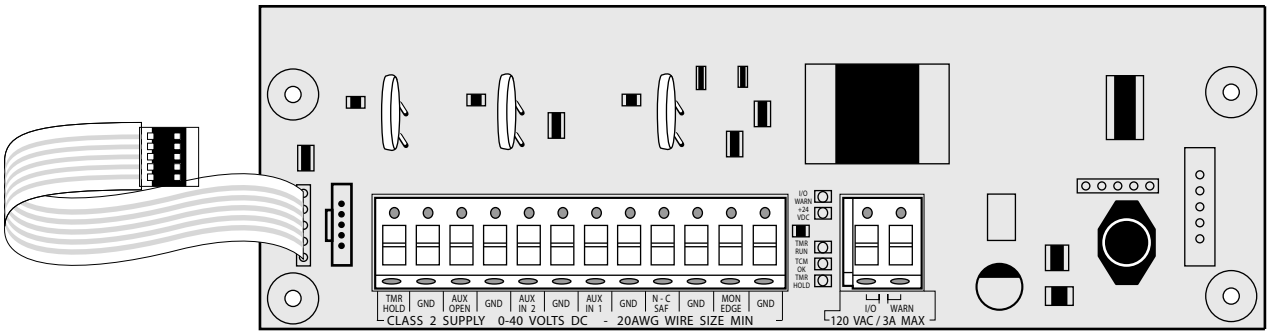
COMMERCIAL LINE

# TIMER CLOSE EXPANSION MODULE




This installation manual provides the information required to install, troubleshoot, and maintain the TIMER CLOSE MODULE (TCM) for commercial/industrial door operators.

## NOT FOR RESIDENTIAL USE

112069.503553 06/2017

# Table of Contents

## Section 1 : Safety Information

The TCM package includes one of the Warning Placards shown below.

Place the placard next to the wall control of the door that will be controlled by the TCM.
It must be in plain view and immediately adjacent to the door.

# Section 1 : Safety Information

## ⚠ WARNING

Overhead Doors are large, heavy objects that move with the help of springs under high tension and electric motors. Since moving objects, springs under tension, and electric motors can cause injury, your safety and the safety of others depend on you reading the information in this manual. If you have any questions or do not understand the information presented, call your nearest service representative. For the number of your local Genie Dealer, call 800-OK-GENIE and for **Genie Factory Technical Advice, call 800-843-4084.**

In this manual the words Danger, Warning, and Caution are used to stress important safety information. The word:

- ⚠ **DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
- ⚠ **WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- ⚠ **CAUTION** indicates potentially hazardous situation which, if not avoided, may result in injury or property damage.

The word **NOTE**, *is used to indicate important steps to be followed or important considerations.*

| POTENTIAL HAZARD | EFFECT | PREVENTION |
|---|---|---|
| MOVING DOOR  | ⚠ **WARNING** Could result in Serious Injury of Death | Do Not operate unless the doorway is in sight and free of obstructions. Keep people clear of opening while door is moving.<br>Do Not allow children to play with the door operator.<br>Do Not change operator control to momentary contact unless and external reversing means is installed.<br>Do Not operate a door that jambs or one that has a broken spring. |
| ELECTRICAL SHOCK  | ⚠ **WARNING** Could cause Serious Injury or Death | Turn off electrical poser before removing operator cover.<br>When replacing the cover, make sure wires are not pinched or near moving parts.<br>Operator must be electrically grounded. |
| HIGH SPRING TENSION  | ⚠ **WARNING** Could cause Serious Injury or Death | Do Not try to remove, repair or adjust springs or anything to which door spring parts are fastened, such as wood block, steel bracket, cable or any other structure or like item.<br>Repairs and adjustments must be made by trained service representative using proper tools and instructions. |

## IMPORTANT

**READ PRIOR TO ANY DOOR OPERATION**

1. Read manual and warnings carefully.
2. Keep the door in good working condition. Periodically lubricate all moving parts of door.
3. If door has a sensing edge, check operations monthly. Make any necessary repairs to keep it functional.
4. AT LEAST twice a year, manually operate the door by disconnecting it from the operator. The Door should open and close freely. If it does not, the door must be taken out of service and a trained service representative must correct the condition causing the malfunction.
5. The Operator Motor is protected against overheating by an internal thermal protector. If the motor protector is tripped, a trained service technical may be needed to correct the condition which caused the overheating. When the motor has cooled, thermal protector will automatically reset and normal operation can be resumed.
6. In case of power failure, the door can be operated manually by pulling the release cable to disconnect the operator drive system.
7. Keep instructions in a prominent location near the pushbutton.

# ⚠ AVERTISSEMENT

Les portes basculantes sont de gros objets lourds qui fonctionnent à l'aide de ressorts soumis à une haute tension et de moteurs électriques. Dans la mesure où les objets en mouvement, les ressorts sous tension et les moteurs électriques peuvent entraîner des blessures, votre sécurité et celle des autres exigent que vous preniez connaissance des informations stipulées dans ce manuel. Si vous avez des questions ou si vous ne comprenez pas les informations ci-incluses, veuillez contacter le représentant de service le plus près. Pour obtenir le numéro du revendeur Genie local, appelez le +1 (800) OK-GENIE, et pour **obtenir des conseils techniques de l'usine Genie, appelez le +1 (800) -843-4084.**

Dans ce manuel, les mots Danger, Avertissement, et Attention sont utilisés pour faire ressortir d'importantes informations relatives à la sécurité. Le mot :

- ⚠ **DANGER** signale une situation dangereuse imminente qui si elle n'est pas évitée, risque d'entraîner des blessures graves, voire mortelles.
- ⚠ **AVERTISSEMENT** signale une situation potentiellement dangereuse qui, si elle n'est pas évitée, risque d'entraîner la mort ou des blessures graves.
- ⚠ **ATTENTION** signale une situation potentiellement dangereuse qui, si elle n'est pas évitée, risque d'entraîner des blessures ou des dommages matériels.

Le terme **REMARQUE** est utilisé pour signaler les étapes importantes à suivre ou d'importants éléments à prendre en considération.

| DANGER POTENTIEL | EFFET | PRÉVENTION |
|---|---|---|
| **PORTE EN MOUVEMENT**  | ⚠ **AVERTISSEMENT** Pourrait entraîner des blessures graves voire la mort | Utiliser uniquement si la porte est en vue et libre de tout obstacle. Ne laisser personne se tenir dans l'ouverture de la porte pendant qu'elle est en mouvement.<br>Ne pas permettre aux enfants de jouer avec l'opérateur de la porte.<br>Ne pas modifier la commande de l'opérateur à contact momentané à moins qu'un moyen d'inversion externe soit installé.<br>Ne pas faire fonctionner une porte qui bloque ou dont le ressort est cassé. |
| **CHOC ÉLECTRIQUE**  | ⚠ **AVERTISSEMENT** Pourrait entraîner des blessures graves voire la mort | Couper le courant avant d'enlever le couvercle de l'opérateur. Lorsque le couvercle doit être remplacé, s'assurer que les fils ne sont ni coincés ni près des pièces mobiles.<br>L'opérateur doit être correctement mis à la terre. |
| **TENSION ÉLEVÉE RESSORT**  | ⚠ **AVERTISSEMENT** Pourrait entraîner des blessures graves voire la mort | Ne pas essayer d'enlever, réparer ni ajuster les ressorts ou toute autre pièce à laquelle le ressort de la porte est attaché, y compris blocs de bois, supports en acier, câbles ou autres articles semblables.<br>Les réparations et les réglages doivent être effectués par technicien qualifié qui se sert d'outils appropriés et qui respecte les instructions. |

# Section 2 : General Information

**Timer Close Module Entrapment Protection Requirements:**
This module provides the operator with an automatic door closing feature with a user selectable time delay, auxiliary control inputs and auxiliary reversing inputs.

At power up, the system checks all inputs to verify they are in the proper state. i.e. Normally open or normally closed, if the system determines that an input is not in the correct state, the input will be ignored until it changes to the correct state. Refer to page 14.

The Timer Close Module allows the connection of any combination of the following Reversing Devices:

- A 2-wire "DC" Monitored Edge.
- A 2-wire Monitored Photocell (ODC Series II STB) on the operator control board.
- A Normally-Closed Reversing Device.

**NOTE:** The Monitored Edge Sensor input can detect open or shorted wiring to the Edge Sensor using a 2-wire connection. No relay kit is required to provide this feature.

