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**EAGLE SECURITY PRODUCTS, INC.**



**FALSE ALARM TERMINATOR™ VOX  
TWO WAY AUDIO SYSTEM  
with Auto-VOX Switching**

**INSTALLATION INSTRUCTIONS**



**TWO-WAY  
AUDIO**  
Alarm Verification

**“LEADERS IN TWO WAY AUDIO TECHNOLOGY”**

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## **1.0 GENERAL.**

### **1.1 FEATURES.**

The FALSE ALARM TERMINATOR™ VOX features include:

- ◆ Auto-VOX Switching for simple, easy use.
- ◆ Self contained speaker/microphones with quick, convenient terminal connectors.
- ◆ Three microphone zones, individually controlled. Up to 4 mic's per zone.
- ◆ Two wire, non-shielded, microphones.
- ◆ Eagle's Enhanced Voice for extraordinary clarity in talk back mode.
- ◆ Central station detection with automatic disconnect upon central station receiver hang-up.
- ◆ Compatibility with all digital communicators and control panels.
- ◆ Microprocessor technology which provides a wide range of operating modes.
- ◆ Activation by auto-trip with or without enables (2) which requires no hard trigger from the control panel. Direct activation (hard trip) with or without enable (1).
- ◆ Answering machine and/or downloadable communicator bypass.
- ◆ Remote volume control of the microphone from the central station.
- ◆ Optional Digital Stored Audio and Remote Arm Disarm Module for system enhancement.
- ◆ Two versions: Standard for quick programming and EEPROM for enhanced system capability.
- ◆ Microphone piezo filter
- ◆ Integrated siren driver.

### **1.2 DEFINITIONS.**

LINE HOLD - The immediate turn on of the audio module which allows the module to use the phone call generated by the digital communicator when communicating with the central station.

CALL BACK - A procedure when the central station calls the premises after an alarm activation to initiate two way communications.

MANUAL CONTROL - The central station controls who talks and who listens with commands generated from a Touch-Tone® phone.

LISTEN ONLY / TALK ONLY - Both terms with respect to the central station. LISTEN ONLY allows the central station to listen without talking. TALK ONLY allows the central station to talk without listening.

## **2.0 REQUIREMENTS.**

### **2.1 POWER.**

Operating voltage: 9 to 14 VDC

Current draw (standby): 44 mA max. (with one 2172)

Current draw (active): 180 mA max. (with one 2172)

Current draw (siren): 210 mA max. (with one 2172)

### **2.2 SYSTEM.**

The Eagle FALSE ALARM TERMINATOR™ VOX requires the following hardware:

1. A communicator/control panel to provide initial communication with the central station.
2. Connections to power (12VDC & Ground) and telephone (Tip & Ring).
3. A minimum of one speaker/microphone (Eagle Model 2172F Flush Mount or 2172S Surface Mount).

### **2.3 CENTRAL STATION.**

1. A receiver with two way capability (stays on line after kiss off) and/or an Eagle UTA™ Interface.
2. A Touch-Tone® phone in parallel with the receiver line if used in the line hold mode.

## **3.0 INSTALLATION.**

### **3.1 INSTALLATION SUMMARY.**

1. Mount the FALSE ALARM TERMINATOR™ VOX into control panel.
2. Connect supplied RJ-31X cord from RJ-31X block to **TELCO**. Connect **DIALER** to control panel phone connections.
3. If using a separate 2172 speaker/mic, run cable (standard 4 conductor) from the TERMINATOR™ VOX to the speaker/mic location. Speaker for audio and siren output, if desired.
4. Connect cable from the speaker/mic to the TERMINATOR™ VOX (Speaker to **SPKR**, Microphone to **MIC1**), if applicable
5. Mount one Eagle Model 2172 speaker/microphone, if applicable.
6. Repeat steps 4 - 6 with additional Model 2172's, if desired, except connecting Microphone signal to **MIC2** or **MIC3**. Additional speakers should be connected maintaining a minimum of 8 ohms impedance.
7. If using external siren driver, connect to **EXT SIREN** or if using TERMINATOR™ VOX internal driver and the positive bell output is active during alarm, connect bell output to the **ENAB +** terminal (position 6) or if the negative bell output is active during alarm, connect bell output to the **ENAB -** terminal (position 7).
8. Set option selection switches (or program EEPROM).
9. Connect Earth Ground to terminal strip. Connect power & system ground to terminal strip.

### **3.2 OPTION SWITCH DESCRIPTION.**

The Eagle FALSE ALARM TERMINATOR™ VOX has many modes of operation. It can be custom configured for each installation. The following is a description of each of the option setting switches (DIP Switch model only).

