



MAKO[®] EC
EXTENDED CABINET
INSTALLATION GUIDE

VERSION 2.0

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MAKO EC EXTENDED CABINET INSTALLATION GUIDE

PARTS SUPPLIED

4	3/4" Expansion Anchors	4	Flat Washers
4	3/8"-16 x 1.75, Hex Bolts	4	Lock Washers
1	Drill Template, Part Number 03075-10001		

REQUIRED TOOLS/EQUIPMENT

1	Heavy-Duty Electric Hammer Drill	1 ea.	1/4", 3/4" Drill Bits
1	Safety Goggles	1	Ear Plugs or Muffs (hearing protection)
1	Back-Support Belt	1	Portable Vacuum Cleaner
1	9/16" Socket		

A torque wrench (capable of 30 foot-pounds) is required to tighten the cabinet mounting bolts. Because of the limited space inside the cabinet the choice of tools is important. Three alternatives (A, B, and C) are listed below, in order of preference.

A	Torque Wrench (capable of at least 30 foot-pounds)	These are the preferred tools to use when tightening the cabinet mounting bolts.
A	Socket Extension Bar (at least 21 inches long)	
B	Torque Wrench (less than 11-inches long)	Use this if an extension bar is unavailable.
C	Standard Wrench (less than 11-inches long) and a Torque-limiting attachment	Use this if a torque wrench less than 11-inches long is unavailable.

TOOL USE/SAFETY

Observe ALL safety precautions for operating hand and power tools! Wear eye and ear protection while operating the electric drill!

USE A BACK-SUPPORT BELT WHEN LIFTING AND MOVING THE CASH DISPENSER!

SELECTING THE INSTALLATION LOCATION

Choosing the right location for your Cash Dispenser is very important. Security concerns suggest a location be chosen that is away from any door or external access point. Ideally, the terminal should be mounted as close to a back wall as possible. For marketing reasons, however, it may be desirable to locate the terminal near the front of your establishment, where your customers can easily locate it. Wherever you decide to locate the terminal, be sure to follow the recommended procedures for both mounting the terminal and for removing cash from it when the unit will be unattended.

UNPACK CASH DISPENSER

IMPORTANT

The Cash Dispenser is designed for indoor installation only!

1. Carefully inspect the unit for any shipping damage and report any damage immediately to the shipping company. Refer to the Warranty Information in the operation or service manual (as applicable) for information about reporting shipping damage.
2. Remove the unit from the carton by cutting the straps and removing the top of the box.
3. Remove the loose packing material from inside of the box.
4. Remove the Accessory Kit, which is attached to the front of the advertising/light panel.
5. Remove the silver key from the white plastic bag attached to the Cash Dispenser wrapping.
6. Stand the unit up.
7. "Walk" the unit out of the carton and remove the protective plastic bag.
8. Use the silver-colored key to unlock both the Control Panel and the Fascia door (which conceals the locking mechanism) on the front of the cabinet. Open the Fascia door.
9. Turn the handle on the locking mechanism to open the cabinet door. Open the door at least 90-degrees to improve access.
10. Unscrew the two retaining screws that secure the metal floor plate to the bottom of the cabinet. Lift out the floor-plate, as shown in **Figures 1 through 4**.

Retaining Screws



Fig. 1. Floor-Plate In Place.



Fig. 2. Unscrewing Retaining Screws.



Fig. 3. Floor-Plate Lifted.



Fig. 4. Floor-Plate Removed.

MARK/DRILL MOUNTING HOLES

CONCRETE STRENGTH

The floor at the installation location should consist of commercial-grade concrete, measuring at least **3000 psi** in compression strength. **The full effectiveness of the anchor bolts depends upon meeting this specification!** Check with the contractor/builder or owner of the installation to verify that this requirement can be satisfied.

Mark the location of the cabinet mounting holes on the concrete flooring. This can be accomplished in two ways, as described below:

- 1a. Preferred Method.** Place the included mounting hole drilling template on the floor in the designated location and tape it into position. **Be certain there are no physical obstructions that could prevent the cabinet from being installed in this location, or otherwise limit access to the unit!**

Use a center punch tool (or equivalent) to mark the center of each mounting hole, as indicated on the template. Use a felt-tip pen or other marker to *carefully mark the front corners of the cabinet*. These marks will serve as guides to align the cabinet in the final mounting position. Remove the template. **Figure 11** provides an example (not to scale) of the template.

- 1b. Alternative Method.** Move the Cash Dispenser to the location where it will be installed.

