
EAGLE SECURITY PRODUCTS, INC.



Model 2222

FALSE ALARM TERMINATOR[®] DUO EE
TWO WAY AUDIO SYSTEM
with Auto-VOX Switching

INSTALLATION INSTRUCTIONS



“LEADERS IN TWO WAY AUDIO TECHNOLOGY”

1.0 GENERAL.

1.1 FEATURES.

The FALSE ALARM TERMINATOR™ DUO EE (a.k.a. Model 2222EE) is a EEPROM version of Eagle's 2222 that features non-volatile EEPROM memory. It is identical to Eagle's Model 1242 with connections to Eagle's Model 1423 Expansion Module, a new flash-based microprocessor and ability to be used in a more powerful manual-only mode.

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™ DUO EE 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).

3.0 INSTALLATION & PROGRAMMING.

3.1 INSTALLATION SUMMARY.

1. Mount the FALSE ALARM TERMINATOR™ DUO EE 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 2222 to the speaker/mic location. Speaker for audio and siren output, if desired.
4. Connect cable from the speaker/mic to the 2222 (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 2222 internal driver and the positive bell output is active during alarm, connect bell output to the "ENAB+" terminal or if the negative bell output is active during alarm, connect bell output to the "ENAB-" terminal.
8. Program EEPROM if defaults are not being used.
9. Connect Earth Ground to terminal strip. Connect power & system ground to terminal strip.

3.2 PROGRAMMING OPTIONS.

With the 2222 version you will be able to program many features. A summary of all the PROGRAMMING OPTIONS is listed below.

Option 1: Hard wire or Auto Trip - DEFAULT = 2 (AutoTrip)

- 1 = "Hard Trip" - Use this setting when the control panel provides a two way activation output.
2 = "Auto-Trip" - Use this setting when there is no two way activation output on the control panel.

Note: Option 1 must be programmed as 2 when using speakerphone option.

Option 2: Trigger enables required - DEFAULT = 2 (Enables NOT required)

- 1 = ENABLES are required.

2 = ENABLES are NOT required.

Option 3: Activate immediately or 1 ring call back mode - DEFAULT = 1 (LINK) Connects immediately.

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

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

Option 4: Central Station Detection - DEFAULT = 1 (Enabled)

1 = 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.

2 = The auto disconnect feature is disabled.

(See 4.2.1 "Five minute window" description)

Option 5: Internal or External Siren Driver - DEFAULT = 1 (Internal)

1 = Enables the internal siren driver.

2 = Disables the internal siren driver. Enables external siren driver.

When using an external siren driver, this must be set to 2. If the internal siren driver is desired, select 1.

Option 6: Subsequent Alarm Handling - DEFAULT = 2 (Subsequent Alarms will shut down)

1 = Subsequent Alarms will not shut down 2222. Two Way will remain active.

2 = Subsequent Alarms will shut down 2222 & allow alarm to report.

This option determines the way the 2222 processes a subsequent alarm BEFORE the central station operator picks up on the call. Once the CS operator picks up on the call the operator has control.

Option 7: Speakerphone option - DEFAULT = 2 (No speakerphone)

1 = Speakerphone enabled

2 = No speakerphone

Note: The Speakerphone option also requires that Option 1 be programmed as a 2.

This option determines whether 2222 utilizes the TRIG/ENABLE input as an TRIG/ENABLE or as a manual speakerphone toggle. Note that with the selection of the speakerphone option, you eliminate the TRIG/ENABLE feature.

Option 8: Call Back acknowledge sequence - DEFAULT = 2 (* 5 5 *)

1 = Single * will access (old Eagle standard)

2 = * 5 5 * will access (newer Eagle standard)

3 = Custom code will access (See Options 11 and 12)

This determines which sequence of Touch-Tone® digits will acknowledge the 2222 in the call back mode after an alarm activation or in full time call back mode.

Option 9: Voice Message Bypass - DEFAULT = 0 (Option disabled)

1 - 9 = Selects Bypass. The number entered selects the number of rings required before hanging up.

0 = Option disabled.

This is also known as the ring-pause ring mode. This selects the number of rings for the first "ring" before hanging up and calling back. The unit will always answer on the first ring subsequent to hanging up after the required number of rings, provided the option is enabled.

Option 10: Full Time Call Back - DEFAULT = 1 (1 ring)

- 1 – 9 = Selects full time callback active. The number entered selects the number of rings before the 2222 answers.
- 0 = Option disabled.

