

- Manuals.plus /
- › ePathChina /
 - › ePathChina Transmission Oil Filling Tool for Mercedes Benz 725.0 9-Speed Transmission - Instruction Manual

ePathChina EPC_CRT_902

ePathChina Transmission Oil Filling Tool Instruction Manual

For Mercedes Benz 725.0 (9G-Tronic) 9-Speed Transmission

1. PRODUCT OVERVIEW

This ePathChina Transmission Oil Filling Tool kit is designed for the specific requirements of Mercedes Benz 725.0 (9G-Tronic) 9-speed automatic transmissions. It facilitates the processes of filling, draining, and checking the fluid level in the transmission.

The tools are constructed from reinforced nylon, offering high hardness, rust resistance, and corrosion resistance for long-lasting durability. This kit replaces original equipment part numbers W725589009000 and W725589029000.



Figure 1: Complete ePathChina Transmission Oil Filling Tool Kit.

2. PACKAGE CONTENTS

The package includes the following components:

- 1 x Fuel Filler Joint
- 1 x 8mm Oil Pan Screw Wrench
- 1 x Oil Drain Wrench (Multi-function key)
- 1 x ATF109 Filling Adapter



Figure 2: Individual components of the tool kit with approximate dimensions.

3. SAFETY INFORMATION

Always prioritize safety when working with automotive systems. Failure to follow safety precautions can result in injury or damage to the vehicle.

- Ensure the vehicle is securely supported on a level surface using appropriate jack stands before working underneath.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Allow the transmission fluid to cool before handling to prevent burns.
- Dispose of used transmission fluid responsibly according to local regulations.
- Refer to the vehicle manufacturer's service manual for specific transmission fluid change procedures and

specifications.

4. PRODUCT COMPONENTS IN DETAIL

4.1. Fuel Filler Joint and ATF109 Filling Adapter

These components connect to the transmission's fill port, allowing for controlled fluid addition. The ATF109 adapter is designed for compatibility with the 725.0 transmission.



Figure 3: Fuel Filler Joint (top) and ATF109 Filling Adapter (bottom) in separated state.



Figure 4: Fuel Filler Joint and ATF109 Filling Adapter assembled for use.

4.2. 8mm Oil Pan Screw Wrench

This wrench is used for the removal and installation of the 8mm oil pan screw, which typically secures the transmission fluid pan.



Figure 5: The 8mm Oil Pan Screw Wrench.

4.3. Oil Drain Wrench (Multi-function key)

This specialized wrench is designed to manipulate the internal valve of the transmission drain plug, controlling fluid flow for draining, level checking, and closing the system.



Figure 6: The Oil Drain Wrench, also referred to as the multi-function key.



Position 1: Install and remove Component C

Position 2: Drain a small amount of liquid

Position 3: Level check

Position 4: Drain the oil(Full flow)

Position of multi-function drain wrench C

Figure 7: Diagram illustrating the four operational positions of the multi-function drain wrench (Component C).

Position 1: Install and remove Component C (fully closed).

Position 2: Drain a small amount of liquid (partial drain).

Position 3: Level check (fluid level verification).

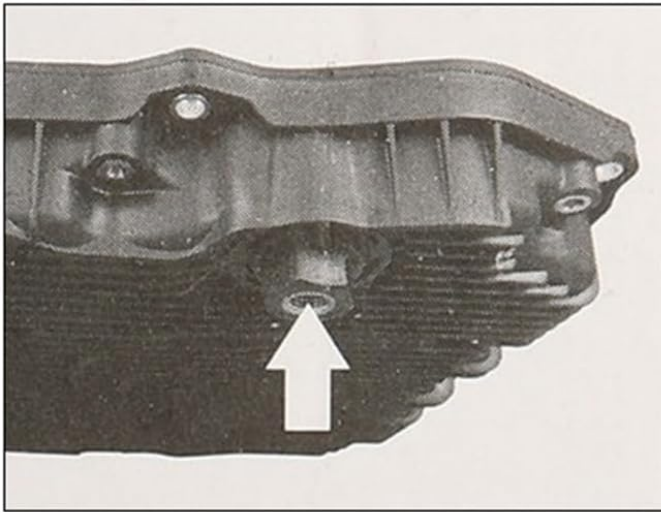
Position 4: Drain the oil (Full flow, fully open).

