

CHAMBERLAIN®

LiftMaster®

PROFESSIONAL

Manual Hoist Modification Used For Trolley Operators

655209 (1/3 & 1/2 HP trolley operators)

6552091 (3/4 & 1 HP trolley operators)

6552092 (GT operators)

APPLICATION

Manual Hoist Modification for use with model T or GT operators.

- 655209 for 1/3 & 1/2 HP trolley operators with #48 drive chain
- 6552091 for 3/4 & 1 HP trolley operators with #48 drive chain
- 6552092 for GT operators with #41 drive chain

Modification provides hand chain operation for manually opening/closing the door as follows:

1. A chain wheel is coupled to a cross header shaft which in turn is coupled to the front idler of the trolley.
2. The front idler pulley is replaced by a #48 sprocket thus allowing the chain wheel to drive the door arm.

PACKING LIST

PART #	DESCRIPTION	QTY
	Instructions	1
10-10893	Chain Retaining Bracket	1
12-11438	Bearing Assembly	2
15-48B14LXX	Sprocket, 48B14 1" Bore	1
15-50B35LGH	Sprocket, 50B35 1" Bore and 5/16" Set Screws	1
19-10929-25	Hand Chain	1
*19-41047	Chain (47 Pitches) #41	1
*19-41ML	Master Link #41	1
**19-48049	Chain (49 Pitches) #48	1
**19-48ML	Master Link #48	1
19-50106M	Chain Package #50	1
75-11503	Front Idler Assembly for #41 Chain	1
75-11973	Manual Hoist Housing	1
75-11459	Brake Cable Release Kit	1
86-RP06-300	Roll Pin 3/16" x 3"	1
86-RP08-112	Roll Pin 1/4" x 1-3/4"	1
86-RP10-300	Roll Pin 5/16" x 3"	1
75-11502	Front Idler Assembly For #48 Chain	1

* Used on #41 Drive Chain only.

** Used on #48 Drive Chain only.

PREPARATION

1. Door size to be indicated at time of order. If the door size specified is 16 feet or taller a sash chain and key ring package will also be included with packing list.
2. A cross header shaft is required for installation of this manual hoist (not provided).

This shaft is available and will be provided if specified at time of order.

1" cold rolled steel shaft 12 ft. long, for doors up to 20 ft. wide.

1" cold rolled steel shaft 20 ft. long, for doors over 20 ft. wide.

3. Hand chain length is twice the door height less 3 feet. Ensure the proper length of chain has been provided.
4. If the manual hoist is being added to pre-installed operator, it will be necessary to move the operator and track assembly back (into the garage) approximately 6" to allow for installation of the new front drive assembly.

For more information, please visit www.devancocanada.com or call toll free at 855-931-3334

1. Disconnect power to operator.
 2. **Existing Installation:** Using proper temporary support for the operator and track assembly, disassemble the existing front bracket and idler assembly from the track end (Refer to owner's manual if necessary).
New Installation: Assemble the trolley operator according to the owner's manual. Use the new front bracket and idler provided.
 3. The chain hoist can be installed on the left or right side of the door. Determine which side the chain hoist will be mounted on and install the front idler assembly with the sprocket coupling facing in the desired direction. Be sure to install a track spacer at the end of the track.
 4. Using the chain and master link provided, lengthen the existing chain provided with the operator. Add/Remove links as required for proper tension of the drive chain. Refer to the owner's manual for the proper tension value.
 5. Position and mount the operator/track assembly as indicated in the owner's manual.
- NOTE:** The front bracket will not pivot as shown in the manual so temporary support of the operator will be required.
6. If you supply your own shaft you will need a length of 1" solid shaft (ideally cold rolled steel). The approximate length of this shaft should be one-half the door width plus 2 feet. Determine the chain hoist location and cut the shaft to the desired length.

WARNING

To prevent possible **SERIOUS INJURY** or **DEATH**, disconnect electric power to operator **BEFORE** installing.
ALL installations and electrical connections **MUST** be made by a qualified individual.

7. Install the 48B14 sprocket on one end of the shaft, (Figure 2). Align sprocket flush with end of shaft, drill a 1/4" diameter hole through sprocket hub and shaft. Secure using 1/4" x 1-3/4" rollpin. Slide the two shaft support bearings onto the shaft. Drill and pin the 40 tooth drive sprocket in desired location on the opposite end of the shaft.
8. Supporting the far end of the shaft, butt together the two 48B14 sprockets and connect using the #41 chain provided.
9. Position the bearings on shaft so that one bearing is at the mid point and the other as close to the 40 tooth sprocket as possible. With the shaft level and using suitable hardware, secure the bearings.
10. Vertically align the hand chain sprocket with the 40 tooth drive sprocket. With the chain in place, and using suitable hardware, secure the hoist housing. Align and secure the hand chain retaining bracket.