**SW1:** Selects the type of activation; Direct wired (hard) trip or Auto trip.

**SW1:** ON = Direct wired trigger.  
OFF = Auto trip.

**SW1 ON:** Use this setting when you have a control panel which provides a two way activation output.

**SW1 OFF:** Use this setting when there is no two way activation output on the control panel.

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**SW2:** ON = ENABLES are required for either Direct (hard) wired or Auto trip.  
OFF = ENABLES are not required.

**SW2 ON:** ENABLES are required. Reference paragraph 4.7 for explanation of enablers.

**SW2 OFF:** ENABLES are not required. Reference paragraph 4.7 for explanation of enablers.

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**SW3:** ON = Trigger causes module to activate in line-hold (immediate turn-on).  
OFF = Trigger activates 5 minute 1 ring call back window.

**SW3 ON:** A trigger input (either hard wired or auto-trip) causes the module to activate immediately in the line hold mode. This is the most widely used mode.

**SW3 OFF:** A trigger input (either hard wired or auto-trip) causes the module to activate its five minute one ring call back mode.

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**SW4:** ON = Called party hang up enabled.

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OFF = Called party hang up disabled.

**SW4 ON:** The auto disconnect feature is enabled. The module will automatically disconnect if the receiver disconnects before the central operator picks up the line. This feature requires a called party disconnect signal from the local central office.

**SW4 OFF:** The auto disconnect feature is disabled.

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**SW5:** ON = Enables the internal siren driver.  
OFF = Disables the internal siren driver. Enables external siren driver.

When using an external siren driver, this switch must be in the OFF position. If the internal siren driver is desired to be used, select ON. See paragraph 6.1 for further information.

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**SW6:** ON = Subsequent Alarms will NOT shut down TERMINATOR™ VOX. Two Way will remain active.  
OFF = Subsequent Alarms will shut down TERMINATOR™ VOX & allows alarm to report.

**TABLE 1: SUMMARY OF SWITCH SETTINGS.**

SWITCH	FUNCTION	ON	OFF
1	TRIGGER	DIRECT (HARD)	AUTO TRIP
2	ENABLES	REQUIRED	NOT REQUIRED
3	TRIGGER FUNCTION	IMMEDIATE TURN ON	SET UP RING DETECT
4	AUTO DISCONNECT	DISCONNECT ON	DISCONNECT OFF
5	SIREN DRIVER	INTERNAL	EXTERNAL
6	SUBSEQUENT ALARMS	WILL NOT REPORT	<b>WILL REPORT</b>

### 3.3 WIRING AND PLACEMENT.

#### 3.3.1 TERMINAL STRIP IDENTIFICATION - WIRING CONNECTIONS

##### DESCRIPTIONS

**DC +/- :** Connection 12VDC power to these positions. This powers the module.

**EARTH:** Connect EARTH GROUND to this terminal. This is MANDATORY for proper surge & lightning protection! Warranty voided without proper EARTH connection.

**TRIG (+) / ENAB (-):** Two functions: A Positive Edge Direct (hard) wired TRIGGER. (Input must go negative (0 to 2 VDC) then back positive (4 to 12 VDC) in order to trigger.) Also used as a second (negative) ENABLE for the auto trip function. (Input must be negative (0 to 2 VDC) to ENABLE the auto trip.)

**TRIG (-) / ENAB (+):** Two functions: A Negative Edge Direct (hard) wired TRIGGER. (Input must go positive (4 to 12 V DC) then back negative (0 to 2 VDC) in order to trigger.) Also used as a second (positive) ENABLE for the auto trip function. (Input must be positive (4 to 12 VDC) to ENABLE the auto trip.)

**ENAB + / -:** Two functions: A positive edge and negative edge enable and internal siren driver input (dip switch #5 must be ON.) If the internal siren drive is selected, the enable is still operational.

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**MIC1, MIC2, MIC3:** Three zoned microphone inputs. Zones 1,2 and 3, respectively. Each microphone zone requires two wires, polarity independent.

**SPKR:** Speaker connection. **Maintain a minimum of eight (8) ohms of total impedance at all times utilizing a series/parallel combination. See Diagram 1.**

**EXT SIREN:** It may be desired to connect an external siren driver to the Eagle FALSE ALARM TERMINATOR™ VOX utilizing the speaker within the Model 2172 SPEAKER/MIC instead of the TERMINATOR VOX's internal siren driver. Connect an External Siren's output here. SWITCH #5 must be OFF.

Eagle recommends the Eagle Model 1401 Siren Driver if not using either the TERMINATOR™ VOX internal siren driver or a driver built into a control panel.

