



Standard

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SYSTEM 600

Installation Instructions

SC Series Cabinets

Part #8M00369 Rev. 6



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Technical Phone Support is from 8:00AM to 7:30PM E.S.T., Monday-Friday
Walk-in Service is from 8:00AM to 4:30PM E.S.T., Monday-Friday
Parts Department is from 8:00AM to 6:00PM E.S.T., :Monday-Friday

SYSTEM 600 BILL CHANGER INSTALLATION INSTRUCTIONS

Congratulations . . .

Bill changers manufactured by Standard Change-Makers, Inc. are designed for wall mounting, through the wall mounting and stand alone console type mounting. Because of great variations in the physical layout and constructions of each location, care should be taken to insure that your changer is securely mounted and properly located for maximum use by your customers. To assure proper operation and installation of your new changer the following installation suggestions should be observed.

IMPORTANT CONSTRUCTION NOTE:

A Standard Change-Makers' change machine is considered an electro-mechanical device. That means the circuits and components operate best when proper precaution and care are provided. **The following should be observed before, during and after installation** of this change machine:

- **Cover the face of the machine (with plastic) and keep the cabinet door closed anytime construction is taking place in the facility where the machine is located.** Failure to do so can result in poor performance or start up failure that results from heavy deposits of construction debris, paint, and/or dust entering the machine and settling on sensitive electronic components.
- **Remove or cover the coin hoppers when drilling into the cabinet walls.** This will help prevent metal shavings from getting in the coin hoppers and causing problems at start-up.

FAILURE TO DO SO COULD VOID THE MANUFACTURER'S WARRANTY

Points to Consider When Determining the Location of Your Changer

1. Ease of accessibility by your customers.
2. Proper height from the floor. This will vary depending on the model of the changer. ANSI specifications for accessibility for the handicapped call for all controls, bill and coin insertion slots and coin cups to be no higher than 48 inches (1220 mm) or less than 15 inches (380 mm) from the floor.
3. Full swing of the door when open to allow easy access for filling or emptying machine and routine maintenance. If mounted in a framed stud wall a level platform will be required. Proper support to the bottom of the rear load changer is essential.
4. Wall construction: For maximum security, it is recommended that the changer be installed on a wall made of cement block, brick or other type of masonry.
5. If it is necessary to mount your changer on a stand, we recommend the Pedestal Stand manufactured by Standard Change-Makers, Inc. (P/N 5X00121 Almond – 5X00122 Black) This stand, specifically built for your model changer can be located almost anywhere in your location. If you wish to mount the stand to the floor, a floor mount template **may be** included.
CAUTION: CHANGERS MOUNTED ON FLOOR STANDS ARE TOP HEAVY. The changer must be secured to a rigid vertical surface, as well as to the stand, to provide complete security and stability.
6. Rear loading changers (through the wall mountings) should always open into a secure location that has a locked door and no windows.
WARNING: We do not recommend welding the cabinet to any kind of mounting. Welding can cause unwanted warping of the cabinet as well as damage, to the internal components. This could very well void your warranty.
7. Good lighting is highly recommended in the area that your changer is located not only for your customers but for additional security as well.
8. Accessibility of power supply. (120 volt/ 60 hertz on it's grounded circuit) 10 amp recommended minimum.
9. Car wash locations will want to locate their changers out of reach of high pressure hoses.

Any deviation of these guidelines will void the machine's warranty.

