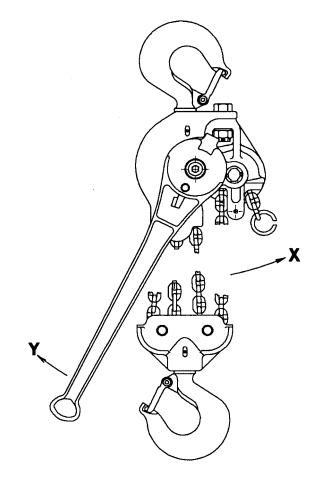
# OPERATING AND REPAIR INSTRUCTIONS FOR CHANCE CHAIN HOISTS

# **MODELS COVERED:**

C309-0458	—1½ Ton
C309-0440	—3 Ton
C309-0441	<b>—4</b> ½ Ton
C309-0442	—6 Ton



# **△CAUTION**

The equipment covered in this instruction guide should be installed, used, and serviced only by competent personnel familiar with and following good work and safety practices. This equipment is for use by such personnel and is not intended as a substitute for adequate training and experience in safe procedures for this type of equipment.

The information contained in this instruction guide has been compiled as a result of review of the product, its intended application and use considerations. However, this instruction guide does not cover all details or situations in equipment use nor does it provide for every possible contingency to be encountered in relation to installation, operation or maintenance. Should additional information and details be desired or specific situations arise which are not covered adequately for the user's purpose, consult your supervisor and the appropriate rules for safe work practices.





The Chance Hoist is designed to provide long and rugged service. Observing the suggestions listed below will increase the service life of the hoist:

- 1. The hoist should be inspected, cleaned and re-lubricated periodically depending on usage conditions.
- When lowering a light or "bouncing" load do not flip or otherwise cause the handle to become self-ratcheting. Allowing the handle to self-ratchet causes undue wear on the stop areas and reduces the wear life of the hoist. In addition, the free-ratcheting handle could strike the operator.
- 3. When operating the handle it is not necessary to "slam" the handle past the ratcheting position. Constant impact will increase wear of the hoist mechanism.

### TO POSITION HOIST FOR USE:

# **△WARNING**

When placing the hoist in operating position, care must be taken to make sure that the load hook and the housing hook of the hoist are on the same centerline. If the hoist is restricted from adjusting itself to form a straight line with the direction of loading, damage to the hoist could occur.

The hoist may be operated in any convenient position and the handle may be operated on either side of chain as shown by the arrows X and Y (above) on the drawings.

To put the hoist in free-wheeling, turn the shift key finger to the "Dn" (down) position and hold the release key in the direction of the arrow. Pull the chain in the "Up" direction approximately 2 links then pull on the hook side of the chain to get sufficient slack to hook onto the load. To take up slack, simply pull on the free end of the chain, the hoist will ratchet even though the release key is not depressed.

# TO LIFT A LOAD:

Turn the shift key finger to "Up" and operate the handle. The handle may be operated on either side of chain as shown by the arrows (X) and (Y) on the drawing.

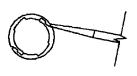
### TO LOWER A LOAD:

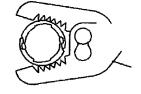
Turn the shift key finger to "Dn" (down) and operate the handle. The handle may be operated on either side of chain as shown by the arrows (X) and (Y) on the drawing.

## TO SHIFT HANDLE:

To change position of handle from side marked X to side marked Y press release key in direction of arrow.

# DISASSEMBLY INSTRUCTIONS FOR PERIODIC INSPECTION AND REPAIR OR REPLACEMENT OF PARTS





To remove Interlocking Snap Ring, pry one end apart using screwdriver. Parts may fly away when Ring unsnaps.