**⚠ WARNING**
DO NOT use with resister style 2-wire monitored edges

**⚠ AVERTISSEMENT**
NE PAS utiliser avec des arêtes surveillées à 2 fils de type à résistance

**NOTE:** *Any MillerEdge® T3 Sensor Series desired may be used as long as the 2-wire output is specified along with the suffix "DC."*
*For example: Model number MT21-2R-16DC signifies an MT21 Series sensor with a 2-wire output from the Right, that is 16 feet long and has the monitoring option required by the Timer Close Module . Contact MillerEdge® at 1.800.220.EDGE For more specific information pertaining to sensing edges.*

**NOTE:** *Use of ASO Sentir GF Series T3 Edges is approved for use with Genie Commercial operators with this TCM expansion module or ESM expansion module.*

**TIMER:**
The timed closing feature is programmed with the operator keypad to start the timer when the door is operated from any combination of the following inputs:

- Open button on the 3-Button Wall Console.
- Radio Control Input.
- Auxiliary Open Input (provided on the Timer Close Module).

The time delay is adjusted using the calibration display on the keypad. This delay can be adjusted from 1 second to 5 minutes, plus 2 to 10 seconds for the Impending
Operation Warning Delay. (A set of dry relay contacts are provided that signal the impending closing of the door prior to the beginning of the close cycle. It is used in combination with a signaling device, such as a light, horn, etc.) The module also provides terminals for an input that suspends and resets the timer when activated.
The Timer Close Module includes LED's that indicate when power is applied, the normal functioning of the module, when the Impending Operation Warning is active, when the timer is timing, and when the timer is being held.

**NOTE:** Successive activations of an input that is programmed to start the timer or an active reversing input will reset the timer and hold the timer until the input is deactivated.

Pressing the STOP wall button or STOP keypad key while the Timer Close Module is timing down will cancel the Timer Close operation.
Additional activations of inputs selected to start the timer will start a new timing cycle. If a safety device reverses the door 3 consecutive times, without the operator reaching the down limit, the timer will turn off. (See 3 strikes feature in set-up procedure).

**NOTE:** The Normally-Open Reversing Input on the operator control board may be used in combination with any of the required Timer Close reversing devices.

**Job Site Issues to Consider/Concerns:**
The following list of items should be considered prior to installing the Timer Close Module at any job site.

- Door activation requirements for Timer Close Module. Examples of devices to initiate the Timer are: 3 button control stations (open button), radio controls, pull cords, loop detectors, photoelectric controls, key switches, etc.
- Accessory equipment requirements. Examples include: horns, lights sirens, etc.

**⚠ WARNING**
The installation of an Impending Operation Warning Device is strongly recommended on every door equipped with a timer controlled automatic closing feature. These signaling devices may include, but are not limited to: lights, annunciators, voice modules, etc.

**⚠ AVERTISSEMENT**
Il est fortement recommandé d'installer un appareil avertissant un fonctionnement imminent à chaque porte équipée d'un dispositif de fermeture automatique contrôlée par une minuterie.
Ces dispositifs de signalisation peuvent inclure, sans toutefois s'y limiter: lumières, voyants, modules vocaux, etc.

# Section 3: Installation Information, All Operators

## ⚠ WARNING:
DO NOT use with resister style 2-wire monitored edges

## ⚠ AVERTISSEMENT
NE PAS utiliser avec des arêtes surveillées à 2 fils de type à résistance

## ⚠ WARNING
RISK OF ELECTRICAL SHOCK. Be sure that electrical power to the operator has been disconnected. There should be no live circuits inside the electrical box while installing this Timer Close Module. An appropriate lock-out/tag-out procedure is recommended. DO NOT APPLY POWER UNTIL INSTRUCTED TO DO SO.

## ⚠ AVERTISSEMENT
RISQUES DE CHOCS ÉLECTRIQUES Assurez-vous que l'alimentation électrique à l'opérateur a été coupée. Il ne doit pas y avoir de circuits sous tension à l'intérieur du coffret électrique lors de l'installation de ce module de fermeture à minuterie. Une procédure de verrouillage/étiquetage appropriée est recommandée.
NE PAS METTRE SOUS TENSION TANT QUE L'INSTRUCTION N'EST PAS DONNÉE.

## ⚠ WARNING
All wiring to the operator must meet all local building codes. The Genie Company recommends that all work involving electrical circuits and line voltage wiring be performed by a qualified electrician.

## ⚠ AVERTISSEMENT
Le câblage vers l'opérateur doit satisfaite aux codes de construction locaux. Genie Company recommande que les travaux concernant les circuits électriques concernés et le câblage au secteur soient effectués par un électricien qualifié.

## ⚠ CAUTION
Check working condition of door and operator before installing the Timer Control Module.

## ⚠ ATTENTION
Vérifier l'état de marche de la porte et de l'opérateur avant d'installer le module de sortie auxiliaire.

# Section 3: Installation MX Operators

1. Turn off supply power to the operator.
   - Locate supply power disconnect.
   - Disconnect supply power.
   - Use proper lock-out/tag-out procedure.
2. Open and/or Remove Operator Electric Box Cover.
   - Loosen screw on front of cover, door swings open. (Door is removed by sliding it out of the hinges).
3. Install Timer Close Module. (Fig. 3A)
   - Secure with 1/4" hex head screws (2 ea.) provided.
   - Connect ribbon cable to main control board as shown.

**NOTE:** If another expansion module is already installed and connected in the electric box, the Timer Close Module ribbon cable should be connected to the expansion port connector on the existing expansion module.

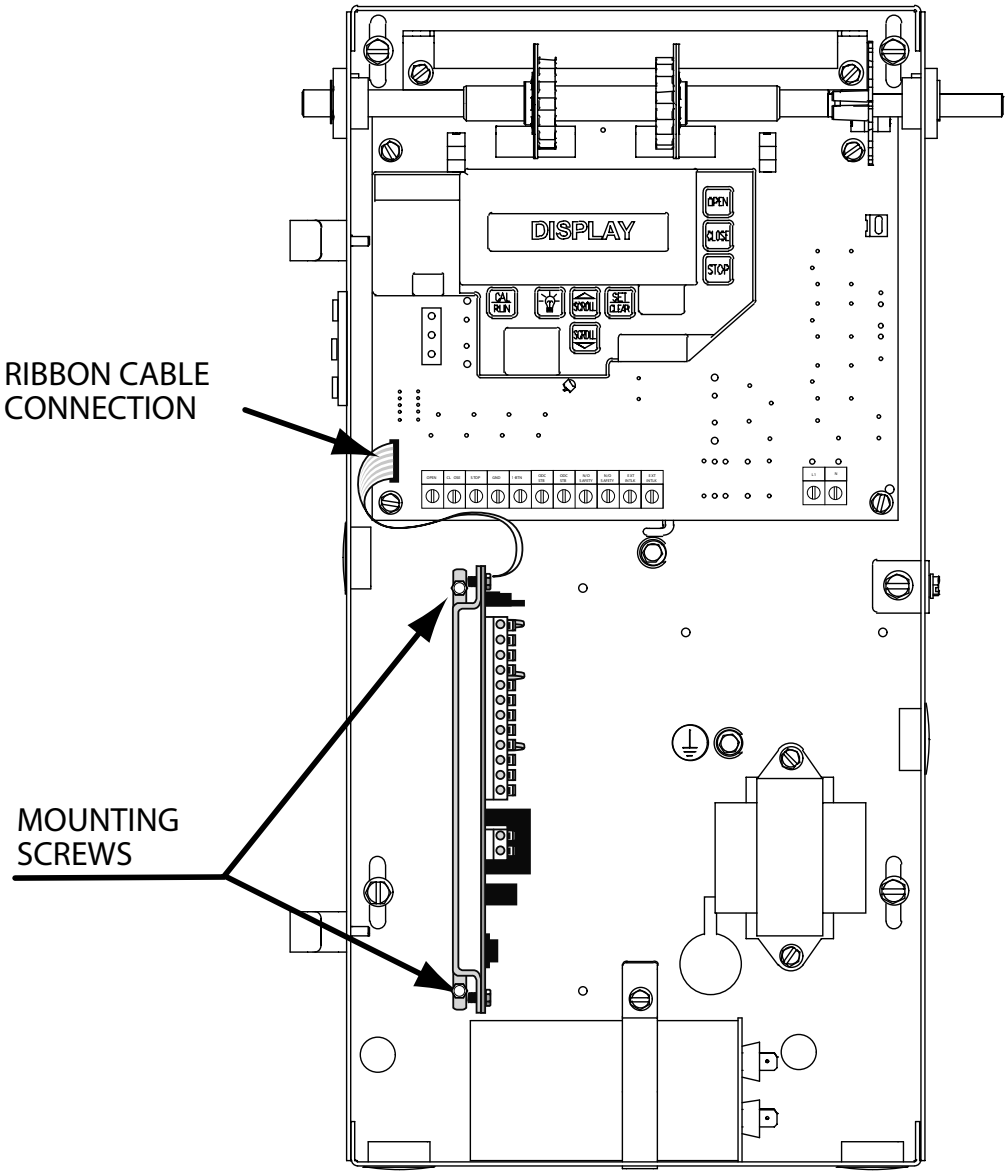



Fig.3A Install TCM in MX Unit

# Section 3: Installation SX-HX Operators

1. Turn off supply power to the operator.
   - Locate supply power disconnect.
   - Disconnect supply power.
   - Use proper lock-out/tag-out procedure.
2. Open and/or Remove Operator Electric Box Cover.
   - Loosen screw on front of cover, door swings open. (Door is removed by sliding it out of the hinges).
3. Install Timer Close Module. (Fig. 3B)
   - Secure with 1/4" hex head screws (2 ea.) provided.
   - Connect ribbon cable to main control board as shown.