This determines the number of rings the 2222 will answer when in the full time call back mode. This applies to both the Maintenance Code (option 11) and the User Code (option 12).

Option 11: Maintenance Code - DEFAULT = 1 2 3 4

Any four digits, 0000 through 9999 (numbers ONLY) may be programmed.

This option allows the DEALER/CENTRAL STATION to program the options and re-program it's self. It cannot re-program the user code. When used after the audio board has answered a call, **it cannot** access the two way audio controls.

Option 12: User Access Code - DEFAULT = 5 6 7 8

Any four digits, 0000 through 9999 (numbers ONLY) may be programmed.

This option allows the USER ONLY to call in at any time and access Two Way Voice. When accessing the system with the USER CODE, only the USER CODE can be reprogrammed. The USER CODE cannot re-program the DEALER CODE or any system options.

3.3 PROGRAMMING VIA TELEPHONE CALL-IN.

There are two methods available for accessing the programming mode by phone. They are:

1. If the module is programmed for full time call back (Option 10 = 1 – 9 rings) the unit can be called from an external phone. Upon answering you will hear a BOP/BEEP – BEEP/BOP tone. Enter the four digit User Code, (Default = 5 6 7 8). After the code is accepted you will hear a BOP/BOP/BOP tone. Now follow procedure outlined in paragraph 3.3.1.
2. During any two way session (The 2222 is connected to the Central Station and the operator is in control) you can enter the program mode by following the procedure outlined in paragraph 3.3.1.

Note: To facilitate first time programming the unit is defaulted to full time call back = one ring (Option 10). If you do not want this feature be sure to disable it during programming.

3.3.1 PROGRAMMING AFTER ACCESSING UNIT

3.3.1.1 PROGRAMMING OPTIONS 1 THROUGH 11.

Once the unit is on line you are ready to access programming mode.

Access the programming mode by entering * 0 . You will hear a BOP-BOP-BOP.

Now enter the maintenance code. The default is 1 2 3 4 . You will hear a BOP-BOP-BOP.

Enter the options starting with Option #1. All options must be entered in sequence independent of the number of actual changes. If you make a mistake, press * to start over.

When the last digit of the Maintenance Code is entered the 2222 will automatically exit the program mode and you will hear BOP-BOP-BOP. Changes take effect upon exiting programming mode. You do not need to power down the unit.

If you only need to change a few of the options, but not all, you can exit from the middle of the programming and save your changes by pressing * # . You will hear BOP-BOP-BOP upon exiting. Example: If you only need to change Option 4 you would enter the program mode, enter the data for Options 1,2,3 & 4 then press * # . You will hear BOP-BOP-BOP upon exiting.

To exit without saving changes press * * . You will hear BOP-BOP-BOP upon exiting.

3.3.1.2 PROGRAMMING CODES ONLY

You can directly access to the Maintenance Code or the User Code by pressing * 9 after the unit is online. You will hear a BOP-BOP-BOP.

Enter the code you wish to change. You will hear another BOP-BOP-BOP.

Now enter the new code. You will hear a BOP-BOP-BOP.

To exit without saving changes press * *. You will hear BOP-BOP-BOP upon exiting.

To exit and save changes press * # . You will hear BOP-BOP-BOP upon exiting. Changes take effect upon exiting programming mode. You do not need to power down the unit.

3.3.1.3 DEFAULTING THE UNIT

If you get lost in the programming and need to reset the unit to its default programming, momentarily short the two pins next to the EEPROM labeled 'DFLT'.

TABLE 1: PROGRAMMING TOUCH-TONE COMMAND SUMMARY.

COMMAND	FUNCTION
5 6 7 8	DEFAULT USER ACCESS CODE
* 0	TO ACCESS PROGRAMMING MODE
* 9	TO CHANGE CODES ONLY
* *	TO EXIT PROGRAMMING MODE WITHOUT SAVING CHANGES
* #	TO EXIT PROGRAMMING MODE AND SAVE CHANGES
*	TO RE-START PROGRAMMING FROM BEGINNING
1 2 3 4	DEFAULT MAINTANANCE ACCESS CODE

3.4 WIRING AND PLACEMENT.

3.4.1 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.

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™ DUO EE utilizing the speaker within the Model 2172 SPEAKER/MIC instead of the TERMINATOR DUO EE's internal siren driver. Connect an External Siren's output here.

