



INSTRUCTION BULLETIN

No. 3742
Machine: 830
Published: 8-95/00
System: HYDRAULICS

SYNOPSIS / PROBLEM:

This kit contains the instructions needed to add grease grooves to the hopper lift cylinder bearing block bushings on the high dump version of the model 830. Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS:

Special tools: Die grinder and die grinder bit.

(Estimated Time to complete: 3 hours)

PREPARATION:

(Refer to FIG. 1)

FOR SAFETY: Before leaving or servicing machine, stop on level surface and set parking brake.

1. Empty and raise the hopper all the way up.
2. Insert the safety pins in the channels. (Refer to Fig. 1)

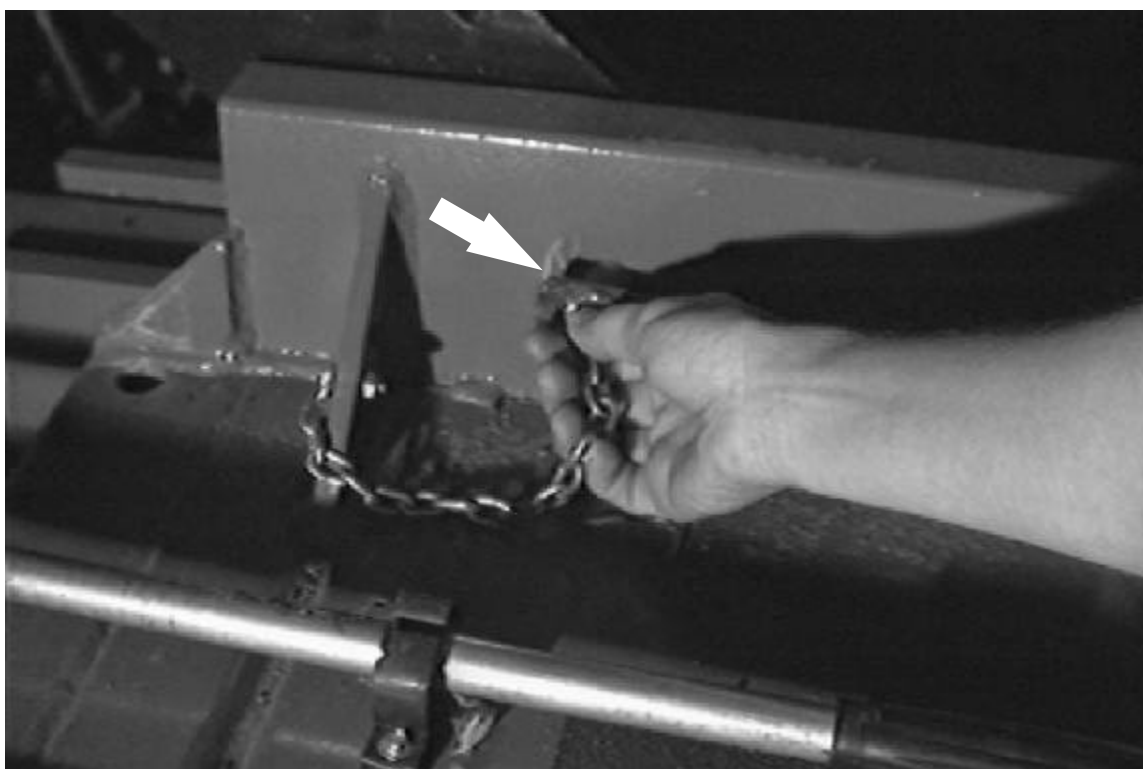


FIG. 1 - Insert Safety Pin

3. Lower the hopper until the roll out cylinders are fully retracted.
4. Lower the main brush all the way down and shut the machine off.
5. Move the hopper valve and main brush valve handles back and forth several times to relieve the pressure on the cylinders.

