



INSTALLATION INSTRUCTIONS:

TEL-A20

Use with Series: Trident

Tool(s) Required: Pencil or marker
5mm Hex Key
Medium Phillips Screwdriver
Long Slotted Screwdriver
Drill
1/8" to 3/4" Drill Bits
3/8" Hex Driver

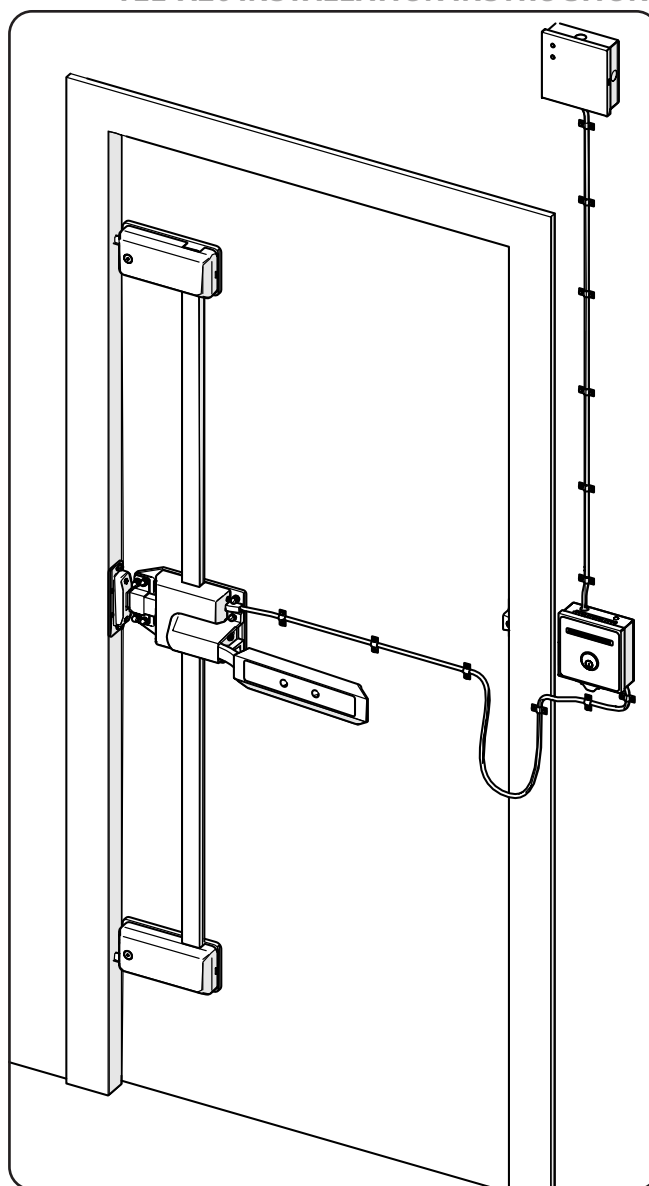
Damage caused by misuse of power tools is not covered under Warranty.

NOTE: Parts received may be slightly different from parts shown in instructions.

Please refer to packing list for details on parts and fasteners received.

Please leave these instructions on site for future reference.

TEL-A20 INSTALLATION INSTRUCTIONS



Questions? Please call Tech Support
718-392-9000



54-60 46th St., Maspeth, NY 11378
www.securitech.com
718-392-9000

Call Tech Support for questions: 718-392-9000



Before beginning the installation:
Check that everything in the parts list was received.
Read all of the installation instruction steps.

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A. DIRECT POWER ALARM THEORY OF OPERATION

The TEL-A20 wall alarm is a directly powered alarm with battery backup for single doors with Trident locks installed.

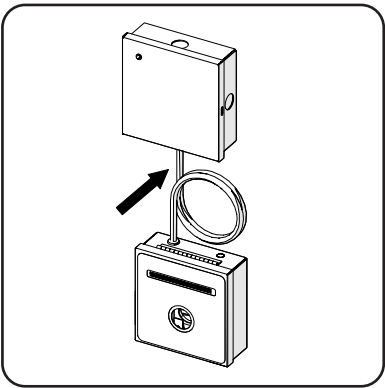
The alarm is triggered when the lock is opened or the alarm unit is tampered with.

The alarm can only be armed and disarmed by key.

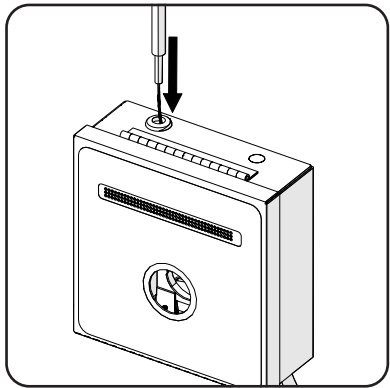
Optional Last Door Out (LDO) functionality allows a 20 second delay when arming in order to exit.

B. CONNECTING POWER SUPPLY TO ALARM BOX

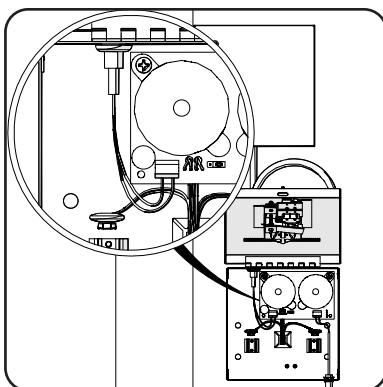
The power supply may already be installed on received unit. If so, skip this section and move onto instructions for installing the cylinder.



