

## 2.0 and 2.4 liter Mitsubishi engine Balance Shaft Elimination kit

### "Installation Instructions"

Kit Part Number: BK-2

**From Preferred Components, Inc.**

**courtesy of [www.PartsDinosaur.com](http://www.PartsDinosaur.com)**

*Warning: This kit is "designed for installation by a professional" engine rebuilder.*

*If this kit is being installed due to failed balance shafts, then complete internal engine cleaning of all metal debris is absolutely necessary. Some rear-wheel drive applications may experience some undesirable harmonics (vibrations) after installation of this kit. This is normal and OK. The only function of the balance shafts is to "cover up" the natural harmonics of this engine.*

- 1. Read the above warning first. Then, remove the oil pump and unbolt the balance shaft from the oil pump. "Save the Bolt".*
- 2. Using this bolt, install the oil pump plug from our kit (the plug that looks like the balance shaft nose) into the location where the original balance shaft nose was. Be sure to use a thread lock chemical of some sort and torque this bolt to 25 -29 Ft. Lb. of torque.  
Caution: Due to variances in the casting of oil pump housings it might be necessary to remove some material to insure a proper fitting of this plug. allow .005"-.006" clearance  
*Between New Plug o.d. & Housing Bore,**
- 3. Remove the upper balance shaft and the balance shaft bearings (bushings). The small bushing from our kit is to be installed "step first" in the rear bore where the old bearing was removed from. Be sure to fully cover the blocks oil feed hole.*
- 4. Install the front bushing "step first" into the bore that the front balance shaft bearing was removed from. Be sure to fully cover the block oil feed hole.*
- 5. Using a good sealant, install the soft plug from our kit in the upper balance shaft hole in the timing cover. This completes your installation of the conversion parts. Reassemble the engine as usual. Use 11 - 13 Ft. Lb. of torque for the oil pump housing bolts.*