

## Installation Instructions

### TH-350 Cast Aluminum Deep Pan

### TH-350 Chrome Steel Deep Pan

Part No. 30280 and 30289

(see [www.bmracing.com](http://www.bmracing.com) for the latest vehicle fitment applications and model years)

©2006, 1999 by B&M Racing & Performance Products

B&M Deep Oil pans provide several advantages over the stock factory oil pan.

The extra capacity ensures a large volume of oil for the transmission oil pump preventing oil pick-up starvation and added cooling.

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

Special steel oil pans provide the above features with a minimum weight increase in a chrome plated stamped steel pan.

Aluminum oil pans have the added feature of additional cooling from inner and outer fins and providing improved case rigidity.

Before beginning, check the parts list to make sure you have all the necessary parts. Also check the tool list. A minimum of tools are required.

This kit can be installed in a few hours by carefully following directions. Read all instructions first to familiarize yourself with

the parts and procedures. Work slowly and do not force any parts.

Automatic transmissions operate at temperatures between 150°F and 250°F. It is suggested that the vehicle be allowed to cool 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 vehicle is firmly supported!!** Try to raise it 1 - 2 feet so 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 oil pan. Loosen and remove oil pan bolts one at a time, working toward the front of the transmission. (Note: some vehicles will require removal of the crossmember to remove the pan. Make sure you support the back of the transmission so you won't damage the distributor). 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 (See Fig. 1). Use a screwdriver to remove two screws and remove the oil filter and filter gasket. Discard the filter and gasket.

**STEP 3.** Install the filter extension and new gasket, supplied with the kit, in position on the valve body. Install filter extension screws and tighten securely (See Fig. 2). Install special B&M filter using the screws and nuts supplied with the kit. Tighten screws securely. **NOTE: One hole will be blocked by the the B&M filter with NO affect to functionality.**

**STEP 4.** Scrape old gasket off surface of case. Old gasket material can cause leaks. Install deep pan and new gasket onto transmission. **Do not use stock bolts (CAST PAN ONLY)** as they are too short. **Chrome pan**

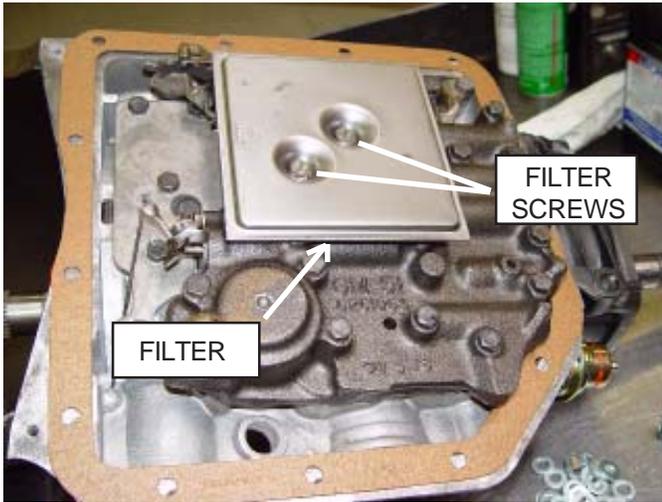


Figure 1

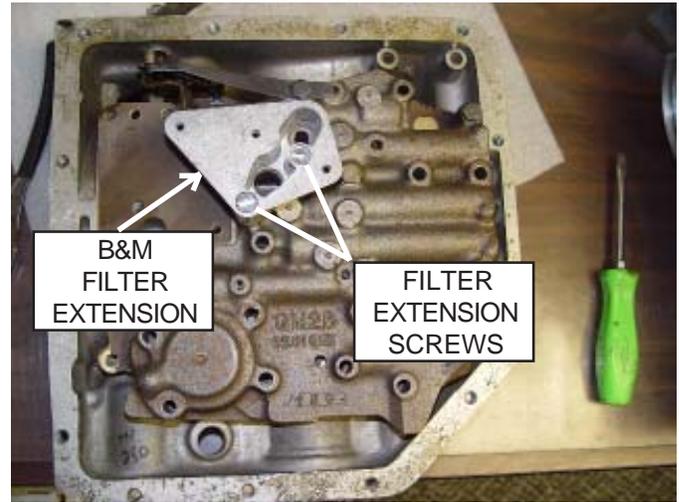


Figure 2

**will re-use stock pan bolts.**

Tighten bolts 12-13 ft-lbs. Do not overtighten as this can cause leaks. Install drain plug and tighten 20-25 ft-lbs.

**STEP 5.** If using a temperature sensor, install in provided 1/8" NPT port on driver's side, otherwise tighten 1/8" NPT plug. (only applicable on cast pan)

**STEP 6.** Lower vehicle but try to keep rear wheels off the ground, if possible. Add 6 quarts of B&M Trick Shift ATF. While Trick Shift is superior in heat capacity, lubrication and friction material performance, if Trick Shift is unavailable, we recommend Ford Type F fluid over Dexron or Type A.

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

**PARTSLIST**

1	Oil Pan (Deep Cast or Deep Chrome)
1	Pan Gasket
1	Drain Plug and Gasket
1	Filter (#10288)
1	Filter Extension
1	Filter Extension Gasket
2	Filter Extension Screws
3	Filter Nuts
3	Filter Screws
13	Washers (Cast deep pan ONLY)
13	Pan Bolts (Cast deep pan ONLY)

**TOOL LIST**

1	1/2" Socket - 3/8" Drive
1	Speed Handle or Ratchet - 3/8" Drive
1	1/2" Wrench
1	Flat Blade Screwdriver
1	3/4" Wrench
1	Scraper
1	Torque Wrench 0-50 ft.-lbs. (optional)