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INTRODUCTION

This manual provides detailed instructions for the installation, usage, and maintenance of the BMR Suspension KM014-1R K-member. This K-member is specifically designed for 1998-2002 4th Generation F-Body vehicles, featuring a turbo-compatible design with no motor mounts and provisions for Pinto rack mounts. Please read all instructions thoroughly before beginning installation to ensure proper fitment and safe operation.

SAFETY INFORMATION

- **Professional Installation Recommended:** Installation of this product requires specialized tools and automotive knowledge. If you are not confident in your abilities, seek professional assistance.
- **Vehicle Support:** Always use appropriate jack stands or a lift to securely support the vehicle when working underneath it. Never rely solely on a jack.
- **Personal Protective Equipment:** Wear safety glasses, gloves, and other appropriate personal protective equipment during installation.
- **Torque Specifications:** Adhere strictly to all torque specifications provided by the vehicle manufacturer and any included with this product. Improperly torqued fasteners can lead to component failure.
- **Component Compatibility:** Ensure all components are compatible with your specific vehicle model and year before installation.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

PACKAGE CONTENTS

Upon unpacking, verify that all components are present and undamaged. The package should contain:

- One (1) BMR Suspension KM014-1R K-member
- Associated hardware (bolts, nuts, washers) - (*Note: Specific hardware list may vary, refer to included hardware pack*)
- Instruction sheet (this document)

If any items are missing or damaged, contact BMR Suspension customer support immediately.

SPECIFICATIONS

Feature	Detail
Model Number	KM014-1R
Brand	BMR Suspension
Application	1998-2002 4th Gen F-Body
Design	Turbo-compatible, no motor mounts, Pinto rack mounts
Material	High-strength steel
Finish	Painted (Red)
Item Weight	34 pounds
Product Dimensions (L x W x H)	39 x 20 x 10 inches
UPC	887753324436

SETUP AND INSTALLATION

The BMR Suspension KM014-1R K-member is a direct replacement component designed to improve chassis rigidity and provide specific mounting options for turbo applications and Pinto steering racks. Follow these general steps for installation. Refer to your vehicle's service manual for specific torque values and additional procedures.

Required Tools and Equipment:

- Vehicle lift or jack stands
- Assorted wrenches and sockets
- Torque wrench
- Pry bars
- Fluid drain pans (for power steering fluid, if applicable)
- Penetrating oil
- Thread locker (medium strength)

Installation Steps:

1. **Prepare Vehicle:** Safely lift and support the vehicle. Disconnect the battery.
2. **Remove Wheels and Suspension Components:** Remove the front wheels. Disconnect and remove front suspension components attached to the factory K-member, including but not limited to:
 - Lower control arms
 - Struts/shocks
 - Sway bar
 - Steering rack (disconnect from steering shaft and tie rods)
 - Engine mounts (if applicable, though this K-member does not use them, the engine will need to be supported)
3. **Support Engine:** Securely support the engine from above using an engine hoist or engine support bar. Ensure the engine is stable and will not shift during K-member removal.
4. **Disconnect Exhaust and Other Lines:** Disconnect any exhaust components, brake lines, or other hoses/wiring that may interfere with K-member removal.
5. **Remove Factory K-member:** Carefully unbolt the factory K-member from the chassis. Note the orientation and location of all fasteners. Lower the K-member from the vehicle.
6. **Inspect and Prepare:** Inspect the chassis mounting points for any damage or corrosion. Clean the area thoroughly.
7. **Install BMR Suspension KM014-1R K-member:**



Image 1: BMR Suspension KM014-1R K-member. This image displays the red powder-coated tubular steel K-member, featuring mounting points for suspension components and a Pinto-style steering rack. The design is open for turbocharger downpipe clearance.

