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- › [Delphi](#) /
- › [Delphi TC1582 Suspension Control Arm and Ball Joint Assembly Instruction Manual](#)

Delphi TC1582

Delphi TC1582 Suspension Control Arm and Ball Joint Assembly Instruction Manual

Model: TC1582

Brand: Delphi

1. INTRODUCTION

This manual provides essential information for the proper handling, installation, and maintenance of your Delphi TC1582 Suspension Control Arm and Ball Joint Assembly. This component is critical for your vehicle's suspension system, connecting the wheel hub to the chassis, allowing for controlled wheel movement, and maintaining proper wheel alignment. Correct installation and regular inspection are vital for vehicle safety and optimal handling performance.

2. PRODUCT OVERVIEW

The Delphi TC1582 is a complete assembly designed for specific vehicle applications. It includes the control arm, a pre-installed ball joint, and necessary securing hardware (nut). The control arm is a structural link that guides the wheel's vertical motion, while the ball joint allows for steering and suspension articulation.



This image displays the Delphi TC1582 Suspension Control Arm and Ball Joint Assembly. It features a black, curved control arm with a ball joint at one end and a bushing assembly at the other, along with a securing nut.

3. SPECIFICATIONS

| Feature | Detail |
|---------|--------|
| Brand | Delphi |

| Feature | Detail |
|--------------------|---|
| Model Number | TC1582 |
| Part Type | Suspension Control Arm and Ball Joint Assembly |
| Auto Part Position | Front |
| Fit Type | Vehicle Specific Fit |
| Item Weight | 8.55 pounds |
| Product Dimensions | 24.1 x 8.4 x 5.2 inches |
| UPC | 689604253434 |
| OEM Part Numbers | 101-5540, 102-5540, 520-347, CB30825, CB30825PR, CK80437, CK80577, CMS9879, GS9879, JTC725, K80437, K80577, K80829, MB912511, MR296287, MR296289, MR296291, MR296319, MS-H205, MS9879, MS9957, RK80437, RK80577 |

4. INSTALLATION INSTRUCTIONS

Installation of suspension components requires specialized tools and knowledge. It is highly recommended that this part be installed by a qualified automotive technician. Improper installation can lead to vehicle damage, loss of control, and serious injury.

General Installation Steps:

- Safety First:** Ensure the vehicle is on a level, stable surface. Use appropriate jack stands and wheel chocks. Disconnect the battery if necessary.
- Prepare Vehicle:** Remove the wheel from the side where the control arm will be replaced.
- Remove Old Component:** Carefully loosen and remove all fasteners connecting the old control arm to the vehicle chassis and the steering knuckle. Use appropriate tools to separate the ball joint from the knuckle.
- Inspect Surrounding Parts:** Before installing the new part, inspect adjacent suspension and steering components for wear or damage. Replace any worn parts as needed.
- Install New Control Arm:** Position the new Delphi TC1582 control arm into place. Ensure all mounting points align correctly.
- Secure Fasteners:** Install all bolts and nuts. **Do not fully tighten fasteners until the vehicle's weight is on the suspension (or at ride height)** to prevent premature bushing wear. Refer to your vehicle's service manual for specific torque specifications.
- Reassemble:** Reinstall the wheel and lower the vehicle.
- Wheel Alignment:** After replacing any suspension component, a professional wheel alignment is mandatory to ensure correct steering and tire wear.

5. MAINTENANCE

Regular inspection of your vehicle's suspension components can extend their lifespan and ensure safe

operation.

- **Visual Inspection:** Periodically inspect the control arm, ball joint, and bushings for signs of wear, cracks, tears in rubber boots, or corrosion.
- **Check for Play:** During routine service, have a technician check for excessive play in the ball joint or bushings.
- **Address Issues Promptly:** Any unusual noises, vibrations, or changes in vehicle handling should be investigated immediately by a qualified mechanic.

6. TROUBLESHOOTING COMMON ISSUES

If you experience any of the following symptoms, your control arm or ball joint may require inspection or replacement:

- **Symptom:** Clunking or rattling noises, especially over bumps or uneven roads.
Possible Cause: Worn ball joint, loose fasteners, or deteriorated control arm bushings.
- **Symptom:** Uneven tire wear (e.g., inner or outer edge wear).
Possible Cause: Incorrect wheel alignment often caused by worn suspension components.
- **Symptom:** Loose or wandering steering, difficulty maintaining a straight line.
Possible Cause: Excessive play in ball joints or control arm bushings.
- **Symptom:** Vehicle pulling to one side.
Possible Cause: Worn suspension components affecting alignment.

If any of these symptoms are present, it is crucial to have your vehicle inspected by a qualified mechanic to diagnose and rectify the issue.

7. WARRANTY AND SUPPORT

Delphi products purchased through, from, or on Amazon do not qualify for Delphi's standard LIMITED warranty. 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.

For additional product information or support, please visit the official Delphi store on Amazon: [Delphi Store](#).