**NOTE:** If another expansion module is already installed and connected in the electric box, the Timer Close Module ribbon cable should be connected to the expansion port connector on the existing expansion module.

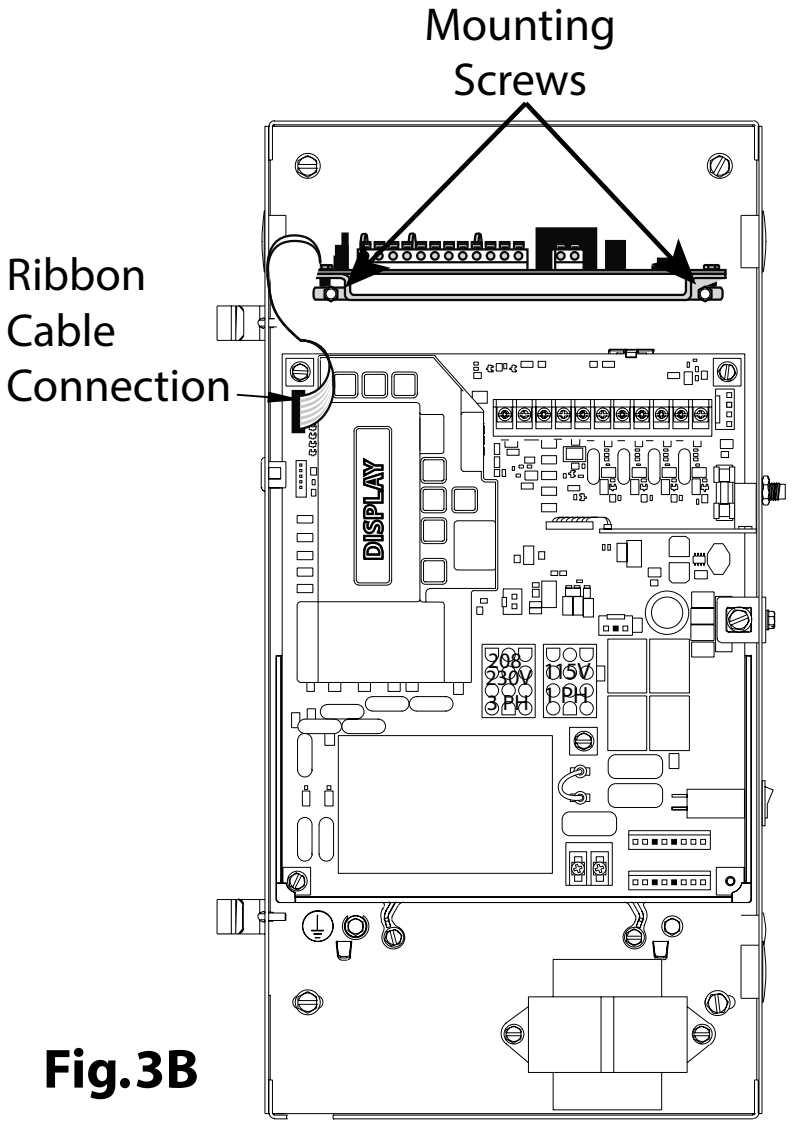



**Fig.3B**

**Install TCM in SX-HX Units**

# Section 3: Installation CX Operators

1. Remove four (4) self-tapping screws from front panel of CX® enclosure and remove front panel to expose control circuits.
2. Orient the module so mounting bracket tabs are to the left and wire terminals are facing up.
3. Make desired wiring connections (see section 4)
4. Insert module into the area indicated and slide front mounting tab into slot on side panel of CX® enclosure. Fig. 3C & D
5. Adjust module so that it is level with CX® enclosure.
   - There is a mounting hole on side panel of enclosure which will line up with hole in module mounting bracket.
   - Attach module by inserting self-tapping screw (provided in kit) through module bracket and into hole in side panel. Do not overtighten.
   - Connect ribbon cable to main control board as shown.
6. Replace front panel.

**Fig. 3C**

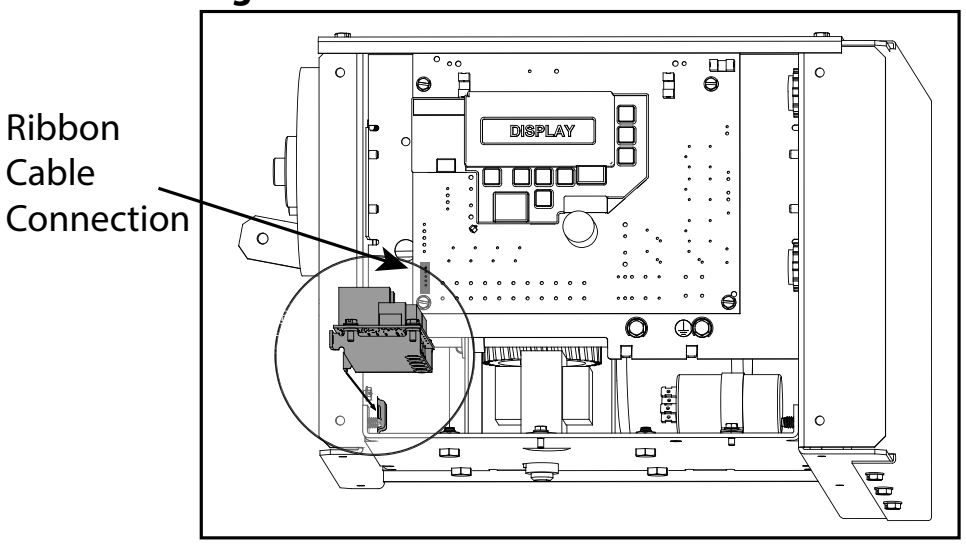
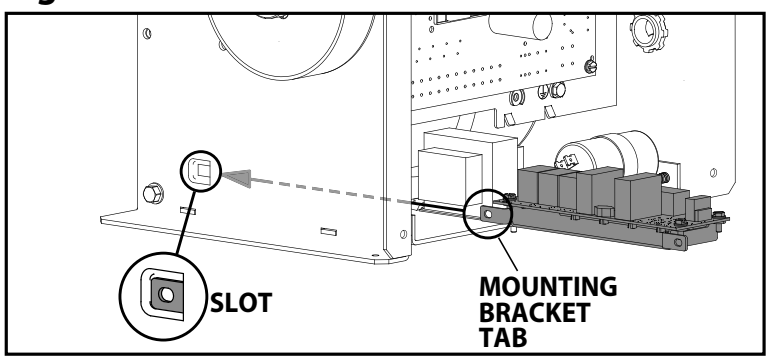



**Fig. 3D**




Install TCM in CDX Units.

# Section 4: Wiring Information, All Operators

## ⚠ WARNING

RISK OF ELECTRICAL SHOCK. Be sure that electrical power to the operator has been disconnected. There should be no live circuits inside the electrical box while installing this Timer Close Module. An appropriate lock-out/tag-out procedure is recommended.
DO NOT APPLY POWER UNTIL INSTRUCTED TO DO SO.

## ⚠ AVERTISSEMENT

RISQUES DE CHOCS ÉLECTRIQUES Assurez-vous que l'alimentation électrique à l'opérateur a été coupée. Il ne doit pas y avoir de circuits sous tension à l'intérieur du coffret électrique lors de l'installation de ce module de fermeture à minuterie. Une procédure de verrouillage/étiquetage appropriée est recommandée.
NE PAS METTRE SOUS TENSION TANT QUE L'INSTRUCTION N'EST PAS DONNÉE.

