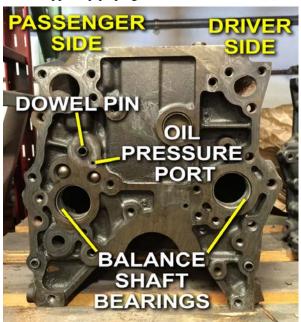
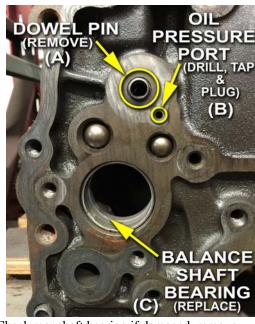


## 3RZ Balance Shaft Removal Kit - Part #1015050

- 1. Remove all chains, sprockets, and counterbalance shafts etc... from engine.
- 2. Remove the Dowel pin (A) above balance shaft opening (Passenger's side of block). THIS WILL NOT BE RE-USED.
- 3. Using the supplied drill bit, drill out the Oil Pressure Port (B). Then using the supplied 1/16" tap, Tap block so that plug will fit flush into block. ALWAYS USE TAP LUBE AND TAP WITH CAUTION.
- 4. Be sure to clean all metal shavings from engine. Use a shop vac if installation is done in the truck.
- 5. Install supplied pipe plug into Oil Pressure Port (**B**) using Teflon sealant or Loctite.





- 6. Use supplied driver to remove front (only) shaft bearings (C). Check rear shaft bearing if damaged, remove.
- 7. Deburr block and then proceed to install the new Aluminum bearing insert into balance shaft block holes. THIS IS TO BLOCK OIL FLOW. \*\*FOR EASE OF INSTALL: Place new Aluminum Bearing Inserts in the freezer for approx. 30 min. prior to installation.\*\*
- 8. Install the new billet oil jet where tensioner was removed (driver's side of block). Longer bolt (M8-1.25x40mm) goes on the guide rail mount location (**D**). (Stock studs must get removed and will not get re-used)
- 9. Torque oil jet bolts to 14 Ft-Lbs.
- 10. Install cam timing chain and guides according to factory service manual.
- 11. DO NOT RE-INSTALL ANY COUNTER BALANCE COMPONENTS.

If you have questions call our tech support line 928-855-6341



