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## OTC 6533

# OTC 6533 Separator Tool User Manual

**Brand:** OTC

**Model:** 6533

## INTRODUCTION

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The OTC 6533 Separator Tool is a versatile instrument designed for various automotive repair tasks. Its robust construction and specialized design make it an essential tool for professional technicians and DIY enthusiasts alike.

This tool is specifically engineered for:

- Removing camber adjustment sleeves on Ford pickups with adjustable camber.
- Separating tie rods on medium- and heavy-duty trucks.
- Functioning as a Pitman arm wedge on light trucks.

With a length of 11-5/8 inches and a 1-7/16 inch fork spread, the OTC 6533 provides the leverage and precision required for demanding applications.

## SAFETY INFORMATION

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Always prioritize safety when using any automotive tool. Failure to follow safety precautions can result in serious injury or damage to equipment.

- **Eye Protection:** Always wear ANSI-approved safety goggles or a face shield to protect against flying debris.
- **Hand Protection:** Wear appropriate work gloves to prevent cuts, abrasions, and chemical exposure.
- **Stable Work Area:** Ensure the vehicle is securely supported on jack stands or a lift. Never work under a vehicle supported only by a jack.
- **Proper Tool Usage:** Use the tool only for its intended purpose. Do not modify the tool or use it if it is damaged.
- **Clearance:** Ensure adequate clearance around the work area to prevent accidental contact with moving parts or other objects.
- **Read Vehicle Manual:** Consult the vehicle manufacturer's service manual for specific procedures and torque specifications.
- **California Proposition 65 Warning:** This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to

## WHAT'S IN THE BOX

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Your OTC 6533 Separator Tool package includes:

- 1 x OTC 6533 Separator Tool



Image: The OTC 6533 Separator Tool, a silver-colored, fork-shaped tool with a knurled handle, designed for automotive separation tasks.

## SETUP

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The OTC 6533 Separator Tool is designed for immediate use and requires no assembly. Before beginning any task, ensure the tool is clean and free of any debris or damage. Inspect the fork and handle for any signs of wear or cracks.

Prepare your work area by ensuring it is well-lit, clean, and free of obstructions. Gather any additional tools required for the specific task, such as wrenches, hammers, or vehicle-specific service manuals.

## OPERATING INSTRUCTIONS

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The OTC 6533 Separator Tool is designed for three primary applications:

## 1. Removing Camber Adjustment Sleeves (Ford Pickups)

This procedure applies to Ford pickups equipped with adjustable camber sleeves.

1. **Prepare Vehicle:** Safely lift and support the front of the Ford pickup, ensuring the wheel is removed to access the suspension components.
2. **Locate Sleeve:** Identify the camber adjustment sleeve. It is typically located in the upper control arm or steering knuckle.
3. **Position Tool:** Insert the fork of the OTC 6533 tool around the camber adjustment sleeve, ensuring a firm and stable grip.
4. **Apply Force:** Using a hammer, strike the end of the tool's handle to drive the fork between the sleeve and its housing. Apply controlled, firm blows until the sleeve begins to separate.
5. **Remove Sleeve:** Once sufficiently loosened, carefully pry the sleeve out.
6. **Inspect:** Inspect the sleeve and surrounding components for damage.

## 2. Separating Tie Rods (Medium- and Heavy-Duty Trucks)

This method is effective for separating stubborn tie rod ends from steering knuckles.

1. **Loosen Nut:** Loosen, but do not fully remove, the castle nut or retaining nut on the tie rod end. Leave it on a few threads to prevent the tie rod from dropping suddenly.
2. **Position Tool:** Place the fork of the OTC 6533 tool between the tie rod end and the steering knuckle, ensuring the tapered pin of the tie rod end is within the fork's opening.
3. **Apply Force:** Strike the end of the tool's handle with a hammer. The shock from the hammer blow, combined with the wedge action of the tool, will typically free the tie rod end from its tapered seat.
4. **Remove Components:** Once separated, remove the retaining nut and the tie rod end.

## 3. Pitman Arm Wedge (Light Trucks)

The tool can be used to separate the Pitman arm from the steering gear box on light trucks.

1. **Access Pitman Arm:** Ensure clear access to the Pitman arm and steering gear box. This may require lifting the vehicle and removing the front wheel.
2. **Loosen Nut:** Loosen the large retaining nut that secures the Pitman arm to the steering gear box shaft, but do not remove it completely.
3. **Position Tool:** Insert the fork of the OTC 6533 tool between the Pitman arm and the steering gear box housing, aligning it with the tapered shaft.
4. **Apply Force:** Strike the end of the tool's handle with a hammer. The wedge action will apply pressure to separate the Pitman arm from the tapered shaft.
5. **Remove Arm:** Once separated, remove the retaining nut and the Pitman arm.

## MAINTENANCE

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Proper maintenance will extend the life of your OTC 6533 Separator Tool.

- **Cleaning:** After each use, wipe the tool clean with a rag to remove grease, dirt, and debris.
- **Lubrication:** Periodically apply a light coat of oil to the tool to prevent rust, especially if storing for extended periods or in humid environments.
- **Inspection:** Regularly inspect the tool for any signs of wear, bending, cracks, or damage. If damage is found, discontinue use and replace the tool.

- **Storage:** Store the tool in a dry, clean place, away from corrosive materials and extreme temperatures.

## TROUBLESHOOTING

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Most issues with the OTC 6533 Separator Tool relate to improper application or excessive force.

Problem	Possible Cause	Solution
Tool not separating component	Insufficient force applied; component seized due to rust/corrosion; incorrect tool positioning.	Apply firmer, controlled hammer blows. Use penetrating oil on seized components. Re-position tool for optimal leverage. Ensure the tool is correctly sized for the application.
Tool slipping off component	Improper positioning; greasy surface.	Ensure the fork is fully seated. Clean any grease or oil from the contact surfaces.
Damage to tool or component	Excessive force; improper angle; using tool for unintended purpose.	Use appropriate force. Ensure correct angle of attack. Verify the tool is suitable for the specific task. Replace damaged tools immediately.

## SPECIFICATIONS

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**Model:** OTC 6533

**Manufacturer:** OTC

**Item Weight:** 2 pounds

**Product Dimensions:** 14.7 x 4.3 x 2 inches

**Fork Spread:** 1-7/16 inches

**Overall Length:** 11-5/8 inches

**Part Number:** 6533

**First Available:** October 4, 2004

## WARRANTY AND SUPPORT

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OTC stands behind the quality of its products. The OTC 6533 Separator Tool is backed by a **Lifetime Warranty**, reflecting OTC's commitment to durability and performance.

For warranty claims, technical assistance, or product inquiries, please visit the official OTC website or contact their customer support. Keep your purchase receipt as proof of ownership.

For more information, visit the [OTC Store on Amazon](#).