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EVIL ENERGY FBA-KT00467BB

EVIL ENERGY 6AN PTFE Fuel Line Kit Instruction Manual

1. PRODUCT OVERVIEW

The EVIL ENERGY 6AN PTFE Fuel Line Kit provides a durable and high-performance solution for automotive fuel systems. This kit includes a 16-foot (5/16 inch ID) nylon braided PTFE fuel hose designed for compatibility with various automotive fuels, lubricants, and coolants, including E85. It is engineered to withstand high pressure and a wide range of temperatures, making it suitable for demanding applications.



Figure 1: Overview of the EVIL ENERGY 6AN PTFE Fuel Line Kit.

Key Features:

- **Size:** PTFE fuel 6AN hose with 5/16" (0.31 inch) inner diameter and 0.45 inch outer diameter. Total length is 16 feet.
- **Performance:** Designed for a working temperature range of -76°F to 446°F (-60°C to 230°C). Maximum working pressure is 1,500 PSI, with a bursting pressure of 4,500 PSI.
- **Compatibility:** Compatible with all automotive fuels, lubricants, and coolants, including E85.
- **Construction:** Features a 3-layer design for durability and resistance to corrosion and abrasion.

3-Layer Construction

High-density fuel hose is built to last

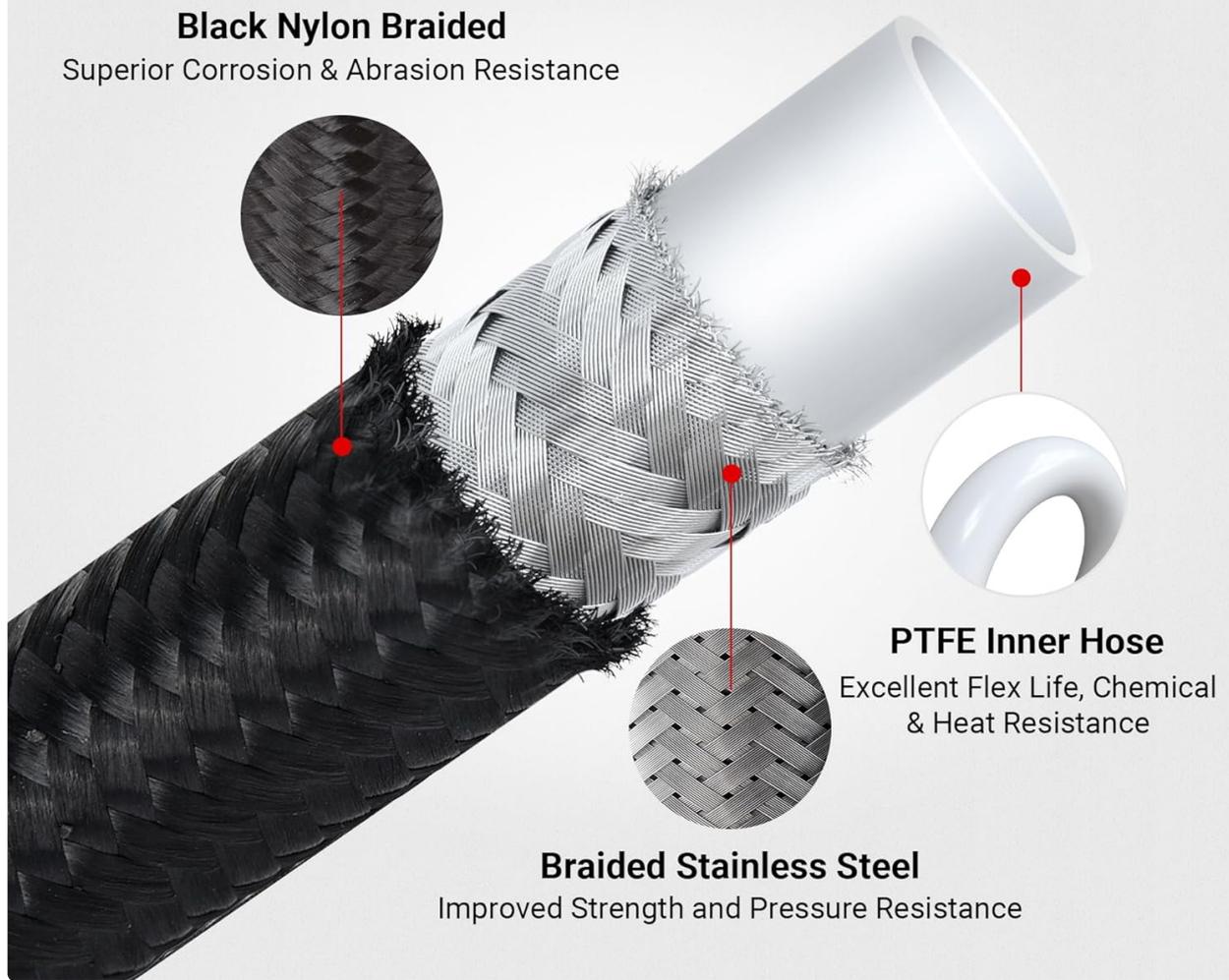


Figure 2: Detailed view of the 3-layer construction, including PTFE inner hose, braided stainless steel, and black nylon braided outer layer.

