable, one-piece .080" wall construction to minimize flex under high engine RPMs and aggressive valve spring pressures. This rigidity ensures accurate valve timing and lift, contributing to optimal

engine performance and reliability, especially in performance applications where precise valve control is essential.

## 5. MAINTENANCE

While push rods themselves require minimal direct maintenance, their longevity and performance are directly tied to the overall health of the engine and valve train.

- **Regular Oil Changes:** Ensure the engine oil is changed at recommended intervals using the correct type and viscosity. Clean oil is vital for lubricating all valve train components.
- **Valve Train Inspection:** During routine engine maintenance or when valve covers are removed, visually inspect the push rods for any signs of bending, wear at the ends, or unusual discoloration.
- **Proper Valve Lash:** Maintain correct valve lash settings as specified by your engine manufacturer. Incorrect lash can put undue stress on push rods and other components.
- **Cleanliness:** The black oxide coating on these push rods helps prevent rust and wear. Keep the engine interior clean to avoid debris contamination.

## 6. TROUBLESHOOTING

If you experience engine issues that you suspect are related to the valve train, consider the following common problems and potential causes:

- **Unusual Tapping or Clicking Noises:** This could indicate improper valve lash, worn lifters, or a bent push rod. Inspect the valve train for loose components or visible damage.
- **Engine Misfire or Rough Idle:** A bent or broken push rod can prevent a valve from opening or closing correctly, leading to a misfire. Compression testing can help identify affected cylinders.
- **Loss of Engine Power:** Similar to misfires, improper valve operation due to push rod issues can significantly reduce engine efficiency and power output.
- **Visible Damage to Push Rods:** If push rods appear bent, discolored, or have excessive wear at the ends, they must be replaced. This often indicates an underlying issue such as excessive valve spring pressure, coil bind, or improper push rod length.

Always consult a qualified mechanic for diagnosis and repair of complex engine issues.

## 7. SPECIFICATIONS

| Feature        | Specification                    |
|----------------|----------------------------------|
| Part Number    | 7522-16                          |
| Length         | 8.400 inches                     |
| Diameter       | 3/8 inches                       |
| Wall Thickness | 0.080 inches                     |
| Material       | Chromemoly Steel                 |
| Finish         | Black Oxide Coated               |
| Compatibility  | Guide Plate Compatible           |
| Application    | Street Performance and Mild Race |
| Item Weight    | 2.9 Pounds                       |

| Feature | Specification |
|---------|---------------|
| UPC     | 036584410485  |

## 8. WARRANTY AND SUPPORT

**Warranty:** This Comp Cams product is covered by a **1 Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, misuse, abuse, or unauthorized modifications.

**Customer Support:** For technical assistance, warranty claims, or further information regarding your Comp Cams 752216 Magnum Push Rods, please contact Comp Cams customer service directly. Refer to the official Comp Cams website for current contact details.

*Always retain your proof of purchase for warranty purposes.*

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question