



## Installation Instructions

70289

### Deep Oil Pan for THM700-R4

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B&M Deep Oil Pans provide several advantages over the stock factory oil pan. The extra capacity provides increased oil volume and added cooling and insures a large volume of oil for the transmission oil pump, preventing oil pickup starvation.

The drain plug feature allows regular transmission maintenance and oil changes without the usual mess of draining the oil pan.

The steel oil pan provides these features with a minimum of weight increase in a chrome plated eye appealing package. This kit can be installed in a short time by anyone with a minimum of mechanical experience. You will need the following tools:

- Drain pan
- Gasket scraper
- 13mm socket
- 3/8 drive ratchet wrench
- 2" extension
- 3/4" wrench

Automatic transmissions operate at temperatures between 150° and 250°F. It is suggested that the vehicle be allowed to cool off for a few hours to

avoid burns from hot oil and parts. The vehicle should be off the ground for ease of installation. Jack stands, wheel ramps or a hoist will work fine. Make sure that the vehicle is firmly supported. **Do not work under the vehicle if it is supported only by a jack.**

Try to raise the vehicle 1-2 feet so that you have plenty of room to work easily. Also have a small box or pan handy to put bolts in so they won't be lost, and a drain pan to catch oil.

**STEP 1.** Drain the oil pan. Loosen and remove the oil pan bolts one at a time, working towards the front of the transmission. Remove the last two bolts slowly and the pan will tilt down to allow the last of the fluid to drain. If the pan sticks to the old gasket, pry it down slightly with a screwdriver before removing the last two bolts to break the seal. After the last bolt is removed the pan can be lowered and set aside.

**STEP 2.** The oil filter will now be exposed. Pull the pickup tube out of the oil pump. If the pickup tube o-ring does not come out with the tube, remove it from the oil pump. Do not bend the pickup

tube as it is plastic and may crack or break. Inspect your oil filter. If it has varnish on it, or if the transmission has more than 20,000 miles on it, we recommend filter replacement.

**STEP 3.** The stock filter is supported by a small spring located at the approximate center of the valve body. **See Figure 1.** This spring must be replaced with the longer spring supplied with the oil pan. Remove the bolt shown in **Figure 1**, take off the spring, install the B&M spring and the bolt. Tighten the bolt to 100 in.-lbs. Do not overtighten.

**STEP 4.** Install the supplied o-rings on the extension tube supplied with the pan. **See Figure 2.** This pan should be installed with a new filter. It is recommended to use the TH-700R4 filter with the pre-installed multi-lip seal to prevent air leaks. Lubricate the seal on the filter and the o-rings with transmission fluid. Place the extension tube on the new oil filter. Install the assembly into the oil pump bore.

**STEP 5.** Scrape the old gasket off of the surface of the case. Old gasket material can cause leaks. Install the

B&M deep pan and new gasket onto the transmission. Re-use the original pan bolts and washers and tighten to 12-13 lbs.ft. Do not overtighten as this can cause leaks. Make sure that the drain plug is tight.

**STEP 6.** Lower the vehicle but try to keep the rear wheels off of the ground, if possible. Add 6 quarts of Dexron II or B&M Trick Shift automatic transmission fluid.

**STEP 7.** Start the engine and place the shifter in the Neutral position. Add fluid until the oil level is between the **Add** and **Full** marks. Shift the transmission through all gear positions. If the rear wheels are off the ground allow the transmission to shift through all gear positions several times. Place the selector in Neutral and check the fluid level. Do not overfill as this will cause foaming and overheating. Check the oil pan and gaskets for leaks.

## PARTS LIST

B&M Chrome Deep Pan with drain plug

Oil pan gasket

O-rings (2)

Filter pickup extension

Filter support spring

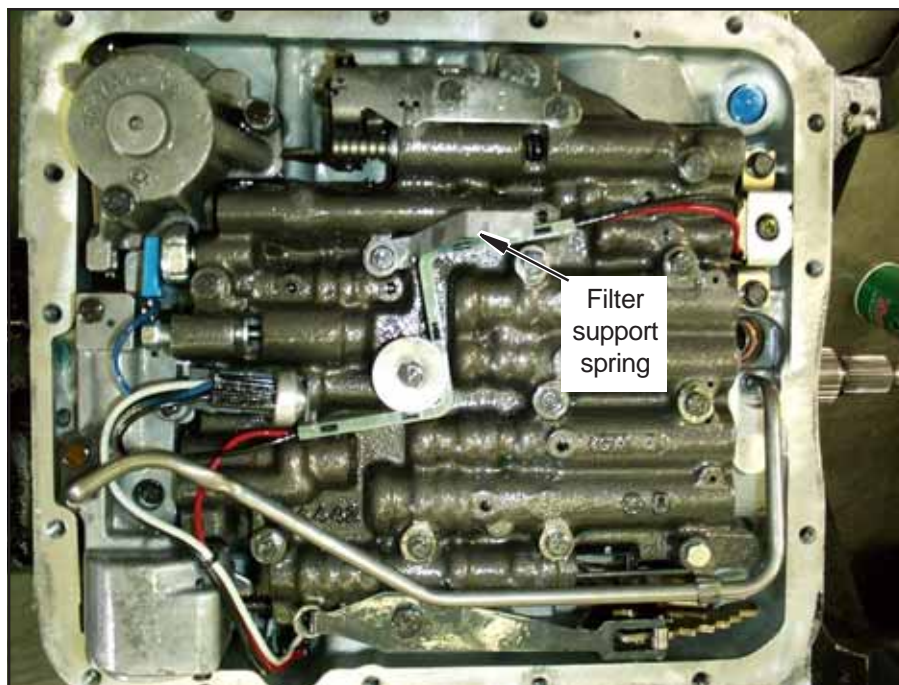


Figure 1

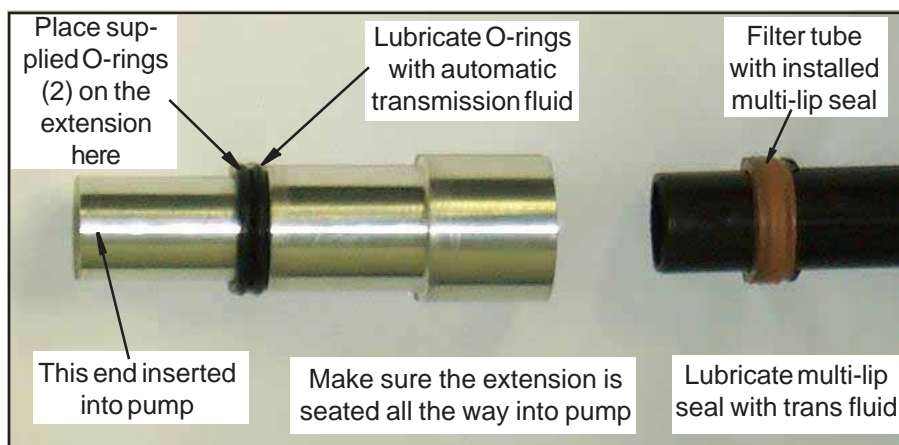


Figure 2

