NAPCO®
333 Bayview Avenue
Amityville, New York 11701
For Sales and Repairs, (800) 645-9445
For Technical Service, (800) 645-9440
Publicly traded on NASDAQ Symbol: NSSC

NAPCO FREEDOM 64
F-64TPBR TOUCHPAD
INSTALLATION INSTRUCTIONS

WI1505B 1/07

GENERAL DESCRIPTION

The NAPCO Freedom 64 Deadbolt-Activated Home Protection System, a revolutionary new concept in residential security, combines intuitive interactive arming with a passive disarming scheme, providing a system which is not only effortless to use, but also virtually false alarm resistant during the arming and disarming sequences.

In addition to the primary F-64TP Touchpad, the F-64TPBR Bedroom Touchpad provides a convenient second Touchpad through which the system can be armed and disarmed. The F-64TPBR Touchpad is designed to be located at a distance from the primary Exit/ Entry area, such as a bedroom, and allows arming with exterior AND interior protection on while staying home.

The F-64TPBR Touchpad allows "Night Arming", which protects all areas of the premises (perimeter and interior) but deactivates the F-64TPBR Touchpad PIR motion sensor. Night Arming allows increased protection while maintaining the false alarm reduction benefits of the Freedom system.

The system is armed with a simple push of a button ([**STAY**] or [**NIGHT**]) on the F-64TPBR Touchpad control module. To disarm, simply press the **DISARM / RESET** button.

The F-64TPBR Touchpad's integral wide-angle PIR motion sensor acts as an occupancy sensor that provides the microprocessor with activity information which prevents the user from making errors during the arming and disarming periods. In addition, the F-64TPBR Touchpad PIR will provide interior intrusion protection when the system is armed in the AWAY mode. During an entry delay or an alarm, the system may only be disarmed and silenced by inserting the I-FOB digital key into the I-FOB slot on the F-64TPBR Bedroom Touchpad or F-64TP Touchpad.

By allowing this level of system control without traditional numeric keypad interaction, the Freedom System will provide a significant reduction in false alarms due to user error and also provide comfortable use of the system to those customers whose technophobic tendencies would prevent them from arming and disarming the system using a traditional keypad.

The Freedom System also prevents the arming of the alarm system if all deadbolts are not engaged, a high security feature normally found only in very elaborate high-end installations.

The F-64TPBR Touchpad is one of 4 Touchpad designs within the NAPCO Freedom 64 Home Protection System. The three other Touchpad designs include:

- **F-64TP**: Wireless Touchpad (See WI1499)
- **F-64TPG***: Garage Door Touchpad (See WI1508)
- **F-64TP-H***: Hardwired Touchpad (See WI1532)

INTEGRAL 4 ZONE EZM

Each Touchpad contains an integral 4 zone EZM, allowing the zone capacity of the F-64 panel to be expanded. With a maximum of four Touchpads allowed per system, a total of 16 zones may be added to the system using Touchpads. Three GEM-K1CA keypads can also be added (each with an integral 4 zone EZM) adding 12 additional zones for a total of 28 zones from Touchpads and keypads. Additional GEM-EZM's and/or GEM-EZM4-8's can be added, thus maximizing the capacity of the F-64 control panel to a grand total of 64 zones within the system.

INSTALLATION

The F-64TPBR Touchpad need only be mounted and wired to the existing Freedom system. The Freedom system can support up to four Touchpads.

POWER

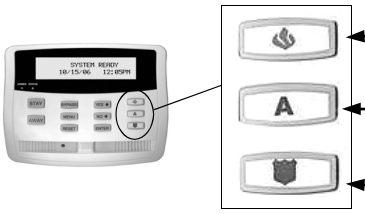
The F-64TPBR Touchpad is powered by the keypad bus of the F-64 control panel. Each F-64TPBR Touchpad draws 70mA at 11.7-12.5VDC and an additional 140mA in alarm. The standby current may be reduced by cutting jumper "W1" (permanently sets the back-light to lowest setting). Deduct these values from the system standby and alarm current, as described in the wiring diagram.

