

## DIY PRB Type-S Oil Pump Kit Installation Tips

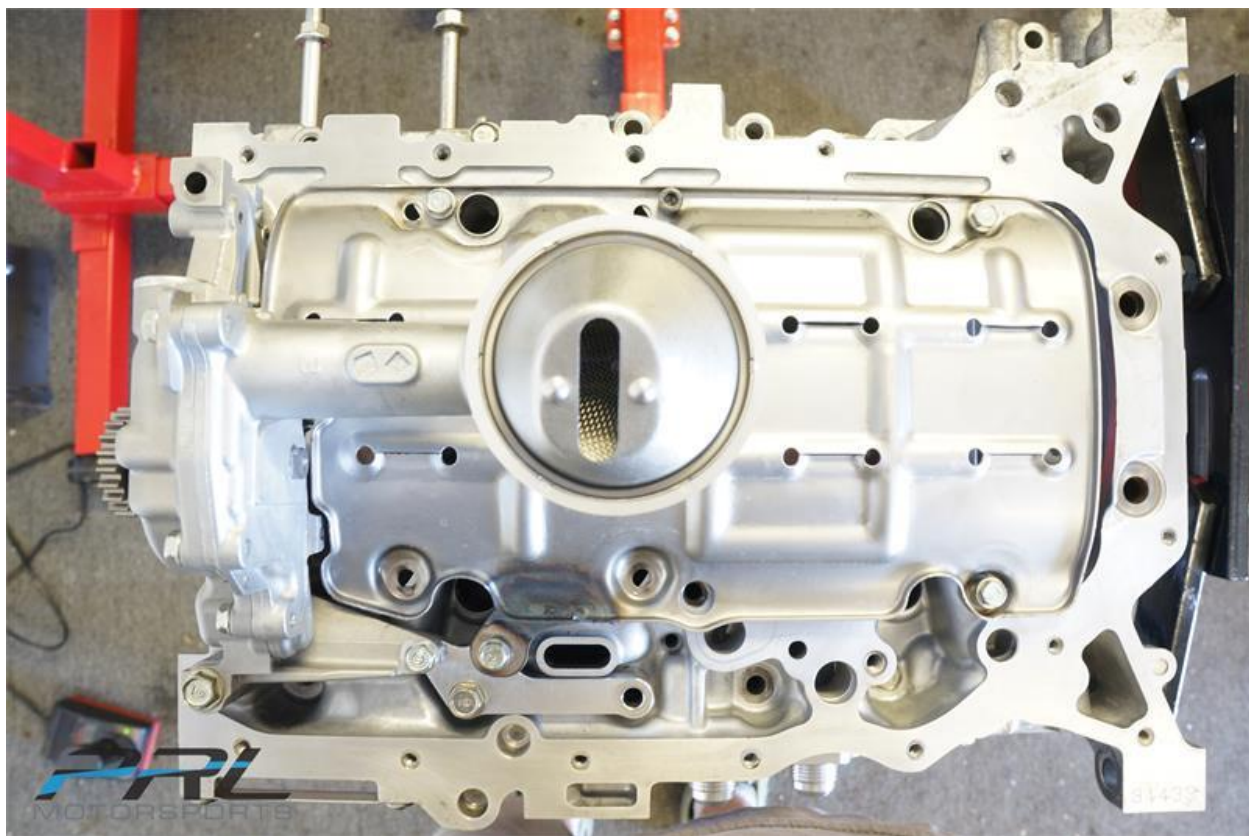


Originally, this kit was developed for our internal use when we had an engine building program. Due to demand and the lack of options available for the K24Z market, we decided to offer a DIY version of our original kit to the community.

### **IMPORTANT NOTE:**

- Improper installation/use of this kit or any of its components may result in engine/component failure. The PRL Motorsports Oil Filter Block-Off Plate/Relocation Kit CANNOT be installed without doing a full PRB Type-S Oil Pump Swap.

