

## FLT WHEEL BEARINGS

For several months during early 1981 production, FLT WHEEL NEEDLE BEARINGS, Part No. 41119-79, were installed with the seal inward, to a critical depth. A special tool was used at the factory to achieve this installation.

Since this installation cannot be easily duplicated by a dealer we do not recommend use of original style bearing, Part No. 41119-79.

We recommend use of the new style bearing, Part No. 9116. This bearing must be installed with the special WHEEL BEARING INSTALLATION TOOL, Part No. 94440-81.

### NOTE

The WHEEL BEARING INSTALLATION TOOL, Part No. 94440-81 was furnished to all dealers with the "052" Recall campaign.

The original style bearing, Part No. 41119-79, is still used in the wheel of the classic sidecar, used with FLH model motorcycles.

## INSTALLATION PROCEDURE

Installation of the new style BEARING, Part No. 9116, is the same for front or rear wheels. Refer to the 1981 FLT SERVICE MANUAL, Part No. 99483-81, for complete wheel removal and installation procedures, as applicable.

### NOTE

Removal of the left disc from the front wheel is not necessary. An impact tool should be used to remove right disc screws.

### NOTE

A FRONT WHEEL AXLE, Part No. 43937-79, will be required to perform bearing and seal installation in either wheel.

1. See Figure 1. Install bearing as follows:

- A. Place 2 1/4 in. diameter pilot on front wheel axle, with knurled side against axle head.
- B. Install axle and pilot assembly through wheel hub, butt 2 1/4 in. diameter pilot against hub within counterbore.
- C. Lightly coat outside diameter of inner race, Part No. 41118-81, with special grease and insert into cavity of bearing pilot.

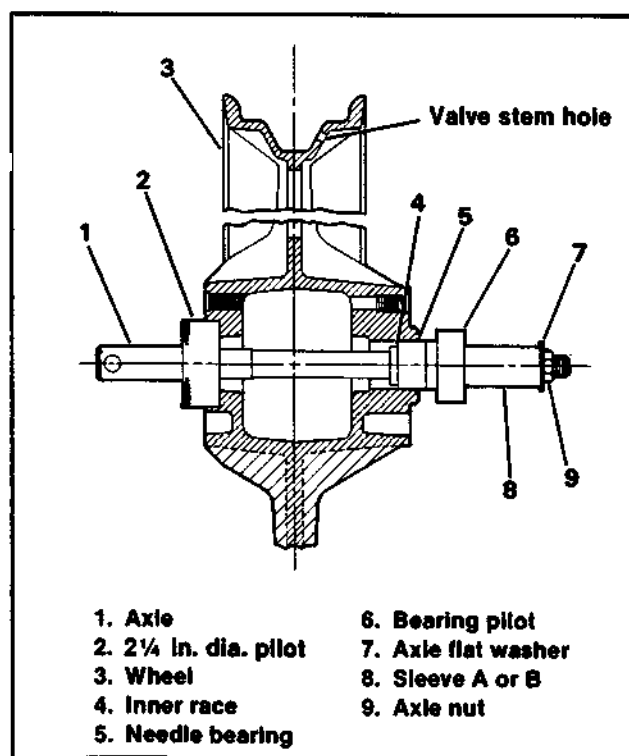


Figure 1. Bearing Installation

ROUTING:	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	CHIEF MECHANIC	MECHANIC NO. 1	MECHANIC NO. 2	MECHANIC NO. 3	MECHANIC NO. 4	RETURN THIS TO:
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### NOTE

The special grease is same as that supplied with the "052" Recall Campaign. It is also available under Part No. 99855-80 (two 8 oz. tubes).

- D. Pack new NEEDLE BEARING, Part No. 9116, with special grease, install over inner race with lettered side against bearing pilot. Place a ridge of special grease around edge of bearing opposite numbered side.

### WARNING

The bearing must be installed with the flat/lettered side against bearing pilot. Pressing wrong side of bearing will damage bearing case and destroy bearing.

Do not pound bearing, axle or pilot to install bearing.

Keep dirt and contaminants away from bearing, inner race and seal.

- E. Slide bearing pilot and bearing assembly onto axle; followed by Sleeve A, axle flat washer and axle nut.

Carefully tighten axle nut until it bottoms on the axle threads.

- F. Remove axle nut and washer, replace Sleeve A with Sleeve B. Replace axle washer and axle nut, tighten until bearing pilot contacts wheel hub.

- G. Remove axle nut, washer, sleeve, bearing pilot and inner race. Carefully remove 2 1/4 in. diameter pilot and axle.

2. See Figure 2. Install SEAL, Part No. 12047, as follows:

- A. Slide bearing pilot over axle, so axle head is within cavity of bearing pilot.
- B. Carefully place seal over axle, with numbered side facing bearing pilot. Place inner race over axle and carefully slide into seal.

- C. Carefully insert assembly through valve stem side of wheel and through 2 1/4 in. diameter pilot.

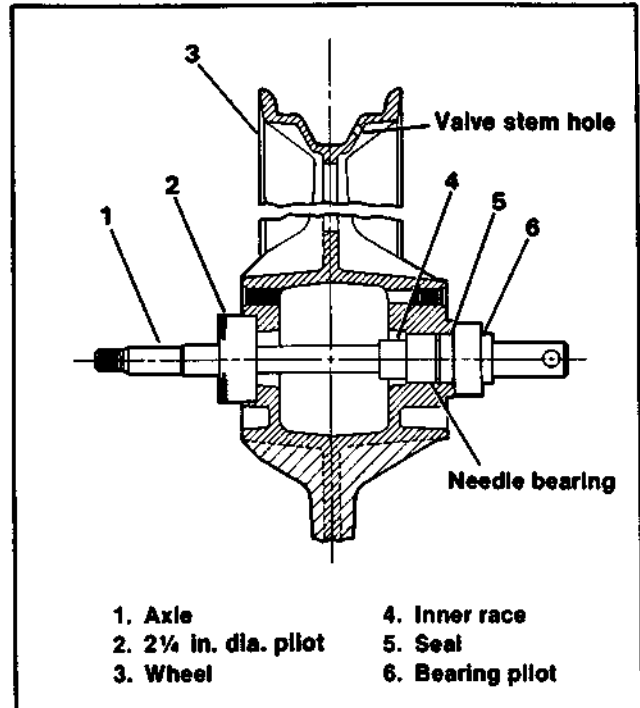


Figure 2. Seal Installation

- D. With the 2 1/4 in. diameter pilot in place, within wheel hub, carefully tap the axle head until bearing pilot is flush against wheel hub.
- E. Remove axle and pilots, leave inner race within bearing and seal.
3. Install the SPACER, Part No. 43644-81, from side opposite bearing with flat side against inner race. Use only moderate thumb pressure as far as it will go in.

### NOTE

The inner race will project slightly from the wheel hub.