



# Installation Instructions AOD/AODE/4R70W Cast Aluminum Deep Oil Pan

Part Number 40291

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Congratulations! You have just purchased one of the finest cast aluminum pans available for the Ford AOD/AODE/4R70W Transmission. The **B&M AOD/AODE/4R70W Cast Aluminum Deep Oil Pan** has been designed to work on most **1981 through 1998** Ford trucks with the AOD/AODE/4R70W transmission. The **B&M AOD/AODE/4R70W Cast Aluminum Deep Oil Pan** provides several advantages over stock factory oil pans. The extra capacity provides increased oil volume and added cooling, while the aluminum construction increases case rigidity. The drain plug feature allows regular transmission maintenance and oil changes without the usual mess associated with "dropping the pan."

This **B&M AOD/AODE/4R70W Cast Aluminum Deep Oil Pan** can be installed by anyone with minimum mechanical experience. It is however, important to closely follow the instructions.

We recommend that you read through the instructions completely before beginning the installation, so you can familiarize yourself with the installation procedure. Check the tool list at the end of these instructions for the tools

required to install your **B&M AOD/AODE/4R70W Cast Aluminum Deep Oil Pan**.

When installing your Deep Oil Pan there are several other B&M products you may wish to consider:

**TRANSMISSION OIL COOLER:** We feel that it is very important that every vehicle should have a transmission oil cooler in addition to the radiator heat exchanger. Heat is the major cause of transmission failures, and an oil cooler is an inexpensive safeguard against overheating. **B&M** offers a wide range of transmission coolers to suit every need, which are available at your **B&M** dealer.

**TRICK SHIFT PERFORMANCE ATF:** Trick Shift performance automatic transmission fluid is the industry's leading performance ATF. A specially blended oil with foam inhibitors, extreme pressure agents and shift improvers, this fluid assures protection while delivering the fastest possible shifts. You literally "Pour in performance." Also, available at your **B&M** dealer.

## INTRODUCTION

This Deep Oil Pan can be installed in about an hour by carefully following the instructions. Transmission components are precision fit and dirt is the number one enemy of an automatic transmission. Cleanliness is very important, so a clean work surface from which oil can easily be removed is necessary.

Caution: Automatic transmissions operate at temperatures between 150°F 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 VEHICLE IS FIRMLY SUPPORTED - DO NOT WORK UNDER A VEHICLE IF IT IS SUPPORTED BY ONLY A JACK!** Try to raise the vehicle 1-2 feet so you will have plenty of room to work. Also, have a small box to put bolts in and a drain pan to catch oil.

## INSTALLATION

**STEP 1.** Remove original oil pan. Have

an oil drain pan ready to catch the oil. 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 to break the seal before removing the last two bolts. After the last bolt is removed, the pan can be lowered and set aside.

**STEP 2.** The oil filter will now be exposed. B&M recommends that the filter be changed at this time. If you have a AOD transmission then this pan was designed to be used with a 4WD filter; Ford E4TP-7F003-AA or equivalent). If you have a AODE/4R70W transmission, then this pan was designed to be used with a 4WD filter; FORD F6AZ-7A098-A or equivalent.

**Note: the 2WD filter may still be used, but it's not recommended if vehicle is used off-road.**

**STEP 3.** Clean the old gasket off of the case and install the new appropriate gasket and deep pan. **Do not use original bolts-** Use the supplied pan bolts and washers (torque to 10 ft.lbs.). Do not overtighten as this can cause leaks. Make sure drain plug is tight.

**STEP 4.** Install supplied M12 set screw into unused hole in pan. Use plumber's tape to ensure a good seal.

**STEP 5.** Lower vehicle and add seven quarts of MERCON® or **B&M Trick Shift ATF.**

**STEP 6.** Start the engine and place shifter in the neutral position. Add fluid until the oil level is at the "add" mark. Shift the transmission through all gear positions. Check the oil pan and gaskets for leaks. Once the transmission has warmed up, add fluid to bring the level up to "full." Do not overfill as this causes foaming and overheating.

### Parts List

- 1 Aluminum Cast Oil Pan
- 1 Pan Gasket for AOD
- 1 Pan Gasket for AODE/4R70W
- 1 Drain Plug
- 1 Drain Plug Gasket
- 14 M8-1.25 x 20 mm Bolts
- 14 Flat Washers
- 1 M12 set screw

### Tool List

- Drain Pan
- Gasket Scraper
- 3/8" Ratchet & 3" Extension
- 10 mm Socket
- 6 mm Allen Wrench
- 3/4" Box Wrench
- Screwdriver
- 9 Quarts ATF

### TRANSMISSION IDENTIFICATION

The transmission pan for AOD has only one hole difference from the AODE/4R70W.

Please consult the diagram below to identify your transmission.