It is a good idea to see a picture and understand how the finished assembly is supposed to look.

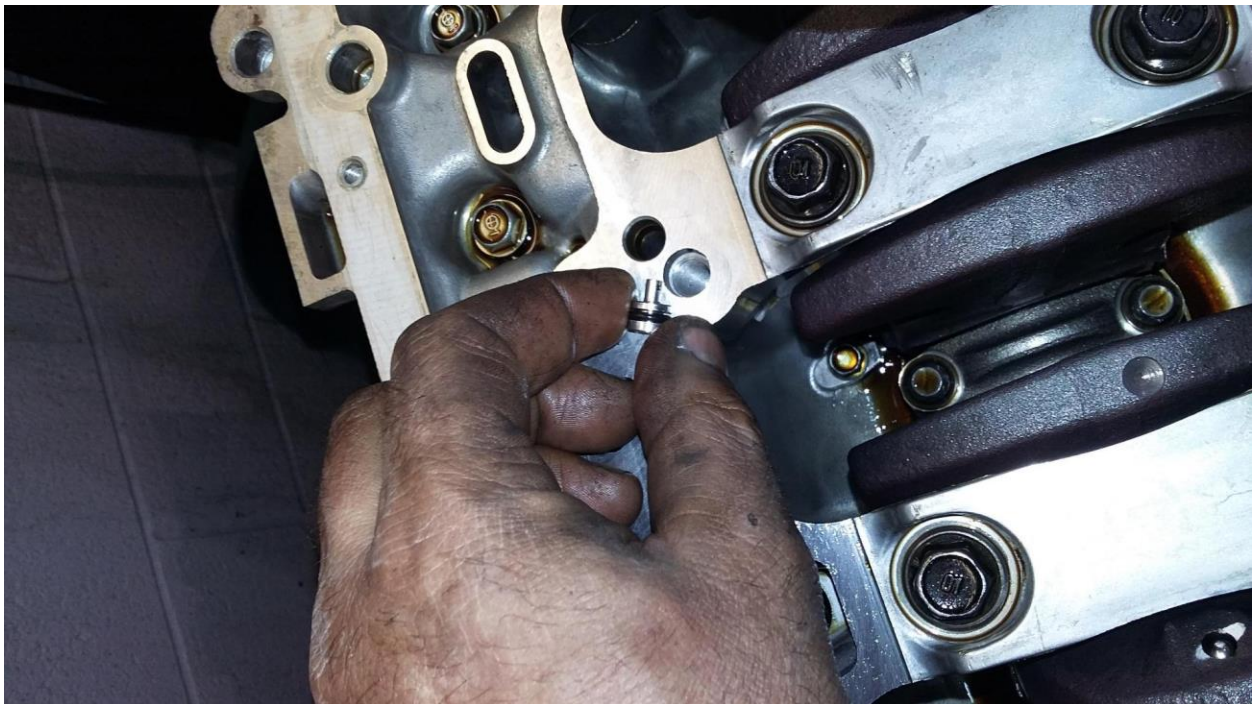
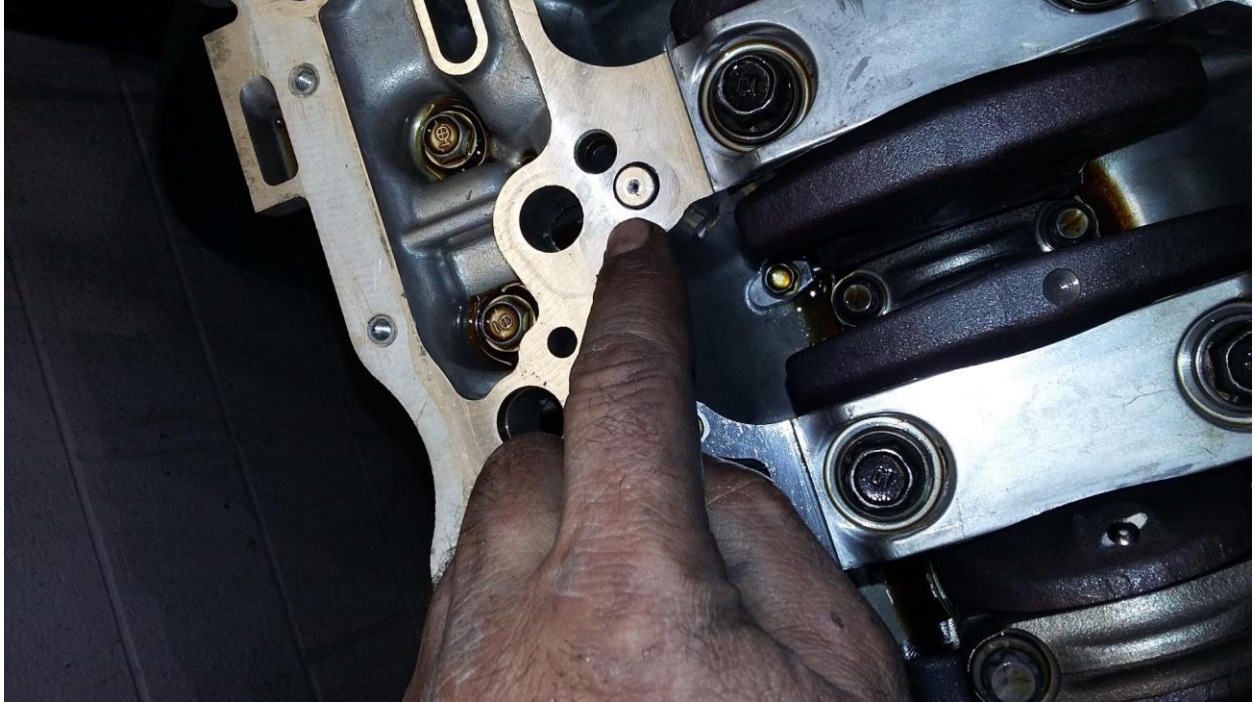