Locate the four anchor-bolt holes in the bottom of the cabinet (see **Figure 5**). Use a felt-tip pen or other marker to *carefully mark the center of each of these four holes on the floor and the front corners of the cabinet*. These marks will serve as guides to align the cabinet properly when it is moved into the final mounting position.

Move the Cash Dispenser aside, to provide clear access to the mounting hole marks.

Anchor-Bolt Holes

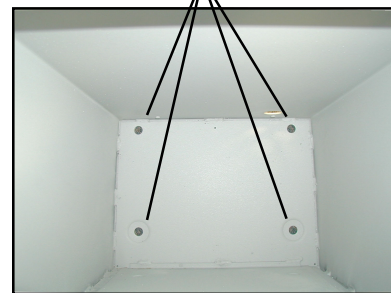


Fig. 5. Lower Cabinet Bottom.

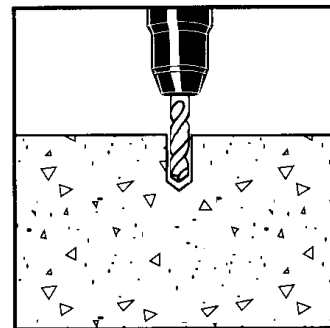


Fig. 6. Drill Pilot Hole.

2. Use a **1/4-inch** diameter carbide-tipped masonry bit to drill four pilot holes at the drilling points marked in the previous step. Drill the pilot holes approximately **1/2-inch** deep into the floor. See **Figure 6**. These holes will help guide the **3/4-inch** masonry bit that will be used to drill the anchor-bolt holes in the next step.
3. Use a **3/4-inch** diameter carbide-tipped masonry bit to drill four holes at least **1 3/4 inches** deep into the floor. See **Figure 7**. Be sure to take into account the depth of any floor covering, such as tile, carpet, or vinyl when gauging the depth of the anchor holes. *Make sure the holes are drilled at least **1 3/4 inches** into the concrete floor.*

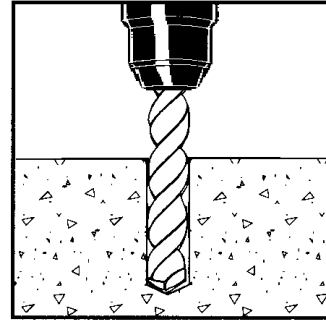


Fig. 7. Drill Anchor Hole.

****IMPORTANT****

Use a pencil or measuring rod to check the depth of each hole; the depth of each hole must be at least **1 3/4 inches** before continuing!

5. Use a portable vacuum cleaner to remove any dust or debris that may have accumulated in the holes during the drilling process.

BOLT CASH DISPENSER TO FLOOR

1. Note the two cone-shaped wedges at either end of the expansion anchor; one cone has a threaded bore. Place the four provided **3/4"** expansion anchors into the mounting holes that were drilled previously, **threaded ends first**.

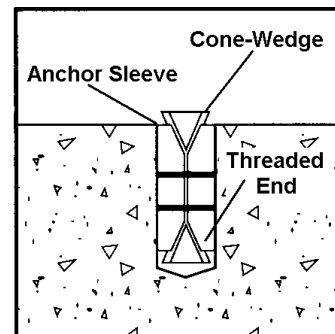
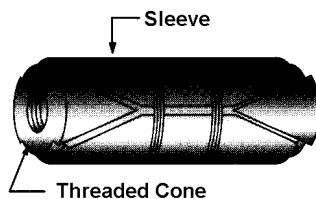


Fig. 8. Insert Expansion Anchor.

2. See **Figure 8**. The top of the expansion anchor sleeve must be flush with the mounting surface. The top cone-wedge will project slightly above the mounting surface, as shown.

3. Move the pedestal back into position for mounting. Align the mounting-hole cutouts in the pedestal base with the mounting holes.
4. Insert a **3/8-inch** security bolt through a provided lock washer, flat washer and into each insert. Attach a **9/16-inch** socket to a torque wrench and tighten each bolt to a setting of **30 foot-pounds**. Because of the limited access in the lower cabinet area, consider the following **three alternative methods of reaching the mounting bolts**:
 - a. (Preferred method) Use a wrench with an extension bar at least **21 inches** long to move the wrench outside the lower cabinet area. **Figure 9** provides an example of this approach.
 - b. Use a torque wrench shorter than **11 inches** to reach into the lower cabinet area to access the bolts.
 - c. Use a short (less than **11 inches**) standard wrench equipped with a **torque-limiting attachment** to reach into the lower cabinet area to access the bolts.
5. See **Figure 10**. Once the bolts are tightened down as specified in the previous step, replace the metal floor plate that was removed earlier. Secure the plate in place using the two retaining screws.
6. The installation of the Cash Dispenser cabinet is complete.



