LiftMaster®

EXTERNAL BRAKE KIT INSTRUCTIONS FOR LOGIC 5 MODELS T, J AND H

APPLICATION

This wiring modification is available for Logic 5 models T, J and H. This brake kit is for all 115V, 208V, 230V/460V and 575V operators.

BRAKE FUNCTIONS

Verify the brake kit matches your operator and provides up to 5ft.-lb. of braking torque at 1725 RPM motor shaft. The brake kit may be factory or field installed.

INSTALLATION

NOTE: *Refer to illustrations on pages 2 and 4 for additional help with installation.*

1. Disconnect power to the operator.
2. Remove the set screws securing the motor pulley to the shaft and set to the side. Remove existing key and replace with new key (#10). Secure in place with existing set screws and thread sealant.

NOTE: *Verify that the key is flush to the pulley side closest to the motor and sticks out towards the end of the shaft.*

3. Mount the support bracket to the motor studs in the same position as the solenoid. Secure in place with the (2) new serrated flange nuts (#9). Select proper thread to match the motor studs. **Only on 575v operators:** Secure the threaded brake adapters onto the motor. Secure support bracket onto brake adapters.
4. The brake standoffs (#13) are threaded #10-32 on one end and #8-32 on the other. Select the proper thread to match the motor studs. Apply thread sealant to the motor studs before installing. Mount the brake standoffs to the two remaining motor studs.
5. Slide the new hub (#3) onto the shaft until it is flush with the motor pulley. Secure in place with the set screw and push ring (#2).
6. Install the collars (#11) into the keyhole slots on the brake assembly (#1). ***NOTE:*** *Set screws in collars should be located away from motor.*
7. Place brake assembly over motor shaft and align the collars (2) from step 4 with the brake standoffs (2) from step 2. Slide entire assembly into position on brake hub (push brake actuator lever to allow rotation of brake disc for alignment).
8. Position brake assembly so that the edge of the 1.25" square extrusion in the disc (#14) is flush with the front of the brake hub. Secure in place by installing screws #10-32 (2) and flat washers through the slots (2) in mounting plate and into the tapped holes (2) in mounting bracket and tighten. Verify assembly is square to motor and tighten the socket head screws (#12) (2) into each collar.

⚠⚠ WARNING

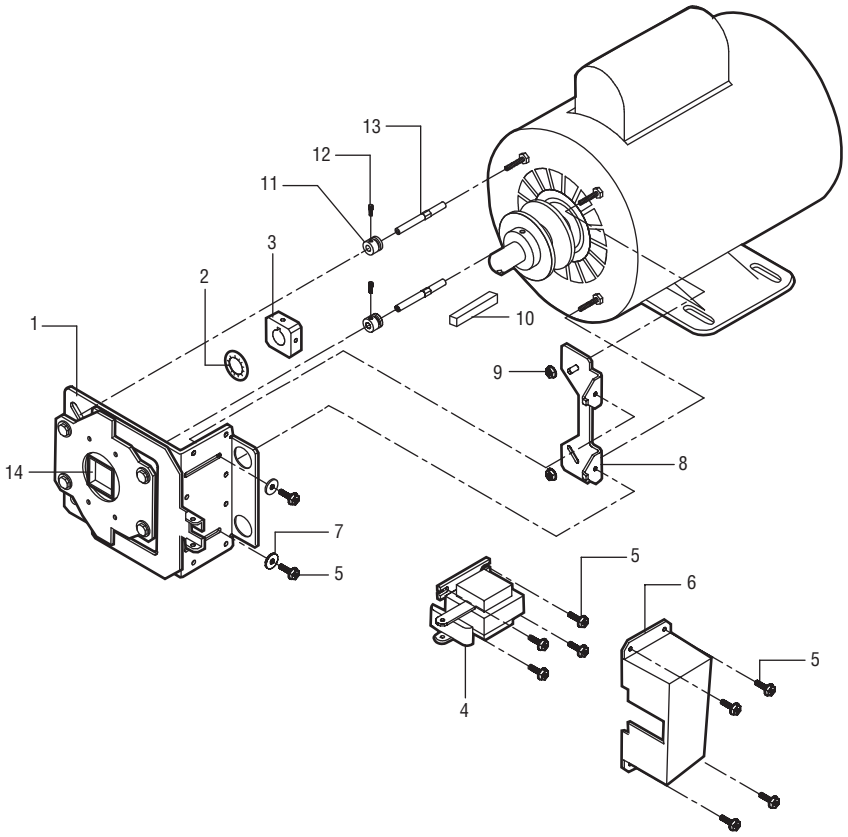
To prevent possible SERIOUS INJURY or DEATH, disconnect electric power to operator BEFORE installing.