Assuming your engine is disassembled down to a bare block, we suggest starting with the initial modifications to the main girdle. Tap and block-off the small oil drain galley with the supplied 1/16" NPT plug.

**Note:** This step is optional. We suggest this step for a cleaner installation.

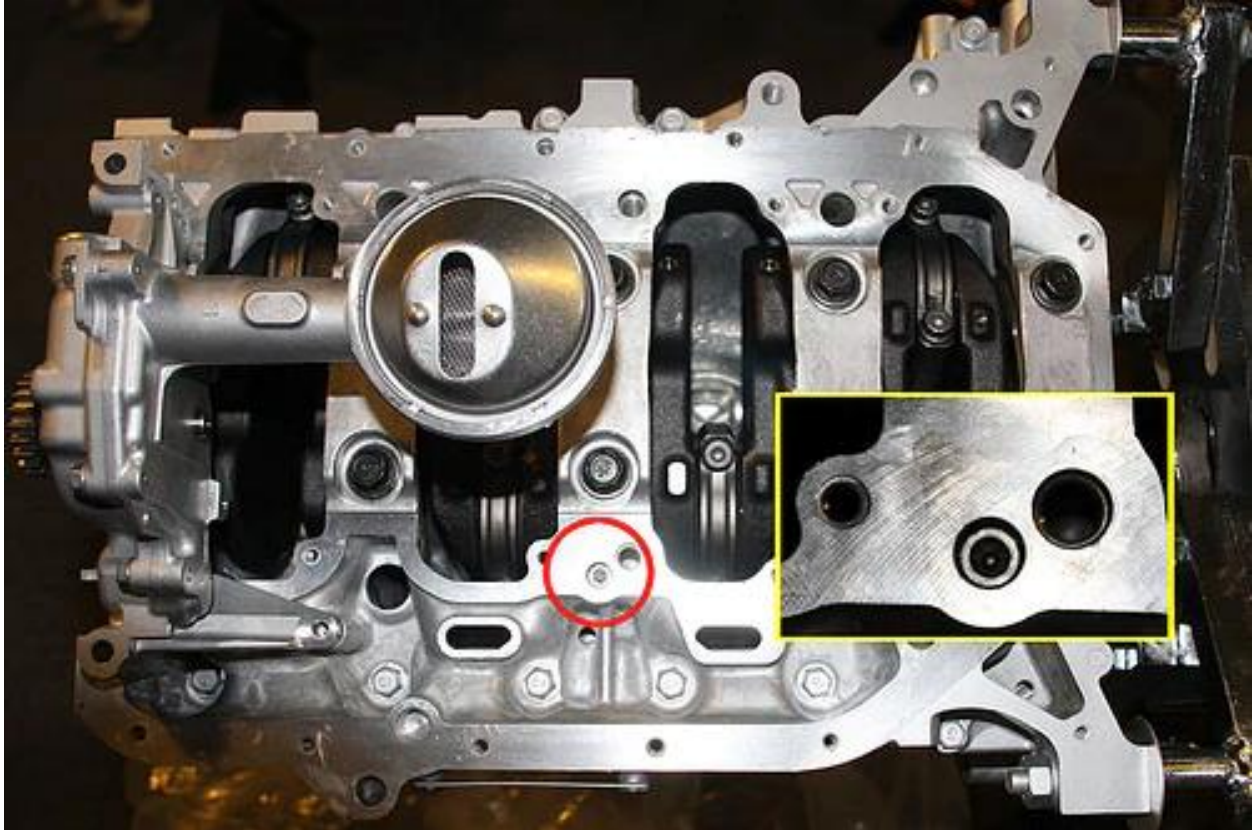


Located towards the center of the main girdle, remove the oil jet. This can be removed by threading in a self-tapping screw or using a pick to pry out. Be careful not to damage the girdle.

