

Delphi TC2246

Delphi TC2246 Suspension Control Arm and Ball Joint Assembly User Manual

Model: TC2246

1. INTRODUCTION

This manual provides essential information for the proper installation, maintenance, and general understanding of the Delphi TC2246 Suspension Control Arm and Ball Joint Assembly. Please read this manual thoroughly before attempting any installation or service to ensure safety and optimal performance.

The Delphi TC2246 is designed as a direct replacement part, engineered to meet or exceed original equipment (OE) specifications for vehicle-specific fitment.

2. SAFETY INFORMATION

WARNING: Improper installation or maintenance of suspension components can lead to serious injury or vehicle damage. Always follow vehicle manufacturer's service procedures and use appropriate safety equipment.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands or a lift before working underneath.
- Do not work on a hot engine or exhaust system.
- Refer to your vehicle's service manual for specific torque specifications and procedures.
- Keep children and pets away from the work area.
- Dispose of old parts and fluids responsibly.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- 1x Delphi TC2246 Suspension Control Arm and Ball Joint Assembly
- 1x Nut (for ball joint attachment)



Image: Delphi TC2246 Control Arm and Ball Joint Assembly shown with the accompanying nut. This image displays the complete unit as it would appear in the package.

4. SPECIFICATIONS

Brand	Delphi
Model Number	TC2246
Part Position	Front
Fit Type	Vehicle Specific Fit
Material	Alloy Steel, Stainless Steel
Item Weight	4.63 pounds
Product Dimensions	18 x 5.5 x 4.8 inches
UPC	689604256350

5. INSTALLATION

Installation of the Delphi TC2246 Suspension Control Arm and Ball Joint Assembly requires mechanical knowledge and specialized tools. It is recommended that installation be performed by a qualified technician. Always refer to your specific vehicle's service manual for detailed, step-by-step instructions and torque specifications.

General Installation Steps (Consult Vehicle Manual for Details):

- 1. Prepare Vehicle:** Safely lift and support the vehicle on a level surface. Remove the wheel from the side where the control arm will be replaced.
- 2. Access Control Arm:** Locate the existing control arm. Depending on the vehicle, this may involve removing other components for access.
- 3. Disconnect Ball Joint:** Separate the ball joint from the steering knuckle. This often requires a ball joint separator tool.
- 4. Remove Control Arm Bolts:** Unbolt the control arm from the subframe or chassis mounting points. Note the

orientation of all components.

5. **Remove Old Control Arm:** Carefully remove the old control arm.
6. **Install New Control Arm:** Position the new Delphi TC2246 control arm into place. Loosely install the mounting bolts.
7. **Connect Ball Joint:** Connect the new ball joint to the steering knuckle. Install the provided nut and tighten to vehicle manufacturer's specifications.
8. **Torque Bolts:** With the vehicle's suspension loaded (or at ride height, as specified by the vehicle manual), tighten all control arm mounting bolts to the manufacturer's specified torque. This is crucial for proper bushing life and suspension function.
9. **Reassemble:** Reinstall any removed components and the wheel.
10. **Alignment:** After replacing suspension components, a professional wheel alignment is highly recommended to ensure proper handling and tire wear.



Image: Top view of the Delphi TC2246 control arm, highlighting the overall shape and ball joint end.



Image: Side profile of the Delphi TC2246 control arm, showing the curvature and bushing housing.

6. MAINTENANCE

The Delphi TC2246 Suspension Control Arm and Ball Joint Assembly is designed for long-term, maintenance-free operation under normal driving conditions. Regular inspection of suspension components is recommended as part of routine vehicle maintenance.

Inspection Points:

- **Ball Joint Boots:** Check for tears, cracks, or signs of grease leakage. Damaged boots can lead to premature ball joint failure.
- **Bushings:** Inspect the rubber bushings at the control arm mounting points for cracks, excessive wear, or separation from the metal sleeve.
- **Component Play:** With the vehicle safely supported, check for any excessive play in the ball joint or control arm bushings. This typically involves using a pry bar to check for movement.
- **Corrosion:** Examine the control arm for significant corrosion, especially in areas where it might compromise structural integrity.

If any issues are detected during inspection, consult a qualified technician for diagnosis and potential replacement.

7. TROUBLESHOOTING COMMON SUSPENSION ISSUES

This section outlines common symptoms associated with worn or failing suspension components, including control arms and ball joints. Note that these symptoms can also indicate issues with other suspension or steering parts.

Symptom	Possible Cause (Control Arm/Ball Joint Related)	Recommended Action
Clunking or popping noises over bumps	Worn ball joint, loose control arm bolts, worn control arm bushings.	Inspect ball joint and bushings for play. Check bolt torque.
Excessive play in steering	Worn ball joint, worn control arm bushings.	Inspect ball joint and bushings for play.
Uneven tire wear	Bent control arm, worn ball joint, worn control arm bushings affecting alignment.	Inspect components for damage/wear. Perform wheel alignment.
Vehicle pulls to one side	Bent control arm, worn control arm bushings affecting alignment.	Inspect components for damage/wear. Perform wheel alignment.

If you experience any of these symptoms, it is crucial to have your vehicle inspected by a qualified mechanic to prevent further damage or safety hazards.

8. WARRANTY INFORMATION

Important Warranty Notice: Delphi products purchased through, from, or on Amazon do not qualify for Delphi’s standard LIMITED warranty. When purchased through, from, or on Amazon, any warranty on this product is offered by and is the sole responsibility of the seller identified on the shipment details of your order. Please review all warranties carefully and contact the identified seller for all warranty details and claims.

It is recommended to retain your purchase receipt and seller information for any potential warranty claims.

9. SUPPORT AND CONTACT

For technical assistance, installation questions, or warranty claims, please refer to the contact information provided by the seller from whom this product was purchased. For general product information about Delphi automotive parts, you may visit the official Delphi website.

Online Resources:

- Delphi Official Website: www.delphiautoparts.com (for general product information)
- Seller Contact: Refer to your purchase documentation or order details for seller-specific support.

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