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Breezliy O-Ring Fitting Adapter

Breezliy 10AN Male Flare to AN10 ORB Male O-Ring Fitting Adapter

Instruction Manual

Product Overview

The Breezliy 10AN Male Flare to AN10 ORB Male O-Ring Fitting Adapter is designed to provide a secure and leak-free connection in various automotive fluid systems. This adapter facilitates the connection between components with a 10AN male flare port and those with an AN10 ORB (O-Ring Boss) female port. Constructed from durable aluminum alloy with an anodized finish, it offers excellent strength, corrosion resistance, and a wide operating temperature range.



Image: Two 10AN Male Flare to AN10 ORB Male O-Ring Fitting Adapters with O-rings and Teflon tape.

Specifications

Refer to the table below for detailed specifications of the Breezliy 10AN Male Flare to AN10 ORB Male O-Ring Fitting Adapter.

Fitting Type	10AN ORB to 10AN
Material	Aluminum Alloy
Max Pressure	1500PSI
Working Temp Range	-65°F-252°F
Package	2PCS +1PC Teflon Tape



Image: Key specifications of the fitting adapter.

Product Specifications

Attribute	Value
Fitting Type	10AN Male Flare to AN10 ORB Male
Material	Aluminum Alloy Body, NBR Rubber O-ring
Max Working Pressure	1500 PSI
Working Temperature Range	-65°F to 252°F (-53°C to 122°C)
O-ring Temperature Range	-4°F to 392°F (-20°C to 200°C)
Thread Size	10AN (7/8-14 UNF)

Attribute	Value
Color	Black (Anodized Finish)
Package Contents	2 x Fitting Adapters, 1 x Teflon Tape
Dimensions (L x W x H)	5 x 3.9 x 0.5 inches (approx.)
Item Weight	1.76 ounces (approx.)

Package Contents

Your package should contain the following items:

- 2 x 10AN Male Flare to AN10 ORB Male O-Ring Fitting Adapters
- 2 x NBR Rubber O-rings (pre-installed or separate)
- 1 x Roll of Teflon Tape



Image: All components included in the package.

Installation Guide

Proper installation is crucial for a leak-free connection. Follow these steps carefully:

1. **Preparation:** Ensure both the 10AN male flare port and the AN10 ORB female port are clean and free of debris. Inspect the O-ring for any damage or deformities.
2. **O-Ring Installation (ORB Side):** The AN10 ORB side of the fitting is sealed by an O-ring. Ensure the NBR rubber O-ring is properly seated in the groove on the ORB end of the adapter. A thin layer of compatible lubricant (e.g., assembly lube or the fluid being transferred) can be applied to the O-ring to aid installation and prevent pinching.
3. **AN Flare Connection:** The 10AN side of the fitting is a male flare, designed to seal against a 37-degree female flare. Align the male flare end of the adapter with the corresponding female flare port. Hand-tighten the connection to ensure proper thread engagement.
4. **Tightening:** Using an appropriate wrench, carefully tighten both connections. For the AN10 ORB side, tighten until the O-ring is compressed and a secure seal is achieved. Avoid over-tightening, which can damage the O-ring or threads. For the 10AN flare side, tighten until the flare surfaces are firmly seated. The included Teflon tape can be used on the AN threads if additional sealing is desired, though the flare itself provides the primary seal.
5. **Leak Check:** After installation, pressurize the system (if applicable) and carefully inspect all connections for any signs of leaks. Address any leaks immediately by re-tightening or re-installing the fitting.



Image: Components of the fitting, highlighting the O-ring and aluminum body.



Image: Detailed view of the fitting threads and size designation.

Operation and Function

Once properly installed, the Breezliy 10AN Male Flare to AN10 ORB Male O-Ring Fitting Adapter functions as a reliable connector between two different types of fluid ports. It is designed to maintain system integrity under specified pressure and temperature conditions, ensuring efficient fluid transfer without leakage.

Typical Applications:

- Fuel rail connections
- Oil cooler lines
- Fuel pump installations
- Fuel pressure regulator setups
- Fuel filter systems
- Other automotive fluid transfer applications requiring AN flare to ORB connections

Care and Maintenance

To ensure the longevity and continued performance of your fitting adapters, consider the following maintenance tips:

- **Regular Inspection:** Periodically inspect the fittings and connections for any signs of wear, corrosion, or damage. Pay close attention to the O-rings for cracking or flattening.
- **Leak Checks:** Regularly check for any signs of fluid leaks around the connections, especially after any system modifications or extreme temperature changes.
- **Cleaning:** If necessary, clean the exterior of the fittings with a mild degreaser and a soft cloth. Avoid abrasive cleaners or tools that could damage the anodized finish.
- **O-Ring Replacement:** If an O-ring shows signs of wear or leakage persists, replace it with a new NBR rubber O-ring of the correct size and material.

Troubleshooting

Most issues with fitting adapters relate to leaks. Here are common problems and their solutions:

Problem	Possible Cause	Solution
Fluid Leak at ORB connection	Damaged or improperly seated O-ring; insufficient tightening.	Inspect O-ring for damage and replace if necessary. Ensure O-ring is properly seated. Re-tighten connection to specified torque.
Fluid Leak at AN Flare connection	Damaged flare surface; insufficient tightening; incorrect flare angle.	Inspect flare surfaces for nicks or damage. Re-tighten connection. Ensure mating components have a 37-degree flare. Consider using Teflon tape on threads if not already used.
Fitting feels loose after installation	Insufficient tightening; vibration.	Re-tighten connections. Consider using thread locker on the AN threads if vibration is a significant factor (ensure compatibility with fluid).

Warranty and Support

For any questions regarding the Breezliy 10AN Male Flare to AN10 ORB Male O-Ring Fitting Adapter, including warranty information or technical support, please contact the seller or manufacturer directly through the platform where the product was purchased. Keep your purchase receipt or order details handy for faster assistance.

For more information about Breezliy products, you may visit the official Breezliy brand page or contact their customer service.

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