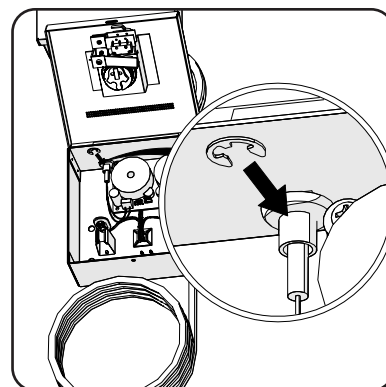
1. Insert the side of the cable with loose wire ends into the rubber grommet on the top-left of the alarm box.



2. Insert stripped wires into the screw terminal indicated and screw down to secure. Polarity does not matter.

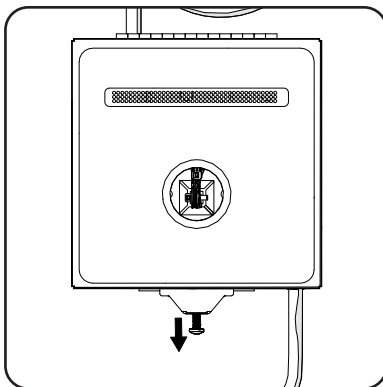


3. Leaving a small amount of slack in the wires, attach e-clip as shown around the armored cable so it cannot be pulled out.

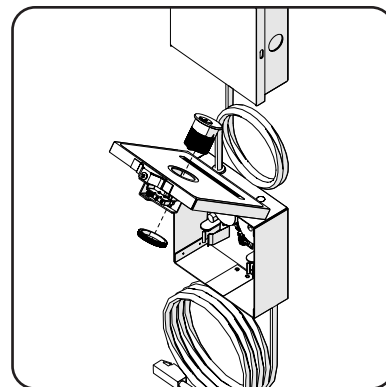


C. ALARM CONTROL CYLINDER INSTALLATION

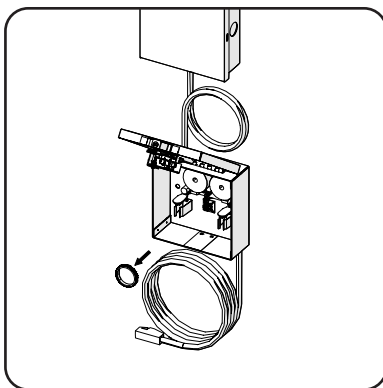
1. Using a Phillips-head screwdriver, unfasten the anti-tamper screw until it spins freely. Do not remove the screw completely.



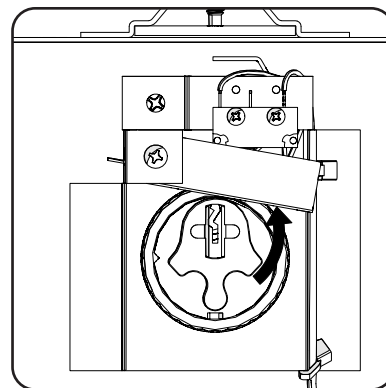
3. Insert the cylinder into the hole in the lid as shown, secure with locking ring.



2. Lift the lid and retrieve the cylinder locking ring from inside.

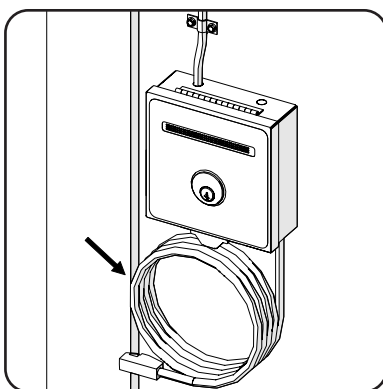


4. Check that the cam on the back of the cylinder depresses the arm and actuates the switch below when turning the key to disarm.

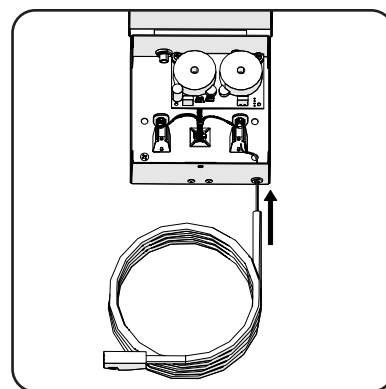


D. CONNECTING ALARM CABLE TO ALARM BOX

The alarm cable may already be installed on received unit. If so, skip this section and move onto instructions for fastening the armored cable to the wall and door.

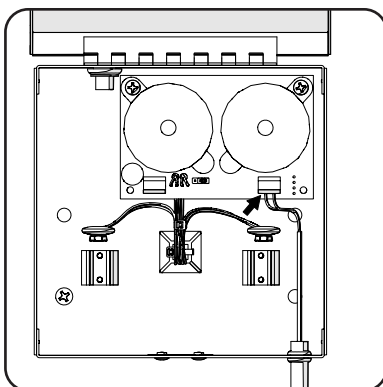


1. Insert the side of the cable with loose wire ends into the rubber grommet on the bottom-right of the alarm box.

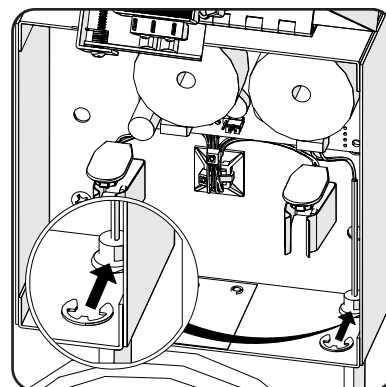


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2. Insert stripped wires into screw terminal indicated and screw down to secure. Polarity does not matter.

