

OTC 6604

OTC 6604 Transmission Fluid Fill Adapter Instruction Manual

For 5R55W Automatic Transmissions

1. INTRODUCTION

The OTC 6604 Transmission Fluid Fill Adapter is a specialized tool designed to facilitate the filling or adding of transmission fluid to Ford 5R55W automatic transmissions. This adapter ensures a secure connection to the transmission's fill port, preventing leaks and spills during the fluid service process. Proper use of this tool is essential for maintaining the correct fluid level and ensuring the longevity of your vehicle's transmission.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when working with automotive fluids.
- Ensure the vehicle is parked on a level surface and properly supported with jack stands before beginning any work underneath.
- Allow the transmission to cool down before servicing to avoid burns from hot fluid or components.
- Refer to your vehicle's service manual for specific transmission fluid type, capacity, and temperature requirements.
- Dispose of used transmission fluid and related materials according to local environmental regulations.

3. PRODUCT OVERVIEW

The OTC 6604 Transmission Fluid Fill Adapter is a compact, durable component designed for precision. It features a threaded end for secure attachment to the transmission fill port and a hose barb end for connecting to a fluid pump or dispenser.



Figure 1: The OTC 6604 Transmission Fluid Fill Adapter. This image shows the black metal adapter with a threaded end for connecting to the transmission and a barb end for a fluid hose.

Key Features:

- **Model:** 6604
- **Material:** High-quality metal for durability and resistance to automotive fluids.
- **Thread Size:** 1/4 inch UNF (Unified National Fine) thread.
- **Compatibility:** Specifically designed for Ford 5R55W automatic transmissions.
- **Dimensions:** Approximately 4.7 x 6.8 x 1.3 inches.

4. SETUP

Before using the adapter, ensure you have the necessary tools and materials:

- Transmission fluid pump (manual or electric)
- Appropriate transmission fluid (e.g., Valvoline MaxLife Multi-Vehicle ATF, if compatible with your vehicle's specifications)
- Drain pan
- Torque wrench
- Vehicle service manual

Connection Steps:

1. Locate the transmission fluid fill port on your Ford 5R55W automatic transmission. This is typically found on the side or bottom of the transmission pan.
2. Remove the existing fill plug. Be prepared for some fluid to drain out.
3. Thread the OTC 6604 adapter into the transmission fill port. Hand-tighten first, then use a wrench to ensure a snug, leak-free connection. Do not overtighten.
4. Connect the hose from your transmission fluid pump to the barb end of the OTC 6604 adapter. Ensure the hose is securely attached to prevent dislodgement during pumping.

5. OPERATING INSTRUCTIONS

Follow these steps to properly fill or add fluid to your transmission:

1. With the adapter and pump connected, begin pumping new transmission fluid into the transmission.
2. Monitor the fluid level according to your vehicle's service manual. Many modern transmissions require fluid level checks at a specific operating temperature.
3. Once the fluid begins to drip steadily from the fill port (or reaches the specified level), stop pumping.
4. Disconnect the fluid pump hose from the adapter.
5. Carefully unthread and remove the OTC 6604 adapter from the transmission fill port.
6. Reinstall the original transmission fill plug, tightening it to the torque specification provided in your vehicle's service manual.
7. Clean up any spilled fluid immediately.

Helpful Videos:

Transmission Fluid Fill Adapter Overview

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This video provides a general overview of a transmission fluid fill adapter, demonstrating its physical characteristics and basic function. It highlights the adapter's design for connecting to a fluid pump and a transmission fill port.

5R55W Transmission Fluid Fill Adapter Demonstration

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This video specifically demonstrates the use of a 5R55W transmission fluid fill adapter, showing how it connects to the transmission for fluid addition. It provides visual guidance for users working with this specific transmission type.

Transmission Oil Fill Adapter Features

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This video showcases the features and construction of a transmission oil fill adapter, emphasizing its quality materials and design for reliable fluid transfer. It highlights aspects like precision threads and durable construction.

Transmission Fluid ATF Fill Adapter in Use

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This video illustrates the practical application of a transmission fluid ATF fill adapter, demonstrating how it is used to add fluid to a vehicle's transmission. It provides a visual guide to the filling process.

Transmission Fluid Fill Adapter Product Details

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This video offers a detailed look at a transmission fluid fill adapter, showcasing its construction and highlighting its suitability for specific automatic gearboxes like the 5R55W. It emphasizes the quality of the metal used.

Wire Harness Pigtail Repair Kit for Ford Shift Solenoid 5R55S

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While not directly about the fluid fill adapter, this video demonstrates a wire harness pigtail repair kit for Ford 5R55S transmissions, which are closely related to the 5R55W. It may be useful for users performing broader transmission maintenance.

6. MAINTENANCE

To ensure the longevity and proper function of your OTC 6604 adapter:

- After each use, clean the adapter thoroughly to remove any residual transmission fluid.
- Inspect the threads and barb for any signs of wear, damage, or corrosion.
- Store the adapter in a clean, dry place to prevent rust and damage.

7. TROUBLESHOOTING

Common Issues:

- **Leaking at the transmission connection:** Ensure the adapter is fully threaded and tightened appropriately. Check for any debris or damage to the transmission's fill port threads or the adapter's threads.
- **Hose not fitting securely:** Verify that the hose from your fluid pump is the correct diameter for the adapter's barb. Use a hose clamp if necessary to secure the connection.
- **Adapter not threading into transmission:** Confirm that the transmission is indeed a Ford 5R55W model. While the 6604 is designed for this, some Ford models or other vehicles may have different thread sizes. Refer to your vehicle's service manual for exact specifications.

8. SPECIFICATIONS

Feature	Specification
Brand	OTC
Model Number	6604
Product Type	Auto Accessory (Transmission Fluid Fill Adapter)
Compatibility	Ford 5R55W Automatic Transmissions
Material	Metal
Color	Black

Thread Size	1/4 inch
Thread Type	UNF
Item Dimensions (L x W x H)	4.7 x 6.8 x 1.3 inches
Item Weight	0.035 ounces (approx. 1 gram)
Number of Pieces	1

9. WARRANTY AND SUPPORT

OTC products are manufactured to high standards and are backed by a commitment to quality. For specific warranty information regarding your OTC 6604 Transmission Fluid Fill Adapter, please refer to the documentation included with your purchase or visit the official OTC website. For technical assistance, troubleshooting, or parts inquiries, please contact OTC customer support through their official channels.

Manufacturer: OTC

Website: [Visit the OTC Store on Amazon](#)