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> MAC Front Upper & Lower Control Arms Installation Manual for Dodge RAM 2500 4WD (2003-2009)

MAC 155631

MAC Front Upper & Lower Control Arms Installation Manual

For Dodge RAM 2500 4 Wheel Drive (2003-2009)

PRODUCT OVERVIEW

This manual provides essential information for the installation, maintenance, and troubleshooting of MAC Front Upper and Lower Control Arms with Bushings. These components are designed as direct replacements to restore proper suspension geometry and ride quality for compatible Dodge RAM vehicles.

Compatibility:

- Dodge Ram 1500 2006-2008 4x4 4 Wheel Drive (8 Lugs Wheels ONLY, Extended Mega Cab)
- Dodge Ram 2500 2003-2009 4x4 4 Wheel Drive (8 Lugs Wheels ONLY)
- Dodge Ram 3500 2003-2010 4x4 4 Wheel Drive (8 Lugs Wheels ONLY)

Kit Contents:

- 2x Front Lower Control Arms with Bushings (Part# CH52013798AA SK521954)
- 2x Front Upper Control Arms with Bushings (Part# CH52013797AC CA81485)

SAFETY INFORMATION

Always prioritize safety when working on your vehicle. Improper installation can lead to serious injury or vehicle damage. It is recommended that installation be performed by a qualified automotive technician.

- 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 work. Never rely solely on a jack.
- Disconnect the battery's negative terminal before working on electrical components, though not directly applicable here, it's good practice.
- Use the correct tools for each task.
- Refer to your vehicle's service manual for specific torque specifications and procedures.

SETUP AND INSTALLATION

This section outlines the general steps for replacing the front upper and lower control arms. Specific procedures may vary slightly depending on your vehicle's exact configuration. Always consult a professional service manual for detailed, vehicle-specific instructions and torque values.

Tools and Materials (Typical)

- Jack and Jack Stands
- Wheel Chocks
- Socket Set and Wrenches (various sizes)
- Torque Wrench
- Pry Bar
- Ball Joint Separator (if applicable)
- Penetrating Oil
- Wire Brush
- Anti-seize Compound

Installation Steps (General Guide)

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and chock the rear wheels. Loosen the front wheel lug nuts.
2. **Lift and Secure:** Jack up the front of the vehicle and support it securely with jack stands. Remove the front wheels.
3. **Access Control Arms:** Depending on your vehicle, you may need to remove other components for better access (e.g., sway bar links, shock absorbers).
4. **Remove Old Control Arms:**
 - Support the lower control arm with a jack to relieve tension.
 - Remove the nuts and bolts securing the control arm to the frame and the steering knuckle/spindle.
 - Carefully separate the ball joint from the steering knuckle using a ball joint separator if necessary.
 - Remove the old control arm. Note the orientation for reassembly.
5. **Install New Control Arms:**
 - Position the new control arm in place.
 - Insert the bolts through the frame mounts and finger-tighten the nuts.
 - Connect the ball joint to the steering knuckle and secure it with the castle nut and cotter pin.
 - Lower the vehicle slightly onto the control arm (or use a jack) to simulate ride height before fully tightening the frame bolts. This helps prevent premature bushing wear.
 - Torque all nuts and bolts to the manufacturer's specified values. **Do not overtighten.**
6. **Reassemble and Finalize:** Reinstall any removed components. Reattach the wheels and torque lug nuts to specification.
7. **Post-Installation:** It is highly recommended to have a professional wheel alignment performed immediately after replacing control arms to ensure proper vehicle handling and tire wear.

WARRANTY

The warranty for your item is stated on the listing, you can contact us if you have any questions

Image: MAC Front Upper and Lower Control Arms with Bushings. This image displays the complete set of control arms, highlighting their robust construction and integrated bushings, ready for installation.



MILLIONS OF PARTS IN STOCK



Image: Detailed view of MAC Control Arm components. This image provides a closer look at the design and materials of the control arms, including the pre-installed bushings.

OPERATING CONSIDERATIONS (POST-INSTALLATION)

After installation, it is important to perform a few checks and considerations to ensure optimal performance and safety.

- **Wheel Alignment:** As mentioned, a professional wheel alignment is crucial. This corrects camber, caster, and toe angles, which are affected by control arm replacement.
- **Test Drive:** Perform a cautious test drive in a safe area. Listen for any unusual noises (clunks, squeaks), check steering response, and ensure the vehicle tracks straight.
- **Re-torque Check:** After approximately 50-100 miles of driving, re-check the torque on all fasteners associated with the control arm installation. Bushings can settle, potentially loosening bolts.

MAINTENANCE

Regular inspection and maintenance will extend the life of your control arms and ensure continued safe operation of your vehicle.

- **Visual Inspection:** Periodically inspect the control arms, bushings, and ball joints for signs of wear, cracks, tears, or damage. Look for rust, corrosion, or loose components.
- **Noise Check:** Pay attention to any new noises from the suspension, especially over bumps or during turns. This could indicate worn bushings or ball joints.
- **Cleaning:** Keep the suspension components free from excessive dirt, mud, and road salt, which can accelerate corrosion.
- **Professional Check:** Include suspension component checks as part of your regular vehicle maintenance schedule with a qualified technician.

TROUBLESHOOTING

If you experience issues after installation, consider the following common problems and solutions.

Symptom	Possible Cause	Solution
Clunking or knocking noise over bumps	Loose fasteners, worn bushings, or damaged ball joint.	Check all bolts for proper torque. Inspect bushings and ball joints for wear and replace if necessary.
Squeaking or creaking noise	Dry or worn bushings, lack of lubrication.	Inspect bushings. If they are not sealed, they may require lubrication. If worn, replace the control arm.
Uneven tire wear or vehicle pulling to one side	Incorrect wheel alignment, bent control arm, or worn components.	Perform a professional wheel alignment. Inspect control arms for damage.
Loose or wandering steering	Worn ball joints or bushings, loose fasteners.	Inspect all suspension components for play. Tighten fasteners to specification. Replace worn parts.

If troubleshooting steps do not resolve the issue, consult a certified mechanic.

SPECIFICATIONS

Feature	Detail
Brand	MAC
Manufacturer Part Number	155631
Fit Type	Vehicle Specific Fit
Orientation	Front, Upper & Lower
Compatible Vehicles	Dodge Ram 1500 (06-08 4x4 8 Lugs), Dodge Ram 2500 (03-09 4x4 8 Lugs), Dodge Ram 3500 (03-10 4x4 8 Lugs)
OE Specifications	Designed to meet or exceed OE Specifications for fit, form, and function.

WARRANTY INFORMATION

The warranty for this item is typically detailed on the product listing page where it was purchased. For specific warranty terms, conditions, and duration, please refer to the original product listing or contact the seller directly.



Image: Warranty information. This graphic indicates that warranty details are available on the product listing and encourages contacting the seller for questions.

CUSTOMER SUPPORT

For further assistance, technical questions, or support regarding your MAC control arms, please contact the seller or manufacturer through the platform where the product was purchased. Provide your order details and a clear description of your inquiry for efficient service.



Image: MAC Auto Parts customer service. This image represents the availability of support for MAC Auto Parts products.



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