**TABLE 2: TERMINAL STRIP IDENTIFICATION - SUMMARY**

POSITION	CONNECTION
DC+/-	Power input; 12VDC (between 10VDC & 14VDC)
EARTH	Earth connection - MANDATORY!
TRIG / ENAB	Doubles as TRIGGER and ENABLE - see text above
ENAB	Second ENABLE. Also internal siren input (Switch 5 ON)
MIC1 - 3	Microphone inputs; Zones 1-3, respectively
SPKR	Speaker output - maintain 8 ohms or more
EXT SIREN	External siren input - switch 5 must be OFF

**3.3.2 AUX BOARD CONNECTOR (P5) - OPTIONS WIRING CONNECTIONS.**

AUX BOARD CONNECTOR (P5) - Options wiring connections is for use with proprietary Eagle enhancement modules. There are no user serviceable connections.

**3.3.3 RELAY CONNECTOR (P3) - RELAY WIRING CONNECTIONS.**

The RELAY provided on the FALSE ALARM TERMINATOR™ VOX provides switching for external devices automatically when the module activates & de-activates. The relay is energized (changes state) automatically when the module is activated. The relay returns to its de-energized state when the module is shut down.

**TABLE 3: RELAY CONNECTOR (P3) - RELAY WIRING CONNECTIONS.**

WIRE	CONNECTION
BROWN	Common 1; max. 2 amps
RED	Normally Closed 1; max. 2 amps
ORANGE	Normally Open 1; max. 2 amps
YELLOW	Common 2; max. 2 amps
GREEN	Normally Closed 2; max. 2 maps
BLUE	Normally Open 2; max. 2 amps

**DESCRIPTIONS**

**BROWN:** COMMON #1 connection. Maximum 2 amps.

**RED**: NORMALLY CLOSED #1 connection. Maximum 2 amps.

**ORANGE**: NORMALLY OPEN #1 connection. Maximum 2 amps.

**YELLOW**: COMMON #2 connection. Maximum 2 amps.

**GREEN**: NORMALLY CLOSED #2 connection. Maximum 2 amps NORMALLY CLOSED #1 connection. Maximum 2 amps.

**BLUE**: NORMALLY OPEN #2 connection. Maximum 2 amps.

### **3.3.4 TC1 & TC2 CONNECTIONS.**

TC1 and TC2 are test connectors for factory use only. Do not make any connections to this header.

## **3.4 ADJUSTMENTS/INSTALLATION.**

**SPEAKER VOLUME** - Adjusts the gain of the speaker; CW - increases gain; CCW - decreases gain.

## **3.5 SPEAKER/MIC INSTALLATION.**

### **3.5.1 LOCATION.**

A speaker/mic can cover a range of up to 2500 square feet. This is dependent on the environment in which they are installed. Installation is recommended at or near system keypads with a minimum of one per floor, excluding basement.

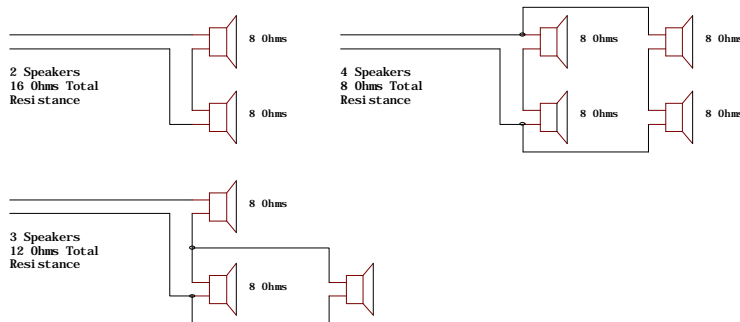
### **3.5.2 QUANTITY OF SPEAKER/MICS.**

Up to four (4) Model 2172 microphones *per channel* may be used with the Eagle FALSE ALARM TERMINATOR™ VOX. Up to four speakers *total* may be used when connected in a series-parallel combination so as **not to drop below eight (8) ohms of total impedance**. See Diagram 1.

## **3.6 COMMUNICATOR PROGRAMMING.**

When programming the digital communicator, it is advised to begin the "TELEPHONE NUMBER" with "**\*70**" (tone dialing) or "**1170**" (pulse dialing). This will allow uninterrupted communication when the subscriber has call waiting.

## DIAGRAM 1: WIRING MULTIPLE SPEAKERS.



## **4.0 ACTIVATION.**

### **4.1 IMMEDIATE TURN ON.**

When option **SW3** is set in the ON position, the module will activate when a trigger is received on either of the ORANGE or YELLOW wires or when the unit's auto-trip activates the module. The hard trigger must correspond with the completion of the communicator's alarm report (kiss off from the Central Station). When the two way audio module is activated in this mode, the operator, if listening at that time, will hear a "bop-beep-bop" tone acknowledgment generated by the module. This is the operator's notification that the module is on and active. The LED will flash four (4) times every six seconds to indicate that the unit has been activated in the line-hold mode and is waiting for an operator to press any touch tone digit. Once the operator presses a touch tone digit, the LED will stay on until disconnect.

