

## Plews 80618

# Edelmann 80618 Power Steering Return Hose User Manual

Model: 80618 | Brand: Plews

## INTRODUCTION

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This manual provides detailed instructions for the proper installation, operation, and maintenance of your Edelmann 80618 Power Steering Return Hose. Adhering to these guidelines will help ensure the longevity and optimal performance of your power steering system. Please read all instructions carefully before beginning any work.

## PRODUCT OVERVIEW

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The Edelmann 80618 Power Steering Return Hose is engineered to meet or exceed original equipment (OE) specifications for form, fit, and function. It is designed for durability and reliable performance under various operating conditions.

### Key Features:

- **OE Quality Materials:** Crafted from long-lasting, high-performing materials to ensure durability under harsh road conditions.
- **Precise Fit:** OE fit, form, and function ensure ease of installation, correct hose/tube routing, and leak-free performance.
- **Temperature Resistance:** Hose construction withstands internal oil temperatures of up to 300 degrees Fahrenheit, ensuring component integrity in high-heat, high-stress operating environments.
- **Corrosion Protection:** Tubing is coated with a Zinc-Aluminum Alloy with an Aluminum-Rich Epoxy topcoat, and the couplings and fittings are zinc-plated for rust and corrosion protection.
- **Specifications:** Features a 3/8 inch Male Quick Connect Fitting X 3/8 inch I.D. Hose with a 28.00 inch length.

### What's in the Box:

- 1 x Edelmann 80618 Power Steering Return Hose



Figure 1: Edelmann 80618 Power Steering Return Hose. This image displays the complete power steering return hose, highlighting its construction and fittings.



Figure 2: Close-up view of the Edelmann 80618 Power Steering Return Hose end, showing the quick connect fitting.

## INSTALLATION INSTRUCTIONS

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**Safety First: Always wear appropriate personal protective equipment (PPE) such as safety glasses and gloves. Ensure the vehicle is securely supported on jack stands or a lift before working underneath. Disconnect the negative battery terminal before starting work.**

1. **Prepare the Vehicle:** Safely lift and support the vehicle. Ensure the engine is cool.
2. **Access the Hose:** Locate the power steering return hose. Depending on your vehicle model, you may need to remove the radiator cover and/or grille to access the power steering cooler connection.

3. **Drain Power Steering Fluid:** Place a drain pan underneath the power steering cooler connection. Carefully disconnect the return hose from the power steering cooler and allow the fluid to drain completely.
4. **Remove Underbody Shield (if applicable):** If present, remove any underbody shields or skid plates that obstruct access to the power steering steering gear connection.
5. **Disconnect from Steering Gear:** Locate the connection point of the power steering return hose to the steering gear. Loosen and remove the bolt securing the hose. Carefully disconnect the hose, allowing any remaining fluid to drain.
6. **Remove Old Hose:** Carefully route and remove the old power steering return hose from the vehicle. Note its routing to ensure the new hose is installed correctly.
7. **Install New Hose:**
  - Lubricate the ends of the new Edelmann 80618 Power Steering Return Hose with fresh power steering fluid to aid installation and prevent damage to seals.
  - Connect the new hose to the steering gear, ensuring proper alignment. Insert the securing bolt and tighten it to the manufacturer's specified torque (typically around 106 inch-pounds, refer to your vehicle's service manual for exact specifications).
  - Connect the other end of the hose to the power steering cooler. Secure it with a new hose clamp, preferably a worm clamp, ensuring a tight, leak-free seal.
8. **Reinstall Components:** Reinstall any removed underbody shields, radiator covers, or grilles.
9. **Refill and Bleed System:**
  - Fill the power steering reservoir with the appropriate type of power steering fluid for your vehicle.
  - With the front wheels off the ground and the engine off, turn the steering wheel slowly from lock-to-lock (full left to full right) about 10 times. This helps to bleed air from the system.
  - Check the fluid level in the reservoir and top up if necessary.
  - Start the engine and allow it to run for a few minutes. Repeat the lock-to-lock steering procedure with the engine running to further bleed the system.
  - Shut off the engine, recheck the fluid level, and adjust to the 'Full Hot' or 'Full Cold' mark on the dipstick as appropriate for your vehicle's temperature.
10. **Final Check:** Inspect all connections for leaks. Lower the vehicle and test the power steering system.

## General Power Steering Hose Information:

Your browser does not support the video tag.

Video 1: A-Premium Power Steering Hose Line. This video provides a general overview of power steering hose lines and their function within a vehicle's steering system.

## OPERATING

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After successful installation and bleeding of the power steering system, the Edelmann 80618 Power Steering Return Hose operates as an integral part of your vehicle's power steering circuit. It is designed to return low-pressure power steering fluid from the steering gear back to the power steering cooler or reservoir.

### Initial Startup:

- After installation, ensure the power steering fluid reservoir is filled to the correct level.

- Start the engine and listen for any unusual noises (e.g., whining, groaning). These may indicate air still in the system.
- Turn the steering wheel slowly from lock-to-lock a few times to circulate the fluid and expel any remaining air.
- Recheck the fluid level after a short drive and top up if necessary.

## MAINTENANCE

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Regular inspection and maintenance of your power steering system, including the return hose, are crucial for optimal performance and safety.

### Recommended Checks:

- **Fluid Level:** Check the power steering fluid level regularly (e.g., every oil change or as recommended by your vehicle manufacturer). Maintain the fluid level between the 'MIN' and 'MAX' marks on the reservoir dipstick.
- **Fluid Condition:** Inspect the power steering fluid for discoloration or burnt smell. Dark, murky fluid may indicate contamination or overheating and should be replaced.
- **Hose Inspection:** Periodically inspect the Edelmann 80618 Power Steering Return Hose for any signs of wear, cracks, bulges, or leaks. Pay close attention to the connections and crimped areas.
- **Clamps and Fittings:** Ensure all hose clamps and fittings are secure and free from corrosion.

## TROUBLESHOOTING

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If you experience issues with your power steering system after installing the Edelmann 80618 Power Steering Return Hose, consider the following common problems and solutions:

### Common Issues:

- **Power Steering Fluid Leak:**
  - **Cause:** Loose connections, damaged seals, or improper installation.
  - **Solution:** Inspect all connection points (steering gear, cooler) for tightness. Ensure seals are properly seated and not damaged. If leaks persist, re-evaluate installation steps or consult a qualified mechanic.
- **Whining or Groaning Noise:**
  - **Cause:** Air trapped in the power steering system or low fluid level.
  - **Solution:** Check the fluid level and top up if needed. Re-bleed the power steering system by turning the steering wheel lock-to-lock with the engine off and then running, as described in the installation section.
- **Stiff Steering:**
  - **Cause:** Low fluid level, air in the system, or a faulty power steering pump (unrelated to hose).
  - **Solution:** Check fluid level and bleed the system. If the problem persists, further diagnosis of the power steering pump or steering gear may be required.

## SPECIFICATIONS

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Brand	Plews
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<b>Manufacturer</b>	Edelmann
<b>Model Number</b>	80618
<b>Material</b>	Synthetic Rubber Plastic
<b>Color</b>	Black
<b>Maximum Pressure</b>	1500 Pound per Square Inch
<b>Item Length</b>	28 Inches
<b>UPC</b>	021597806189
<b>Item Weight</b>	5.6 ounces
<b>OEM Part Number</b>	15186857; 15812565; 25858604

## WARRANTY AND SUPPORT

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For specific warranty information or technical support regarding your Edelmann 80618 Power Steering Return Hose, please refer to the product packaging or contact Plews customer service directly. Keep your proof of purchase for any warranty claims.