



TECHNICAL BULLETIN

How to Drain & Fill a ZF 6 Speed Automatic Transmission

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PENRITE

STEP 1. Drain

- Place drain container under transmission
- Remove the transmission fluid drain plug (see black arrow on first picture)
- Remove and replace the sealing washer
- Allow the fluid to drain
- Replace drain plug and tighten
- If completing a full filter service on transmission, replace oil pan with a new item.



Step 2. Refilling

- Remove the transmission filler plug (see black arrow in second picture) and wipe area clean
- Remove and replace the sealing washer with a new one.
- Fill transmission with 3.5 to 4.0L of appropriate ATF transmission fluid, or until a small thread of transmission fluid trickles out.
- Replace filler plug and tighten



Step 3. Check and top up transmission fluid

Please note that it is extremely important to ensure that the transmission fluid level should only be checked when the fluid temperature is between 30 °C and 50 °C (ie must be warm to the touch)

- The vehicle MUST be horizontal, (ie on a flat surface)
- Vehicle must be in park
- Parking brake must be on and the wheels locked
- Start the engine and move the gear selector through all positions, pausing in each gear for 2-3 seconds. Return to the 'P' position.
- Remove the filler plug and if no fluid loss is evident whilst the vehicle is at idle, continue to add fluid until fluid starts to run from the filler hole.
- Re-install the filler plug and tighten
- Clean surrounding area, lower vehicle and test drive

These transmissions are sensitive to fluid level, so please ensure that the correct amount of fluid is used as per the above procedure. It is highly recommended that power flush machines are not used to re-fill these transmissions.



Penrite recommend “The Right Oil for the Right Application”

[Click Here](#) to visit the Penrite Recommendation Guide, which will ensure you receive the correct oil for your application



PENRITE OIL COMPANY PTY LTD, 88 Lewis Road, Wantirna South
Victoria AUSTRALIA 3152, ABN 25 005 001 525
Enquiries: Phone 1300-PENRITE (1300 736 748)
Fax: 1800-PENRITE (1800 736 748)
International: Phone: 61 3 9801 0877, Fax: 61 3 9801 0977
New Zealand Ph: 0800 533 698, Fax: 0508 736 748

**PROUDLY AUSTRALIAN
FAMILY OWNED
SINCE 1926**



United Kingdom and EU Ph: +44 (0) 1594 562357, Fax: +44 (0) 1594 564234
Website: www.penriteoil.com, Email: penrite@penriteoil.com