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> A-Premium Power Steering Pump with Reservoir User Manual APPSP0303C

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A-Premium Power Steering Pump with Reservoir User Manual

Model: APPSP0303C


PRODUCT OVERVIEW

This manual provides instructions for the A-Premium Power Steering Pump with Reservoir, Model APPSP0303C. This component is designed to assist in vehicle steering, ensuring smooth and responsive operation.

The power steering pump is a critical part of your vehicle's steering system, converting engine power into hydraulic pressure to make steering easier.

Key Features

- Brand new casting, not remanufactured, for long-term durability.
- Multi-layer sealing to prevent fluid leaks.
- One-piece reservoir with integrated filter for clean fluid flow.
- High-pressure outlet designed for consistent steering pressure.
- Large-diameter inlet to match original return hoses.
- High-strength cast iron pump body with corrosion-resistant finish.



VEHICLE FITMENT

<p>► Compatible with Chevrolet Models</p> <ul style="list-style-type: none"> • 2007-2013 Cheyenne 5.3L • 2007-2013 Avalanche 5.3L & 6.0L • 2007-2014 Suburban 1500 5.3L & 6.0L • 1999-2013 Silverado 1500 4.3L & 5.3L & 6.0L & 6.2L • 2007-2014 Tahoe 4.8L & 5.3L & 6.0L & 6.2L <p>► Compatible with GMC Models</p> <ul style="list-style-type: none"> • 2007-2014 Yukon XL 1500 5.3L & 6.0L & 6.2L • 1999-2013 Sierra 1500 4.3L & 5.3L & 6.0L & 6.2L • 2007-2014 Yukon 4.8L & 5.3L & 6.0L & 6.2L 	<p>► Compatible with Cadillac Models</p> <ul style="list-style-type: none"> • 2007-2014 Escalade 6.2L • 2007-2014 Escalade ESV 6.2L • 2007-2013 Escalade ESV 6.2L <p>► Compatible with Hummer Model</p> <ul style="list-style-type: none"> • 2008-2009 H2 6.2L <p>► Reference Numbers:</p> <ul style="list-style-type: none"> • 15076612, 15234826, 15909824, 20756714, 26041538, 26074333, 26081015, 88963603
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Image: A-Premium Power Steering Pump with Reservoir, highlighting its design and components.

VEHICLE FITMENT

This A-Premium Power Steering Pump (Model APPSP0303C) is compatible with various Chevrolet, GMC, Cadillac, and Hummer models. Please verify your vehicle's make, model, and year against the list below to ensure proper fitment.

Compatible Models

- **Chevrolet:**
 - C2500/C2500 Suburban/K2500/K2500 Suburban: 1996
 - Avalanche 1500/Suburban 1500: 2003
 - Avalanche/Cheyenne: 2007-2013
 - Suburban 1500/Tahoe: 2007-2014
 - Silverado 1500: 1999-2003
 - Suburban: 2014

- **Cadillac:**
 - Escalade: 2002-2003, 2007-2014
 - Escalade ESV: 2003, 2007-2014
 - Escalade EXT: 2003, 2007-2013
- **GMC:**
 - C2500/C2500 Suburban/K2500/K2500 Suburban: 1996
 - Sierra 1500: 1999-2013
 - Yukon/Yukon XL 1500: 2003
 - Yukon/Yukon XL 1500: 2007-2014
- **Hummer:**
 - H2: 2008-2009



Image: Detailed vehicle fitment chart for Chevrolet, GMC, Cadillac, and Hummer models.

INSTALLATION PRECAUTIONS AND SETUP

Attention:

Replacing a power steering pump can be complex. If you lack the necessary skills or tools, it is recommended to seek assistance from a qualified mechanic or refer to your vehicle's specific shop manual for detailed instructions.

General Installation Steps

1. Drain the previous power steering fluid before installation. Replace with OEM-recommended fluid.
2. Fill the reservoir with clean steering fluid up to the maximum level.
3. Lift the vehicle so the front axle is not under load.
4. With the engine off, turn the steering wheel slowly from one extreme to the other (twice).
5. Refill the reservoir with clean steering fluid up to the maximum level.
6. To prevent air intake, start the engine and add clean steering fluid to the reservoir at the same time.
7. Turn the steering wheel slowly from one side to the other (repeat 10-15 times). Do NOT hold the steering wheel at the extreme positions for more than 5 seconds. Do NOT turn the wheel sharply at the extreme positions, which may cause foam in the fluid. Repeat the above steps until no bubbles appear.
8. Fill the reservoir with clean steering fluid up to the maximum level and replace the reservoir cap tightly.
9. Check the steering system to avoid leaks.

