

Edelbrock 614206

Edelbrock/Russell 614206 Blue Anodized Aluminum Straight Female -6AN to Male 1/4" NPT Adapter Fitting User Manual

Model: 614206 | Brand: Edelbrock

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Edelbrock/Russell 614206 Blue Anodized Aluminum Straight Female -6AN to Male 1/4" NPT Adapter Fitting. Please read this manual thoroughly before use to ensure safe and effective application.

The Edelbrock/Russell Straight AN Female to Male NPT Adapter Fitting is designed to facilitate the connection of hose ends to various components within a fluid system. Its construction ensures a reliable, leak-free seal under operating pressures.

Key Features:

- Allows for the connection of hose ends to almost any component.
- Size is -6 AN to 1/4 NPT.
- Straight AN Female to Male NPT configuration.
- Constructed from durable aluminum with a blue anodized finish.
- Features a 37-degree angled sealing surface for a positive anti-leak seal.

2. SAFETY INFORMATION

WARNING: Always wear appropriate personal protective equipment (PPE) such as safety glasses and gloves when handling and installing automotive components. Ensure the vehicle's system is depressurized and cooled before working on any fluid lines.



Image Description: A yellow triangle warning symbol followed by bold text stating: "WARNING: THIS PRODUCT CAN EXPOSE YOU TO CHEMICALS WHICH ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. FOR MORE INFORMATION, VISIT WWW.P65WARNINGS.CA.GOV." This is a standard California Proposition 65 warning label.

Proposition 65 Warning: This product can expose you to chemicals which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

Ensure all connections are secure and free from leaks before operating the vehicle. Improper installation can lead to fluid leaks, fire hazards, or other serious injuries.

3. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged. The package should contain:

- 1x Edelbrock/Russell 614206 Straight AN Female to Male NPT Adapter Fitting

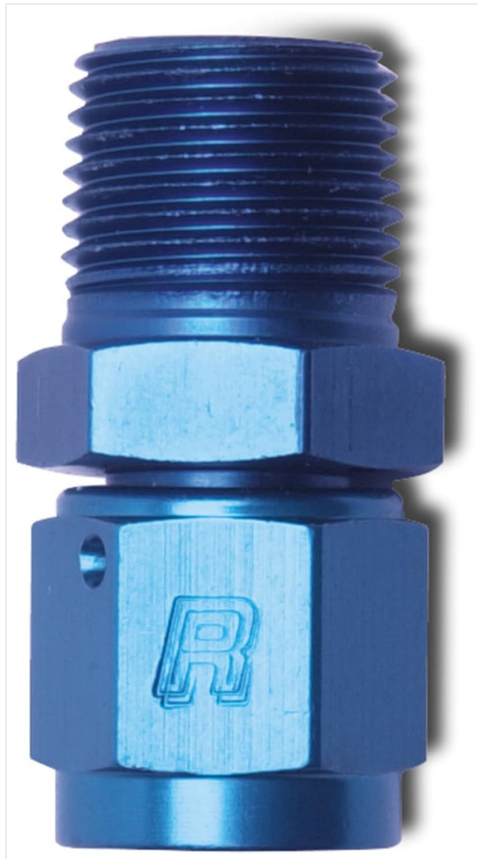


Image Description: A close-up view of the Edelbrock/Russell 614206 adapter fitting. The fitting is blue anodized aluminum, showing the female AN end at the bottom with the "R" logo, and the male NPT threaded end at the top. The hexagonal wrench flats are visible in the middle.

4. SETUP AND INSTALLATION

This adapter fitting is designed for use in automotive fluid systems, typically fuel, oil, or coolant lines. Proper installation is critical for performance and safety.

