



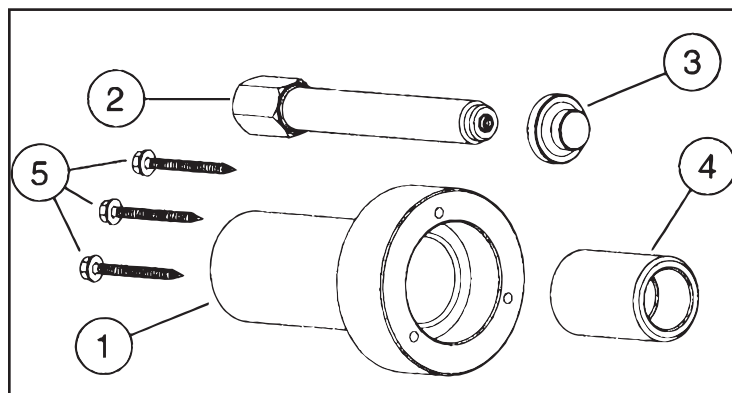
A Division of Thiessen Products, Inc.

INSTRUCTION SHEET FOR TOOL #775

JIMS CRANKCASE MAIN SEAL INSTALL / REMOVAL TOOL

For TC-88 and TC-96 main seal installation and removal.

The rider's safety depends upon the correct installation of this kit. Use the appropriate service manual procedures. If the procedure is not within your capabilities or you do not have the correct tools, have a Harley-Davidson dealer perform the installation. Improper installation of this kit could result in death or serious injury.

**FIG. 1**

PARTS AVAILABLE SEPARATELY

No.	Qty.	Description	Part No.
1	1	REMOVER/INSTALLER TOOL	775-1
2	1	SCREW	1024
3	1	SPROCKET SHAFT PLUG	995-3
4	1	SPROCKET SHAFT CAP	775-2
5	1	SCREW, #6 X 1-1/2", SELF TAPPING	1173

Table. 1

NOTE: This instruction sheet references service manual information. A service manual for your model motorcycle is required for this installation.

Kit Contents

See **Fig 1** and **Table 1**.

NOTE: PLEASE READ ALL INSTRUCTIONS COMPLETELY BEFORE PERFORMING ANY WORK!
IF YOU DO NOT KNOW WHAT YOU ARE DOING, DO NOT DO IT!

No information in this instruction sheet pertaining to motorcycle repair is represented as foolproof or even altogether safe. Even something safe, done incorrectly or incompletely can and will backfire. You and only you are responsible for the safety of your repair work and for your understanding the application and use of repair equipment, components, methods and concepts.

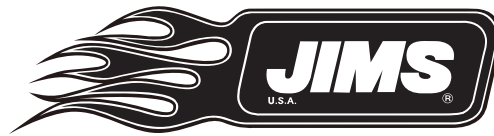
Each and every step this tool is designed to do must be carefully and systematically performed safely by you. All information listed in this instruction sheet has been tested, re-tested and used daily in JIMS® Research and Development Department.

ALWAYS WEAR SAFETY GLASSES OR OTHER FACE AND EYE PROTECTION SUCH AS FULL FACE SHIELD. JIMS® IS NOT RESPONSIBLE FOR DAMAGE, INJURY, OR YOUR WORK. JIMS® IS NOT RESPONSIBLE FOR THE QUALITY AND SAFETY OF YOUR WORK.

CAUTION: WEAR SAFETY GLASSES OVER YOUR EYE'S.
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Performance Parts For Harley-Davidson Motorcycles

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INSTRUCTION SHEET FOR TOOL #775

REMOVAL OF MAIN SEAL

1. Remove the primary cover and drive components using the appropriate H-D service manual.
2. See **Fig 1** and **Table 1**. Select the appropriate protection device for the end of the sprocket shaft based on your engine:
 - a. TC-88 based engines, thread the sprocket shaft cap No. **775-2** (4) onto the end of the sprocket shaft finger tight.
 - b. TC-96 based engines, slide the sprocket shaft plug No. **995-3** (3) into the end of the sprocket shaft screw.
3. Slide the installer/remover tool main body No. **775-1** (1) over the end of the sprocket shaft screw No. **1024** (2) with the large end toward the crankcase. The large end should sit snugly against the crank case.
4. Carefully install the three self tapping screws No. **1173** (5) through the three holes in the tool main body. Using firm pressure and the appropriate sized nut driver, turn the screws into the seal until the screw punctures through the old seal. Only perform this operation by hand and stop as soon as the screw has pierced the seal and engaged by 1 revolution. Adjust screw depth so that the clearance between the head of the screws and the main tool body is consistent so that the seal is pulled on evenly.

NOTE: Installing the screws too deep into the seal can cause the screw to contact the bearing cage resulting in damage.

5. Install the tool screw No. **1024** (2) into the tool main body. Thread it in by hand until the screw contacts the sprocket shaft protective device and the clearance is taken up between the tool main body and the heads of the self tapping screws.

NOTE: Apply graphite lubricant sparingly to the threads of the tool screw to prolong the service life and enhance smooth operation.

6. Using a 3/4" hand wrench, tighten the tool screw No. **1024** (2) to remove the seal.

INSTALLATION OF SCREW

1. Apply a light coating of Assembly Lube to the inside lip of the oil seal and slide the seal onto the sprocket shaft with the lettering on the oil seal facing outward. Slide the seal up to the crankcase so the outer edge of the seal body squarely rests against the crankcase bore.
2. Select the appropriate protection device for the end of the sprocket shaft based on your engine. TC-88 based engines, thread the sprocket shaft cap No. **775-2** (4) onto the end of the sprocket shaft finger tight. TC-96 based engines, slide the sprocket shaft plug No. **995-3** (3) into the end of the sprocket shaft.
3. Slide the Installer/Remover tool main body No. **775-1** (1) over the end of the sprocket shaft with the large end toward the crankcase.
4. With one hand holding the tool main body against the seal, lightly tap the end of the tool main body with a rubber mallet or plastic faced hammer to drive the oil seal into the bore. Drive the oil seal into the bore until the tool main body seats against the crank case.
5. Reassemble drive components and primary cover using the appropriate H-D service manual.

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