## ⚠ WARNING

LOWVOLTAGE/CONTROL WIRING MUST BE KEPT SEPARATE FROM LINE VOLTAGE WIRING!

## ⚠ AVERTISSEMENT

LE CÂBLAGE DE COMMANDE/BASSE TENSION SOIT ÊTRE DISTINCT DU CÂBLAGE DE TENSION DE LA LIGNE !

# Section 4: Wiring MX Operators

**To Connect Wires to Accessory Modules**

1. Strip wire insulation .42" as shown. (Fig. 4A).
2. Using a screwdriver or your finger, press the plunger down and hold it.
3. Insert 20AWG - 12 AWG solid or stranded wire into the connector. (Fig. 4B).

**NOTE:** Connect only one wire per terminal.

4. Release the plunger.
5. Tug on the wire to make sure it is secured.

**Control Wires**

1. Route control wiring as per Fig. 4C.
2. Access ports have been provided so that wires can be routed into and secured to the control board. Use appropriate conduit and/or fittings to provide proper strain relief and wiring protection.
3. Make control,warning and reversing device connections using the information above and on page 14.

**NOTE:** If wiring connected to the I/O Warning Output applies low voltage class 2 voltages/currents, route the wiring with control wiring shown in left side of Fig 4C.
If wiring connected to this output applies line voltage, route the wiring as shown in right side of Fig 4C.

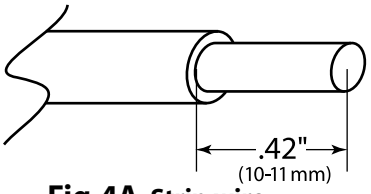



**Fig.4A** **Strip wire**

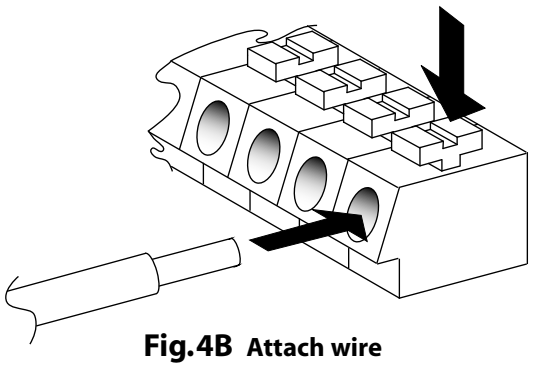


**Fig.4B** **Attach wire**

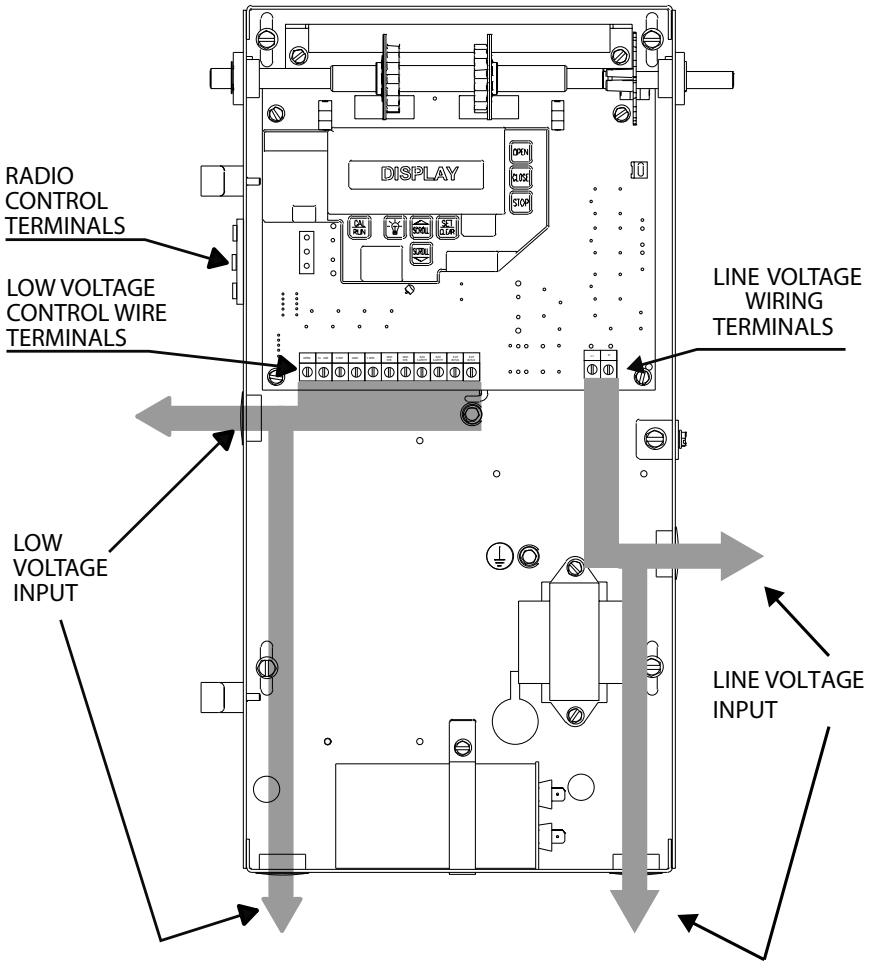



**Fig.4C** **Wiring to TCM**

# Section 4: Wiring SX-HX Operators

**To Connect Wires to Accessory Modules**

1. Strip wire insulation .42" as shown. (Fig. 4A).
2. Using a screwdriver or your finger, press the plunger down and hold it.
3. Insert 20AWG - 12 AWG solid or stranded wire into the connector. (Fig. 4B).

**NOTE:** Connect only one wire per terminal.

4. Release the plunger.
5. Tug on the wire to make sure it is secured.

**Control Wires**

1. Route control wiring as per Fig. 4C.
2. Access ports have been provided so that wires can be routed into and secured to the control board. Use appropriate conduit and/or fittings to provide proper strain relief and wiring protection.
3. Make control,warning and reversing device connections using the information above and on page 14.

**NOTE:** If wiring connected to the I/O Warning Output applies low voltage class 2 voltages/currents, route the wiring with control wiring shown in top side of Fig 4C.
If wiring connected to this output applies line voltage, route the wiring as shown in bottom side of Fig 4C.

