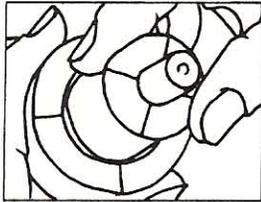




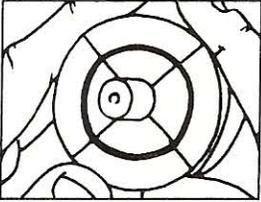
OPERATING INSTRUCTIONS

Camshaft Bearing Tool

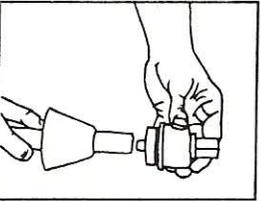
Removal Instructions



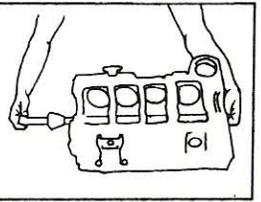
1. Select the proper expanding driver from the driver range table. Place expanding driver onto expander assembly. To install or remove expanding driver, always push or pull from the ends. Pressure on the outside diameter may cause a bind against the rubber expander sleeve. Be sure the smooth side of the rubber sleeve is coated with rubber lubricant to facilitate installing the driver on the expander.



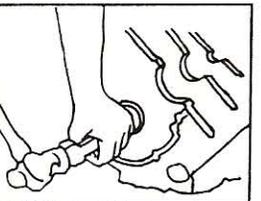
2. Check to insure that separation lines between segments of expanding driver line up with separation lines on the expander assembly as above.



3. Place nylon cone over the driving bar. Then select the proper driving washer from the driver range table. It is important to use the proper driver washer to prevent damage to the expander assembly. Place the driving washer over the threaded portion of the expander assembly with driving washer into driving bar. The driver bar extension may be needed for removal of the rear bearings.

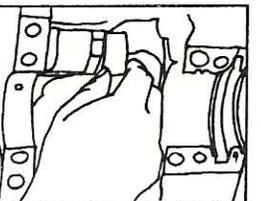


4. Operate tool from front of block. Insert into rear bearing and tighten until snug in bearing.
5. Place nylon cone in first bearing housing and drive bearing out. Loosen driver assembly to relieve pressure and pull tool back through the next bearing to be driven. Repeat above steps until all bearings are removed.

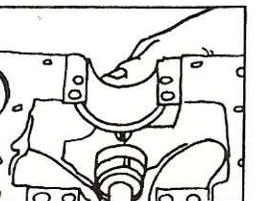


NOTE: On some blocks the camshaft is inaccessible except from either end. In this case you must use a socket and extension to enlarge and reduce the expander assembly as you remove or install each bearing.

Installation Instructions



1. Reduce the expander assembly to its smallest size before installing bearings. Check the separation lines for proper alignment. Insert tool from the front of the block through the cam bearing housing until immediately in front of the rear bearing housing. Place bearing on expanding driver and tighten until bearing is held firmly. Check the manufacturer's specification to make sure the oil holes in the bearing are positioned in the proper location.



