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 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
- 3/4” Box wrench & socket
- 5/8” Open end wrench
- 3/8” Allen
- Heat gun
- Torque wrench reading Ft/lbs + inch/lbs
- 1-1/8” Open end wrench
- 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.

CAUTION: Wear safety glasses. Excessive force may damage parts!
See JIMS® catalog for Hundreds of top quality professional tools.
The last tools you will ever need to buy.
3. Removing Wheel Bearing
   A. Insert the bearing expander No. 1042-7 through the other side of wheel bearings, and through the bear-
      ing 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 bear-
   ings 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 bear-
      ing.
   d. Next place bearing No. 2010, washer No. 2038 & oiled nut No. 2136 onto bolt.

2. Installing Bearing
**INSTRUCTION SHEET FOR TOOL NO. 939 & NO. 958**

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.

**WARRANTY**

All JIMS® parts are guaranteed to the original purchaser to be free of manufacturing defects in materials and workmanship for a period of 6 (six) months from the date of purchase. Merchandise that fails to conform to these conditions will be repaired or replaced at JIMS® option if the parts are returned to us by the purchaser within the 6 (six) month warranty period or within 10 (ten) days thereafter. In the event warranty service is required, the original purchaser must call or write JIMS® immediately with the problem. Some problems can be rectified by a telephone call and need no further course of action. A part suspected of being defective must not be replaced by a Dealer without prior authorization from JIMS®. If it is deemed necessary for JIMS® to make an evaluation to determine whether the part is defective, it must be packaged properly to prevent further damage and be returned prepaid to JIMS® with a copy of the original invoice of purchase and a detailed letter outlining the nature of the problem, how the part was used and the circumstances at the time of failure. If after an evaluation has been made by JIMS® and the part was found to be defective, repair, replacement or credit will be granted.

**ADDITIONAL WARRANTY PROVISIONS**

1. JIMS® shall have no obligation in the event a JIMS® part is modified by any other person or organization.
2. JIMS® shall have no obligation if a JIMS® part becomes defective in whole or in part as a result of improper installation, improper maintenance, improper use, abnormal operation, or any other misuse or mistreatment of the part.
3. JIMS® shall not be liable for any consequential or incidental damages resulting from the failure of a JIMS® part, the breach of any warranties, the failure to deliver, delay in delivery, delivery in nonconforming condition, or for any other breach of contract or duty between JIMS® and a customer.
4. JIMS® parts are designed exclusively for use in Harley-Davidson® motorcycles. JIMS® shall have no warranty or liability obligation if a JIMS® part is used in any other application.
5. Any parts which have been replaced for any reason become the property of JIMS®, and will not be returned under any circumstances.
INSTRUCTION SHEET FOR TOOL NO. 939 & NO. 958

PARTS AVAILABLE SEPARATELY

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