***Not evaluated by UL.**

This manual contains the Installation Instructions for the Freedom F-64TPBR Touchpad. It is intended to be used in conjunction with the Freedom F-64 Panel Installation Instructions (WI1501), the Freedom F-64 Panel Programming Instructions (WI1502) and the F-64TP or F-64TP-H Installation Instructions (WI1499 or WI1532)

EMERGENCY BUTTON DECALS

Position as follows:



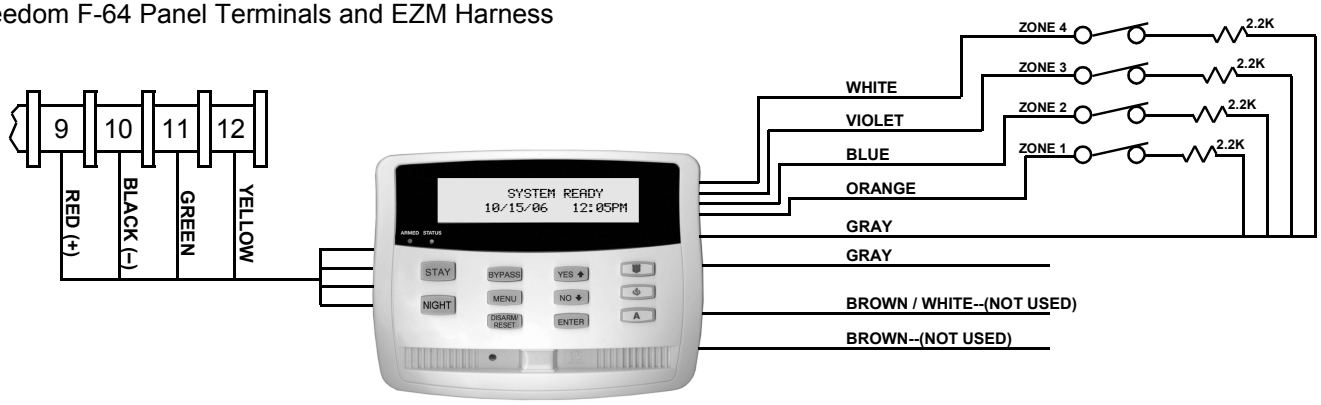
Flame = Fire Emergency (apply to top button).

A = Auxiliary Emergency (optional) (apply to middle button).

Shield = Police Emergency (apply to bottom button).

F-64TPBR TOUCHPAD WIRING DIAGRAM

Freedom F-64 Panel Terminals and EZM Harness



INSTALLING MULTIPLE TOUCHPADS

Up to four F-64TP Series Touchpads can be installed in one F-64 control panel. Each Touchpad is configured at the factory to be "Touchpad #1"; all additional keypads and Touchpads must have their Touchpad number changed via **Touchpad Configuration Mode** (see WI1502 for instructions).

F-64 REMOTE BUS TERMINALS

The F-64TPBR Touchpad communicates to the F-64 control panel via the F-64 panel's 4-wire keypad bus. Wire the F-64TPBR Touchpad to the F-64 panel as shown below and in the wiring diagram.

- **Terminal 9** - Red wire, positive 12VDC.
- **Terminal 10** - Black Wire, negative (-) GND.
- **Terminal 11** - Green Wire (data)
- **Terminal 12** - Yellow wire (data)

EZM HARNESS

- **Zone 1** - Orange & Gray wires
- **Zone 2** - Blue & Gray wires
- **Zone 3** - Violet & Gray wires
- **Zone 4** - White & Gray wires

Alarm Output

The F-64TPBR Touchpad has an integral sounder, but unlike the F-64TP Touchpad, the sounder *does not* meet (even at full volume) the NFPA audible requirement of 85dB @ 10 feet for residential fire or residential burglary.

Alarm Sounder Volume Adjustment

The F-64TPBR Touchpad alarm circuit includes a potentiometer which regulates the volume of the sounder. The sounder volume is set at the factory to the minimum level (fully counter-clockwise) and can be increased to satisfy the requirements of the installation. Turn the potentiometer clockwise to increase the volume.