FIGURE 1

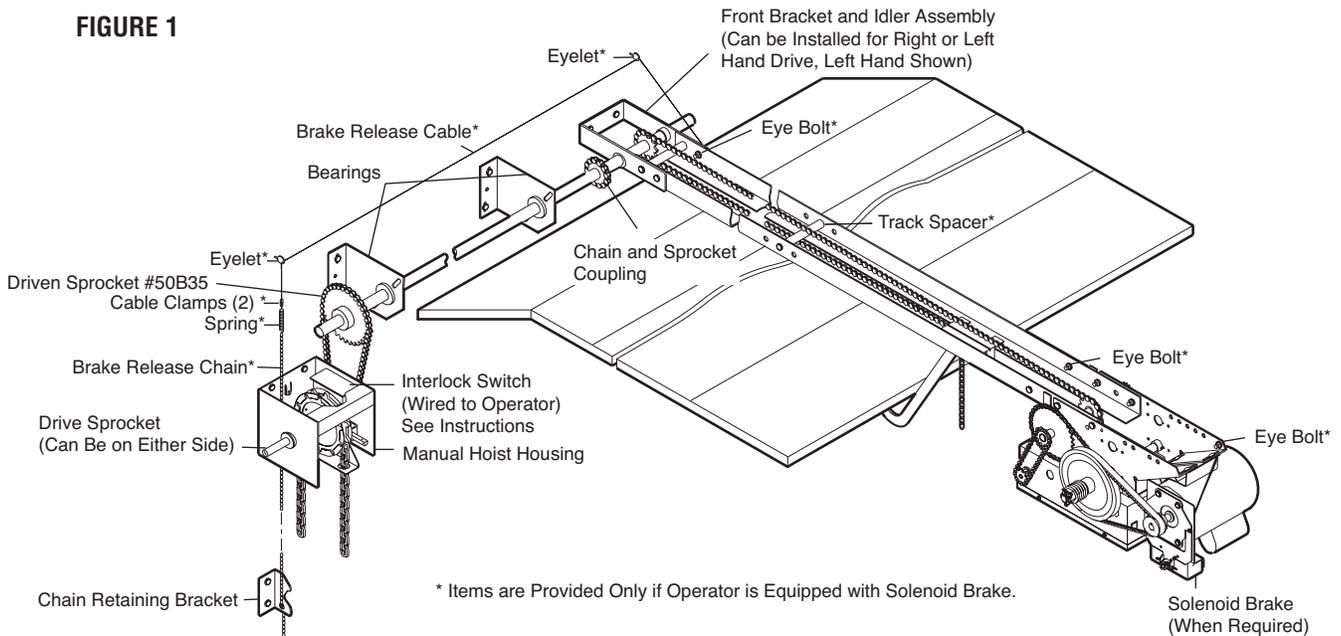
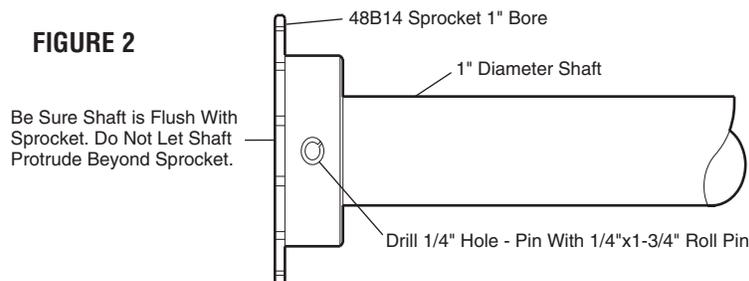


FIGURE 2

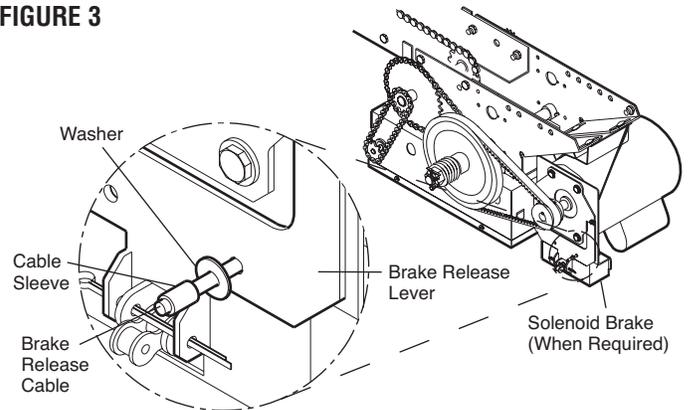


MODEL T OPERATORS WITH A SOLENOID BRAKE

If the operator is equipped with a solenoid brake it will be necessary to install a release cable.