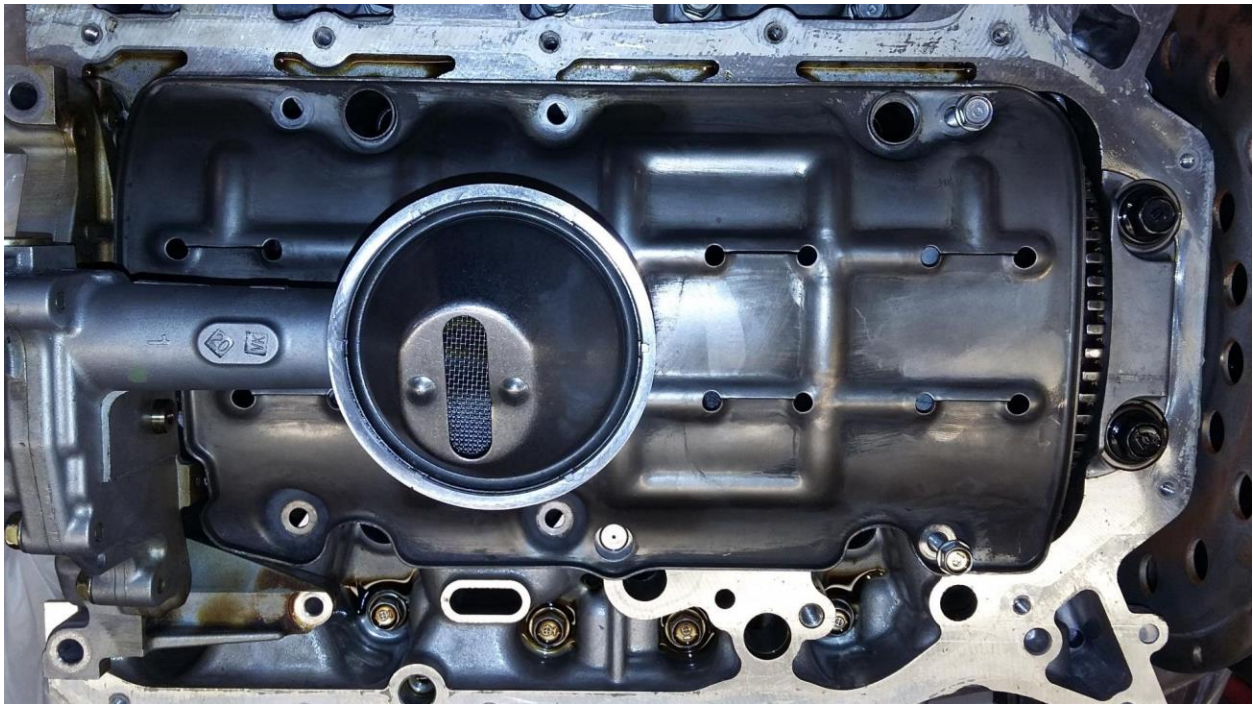


Using a 1/8" NPT tap, tap the main girdle and install the supplied 1/8" NPT plug into the oil jet port.

**Note:** Unlike other K-Series engines, K24Z (K24Z1, K24Z3, K24Z7, etc.) engines do not have a threaded oil port.



Below is how an unmodified PRB Type-S windage tray would fit to an unmodified K24Z girdle. Notice that only two bolts line up.