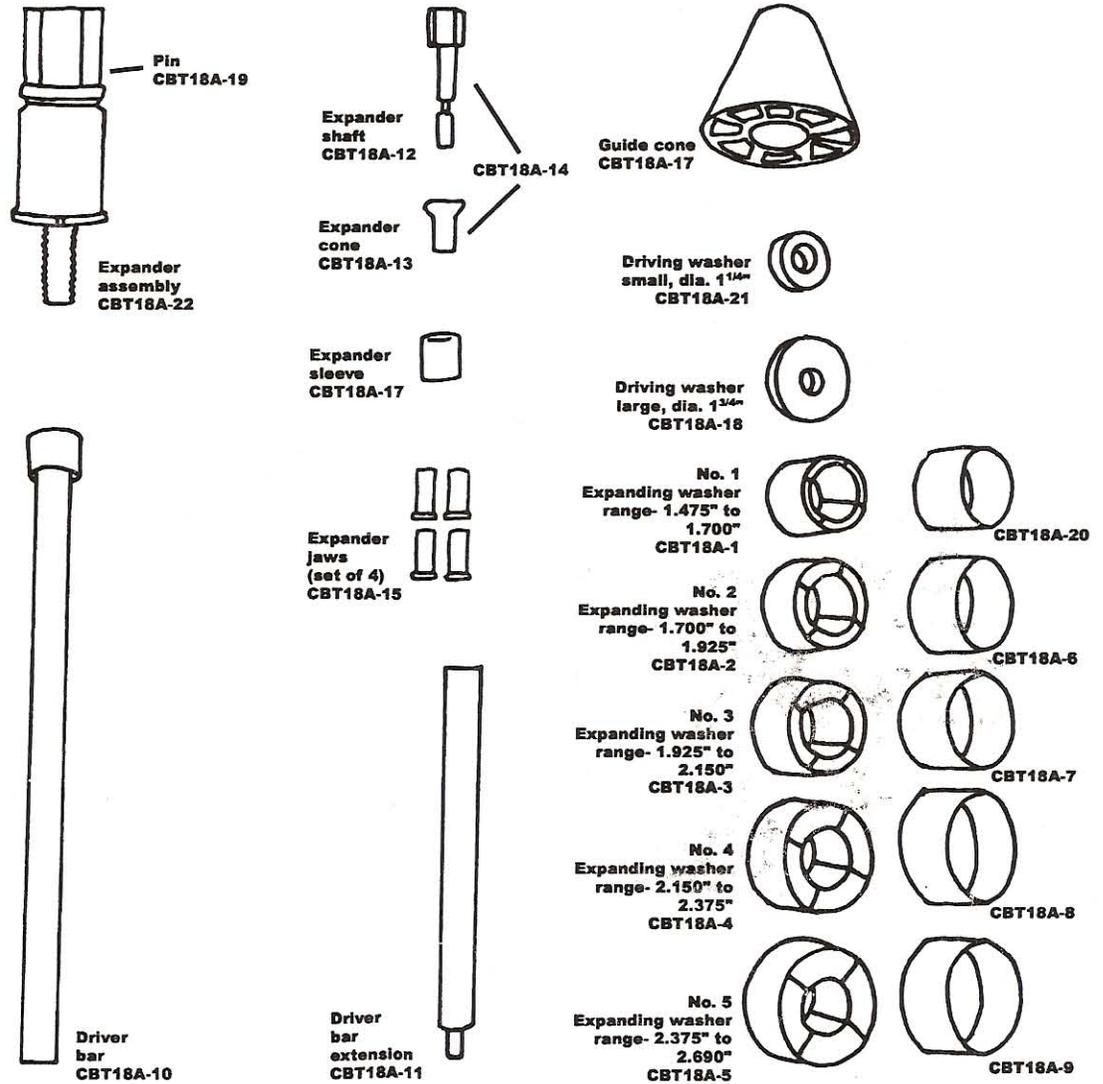
2. Hold guide cone in place in number one housing and drive bearing. Repeat above steps until all bearings are driven except the number one bearing. To drive the number one bearing, operate from the rear of the engine using the guide cone in the rear housing.

NOTE: The alignment of cam bearing bores can change as an engine block ages and in some cases the bores can get out of round. When new bearings are installed in such a block, the camshaft may be difficult or impossible to install properly. Small amount of warpage may be corrected by scraping the bearing but large amounts need to be corrected by align boring or honing. Either of the above conditions may make cam bearings difficult to install and may result in damaged bearings.



PARTS LIST

Camshaft Bearing Tool



Driver Range Table

Bearing size I.D.	Expanding driver	Use washer
1.125 to 1.475 (28.5mm-37.47mm)	Expander Assembly	small
1.475 to 1.700 (37.47mm-43.18mm)	No. 1	small
1.700 to 1.925 (43.18mm-48.90mm)	No. 2	large
1.925 to 2.150 (48.90mm-54.81mm)	No. 3	large
2.150 to 2.375 (54.81mm-60.33mm)	No. 4	large
2.375 to 2.690 (60.33mm-68.33mm)	No. 5	large

NOTE: This tool has two sets of rubber sleeves supplied with it for the expanding drivers. The brown sleeves are used when driving thin wall bearings (.065). The black sleeves should be used when driving thick wall bearings (.090).