10. Shut off the engine. After cooling off the engine, the fluid level in the reservoir should rise. Check if the fluid level exceeds the maximum mark. If the fluid level exceeds the maximum mark by 5mm, try to repeat the exhaust process.
11. Vehicle driving (check the fluid level before and after driving).
12. While the engine is running, add clean steering fluid to the reservoir up to the maximum level.

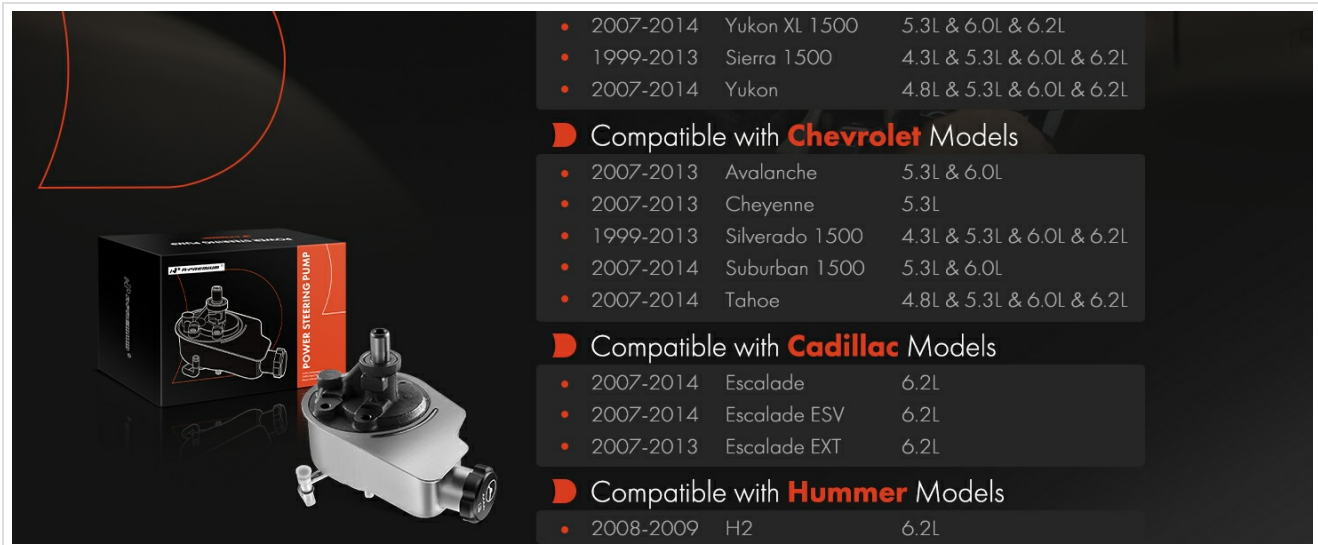


Image: Step-by-step guide for power steering pump installation and fluid exhaust process.

OPERATING THE POWER STEERING SYSTEM

Once properly installed and the system is bled of air, the power steering pump will provide hydraulic assistance for easier steering.

- Ensure the power steering fluid level is always within the recommended range.
- Listen for any unusual noises (e.g., whining, grinding) during steering, which may indicate an issue.
- Observe for any changes in steering feel, such as increased effort or looseness.

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Video: Demonstrates the function and smooth operation of the A-Premium Power Steering Pump within a vehicle's steering system.

MAINTENANCE

Regular maintenance of your power steering system is crucial for its longevity and optimal performance.

- **Fluid Level Check:** Periodically check the power steering fluid level, especially after installation or if you notice any changes in steering. Refer to your vehicle's owner's manual for the correct fluid type and level.
- **Fluid Condition:** Inspect the fluid for discoloration or burnt smell. Dark or contaminated fluid should be replaced.
- **Leak Inspection:** Regularly check hoses, connections, and the pump itself for any signs of fluid leaks. Address leaks promptly to prevent system damage.
- **Belt Inspection:** Ensure the serpentine belt driving the power steering pump is in good condition, free from cracks or excessive wear, and properly tensioned.

TROUBLESHOOTING

If you experience issues with your power steering system, consider the following common problems and potential

solutions:

Symptom	Possible Cause	Solution
Hard Steering	Low fluid level, worn pump, loose belt, air in system.	Check/refill fluid, inspect belt tension, bleed air from system, replace pump if necessary.
Unsmooth Steering	Contaminated fluid, air in system, worn steering rack.	Flush and replace fluid, bleed air from system, inspect steering rack.
Steering Noise (Whining/Groaning)	Low fluid level, air in system, worn pump bearings, contaminated fluid.	Check/refill fluid, bleed air from system, replace pump if noise persists.
Oil Leaking	Loose connections, damaged seals, cracked reservoir.	Tighten connections, replace seals/hoses, replace pump if reservoir is cracked.