**NOTE: THE CENTRAL STATION RECEIVER MUST BE CAPABLE OF A "LISTEN-IN" FUNCTION, I.E., THE RECEIVER MUST HOLD THE PHONE LINE OPEN UNTIL AN OPERATOR CAN PICK UP THE LINE. THE EAGLE UTA™ CAN PROVIDE THIS FUNCTION IF YOUR RECEIVER CANNOT. CONTACT EAGLE FOR INFORMATION.**

The operator can control the operation of the module using a Touch-Tone® phone per Paragraph 5.0.

### **4.2 USING RING DETECTOR.**

#### **4.2.1 DESCRIPTION.**

##### **FIVE MINUTE WINDOW.**

The FALSE ALARM TERMINATOR™ VOX has a call back mode which activates upon a trip. The call back mode can be initiated with hard trip input or from the auto trip circuit. This sets up the system to answer an incoming call after an alarm which has just been reported by the digital communicator (**SW3** is OFF). The central station operator will have 5 minutes in which to call back the system and have it answer within one ring. This feature allows call back **only** within five minutes of an alarm activation. The LED will flash two flashes every six seconds to indicate it is in the call back mode waiting for the phone to ring.

#### **4.2.2 CALL ANSWERING.**

When the system detects an incoming call, it will pick up the phone line and send a "bop-beep, beep bop" as an answer acknowledgment. The LED will flash three flashes every six seconds to indicate it is waiting for an acknowledgment code to be entered (from the central operator).

The system now has the line, but two way is **NOT** active.

The operator has 15 seconds to enter the acknowledgment code. The code is \* 5 5 \* to activate TWO WAY.

If the code is not sent in 15 seconds, the TERMINATOR™ VOX will hang-up and continue in the one ring call back mode for an additional five minutes.

When the correct code is received, the system will generate a "beep-beep-beep" acknowledgment and go directly into listen-in mode. The LED will remain on steady until disconnect.

The operator can control the operation of the module using a Touch-Tone® phone per Paragraph 5.0.

### 4.3 LED STATUS INDICATOR.

The FALSE ALARM TERMINATOR™ VOX features an LED status indicator. From the LED status indicator, a technician can determine the current status of the module. The following chart summarizes the five different modes.

**TABLE 4: LED STATUS INDICATOR.**

# FLASHES EVERY SIX SECONDS	MODE
1 (ONE)	STANDBY OPERATION - ALL OK
2 (TWO)	ONE RING CALL BACK MODE, WAITING FOR RING
3 (THREE)	ONE RING CALL BACK MODE, WAITING FOR ACKNOWLEDGMENT CODE.
4 (FOUR)	TRIGGERED. WAITING FOR CS TO SEND COMMAND.
STEADY ILLUMINATION	TWO WAY ACTIVE.

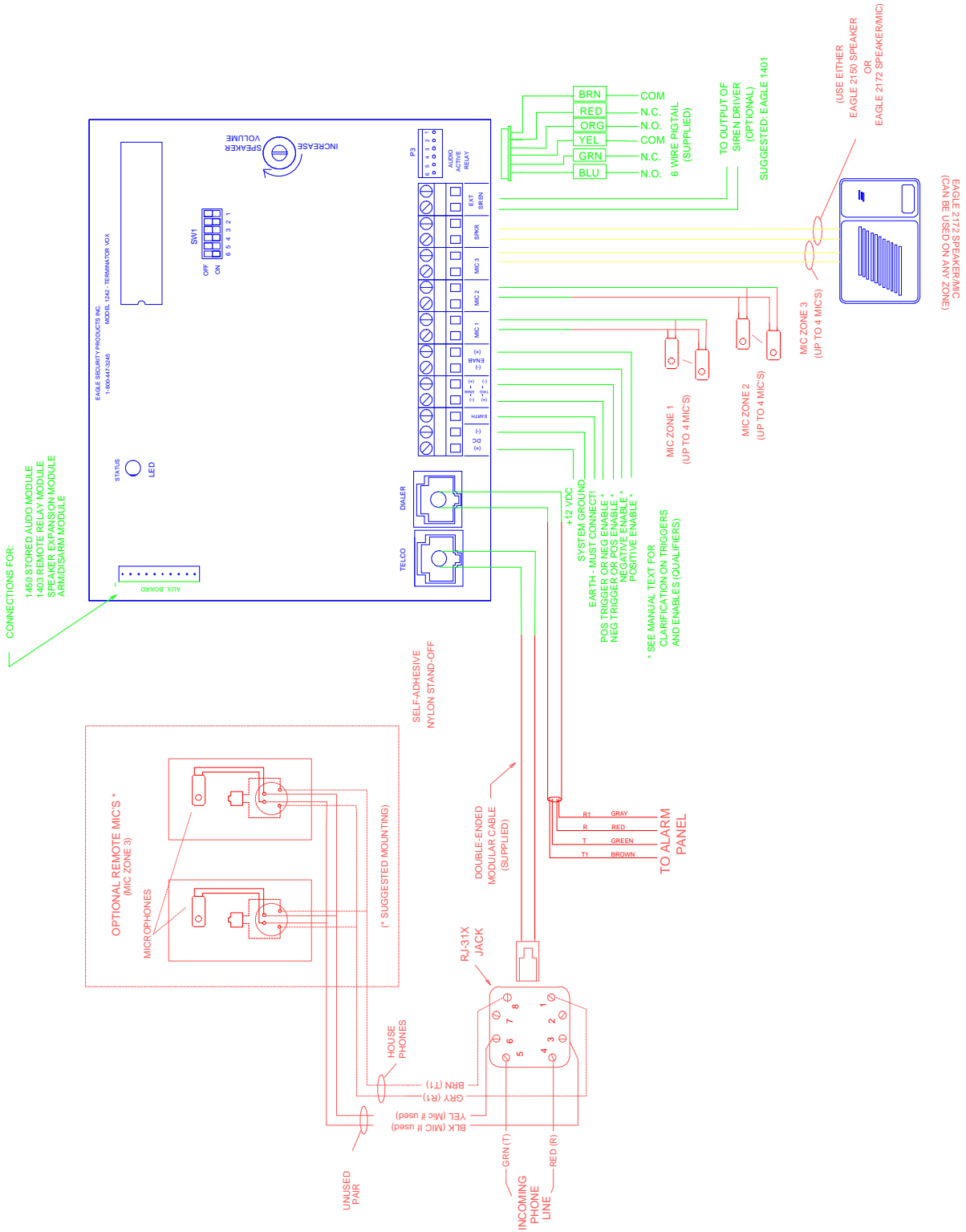
### 4.4 CENTRAL STATION DETECTION.