REMOVAL OF HIGH DUMP MAIN BRUSH AND HOPPER LIFT CYLINDERS:

(Refer to FIG. 2 and 3)

1. Remove the main brush lift cylinder for access to the bearing blocks on the hopper lift cylinders. (Refer to Fig. 2)

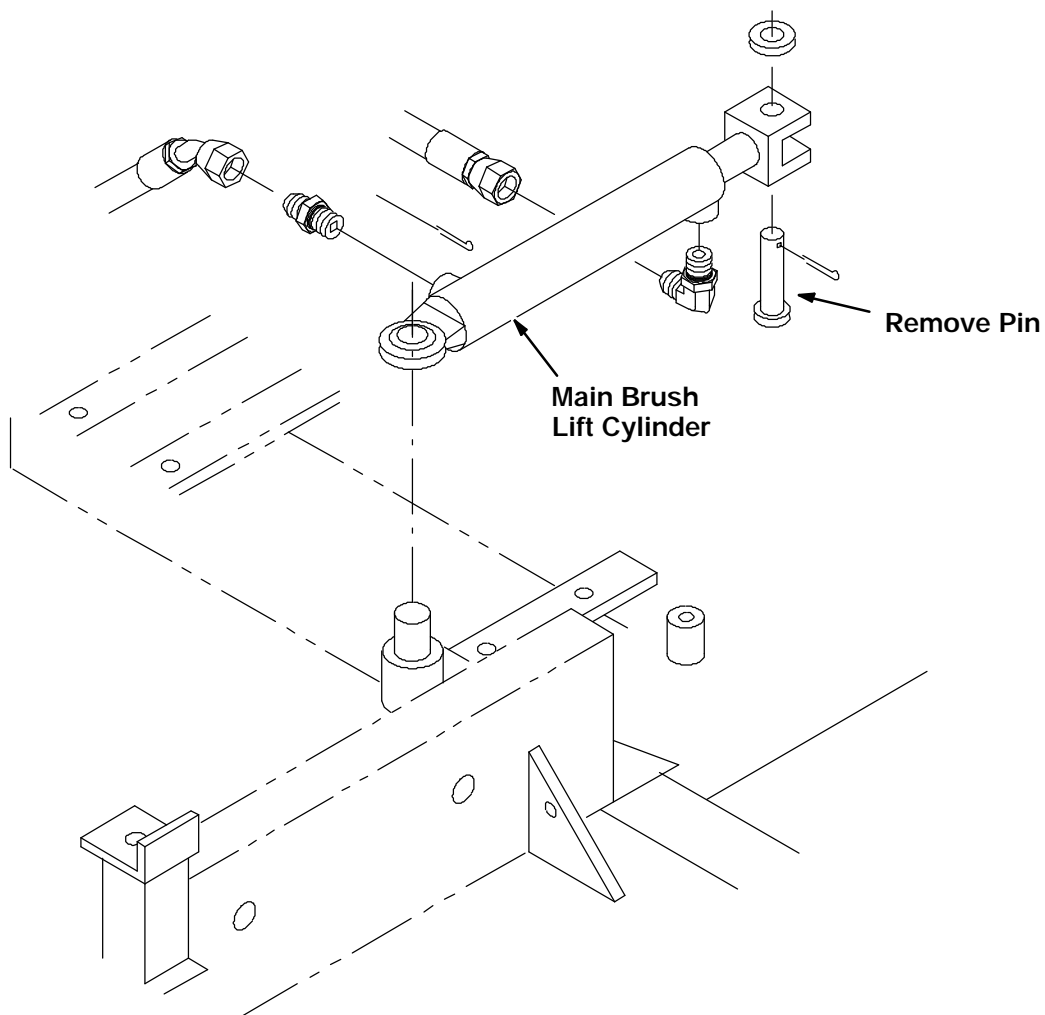


FIG. 2 - Remove Main Brush Lift Cylinder

2. Remove the pins on the rod ends of the hopper lift cylinders. (Refer to Fig. 3)
3. Remove the four bearing blocks that hold the hopper lift cylinders. (Refer to Fig. 3)

