

Plews 71308

Plews Edelmann 71308 Power Steering Pressure Hose Instruction Manual

Model: 71308 | Brand: Plews

1. INTRODUCTION

This manual provides essential information for the proper handling, installation, and maintenance of the Plews Edelmann 71308 Power Steering Pressure Hose. This component is designed to meet or exceed original equipment (OE) specifications, ensuring reliable performance in your vehicle's power steering system. It is engineered for durability, featuring high resistance to oil, heat, and ozone, which are common factors leading to premature failure in standard assemblies.

The hose construction includes a tube capable of withstanding internal oil temperatures up to 300 degrees Fahrenheit and double piles of high-tensile strength braided fabric, allowing it to manage pulsation pressures up to 1,500 psi and bursting pressures up to 8,900 psi. Tubing is Pro-coated or terne coated, and couplings and fittings are zinc-chromate plated for enhanced rust and corrosion protection. A uniform crimping process ensures a secure, long-lasting connection, with flared ferrule ends to prevent pinching or cutting under tight-bend conditions. Tapered crimp design helps relieve stress and eliminate tube fatigue. Mounting brackets, heat shields, and convoluted sheathing are included where applicable to ensure a perfectly aligned and stable installation, mirroring OE features for optimal fit and function.

2. PRODUCT OVERVIEW

The Edelmann 71308 Power Steering Pressure Hose is a critical component in your vehicle's power steering system, responsible for transmitting hydraulic pressure from the power steering pump to the steering gear. Its robust design ensures efficient and safe operation.

Key Features:

- Original equipment equivalent design for precise fit and function.
- Withstands internal oil temperatures up to 300 degrees Fahrenheit.
- Highly resistant to oil, heat, and ozone for extended lifespan.

- Hose assemblies withstand pulsation pressures up to 1,500 psi and bursting pressures up to 8,900 psi.
- Includes mounting brackets, heat shields, and convoluted sheathing where applicable for protection and stable installation.
- Features 3/8 inch male inverted flare x 7/16 inch male inverted flare connections.



Figure 1: Overall view of the Edelmann 71308 Power Steering Pressure Hose. This image displays the full length of the black synthetic rubber hose with its metal end fittings and a yellow protective cap.



Figure 2: Close-up view of one end fitting of the power steering hose. This image highlights the metal tubing and the threaded connection point, showing the precision engineering of the component.



Figure 3: Close-up view of the second end fitting of the power steering hose. This image provides another detailed look at the metal tubing and the connection, emphasizing the quality of the crimping and plating.

3. SETUP AND INSTALLATION

Safety Warning:

Working on a vehicle's power steering system involves high-pressure fluids and can be hazardous. Improper installation can lead to fluid leaks, system failure, and potential injury. It is highly recommended that installation be performed by a qualified automotive technician. Always refer to your vehicle's specific service manual for detailed, model-specific instructions and safety precautions.

General Installation Guidelines:

1. **Preparation:** Ensure the vehicle is safely supported on jack stands or a lift. Disconnect the battery. Allow the engine to cool completely.
2. **Fluid Drainage:** Place a drain pan under the power steering pump and steering gear. Carefully disconnect the old pressure hose, allowing power steering fluid to drain. Be prepared for fluid spillage.
3. **Old Hose Removal:** Remove any mounting brackets or clips securing the old hose. Carefully detach the hose from both the pump and the steering gear.
4. **New Hose Installation:** Compare the new Edelmann 71308 hose with the old one to ensure it is the correct replacement. Install the new hose, ensuring all connections are clean and free of debris. Hand-tighten fittings first to prevent cross-threading.
5. **Torque Specifications:** Tighten all fittings to the torque specifications provided in your vehicle's service manual. Overtightening or undertightening can lead to leaks or damage.
6. **Secure Mounting:** Reattach any mounting brackets or clips to secure the hose, preventing chafing or contact with moving parts or hot surfaces.
7. **Fluid Refill and Bleeding:** Refill the power steering reservoir with the manufacturer-recommended power steering fluid. Start the engine and slowly turn the steering wheel from lock to lock several times to bleed air from the system. Monitor the fluid level and top up as necessary.
8. **Leak Check:** After bleeding, inspect all connections for leaks while the engine is running and the steering wheel is being turned.