The FALSE ALARM TERMINATOR™ VOX features central station detection with auto-disconnect. This feature allows the module to detect if the central station receiver has dropped off the line before the central station operator has picked up on the line. If the module detects a receiver line drop, it will shut down and enable the 5 minute call back window. Detection takes about 15 to 20 seconds. (This feature works in most area in the United States. Accounts in some rural areas may not be able utilize this feature due to current central office equipment. If this feature is not available, the module will function properly, but without the central station detection feature.)

Additionally, if the central station operator fails to send a shut down command, the TERMINATOR™ VOX will automatically shut down (within 15 seconds) of the operator hanging up.

Call waiting may cause erratic operation with this feature. In areas where call waiting can not be disabled (See paragraph 3.6) and the premises has call waiting, it is recommended to disable central station detection (**SW4-OFF**).

# DIAGRAM 2: WIRING SCHEMATIC.



## 4.5 AUTO-TRIP.

The FALSE ALARM TERMINATOR™ VOX Two Way Audio System utilizes an auto-trip feature. This feature is essential for control panels that do not have a two way activation output. The auto-trip activates the module by monitoring the phone line and detecting when the control panel/communicator finishes sending its data to the receiver. When finished, the module activates maintaining the phone line connection at the premises. The auto-trip feature can be disabled at the time of installation by setting **SW1 ON**. (See Paragraph 3.2).

When **SW1** is in the OFF position the auto-trip feature is active.

When **SW1** is in the ON position, the auto-trip feature is disabled. When disabling the auto-trip, the hard trigger input, is required. (See paragraph 4.6.)

## 4.6 TRIP INPUT.

The FALSE ALARM TERMINATOR™ VOX has a direct wired trigger input. This input is used to activate the module from a control panel which has a trip for two way voice. This trip (trigger) must occur at kiss-off. Consult your control panel manual or call Eagle technical assistance for further information.

## 4.7 ENABLE INPUTS.

The TERMINATOR™ VOX has two sets of ENABLES (qualifiers). Talk Listen qualifiers enable two way to engage only if a siren or voltage input is activated prior to a communication. One of set of ENABLERS is the **ENAB** connectors, the TERMINATOR™ VOX'S internal siren triggers. These wires not only activate the internal siren, but also act as a dual trip qualifier. This means the siren output and communicator has to be active to engage two way. Either one without the other will not activate the module. This voids activation's by trouble signals.

The second set of ENABLERS are the **TRIG / ENAB** connectors. These also have a dual function. If SWITCH #1 is in the OFF position (AUTO-TRIP) then these wires act as an ENABLER for the AUTO-TRIP function. ENABLE inputs can be generated from the control panel using **programmable outputs, siren outputs**, etc. They are advantageous because they can eliminate unwanted two way activation's under certain alarm reporting such as opening & closing reports, low battery reports, system test reports and others. If SWITCH #1 is in the ON position, these act as a manual trigger which activate the module in either the immediate or call back mode (dependent upon switch #3).