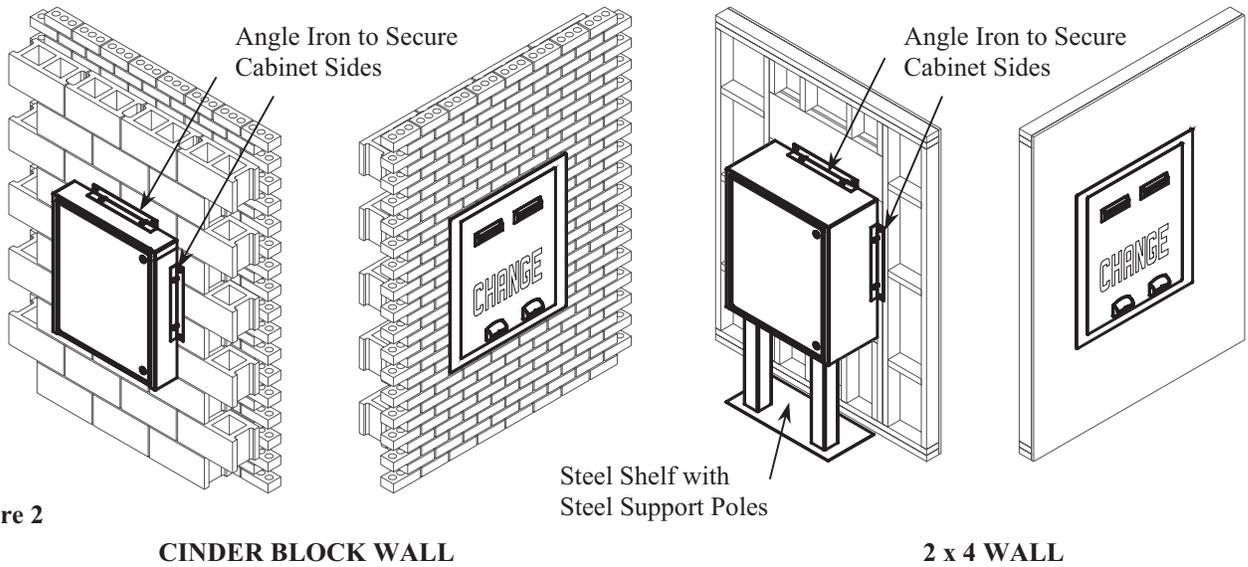


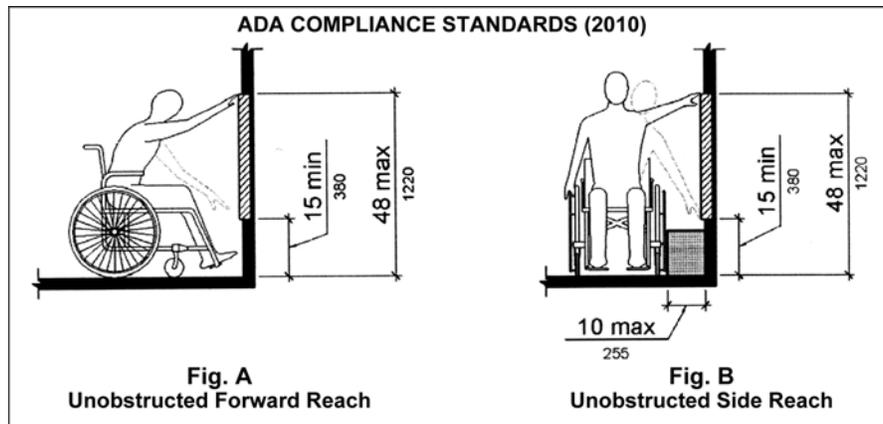
Figure 2

CINDER BLOCK WALL

2 x 4 WALL

CAUTION

We do not recommend welding the cabinet to any kind of mounting. This can cause unwanted warping of the cabinet as well as internal component damage.



Below is a chart listing each MC cabinet model and the corresponding **MAX INSTALLATION HEIGHT** necessary to comply with the ADA requirements. The measurement shown is taken from the base (bottom) of the machine to the floor. Additionally, ADA requires a 30” (760mm) by 48” (1220mm) “clear floor space” to provide sufficient clearance for a single wheelchair and occupant.

ADA COMPLIANCE STANDARDS (2010)
STANDARD CHANGE-MAKERS, INC. – CHANGE MACHINES
 SYSTEM 500 & SYSTEM 600 SERIES CHANGERS

SERIES Cabinet Model	ADA Requirements Maximum Installation Height Floor to Cabinet bottom (inches)		Base Height (inches)	Header Height (inches)
	No Coin Acceptor	With Coin Acceptor		
	18.00	18.00	23.75	14.00
SC40 / SC40-DA	19.50	19.50	22.00	N/A
SC50-TIK	23.00	23.00	24.75	N/A
SC60	25.25	25.25	24.75	N/A
SC90	N/A	N/A	N/A	N/A
SC20RL	20.75	20.75	NA	NA
SC30RL	20.75	20.75	NA	NA
SC30RL-DA	20.75	20.75	NA	NA
<p>* The Bases for the SC Series Changers no longer meet ADA Max Reach requirements of 48” for straight on or side access. Machines that are grandfathered under the pre-2010 requirements still meet the 54” Max Reach requirement for Side Access.</p>				