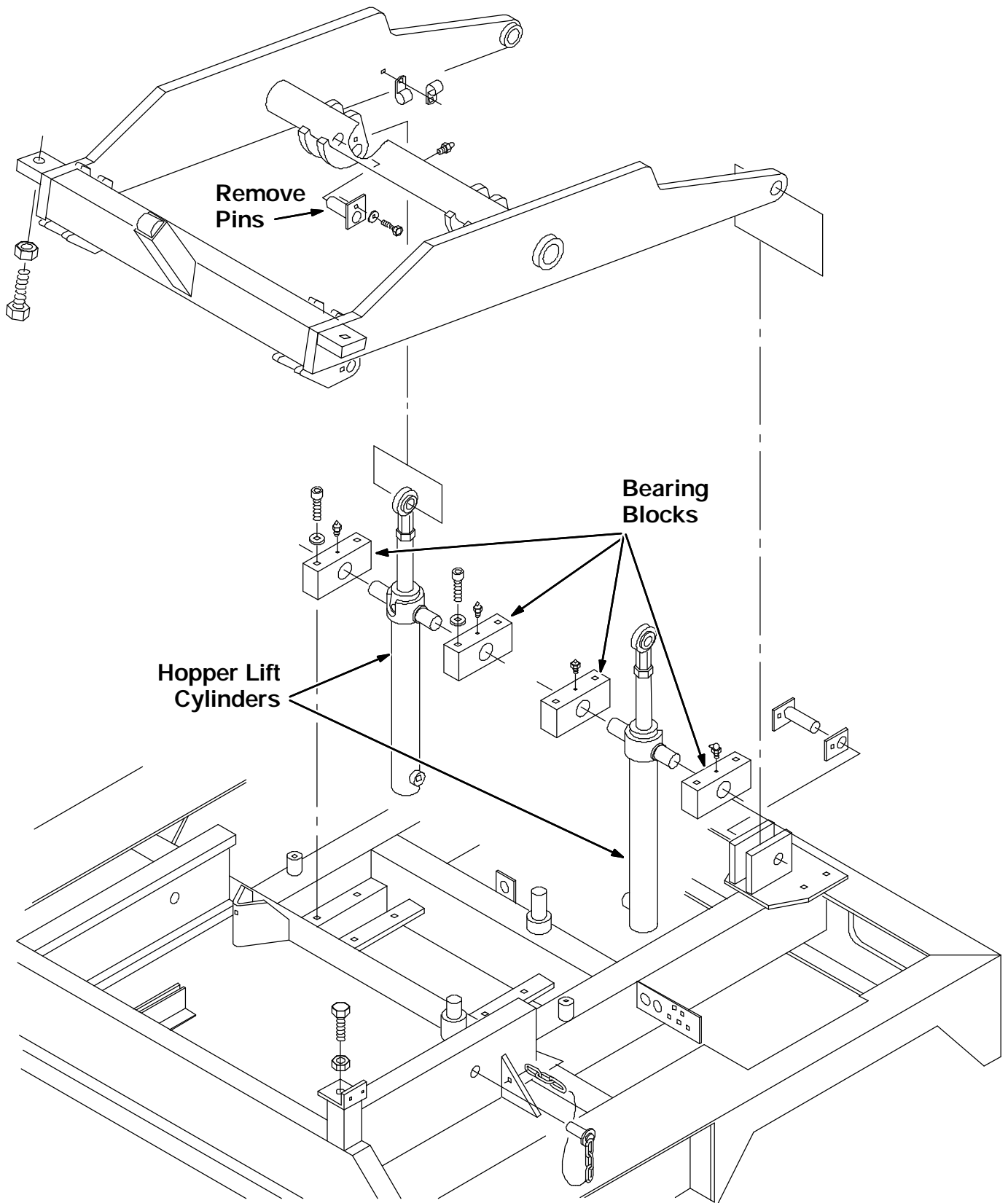


FIG. 3 - Hopper Lift Cylinders

GRINDING THE GREASE GROOVES IN THE BEARING BLOCK BUSHINGS:

(Refer to FIG. 4)

4. Grind grooves 1/8 inch wide and .06 inch deep into the bearing block bushing with a Die Grinder. (Refer to Fig. 4) Make sure the longitudinal groove is opposite the grease fitting.

