

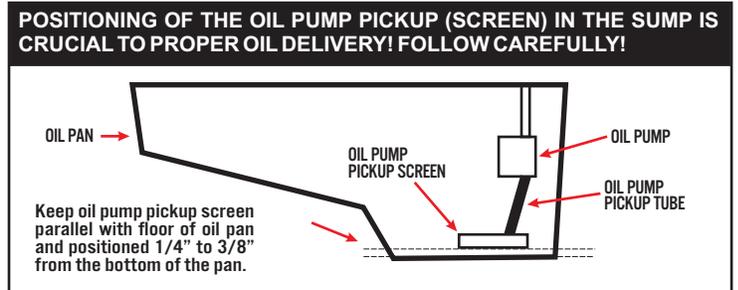


## OIL PAN INSTALLATION INSTRUCTIONS

(Refer To Instruction Supplement  
For Hamburger's #3080 & #3090)

1. If you are installing a Hamburger's oil pan on an operating engine, remove all old gasket material from the cylinder block's side rails, making certain no residue is left in the tapped bolt-holes in the block. For best installation results, run a bottoming tap into each threaded hole and clean out with compressed air. Also, remove the rear main bearing pan seal and pan seal located in the timing gear cover. Clean away any residual gasket cement.
2. If installing a Hamburger's oil pan on an engine being built, make certain all appropriate gasket surfaces (as outlined above) are properly cleaned and prepared for new gaskets and seals.
3. Install the Hamburger's oil pump pickup in oil pump housing. Trial-fit the pump into the engine to check if the base of the pump pickup is parallel to the floor of the oil pan (*see illustration*). In rare cases, it may be necessary to adjust the pickup to provide correct alignment with the oil pan floor.

**NOTE:** It is strongly recommended that you tack-weld the pickup tube to the pump housing to prevent pump/tube separation during severe use or vibration.



4. With the oil pump temporarily installed and no gaskets or seals in place, trial-fit the oil pan to make certain there is clearance for all components (oil pump pickup, pan baffles, etc.). If no adjustments are required, remove the oil pan and permanently install oil pump. Measure the distance between the oil pump pickup screen and the pan floor. The clearance **MUST** be between 1/4" - 3/8" with the Hamburger's oil pan gasket installed. **If you are using a high volume pump, you may need to modify the pickup. For #3080 and #3090 Ford oil pans, see instruction sheet supplement.**
5. Using some form of gasket cement, position and glue side rail gaskets to the cylinder block. Make certain all appropriate bolt holes between the block and gaskets are properly aligned.

**NOTE:** Only use Genuine Hamburger's oil pan gasket sets! The use of other gaskets, such as 1 piece or extra thick, will cause major engine damage due to oil pressure loss caused by the increased distance between pickup and pan floor. Pan warping and oil leaks may also occur. Use of a non Hamburger's pan gasket will void your Hamburger's oil pan Warranty. **See gasket chart below to ensure correct gasket usage.**
6. Install the oil pan seals in the rear main bearing cap and timing gear cover. The siderail gaskets and end seals overlap and must be trimmed to ensure a proper, leak-free seal. Trim the siderail gaskets so they butt up against the rubber end seals and do not overlap.

**NOTE:** We recommend the use of an RTV or "room temperature vulcanizing" gasket sealer between the end seals and grooves into which the seals are seated.
7. Apply a thin coat of RTV (type gasket sealer) to the oil pan side of the siderail gaskets and end seals. Pay special attention to the area where the side rail gaskets and end seals join, ensuring there are no gaps.
8. Position pan onto the side rails and over end seals. Install all oil pan bolts, making certain that all bolts can be started before tightening. Tighten fasteners to 12-ft. lbs. by working from the center of the pan rails out toward the end seals. **DO NOT OVERTIGHTEN THE FASTENERS!**

**IMPORTANT NOTE-** Hamburger's BB Chevy pans #1488 and #1498 have specially notched siderails. These pans require the special gasket set included with your new pan (hamburger's #3004). Due to the additional bolt spacing required to accommodate the notched rails, it is strongly recommended that spreader bars be used for the installation of these unique oil pans.
9. Re-install any dipstick holders, dipsticks, temperature sending bulbs and all other components previously removed during this oil pan installation.
10. Start the engine and bring it up to operating temperature. Turn off engine and allow it to cool. Re-torque all fasteners to compensate for gasket compression during first heat cycle. **Do not over-tighten oil pan fasteners!** Overtightening of oil pan fasteners produces excessive gasket compression in the area of the fastener, and will lead to future oil leaks.



## OIL PAN INSTRUCTION SHEET SUPPLEMENT FOR PART#s 3080 & 3090 FORD 260 -351W

**Important!** Read all instructions, and supplement, before beginning this installation.

### A STUD GIRDLE IS RECOMMENDED FOR USE WITH #3080 AND 3090.

The pickup must be lowered 1/2" on 260-302 engines for oil pan #3080, and lowered 5/8" on 351W, for oil pan #3090.

If a stud girdle is not used, the following procedure must be performed to achieve the same result. If these steps are not followed, the oil pickup will not be submerged deep enough in the oil. This improper positioning will cause oil starvation, and lead to engine damage and/or failure.

1. Remove the #3 bolt from the main cap and replace it with a threaded stud, nut and threadlocker. This stud will be used to support the oil pickup tube.
2. Install the oil pickup, sliding the pickup tube bracket onto the stud.
3. Check the oil pick-up screen's position in relation to the bottom of the pan. The pick-up screen must be parallel to the floor of the oil pan, and be between 1/4" and 3/8" from the bottom of the pan. If minor adjustments are required to achieve proper depth and angle. Use washers on the support stud, or carefully bend the pickup bracket until the pickup screen is properly positioned.
4. Install a second flange nut, with threadlocker, to securely hold the pickup in place.

### OIL PAN GASKETS

The Hamburger's Oil Pan Gasket Set included with this pan is compatible with 260-302W, as well as, 351W oil pan applications. It contains two (2) side rails and three (3) end seals. Your pan will only require two (2) of these end seals. See below for proper selection of the seals

#### **SIDE RAIL GASKETS:**

- Used for all 260-351W oil pans

#### **RUBBER END SEALS:**

- 260-302W engines use the two (2) SMALLER seals.
- 351W engines, use One (1) SMALL seal and the LARGE seal.