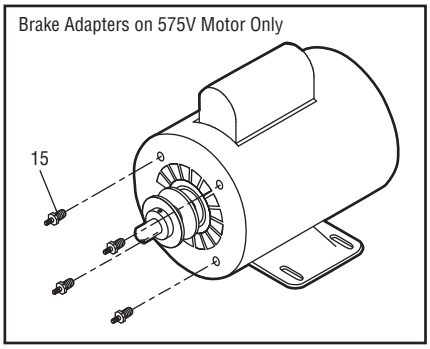
ALL electrical connections MUST be made by a qualified individual.

LOGIC 5 BRAKE SERVICE KITS	
MODELS T, J, AND H	
PART #	**DESCRIPTION**
71-EB1PH	Single Phase Brake Kit (115v/230v)
71-EB3PH	3 Phase Brake Kit (230v/460v)
71-EB575-1	575 Volt Brake Kit

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

BRAKE KIT ILLUSTRATION





ITEM	DESCRIPTION	QTY
1	Brake assembly	1
2	Push ring, 5/8"	1
3	Brake hub	1
4	Brake solenoid 115V*	1
	Brake solenoid 208V*	1
	Brake solenoid 230/460V*	1
	Brake solenoid 575V*	1
5	Flange head screw, #10-32 X 5/8"	10
6	Solenoid cover	1
7	Flat washer #10	2
8	Support bracket	1
9	Serrated flange nut, #8-32**	2
	Serrated flange nut 10-32**	2
10	Key, 3/16" X 3/16" X 2.0"	1
11	Collar	2
12	Socket head screw, #6-32 X 3/16"	2
13	Brake standoff	2
14	Disc	1
15	575V Brake adapters (575V Motor Only)	4