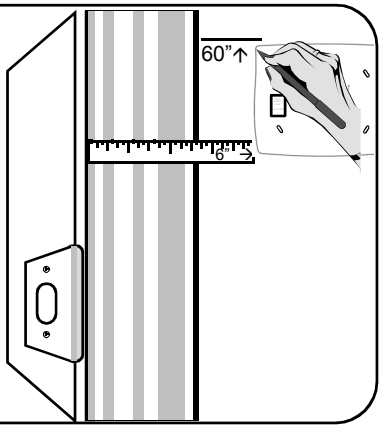
Installing the Freedom F-64TPBR Touchpad

Care should be taken to select a mounting area that provides a proper field of view for the PIR sensor. See page 4 for more information. Install Touchpads with all power removed. The following instructions illustrate the steps required for installation of the F-TPBR Touchpad.

1 **Open the Touchpad**. Remove the front of the Touchpad housing by inserting a screwdriver into the (2) slots in the bottom of pad and twist.

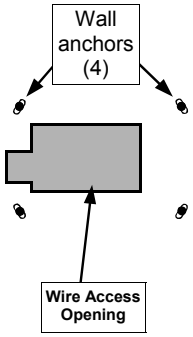
2 **Mark the holes**. Affix the template (see page 12), to the wall adjacent to the deadbolt strike hole at a height of approx. 60" (to the top) and about 6" from the door frame.

Mark or punch through the 4 oval mounting holes and the wire access opening.



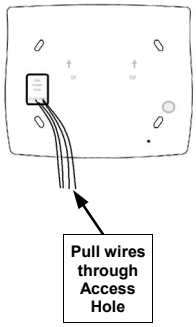
3 **Cut access hole.** Install (4) wall anchors and cut access hole in wall. Use template as needed.

Warning: Use caution when cutting holes. There may be high voltage wiring in wall.

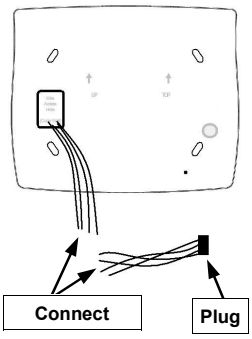


4 **Pull wires through access hole.** Pull 4 conductor bus wire from F-64 control panel though access hole opening in wall.

Next, be sure to insert wires through hole in the Touchpad base. Then secure the Touchpad base to wall.



5 **Make Connections.** With Touchpad base secured to the wall, solder or crimp bus wires to the Touchpad connector plug using the wiring diagram as a guide. **Note:** Before connecting, wires can be cut to a shorter length to allow excess wires to be pushed back into the access hole opening in the wall.



6 **Install the Touchpad Face.** Double-check all connections to the Touchpad using the wiring diagram as a guide. Snap the front of the Touchpad onto the base by first inserting the 2 slots in the top onto the corresponding tabs on the base and then snapping the bottom into place.

Once all Touchpads are installed in the system, you can begin additional installation tasks, outlined below.

Additional Installation Tasks

After installing all system hardware with the power off, the following general steps are necessary to get the system powered up and running. See WI1499 or WI1532 for complete procedures.

1. At the F-64 control panel, place the jumper in Configuration Mode and apply power to the panel.
2. Each Touchpad installed in the system must be configured--enter Touchpad Configuration Mode (with "OUT OF SYSTEM" in the LCD window, press and hold **MENU** for 2 seconds). Enroll the F-LTRANS wireless transmitters, if applicable.
3. Temporarily replace the primary Touchpad with an F-64PROG programmer, and program the panel using the Easy Menu Driven Program Mode (or use PCD-Windows Quickloader Download software).
4. Enter *User Program Mode* and create a Master I-FOB for the system.
5. Insert the newly created Master I-FOB into the Touchpad and enter the Touchpad Menu Mode by pressing **MENU**. Press **NO** until "ACTIVATE PIR TEST" appears in the LCD window and perform a test of each Touchpad PIR.
6. Test the system.

