Time Commander II® Electronic Time Lock

Installation Instructions

This Sargent & Greenleaf Time Commander II electronic time lock combines ease of operation with security. Advanced electronic circuit design makes it easy to program and operate. Follow these instructions carefully to get the best possible performance from your lock.

MOUNTING CONSIDERATIONS

- The Time Commander II is designed to interface with any Sargent & Greenleaf 6120 series Motorized Electronic Combination Lock (6120, 6121, 6123, 6124, and 6125). Connection to any other lock or device is not recommended.
- Installation of this device and its associated components requires drilling, tapping, proper location of components, and possible modifications to existing safe hardware. S&G recommends installation only by an experienced, qualified safe technician or locksmith.
- **Modifications to the Time Commander II case and components are not recommended, and will void the manufacturer's warranty**.

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Installation Notes . . .

Although the Time Commander II (**TC-II**) is relatively easy to install, we recommend installation be performed only by an experienced locksmith or safe technician. Your safe may incorporate relock devices that are attached to the combination lock. Misalignment or detachment of these devices can result in a lockout—a condition in which the safe cannot be opened without damage.

Additional Items You Will Need . . .

Many installations will require only a medium phillips (cross head) screwdriver, a small screwdriver with a flat blade, one or two additional wire ties with self-adhesive tie wrap block, and either an 8-32 or M4 tap with appropriate size metal cutting drill bit and drill motor. If modifications to the safe's relock device plate are required, specialized tools and knowledge will be required.

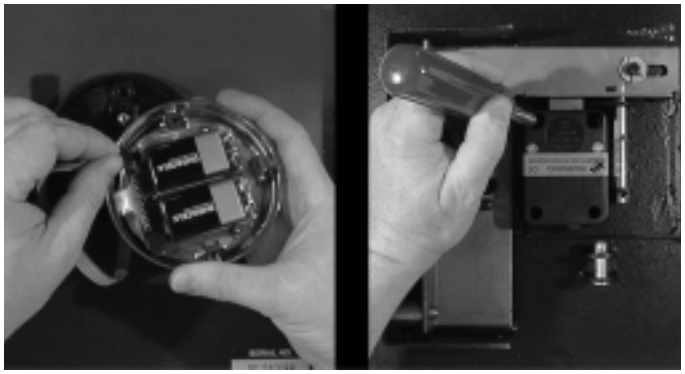
Whenever self-stick tape is applied to a metal surface, we strongly recommend the metal first be thoroughly cleaned with isopropyl alcohol. Always use this substance in a well ventilated area, away from open flame or other ignition sources.

Installation . . .

Step 1 (if the lock is not yet mounted to the safe, go directly to Step 2)

Unmount the safe's Comptronic® lock if already present. Remove the keypad by pulling it off its mounting base, then disconnect the lock cable by grasping the cable connector and pulling it out of its socket on the underside of the keypad.

Use a phillips (cross head) screwdriver to remove the mounting screws so the lock can be removed from inside the safe door. Do not stress the cable during removal.



Step 2

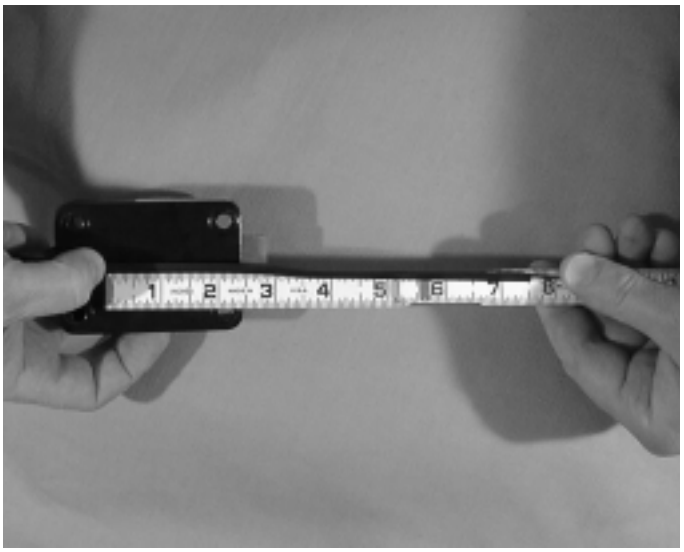
Carefully peel the lock cable and sticky foam pad from the lock case. Do not stress the cable where it enters the lock case.

Completely remove the foam pad from the cable. Do this gently, as the sticky foam will be used later.

