

Installation and Care of Larco Automatic Door Mat Systems

Installation and Care of Larco Mats



Figure 1

Larco presence-sensing mat systems are among the most durable activating devices available. As with any device of this type, the user must comply with applicable local and national codes and regulations. The American National Standards Institute (ANSI), sponsored by the Building Hardware Manufacturers Association (BHMA), has published standards for power-operated pedestrian doors. ANSI Standard A156.10 contains information on proper selection, application, installation, maintenance, operation, training and responsibility for presence-sensing mat systems for power-operated pedestrian doors. Larco mat systems are designed to allow product users to easily comply with this standard. Carefully review this standard before attempting any installation or maintenance action.

To ensure the dependability and life expectancy of your Larco mat, please follow these general instructions carefully. Exercise special care when receiving your order and installing your system. Be aware that there may be additional instructions specific to your particular application. If you are missing these materials, please contact the factory. You can also download electronic copies of most of these materials from our Web site at www.larcomfg.com.

1. Surface Preparation

The surface on which the mat will be placed should be level, smooth and free of debris. The area must be swept thoroughly just prior to placement of the mat. Irregularities in the mounting surface greater than 1/8" (3mm) could affect mat performance and should be removed or filled prior to installation.

2. Unpacking the Mat

Do not cut mat shipping cartons with a razor knife, as accidental cutting of the mat and/or mat cord may occur. Remove the staples along one side from the wooden frame. Grasp the cardboard and tear it away from the wooden frame. Be careful; staples may be ejected as you pull the cardboard free.

Inspect each mat after it has been removed from its shipping carton. Ensure there are no bends, dents, kinks or obvious damage. Pay special attention to the corners and the cord.

3. Lifting and Carrying the Mat

The proper way to handle the mat is to grasp the long edges and lift, causing a slight bow down the length of the mat (see Figure 2). This method prevents the mat from bending across its width, which could cause a kink or bend in the internal electrode assembly. Place the mat cord on top of the mat before transporting to avoid a trip hazard or cord damage.

If a mat is larger than 24" x 36" (610mm x 914mm), additional help is recommended to lift, carry and position the mat. Dropping a mat on its corner can damage the mat and its internal electrode beyond repair.

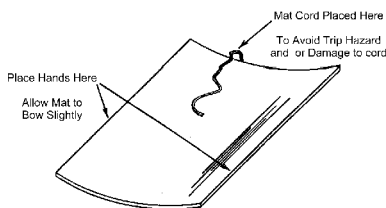


Figure 2

4. Electrical Inspection

Electrically test the mat prior to installation, especially if damage is suspected. Use an ohmmeter to check each mat after it has been removed from its carton and placed on a flat surface. For the purpose of this test, a closed circuit is defined as less than 10 ohms and an open circuit as at least 1,000,000 ohms (1 Megohm). There are two wires attached to each mat--one white and one with a black tracer.

First, test to ensure that there is an open circuit between the two wires by connecting the ohmmeter to each wire. This should be accomplished prior to applying any pressure to the mat. The reading should be 1,000,000 Ohms or more. With the meter connected as before, stand on the mat. The meter reading should drop to less than 10 Ohms. Repeat these tests on each mat being installed.

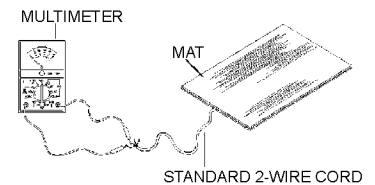


Figure 3

5. Proper Care of Mat Cord

After the mat is in place, use care in routing the mat cord to prevent damage to the insulation and/or the internal wires. Make sure cord passageways are free of burrs and sharp edges. If the mat cord exits under trim, groove or notch the trim or mounting surface to prevent pinching the cord when tightening trim (see Figure 4).

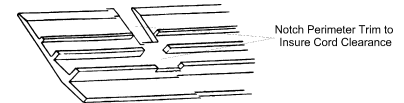


Figure 4

NOTE: Never make a cord splice at floor level where the presence of moisture is a possibility. Moisture may migrate through the cord and into the mat when watertight connections are not used. Make connections inside of the door jamb tube or up in the door header. Waterproof splice connectors are highly recommended.

6. Mounting the Mat

Place the mat and all trim, including threshold in position to verify fit. If a threshold is used, install it first. Using a 9/32" drill bit, drill the necessary holes and insert the threshold anchors provided. Fasten the threshold to the mounting surface using the #12 x 1-1/2" screws and anchors provided with all Larco threshold kits. Note: Carbide drill bits suitable for drilling in concrete or stone may be necessary depending on your application.

Next install the trim around the perimeter of the mat. Using the pre-drilled extrusion as a template for drilling, drill 1/4" holes and insert the anchors provided. Fasten the trim using the #10 x 1-1/4" screws provided with all trim kits.

7. Check for Safety

Once your automatic door system is installed, it is important to ensure everything is functioning in a safe manner. Do not use the door if it fails any of the safety checks recommended by your door's manufacturer or if it malfunctions in any way.

Important Notice - Please Read

This merchandise has been thoroughly inspected and carefully packaged. Damage claims should be made against the carrier as follows:

- Concealed loss or damage means loss or damage that does not become apparent until the merchandise has been unpacked. The contents may be damaged in transit due to rough handling, even though the package has no visible damage. Make a written request for inspection by the carrier's agent immediately on date of delivery and file a claim with the carrier.
- Visible loss or damage means any external evidence of loss or damage must be noted on the freight bill or delivery receipt and signed by the carrier's agent. Failure to accurately describe external damage or loss may result in the carrier refusing to honor the damage claim. Claim forms will be supplied by the carrier.

Save the carton and wrapping for carrier inspection - Do not return the damaged merchandise to Larco. File your claim with the carrier.

Any returns to Larco must have a Return Material Authorization (RMA) number obtained from Larco's customer service department. (800-523-6996).