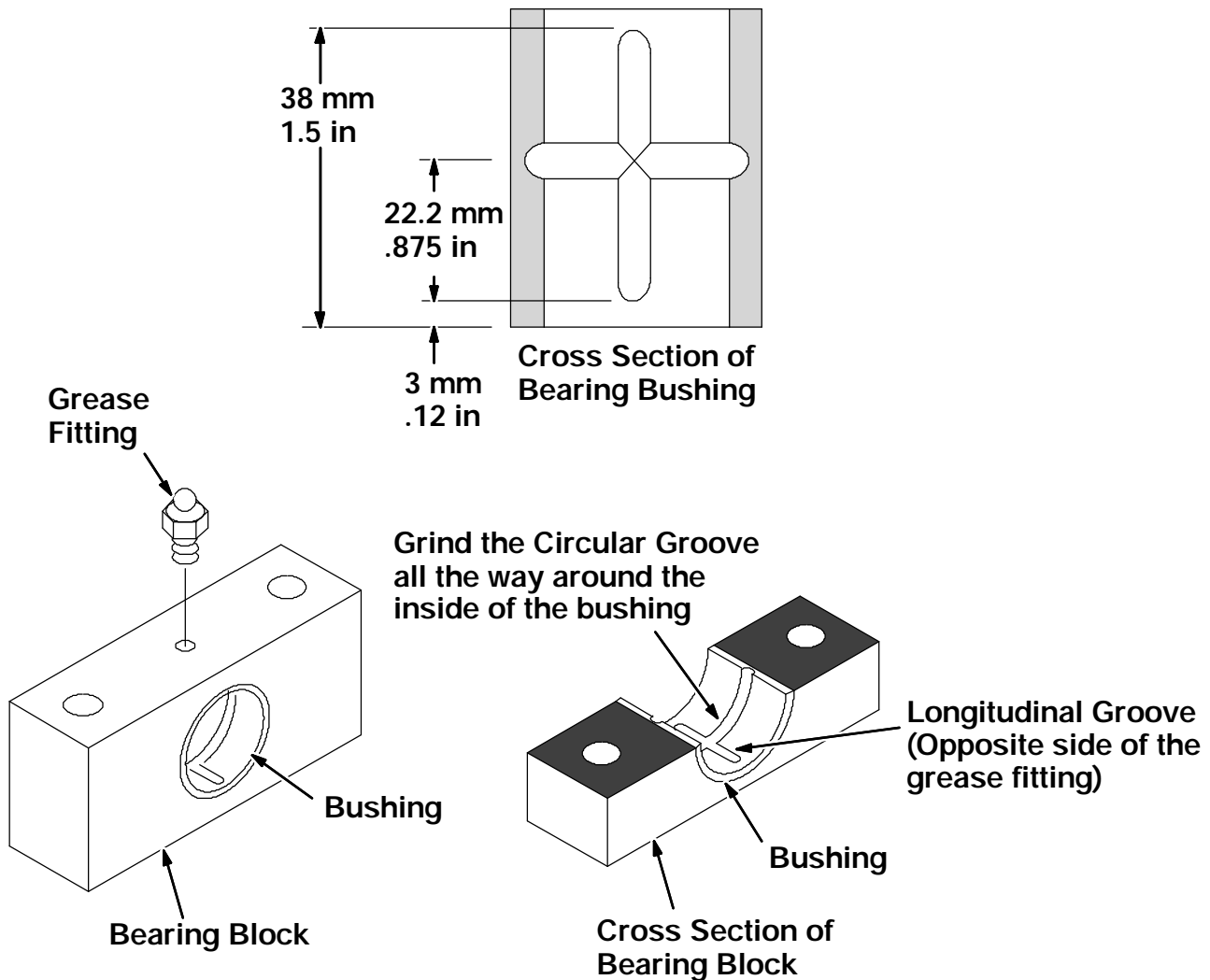


FIG. 4 - Bearing Block And Bushing

5. Replace the four bearing blocks and the hopper lift cylinders. (Refer to Fig. 3)
6. Replace the pins on the rod ends of the hopper lift cylinders mounting them to the hopper.
7. Replace the main brush lift cylinder. (Refer to Fig. 2)
8. Grease all four blocks with Lubriplate grease #4835 until grease appears around the bottom of the shaft and bearing block.
9. Raise the hopper all the way up and remove the safety pins from the channels to allow the hopper to be lowered.
10. Cycle both the lift and rollout cylinders in the full up and then the full down positions three times to expel air from the hydraulic system.
11. Lower the hopper and check the hydraulic fluid level.