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Instruction Sheet For Tool No. 939 & No. 958

Late Style Sealed Wheel Bearing Puller / Installer

No.**939** *Use on all 2000-present Twin Cam® models, 2000-present Sportster® models, and 2002-present V-Rod.*

No.**958** *Use on all 2007-present wheels using 25mm wheel bearings, with or without ABS*

Note: *Read entire instruction sheet before performing work.*

- ***Remove wheels and prep per H-D® service manual.***
- ***Refer to the exploded detail drawing for fitment of No. 1042-1, No. 1042-2, and No. 1042-8 bearing puller.***
- ***Refer to the exploded detail drawing for fitment of No. 1042-4, No. 1042-5, and No. 1042-9 bearing installer.***

Removal Notes:

1. On models with a hub plate, remove hub plate from wheel on opposite side of front brake rotor.
2. Some hubs may not provide adequate support for the main puller body. In these cases, center a used brake rotor over the the hub to support the puller, or use JIMS No. 913 support plate for late cast front wheels with open hub.

Tools:

- 11/16" Wrench / socket
- 5/8" Open end wrench
- Torque wrench reading Ft/lbs + inch/lbs
- 3/4" Box wrench & socket
- 3/8" Allen
- 1- 1/8" Open end wrench
- Heat gun
- Lubricant
- Ratchet
- JIMS No. 913 Support plate for late cast wheels

A. Front Wheel Bearing Removal

1. Place the wheel vertically in a vice. (Protect the rim from being marred in the vice)
2. Assemble the remover tool. See parts list for the tool lubrication locations before using. Always replace both bearings in hub.
   A. Install No. 1042-1, 1042-2, or No. 1042-8 into bearing per bearing I.D. used. See parts list for the size reference. Install puller tool into bearing by hand or use a rubber mallet to push through bearing I.D. Stop pushing on bearing puller as soon as it has cleared the inside of bearing race. You should hear and feel a slight click.

Note: Do not damage the threaded end of tool with hard face hammer.

   B. Place bridge No. 1042-3 over bearing puller with the fingers of bridge facing the wheel. Lightly oil all threads.
   C. Place the large brass washer No. 1099 and large nut No. 1098 onto the puller and hand tighten the nut until it stops at the top face of bridge.

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3. Removing Wheel Bearing
   A. Insert the bearing expander No. 1042-7 through the other side of wheel bearings, and through the bearing puller. Apply a small amount of oil to the taper at the hex end of expander.
   B. Torque the expander nut No. 7515 to 100 in/lbs with a 11/16" wrench or socket at the same time holding the other side of expander, by reaching through other side of wheel with a 3/8" Allen wrench.
   C. Align the bridge support fingers over the bearing to be removed, centered over bearing.
   D. Use a 5/8" open-end wrench to hold the bearing puller No. 1042-1, 1042-2, or 1042-8 depending on bear ing size, and with a 1-1/8" open end wrench, turn the puller nut No. 1098 until the bearing is pulled free from the wheel hub.

Note: Do not turn the bearing puller with the 5/8" wrench, just hold it from turning.

If you feel a resistance and the bearing is not pulling out of the hub while turning the 1-1/8" wrench, you will need to apply heat to the hub area surrounding the bearing. Before you apply heat, clean all dirt, grease, or oil around hub where you will apply 2 or 3 temperature stickers No. 899 on the circumference of the hub. Apply indirect heat using a heat gun as close to the bearing area without directly heating stickers. The heat from the metal around the stickers will eventually turn sticker black when at 200° to 210°. At that time, cut the heat and attach the bearing tool to perform the removal.

Do not exceed 210 degrees.

Note: Remove wheel bearing spacer from the I.D. of wheel hub.

Repeat the above steps for the bearing on the other side.

B. Rear Wheel Bearing Removal

Note: *Remove rear pulley before doing any rear wheel bearing removal. Refer to H-D® Service Manual for pulley removal instructions*. Rear wheel bearing removal is the same as above by using the right size puller. Always replace both bearings in hub.

Note: *See parts list for sizes.*

C. Front Wheel Bearing Installation

Installing Notes:

1. Keep ABS encoder bearings away from all magnetic fields (magnetic parts dish, magnetic base for dial indicator) or damage will occur.
2. Install the primary brake disc side bearing first. ABS equipped motorcycles use a special encoder that's greenish/ tan color. Install this bearing on the primary disc side and a standard bearing (black) on the opposite side.
3. On front dual disc wheels, install bearing on the left side first.

1. Assemble Installer
   a. Apply oil to the threads of bolt No. 2138 & nut No. 2136, and place backing plate No. 1042-6 over bolt No. 2138.
   b. Insert this assembly through the wheel.
   c. From the other side of wheel (the side you will be first installing the new bearing from) lube O.D. of your new bearing & the I.D. of wheel with anti-seize, and place the new bearing (letter side of bearing facing outboard away from the wheel) over bolt No. 2138 followed by bearing installer No. 1042-4 for 1" I.D. bearing, No. 1042-5 for 3/4" I.D., or No. 1042-9 for 25mm bearing with the small diameter of installer slipped inside the new bearing.
   d. Next place bearing No. 2010, washer No. 2038 & oiled nut No. 2136 onto bolt.