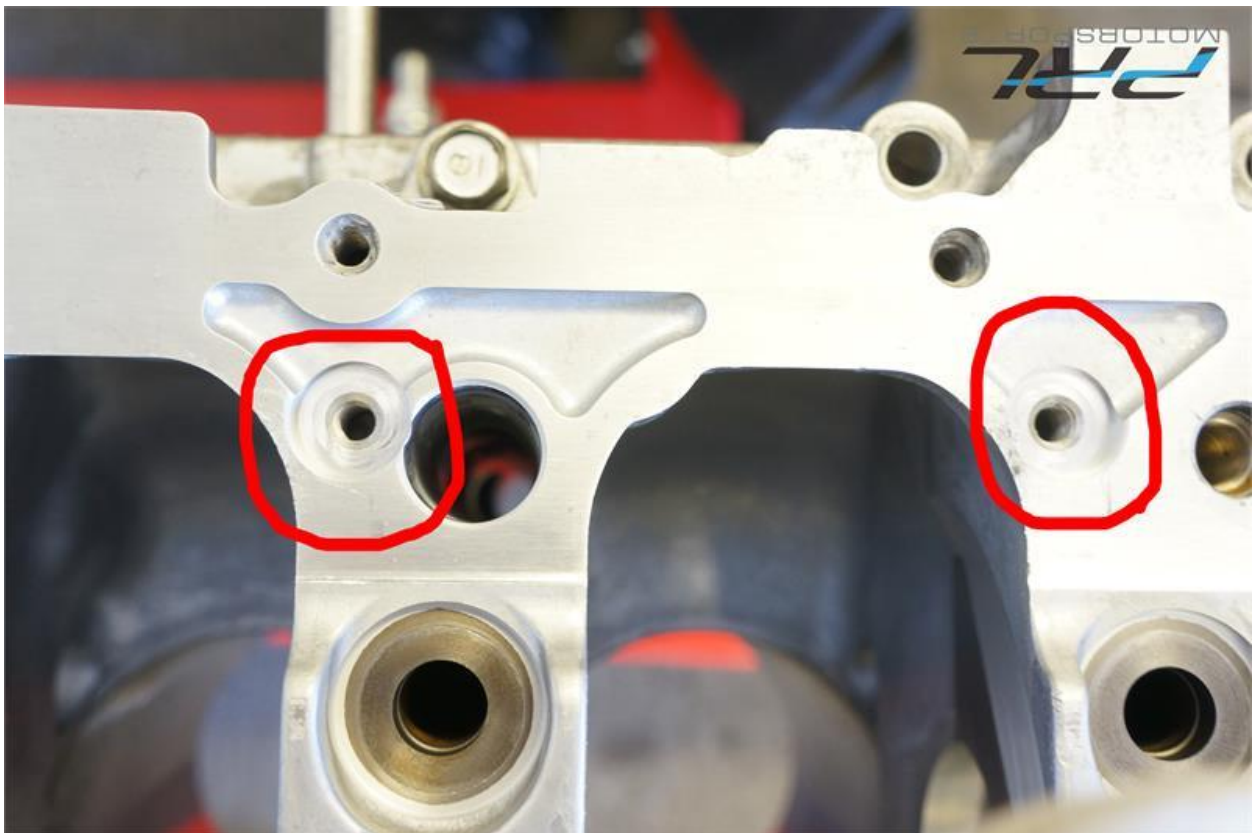


We supply a modified PRB Type-S windage tray to allow for additional mounting points.

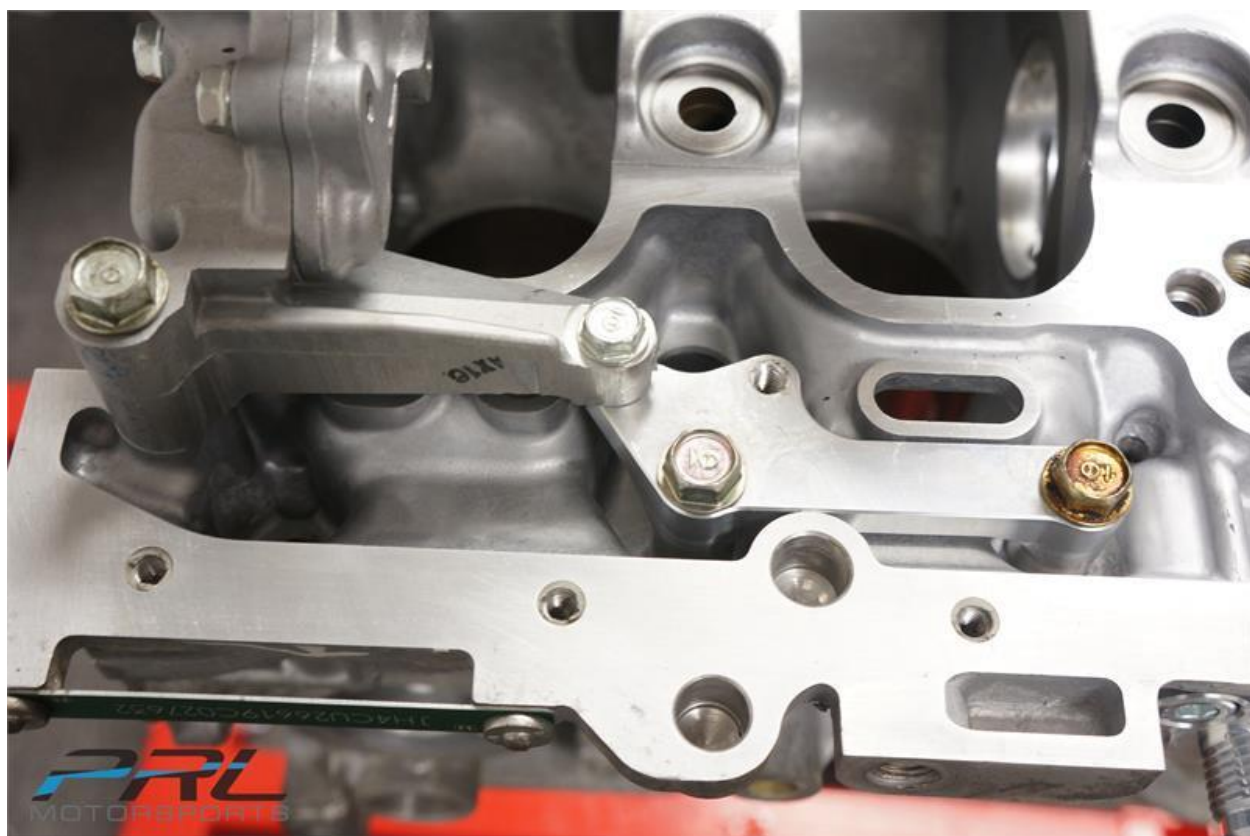


We suggest recessing two holes in the main girdle (opposite side to the oil jet) to utilize the two supplied 1/2" OD, 3/16" thick spacers to support, which attach the windage tray. Some customers and kits choose not to do this step, but we feel that not doing so allows for insufficient support and the possibility of rattling.