Product Size

Please measure before purchase!



6AN

ID: 0.31" (8mm)

OD: 0.45" (11.5mm)

16FT

ID Tolerance: ± 0.0197 " (0.5mm)

OD Tolerance: ± 0.0197 " (0.5mm)

Figure 3: Visual representation of the 6AN hose dimensions: ID 0.31" (8mm), OD 0.45" (11.5mm), and 16FT length.

Product Parameter



6AN



Working Pressure
1500psi



Burst Pressure
4500psi



Temperature Range
-76°F to 446°F

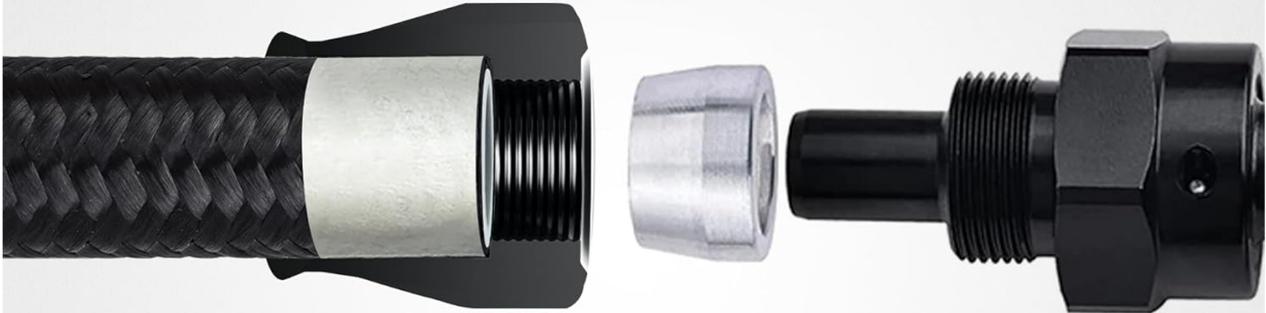


Minimum Bend Radius
3.5inch(88.9mm)

Figure 4: Key performance parameters: Working Pressure 1500psi, Burst Pressure 4500psi, Temperature Range -76°F to 446°F, Minimum Bend Radius 3.5 inches (88.9mm).

Support Multiple Fluid Types

Suitable for gasoline, ethanol, fuel, petroleum, diesel, coolant, and more



E85



E15



Antifreeze



Lubricants

Recommended to use with EVIL ENERGY PTFE hose end(NOT Included)

Figure 5: The fuel line supports multiple fluid types, including E85, E15, Antifreeze, and Lubricants.

Widely Applicable for Vehicles

Ideal for fuel delivery, fuel injection
and forced induction systems



Figure 6: The fuel line is widely applicable for vehicles, ideal for fuel delivery, fuel injection, and forced induction systems.

2. SPECIFICATIONS

Attribute	Value
Brand	EVIL ENERGY
Material	Nylon, Polytetra (PTFE), Stainless Steel
Color	Black
Product Dimensions	192"L x 0.47"W (16 Feet Length)
Item Weight	2.5 Pounds
Maximum Working Pressure	1,500 PSI
Bursting Pressure	4,500 PSI
Nominal Wall Thickness	0.0225 inches

Attribute	Value
Outside Diameter	0.47 Inches
Item Length	16 Feet
UPC	631145964515
Model Number	FBA-KT00467BB

EVIL ENERGY PTFE Fuel Hose Specifications

Hose Size	Actual Hose ID	Equivalent Tube Size (Nominal OD)	Applicable
4AN	0.19"	1/4"	4AN PTFE fitting
6AN	0.31"	3/8"	6AN PTFE fitting
8AN	0.39"	1/2"	8AN PTFE fitting
10AN	0.52"	5/8"	10AN PTFE fitting

When material varies, the hose ID is not equivalent to the nominal tubing OD. Please refer to the actual hose ID or applicable fittings.