Step 3

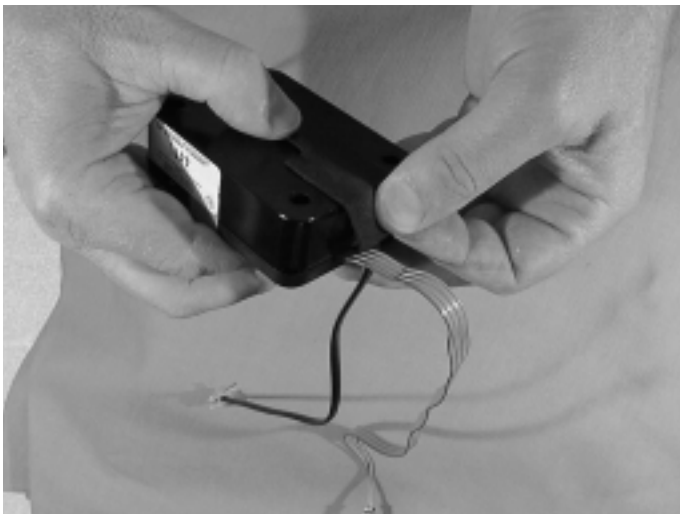
Find the TC-II cable that has a phone-style connector on one end and a keypad (Hirose) connector on the other. This cable will be mated to the lock case in a manner that leaves enough free cable to allow easy keypad connection later.

Place the cable on the underside of the lock as shown, so that the Hirose connector is about 8 inches (20 cm) PLUS the thickness of the safe door from the point on the lock case shown in the photo. These dimensions can be approximated.



Step 4

Maintaining the placement of the cable achieved in the previous step, place the sticky foam over the lock case and TC-II cable as shown. It should be placed in nearly the same position as it was when holding the original lock cable against the lock case. Leave the original lock cable free. It should NOT be placed under the foam.

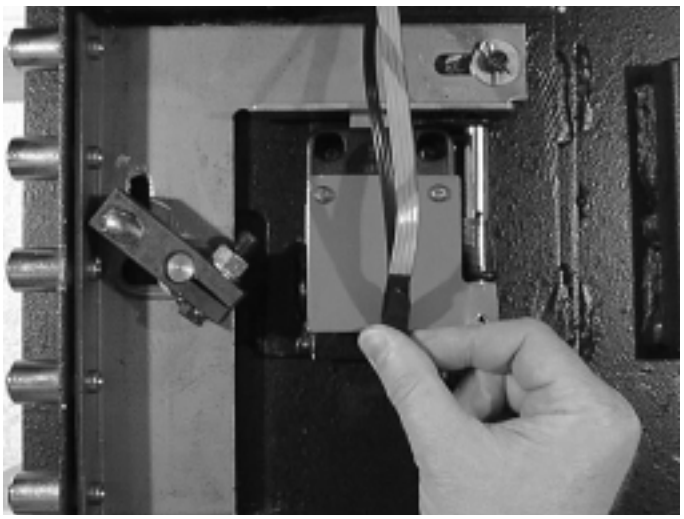


Step 5

Remove any burrs or sharp edges from the safe door's spindle hole. Install the lock case to the safe's mounting plate, routing the TC-II keypad cable through the spindle hole. Avoid crushing or kinking the cable under the lock.

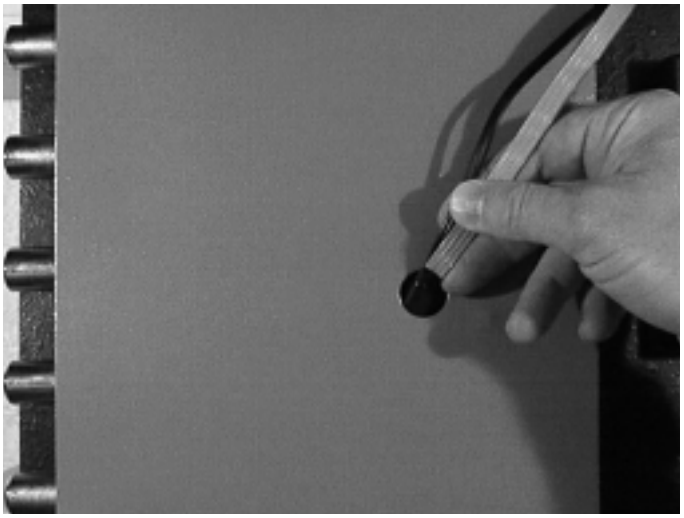
If the safe is equipped with a relock device, attach it to the lock case at this time.

Wrap the lock cable and TC-II keypad cable together in several layers of electrical tape where they will pass through the safe's boltwork cover plate.