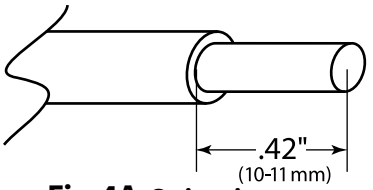



**Fig.4A Strip wire**

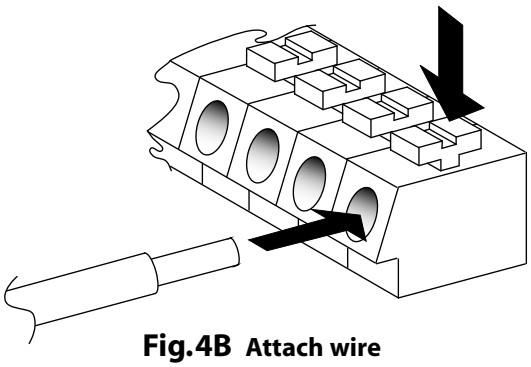


**Fig.4B Attach wire**

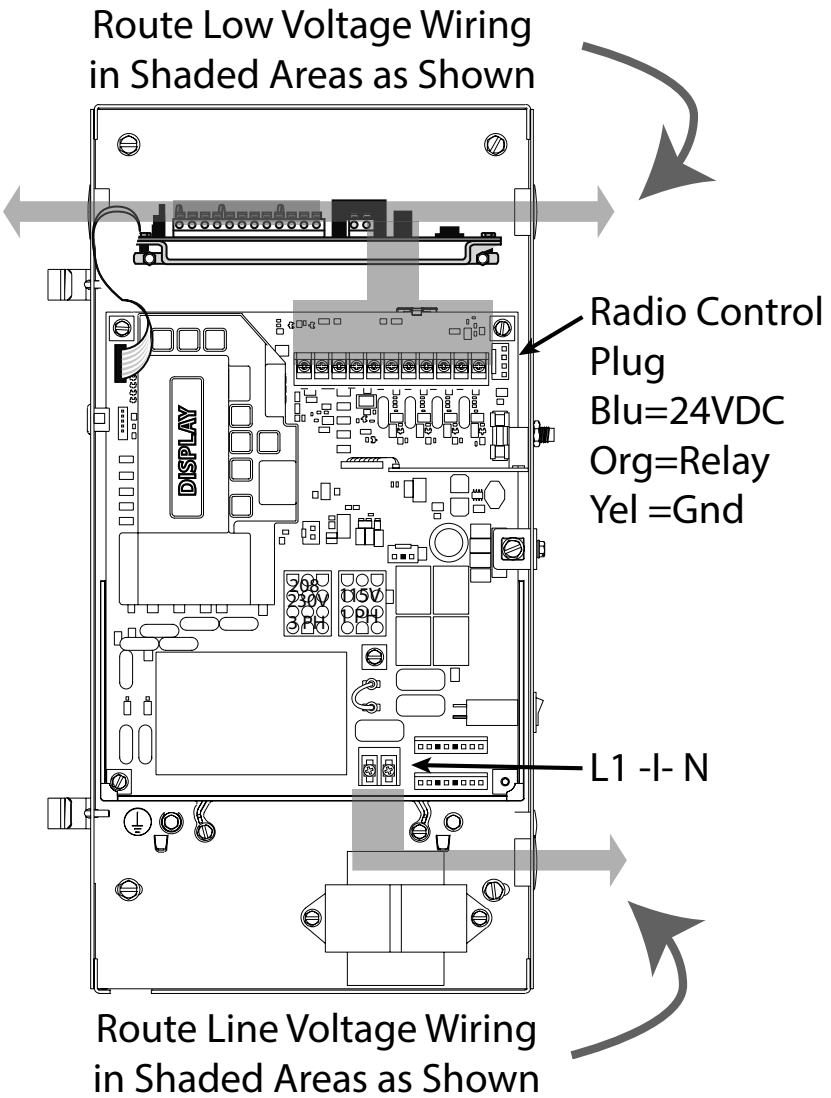



**Fig.4C Wiring to TCM**

# Section 4: Wiring CX Operators

**To Connect Wires to Accessory Modules**

1. Strip wire insulation .42" as shown. (Fig. 4A).
2. Using a screwdriver or your finger, press the plunger down and hold it.
3. Insert 20AWG - 12 AWG solid or stranded wire into the connector. (Fig. 4B).

**NOTE:** Connect only one wire per terminal.

4. Release the plunger.
5. Tug on the wire to make sure it is secured.

**Control Wires**

1. Route control wiring as per Fig. 4C.
2. Access ports have been provided so that wires can be routed into and secured to the control board. Use appropriate conduit and/or fittings to provide proper strain relief and wiring protection.
3. Make control,warning and reversing device connections using the information above and on page 14.

**NOTE:** If wiring connected to the I/O Warning Output applies low voltage class 2 voltages/currents, route the wiring with control wiring shown in upper side of Fig 4C. If wiring connected to this output applies line voltage, route the wiring as shown in lower side of Fig 4C.

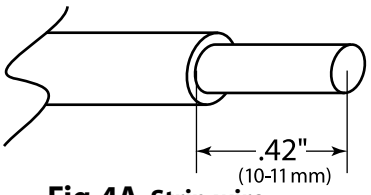



**Fig. 4A** **Strip wire**

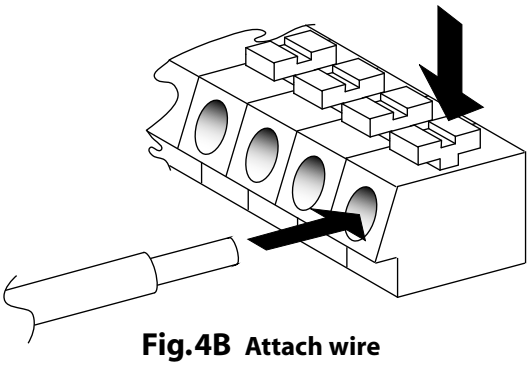
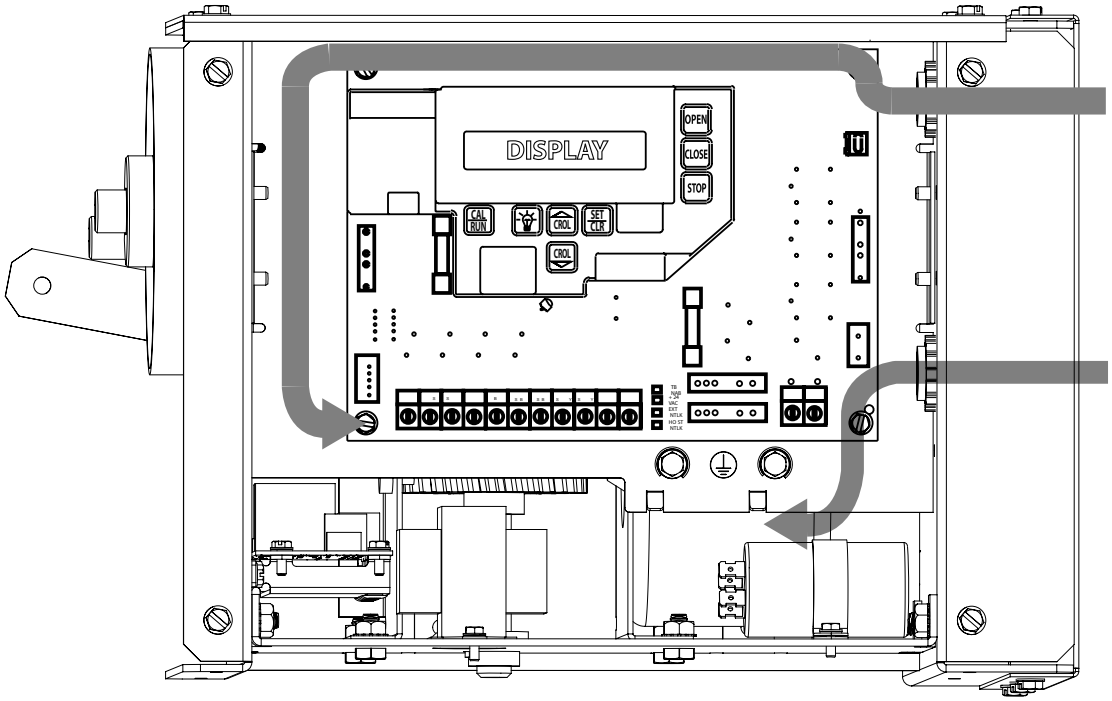


**Fig. 4B** **Attach wire**



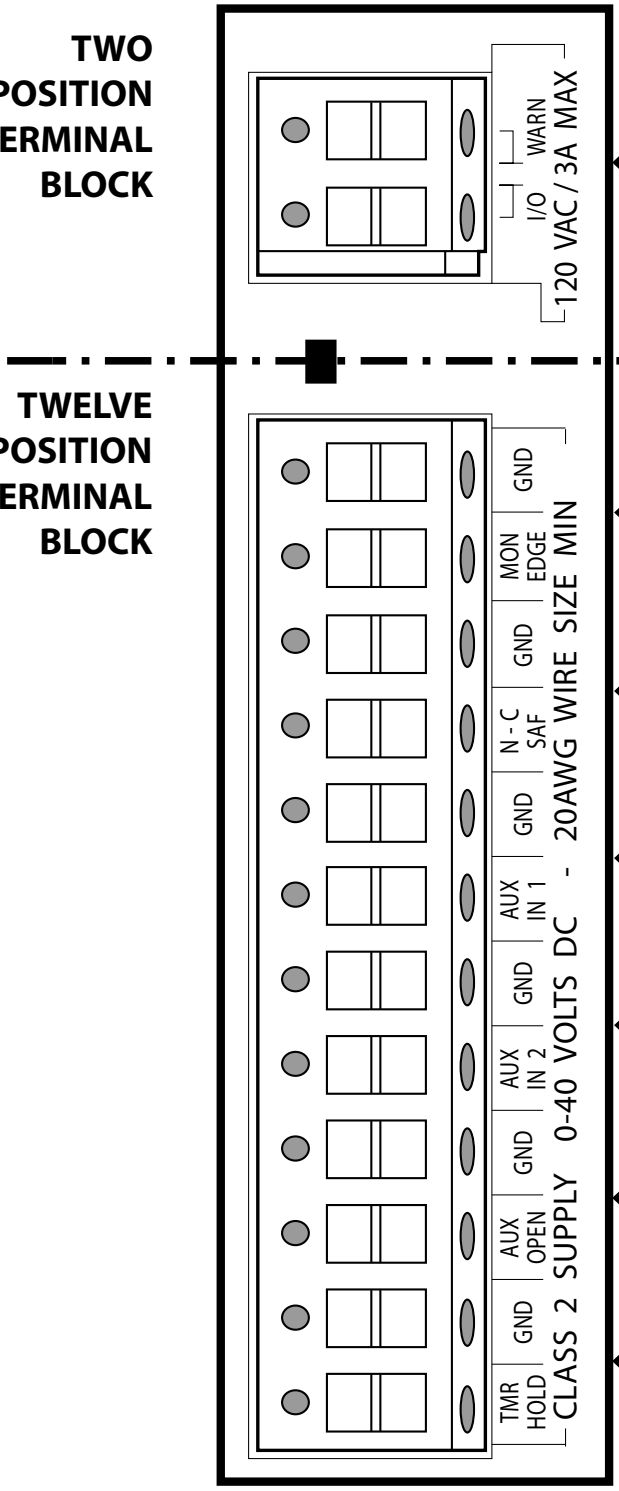

Route Low Voltage Wiring Here

Route Line Voltage Wiring Here

# Section 4 : Wiring - Terminal Designations

**NOTE:** Maximum wire size = 12AWG
Minimum wire size = 20AWG

**NOTE:** *The reversing inputs are enabled or disabled using the operator keypad display.*




**Impending Operation Warning (I/O WARN)** - Activates 2 to 10 seconds (adjustable) before the close cycles. One set of SPST contacts rated at 3A, 120VAC (Max.)