2. Installing Bearing

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a. Thread the nut down until bearing is aligned straight into it's bore, and with one 3/4" box-end wrench, one 3/4" socket and torque wrench, tighten nut slowly making sure bearing is going in straight and bearing installer is staying centered over the bearing.
b. Tighten nut to no more than the required torque applied to the axle nut. (see H-D® Service Manual for torque specifications.)

3. Installing Right Side Bearing
   a. Remove installer tool; leave backing plate No. 1042-6 on bolt No. 2138, and place bolt & backing plate through the newly installed bearing.
   b. Reinstall the wheel spacer from the original wheel bearing assembly over bolt No. 2138. Sleeve must make contact with the inside of the newly installed bearing.
   c. Install the next new bearing repeating the steps outlined under (C), steps 1 & 2, making sure bearing installer is staying centered over the bearing.

D. Rear Wheel Bearing Installation

Rear wheel bearing installation is the same as above except you install the right wheel bearing first on the rear wheel. Reinstall pulley per H-D® Service manual.

E. Reinstall Wheels

Refer to your H-D® Service Manual.

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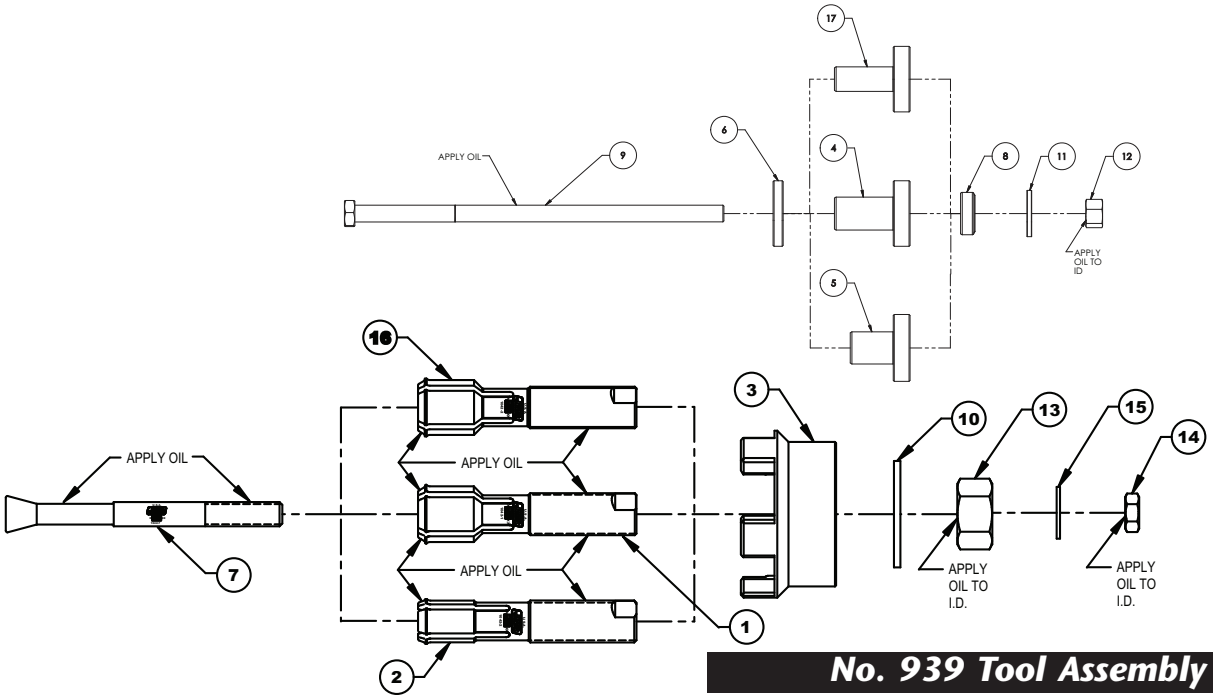

No. 939 Tool Assembly

LATE SEALED WHEEL BEARING REMOVER AND INSTALLER KIT

No. 958

25MM WHEEL BEARING REMOVER AND INSTALLER TOOL

PARTS AVAILABLE SEPARATELY

NO.	QTY.	DESCRIPTION	PART NO.
1	1	REMOVER 25MM	1042-8
2	1	INSTALLER 25MM	1042-9
3	1	INSTRUCTION SHEET	1042-IS

PARTS AVAILABLE SEPARATELY

NO.	QTY.	DESCRIPTION	PART NO.
1	1	WHEEL BEARING PULLER (1.00" ID)	1042-1
2	1	WHEEL BEARING PULLER (.750" ID)	1042-2
3	1	MAIN BODY, PULLER	1042-3
4	1	BEARING INSTALLER, (1.00" ID)	1042-4
5	1	BEARING INSTALLER, (.750" ID)	1042-5
6	1	INSTALLER BACKING PLATE	1042-6
7	1	EXPANDER DOWEL	1042-7
8	1	BEARING	2010
9	1	BOLT, 1/2-13 X 12"	2138
10	1	BRASS WASHER	1099
11	1	FLAT WASHER. 1/2 SAE	2038
12	1	NUT, 1/2-13	2136
13	1	NUT, 3/4-16	1098
14	1	NUT, 7/16-14	7515
15	1	WASHER, 7/16 SAE	2037
16	1	REMOVER, 25MM	1042-8
17	1	INSTALLER, 25MM	1042-9
18	1	TEMPERATURE STRIPS (30)	899
19	1	INSTRUCTION SHEET	1042-IS

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