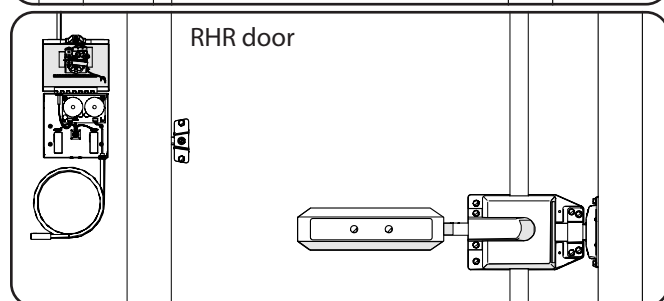
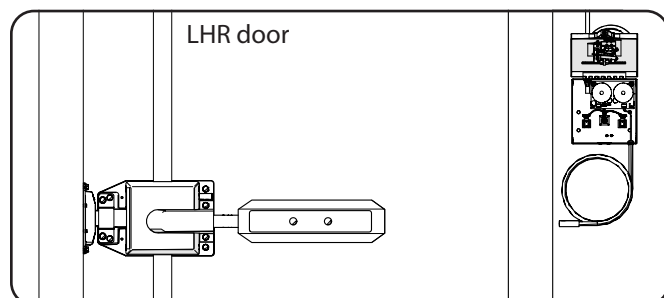


3. Leaving a small amount of slack in the wires, attach e-clip as shown around the armored cable so it cannot be pulled out.

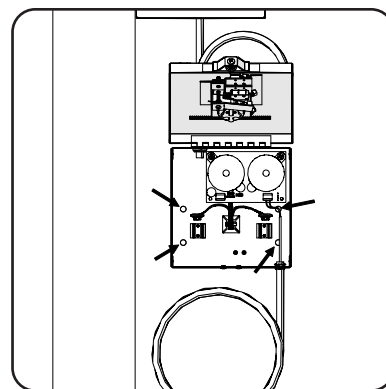


E. MOUNTING THE ALARM TO THE WALL

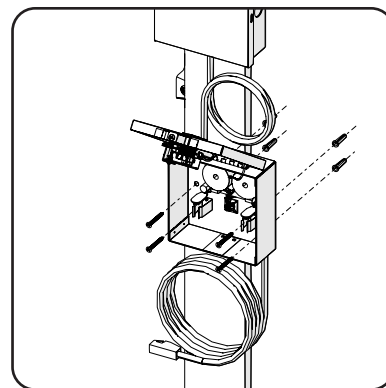
1. On the hinge side of the door, position the alarm box against the wall as shown. The bottom of the box should be approximately 3" above the top of the lock.



2. Using the indicated holes in the back of the alarm box after positioning, mark the locations to pre-drill holes for mounting hardware.

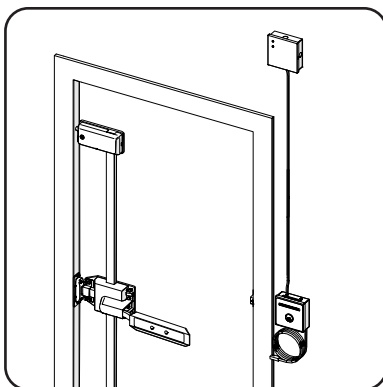


3. Mount the box using the hardware appropriate for the installation surface. Mounting screws and anchors are provided.

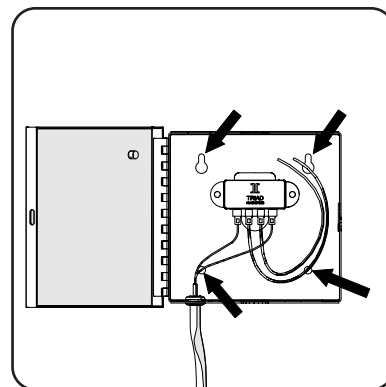


F. MOUNTING THE POWER SUPPLY TO THE WALL

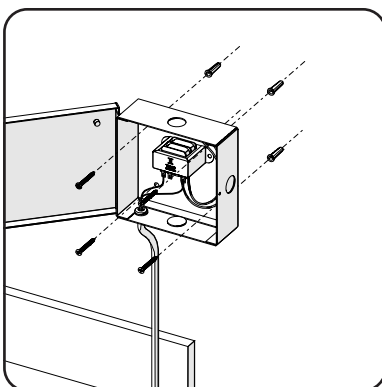
1. Directly above the mounted alarm box, position the power supply box so that it is as high as the armored cable will allow. A 4-foot power cable is provided with the power supply.



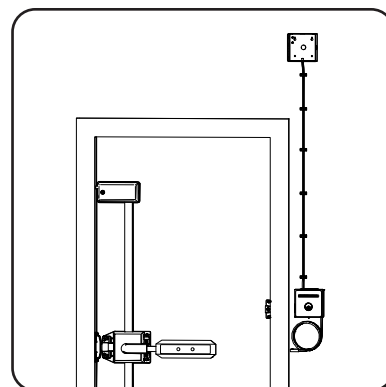
2. Using the indicated holes in the back of the alarm box after positioning, mark the locations to pre-drill holes for mounting hardware.



