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Product Instructions

#20-939

4.6/5.4 FORD WINDAGE TRAY

- 1) Empty oil from oil pan.
- 2) Unbolt pan from block. Carefully remove. Do not pry loose. This can cause oil pan rails to become bent.
- 3) Remove the oil pump pickup from the engine block by unscrewing the two bolts holding it to the oil pump, and one bolt holding the tube to the main cap bolt. (*Note: Your oil pump pickup may need modification before reinstalling.)
- 4) The mounting surface on the engine block and oil pan should be clean to ensure a tight seal. Any residue left from the old oil pan gasket can be removed with a gasket scraper or with a light sanding.
- 5) Install the oil pan stud kit using an Allen wrench. The studs should be screwed in far enough to be well seated while leaving enough of a protrusion out of the engine block to mount the windage tray, oil pan and gaskets.
- 6) Run a thin bead of silicone on each side of windage tray and guide the tray onto the installed studs of the engine block.
- 7) Lay the oil pan gasket over the installed studs of the engine block and the installed windage tray.
- 8) While holding in place, finger tighten 2 - 4 nuts onto the studs.
- 9) Reinstall the pickup.
- 10) Guide the pan onto the studs.
- 11) Tighten the pan using the manufacturer's bolt sequence and torque specifications. Fill pan with required amount of oil for the pan.

***OIL PUMP PICKUP MODIFICATION:** Ford fitted a rectangular plate (makeshift crank scraper) on the pickup tubes of some models. If your pickup has this scraper, you will need to trim it in order to use our windage tray. Trim the plate close to the tube being careful not to cut the pickup tube in the process.

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