TOUCHPAD PIR

The F-64TPBR TOUCHPAD includes an integral PIR sensor which provides the following system functions:

Activity Sensor

The PIR is always gathering activity information which provides the system with data that is used to insure proper use of the system and prevent user errors. For example, if the user arms AWAY and the F-64TPBR TOUCHPAD senses movement in the room within 1 minute after arming AWAY, the system will automatically default to STAY mode arming, preventing a false alarm. If additional PIR sensors are installed, the activity of these sensors will also be included in these decision making processes.

Intrusion Protection Device

When the system is armed AWAY, the PIR provides intrusion protection with a range of 25' at a 90° pattern of protection. An intruder detected in this protected area will cause the Zone mapped to the Touchpad PIR to go into alarm with the corresponding central station report. **NOTE:** If Touchpad PIR Intrusion Protection is not desired, it may be disabled by installing configuration jumper JP1.2.

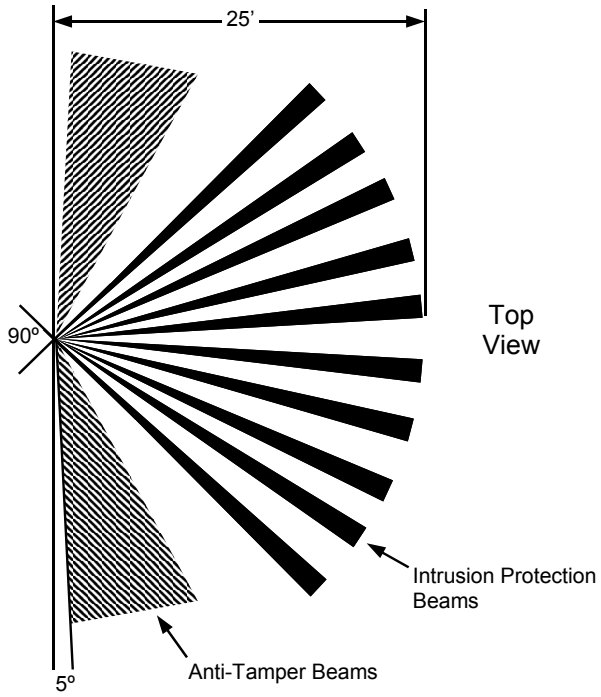
Pet Protection

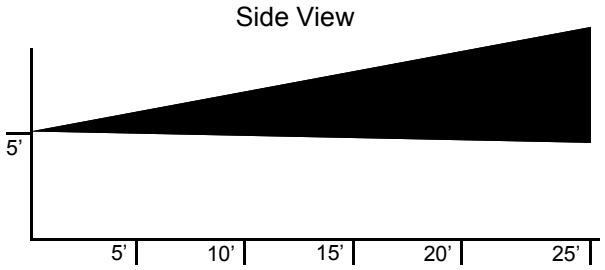
The F-64TPBR Touchpad is provided with a Pet Alley Lens installed, creating a low-sensitivity zone close to the ground that will not detect pets under 24" in height. **Note:** For installations with pets, additional perimeter and/or interior protection may be required to ensure system integrity.

Protection Pattern

The diagrams at right illustrate the Pet Alley pattern of protection. The *Side View* pattern of protection illustrated reflects an F-64TPBR Touchpad installation height of 5 feet.

IMPORTANT: If the F-64TPBR TOUCHPAD can be accessed from an area that is not protected by the pattern of protection provided by the Touchpad PIR, then additional protection is required. This may include protecting other doors and windows or additional space protection.

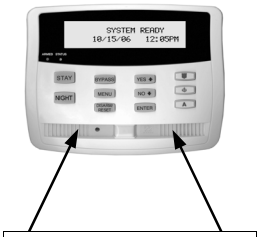




Adjusting the Freedom F-64TPBR Touchpad Sounder Volume

The F-64TPBR Touchpad alarm circuit includes a potentiometer which regulates the volume of the sounder. The sounder volume is set at the factory to the minimum level (fully clockwise) and can be increased to satisfy the requirements of the installation. Adjust the volume as follows:

1 **After all components of the system are installed and fully functioning,** determine if the volume of the F-TPBR Touchpad sounder is sufficient. The volume is set to the lowest level at the factory, and if you determine it should be increased, continue with the following steps.