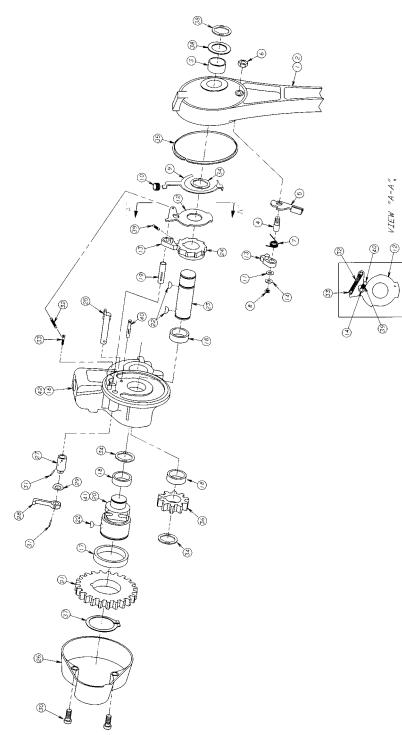
To reinstall, hook one end and close with pliers.

In order to best visualize these instructions, study and refer to the exploded view of the hoist.

- 1. Remove snap ring (056011) from shaft (019555).
- Push "release key" (P309-0346) in the indented area of the handle in the direction marked "release" to disengage the working pawl from the unloader plate and lift handle assembly off the shaft. This will expose the mechanism.
- 3. The working pawl may be removed by first removing screw (56013) and washer (56014) from the post supporting the pawl. Torsion spring (56010) can be removed, after the dog, if needed.
- 4. When reassembling working pawl and spring (56010), place the short leg of the spring to the pin on the pawl, on the side facing handle (P309-0816), and the long leg of the spring against the handle housing (P309-0816).
- 5. If necessary to replace the pawl post (19486) or release key (P309-0346) press the pawl post out of handle with a careful and steady force. In replacing the new pawl post (19486), be certain it is pressed in straight, using an even pressure, and that release key (P309-0346) is in position before pressing post into handle.
- 6. The holding pawl can be removed by unhooking the two extension springs from the unloader plate and from screw (56163) in the housing. Remove snap ring (56011) and slide unloader plate off shaft (019555) after which pawl can be lifted off post (56016).
- 7. After unloader plate has been removed, ratchet (19556) may be slipped off the shaft. Then woodruff key (56507) may be removed. The shaft (019555) may be slipped out of bearing bore.
- 8. In replacing the holding pawl, make sure the pin which is permanently secured to the pawl is faced to the outside, so that it projects through the unloader plate, when it is replaced on the shaft.
- 9. To remove the ratchet gear and chain socket, disconnect chain end and pull out of housing (on reassembly, insure welded side of chain is away from chain socket). Then by removing interlocking snap ring (56011), the chain socket and gear (019549) will slide out in one piece.
- 10. Hook (P309-0389) may be removed from the housing after pressing roll pin (P001-1460) from the nut (P001-0757) and unscrewing hook from nut.
- 11. The shift key (P309-0043) can be removed by backing out the drive-lock pin (59036) holding the shift key finger (19296) to the shift key.
- The bearings (058613, 058614) can be removed and replaced in the accepted manner of pressing them out and pressing the new ones in.

To reassemble, follow these instructions in the reverse manner replacing parts in the same position as noted when removed.

It is important that the hoist be inspected, cleaned, and relubricated periodically depending on working conditions.



HOUSING SUB-ASSEMBLY ALL MODELS FIG. 1

Description	Handle Handle Handle Oilite Bearing Pin Release Key Hex-Jam Nut Spring Machine Screw Stop Bolt Spring Washer Unloader Plate Dog Assembly Lockwasher Housing Pin (Driv-Lok Type) Pocket Wheel Spur Gear Woodruff Key Pinion Shaft Ratchet Wheel Spur Gear Woodruff Key Pinion Shaft Ratchet Wheel Spur Gear Cover Shiff Key Finger Washer Cap Screw Driv-Lok Pin Spring Machine Screws Snap Rings Wear Strip Pinion Snap Rings Wear Strip Pinion Snap Rings Wear Strip Pinion Snap Rings Washer Sparing Washer Spring Pinion Snap Rings Washer
Part No.	P309-0816 E309-0819 058614 019486 P309-0346 056010 056013 019673 P309-0307 019673 P309-036 E309-0356 E309-0356 P309-0378 019552 019552 019556 P309-0417 P309-0417 P309-0417 P309-0417 P309-0417 P309-0417 P309-0418 019556 P309-0417 P309-0418
	- 0 c 4 c o c o c c t c t t t t t t t t t t t t

