McCULLOCH

SERVICE BULLETIN #1174

SUBJECT: NEEDLE BEARING AND BUSHING ASSEMBLY, P/N 56934-SERVICE INSTALLATION KIT, P/N 53334

MODEL: D-30, D-36, 1-40, 1-41, 1-42, 1-50, 1-51, 1-60, 1-61, 1-62, MC-5, MC-6, MC-7 DATE: 5/8/62

A new Main Needle Bearing and Bushing Assembly, P/N 56934, is now available for service replacement in the listed engine models.

Due to the close tolerance alignment of the bearing and bushing, relative to the crankcase bore, a Bearing and Bushing Installation Service Kit is available and should be used whenever replacement of either the bushing or bearing is required.

CONTENTS OF KIT

Item No.	Part Number	Nomenclature	Quantity
1	56930	Guide - Lower	1
2	56931	Guide - Upper	1
3	56932	Pin - Knockout/Installation	1

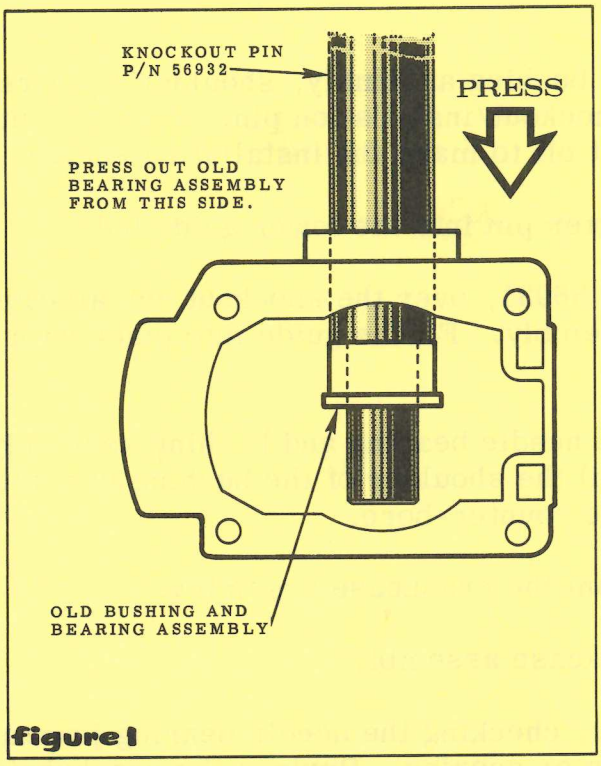


figure 1

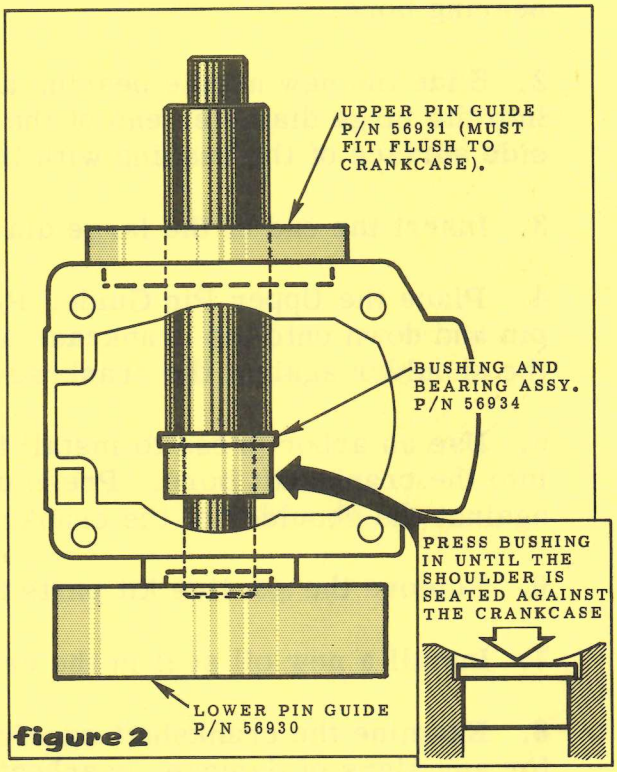


figure 2

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The instructions for removing a worn or damaged needle bearing and bushing assembly from a crankcase assembly, are given below:

1. Completely disassemble the engine.

2. Clean all parts thoroughly, washing them in solvent to remove all traces of dirt and grit. Dry them with compressed air whenever possible.

3. Remove the crankshaft oil seal from the crankcase assembly.

4. Use the large diameter end of the Knockout/Installation Pin, P/N 56932, to press out the old bearing and bushing assembly (see figure 1).

INSTALLATION OF NEEDLE BEARING AND BUSHING ASSEMBLY, P/N 56934

Before installing a new needle bearing and bushing, inspect the crankcase bushing bore for signs of damage, such as nicks or cuts. Smooth out any that are found with a small file or crocus cloth. Be sure to remove all filings before starting to install the new bushing and bearing assembly.

To install the new Main Needle Bearing and Bushing Assembly, P/N 56934, use the service kit as follows: (Refer to Figure 2)

1. Insert the boss of the Lower Pin Guide, P/N 56930, in the crankcase bearing bore.

2. Slide the new needle bearing and bushing assembly, shoulder end first, into the large diameter end of the knockout/installation pin. Coat the outside surface of the bushing with light oil to make the installation easier.

3. Insert the end of the large diameter pin into the lower guide hole.

4. Place the Upper Pin Guide, P/N 56931, over the knockout/installation pin and down onto the crankcase assembly. Fit the guide into place with the shoulder against the crankcase.

5. Use an arbor press to install the needle bearing and bushing assembly into the crankshaft bore. Press until the shoulder of the bushing is seated against the shoulder of the crankcase counter-bore.

6. Remove the service kit parts from the crankcase assembly.

7. Install a new oil seal in the crankcase assembly.

8. Examine the crankshaft carefully, checking the needle bearing journal for any signs of damage, overheating or scoring. Replace the crankshaft if damage is found.

9. Examine the rest of the engine parts for damage and replace them as needed. Reassembly the engine, using new gaskets and seals.