Check volume with the F-64TPBR Touchpad fully installed and mounted.

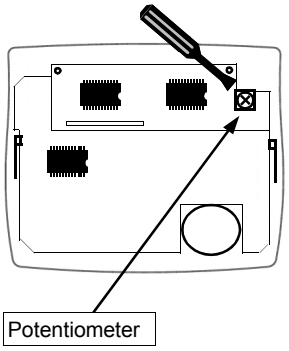
2 **To turn siren on, enter Touchpad Menu Mode** by pressing the **MENU** button. Press the **ENTER** button until "ACTIVATE BELL TEST Y/N" appears in the LCD display. Press **YES** to turn the Touchpad siren on.

3 **Open the F-64TPBR Touchpad**. Remove the front of the F-64TPBR Touchpad housing by inserting a screwdriver into the (2) slots in the bottom of pad.

Push the screwdriver up and gently twist to unhook the plastic tabs which secure the face of the F-64TPBR Touchpad to its base.

Push tabs up and twist

4 **On the circuit board, adjust the sounder volume.** Using a small Phillips-head screwdriver, turn the potentiometer counter-clockwise to increase the volume until desired the level is reached.



Potentiometer

5 **Re-install the F-64TPBR Touchpad Face**

To be certain the sounder is adjusted correctly, re-install the F-64TPBR Touchpad face. Snap the front of the Touchpad onto the base by first inserting the 2 slots in the top onto the corresponding tabs and then snapping the bottom into place.

6 **Listen to the F-TPBR Touchpad sounder** from various areas of the room.

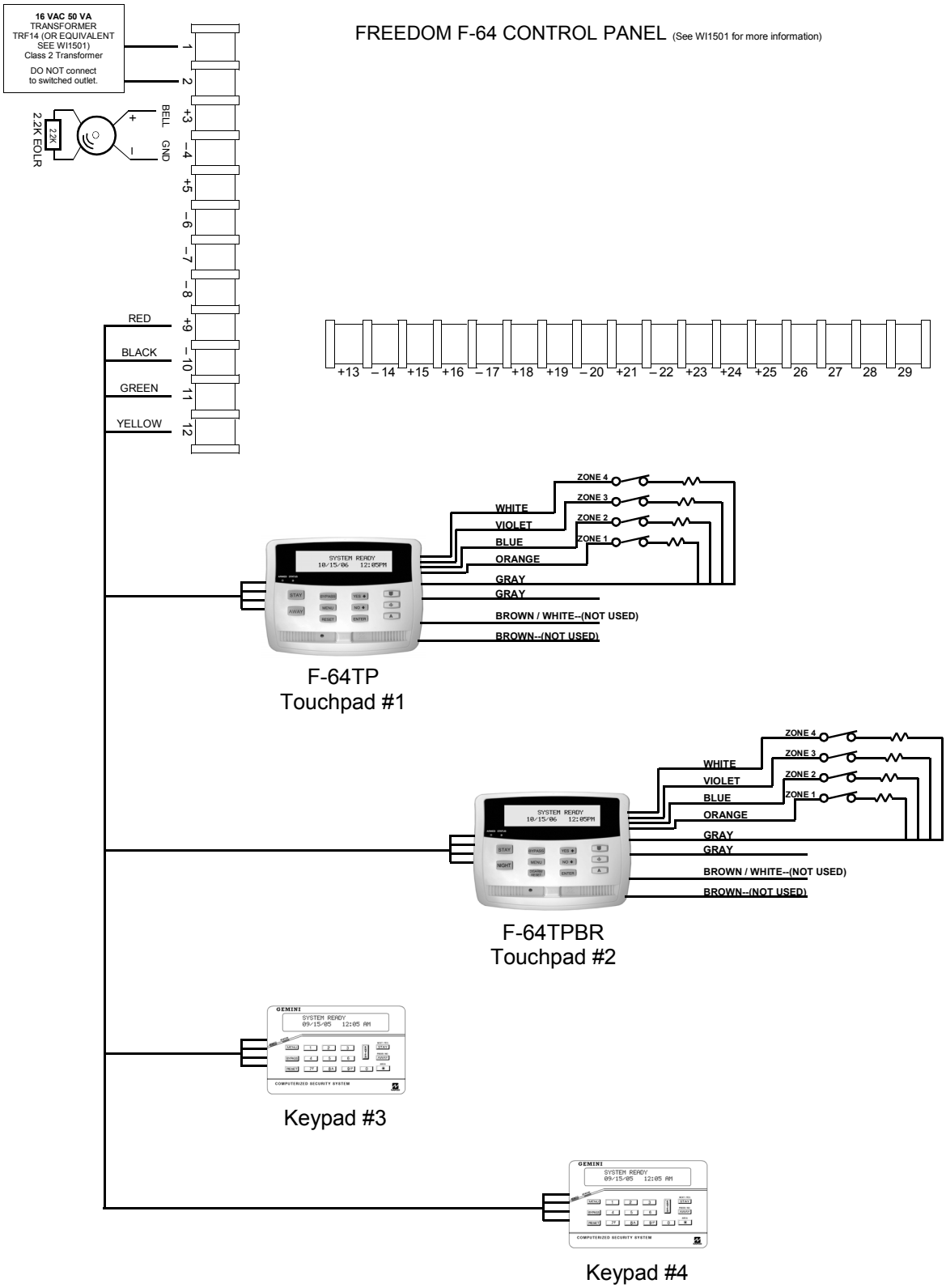
If further adjustment of the sounder volume is required, repeat steps 3-6 as needed.

