

### Check Compression Release

Model Series 104700, 161400, 21A800, 21B800, 260700, 261700, 284H00, 285H00, 286H00, 28AH00, 28BH00, 28CH00, 28N700, 28P700, 28Q700, 28S700, 28U700, 28W700, 287700, 31E700, 31F700, 31G700, 31H700, 31J700, 31K700, 31L700, 31M700, 310700, 311700, 312700, 313700

Check compression release (1) mechanism for wear, nicks, and freedom of movement, Fig. 8

Lobe reject dimensions with weight (2) against shaft (3) are shown in Table No. 4, page 18.

Replace camshaft if worn to less than specifications.

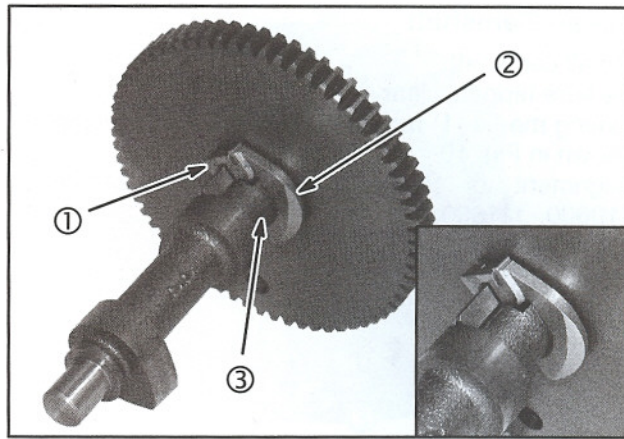


Fig. 8

### Polish Crankshaft Journals – All

Polish crankshaft with crocus cloth until polish lines (1) are uniform over entire journal. Direction of polish lines must be as shown in Fig. 9.

It is important that crankshaft journal be thoroughly cleaned. Wash journal with a solvent such as kerosene to remove emery residue.

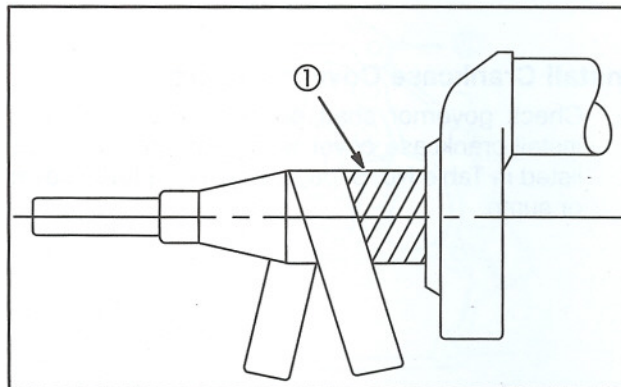


Fig. 9

## INSTALL CRANKSHAFT and CAMSHAFT

### Install Crankshaft

1. Install intake and exhaust valve tappets.
2. Select Tool #19356, Seal Protector based on size of magneto seal journal from Table No. 5, page 18.
3. Insert seal protector into magneto seal.
4. Supporting both ends of crankshaft, install in cylinder.

**NOTE:** Before crankshaft can be installed on Model Series 21A800, 21B800, 284H00, 285H00, 286H00, 28AH00, 28BH00, 28CH00, 28N700, 28P700, 28Q700, 28S700, 28U700, 28W700, 287700, 31E700, 31F700, 31G700, 31H700, 31J700, 31K700, 31L700, 31M700, 310700, 312700, 313700, 311700, Synchro-Balance® system must be assembled to crankshaft, Section 12.

5. Install connecting rod on crankshaft, Section 9.
6. Install slip fit timing gear (if removed) with inner chamfer toward crankpin. This assures timing mark will be visible.
7. Install counterbalance shaft and gear, Section 12.