Figure 7: Detailed specifications for EVIL ENERGY PTFE Fuel Hoses, including hose size, actual ID, equivalent tube size, and applicable fittings.

3. SETUP AND INSTALLATION

Professional installation is highly recommended for this PTFE fuel line kit. Proper installation is crucial for safety and optimal performance. The hose is relatively rigid and cannot be bent or folded sharply. Always ensure a minimum bend radius of 3.5 inches (88.9mm).

General Installation Guidelines:

- Preparation:** Before cutting, use electrical tape around the hose at the desired cut point to prevent fraying of the nylon braid.
- Cutting:** Use a sharp tool, such as a cut-off wheel, to make a clean cut. Avoid using scissors or pliers that may deform the hose or fray the braid.
- Hose Recovery:** After cutting, the PTFE hose may deform. Use a specialized tool to recover the cut end to its original shape before installing fittings. Ensure no braided wire is caught between the hose and the ferrule during assembly.
- Fitting Assembly:** Lubricate the PTFE hose and fitting threads. Insert the PTFE hose into the fitting socket. Turn the hose clockwise into the socket until it bottoms out. Then, insert the nipple into the hose and push it through the socket while turning the nipple clockwise. Ensure the nipple threads engage properly with the socket threads. Tighten securely.
- Inspection:** After assembly, thoroughly inspect all connections for any signs of leaks or improper seating.

Note

PTFE hose may be deformed after cutting
Please use a tool to recover the cut end before installation



Figure 8: Note on PTFE hose deformation after cutting and the use of a tool to recover the cut end before installation.

Installation Videos:

How to Install PTFE Fuel Line

Video 1: A detailed guide on the proper steps for installing PTFE fuel lines and fittings.

PTFE Fuel Lines and AN Fittings Kit Overview

Video 2: An overview of the PTFE fuel lines and AN fittings kit, highlighting key features and components.

EVIL ENERGY Nylon Braided PTFE Fuel Hose Kit 16FT

Video 3: A visual demonstration of the EVIL ENERGY Nylon Braided PTFE Fuel Hose Kit, including its components and general handling.

Application

Ideal for high pressure and high temperature applications



Figure 9: Example of the fuel line installed in an automotive application.

4. OPERATING

Once properly installed, the EVIL ENERGY 6AN PTFE Fuel Line Kit operates as a critical component in your vehicle's fuel, lubricant, or coolant system. It is designed for continuous operation within its specified pressure and temperature ranges. Regular checks of the system are recommended to ensure continued integrity.

5. MAINTENANCE

To ensure the longevity and reliable performance of your EVIL ENERGY PTFE Fuel Line Kit, consider the following maintenance practices:

- **Regular Inspection:** Periodically inspect the entire fuel line system for any signs of wear, abrasion, cuts, or leaks. Pay close attention to connection points and areas where the hose may rub against other components.
- **Cleaning:** Keep the exterior of the hose clean from dirt, debris, and corrosive substances. Use appropriate automotive cleaning products.
- **Avoid Excessive Bending:** Ensure the hose maintains its minimum bend radius during operation and storage to prevent internal damage.
- **Check Fittings:** Verify that all AN fittings remain tight and secure. Overtightening can damage threads, while undertightening can lead to leaks.

6. TROUBLESHOOTING

If you encounter issues with your EVIL ENERGY 6AN PTFE Fuel Line Kit, refer to the following common problems and solutions:

Common Issues:

- **Leaks at Fittings:**
 - *Cause:* Improper assembly, braided wire caught in the ferrule, or insufficient tightening.
 - *Solution:* Disassemble the fitting, ensure no braided wires are between the hose and ferrule, lubricate threads, and reassemble carefully, ensuring the hose is fully seated and the fitting is tightened correctly.
- **Hose Bursting/Damage:**
 - *Cause:* Exceeding maximum pressure, excessive bending, or external abrasion.
 - *Solution:* Verify system pressure is within the hose's limits. Ensure the hose is routed to avoid sharp bends and contact with abrasive surfaces. Replace damaged sections immediately.
- **Hose Appears Undersized:**
 - *Cause:* Misunderstanding of AN sizing conventions or incorrect product selection.
 - *Solution:* Always refer to the actual inner diameter (ID) and outer diameter (OD) specifications provided in the product details and compare them to your application requirements. The 6AN hose has an ID of 5/16" (0.31 inch).

7. WARRANTY AND SUPPORT

For warranty information or technical support regarding your EVIL ENERGY 6AN PTFE Fuel Line Kit, please refer to the documentation included with your purchase or contact EVIL ENERGY customer service directly. Keep your proof of purchase for any warranty claims.