**Monitored Edge Sensor Input** - When this input is enabled using the operator keypad display, an active input will reverse a closing door, prevent an open door from closing, or cause the timer to reset and hold if a timing cycle is in progress. This is a 2-wire monitored edge sensor input when used with a compatible edge sensor.
**NOTE:** *Any MillerEdge® sensor series can be used as long as the 2-wire output is specified along with the suffix "DC".* ***Example: ME123-DC.*** *This input will detect broken or short circuit wiring to the edge sensor and will interpret these as an active input. The edge sensor leads are not polarized, so either lead can connect to either terminal.*
**NOTE:** *DO NOT use with resistor style 2-wire monitored edges.*

**Normally Closed Reverse Input** - When this input is enabled using the operator keypad display, disconnecting the input from ground (GND) will reverse a closing door, prevent an open door from closing, or cause the timer to reset and hold if timing cycle is in progress. This is a Normally Closed switch to ground (GND).

**Auxiliary Input 1** - Loop input. Activating this input causes a stopped or closed door to open, prevents an open door from closing and reverses a closing door. It can be programmed to activate the timer close feature. Activating the input causes the timer to reset and hold if a timing cycle is in progress. The timer will restart when this input is de-activated. This is a Normally Open switch contact to ground (GND).
**NOTE:** *The status of this input is not checked at power up.*

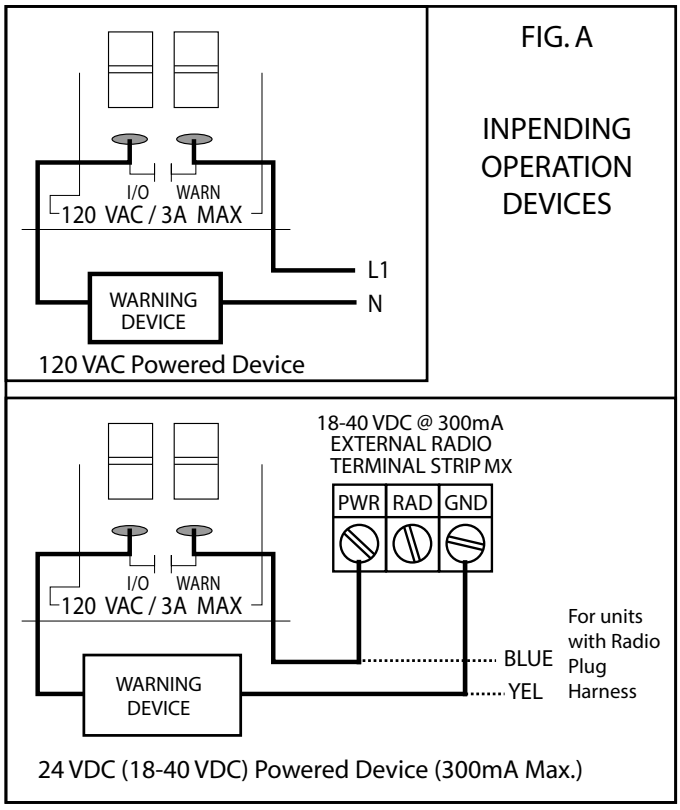
**Auxiliary Input 2** - This is a spare input that is not currently used.

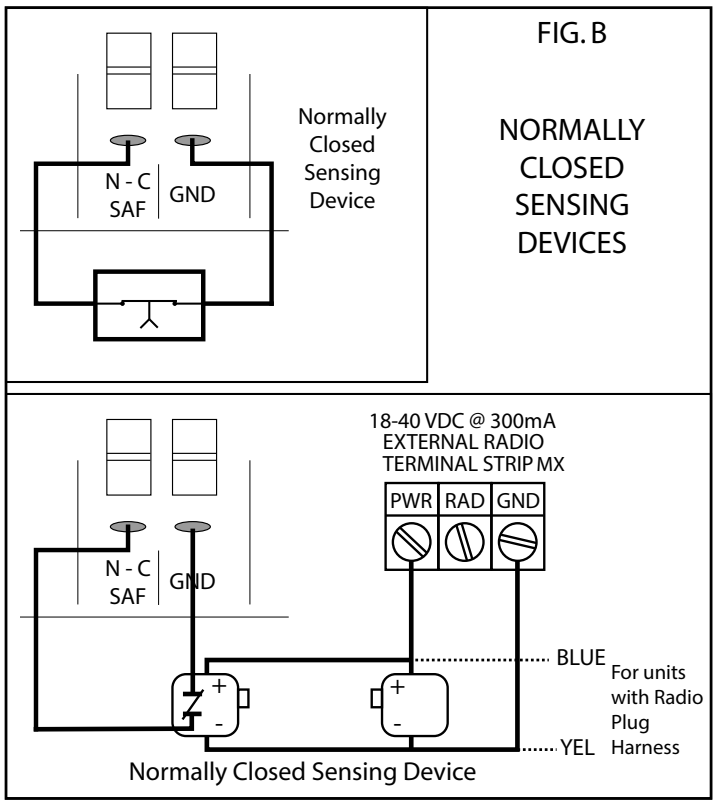
**Auxiliary Open Input** - Activating this input causes a stopped or closed door to open, prevents an open door from closing and reverses a closing door. It can be programmed to activate the timer close feature. Activating the input causes the timer to reset and hold if a timing cycle is in progress. The timer will restart when this input is de-activated. This is a Normally Open switch contact to ground (GND).

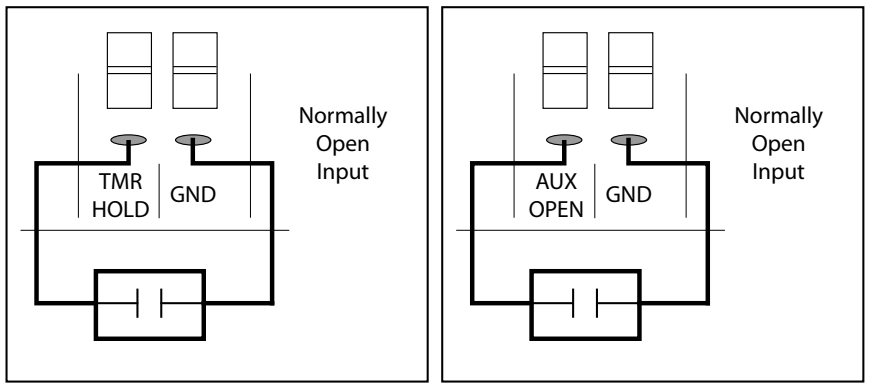
**Timer Hold Input** - An active input causes the timer to reset and hold. The timer will restart when this input is de-activated. This is a Normally Open switch contact to ground (GND).
**NOTE:** *This input will not open a door or reverse a closing door.*

**Fig.4E Terminal Arrangement**

# Section 4 : Examples

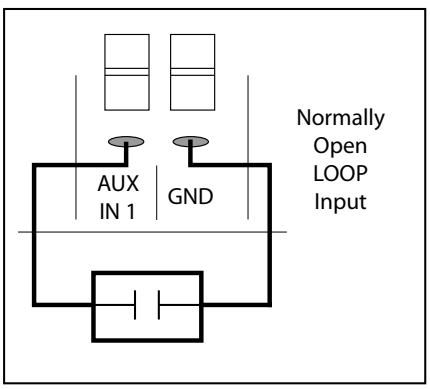








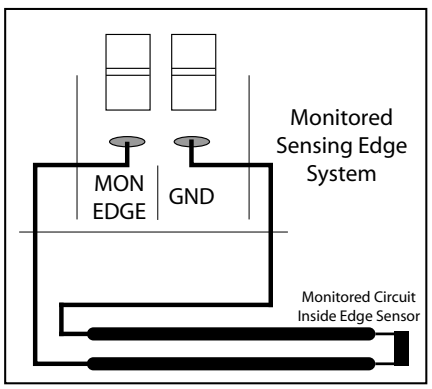




Fig. F *Monitored Edge Sensor*
Edge sensor leads are not polarized. Either lead can connect to either terminal

Note that the use of a Montitored Edge Interface Module is not used in this method.