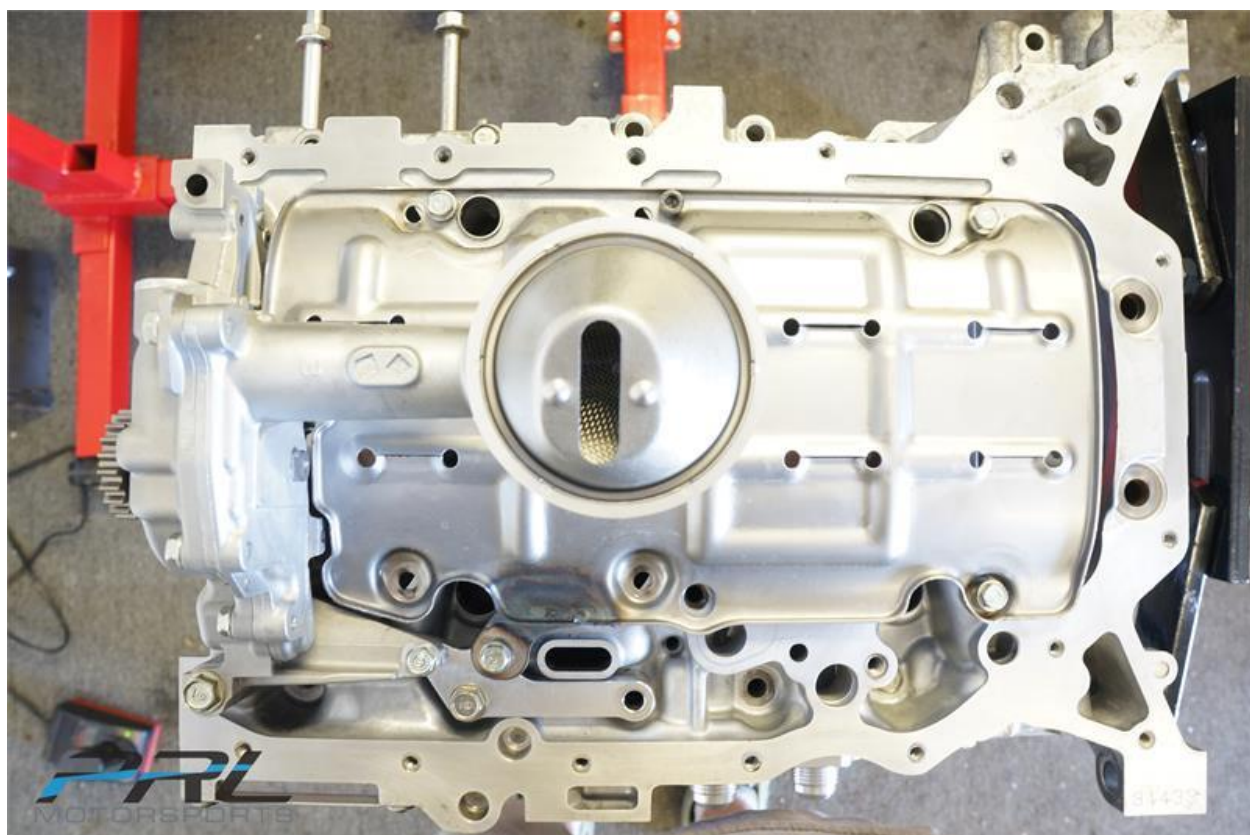
**Note:** This step was intended to be CNC machined but can be done with hand tools with patience and proper experience.

