

## USE REAR MAIN BEARING OIL SEAL INSTALLER TO AVOID LEAKS

**Plus** A RECENT analysis of specific cases of rear main bearing oil seal leaks has indicated that seals are still being damaged during installation in the field. Damage to the seal occurs when the "shoehorn" oil seal installer, described both in the April, 1963, *Serviceman*, and on page 9-30 of the 1964 Cadillac Shop Manual, is not used.

*Rear main bearing seal installation cannot be properly made without the use of this simple, easily made tool. Avoid costly comebacks and owner dissatisfaction by making sure that your service department has a "shoehorn" tool and that it is used on every rear main bearing seal installation.*

Figure 1 shows two seal halves. One seal is intact while the backbone of the other is damaged because of apparent failure to use the special "shoehorn" tool. Observe the portion of damaged seal that has been scraped off.

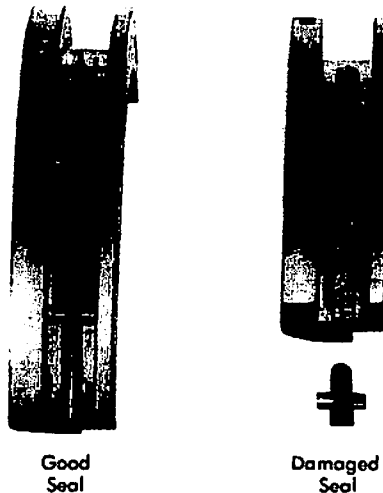


Fig. 1

When installing a new rear main bearing oil seal, this special installer protects the backbone or outer diameter of the seal from scraping against the sharp edges of the bearing cap and the cylinder block. The tool, fig. 2, can be made out of a metal banding strap or similar shim stock of .020" thickness.

To install lower half of seal into the bearing cap, slide either end of seal into position at one end of bearing cap and place tool on seal land at other end of bearing, fig. 3. Make sure the seal is positioned over the bearing ridge and the lip of the seal is facing forward (car position).

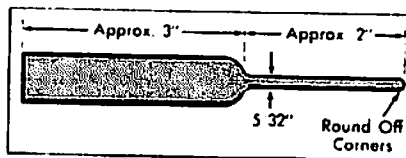


Fig. 2

Hold thumb or finger (left hand shown in fig. 4) over end of seal that is flush with split line to prevent it from slipping upward, and push seal into seated position by applying pressure to the other end.

Make sure seal is pressed down firmly and is flush on each side to avoid possibility of a leak at the seal split line. Avoid pressing on lip as damage to sealing edge could result.

To install upper half of seal in cylinder block (with crankshaft in car), position "shoehorn" on land of block. Start seal into groove in block with

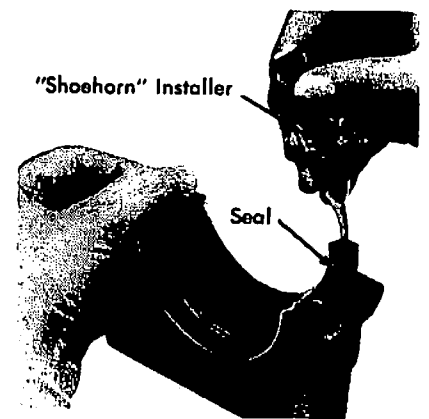


Fig. 3

lip facing forward and rotate seal into position, using care not to distort seal.

Do not press on lip or sealing edge of seal may be damaged. Also, both ends of seal should be flush at the seal split line to avoid leaks.

If necessary, Lubriplate, or its equivalent, may be used to facilitate installation of both lower and upper half of seal. Do *not* use silicone or an oil leak may result.



Fig. 4