

Plews 39109

Plews & Edelmann 39109 Power Steering Line End Fitting Assembly - 90 Degree Instruction Manual

Brand: Plews | Model: 39109

INTRODUCTION

This instruction manual provides essential information for the proper installation, function, and maintenance of the Plews & Edelmann 39109 Power Steering Line End Fitting Assembly. This component is designed to ensure a secure and leak-free connection within your vehicle's power steering system. Adherence to these instructions will help ensure optimal performance and longevity of the part.

SAFETY INFORMATION

Always prioritize safety when working on automotive systems. Failure to follow safety precautions can result in serious injury or damage to the vehicle.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands or a lift before working underneath it.
- Allow the engine and power steering system to cool down before beginning work to prevent burns from hot fluids or components.
- Disconnect the vehicle's battery to prevent accidental electrical discharge.
- Power steering fluid can be corrosive. Avoid contact with skin and eyes. In case of contact, rinse thoroughly with water and seek medical attention if irritation persists.
- Always consult your vehicle's specific service manual for detailed procedures, torque specifications, and fluid requirements.

PRODUCT OVERVIEW

The Plews & Edelmann 39109 is a 90-degree power steering line end fitting assembly designed for specific applications. It includes the main fitting, an O-ring for sealing, and a hose clamp for securing the hose.



Image 1: Components of the Plews & Edelmann 39109 Power Steering Line End Fitting Assembly. Shown are the 90-degree metal fitting, a black O-ring, a metal hose clamp, and a yellow protective cap.

The fitting is constructed from durable materials, featuring a zinc-aluminum alloy coating with an aluminum-rich epoxy topcoat, and zinc-plated couplings for rust and corrosion protection.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your power steering system. Refer to your vehicle's service manual for specific instructions and torque values.

1. **Preparation:** Ensure the vehicle is safely lifted and supported. Allow the engine to cool. Locate the power steering line requiring the fitting replacement or installation.
2. **Fluid Drainage:** If replacing an existing fitting, drain the power steering fluid from the system as per your vehicle's service manual.
3. **Component Inspection:** Carefully inspect the new Plews & Edelmann 39109 fitting, O-ring, and clamp for any signs of damage or manufacturing defects. Ensure the O-ring is correctly seated on the fitting.
4. **Connection:** Carefully thread the fitting into its designated port. Ensure it starts smoothly without cross-threading. Hand-tighten first, then use an appropriate wrench to tighten to the vehicle manufacturer's specified torque.
5. **Hose Attachment:** Slide the power steering hose onto the fitting. Position the hose clamp over the connection point and tighten it securely to prevent leaks.

6. **System Refill and Bleed:** Refill the power steering reservoir with the correct type and amount of power steering fluid specified by your vehicle manufacturer. Bleed the air from the system according to the vehicle's service manual.
7. **Leak Check:** Start the engine and turn the steering wheel from lock to lock several times to circulate the fluid and check for any leaks around the newly installed fitting. Address any leaks immediately.

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Video 1: This video demonstrates the general process of installing a power steering pressure line hose assembly, which includes connecting fittings. It provides a visual guide to the steps involved in securing power steering components.

OPERATING

The Plews & Edelmann 39109 Power Steering Line End Fitting Assembly is a passive component within the power steering system. Its primary function is to provide a sealed connection for the power steering fluid lines, ensuring the hydraulic pressure and fluid flow necessary for assisted steering. Once correctly installed, the fitting operates continuously as part of the system without requiring direct user interaction. After installation, monitor the power steering system for proper function, including smooth steering operation and the absence of unusual noises or fluid leaks.

MAINTENANCE

Regular inspection of your power steering system, including the Plews & Edelmann 39109 fitting, is recommended to ensure continued reliability.

- **Visual Inspection:** Periodically check the fitting and surrounding hose for any signs of fluid leaks, cracks, corrosion, or damage.
- **Fluid Level:** Regularly check the power steering fluid level and condition. Use only the fluid type recommended by your vehicle manufacturer.
- **Hose Condition:** Inspect the power steering hoses connected to the fitting for hardening, brittleness, or sponginess, which can indicate wear and potential failure.
- **Cleanliness:** Keep the area around the power steering components clean to easily spot any new leaks.

TROUBLESHOOTING

If you experience issues with your power steering system after installing the Plews & Edelmann 39109 fitting, consider the following common problems and solutions:

- **Fluid Leaks:**
 - **Cause:** Improperly tightened fitting, damaged O-ring, damaged hose, or cross-threaded connection.
 - **Solution:** Re-check torque specifications, inspect and replace O-ring if necessary, ensure hose is properly seated and clamp is secure. If cross-threaded, the fitting or port may need replacement.
- **Steering Difficulty/Noise:**
 - **Cause:** Air in the system, low fluid level, incorrect fluid type, or other power steering component failure.
 - **Solution:** Bleed the power steering system to remove air, check and top off fluid level with the correct fluid, or consult a professional for diagnosis of other components.

- **Fitting Does Not Seat Properly:**

- **Cause:** Incorrect part for the application, damaged threads on the fitting or mating port.
- **Solution:** Verify the part number matches the vehicle's requirements. Inspect threads for damage; if damaged, replacement of the affected component may be necessary.

For persistent issues, it is recommended to consult a qualified automotive technician.

SPECIFICATIONS

Brand	Plews
Model Number	39109
Manufacturer	Edelmann
Fitting Type	90 Degree Elbow
Material	Metal (fitting), Rubber (O-ring)
Color	Silver
Item Length	4.00 Inches
Item Weight	0.96 ounces (approx. 0.06 Pounds)
Exterior Finish	Machined
UPC	021597851097

WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the official Plews & Edelmann website or contact their customer support directly. Keep your purchase receipt as proof of purchase.

If you require technical assistance or have questions about the Plews & Edelmann 39109 Power Steering Line End Fitting Assembly, please contact Plews & Edelmann customer service. Contact details can typically be found on the manufacturer's official website or product packaging.