## 5.0 CONTROLLING THE MODULE.

### 5.1 SWITCHING BETWEEN TALK & LISTEN AND VOX.

After the module has been successfully activated by one of the methods described above, the operator can control the operation of the system using a Touch-Tone® phone in the following manner:

**CAUTION:** IF THERE IS A LOUD, CONTINUOUS BACKGROUND NOISE, SUCH AS A RADIO, THE CENTRAL STATION OPERATOR SHOULD **NOT** ATTEMPT TO INCREASE THE GAIN OF THE TERMINATOR™ VOX. THIS MAY CAUSE THE SYSTEM TO LOOSE THE ABILITY TO RECOGNIZE THE TONES FROM THE CENTRAL STATION. IF THE MODULE "LOCKS-UP" INTO THE "LISTEN ONLY, HIGH GAIN" MODE, PRESS AND HOLD DIGIT **2** FOR A MINIMUM OF FIVE (5) SECONDS. THIS SHOULD UNLOCK THE MODULE. REPEAT IF NECESSARY.

To switch to "LISTEN ONLY, HIGH GAIN", press and release digit **3**. To switch to "VOX", press and release digit **2**. To switch to "TALK ONLY", press and release digit **1**. The operator can switch back and forth

between these modes as often as one wishes independent of the mode in which the module was in when activated.

## 5.2 EXTENDING & DISCONNECTING.

The FALSE ALARM TERMINATOR™ VOX provides five (5) minutes of two way. During two way, the module will generate a "beep" once every minute. Upon the fourth and final minute of two way the module will generate a two tone "beep bop" warning the central station that there is only one more minute of two way before the module automatically disconnects. These beeps will be heard at the premise when module is in the "TALK MODE". These beeps will always be heard by the central station. To extend the listen in shut down time (reset to 5 minutes), press and release digit **7** at any time during the two way (before the module disconnects). Additionally, anytime a command is sent to the FALSE ALARM TERMINATOR™ VOX (a **1** , **2** , **3** or **7** ) the module will automatically reset the five minute timer. The only time the **7** command need actually be sent is when the module is used in the "LISTEN ONLY" mode for the duration of the call. To shut down the module, press and release digit **9** at any time. Before the module shuts down it will generate a "beep-beep-bop" tone indicating it is disconnecting. To shut down the module and initiate the five minute call back window, press and release digit **8** at any time. This will allow the central station or any other party to call back and have an active two way session. (This is beneficial when a home or business owner wishes to have an active two way session after the central station has finished.)

Every time either shut-down command is sent (an **8** or a **9** ) the module will generate an acknowledgment tone (beep-beep-bop). This alerts the central that the command was received and will be exercised.

## 5.3 SUBSEQUENT ALARM REPORTING.

The FALSE ALARM TERMINATOR™ VOX has provisions for subsequent alarm reporting. This provides the central station operator with the capability of selecting what will happen when a subsequent alarm occurs while two way is active. Subsequent alarm reporting has two options which are selected by the position of DIP SWITCH #6.

If DIP SWITCH #6 is in the ON position, the TERMINATOR™ VOX will hang up for a subsequent alarm prior to the c.s. operator picking up on the line.

If DIP SWITCH #6 is in the OFF position, the TERMINATOR™ VOX will NOT hang up for a subsequent alarm prior to the central station operator picking up on the line. The only exception to this is if two subsequent alarm reportings occur before the operator picks up the line, then the TERMINATOR™ VOX will shut down and let the subsequent alarm report.

Once the operator picks up on the line the TERMINATOR™ VOX operates independently of the selection above (independent of DIP SWITCH #6). The operator is notified that a subsequent alarm is pending by "beep-bop .... beep-bop .... beep" warning. If the operator does nothing and ignores the warning, the FALSE ALARM TERMINATOR™ VOX will disconnect in 30 seconds allowing the subsequent alarm to report. If the operator wishes to ignore the subsequent alarm, the operator sends the "EXTEND" command (a **7** on the touch tone phone). If the operator wishes to allow the subsequent alarm to report immediately, a **9** is sent by the operator which shuts down the module and allows the subsequent alarm to report.

**WARNING:** If your communicator/panel DOES NOT sense dial tone before dialing, a two second pause is required before dialing to provide adequate time for a fresh line to be restored.