# Section 5 : Setup Procedure

## ⚠ WARNING

RISK OF ELECTRICAL SHOCK. After power is applied to the Operator, DO NOT make contact with components inside the Control Panel, except for the Keypad Display Buttons.

## ⚠ AVERTISSEMENT

RISQUES DE CHOCS ÉLECTRIQUES Après avoir mis l'opérateur sous tension, NE PAS entrer en contact avec des composants à l'intérieur du panneau de commande, sauf pour les touches du pavé numérique.

**Timer to Close Options:**

1. Turn on power to door operator.
   - If Timer Close Module is properly installed, the +24V" and "TCM O.K." will turn on.

   (Fig. 5A) (See also page 18 —Troubleshooting Section.)

**NOTE:** One or more of the following Reversing devices must be installed to use the Timer Close feature:
- Monitored photocell (ODC Series II STB) (on control board).
- Monitored Edge Sensor

2. Using the operator keypad and display, press the CAL/RUN key to enter the CAL Mode.
3. Press the SCROLL DN key to select the installed reversing device(s), ODC STB > ON OFF,MON EDGE > ON/OFF, or N-C SAFETY > ON/OFF.
4. Press the SET/CLEAR key to turn the selected reversing device on or off.
5. Press the SCROLL DN key to select the inputs that will initiate a Timer Close operation. (Fig. 5B). *TIMER CLOSE W/OPEN BUTTON, TIMER CLOSE W/RADIO or TIMER CLOSE W/AUX OPEN.)*
6. Press the SET/CLEAR key to turn each timer-initiate input on or off.

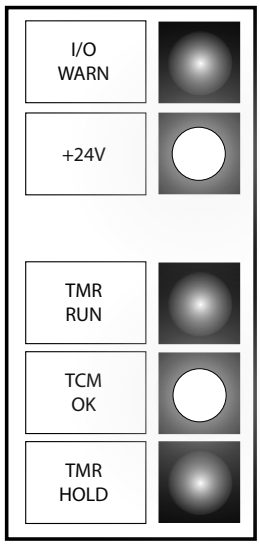



**Fig. 5A Timer Close Module LED's**

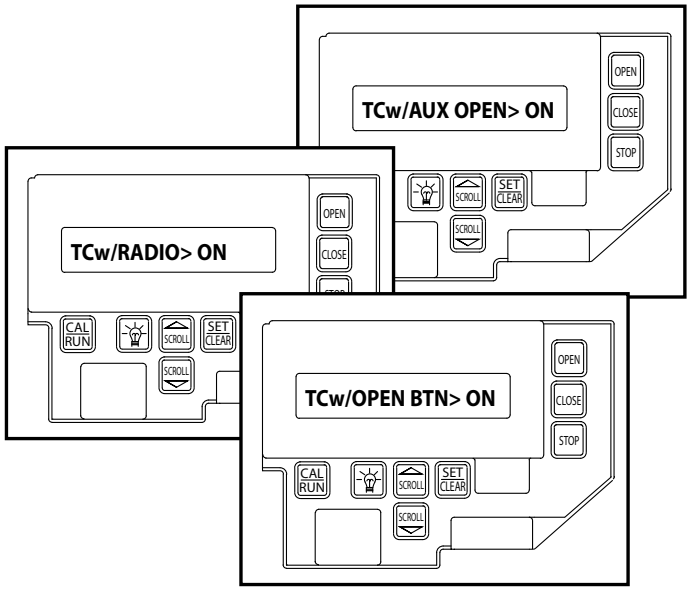



**Fig. 5B Select Mode**

**Setting the Timer Delay:**

1. Press the SCROLL DN key until display reads "TIMER DELAY> 0:01 ". (Fig. 5C).
2. Press SET/CLEAR key to select the first time digit (minutes).The cursor will blink in the minutes column.
   - Press SET/CLEAR key to increase the delay 1 minute at a time until you reach the desired delay.
   - Press the SCROLL DN key to shift to the next digit(10 seconds).The curser will blink in the10 seconds column.
   - Press SET/CLEAR key to increase the delay 10 seconds at a time.
   - Press SCROLL DN key again to shift to final digit (seconds).The cursor will blink in the seconds column.
   - Press SET/CLEAR key to increase delay 1 second at a time.
   - Press SCROLL DN key again to lock the delay set.

**NOTE:** When setting the time delay you can move left and right through the Time Delay digit columns by using the SCROLL UP or SCROLL DN keys as necessary.

3. Press SCROLL DN key again to shift to "I/O WARN DELAY > 02." (Fig. 5D).
   - Press SET/CLEAR key to adjust the delay between 2 and 10 seconds.
   - Press the SCROLL DN key to lock the setting.

**Setting the Three Strikes Option:**

1. Press the SCROLL DN key to shift to "TC>3 STRIKES> ON-OFF". Fig. 5E
2. Pressing the SET/CLEAR key will toggle this feature on and off.

**NOTE:** The 3 strikes feature ON will lock the timer out if the operator receives 3 safety inputs in a row while door is closing from the timer and before it reaches the down limit.
An open command from a programmed initiation device will reset the TCM.

3. Press the CAL/RUN key to exit Cal Mode.

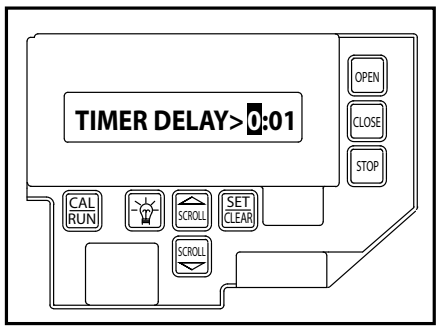



**Fig. 5C** **Set Timer Delay**

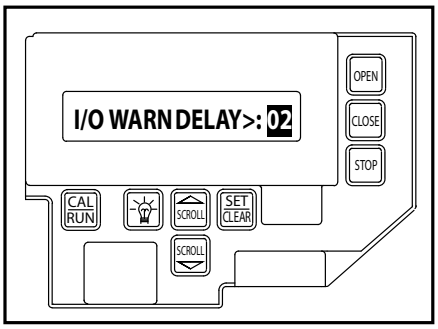



**Fig. 5D** **I/O WARN Delay**

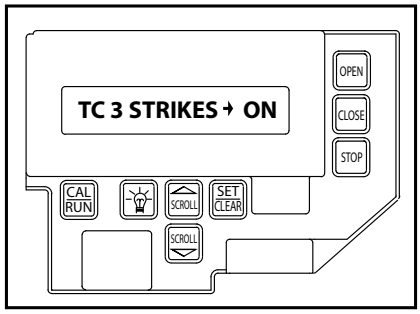



**Fig. 5E** **3 Strikes**

## Status LED's

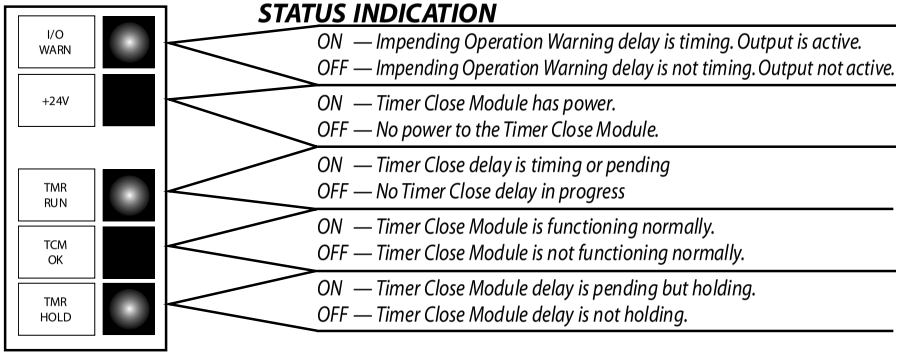



**Fig. 6A**

## Troubleshooting Guide

| PROBLEM | INDICATION | CHECK |
|---|---|---|
| **1.** TCM has no power. | +24V LED is **OFF**. | **1.** Check power to the operator.<br>**2.** Check that TCM ribbon cable is connected to the operator control board or another accessory module that is connected to the operator control board..<br>**3.** Check fuse F2 on the operator control board.<br>**4.** Contact the factory. |
| **2.** TCM is not functioning properly. | +24 V LED is **ON**.<br>TCM OK LED is **OFF**. | **1.** Check that TCM ribbon cable is connected to the operator control board or another accessory module that is connected to the operator control board.<br>**2.** Check that operator display is working normally and not indicating a system problem.<br>**3.** Turn power to the operator off, then back on.<br>**4.** Contact the factory. |

