

# Exit Stopper®

STI-6400 Series



#### Features:

- · Alarm helps prevent unauthorized exits/entries through doors.
- · Easy to install.
- · Select volume, duration and immediate or 15 second delay for arming and trip.
- May be mounted on top, right, left or next to almost any door.
- · User can select on-site whether to use an alarm or annunciator.
- Less expensive than heavy horizontal bar type units and practical for all emergency doors.
- Contact STI for custom applications.

We Protect the Things that Protect You.

#### Table of Contents

Warnings and Cautions	Page 2
Warranty Information	Page 2
Specifications	Page 3
1. Dimensions	Page 3
2. Polycarbonate	Page 3
3. Electronics	Page 3
4. Remote Horn	Page 3
Circuit Board Set-Up	Page 4
Terminal Strip Layout	Page 4
Switch Settings	Page 4
Alarm Feature Description	Page 5
Installation Instructions All Units / STI-6400	Page 5
Mounting Options	Page 6
· STI-6402 Double Door additional install notes	Page 7
· STI-6403 Remote Horn additional install notes	Page 7
· STI-6404 Double Door with Remote Horn additional install notes	
· STI-6405 Exit Stopper with Momentary Reset	Page 7

# Warnings -

All units are recommended for indoor use, not for outdoor use. Unit must be tested periodically to verify the life of battery. STI recommends you change the 9 Volt battery twice a year. Installer may need to purchase a simple audio-meter, typically available at your local electronics store, to measure the sound in areas where the alarm is expected to be heard during normal noise environment. Results from this test may prove it beneficial to purchase additional exit stopper units. When purchasing a remote unit (STI-6403) you will need to periodically test the connections to make sure audibles function at a sound level to alert staff. Maximum of three STI-6403 may be used in parallel.

All specifications and information shown are current as of publication and subject to change without notice.

# **Warranty Information** –

- Three year guarantee against breakage of polycarbonate in normal use (one year on electro mechanical and electronic components).
- · Electronic warranty form at www.sti-usa.com/wc14

# Specifications -

### Polycarbonate Enclosure:

Dimensions	5.375" W x 5.375" H x 2 " D (137mm x 137mm x 51mm)
Flammability	UL94 V-2
Wall Thickness	0.12 in (3.05mm)

## Electronics: STI-6400 - All Units

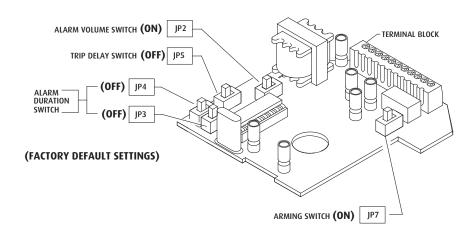
Power Source	9 VDC Alkaline or 9V-24VDC wired			
	Class II UL Listed transformer			
Horn Volume at 1 ft.	95 dB low / 105 dB high			
Relay Output	Form C Dry Contacts 0-30 VDC or VAC, 1 Amp			
Stand by Current	10uA			
Alarm Current	130mA at 95 dB / 200mA at 105 dB			
Operating Temperature Range	32° to 113°F (0° to 45°C)			

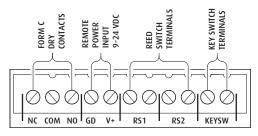
#### Electronics: STI-6403 and STI-6404 - Remote Horn Unit

Power Source	9 VDC operating power* only
Horn Volume at 1 ft.	95 dB low / 105 dB high
Stand by Current	0 A
Alarm Current	50mA at 95 dB/ 200 mA at 105 dB

<sup>\*</sup> Power source for the STI-6403 Remote Horn uses a separate power source from the STI-6400 alarm. The Remote Horn contains an internal 9 volt battery. Horn operates when the Form C contact at main unit is activated on alarm.

# Circuit Board Set-up





TERMINAL BLOCK WIRING CONNECTIONS

Figure 1

# **Switch Settings**

FEATURE	JP2	JP3	JP4	JP5	JP7
Volume - High (105 dB) at 1 ft.	ON*				
Volume - Low (95 dB) at 1 ft.	OFF				
Duration - 30 Second Alarm		OFF*	OFF*		
Duration - 180 Second Alarm		OFF	ON		
Duration - Continuous Alarm		ON	OFF		
Duration - Annunciator Mode		ON	ON		
Trip - Immediate				OFF*	
Trip - 15 Second Delay				ON	
Arming - Immediate					ON*
Arming - 15 Second Delay					OFF

<sup>\*</sup>Factory Settings

Note: Slide black lever to desired ON/OFF position as labeled on circuit board.

## **Alarm Feature Description**

- · Volume Switch JP2 Sets alarm volume to high 105 dB or low 95 dB.
- Duration Switch JP3 and JP4 Amount of time alarm sounds after trip. Arming resets at
  end of duration if door is closed. Alarm will not reset if in continuous mode; alarm sounds
  until battery is drained. Annunciator Mode is a series of 10 short beeps or until door is
  closed.
- Trip Delay Switch JP5 If you wish to ENTER an alarmed door without sounding the horn immediately, the trip delay will allow 15 seconds for you to enter and de-activate the alarm with the key switch before the alarm will sound.
- Arming Switch JP7 This mode is useful when an AUTHORIZED EXIT is required through alarmed door. In "ON" position immediate arming will set the alarm ready to function as soon as door is opened. In "OFF" position delay arming will allow 15 seconds for you to exit through the door without sending alarm signal.

