



4.6L FORD WINDAGE TRAY P/N 22933

NOTE: Oiling system upgrades are best performed with the engine out of the vehicle.

- 1) Remove oil pan from engine. Clean pan rail and block surface.
- 2) Remove oil pickup tube (two fasteners at oil pump, one at main cap). Put fasteners and flange o-ring aside for reinstallation.
- 3) Remove OEM windage tray if equipped (4V & 3V).
- 4) Install supplied mounting studs into block rails.
- 5) Install tray on block (there are three common methods, all effective).

Method 1. Block / gasket / tray / gasket / pan (recommended)
(Must trim vertical nubs on one gasket)

Method 2. Block / sealant / tray / gasket / pan

Method 3. Block / gasket / tray / sealant / pan

- 6) Reinstall oil pickup tube (4V pickup requires careful scraper removal). Check pickup to pan clearance and adjust as needed.
- 7) Rotate engine by hand and check for any interference. Adjust tray if needed.
- 8) Reinstall oil pan (4V OEM pan requires careful scraper removal). Torque to factory specs.

**For Technical Assistance, Call Moroso's Tech Line at
(203) 458-0542, 458-0546 8:30am – 5:00pm Eastern Time**

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