Image: Visual guide to common symptoms that may indicate a need for power steering pump replacement.

SPECIFICATIONS

Feature	Detail
Brand	A-Premium
Model Number	APPSP0303C
Condition	Brand New (Not Remanufactured)
Pulley Included	No
Reservoir Included	Yes
Inlet Attachment Type	Hose Barb

Feature	Detail
Outlet Attachment Type	Threaded
Material	Cast Iron
Item Weight	10.39 pounds
Package Dimensions	11.46 x 10.83 x 7.28 inches
OEM Part Numbers	15076612, 15234826, 15909824, 20756714, 26041538, 26074333, 26081015, 88963603, 96-8740, 20-8740, 968740, 208740, N7312252, 968739, 7312252



Image: Detailed specifications of the A-Premium Power Steering Pump, including material and included components.

WARRANTY AND SUPPORT

Warranty Information

A-Premium offers a one-year unlimited-mileage guarantee on this power steering pump. This warranty covers manufacturing defects and ensures the product meets quality standards for a period of 12 months from the date of purchase.

Customer Support

For further assistance, technical questions, or warranty claims, please contact A-Premium customer support. Refer to the product packaging or the official A-Premium website for contact details.

ADDITIONAL INFORMATION

Product Structure

The power steering pump consists of several key components working together to generate hydraulic pressure. These include the front casing, rear cover, cam ring, gasket, O-rings, thrust plate, rotor with vanes, and the end cover retaining ring.

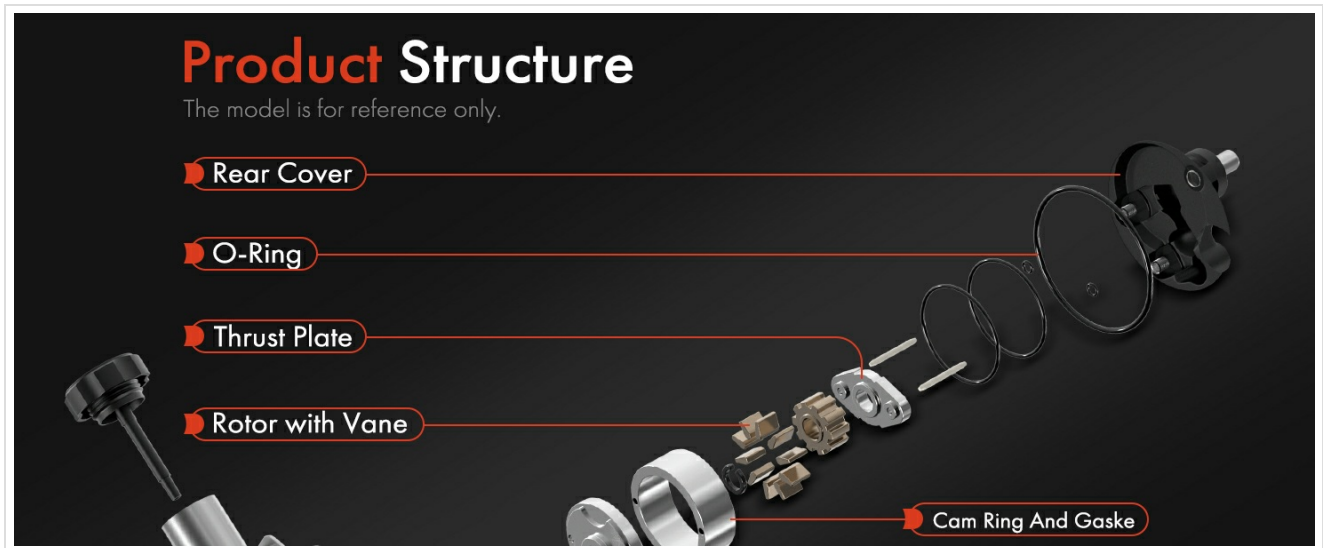


Image: Exploded view illustrating the internal components and structure of the power steering pump.

Quality and Design

The pump features advanced design elements for reliability and performance:

- **Oil Leakage Protection:** Multiple sealing components are integrated to prevent fluid leaks.
- **Anti-Corrosion Treatments:** The pump body undergoes treatments to resist corrosion, enhancing durability.
- **Premium Shaft and Vanes:** High-quality internal components ensure efficient and smooth operation.



Image: Visual representation of key design features such as oil leakage protection, anti-corrosion treatments, and premium internal components.

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Video: Overview of the A-Premium Power Steering Pump, highlighting its compatibility and features for various vehicle models.