Installation Steps:

1. **Preparation:** Ensure the system is de-pressurized and cool. Clean the mating surfaces of both the hose end and the component where the NPT thread will connect. Remove any debris or old sealant.
2. **NPT Connection:** Apply a suitable thread sealant (e.g., PTFE tape or liquid thread sealant compatible with the fluid) to the male 1/4" NPT threads of the adapter fitting. Carefully thread the NPT end into the component's female NPT port. Tighten securely using an appropriate wrench, but do not overtighten, as this can damage the threads or the component.
3. **AN Connection:** Connect the female -6AN hose end to the male -6AN side of the adapter fitting. Ensure the 37-degree flare surfaces align perfectly. Hand-tighten the AN connection first, then use an AN wrench to tighten it to the manufacturer's recommended torque specifications for AN fittings. Avoid using standard open-end wrenches, which

can damage the anodized finish and the fitting.

- 4. **Inspection:** After installation, visually inspect all connections for proper seating and alignment.
- 5. **Leak Test:** Once the system is re-pressurized, carefully check for any signs of leaks around the installed fitting. Address any leaks immediately before operating the vehicle.

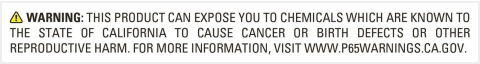


Image Description: A side view of the Edelbrock/Russell 614206 adapter fitting, highlighting the blue anodized finish and the distinct hexagonal shapes for wrenching. This view clearly shows the transition from the AN side to the NPT side.

5. OPERATING PRINCIPLES

The Edelbrock/Russell 614206 adapter fitting serves as a crucial interface between two different thread standards: AN (Army-Navy) and NPT (National Pipe Taper). AN fittings are commonly used in high-performance automotive and aerospace applications due to their reliable sealing capabilities and ease of assembly/disassembly. NPT threads are a common standard for general-purpose piping.

The 37-degree flare on the AN side creates a metal-to-metal seal when compressed, ensuring a positive, leak-free connection for fluid transfer. The NPT side relies on tapered threads and a thread sealant to create a pressure-tight seal.

6. MAINTENANCE

This adapter fitting is designed for durability and requires minimal maintenance. However, periodic inspection is recommended to ensure continued performance and safety.

- **Visual Inspection:** Regularly check the fitting for any signs of corrosion, damage, or leaks. The blue anodized finish helps protect the aluminum, but harsh chemicals or abrasion can compromise it.
- **Cleaning:** If cleaning is necessary, use a soft cloth and a mild, non-abrasive cleaner. Avoid harsh solvents or abrasive materials that could damage the anodized finish or the threads.
- **Re-tightening:** If any looseness or minor weeping is observed, carefully re-tighten the connections to the appropriate torque specifications. Do not overtighten.

7. TROUBLESHOOTING

Most issues related to adapter fittings stem from improper installation. Refer to the "Setup and Installation" section for detailed steps.

Problem	Possible Cause	Solution
Fluid Leak at NPT Connection	Insufficient thread sealant; damaged threads; undertightened.	Disassemble, clean threads, reapply thread sealant, and re-tighten to proper torque. Inspect threads for damage.
Fluid Leak at AN Connection	Improperly seated flare; damaged flare surface; undertightened.	Disassemble, inspect flare surfaces for damage or debris. Ensure proper alignment and re-tighten to AN torque specifications.
Fitting feels loose after installation	Undertightened connections.	Carefully re-tighten both NPT and AN connections to their respective torque specifications.

8. SPECIFICATIONS

Attribute	Detail
Model Number	614206
Brand	Edelbrock/Russell
Material	Aluminum
Color	Blue Anodized
Connector Type	Adapter
Thread Size (AN)	-6AN Female
Thread Size (NPT)	1/4" NPT Male
Thread Type	AN (37-degree flare) to NPT (Tapered Pipe Thread)
Item Weight	0.8 ounces (approx. 22.68 g)
Number of Pieces	1

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Edelbrock/Russell 614206 adapter fitting, please refer to the documentation provided with your purchase or visit the official Edelbrock website. Warranty terms and conditions may vary.

If you require technical assistance or have questions not covered in this manual, please contact Edelbrock customer support directly. You can often find contact information on the manufacturer's official website or through their Amazon brand store:

[Visit the Edelbrock Store on Amazon](#)

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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

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Email

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

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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