4. OPERATING CONSIDERATIONS

Once correctly installed, the Edelmann 71308 Power Steering Pressure Hose operates as an integral part of your vehicle's power steering system. Proper operation is directly dependent on the integrity of the entire system, including the power steering pump, steering gear, and fluid. Ensure that the power steering fluid level is maintained within the manufacturer's recommended range and that the correct type of fluid is used. Any unusual noises (whining, groaning), difficulty in steering, or visible fluid leaks should be addressed immediately by a qualified technician.

5. MAINTENANCE

Regular inspection and maintenance are crucial for the longevity and safe operation of your power steering system, including the pressure hose.

Recommended Maintenance Practices:

- **Visual Inspection:** Periodically inspect the power steering pressure hose for any signs of wear, cracks, chafing, bulges, or leaks. Pay close attention to the crimped ends and areas where the hose bends or passes near hot engine components.
- **Fluid Level Check:** Check the power steering fluid level regularly, typically during oil changes. Low fluid levels can indicate a leak in the system, including the hose.
- **Fluid Condition:** Observe the color and smell of the power steering fluid. Dark, burnt-smelling fluid may indicate overheating or contamination and should be replaced.
- **Hose Replacement:** While there is no universal replacement interval, hoses can degrade over time due to heat, vibration, and chemical exposure. If any signs of damage or degradation are observed, the hose should be replaced immediately. Consult your vehicle's service manual for recommended inspection intervals.

6. TROUBLESHOOTING

This section addresses common issues related to power steering hoses. Always consult a qualified technician for diagnosis and repair.

Common Issues and Potential Causes:

- **Fluid Leaks:**
 - **Cause:** Loose connections, damaged O-rings/seals, cracks or punctures in the hose, degraded crimps.
 - **Action:** Inspect all connections for tightness. Check the entire length of the hose for visible damage. Replace the hose if damage is found.
- **Whining or Groaning Noise:**
 - **Cause:** Low power steering fluid level, air in the power steering system, failing power steering pump.
 - **Action:** Check fluid level and top up. Bleed the system to remove air. If noise persists, further diagnosis by a technician is required.
- **Difficulty Steering / Loss of Power Assist:**
 - **Cause:** Low power steering fluid, clogged hose, failing power steering pump, steering gear issue.
 - **Action:** Check fluid level. Inspect the hose for kinks or blockages. Professional diagnosis is essential.

7. SPECIFICATIONS

Attribute	Value
Brand	Plews
Model Number	71308
Material	Synthetic Rubber
Color	Black

Item Weight	0.65 Pounds (approx. 10.4 ounces)
Maximum Pulsation Pressure	1,500 psi
Maximum Bursting Pressure	8,900 psi
Maximum Internal Oil Temperature	300°F
Connections	3/8 inch male inverted flare x 7/16 inch male inverted flare
UPC	021597813088
Manufacturer	Plews & Edelman

8. WARRANTY INFORMATION

Specific warranty details for the Edelman 71308 Power Steering Pressure Hose are typically provided by the manufacturer, Plews & Edelman, or the retailer at the time of purchase. Please retain your proof of purchase. For detailed warranty terms and conditions, including coverage period and claims process, refer to the documentation included with your product or visit the official Plews & Edelman website. In most cases, warranties cover defects in materials and workmanship under normal use.

9. SUPPORT

For technical assistance, installation questions, or warranty claims, please contact the manufacturer or your authorized dealer. When contacting support, please have your product model number (71308) and proof of purchase readily available.

Manufacturer: Plews & Edelman

Website: www.plews-edelman.com (This is a placeholder link, actual link may vary)

It is always recommended to consult a certified automotive technician for any complex repairs or if you are unsure about any aspect of the installation or maintenance process.