Fig. 9. Tightening Anchor Bolts (Preferred Method).

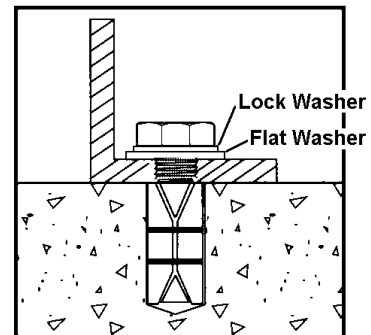
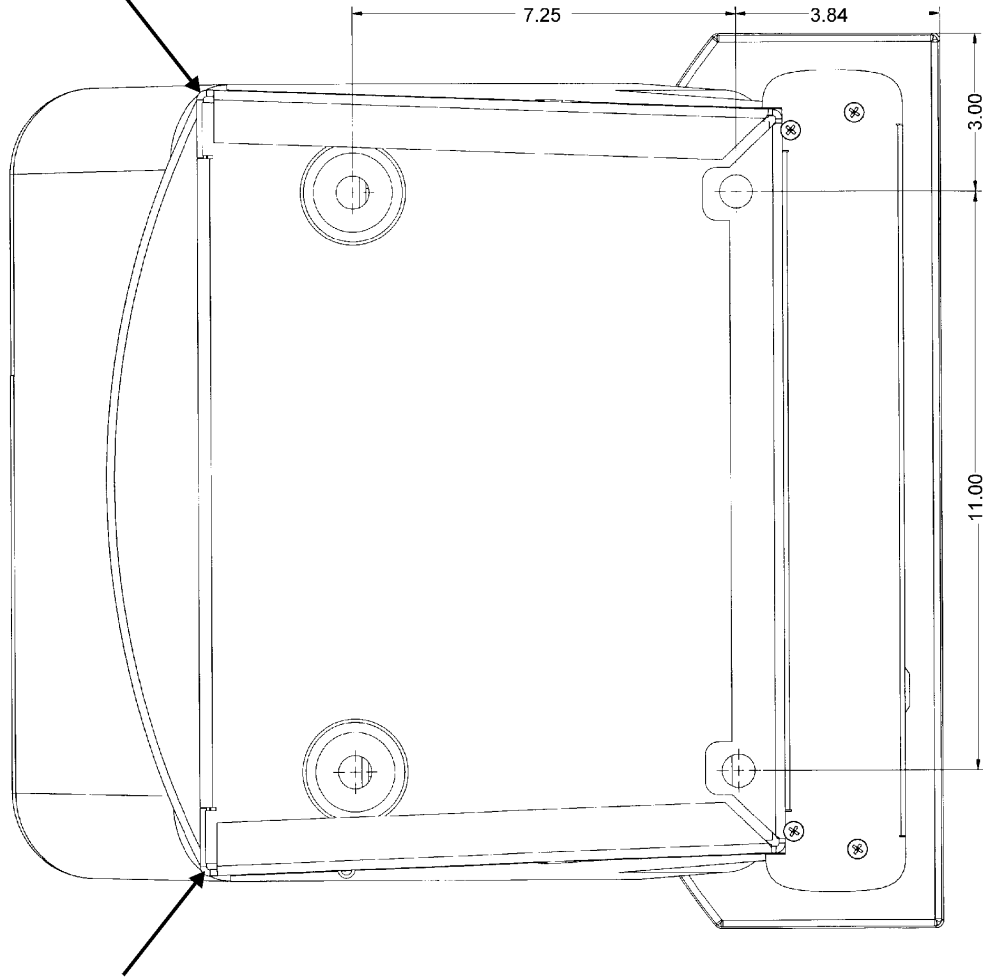


Fig. 10. Anchor Bolt Installed.

MARK FRONT CORNERS ON FLOOR
TO AID IN ALIGNMENT OF UNIT WITH
MOUNTING HOLES.



MARK FRONT CORNERS ON FLOOR
TO AID IN ALIGNMENT OF UNIT WITH
MOUNTING HOLES.

Fig. 11. Mounting Hole Drill Template Example (Not to Scale).