5. SETUP AND INSTALLATION

Before beginning any procedure, ensure the vehicle is safely elevated and stable. Locate the transmission oil pan and the drain/fill plug.

1. **Access the Transmission:** Safely lift and support the vehicle to gain access to the transmission oil pan.
2. **Locate Drain Plug:** Identify the transmission drain plug on the oil pan.

3. **Prepare for Draining (if applicable):** If draining fluid, ensure a suitable collection pan is positioned beneath the drain plug.
4. **Connect Filling Adapter:** For filling operations, connect the ATF109 Filling Adapter to the Fuel Filler Joint. This assembly will then be connected to your fluid pump or supply hose.



Oil pan location



Oil-filled fittings



Figure 8: Illustration of the oil pan location and where the oil-filled fittings are connected.

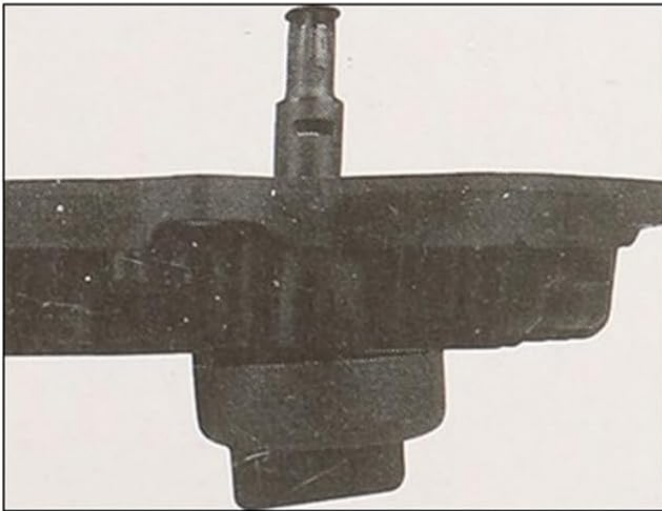
6. OPERATING INSTRUCTIONS

These instructions cover the general use of the tools for fluid management in Mercedes Benz 725.0 transmissions. Always consult your vehicle's specific service manual for exact procedures and fluid temperature requirements.

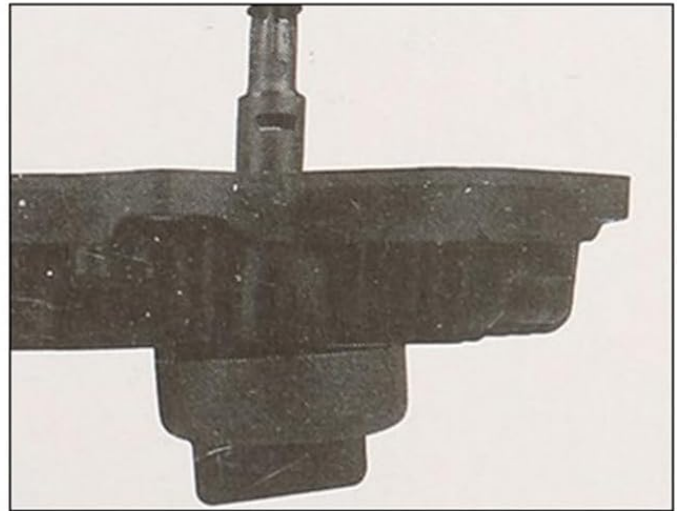
6.1. Draining Transmission Fluid

1. Ensure the transmission fluid is at the recommended temperature for draining (refer to vehicle manual).

2. Position a drain pan under the transmission.
3. Use the 8mm Oil Pan Screw Wrench to carefully loosen and remove the outer drain plug.
4. Insert the Oil Drain Wrench (multi-function key) into the internal valve of the drain plug.
5. Rotate the Oil Drain Wrench to **Position 4 (Full flow)** as shown in Figure 7 to fully drain the transmission fluid.
6. Once draining is complete, rotate the Oil Drain Wrench to **Position 1 (Install and remove Component C)** to close the internal valve.
7. Remove the Oil Drain Wrench and reinstall the outer drain plug using the 8mm Oil Pan Screw Wrench, tightening to manufacturer specifications.