Mounting the Changer Cabinet

NOTE: If the floor is uneven, the stand can be warped when the mounting bolts are tightened to the floor. It may be necessary to shim one or more corners of the stand. If this condition is not corrected, distortion of the cabinet can occur when it is attached to the stand.

1. After the site for your changer has been prepared, open the cabinet door of the changer and:
 - a. For front load changers – If your machine was shipped with the hoppers installed, the shipping clips must be removed. The shipping clips are located inside the hopper access door. Remove all hoppers from inside the cabinet. If the hoppers have been shipped in separate carton(s), do not remove or disconnect any components. (see page 6 FIG 1-4 for sample shipping clip installation.)



FIG 1 Shipping Clip to secure hopper



FIG 2 Shipping Clip Installed at top



FIG 3 Head on View of System 600



FIG 4 Secured System 600 for shipping

- b. Use $\frac{1}{2}$ inch diameter bolts for mounting the cabinet.
- c. Make sure that the cabinet is level and the mounting surface is flat.

CAUTION: Even a slightly uneven surface can cause cabinet distortion when the mounting bolts are tightened. This can cause the door to fit unevenly when closed. This distortion can occur more easily on the large cabinets. Should this occur, it may be necessary to shim one or more of the cabinet corners.

- 2. Be sure that the inside of the cabinet as well as all changer components (stacker, hopper, note acceptor and power supply) are free of metal shavings and other debris prior to powering up the machine.
- 3. After mounting the cabinet, replace any components that were removed. Remove hopper(s) from their cartons and install them in the cabinet. Plug in all electrical connectors. (The hopper connectors are located inside the access door of the hopper).
- 4. Remove all packing materials and straps from inside the cabinet. Some items have yellow tags with removal instructions. Multi-compartment stackers have cardboard spacers which must be removed before operation.
- 5. Remove shipping bracket from the bill acceptor.

Electrical Hook-Up

WARNING: Never connect or disconnect electrical cables with power on.

<p><u>CAUTION:</u> It is recommended that electrical connections be performed by a qualified electrician and that you should check the local building codes for compliance.</p>
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- 1. The cabinet has a $\frac{7}{8}$ diameter hole for electrical connection. This cut out is sized for $\frac{1}{2}$ inch conduit fittings. Some models have several cut outs allowing alternate wiring inlets.
- 2. It is recommended that 110VAC wiring to the changer be installed on a dedicated line with an isolated ground wire (3rd wire) connected to the ground bus bar on the main service panel. A dedicated line is a circuit which has no other equipment connected on the same circuit breaker or fuse.

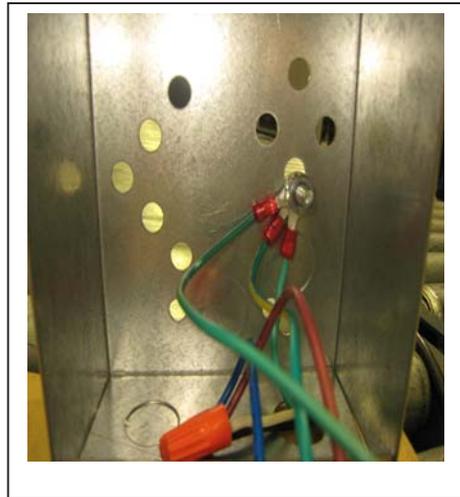
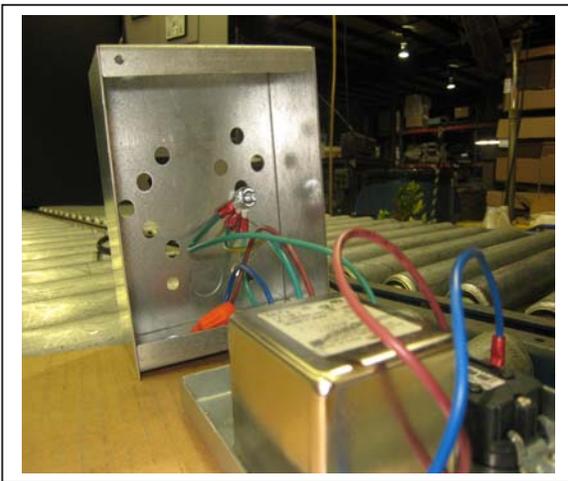
3. The purpose of a dedicated line is to reduce the possibility of electrical interference created by other equipment that utilizes large induction motors (pumps, compressors, etc.) which may cause the changer to malfunction. The changer is equipped with an electrical filter network to reduce noise on the 110VAC input line voltage. In order for this filter to function the machine must be connected to a proper ground. The integrity of the ground can be checked by measuring the voltage between the white wire and hot (black wire) and the voltage between the green wire and hot. These two readings should not differ more than 0.8 volts A.C.