3. Mount the power supply using the hardware appropriate for the installation surface. Mounting screws and anchors are provided.

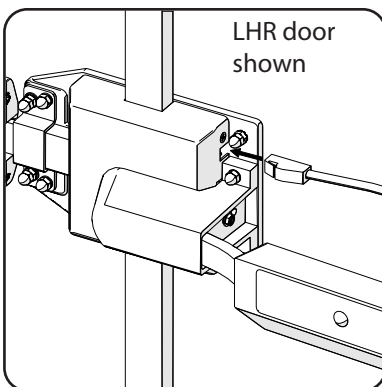


4. Using included cable clips secure the armored cable to the wall as shown.

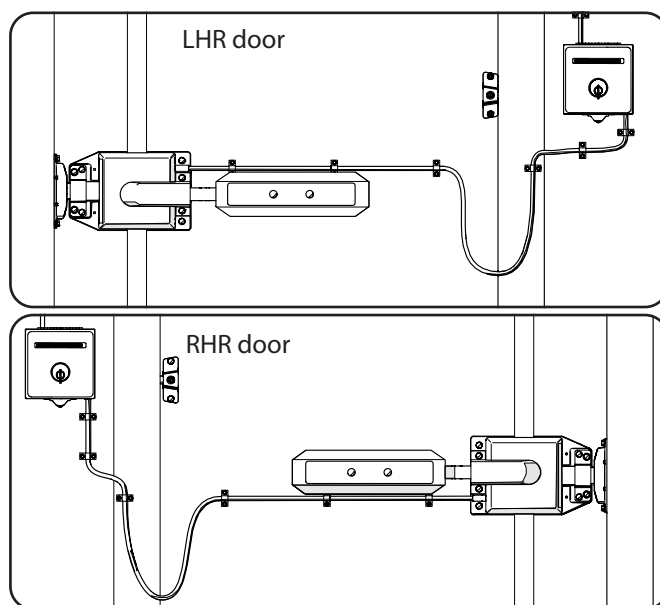


G. FASTENING THE ARMORED CABLE TO THE WALL & DOOR

1. Plug the armored cable into the hole in the edge of the lock as shown. (LHR is shown, on RHR installations the hole will be on the bottom left of the lock). Once inserted, this cable can be difficult to remove from the lock. See the section on removing the armored cable for instructions.



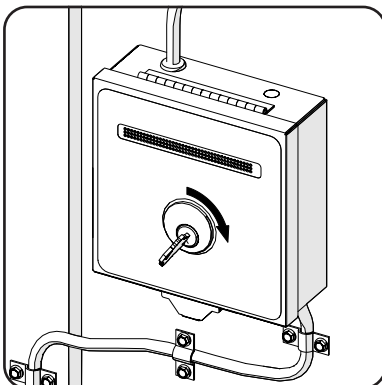
2. Using included cable clips secure the armored cable to the wall, frame, and door as shown. Leave an approximately 10" loop of loose armored cable between the frame and door.



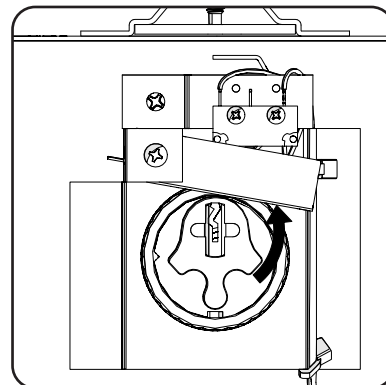
3. Test that the door will open and close without pulling or pinching the armored cable.

H. POWERING UP & ARMING

1. Insert the key and turn clockwise until it stops. Leave the key inserted and open the lid (Unscrew the anti-tamper screw on the bottom of the lid until it spins freely if it's not already loose).

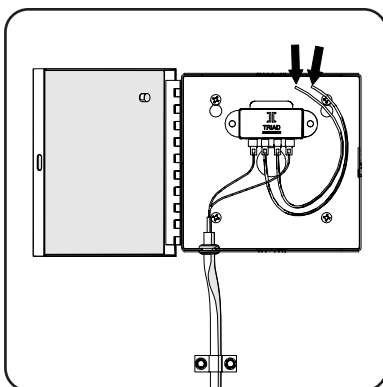


2. Check that the cam on the back of the cylinder depresses the arm and actuates the switch below when turning the key to disarm.

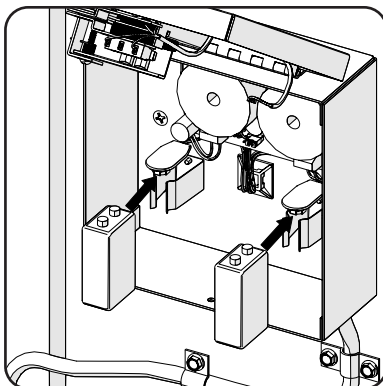


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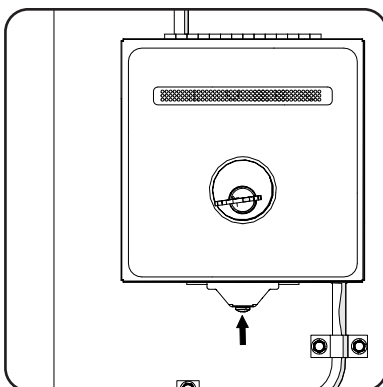
3. Connect the power supply to external 120VAC power using the indicated black and white wires with provided wire nuts. Close the power supply and secure with provided screw.



