

Vibrant Performance 28508

Vibrant Performance 28508 PTFE Hose End Fitting Instruction Manual

Full Flow, 150 Degree, Reusable -8AN Fitting

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1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of the Vibrant Performance 28508 Full Flow PTFE 150 Degree Reusable -8AN Hose End Fitting. This fitting is designed for use with Vibrant 18000 series PTFE Lined Flex Hoses in high-performance automotive applications. Adherence to these instructions is crucial for ensuring optimal performance, safety, and longevity of the product.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment, including eye protection and gloves, when handling automotive fluids and components.
- Ensure the vehicle's engine is off and cooled down before beginning any installation or maintenance. Disconnect the battery if necessary.
- Work in a well-ventilated area.
- Automotive systems can be under pressure. Relieve pressure from fuel or oil systems before disconnecting any lines.
- Improper installation can lead to leaks, component failure, and potential hazards. If you are unsure about any step, consult a qualified automotive technician.

- This product is intended for use with Vibrant 18000 series PTFE Lined Flex Hoses only. Do not use with other hose types unless explicitly stated by the manufacturer.
- Refer to all applicable vehicle service manuals for specific procedures related to your vehicle.

3. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged. The package for the Vibrant Performance 28508 fitting should contain:

- 1x Vibrant Performance 28508 -8AN PTFE Hose End Fitting (consisting of a socket, nipple, and olive/insert)



Image 3.1: Exploded view of the Vibrant Performance 28508 PTFE hose end fitting, showing the socket, nipple, and olive/insert.

4. INSTALLATION INSTRUCTIONS

4.1 Tools Required

- Vibrant 18000 series PTFE Lined Flex Hose
- Hose cutter (specifically designed for PTFE hose)
- Vise with soft jaws
- Adjustable wrench or AN wrench set (appropriate size for -8AN)
- Assembly lube or clean engine oil
- Clean rag

4.2 Preparation

1. Measure and cut the PTFE hose to the desired length using a specialized PTFE hose cutter to ensure a clean, square cut. A clean cut is critical for proper sealing.
2. Inspect the cut end of the hose for any frayed PTFE liner or wire braiding. Trim if necessary.
3. Ensure the fitting components (socket, nipple, olive/insert) are clean and free of debris.

4.3 Assembly Steps

- 1. Step 1: Install the Socket**
Thread the hose socket (the outer nut) onto the PTFE hose counter-clockwise. Ensure the hose passes through the socket until the end of the hose is flush with the end of the socket. Do not force it; it should thread on smoothly.
- 2. Step 2: Prepare the Nipple and Olive**
Apply a small amount of assembly lube or clean engine oil to the threads of the nipple and the olive/insert. This aids in smooth assembly and prevents galling.
- 3. Step 3: Insert the Nipple into the Hose**
Place the hose (with the socket installed) into a vise equipped with soft jaws to prevent damage. Insert the nipple (the inner part with the tapered end) into the PTFE hose. The olive/insert should be positioned between the nipple and the hose liner. Ensure the tapered end of the nipple aligns correctly with the PTFE liner.

4. Step 4: Thread the Nipple into the Socket

While holding the nipple firmly, begin threading the socket onto the nipple clockwise. This action will compress the olive/insert, creating a seal between the hose and the fitting.

5. Step 5: Tighten the Fitting

Using an AN wrench or adjustable wrench, tighten the fitting until the socket is fully seated against the nipple. A slight gap (approximately 1/32" to 1/16") between the socket and the nipple hex is normal for PTFE fittings. Do not overtighten, as this can damage the fitting or hose. Refer to manufacturer's torque specifications if available for your specific application.



Image 4.1: Step-by-step diagram illustrating the assembly process of the Vibrant Performance 28508 fitting with a PTFE hose.



Image 4.2: A fully assembled Vibrant Performance 28508 PTFE hose end fitting, ready for installation into a system.

5. OPERATION AND POST-INSTALLATION CHECKS

After installing the hose assembly with the Vibrant Performance 28508 fittings, perform the following checks before operating the vehicle:

- **Visual Inspection:** Ensure all fittings are securely tightened and that the hose is routed away from hot components, sharp edges, and moving parts.
- **Leak Test:** For fluid systems, pressurize the system (if safe to do so) and carefully inspect all connections for any signs of leaks. Use a leak detection spray for air/vacuum systems.
- **Functionality Check:** Verify that the system operates as intended without any abnormal noises or behaviors.
- **Re-check Torque:** After initial use and a few heat cycles, it is recommended to re-check the tightness of the fittings to ensure they remain secure.

6. MAINTENANCE

The Vibrant Performance 28508 fitting is designed for durability and reusability. Regular maintenance involves:

- **Periodic Inspection:** Regularly inspect the hose and fittings for any signs of wear, abrasion, cracks, or leaks. Pay close attention to areas where the hose connects to the fitting.
- **Cleaning:** Keep fittings clean from dirt and debris. Use a mild cleaner if necessary, avoiding harsh chemicals that could damage the finish or material.
- **Reusability:** When disassembling for reuse, carefully inspect the nipple, socket, and especially the olive/insert for any damage or deformation. Replace the olive/insert if it shows signs of wear or if a perfect seal cannot be achieved.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Leak at fitting connection	◦ Fitting not tightened sufficiently. ◦ Hose not cut square or clean. ◦ Damaged PTFE liner or olive/insert. ◦ Incorrect hose type used. ◦ Cross-threaded during assembly.	◦ Tighten fitting slightly (do not overtighten). ◦ Disassemble, re-cut hose, and reassemble. ◦ Disassemble, inspect, and replace damaged components. ◦ Ensure use of Vibrant 18000 series PTFE hose. ◦ Replace fitting if threads are damaged.
Difficulty threading socket onto nipple	◦ No assembly lube used. ◦ Hose not properly seated in socket. ◦ Cross-threading.	◦ Apply assembly lube to nipple threads. ◦ Ensure hose is fully inserted into the socket. ◦ Back off, realign, and try again. Do not force.

8. SPECIFICATIONS

Feature	Detail
Model Number	28508
Fitting Type	Hose End, Full Flow, Reusable
Angle	150 Degree
Hose Size Compatibility	-8AN (for Vibrant 18000 series PTFE Lined Flex Hose)
Thread Type	-8AN Female Thread
Material	Aluminum
Finish	Black Anodized
Dimensions (L x W x H)	Approximately 3 x 2.5 x 1.5 inches
Item Weight	Approximately 1 pound (16 ounces)
UPC	690092171681

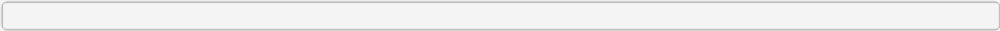


Image 8.1: Technical drawing showing the approximate dimensions of the Vibrant Performance 28508 fitting.

9. WARRANTY AND SUPPORT

Vibrant Performance products are manufactured to high standards. For specific warranty information, please refer to the official Vibrant Performance website or contact their customer support directly. Keep your proof of purchase for any warranty claims.

For technical assistance or support, please visit the [Vibrant Performance Support Page](#) or contact their customer service department.

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