ALPS AO-628

ALPS AO-628 Car Oil Filter Instruction Manual

Model: AO-628

1. Product Overview

The ALPS AO-628 oil filter is designed to maintain engine health by effectively filtering engine oil. It removes harmful impurities such as unburnt gases, moisture, and microscopic wear particles that accumulate during engine operation. This ensures clean oil circulates, protecting engine components and extending engine life. ALPS has over 50 years of expertise in filtration technology, providing high-quality, high-performance filters across various industries.



Image 1: ALPS AO-628 Oil Filter. This image shows the exterior of the ALPS AO-628 oil filter, highlighting its compact design and brand labeling.

2. Safety Information

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

- Ensure the engine is cool before starting any work to avoid burns from hot oil or engine components.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Use proper tools for the job. Refer to your vehicle's service manual for specific instructions and torque specifications.
- Dispose of used oil and oil filters responsibly according to local environmental regulations. Do not pour used oil down drains or onto the ground.
- Keep out of reach of children.

3. Compatibility

The ALPS AO-628 oil filter is designed for specific vehicle models. Verify compatibility with your vehicle before installation. This filter is primarily compatible with **Mazda** vehicles.



Image 2: Product packaging showing model number, OEM cross-reference, and compatible vehicle list. The UPC for this product is 4948266002498.

Main Compatible OEM Part Numbers:

- SH01-14-302A

- SHY1-14-302
- SHY2-14-302
- AY100-MA007
- 15208-HA00A
- 15208-HA00B

Main Compatible Vehicle Models (Mazda):

- **Axela** (2000cc/2200cc Diesel, from Oct 2003)
- **Atenza** (2000cc from Apr 2003, 2500cc from Sep 2010)
- **CX-3** (1500cc Diesel, from Feb 2015)
- **CX-5** (2200cc Diesel Turbo, from Feb 2012)
- **CX-7** (2300cc Turbo, from Jul 2009)
- **Demio** (1500cc Diesel Turbo, from Oct 2014)
- **Roadster** (NCEC, from Aug 2005)

4. Installation (Oil Filter Replacement)

This section provides general guidelines for replacing an oil filter. Always consult your vehicle's specific service manual for detailed instructions and safety precautions.

1. **Preparation:** Gather necessary tools (oil filter wrench, drain pan, new engine oil, new ALPS AO-628 oil filter, funnel, rags, safety glasses, gloves). Slightly warm up the engine to allow oil to drain more easily, then turn it off.
2. **Locate Components:** Identify the oil drain plug on the oil pan and the old oil filter.
3. **Drain Old Oil:** Place the drain pan beneath the oil drain plug. Carefully remove the drain plug and allow all the old engine oil to drain completely. Reinstall the drain plug with a new washer (if required) and tighten to the manufacturer's specified torque.
4. **Remove Old Filter:** Position the drain pan under the old oil filter. Use an oil filter wrench to loosen and remove the old filter. Be prepared for residual oil to spill.
5. **Prepare New Filter:** Apply a thin film of new engine oil to the rubber gasket of the new ALPS AO-628 oil filter. This ensures a proper seal and prevents the gasket from sticking.
6. **Install New Filter:** Hand-thread the new filter onto the engine until the gasket makes contact with the engine block. Then, tighten it an additional **3/4 to 1 full turn** by hand. Do not overtighten with a wrench, as this can damage the filter or engine block.
7. **Refill Engine Oil:** Using a funnel, add the recommended amount and type of new engine oil to your vehicle's engine. Refer to your vehicle's manual for the correct oil capacity.
8. **Check for Leaks:** Start the engine and let it run for a few minutes. Turn off the engine and check for any oil leaks around the new filter and drain plug.
9. **Verify Oil Level:** After a few minutes, check the engine oil level using the dipstick and add more oil if necessary.
10. **Dispose Responsibly:** Properly dispose of the old oil filter and used engine oil at an authorized recycling center.



Image 3: Bottom view of the ALPS AO-628 oil filter, showing the gasket and oil inlet holes. This view is important for proper installation and sealing.

5. Operating Principle

The ALPS AO-628 oil filter operates by continuously circulating engine oil through its pleated filtration media. As oil passes through the filter, microscopic particles, sludge, and other contaminants are trapped within the media, preventing them from recirculating through the engine. This ensures that only clean oil lubricates critical engine components, reducing friction and wear.

6. Maintenance

Regular replacement of your oil filter is crucial for engine longevity and performance. It is generally recommended to replace the oil filter every time you change your engine oil, or as specified by your vehicle manufacturer's maintenance schedule. A clogged or old filter can restrict oil flow, leading to inadequate lubrication and potential engine damage.

7. Troubleshooting

If you encounter issues after replacing your oil filter, consider the following:

- **Oil Leaks:**
  - Ensure the old gasket was completely removed from the engine block before installing the new filter.
  - Verify the new filter's gasket is properly seated and lubricated.
  - Check if the filter is tightened correctly (hand-tight plus 3/4 to 1 full turn). Overtightening or undertightening can cause leaks.
  - Inspect the oil drain plug for proper sealing and torque.
- **Incorrect Fit:**
  - Double-check that you have purchased the correct ALPS AO-628 model for your specific vehicle. Refer to the compatibility list in Section 3.
- **Low Oil Pressure Warning:**
  - Ensure the engine oil level is correct.
  - If the warning persists, stop the engine immediately and consult a qualified mechanic.

8. Specifications

Brand	ALPS ( )
Model Number	AO-628
Product Type	Engine Oil Filter Element
Height	94 mm
Outer Diameter	76 mm
Inner Diameter (Thread Size)	3/4" 16UNF
Main Compatible Manufacturer	Mazda
Country of Origin	Japan
OEM Equivalent Part Numbers	SH01-14-302A, SHY1-14-302, SHY2-14-302, AY100-MA007, 15208-HA00A, 15208-HA00B

9. Warranty Information

No specific warranty information is provided for this product. Please refer to the retailer or manufacturer's official website for any applicable warranty details.

10. Support

For further assistance, technical support, or inquiries regarding the ALPS AO-628 oil filter, please contact your product retailer or a qualified automotive mechanic. Always ensure that any work on your vehicle is performed by competent individuals.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question