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› OCPTY 6-Piece Suspension Kit Installation and Maintenance Manual for Chrysler Town & Country, Dodge Caravan, and Dodge Grand Caravan (2001-2007)

OCPTY 809954-5209-0933550431

OCPTY 6-Piece Suspension Kit Instruction Manual

For Chrysler Town & Country, Dodge Caravan, and Dodge Grand Caravan (2001-2007)

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your OCPTY 6-Piece Suspension Kit. Please read these instructions carefully before proceeding with installation to ensure proper function and safety. Professional installation is recommended.

2. PRODUCT OVERVIEW

The OCPTY 6-Piece Suspension Kit is designed to restore your vehicle's suspension performance. The suspension system is crucial for transmitting forces between the wheels and the frame, absorbing road impacts, and maintaining vehicle stability and handling. This kit includes components manufactured from forged steel with plastic inserts, filled with grease, and phosphatized for enhanced strength and aesthetics.



Image: Suspension component undergoing quality testing to ensure durability and performance.



Image: Detailed views of various suspension components, highlighting their construction and design.



Image: A diagram showing the intricate parts of a vehicle's suspension system, emphasizing its role in vehicle dynamics.

3. COMPATIBILITY

This OCPTY 6-Piece Suspension Kit is compatible with the following vehicle models:

- 2001-2007 Chrysler Town & Country
- 2001-2003 Chrysler Voyager
- 2001-2007 Dodge Caravan
- 2001-2007 Dodge Grand Caravan

Important: Always verify part suitability for your specific vehicle model and year before purchase and installation.

4. PACKAGE CONTENTS

The OCPTY 6-Piece Suspension Kit includes the following components:

- 2 x EV405 Front Inner Tie Rod Ends
- 2 x ES3537 Front Outer Tie Rod Ends
- 2 x K7258 Front Sway Bar End Links



Image: The complete OCPTY 6-Piece Suspension Kit, showing two front sway bar end links, two inner tie rod ends, and two outer tie rod ends.

5. SAFETY INFORMATION

Working on vehicle suspension systems requires specialized tools and knowledge. Improper installation can lead to serious injury or vehicle damage. Always follow these safety guidelines:

- 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 any work. Never rely solely on a jack.
- Disconnect the battery if working near electrical components.
- Refer to your vehicle's service manual for specific torque specifications and procedures.
- Keep children and pets away from the work area.
- If you are unsure about any step, consult a qualified mechanic.

6. SETUP AND INSTALLATION

This section provides a general overview of the installation process. Specific steps may vary depending on your vehicle model. Always consult your vehicle's factory service manual for detailed instructions.

General Installation Steps:

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the rear wheels. Loosen the lug nuts on the front wheels.
2. **Lift and Secure:** Jack up the front of the vehicle and support it securely with jack stands. Remove the front wheels.
3. **Remove Old Components:**
 - **Sway Bar End Links:** Locate and remove the nuts securing the old sway bar end links to the sway bar and the strut.
 - **Outer Tie Rod Ends:** Remove the cotter pin and castle nut from the outer tie rod end. Use a tie rod separator tool to disconnect it from the steering knuckle.
 - **Inner Tie Rod Ends:** Mark the position of the outer tie rod end on the inner tie rod for alignment reference. Loosen the jam nut. Remove the inner tie rod end from the steering rack using an inner tie rod removal tool.
4. **Install New Components:**
 - **Inner Tie Rod Ends:** Thread the new inner tie rod end onto the steering rack, ensuring it is tightened to manufacturer specifications.
 - **Outer Tie Rod Ends:** Thread the new outer tie rod end onto the inner tie rod, aligning it with your previous mark. Connect it to the steering knuckle, install the castle nut, and secure with a new cotter pin.
 - **Sway Bar End Links:** Install the new sway bar end links, securing them with the provided nuts and tightening to specifications.
5. **Reassemble and Torque:** Reinstall the front wheels and hand-tighten lug nuts. Lower the vehicle to the ground and torque the lug nuts to factory specifications.
6. **Wheel Alignment:** After replacing tie rod ends, a professional wheel alignment is mandatory to ensure proper steering and tire wear.

7. POST-INSTALLATION CHECKS AND OPERATION

After installation, perform the following checks to ensure proper operation:

- **Visual Inspection:** Double-check all nuts, bolts, and fasteners to ensure they are properly tightened. Verify that all components are correctly seated and free from interference.
- **Test Drive:** Drive the vehicle slowly in a safe area, listening for any unusual noises (clunks, squeaks, rattles) and observing steering response. Gradually increase speed and test braking.
- **Steering Feel:** The steering should feel responsive and centered. If the steering wheel is off-center or the vehicle pulls to one side, a wheel alignment is required.
- **Suspension Response:** The vehicle should feel stable over bumps and during turns. Excessive bouncing or swaying indicates potential issues.

8. MAINTENANCE

Regular inspection and maintenance of your suspension components are essential for vehicle safety and longevity.

- **Routine Checks:** During routine oil changes or tire rotations, visually inspect all suspension components for signs of wear, damage, or loose connections.
- **Greasing:** If components are equipped with grease fittings, lubricate them periodically according to your vehicle's service schedule using appropriate chassis grease.
- **Alignment:** Have your wheel alignment checked annually or whenever new suspension components are installed.
- **Listen for Noises:** Pay attention to any new noises (clunking, squeaking, rattling) coming from the suspension, as these can indicate worn or damaged parts.



Image: Visual comparison illustrating the difference between a vehicle with properly functioning suspension (stable) and one with worn suspension (unstable).

9. TROUBLESHOOTING

If you experience any issues after installation or during normal operation, consider the following common problems and solutions:

Symptom	Possible Cause	Solution
Steering wheel off-center or vehicle pulls to one side	Incorrect wheel alignment after tie rod replacement.	Perform a professional wheel alignment.
Clunking or rattling noises over bumps	Loose fasteners on new components, worn sway bar end links, or other worn suspension parts.	Inspect all connections for tightness. Check other suspension components for wear.
Excessive vehicle bounce or sway	Worn shock absorbers/struts (not included in this kit), or other suspension issues.	Inspect shock absorbers/struts and other suspension components.
Uneven tire wear	Incorrect wheel alignment, worn tie rod ends, or other suspension issues.	Perform a professional wheel alignment. Inspect and replace any worn components.

If troubleshooting steps do not resolve the issue, it is recommended to consult a certified automotive technician.

10. SPECIFICATIONS

Attribute	Detail
Brand	OCPTY
Model Number	809954-5209-0933550431
OEM Part Numbers	EV405 (Inner Tie Rod), ES3537 (Outer Tie Rod), K7258 (Sway Bar End Link)
Item Weight	8.82 pounds
Product Dimensions	14.57 x 4.72 x 4.13 inches
Exterior Finish	Proprietary Coating
Material	Forged Steel with Plastic Insert
Lubrication	Pre-filled with grease

11. WARRANTY INFORMATION

Specific warranty details for this OCPTY product are not provided within this manual. For information regarding product warranty, please refer to the official OCPTY website or contact their customer support directly. Keep your proof of purchase for any warranty claims.

12. SUPPORT

For further assistance, technical questions, or to report any issues, please visit the OCPTY official website or contact their customer service department. Contact information is typically available on the product packaging or the manufacturer's website.

