

Revision

7

LOCKMAN PECK LLC.

MODEL 2000 HANDICAP OPERATOR INSTALLATION MANUAL



Lockman Peck LLC was founded on and continually strives to produce the best “HANDICAP” automatic door operator possible. We thank you for selecting our product for this entrance. Please read these directions completely. Understand that they are written for a typical installation and may need to be altered for each installation. This operator will perform for years once installed correctly. Be sure you adhere to all local codes and to ANSI A156.19 “STANDARDS FOR POWER ASSIST AND LOW ENERGY POWER OPERATED DOORS”.

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TOOLS REQUIRED

(1) Knife (1) Level (1) Tape Measure (1) #2 Phillips (1) #3 Phillips Bit
(1) 3/16" Drill Bit (1) 1/2" Drill Bit(1) 3/8" Drill (1) 3/8" Drill Bit
(1) Box 3/16 x 1 1/4" Tapcons (1) Wire Striper/Crimper
(1) Hacksaw (1) Countersink (1) Set of Allen Wrenches

GENERAL CONDITIONS

The Model 2000 is designed for Residential, Commercial, and Industrial use. If it is to be retrofitted onto an existing door and frame, it is important that the door is in good condition and swings without restriction. It is also important that the header is sturdy and unit is fastened securely using the appropriate fasteners.

WARNING: To reduce the risk of injuries to persons, use this operator only with (a) 120 pound door(s).

All electric wiring must comply with the National Electric Code.

This is a low energy operator and must comply with ANSI A156.19. It is not a solution to wind or stack air conditions. If these conditions exist, please call factory for advice and possible solutions.

Be aware that the door should:

1. Open to provide at least 32 inches of clear opening.
2. Have a 5' x 5' of flat floor on both sides of door.
3. Be protected at the bottom rail, 7 1/2" up.
4. Not have a threshold higher than 1/2 inch.
5. A commercial or residential swinging pedestrian door shall not close with a force greater than 40 lbf at the latch side of the closing stile and shall not close through the final 10 degrees in less than 1.5 seconds.

RECEIVING INSPECTION

Inspect package for possible shipping damages. Carefully cut scraps and tape and unfold cardboard box. Packed in this box you will typically find (1) arm assembly, (1) set of door decals, and any wiring diagrams pertinent to your operator. Remove items and place them carefully aside so they will not be damaged or lost. Using a #2 Phillips, remove the four cover screws. Remove cover.

Remove packing and inspect for items wrapped in it. You should inspect all items before continuing.

CONTACT FACTORY ON DAMAGES AND MISSING EQUIPMENT.



INSTALLATION

Installation Preparation

The hanger bracket assembly is unique to the Automated Entrance low energy operators. It allows one person to install the operator quickly and efficiently.

Locate Phillips screws inside at the top corners. Remove these and separate the header from the hanger plate. On the hanger plate, measure in $7/8$ " and 11 " from both ends. Mark and drill a $3/16$ " hole and counter sink on the bottom Webb.



Installing Hanger Plate

The hanger plate should be located 5/8 inch in from the outside edge of the hinge jamb. Level and flush with bottom header. Vise clamp to header and drill thru holes a 3/16 inch hole. Fasten with tapcons using drill and #3 Phillips bit.



Header Location for Pull or Dual Units

The bottom of the header should be approximately one inch above the top of the door. The goal here is to be able to pass the door under the main shaft of the unit. Depending on the pivot (i.e. offset) of the door the location from pivot end of unit differs.

Lift the operator and lower unto the webs of the hanger bracket. Be sure both top and bottom are engaged. Once they are seated, gently pull down until unit is completely flush and screws can be replaced in top corners.



110VAC CONNECTIONS

Have a licensed electrician bring 110 to the swinger in accordance with all local and state electrical codes. Be sure the 110-power supply is off before proceeding. The 110-power line must be run thru the knockout holes in the end of the unit case. A handy box and plug receptacle is located inside the case on the latch side. You should inspect all wiring at this time before turning on the power.



ARM INSTALLATION

Review control adjustment section. We have preset controls to approximat settings. Press the test button to activate the operator.

The operator will activate and the splinned output shaft will rotate 340° (degrees). During this period the operator should remain in the full open position.

If the operator reverses, increase the “HOLD” potentiometer. Re-activate the operator and check that it stays open. Attach the power arm onto the splinned shaft so that it is pointed at a 50° to 60° (degree) angle through the door opening. Tighten screw on arm to secure to shaft.



Disconnect white and green wires. Allow operator to close and then re-activate.

Be sure operator is at full open by forcing arm to rotate past its stop position. If you can rotate operator beyond this position, increase “BACK-CHECK” potentiometer until operator gets to full open.

DOOR FOOT LOCATION



The door foot will be located 16 inches from the hinge side of the door panel and level when rod is inserted in sleeve attached to power arm.



With the operator at full open, hold the steel rod next to the rod connector at the end of the arm. Mark the steel rod to indicate where to cut the rod so it will fit into the rod connector. Mark the panel for the door foot holes.

Cut the rod, and attach door foot to panel. With the operator re-activated, insert the rod into the rod connector until desired opening is achieved. Tighten setscrews to secure rod.

ARM POSITIONING for PULL UNITS

After header is secured, activate unit and open the door to ninety (90) degrees. Put the arm on so the end is rotated beyond the edge of the operator case. Locate door foot 16 1/2" from heel of door.



LOW VOLTAGE ACTIVATION CONNECTIONS

You must disconnect from the source of supply before attempting the installation of an accessory.

Along with your unit you received a manual for the B100S control. Review all pages for proper set up, switch options, and wiring schematics. The on/off toggle switch and any ancillary components you have ordered are pre-wired into the control. The toggle can be located in end of header or on jamb using a 1/2" drill bit. Keep in mind accessibility to use or misuse.

THIS UNIT IS TO BE USED WITH APPROVED SWITCHES AND OR SENSORS.

Typically you will use a wall mounted, hardwired push button. You must provide wire from the button to the unit. You can run the wires thru the knockouts on either end of the unit case. Connect one of each button wires to the black wire in gray cable and one of each to the red wires connected to #2 and #3 wire terminal strip. Refer to your diagram included in unit.

BE SURE ALL WIRING MEETS ALL STATE AND LOCAL CODES.

Another popular style of button has battery-operated transmitters. When ordered, you will receive a receiver pre-wired to the control. Be sure to connect battery in buttons to "COM" (common) and "N.O." (normally open). Each button and each receiver have code settings that must match. Refer to button paperwork for instructions on changing codes.

These must be accessible to persons in wheel chairs with a clear view of swinging door and out of the path of the door.

DECAL APPLICATION

We have supplied you with the correct door labels in your swinger package. One decal is round with the international Handicapped symbol, blue with white background. The second decal has "CAUTION AUTOMATIC DOOR" imprinted in black on a yellow background.



Both decals are double sided. They can be applied to the swing door at fifty-eight (58) inches plus or minus three (3) inches from finish floor in clear view.

FINAL INSPECTION

Before leaving site, test all activation devices and time your door. To reduce callbacks, instruct owner on the legal operation of door, how to turn on and off, "PUSH-n-GO" function, and warranty considerations.

As an installer, you may have a suggestion for improvements to swinger or our manual. Please feel free to call or fax us. Your expert input will help us provide you with the best operator possible.

THANK-YOU