## Troubleshooting Guide (cont')

| PROBLEM | INDICATION | CHECK |
|---|---|---|
| **3.** I/O Warning Device won't work. | I/O WARN LED is **ON** | **1.** Check wiring between the warning device and the I/O WARN output terminals (see section 4).<br>**2.** Check power to the Warning Device.<br>**3.** Check Warning Device operation.<br>**4.** Go to #2. |
| **4.** I/O Warning Device won't work. | I/O WARN LED is **OFF** | **1.** If TMR HOLD LED is on, go to #6.<br>**2.** If TMR RUN LED is off, go to #5. |
| **5.** TCM will not start a timer cycle. | TMR RUN LED is **OFF** | **1.** If TMR HOLD LED is on, go to #6.<br>**2.** Check that activation device(s) will open the door.<br>**3.** Check that the Timer Close feature for the activation device is turned "ON" using the operator keypad and display (see section 5).<br>**4.** Go to #2 |
| **6.** TCM starts a timer cycle but won't close door. | TMR RUN LED is **ON**<br>TMR HOLD LED is **ON** | **1.** Check that one or more devices set to start the Timer cycle is not active.<br>**2.** Check that one or more reversing devices is not signaling an obstruction.<br>**3.** Check that Timer Hold input is not active.<br>**4.** Attempt to close the door using the Close keypad key. If the operator fails to close— or closes and then reverses, the Error Code will indicate which device may be holding the Timer operation<br>**3.** Go to #2. |
| **7.** TCM starts a Timer cycle. but won't close door. | TMR RUN LED was **ON,** but is now off.<br>TMR HOLD LED is **OFF** | **1.** STOP wall button or STOP keypad key was/is active.<br>**2.** Go to #2. |
| **8.** Can't turn Timer Close feature "ON" for a given input. | On Calibration display, the feature will not toggle from "OFF" to "ON" when Set/Clear key is pressed. | **1.** One of the following reversing devices must be turned "ON" in Calibration Mode before you can turn the Timer Close feature "ON." ODC STB (Monitored Series II Photocells "_" on operator control board), MON. EDGE (Monitored Edge Sensor) or N-C SAFETY (Normally-Closed Reversing Input). (see section 5).<br>**2.** Go to #2. |
| **9.** Door reverses on close attempts. | +24 V LED is **OFF**. | **1.** Check operator display. The Error Code should indicate what is causing the reversal.<br>**2.** TCM is not functioning. If reversal is caused by an input to the TCM or a faulty TCM, normal door operation (except Timer Close), can be restored by turning off Monitored Edge Sensor (MON. EDGE) and Normally Closed Reversing Input (N-C SAFETY) in Calibration Mode (see section 5.)<br>**3.** Or go to #1. |

# Troubleshooting Guide (cont')

| PROBLEM | INDICATION | CHECK |
|---|---|---|
| **10**. Door reverses on close attempts. | +24V LED is **ON**. TCM OK LED is **OFF**. | **1**. Check operator display. The Error Code should indicate what is causing the reversal.<br>**2**. TCM is not functioning properly. If reversal is caused by an input to the TCM or a faulty TCM, normal door operation (except Timer Close), can be restored by turning OFF Monitored Edge Sensor (MON. EDGE) and Normally-Closed Reversing Input (N-C SAFETY) in Calibration Mode (see section 5).<br>**3**. Or go to #2. |
| **11**. Door reverses o close attempts. | TCM Times and attempts to close door. Door reverses Immediately. | **1**. Check operator display. The Error Code should indicate what is causing the reversal.<br>**2**. If caused by an input to the TCM or a faulty TCM, normal door operation (except Timer Close), can be restored by turning OFF Monitored Edge Sensor (MON. EDGE) and Normally-Closed Reversing Input (N-C SAFETY) in Calibration Mode (see section 5). |
| **12**. Door reverses on close attempts. | +24V LED is **ON**. TCM OK LED is **ON**. | **1**. Check operator display. The Error Code should indicate what is causing the reversal.<br>**2**. Check wiring to all revering devises that are turned "ON," including Normally-Open Reversing Input.<br>**3**. Check all reversing devices.<br>**4**. Check wiring to all control inputs.<br>**5**. Go to #2. |
| **13**. Timer will not hold when Timer Hold input activated. | TCM times out and closes. TMR HOLD LED is **OFF**. | **1**. Check wiring to Timer Hold Device.<br>**2**. Check Timer Hold Device.<br>**3**. Go to #2. |
| **14**. Timer will not hold when Timer activating device is being held on. | TCM times out and closes. TMR HOLD LED is **OFF**. | **1**. Check that Timer Close feature for the activation device is turned "ON" using the operator keypad and display (see section 5).<br>**2**. Check that the activation device(s) will open the door.<br>**3**. Check wiring to device for intermittent connections.<br>**4**. Go to #2. |
| **15**. Timer will not hold when a reversing device is activated. | TCM times out and closes. TMR HOLD LED is **OFF**. | **1**. Check that the reversing feature is turned "ON" using the operator keypad and display (see section 5 or Operator Manual).<br>**2**. Check that the reversing device will reverse a closing door.<br>**3**. Check wiring to device for intermittent connections.<br>**4**. Go to #2. |
| **16**. I/O Warn Output will not turn off. | I/O WARN LED is **ON** | **1**. I/O Warn Delay is still timing down (see section 5 for a description).<br>**2**. Go to #2. |
| **17**. I/O Warn Output will not turn off. | I/O WARN LED is **OFF** | **1**. Go to #2. |

***For continued Troubleshooting* — Refer to the main control board condition codes and error codes and procedures in the operator owners/installation manual.**

# NOTES

The authorized distributor of Genie Products, whose name appears below ("Seller") warrants to the original purchaser of the Accessory Module specified on the right, subject to all the terms and conditions hereof, that the Accessory Module will be free from defects in material and workmanship under normal use and service for a period of two (2) years following the date of installation.

Seller's sole obligation under this warranty is specifically limited to repairing or replacing, at its option, any parts which shall be determined by Seller to be defective during the warranty period. Any labor charges are excluded and will be the responsibility of the owner.

This warranty applies only to an Accessory Module which is installed in commercial or industrial building applications. This warranty does not apply if the Accessory Module has been altered or repaired by any person not authorized by The Genie Company to do so, or if it has been damaged due to misuse or accident or failure to provide necessary maintenance. This warranty is made only to the original purchaser of the Accessory Module and is not transferrable or assignable.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL The Genie Company BE RESPONSIBLE FOR, OR LIABLE TO ANYONE FOR, SPECIAL, INDIRECT, COLLATERAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES, even if The Genie Company has been advised of the possibility of such damages. Such excluded damages include but are not limited to loss of goodwill, loss of profits, loss of use, interruption of business or other similar indirect financial loss.

Claims under this warranty must be made in writing promptly to the Seller whose name and address appears to the right, and must be made within the warranty period. (Proof of purchase and identification as the original purchaser may be required.)

Accessory Module Model No._____

Original Purchaser_____

Installation Address_____

Seller_____

Seller's Address_____

Date of installation_____

Signature of Seller_____

# Accessory Module Return Material Authorization Procedure

The Manufacturer will only accept returned materials that are in warranty. Products being returned must be accompanied by a Return Authorization (RA) Tag. To obtain a Return Authorization Tag please use the following guidelines.

- To return an Operator Accessory Module during the warranty period, the Seller must contact the Technical Service Group at *1.800.843.4084*. The following information is required; Accessory Module Model Number, Date Code, and a description of the malfunction. The Technical Service Group will issue, via mail, an RA Tag for the Accessory Module.
- Upon receipt of the Accessory Module, the Manufacturer will evaluate the part for a defect in material and/or workmanship. If it is determined there is a defect, the Seller will be credited the cost of the Accessory Module. If it is determined there is not a defect in material and/or workmanship, no credit will be issued.


The Genie Company
1-800-843-4084
www.GenieCompany.com