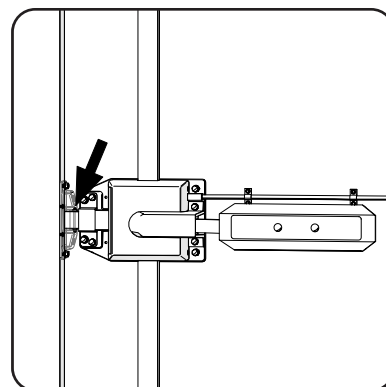
4. Plug battery connectors onto 2 provided 9V batteries and insert into clips as indicated. Be careful to not pull the battery wires when connecting the batteries.



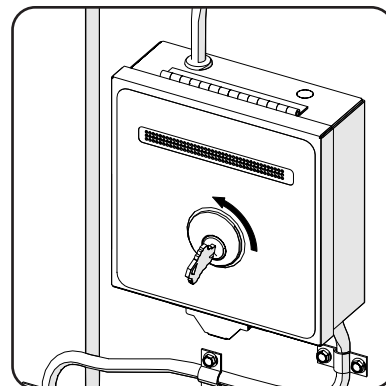
5. Close the lid and screw the anti-tamper screw all the way in. Do not overtighten.



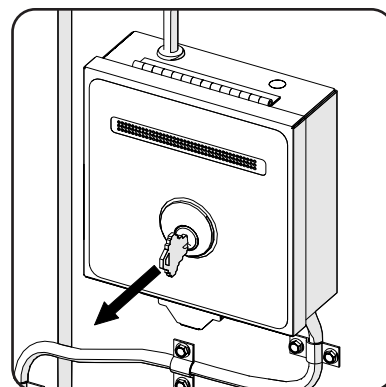
6. Make sure the deadbolts on the Trident lock are fully extended.



7. Turn the key counter-clockwise to the center. The alarm will sound twice (many mistake this for the alarm failing to arm, wait until it sounds twice).



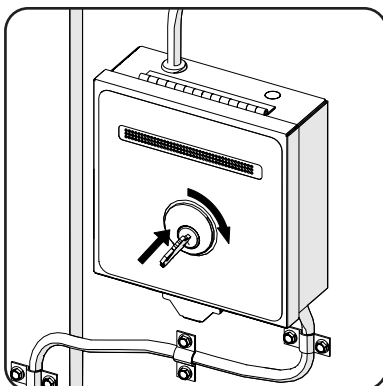
8. If the alarm continues to sound more than 2 times, insert the key and turn clockwise to disarm and see the troubleshooting section. If it stops then the alarm is armed and the installation is finished and the key can be removed.



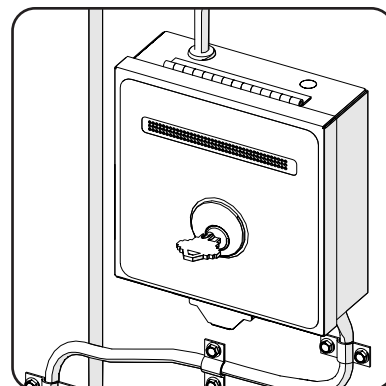
9. Test the alarm by opening the door when armed. Teach the customer how to use the alarm. Place these instructions inside the alarm box or give to the customer.

I. OPERATING INSTRUCTIONS - DISARMING THE ALARM

1. To disarm the alarm, insert the key and turn clockwise until it stops. The key must remain in this position while the alarm is disarmed.



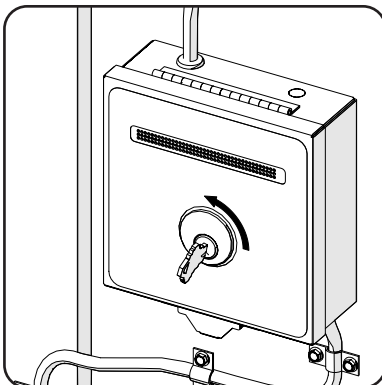
2. If the alarm sounds when disarming, the battery voltage may be critically low. Follow instructions for changing the batteries.



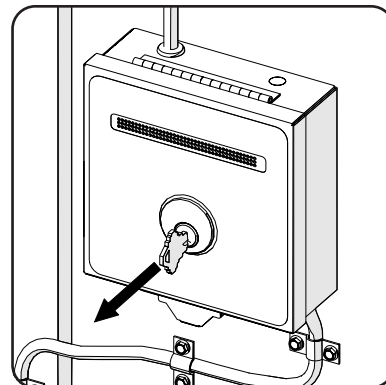
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J. OPERATING INSTRUCTIONS - ARMING THE ALARM

1. Turn the key counter-clockwise to the center. The alarm will sound twice (many mistake this for the alarm failing to arm, wait until it sounds twice).