- Carefully position the new BMR Suspension K-member into place. Align the mounting holes with the chassis. Install the main K-member bolts, but do not fully tighten them yet. Ensure proper clearance for turbo components if applicable.
8. **Install Steering Rack:** Mount your Pinto-style steering rack to the designated mounting points on the new K-member. Use appropriate hardware and apply thread locker as recommended by the steering rack manufacturer.
 9. **Reinstall Suspension Components:** Reattach all front suspension components (lower control arms, struts/shocks, sway bar) to the new K-member. Ensure all fasteners are installed correctly.
 10. **Connect Engine:** If the engine was supported separately, carefully lower it and ensure it is properly seated. This K-member does not utilize traditional motor mounts, so ensure the engine is secured according to your specific engine mounting solution (e.g., solid mounts, mid-plate, etc.).
 11. **Reconnect Lines and Exhaust:** Reconnect all brake lines, hoses, wiring, and exhaust components that were disconnected.
 12. **Final Torque:** Once all components are in place and aligned, progressively tighten all K-member and suspension fasteners to the vehicle manufacturer's specified torque values. Double-check all connections.
 13. **Final Checks:** Reinstall wheels and lower the vehicle. Check for proper steering and suspension operation. Bleed brakes if any lines were opened. Perform a wheel alignment.

It is highly recommended to have a professional alignment performed after K-member installation to ensure correct vehicle handling and tire wear.

USAGE CONSIDERATIONS

After installing the BMR Suspension KM014-1R K-member, observe the following:

- **Break-in Period:** Drive cautiously for the first 50-100 miles after installation. This allows components to settle and helps identify any potential issues.
- **Alignment:** A professional wheel alignment is crucial after K-member replacement to ensure proper handling, tire wear, and steering response.
- **Regular Inspection:** Periodically inspect all K-member mounting bolts and associated suspension hardware for tightness. Check for any signs of wear or damage.
- **Performance Characteristics:** This K-member is designed for performance applications. Expect changes in vehicle dynamics, potentially including a firmer ride and more direct steering feel due to the reduced weight and increased rigidity.

MAINTENANCE

The BMR Suspension KM014-1R K-member requires minimal maintenance. However, regular inspection is recommended to ensure longevity and safe operation:

- **Visual Inspection:** Annually, or more frequently if driven in harsh conditions, visually inspect the K-member for any signs of damage, cracks, or corrosion.
- **Fastener Check:** Every 6-12 months, or after any significant track use, re-check the torque on all K-member mounting bolts and associated suspension hardware.
- **Cleaning:** Clean the K-member as needed to remove dirt, salt, or other corrosive materials. Use mild soap and water, then rinse thoroughly.
- **Paint Protection:** The K-member features a durable powder-coated finish. If the finish is damaged, touch up with appropriate paint to prevent rust.

TROUBLESHOOTING

If you encounter issues after installing your BMR Suspension KM014-1R K-member, consider the following:

- **Unusual Noises (Clunks, Squeaks):**
 - Check all fasteners for proper torque. Loose bolts are a common cause of noise.
 - Inspect for any components making contact with the K-member or chassis that shouldn't be.
 - Verify that all suspension components are correctly installed and not binding.
- **Poor Handling or Steering:**
 - Ensure a professional wheel alignment has been performed.

- Verify the steering rack is securely mounted and functioning correctly.
- Check for any play in ball joints, tie rods, or other steering/suspension components.
- **Engine Clearance Issues (for turbo applications):**
 - Double-check engine placement and any custom engine mounts or mid-plates.
 - Ensure turbocharger downpipes and other components have adequate clearance from the K-member and chassis. Adjust as necessary.

If troubleshooting steps do not resolve the issue, contact BMR Suspension customer support for further assistance.

WARRANTY AND SUPPORT

BMR Suspension products are manufactured to high standards. For specific warranty information, please refer to the warranty policy provided with your product or visit the official BMR Suspension website. For technical support or assistance with installation, please contact BMR Suspension customer service directly.

Contact Information: Please refer to the BMR Suspension official website for the most current contact details.

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