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› Speedway Motors 1964-74 GM K5108 Style Upper Ball Joint Instruction Manual

Speedway Motors 91720040

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Model: 91720040

INTRODUCTION

This instruction manual provides essential information for the proper installation, maintenance, and safe operation of your Speedway Motors 1964-74 GM K5108 Style Upper Ball Joint. Please read this manual thoroughly before beginning any work to ensure correct procedures and to prevent potential damage or injury. This product is designed as a direct factory replacement for specified GM vehicles.

SAFETY INFORMATION

Always prioritize safety when working on vehicle suspension components. Failure to follow safety guidelines can result in serious injury or vehicle damage.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands on a level surface before beginning any work. Never rely solely on a jack.
- Disconnect the vehicle's battery before performing any electrical work, though this is not typically required for ball joint replacement.
- Use proper tools for each step. Do not use damaged or incorrect tools.
- If you are unsure about any step, consult a qualified automotive technician.
- Keep children and pets away from the work area.

PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- 1x Speedway Motors K5108 Style Upper Ball Joint
- 4x Mounting Bolts
- 4x Lock Washers

- 4x Nuts
- 1x Castle Nut
- 1x Cotter Pin
- 1x Grease Zerk Fitting



Image 1: Speedway Motors K5108 Style Upper Ball Joint and accompanying installation hardware, including bolts, nuts, washers, castle nut, cotter pin, and grease zerk.

COMPATIBILITY

This Speedway Motors K5108 Style Upper Ball Joint is designed for the following General Motors (GM) vehicle applications:

- 1964-1972 GM A-Body vehicles
- 1967-1969 GM F-Body vehicles
- 1968-1974 GM X-Body vehicles

This ball joint features a 7-degree taper, matching the original equipment specifications for these models.

INSTALLATION INSTRUCTIONS

The following steps outline the general procedure for replacing an upper ball joint. Specific vehicle service manual procedures should always be consulted for detailed torque specifications and model-specific instructions.

Tools and Materials Required:

- Jack and Jack Stands
- Wheel Chocks
- Socket Set and Wrenches
- Ball Joint Separator Tool (pickle fork or press type)
- Torque Wrench

- Grease Gun and appropriate grease
- Wire Brush
- Penetrating Oil (optional)

Procedure:

1. **Prepare the Vehicle:** Park the vehicle on a level, firm surface. Engage the parking brake and place wheel chocks behind the rear wheels. Loosen the lug nuts on the wheel corresponding to the ball joint being replaced.
2. **Lift and Secure:** Jack up the front of the vehicle and place jack stands securely under the frame rails. Remove the wheel.
3. **Disassemble Suspension:** Support the lower control arm with a floor jack. Remove the cotter pin and castle nut from the upper ball joint stud.
4. **Separate Ball Joint:** Use a ball joint separator tool to separate the upper ball joint stud from the steering knuckle. Exercise caution to avoid damaging other suspension components.
5. **Remove Old Ball Joint:** Remove the bolts securing the upper ball joint to the upper control arm. Carefully remove the old ball joint.
6. **Clean Mounting Surface:** Clean any rust or debris from the upper control arm's ball joint mounting surface using a wire brush.
7. **Install New Ball Joint:** Position the new Speedway Motors upper ball joint into the upper control arm. Secure it with the provided new bolts, lock washers, and nuts. Tighten these fasteners to the manufacturer's specified torque (refer to your vehicle's service manual).
8. **Connect to Knuckle:** Insert the new ball joint stud into the steering knuckle. Install the new castle nut and tighten it to the specified torque. Install the new cotter pin, bending its ends to secure it.
9. **Lubricate:** Install the provided grease zerk fitting into the ball joint. Using a grease gun, lubricate the ball joint until the boot begins to swell slightly.
10. **Reassemble and Test:** Reinstall the wheel, lower the vehicle, and tighten the lug nuts to specification. Perform a wheel alignment after replacing suspension components.



Image 2: Angled view of the upper ball joint, showing the stud and mounting plate.



Image 3: Side profile of the ball joint, highlighting the boot and tapered stud.



Image 4: Bottom view of the ball joint, showing the base plate and grease zerk location.

MAINTENANCE

Regular maintenance helps extend the life of your ball joint and ensures optimal suspension performance.

- **Lubrication:** This ball joint is equipped with a grease zerk fitting. Lubricate the ball joint with a high-quality chassis grease at regular service intervals, or as recommended by your vehicle's manufacturer. Pump grease until the boot is firm but not over-inflated.
- **Inspection:** Periodically inspect the ball joint for signs of wear, such as loose movement, torn boots, or corrosion. Replace the ball joint if any significant wear or damage is observed.

TROUBLESHOOTING

If you experience issues after installation, consider the following:

- **Noise (clunking, squeaking):** Check all fasteners for proper torque. Ensure the ball joint is adequately lubricated. Inspect for any interference with other suspension components.
- **Loose Steering/Poor Handling:** Verify that the ball joint stud is properly seated and the castle nut is tightened to specification with the cotter pin installed. A professional wheel alignment is crucial after suspension work.
- **Premature Wear:** Ensure proper lubrication. Verify correct installation and that no other suspension components are worn, which could put undue stress on the new ball joint.

If problems persist, it is recommended to consult a certified automotive technician.

SPECIFICATIONS

Part Name:	Upper Ball Joint
Brand:	Speedway Motors
Model Number:	91720040
OEM Cross Reference:	Moog K5108 Style
Application:	1964-72 GM A-Body, 1967-69 GM F-Body, 1968-74 GM X-Body
Taper:	7 Degree
Item Weight:	2 pounds
Product Dimensions:	7 x 4 x 3 inches
Exterior Finish:	Machined
Position:	Upper, Center

WARRANTY INFORMATION

Speedway Motors products are manufactured to high standards. For specific warranty details regarding this product, please refer to the official Speedway Motors website or contact their customer support. Generally, products are warranted against defects in materials and workmanship under normal use.

CUSTOMER SUPPORT

If you have any questions regarding the installation, operation, or maintenance of your Speedway Motors K5108 Style Upper Ball Joint, please visit the official [Speedway Motors Store on Amazon](#) or their corporate website for further assistance and contact information.