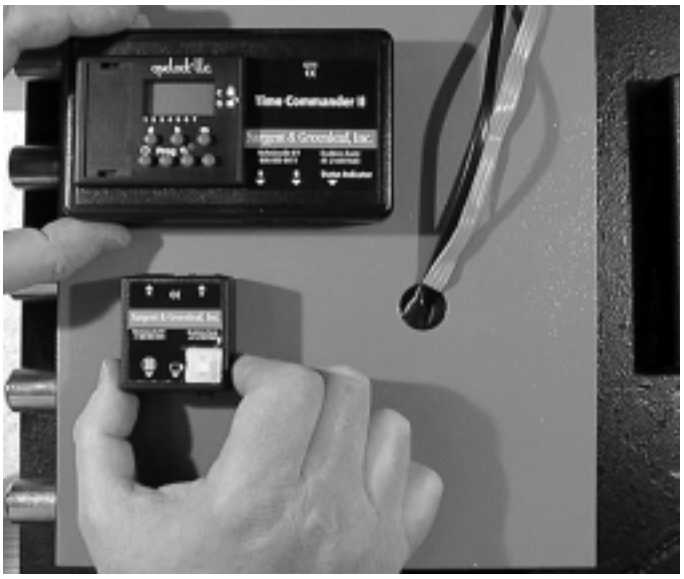
Step 6

Most safes will already have a suitable hole through the back plate. If this hole is not present, or if it is not in a good location for the cables, make your own hole in a good location. Make sure the cables will not come in contact with a shelf of other obstruction inside the safe when the door is closed.



Step 7

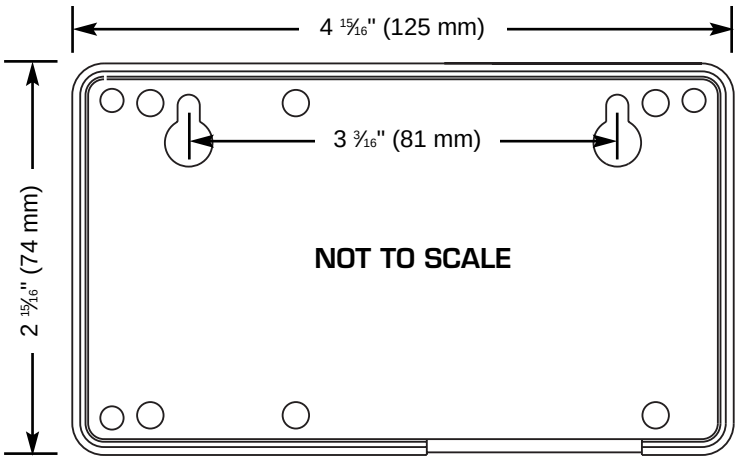
Determine a good placement for the TC-II module and cable junction box on the safe door's back plate or other suitable location. Again, make sure the components will not come in contact with a shelf, interior door, or other obstruction when the door is closed during normal safe operation.



Step 8

Once you have determined good placement for the TC-II module, drill and tap two holes through the safe door's back plate on which to mount the module. Center to center hole placement is 3 3⁄16" (81 mm).

Two sets of machine screws are provided, 8-32 (silver colored) and M4 (bronze colored). Use the set most convenient for you.

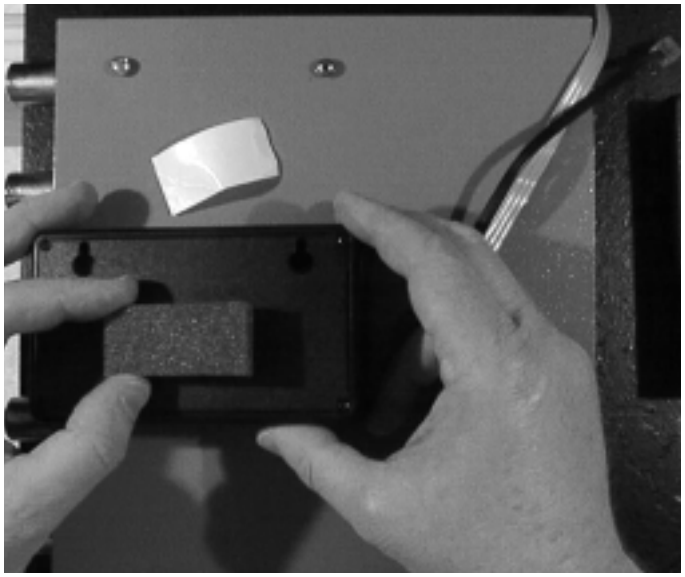


case depth (not illustrated) = 1 ¼" (31 MM)

Step 9

Install the screws far enough into the boltwork cover plate so their heads will fit snugly into the keyhole slots on the rear of the TC-II when it is installed. To help supply adequate holding pressure, remove the paper covering the sticky side of the supplied foam pad, and stick it to the back of the TC-II.

