



## Crankshaft Scraper Kit

The Livernois Motorsports crankshaft scraper kit is designed to free up horsepower that is being consumed and lost due to friction caused by oil. The kit is meant to be a direct bolt in with no special work required.

The scraper is custom fitted and formed to the exact shape of the rotating crankshaft and connecting rods. It is designed to fit with minimal space between the moving parts and the scraping edge. This is to maximize the effectiveness of the unit.

The scraper unit is designed to use two factory Ford oil pan gaskets and be sandwiched in between. There are drain return slots cut into the perimeter of the unit which are intended to allow oil to return to the pan with minimal interference with the moving parts. There is also a provision for the factory dipstick tube.

There are two different versions available. The version designed for the iron or Romeo block is built to work with our own drainback kit. The scraper tray has holes which allow the drainback tubes to pass through the tray. The other version is designed for most late model aluminum Ford blocks and has the drainback slots positioned to fit over the cast in oil return slots.

Installation is fairly straightforward and simple-

1. Test fit the unit onto you shortblock by installing the first oil pan gasket, the scraper tray and then the second gasket and bolting them down. This will allow you to rotate the engine to verify that the scraper clears as well as you can bolt on your pickup and oil pump and verify that there are no clearance issues.
2. After verifying that there are no clearances issues you can final prepare the gaskets and scraper tray for assembly. Make sure that all surfaces are oil free and dry. When installing the factory Ford gaskets you will need to snip off the small alignment tabs that stick up around the edge of the plastic frame. These tabs will interfere with tray and not let it sit fully flat. They are easily cut-off with side-cuts.
3. Install the tray and then proceed with the normal installation of the oil pickup tube and oil pan.

The 3 Valve scraper tray has provisions to allow for the 3 valve specific pickup tube as well as the oil pump.

If there are any questions or issues do not hesitate to give Livernois Motorsports a call and we would be glad to assist you.