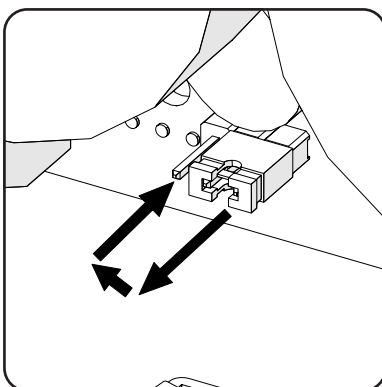


2. If the alarm continues to sound more than 2 times, insert the key and turn clockwise to disarm and see the troubleshooting section. If it stops then the alarm is armed and the key can be removed.

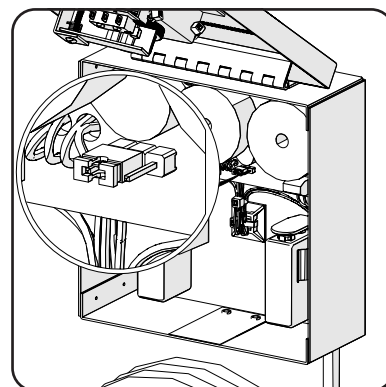
**K. OPERATING INSTRUCTIONS - LAST DOOR OUT (LDO) FUNCTION**

The Last Door Out (LDO) feature is available on all Trident alarms. This function delays the arming of the alarm 20 seconds to allow exiting without tripping the alarm.

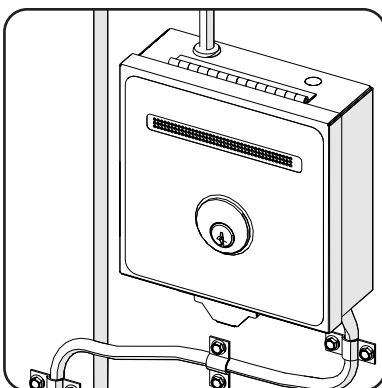
1. To turn on the LDO delay, turn off external power and disconnect batteries. Wait 30 seconds for power to dissipate and move the indicated jumper marked "DELAY" from the right and middle pins onto the left and middle pins. Reconnect external power and batteries. Be careful not to pull on battery terminal wires.



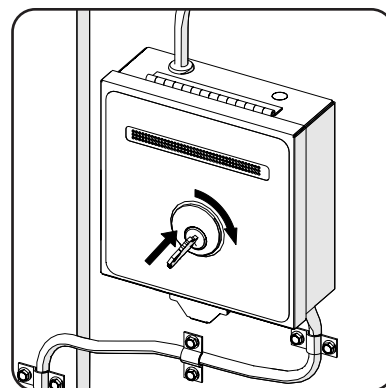
2. To use the alarm with the LDO delay active, arm as usual. Before the alarm sounds twice, it will chirp more quietly 18 times, once per second. Exit during this time and the alarm will not sound and will arm after the time has elapsed.

**L. OPERATING INSTRUCTIONS - CHANGING THE BATTERIES**

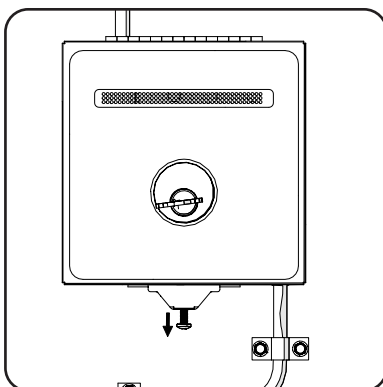
1. The alarm will chirp twice every 40 seconds when the battery voltage is low, and will continuously sound when the battery voltage is critically low. Two Alkaline 9 volt batteries are needed for battery backup (newly purchased Duracell batteries are recommended).



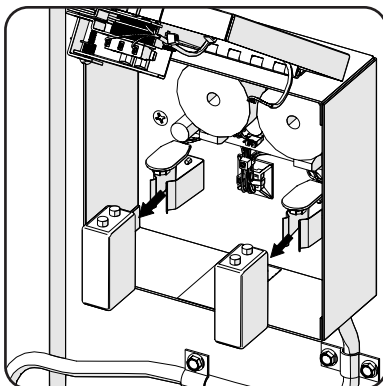
2. Insert the key and turn it clockwise until it stops to disarm (it may be impossible to disarm if the battery level is critically low).



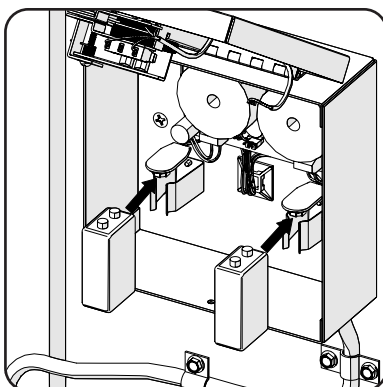
3. Using a Phillips-head screwdriver, unfasten the anti-tamper screw until it spins freely. Do not remove the screw completely.



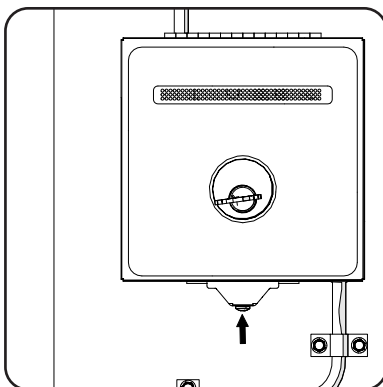
4. Open the lid and remove the two 9 volt batteries from the clips and battery terminals. Be careful to not pull the battery wires when disconnecting the batteries.