1. Install the (3) eye bolts in the approximate locations (Figure 3). Drill a hole in the operator frame.
2. Install the two (2) eyelets on the jamb.
3. Thread the brake release cable through the holes in the brake plate and the release plate (Figure 3). Slide the #8 flat washer on and fasten the cable stop sleeve on the end.
4. Install the spring and key ring assembly to the length of disconnect chain.
5. Run the cable through the eye bolts and the eyelets and loosely fasten to the chain with the two (2) cable clamps.
6. Adjust the cable so that the brake releases when the brake release chain is engaged. Ensure that the brake functions normally at all other times.

FIGURE 3

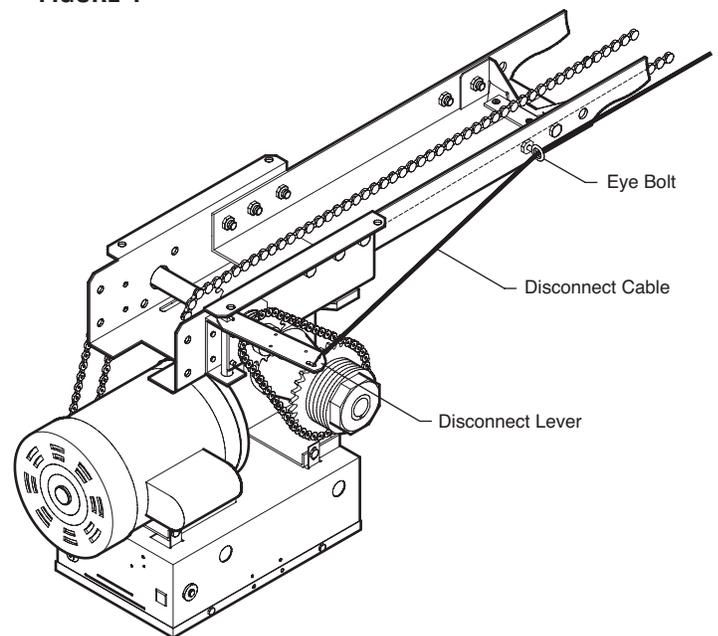


MODEL GT OPERATORS

Manual Hoist Model GT operators are equipped with a power train disconnect mechanism and an interlock switch to disable the electrical operation of the operator. A disconnect cable, used to activate the disconnect, must be installed. Follow the directions below referring to the illustrations as necessary.

1. Install (2) eye bolts in the track at the locations (Figure 1). It is not necessary to install the third eye bolt.
3. Install the two (2) eyelets on the jamb.
4. Attach one end of the disconnect cable to the end of the disconnect lever (Figure 4).
5. Install the spring and key ring assembly to the length of disconnect chain.
6. Run the cable through the eye bolts and the eyelets and loosely fasten to the spring with the two (2) cable clamps.
7. Adjust the cable to insure that the disconnect lever actuates when the disconnect chain is pulled.

FIGURE 4



INTERLOCK SWITCH WIRING

Wiring must be in compliance with local building and electrical codes. Using 16 gauge wire, wire the interlock switch located on the hand chain mechanism to the operator terminal block.

Refer to the wiring diagram provided on the inside cover of the operator for proper wire connections.

Remove the factory provided jumper between terminals in the electrical box. Terminals 4 and 5 in mechanical operators, and terminals 2 and 3 in logic operators. If other external interlock devices are present connect interlocks in series.

WARNING

To prevent possible **SERIOUS INJURY** from moving parts when hand chain is in use, interlock **MUST** be installed.

HOW TO ORDER REPAIR PARTS

DEVANCO CANADA

19192 HAY ROAD, UNIT Q
SUMMERSTOWN, ON K0C 2E0

TOLL FREE: 855-931-3334
www.devancocanada.com

**WHEN ORDERING REPAIR PARTS
PLEASE SUPPLY THE FOLLOWING INFORMATION:**

- ✓ **PART NUMBER**
- ✓ **DESCRIPTION**
- ✓ **MODEL NUMBER**