Place the TC-II in position over the screw heads, and slide it into place. It should be held firmly by the screw heads. If not, remove the TC-II ,turn the screws in a little farther, then re-install the case.



Step 10

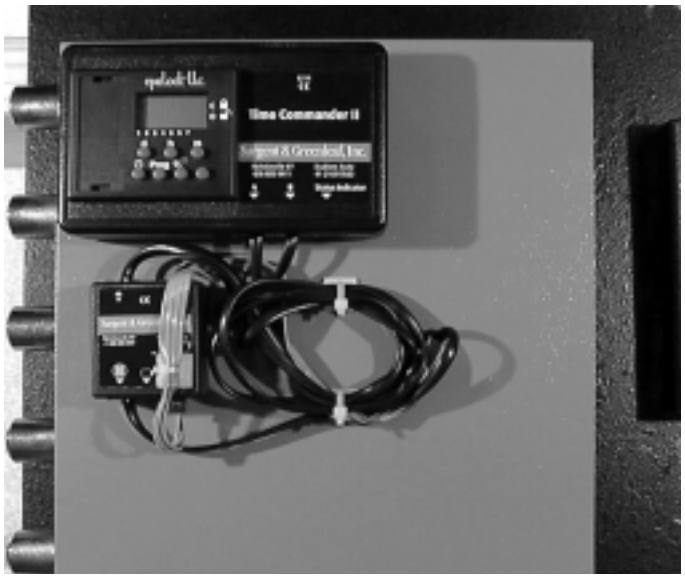
The junction box can be attached using the double stick tape provided. Once it is fixed in place, attach the lock cable to the Hirose socket in the junction box (marked with a lock icon), and plug the keypad cable into the phone-style socket (marked with a keypad icon).

Use a wire tie (included) through the tie wrap block on the junction box to secure the lock cable. This will keep it from accidentally pulling out of its socket and causing a safe lockout.

Step 11

The two remaining TC-II cables are identical, each having phone-style connectors on both ends. One should be connected to socket A on the TC-II module and socket A on the junction box. The other should be connected to socket B on the TC-II module and socket B on the junction box.

Excess cable can be looped and secured with additional tie wraps and tie wrap blocks (not provided). Remember to keep components and cables out of line with safe shelves and other obstructions.



Step 12

Using a small, flat blade screwdriver, gently remove the battery holder. Insert an 'N' size, 1.5 volt alkaline battery, observing the polarity markings printed in the holder.

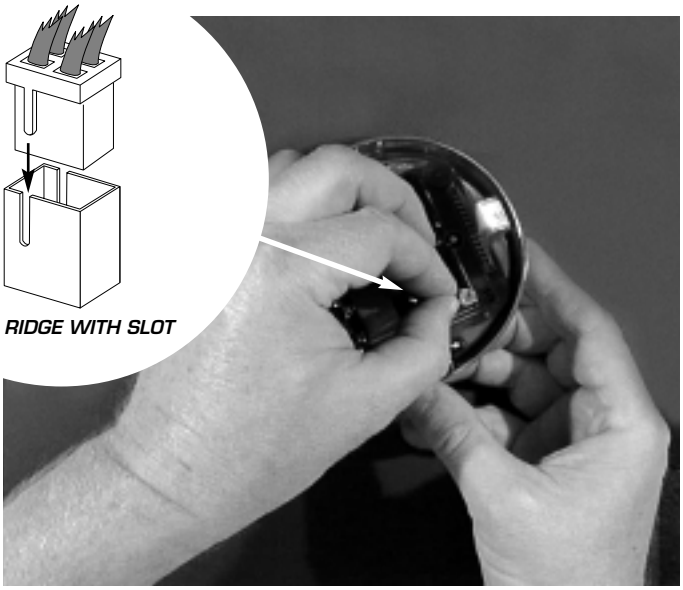
Re-install the holder, making sure it is completely seated in the module. The Time Commander's LCD screen should now display characters.

Step 13

Plug the keypad connector into the socket on the underside of the keypad. Then install the keypad on its mounting base.

The installation is complete. Refer to your lock's Operating Instructions for opening, code changing, time delay, and battery changing instructions. Refer to the Time Commander II Operating Instructions for programming and operation information.

MAKE SURE THE TIME COMMANDER II AND YOUR LOCK ARE FULLY OPERATIONAL BEFORE CLOSING THE SAFE DOOR FOR THE FIRST TIME.



ALIGN RIDGE WITH SLOT

Cable Connection Diagram . . .