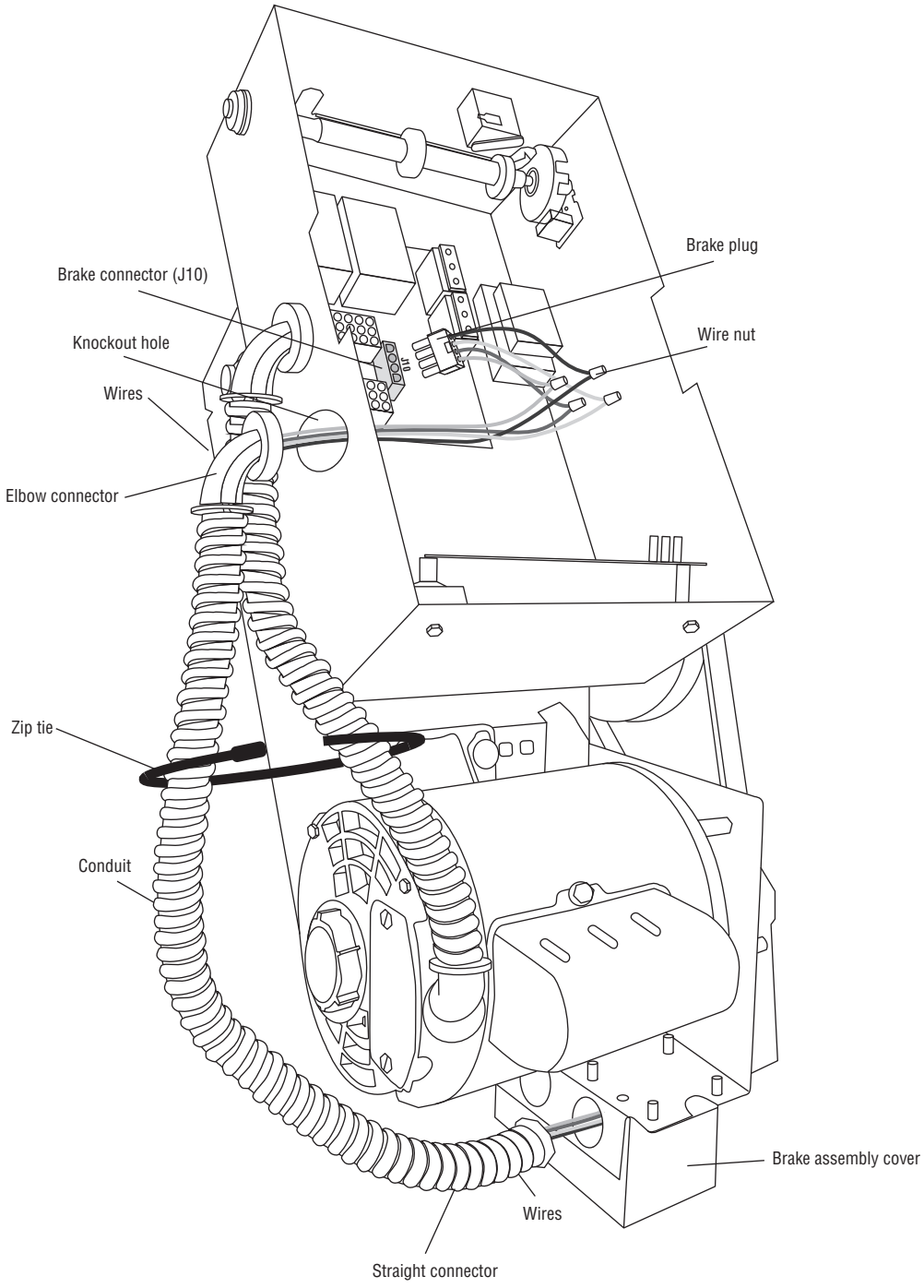
NOT SHOWN

	Brake release cable assembly***	1

* = Solenoid shipped depends on operator voltage.
** = Flange nuts used depends on motor mounting studs.
*** = Shipped with model “H” operators (page 4).

WIRING INSTRUCTIONS FOR OUTBOARD BRAKE KITS

1. Remove cover from brake assembly.
2. Run wires through the hole furthest from the base of the motor.
3. Insert the wires through the straight conduit connector and through conduit.
4. Snap the connector into place on the brake assembly.
5. Use plug to close the second hole on the brake assembly.
6. Remove knockout on operator where conduit will be attached.
7. Run the wires from the conduit through the knockout hole.
8. Snap elbow connector into the knockout hole on operator.
9. Using the wire nuts, connect wires from brake assembly to brake plug as follows:
   Single Phase - Blue to blue, yellow to yellow, black to black, and white to white.
   Three Phase and 575v - Blue with black stripe to blue with black stripe. (Not polarity sensitive)
10. Tape off all wire nuts with electrical tape (not supplied) and secure the wires with zip ties.
11. Connect brake plug to brake connector (J10) on the power board.
12. Replace cover to brake assembly.
13. Secure both conduits with zip ties.



RELEASE CABLE INSTALLATION (MODEL H ONLY)

1. Locate the screw threads protruding through the mounting plate opposite the brake solenoid. Mount the new cable clamp (provided) to the thread that is second from the top and closest to the motor. Secure in place with the #10 flange nut (provided).
2. Locate the release cable, cable sleeving and (2) spring clamps. Install the two spring clamps onto one end of the sleeving. Feed the release cable from the side without the spring into the sleeving from the side with the spring clamps.
3. Take the release cable assembly from step 2 and feed the release cable and sleeving through the cable clamp installed in step 1, the top hole of the support bracket, and mounting plate. Once you get to the release lever, feed only the release cable through the top hole. Secure in place by installing a #8 flatwasher and a 1/16" cable stop sleeve. Secure cable stop sleeve in place by crimping with pliers (Figure 3.1).
4. Locate the frame spacer that has the release chain going through it. Take the end of the cable sleeving with the two collars and slide it down into the notch in the center of the bracket (be sure that one collar is on each side of the bracket). Release the collars and slide the sleeving until there is at least 3" of sleeving protruding out past the bracket. Secure in place by sliding the collars as tight to the bracket as possible and flush with the set screw (Figure 3.2). Do not over tighten.
5. Pull release chain and release cable so that both are taut, being careful not to engage either of the two. Connect the two together using the key ring on the end of the spring.
6. Reconnect power to the operator.