7 **Turn off siren.**
Press the **DISARM / RESET** button to silence the siren. If you wish to re-enter **Touchpad Menu Mode**, press the **MENU** button and then press the **ENTER** button until "ACTIVATE BELL TEST Y/N" appears in the LCD display. Press **YES** to turn the Touchpad siren on.

8 **Install the F-64TPBR Touchpad Face**

Double-check all connections to the F-64TPBR Touchpad using the wiring diagram as a guide. Be sure all access holes are sealed with putty to ensure the Touchpad is air tight. Snap the front of the Touchpad onto the base by first inserting the 2 slots in the top onto the corresponding tabs and then snapping the bottom into place.

SYSTEM OVERVIEW



* Multiple Touchpads and keypads must be added contiguously, without gaps. For example, if adding a second Touchpad with two additional keypads, the second Touchpad must be added as Touchpad number 2, with keypads added as numbers 3 and 4. Adding a keypad into slot number 2, with a Touchpad in slot number 3 is not allowed.

TROUBLESHOOTING

TOUCHPAD LIGHTS (ON FRONT OF TOUCHPAD) FAIL TO TURN ON WHEN POWER APPLIED

Check Touchpad power wires (red and black wires).

TOUCHPAD LCD WINDOW DISPLAYS "OUT OF SYSTEM" WHEN POWER APPLIED

Green wire either open or shorted. In addition, if a system trouble appears, the yellow wire is open or shorted.

THE TOUCHPAD FAILS TO CHIME* WHEN OPENING THE DOOR:

1. Be sure Chime is enabled by entering the Touchpad Menu Mode. On the Touchpad, press **MENU** until "Deactivate Chime" appears, thus indicating Chime is currently enabled. If "Activate Chime" appears, Chime is currently disabled (press **YES** to enable).
2. Verify the control panel is programmed for Chime to function in the system. Also verify Chime Time is programmed. See WI1502 for programming instructions).
3. Check the door contact continuity and door transmitter operation .

   Note: Transmitters CANNOT be programmed with their covers on. Remove transmitter cover to be tested (cover for all other transmitters must be installed).

THE SYSTEM DOES NOT ARM

On the Touchpad, the green READY light should be on. If the READY light is not on, there is another monitored deadbolt in the system (other than the primary exit door) that is unlocked or a perimeter zone faulted. All other monitored deadbolts must be locked and all zones secured for the system to be able to arm. **Note:** Faulted Zones will scroll in the Touchpad LCD Window.

***** The F-64 Control Panel may be programmed to disable Chime.

MOUNTING TEMPLATE