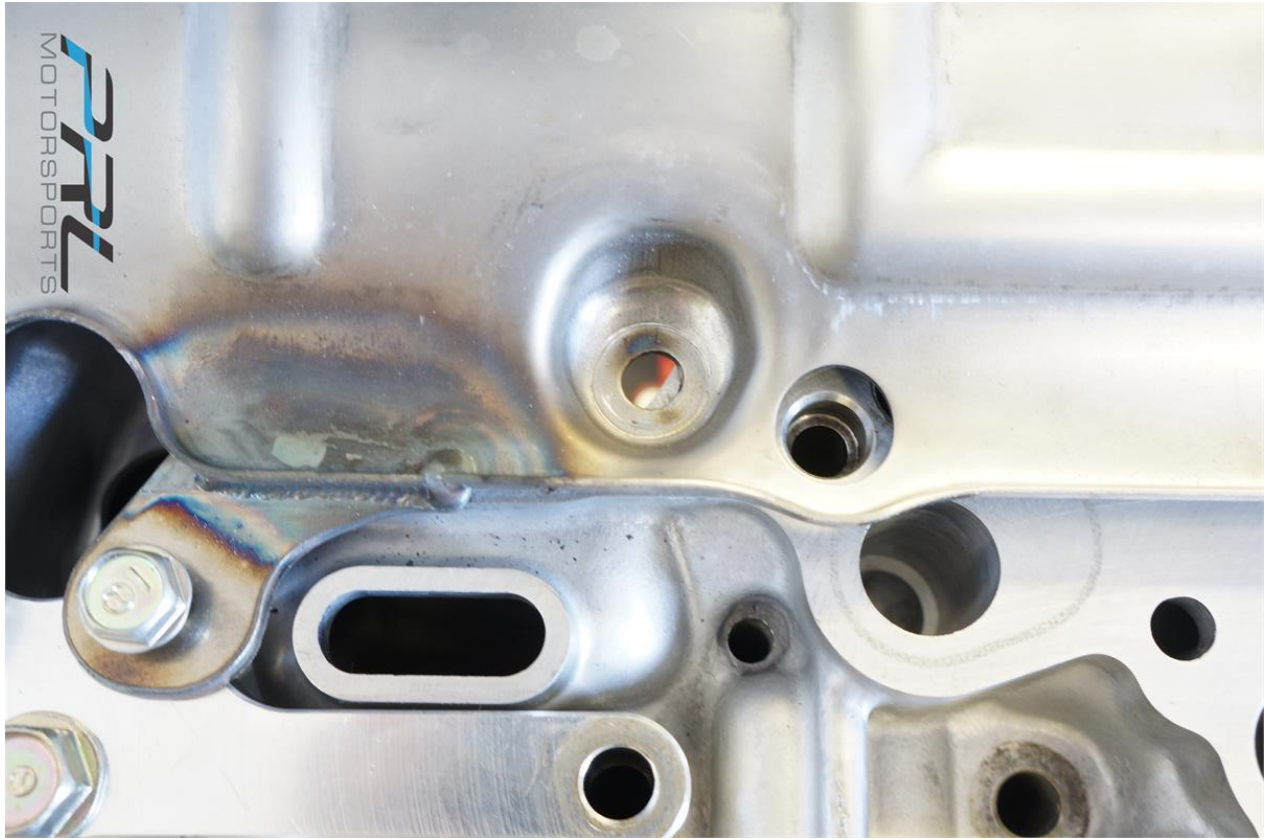


Install the oil pump mount using the correct length bolts.



Making sure the main girdle is clean and free of all debris, the oil pump and windage tray can now be installed using a mixture of PRL and customer supplied hardware.







The factory K24Z oil filter housing can now be relocated (using the supplied oil filter relocation kit) to the top of the engine block where other K-Series utilize the oil filter housing.