#### **Installation Instructions**

Note: STI recommends setting up unit and testing settings prior to mounting.

- Make sure key switch is in the OFF position.
- 2. Remove tamper screw on side of unit and remove housing cover. Save this tool for future servicing and battery change (Fig. 2).
- 3. Set switches, on circuit board, to desired alarm settings (Fig. 1).
- 4. Test settings by connecting battery or external power source. If using external power source a Class II UL Listed transformer is required. If power is present at terminal block (Fig. 1) 9V battery is in no-load on standby power consumption.

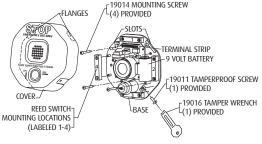


Figure 2

- 5. Mount main unit on or next to door using hardware provided. Reed switch mounting locations can be moved to one of the four positions shown in Fig. 2. If mounted next to door, route reed switch wire through knockout in bottom of housing as shown in Fig. 3.
- 6. Mount magnet on door frame (or door if unit is mounted next to door) using screws provided. When mounting on metal doors or door frames, use plastic spacers provided. Reed switch and magnet must be within 3/4" when door is closed (3/8" on metal door and frame). Please refer to figures 4, 5 and 6 on page 6 for other mounting options.
- If installing STI-6402, STI-6403, or STI-6404 continue to page 7 for more instructions (Fig. 7 and 8). STI-6402 mounting option is shown on page 6.
- 8. Replace cover by sliding flanges on 6x11/4 in. inside of cover into slots on base. Then rotate the cover over unit and snap close.

  Replace tamper screw.

#### VIEW SHOWING MAGNET INSTALLATION

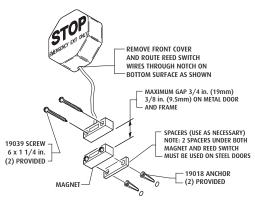


Figure 3

# TYPICAL FLUSH MOUNT DOOR JAM INSTALLATION

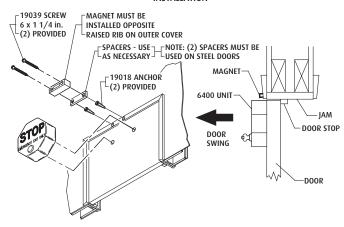
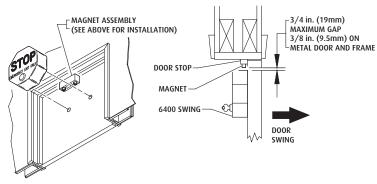


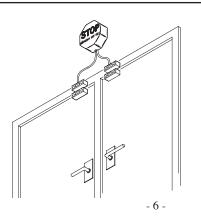
Figure 4

# TYPICAL RECESSED MOUNT DOOR JAM INSTALLATION



\*Note: When mounting reed switch on door and the main unit on wall, wire service loop must be used.

Figure 5



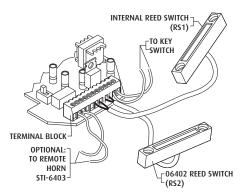
TYPICAL DOUBLE DOOR INSTALLATION STI-6402

Figure 6

#### STI-6402 Double Door Install Notes

- Determine length needed for reed switch wires. STI provides 1 reed switch with 6 ft. wires. Cut to desired length.
- Connect first reed switch in RS1 and second in RS2 (Fig. 7). (Refer to Fig. 1 for additional details on page 4.)
- If not using extra reed switch, add jumper across two terminals of RS2 on terminal block.

\*Note: Alarm will sound when either door is opened.



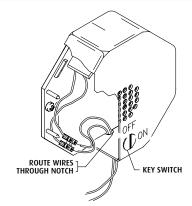
VIEW SHOWING INSTALLATION OF ADDTIONAL REED SWITCH 06402

Figure 7

#### **STI-6403 Remote Horn Install Notes**

- 1. Remove cover.
- Connect two conductor wire (14-24 AWG) from main unit terminal block pins COM and NO to remote horn unit terminal block. (wire not provided). Units can be set up to 300 ft. apart. Not polarity sensitive (refer to Fig. 1 and Fig. 7 for details).
- 3. Connect internal battery.
- 4. Mount similar to main unit with #8 x 1 in. screws and anchors if necessary.
- 5. Replace cover and screws.
- 6. Turn key switch to ON position.

\*Note: The ON/OFF key position is opposite from 6400 main unit. Remote horn sounds when main unit alarm is activated.



STI-6403 REMOTE HORN UNIT INSTALLATION

Figure 8

#### STI-6404 Double Door with Remote Horn Install Notes

The STI-6404 is a combination unit for double doors with a remote horn. Reference the installation instructions for the main unit, the STI-6402 and the STI-6403 for complete installation.

# STI-6405 Exit Stopper with Momentary Reset

The STI-6405 uses a momentary switch. After initial installation, unit is always on and you do not have to remember to turn it on when you leave a protected area. This model also eliminates having to remember to re-arm it because it is never off.

When the alarm is triggered, to silence the alarm, insert the key and turn completely to the "RESET" position and hold for 2 seconds, then release. The switch will spring back to its original position and push the key out. To turn the unit off, supply power must be removed.





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