**TABLE 5: TOUCH-TONE® COMMAND SUMMARY.**

TOUCH -TONE® COMMAND	FUNCTION
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1	TALK ONLY
2	VOX MODE
3	LISTEN ONLY, HIGH GAIN
7	RESET SHUT DOWN TIMER or IGNORE SUBSEQUENT ALARM
8	SHUT DOWN MODULE & INITIATE 5 MINUTE CALLBACK WINDOW
9	SHUT DOWN MODULE or ALLOW SUBSEQUENT ALARM TO REPORT
* 5 5 *	ACTIVATE MODULE FROM CALL BACK MODE

## 5.4 MICROPHONE ZONE CONTROL.

The FALSE ALARM TERMINATOR™ VOX has provisions for controlling microphone zones. This provides the central station with the ability to activate or de-activate any or all microphone zones. There are three microphone zones. (The microphones connected to the RJ-31 are connected in parallel to zone 3.)

When the module activates, all microphones are active. Touch tone command 4 activates the microphone command sequence. To activate microphone zone one (MIC1) only, the command 4 1 is sent. To activate microphone zone two (MIC2) only, the command 4 2 is sent. To activate microphone zone three (MIC3) only, the command 4 3 is sent. To turn OFF ALL microphones, the command 4 0 is sent. To turn ALL microphones ON, the command 4 \* is sent.

**TABLE 6: MICROPHONE TOUCH-TONE® COMMAND SUMMARY.**

TOUCH-TONE® COMMAND	FUNCTION
4 1	ZONE 1 ONLY (ON)
4 2	ZONE 2 ONLY (ON)
4 3	ZONE 3 ONLY (ON)
4 0	ALL MICROPHONES OFF
4 *	ALL MICROPHONES ON
4 4 thru 4 9, 4 #	INVALID; IGNORES ENTRY(both digits)

## 5.5 SPEAKER ZONE CONTROL.

Only one (1) speaker zone exists on the FALSE ALARM TERMINATOR™ VOX. If zoning of speakers is desired, connect an Eagle Speaker Zone Expander to the **AUX BOARD** connector. If an Eagle Speaker Zone Expander is connected, the speaker (**SPKR**) output on the module remain active at all times, independent of which zone is selected.

## **5.6 INTERNAL CONTROLS.**

### **5.6.1 CENTRAL STATION DETECTION.**

The FALSE ALARM TERMINATOR™ VOX features Eagle's exclusive central station detection. This feature allows the audio module to detect a central station receiver dropping off line before an operator picks up on the two way line. When detected (about 15 to 20 seconds post receiver hang up) the module will shut itself down and initiate the five minute call back window.

This feature also is useful if the central station operator does not send the shut-down command. In this case the module will shut down (after 15 to 20 seconds post operator hang up). It will not activate the call back mode.

## **6.0 OPTIONAL CONNECTIONS.**

### **6.1 INTERNAL SIREN.**

The internal siren driver requires an input from the alarm panel. These inputs activate the internal driver. The inputs are the **ENAB +** and **ENAB -** on the main terminal block. When the **ENAB +** receives +12VDC or when the **ENAB -** receives a ground, the FALSE ALARM TERMINATOR™ VOX will generate a siren tone. The tone will cease during two way or when the input returns to its non-alarm condition. The internal siren uses the same speaker as the audio. Dip switch #5 must be ON for the internal siren to operate. When dip switch #5 is ON, the ENABLE function still operates!

### **6.2 EXTERNAL SIREN DRIVER.**

See paragraph 3.3.1 for connections. Uses the same speaker as the audio.

### **6.3 MODEL 1403 REMOTE CONTROL RELAY MODULE.**

The Model 1403 may be connected to provide additional central station control of the premises via four integrated and individually controlled relays. The relays can be selected anytime the TERMINATOR™ VOX module is active. The Model 1403 provides relay outputs which can be programmed for momentary or latching operation. Possibilities include controlling cameras, zoning additional microphones and/or speakers, activating lamps or strobes for the hard of hearing, etc.

An Eagle Model 1403 Remote Control Relay Module may be connected to **AUX BOARD (P5)** connector. Connect the two wire harness supplied with the 1403 directly into the left two positions on the **AUX BOARD (P5)** header, Positions 9 & 10.

### **6.4 DIGITALLY STORED AUDIO MODULE.**

When available, Eagle's Digitally Stored Audio Module which stores sounds occurring in the premises prior to alarm activation, can be connected to the TERMINATOR™ VOX Module via the **AUX BOARD (P5)** connector.

### **6.5 ZONED SPEAKER MODULE.**

When available, Eagle's Zoned Speaker Module which allows the speaker output to be broken into three separate and independent zones, can be connected to the TERMINATOR™ VOX Module via the **AUX BOARD (P5)** connector. With the operation of the Zoned Speaker Module, the main speaker output on the module (**SPKR**) remains active during all zone addressing.

**7.0 NOTES & RETURNS.**

**TECHNICAL SUPPORT HOTLINE: 800.447.E<sub>3</sub>A<sub>2</sub>G<sub>4</sub>L<sub>5</sub>E**

When using multiple speaker/mics at the subscriber end, be aware that loud background noise picked up by one speaker/mic will "drown out" the other speaker/mic.

