



## Ford Oil Pans

**Before starting any service, use the proper safety equipment to protect yourself from any injuries. For complete removal and assembly procedures, consult a factory service manual for your vehicle. Before final assembly, make sure all parts are thoroughly cleaned.**

### OIL PAN FIT

When fitting a new Oil Pan on your engine, the area around the timing cover will seem large, but when the oil pan is bolted down with the gasket in place it will seal up correctly. Due to the welding done on these pans, there is always a chance of slight warping. While our specially designed fixtures greatly reduce the warping factor, you may encounter a slight "rocking" effect when laying the pan down. We have found that an initial rocking of up to 1/4" on a new pan is completely acceptable. Using silicone on the rail near the front and rear seal areas will prevent any possibility of leaks. Also, if this oil pan contains hinged trap door style baffles, it is advisable to install the pan with the engine upright to insure no trap doors will be stuck open.

### OIL PUMP PICKUPS

Be sure you are using the correct pickup with your Moroso Oil Pan. Refer to a Moroso catalog for the proper part number. If you use a press-in type extended pickup, it is highly recommended that it is brazed to the oil pump housing, this eliminates the possibility of the pickup coming out of the oil pump due to vibration. Before the oil pan is bolted down, make sure the height of the pickup from the bottom of the oil pan is 3/16" to 3/8". The easiest way to measure this is to place some clay on the four corners of the pickup box, measure how high the clay is, bolt the oil pan to the block, remove the oil pan and measure how much the clay was crushed.

### GASKETS

Moroso Ford Oil Pans were designed to fit around today's high quality one-piece rubber gaskets. These gaskets allow you ease of installation, while providing a better seal in the front area around the timing cover. Poor quality off-brand and 4-piece gasket sets do not fit properly in this area when using an aftermarket oil pan and many leaks have been traced to this problem. As always, using a dab of silicone in the corners where the gasket meets the pan rail at the front and rear seals will prevent a leak from forming.

### HARDWARE

If bolts were supplied with your oil pan, these will be used to secure the front and rear seal areas of the pan rail to the engine. Remove the access plugs from the bottom of the oil pan, install the supplied bolts through these holes into the block and tighten along with other bolts securing the oil pan. Remember to re-install and tighten the access plugs and tighten the oil drain plugs.

### WINDAGE TRAYS

Refer to a Moroso catalog for available Windage Tray and Mounting Studs to be used with your specific Oil Pan.

### DIPSTICKS

If your Moroso Oil Pan came equipped with a 1/4" NPT Pipe Coupling welded to the side of the oil pan's sump, you are required to use our Universal Dipstick Part Number 25970. This Dipstick is installed utilizing a compression fitting which will allow you to set the dipstick to the correct height for a particular oil level. The dipstick tube may need to be bent or modified in order to bolt up correctly and gain header or exhaust manifold clearance.

To install, start by adding the recommended oil capacity to your pan minus the recommended amount for the oil filter. Once this has been done install the dipstick with the compression fitting installed before the dimple on the stick (See picture below). Do not tighten the compression fitting at this time. Leave it loose so the dipstick will move up and down freely within the compression fitting and pipe coupling. Adjust the dipstick tube up or down until the dipstick reads at the full mark and then tighten the compression fitting to lock it in place. **Note: the bead on the dipstick does not get inserted up against the compression fitting for all applications.** Then add the appropriate amount of oil for the filter.

If your oil pan did not come equipped with a pipe coupling welded to the sump, you will be able to reuse your stock oil pan's dipstick. If you are having a hard time finding an aftermarket Dipstick to fit our pan call our Technical Service Department. They can recommend a Dipstick that will work.