TEST BRAKE RELEASE

After the installation is complete, pull the release chain to verify the brake disengages. If the brake does not fully disengage, it can be adjusted by hooking the key ring further away from the operator. Move the key ring one chain link at a time, testing each time (Figure 3).

Figure 1

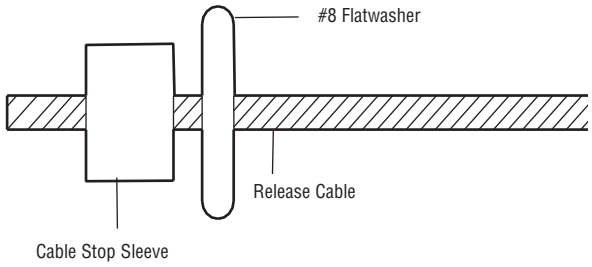


Figure 2

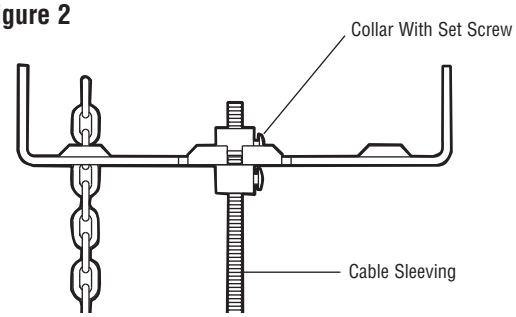
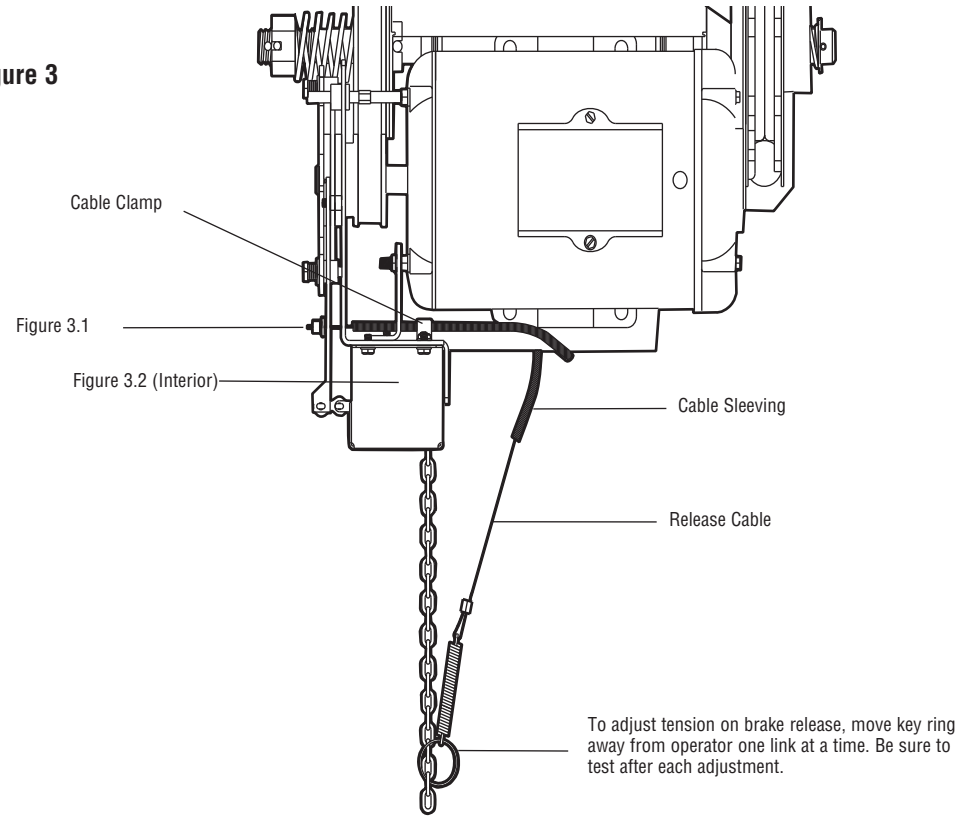


Figure 3



HOW TO ORDER REPAIR PARTS

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WHEN ORDERING REPAIR PARTS PLEASE SUPPLY THE FOLLOWING INFORMATION:

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