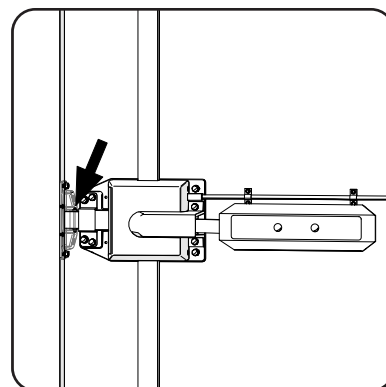
5. Replace with two Alkaline 9 volt batteries (newly purchased Duracell batteries are recommended). Attach the battery terminals and secure in the battery clips. Be careful to not pull the battery wires when connecting the batteries.



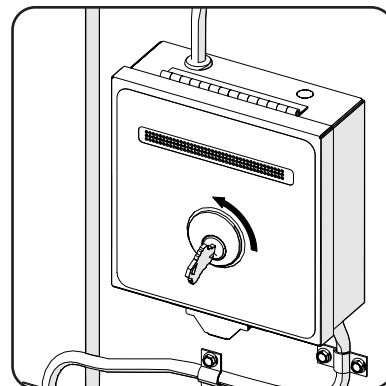
6. Close the lid and screw in the anti-tamper screw located at the bottom of the lid in completely. Do not overtighten. (The alarm will not arm unless this screw is completely inserted).



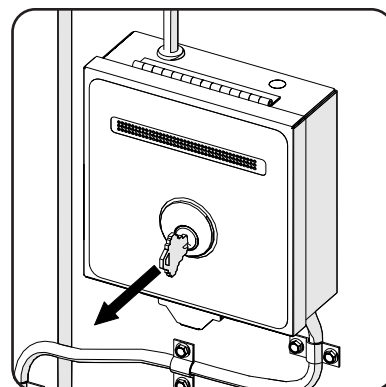
7. Make sure the deadbolts on the Trident lock are fully extended.



8. Turn the key counter-clockwise to the center. The alarm will sound twice (many mistake this for the alarm failing to arm, wait until it sounds twice).

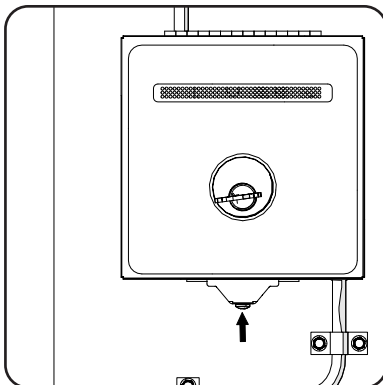


9. If the alarm continues to sound more than 2 times, insert the key and turn clockwise to disarm and see the troubleshooting section. If it stops then the alarm is armed and ready to use and the key can be removed.

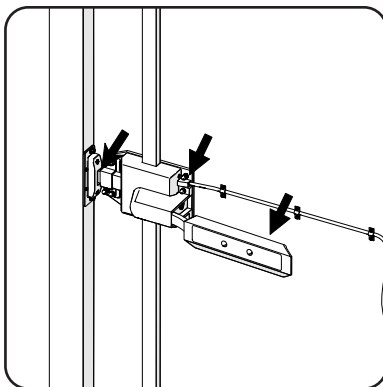


M. TROUBLESHOOTING - ALARM CANNOT BE ARMED.

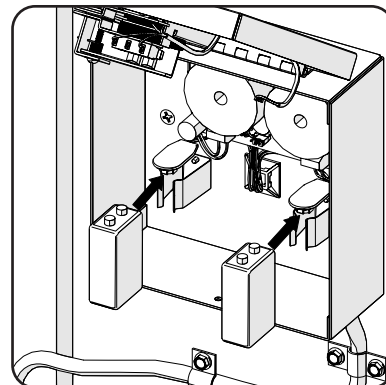
1. If the alarm cannot be armed, first check that the lid is closed and the anti-tamper screw is screwed in completely. It must depress a switch inside of the box to arm.



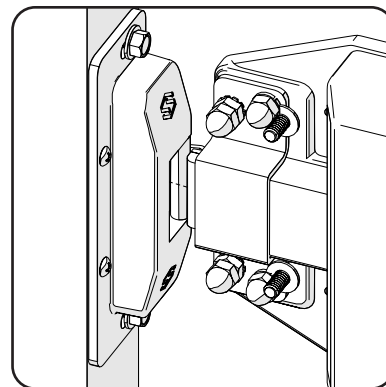
2. If the screw and lid are secure, check that the lock mechanism is not open. The door should be closed and all deadbolts extended. Check that the alarm cable is fully inserted.



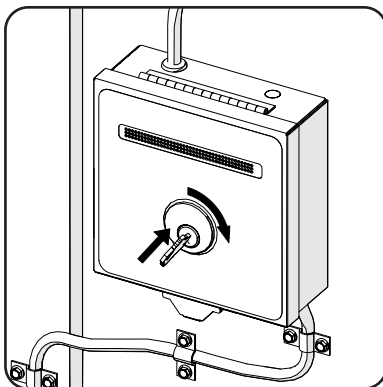
3. If the alarm cable is inserted and the lock is engaged, then the battery may have low voltage. See the "Changing the Batteries" section.