**As with all electronic devices, electrostatic discharges can damage the components. Handle the circuit board with care!**

Features and specifications subject to change without notification.

**Use of this equipment may be in violation of local laws. Please verify and obey all local laws. Eagle Security Products, Inc. does not assume any liability for the illegal use of this equipment.**

Trademarks and Registered Trademarks are the property of their respective owners.

**RETURNS:**

**IMPORTANT: COPY, COMPLETE AND RETURN THIS FORM WITH YOUR RETURNS.**

**NOTE: YOU MUST OBTAIN A RMA NUMBER FROM TECH SUPPORT FROM THE FIELD BEFORE RETURNING PRODUCT.**

<b>SECTION 1</b> (TO BE COMPLETED BY DEALER)		DATE ...../...../.....
RMA NUMBER .....		
DEALER NAME .....		PHONE No. (.....) .....
ADDRESS .....		FAX No. (.....) .....
CITY/STATE ..... ZIP .....		CONTACT .....
SHIP TO .....		SHIP REPAIRED PRODUCT VIA:
.....		UPS    UPS BLUE    UPS RED
		YOUR FED-EX # .....

**SECTION 2** (TO BE COMPLETED BY DEALER)

LINE #	PART NUMBER	DESCRIBE PROBLEM	COSMETIC REPAIR (Y/N)
1			
2			
3			

## **8.0 FCC REQUIREMENTS**

1. The Federal Communications Commission (FCC) has established Rules which permit this device to be directly connected to the telephone network. Standardized jacks are used for these connections. This equipment should not be used on party lines or coin lines.
2. If this device is malfunctioning, it may also be causing harm to the telephone network; this device should be disconnected until the source of the problem can be determined and until repair has been made. If this is not done, the telephone company may temporarily disconnect service.
3. The telephone company may make changes in its technical operations and procedures; if such changes affect the compatibility or use of this device, the telephone company is required to give adequate notice of the changes. You will be advised of your right to file a complaint with the FCC.
4. If the telephone company requests information on what equipment is connected to their lines, inform them of:
  - a. The telephone number this unit is connected to
  - b. The ringer equivalence number
  - c. The USOC jack required
  - d. The FCC Registration number

Items 'b' and 'd' are indicated on the label.

The ringer equivalence (REN) is used to determine how many devices can be connected to your telephone line. In most areas, the sum of the RENs of all devices on any one line should not exceed five (5.0). If too many devices are attached, they may not ring properly.

5. In the event of equipment malfunction, all repairs should be performed by our Company or an authorized agent. It is the responsibility of users requiring service to report the need for service to our Company or to one of our authorized agents. Service can be obtained at:

Eagle Security Products, Inc.  
11650 Genesee Street Suite #2  
Alden, NY 14004-9630  
SALES: 800.447.E<sub>3</sub>A<sub>2</sub>G<sub>4</sub>L<sub>5</sub>E or 716.937.0095  
FAX: 716.937.3127

**TECHNICAL SUPPORT HOTLINE:  
800.447.E<sub>3</sub>A<sub>2</sub>G<sub>4</sub>L<sub>5</sub>E**

or at your local installation company.

EAGLE SECURITY PRODUCTS FALSE ALARM TERMINATOR™ VOX (Model 1242)  
Complies with Part 68, FCC Rules  
FCC Registration #: 1SYUSA-18688-KX-N  
Ringer Equivalence : 0.0B

### **LIMITED WARRANTY**

Eagle Security Products, Inc. Warrants that the products of its manufacture shall be free from defects in materials or workmanship to one year from the date of invoice if such goods have been properly installed, are subject to normal proper use, and have not been modified in any manner whatsoever. Upon return of the defective product to the nearest Eagle Security Products dealer, Eagle Security Products will, at its sole discretion, either repair or replace, at no cost to the customer, such goods as may be of defective material or workmanship. Customers outside the United States are to return products to their distributor for repair.

In addition, any out of the box failure will be replaced at no charge providing the unit has not been altered physically. Alterations include, but not limited to, soldering, the addition of tape / foam tape or any form of physical damage.

EAGLE SECURITY PRODUCTS, INC. SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM LOSS OF PROPERTY OR OTHER DAMAGE OR LOSSES OWING TO THE FAILURE OF EAGLE SECURITY PRODUCTS' PRODUCTS BEYOND THE COST OF REPAIR OR REPLACEMENT OF ANY DEFECTIVE PRODUCTS.

EAGLE SECURITY PRODUCTS, INC. MAKES NO WARRANTY OF FITNESS OR MERCHANTABILITY AND NO OTHER WARRANTY, ORAL OR WRITTEN, EXPRESS OR IMPLIED, BEYOND THE ONE YEAR WARRANTY EXPRESSLY SPECIFIED HEREIN.