

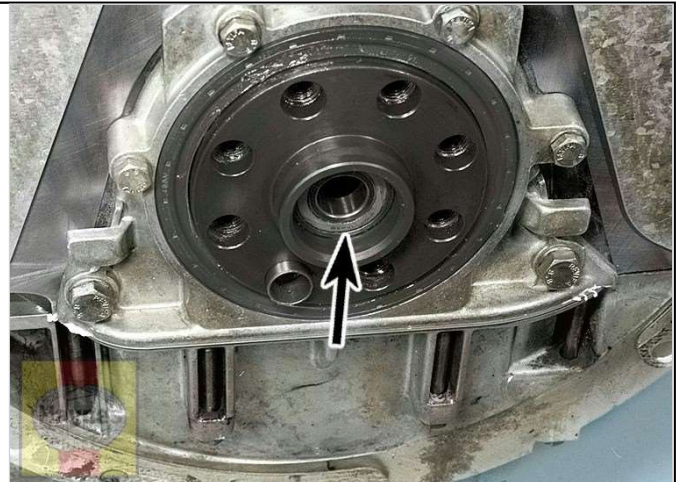
**Haynes**  
shows you how

**BMW 3-Series and Z4 (99-05) Includes 2006 325ci/330ci Coupe and Convertible models Haynes Online Manual.**

## 16 Crankshaft pilot bearing - replacement

1 On manual transmission models, a bearing is installed in the end of the crankshaft to support the end of the transmission input shaft (see illustration) .

### 16.1 Crankshaft pilot bearing



2 Special pilot bearing pullers are available at most auto parts stores. If one is not available, this alternative method works:

3 Remove the flywheel (see [Section 15](#) ).

4 Pack the space behind, and the center bore, of the bearing with general purpose grease.

5 Position a metal rod or bolt in the entrance of the bearing bore. The rod/bolt diameter should be just less than the diameter of the bearing bore. Cover the rod near the flywheel with a rag to catch any grease that might squirt out.

6 **Warning:** *Wear eye protection before performing this Step.* Strike the end of the rod/bolt with a hammer several times (see illustration) . As the rod/bolt is struck, the compressed grease forces the bearing from position. Continue until the bearing is removed.

**16.6 Use grease and a close-installing rod to extract the pilot bearing**



7 Thoroughly clean the bearing housing in the end of the crankshaft.

8 Tap the new bearing into position, up to the stop, using a bearing driver or socket on the bearing outer race.

9 Reinstall the flywheel (see [Section 15](#) ).

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