NOTE: Additional surge protection is recommended in locations utilizing industrial machinery, i.e., factories. Surges generated from faulty or overloaded motors can exceed the changers internal suppression capabilities resulting in unnecessary down times. Contact nearest Standard Change-Makers, Inc. for recommended models.

NOTE: TEMPORARY HOOKUPS: Never allow access to the power plugs. Power cable feed should not exceed 100 feet in length.

NOTE: An improperly connected machine may void your warranty.

4. Recommended procedures for connecting incoming power to your changer:
 - a. Remove the cover plate and receptacle from the junction box. Do not remove the grounding jumper from the receptacle. This connection is required for a proper ground.
 - b. Connect the grounding wire (green or bare wire) from the supply line to the threaded stud found in the center of the junction box.



- c. Connect the white supply wire to the silver screw of the receptacle. The silver screw is on the side of the receptacle with the longer slot.
- d. Connect the black supply wire to the brass colored screw of the receptacle. The brass screw is on the side of receptacle with the smaller slot.
- e. Reinstall the receptacle and cover plate.

Installing Your Front Load/ Wall Mount Changer

Wall Construction

For maximum security, it is recommended that the changer be installed on a wall made of cement block, brick or other type of masonry, not a stud wall covered by plaster board. The mounting holes on the back of the changer will fit ½ inch diameter bolts.

Installing Your Rear Load Changer

The rear load changer cabinet must slide through the hole in the wall. It's front-plate, which extends two inches beyond the cabinet on either side, top and bottom will be tight against the wall surface. The cabinet is 18 inches deep.

It's protrusion into the back room will be the difference between this depth and the thickness of your wall. Allow for the door swing at approximately the cabinet width. Angle iron should be used for securing the changer in place. One side of the angle iron should be secured to the side of the cabinet while the other side of the angle iron secures against the inside of your wall. (See page 3 of this Installation Guide.)

For Outdoor Installations

Use either silicone or RTV caulking for a water tight fitting. Create a large bead behind the front plate and cabinet side on all four sides before sliding through the hole in the wall.

Installing Your Console Model Changer

The SC90 Series Cabinet is designed to sit on the floor. One half inch diameter mounting holes are inside the bottom section of the cabinet. A locked door provides access for easy installation. Should they be needed, there are four holes for the levelers in the bottom of the cabinet. **Note that an 18 inch space above the cabinet is required to allow the cabinet top to swing up to facilitate loading the hoppers.**

Installing a Pedestal Mounted Changer

The pedestal floor stand is designed for the SC60 Series Bill Changers. It allows you to locate the changer exactly where you want it. Bolt the stand to the floor (4 mounting holes). A floor mount template is included. Once properly secured to the floor the changer is bolted (4 mounting holes) to the stand, or to the wall for maximum security.

Testing Your Machine Operation

System 600 Changers

When the installation has been completed, open your System 600 Installation and Instruction Manual to Section 3.0 "Programming and Auditing." Follow the instructions found in that section on programming the machine. Test each machine function for proper pay out and operation.

All Other Machines

When the machine installation has been completed, open your Installation and Instruction Manual. Follow the instructions as required.



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