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# Kit Instruction— KKQJMBBHRT

# Please Read

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## References to Yellow Troubleshooting Pages

This manual may contain references to "yellow pages." Although the pages containing troubleshooting procedures are no longer printed on yellow paper, troubleshooting instructions, if any, will be contained in the easily located "Troubleshooting" chapter or section. See the table of contents.

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## Comments and Suggestions

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## **BEARING HOUSING REPLACEMENT FOR 30022HxJ MACHINES**

### **PREPARATIONS**

Understand and Avoid Safety Hazards

#### **DANGER:**

#### **ELECTROCUTION AND ELECTRICAL BURN HAZARDS**

Contact with high voltage will electrocute or burn you. Power switches on the machine and the control box do not eliminate these hazards. High voltage is present on the machine unless the main machine power disconnect is OFF.

- Do not service the machine unless qualified and authorized.
- Keep bystanders well clear of the machine.
- Lock off and tag out power at the main machine disconnect before servicing.

#### **Danger:**

#### **ENTANGLE, CRUSH, AND SEVER HAZARDS**

These operations require personnel to work in and around areas of the machine where there is a possibility of becoming entangled with electrical wiring, air tubing, or machine parts. Certain machine parts can move in such a way as to crush or sever limbs or cause serious injuries.

#### Required tools

PK33 0008 KIT-HYDPULL  
02-04211 99472B CYL RE-INSTL PILOT, 3022H  
3ea 3/4" fine thread rods 12" long

#### Removal Procedure

1. Remove rear cover of the machine to gain access to the bearing housing.
2. Remove drive belt.
3. Remove housing attachment bolts.
4. Insert three (3) all thread rods in place of three retainer bolts.
5. Utilizing the PK33-0008 kit loosen the basket from the shaft.
6. Using three (3) bolts install into the push off holes on the bearing housing, remove the housing.

#### Reinstallation

1. Install the tapered cylinder insertion pilot (02-04211) to the basket end of the main shaft
2. Apply 1/4" bead of Silicon (20C040B) to the inside edge of the shellback pilot bevel. As per BMP990013.
3. Slide the bearing housing on to the all thread rods. align the housing and by wiggling it into the basket.

4. Once the housing is fully inserted, install retaining bolts using Loctite 242.
5. Remove the all thread rods. Reinstall the remaining bolts as above.
6. Torque the housing bolts to 125 ft-lbs.
7. Remove the tapered cylinder insertion pilot (02-04211) tool.
8. Using the hydraulic ram, press the basket back onto the shaft. See the following instructions.
9. Reinstall the belt and fill the bearing housing with 22oz *SHELL Morlina 220* or equivalent 50wt. Crankcase oil.
10. Test operation of the machine.

#### INSTRUCTIONS FOR INSTALLING 30015/30022 BASKETS with HYDRAULIC RAM

MILNOR has started installing baskets on 30015 and 30022 machines with a hydraulic pump and ram.

The force required to properly set the basket on a 30015 machine is 5 tons (use 4,750 PSI on a 12-ton ram)

The force required to properly set the basket on a 30022 machine is 10 tons (use 9,500 PSI on a 12-ton ram).

MILNOR purchased parts from Templeton-Kenly and Co. for this job. Their phone number is 708-865-1500.

The part numbers are:

- |       |  |
|-------|--|
| RC121 | S/A Center Hole Cylinder - 12 ton<br>(single acting hollow bore hydraulic ram) |
| P42   | Two-speed, hand operated, hydraulic pump                                       |
| HC6   | 1/4"ID x 6' long hose with coupler   |
| GT30  | 3+1/2" Gauge   |
| GA1   | Gauge Adapter  |

The following MILNOR parts are used:

15K235GA Bolt - This is a grade 8 bolt, long enough to go through the ram.

02 14359A Plate - This is the standard square "washer" for the basket attachment.

Instructions:

1. Place the long bolt through the hollow ram and then through the plate.
2. Clean the shaft and basket taper with solvent.
3. After placing the basket on the shaft and inserting the key, insert the bolt into the center hole in the shaft and run the bolt up tight by hand.
4. Use the pump to reach the appropriate setting on the Pressure Gauge.
5. Remove the bolt and install the standard basket bolt, plate and cover.