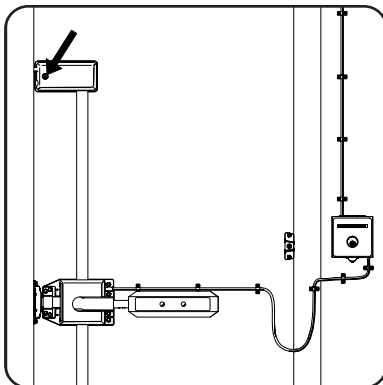
4. If the alarm continues to sound when arming, check to make sure the main deadbolt on the Trident lock is centered in the frame strike. The deadbolt should not rub or lean on the strike roller. Any pressure on the deadbolt will not allow it to extend fully.

**N. REMOVING THE ALARM CABLE**

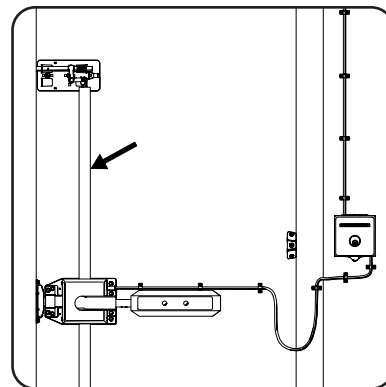
1. Disarm the alarm by inserting the key and turning it clockwise until it stops. The key must remain in this position while the alarm is disarmed.



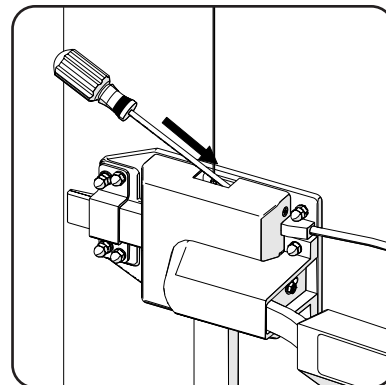
2. Remove the 5mm hex nut from the upper bolt cover on LHR installations or the lower bolt cover on RHR installations and remove the cover.



3. Remove the aluminum channel connecting the bolt cover that was just removed, sliding out of the hole in the main lock and bringing the cable through the slot in the back of the channel.

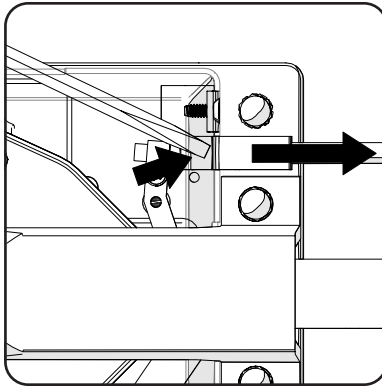


4. Insert a long, slotted head screwdriver into the hole now open where the channel was removed in the main lock and use it to depress the plastic clip as shown.

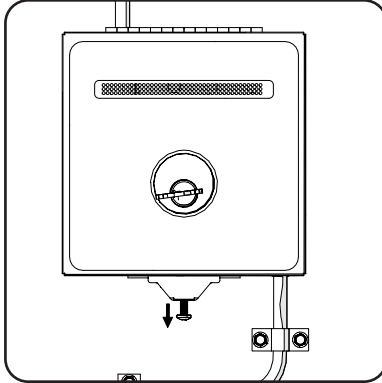


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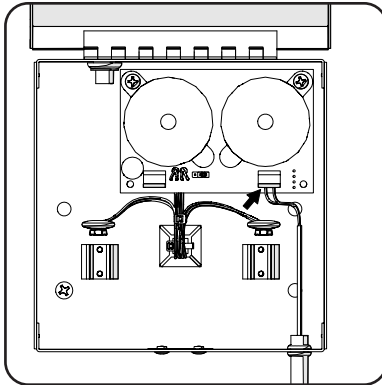
5. With the clip depressed, pull gently on the plastic housing to remove.



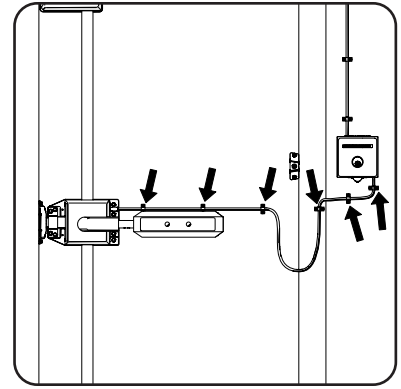
6. Using a Phillips-head screwdriver, unfasten the anti-tamper screw until it spins freely. Do not remove the screw completely.



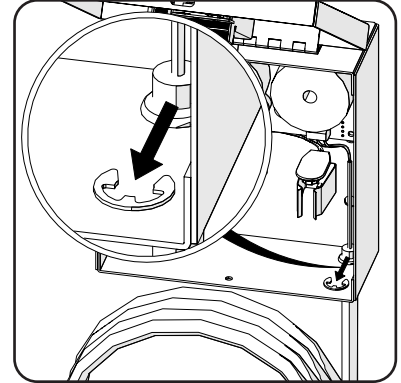
7. Loosen the small screws at the right terminal on the circuit board and disconnect the wires.



8. Remove cable clips holding the alarm cable to door.



9. Remove the e-clip from the armored cable.



10. Gently pull the armored cable and wires from the bottom of the box.