Multi-function key for draining oil



Drain wrench



Figure 9: The multi-function key used for draining oil, alongside the drain wrench.

6.2. Filling Transmission Fluid

1. Ensure the drain plug is securely installed and the internal valve is in **Position 1**.
2. Connect the assembled Fuel Filler Joint and ATF109 Filling Adapter to the transmission's fill port.
3. Connect your fluid pump or supply system to the filling adapter.
4. Begin pumping the specified transmission fluid into the transmission. Fill until fluid begins to drip from the fill port.
5. Remove the filling adapter assembly.

6.3. Checking Fluid Level

Transmission fluid level checks are critical and must be performed at the correct fluid temperature, typically with the engine running. Refer to your vehicle's service manual for the precise procedure.

1. Ensure the transmission fluid is at the manufacturer-specified temperature for level checking.
2. With the engine running and the vehicle on a level surface, remove the outer drain plug.
3. Insert the Oil Drain Wrench (multi-function key) into the internal valve.
4. Rotate the Oil Drain Wrench to **Position 3 (Level check)** as shown in Figure 7.
5. Observe the fluid flow. If fluid drips out slowly, the level is correct. If no fluid drips, add fluid until a slow drip occurs. If fluid flows out rapidly, the transmission is overfilled.
6. Once the correct level is achieved, rotate the Oil Drain Wrench back to **Position 1**.
7. Reinstall the outer drain plug and tighten to specifications.

7. MAINTENANCE

Proper maintenance of your ePathChina Transmission Oil Filling Tool will ensure its longevity and reliable performance.

- **Cleaning:** After each use, clean all components with a suitable degreaser or mild soap and water. Ensure all fluid residue is removed.
- **Drying:** Thoroughly dry all components before storage to prevent corrosion, especially on metal parts.
- **Storage:** Store the tools in a clean, dry place, away from direct sunlight and extreme temperatures. Keeping them in their original packaging or a dedicated toolbox is recommended.
- **Inspection:** Periodically inspect the tools for any signs of wear, cracks, or damage. Replace any damaged components immediately to ensure safe and effective operation.

8. TROUBLESHOOTING

While this tool is designed for ease of use, some operational challenges may arise. Here are common issues and their resolutions:

- **Difficulty Rotating Oil Drain Wrench:** The plastic construction of the Oil Drain Wrench (multi-function key) may exhibit flexibility, especially if the internal valve in the transmission pan has resistance. If you encounter significant resistance or twisting of the plastic tool without the valve moving, consider using a more rigid alternative, such as an 8mm hex key, for manipulating the internal valve. Exercise caution to avoid damaging the valve.
- **Fluid Leakage During Filling/Draining:** Ensure all connections (filler joint, adapter, and drain plug) are securely tightened. Check for any cracks or damage on the tool components that might compromise the seal.
- **Inaccurate Fluid Level Check:** Always ensure the vehicle is on a perfectly level surface and the transmission fluid is at the manufacturer-specified temperature for an accurate level check. Deviations in temperature or vehicle angle will lead to incorrect readings.

9. SPECIFICATIONS

Specification	Detail
Product Name	Plastic Oil Draining Tool Adapter Kit
Brand	ePathChina
Model Number	EPC_CRT_902
Compatibility	Mercedes Benz 725.0 (9G-Tronic) 9-Speed Transmission
Replaces Part Numbers	W725589009000, W725589029000
Material	Reinforced Nylon
Item Weight	4 ounces (approx. 113 grams)
Product Dimensions	9.06 x 4.3 x 2.36 inches (packaging)

10. WARRANTY AND SUPPORT

For warranty information or technical support regarding your ePathChina Transmission Oil Filling Tool, please refer to the retailer or manufacturer's official website where the product was purchased. Keep your proof of purchase for any warranty claims.

Always ensure you are using the tool as intended and in accordance with this manual and your vehicle's service guidelines.

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