Eagle recommends the Eagle Model 1401 Siren Driver if not using either the TERMINATOR™ DUO EE 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 (Option 5 = 1)
MIC1 - 3	Microphone inputs; Zones 1-3, respectively
SPKR	Speaker output - maintain 8 ohms or more
EXT SIREN	External siren input - (Option 5 = 2)

3.4.2 AUX BOARD CONNECTOR (P5) - OPTIONS WIRING CONNECTIONS.

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

3.4.3 RELAY CONNECTOR (P3) - RELAY WIRING CONNECTIONS.

The RELAY provided on the FALSE ALARM TERMINATOR™ DUO EE 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.

3.5 ADJUSTMENTS/INSTALLATION.

3.5.1 SPEAKER VOLUME.

This adjusts the gain of the speaker; CW - increases gain; CCW - decreases gain.

3.5.2 VOX/MANUAL OPERATION.

The VOX/MANUAL jumper allows the Model 2222 to be set up for manual ONLY operation. The Model 2222 is shipped with the jumper in the VOX position. In this position the module can be utilized in both manual and VOX modes. If the jumper is installed in the MANUAL position, the 2 command will place the module in a LISTEN-IN ONLY mode (instead of the VOX mode).

3.6 SPEAKER/MIC INSTALLATION.

3.6.1 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.

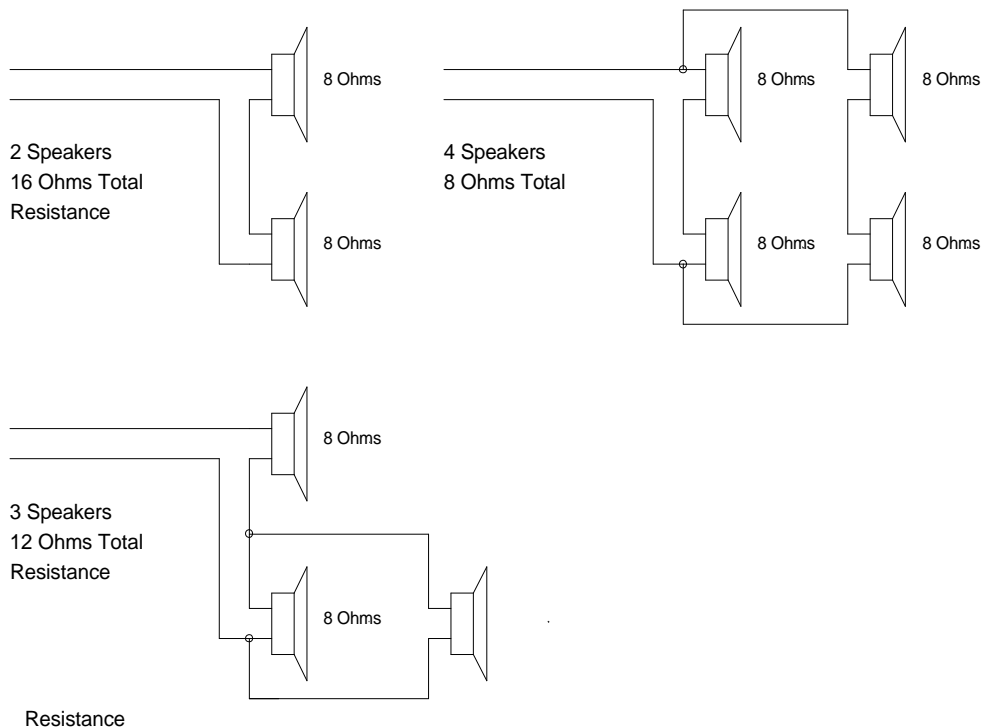
3.6.2 QUANTITY OF SPEAKER/MICS.

Up to four (4) Model 2172 microphones *per channel* may be used with the Eagle FALSE ALARM TERMINATOR™ DUO EE. 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. For expansion, use Eagle Model 1423.

3.7 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 3 is programmed with a **1**, the module will activate when a trigger is received on the hard trigger input 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.

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 FIVE MINUTE WINDOW DESCRIPTION.

The 2222 has a call back mode that 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 (Option 3 = **2**). 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 to activate TWO WAY is programmed in Option 8.

If the code is not sent in 15 seconds, the 2222 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 2222 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 2222 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 2222 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 and the premises has call waiting, it is recommended to disable central station detection (Option 4 = 2).

4.5 TRIP INPUT.

The 2222 has a direct wired trigger input. This input is used to activate the module from a control panel that 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.

4.6 AUTO-TRIP.

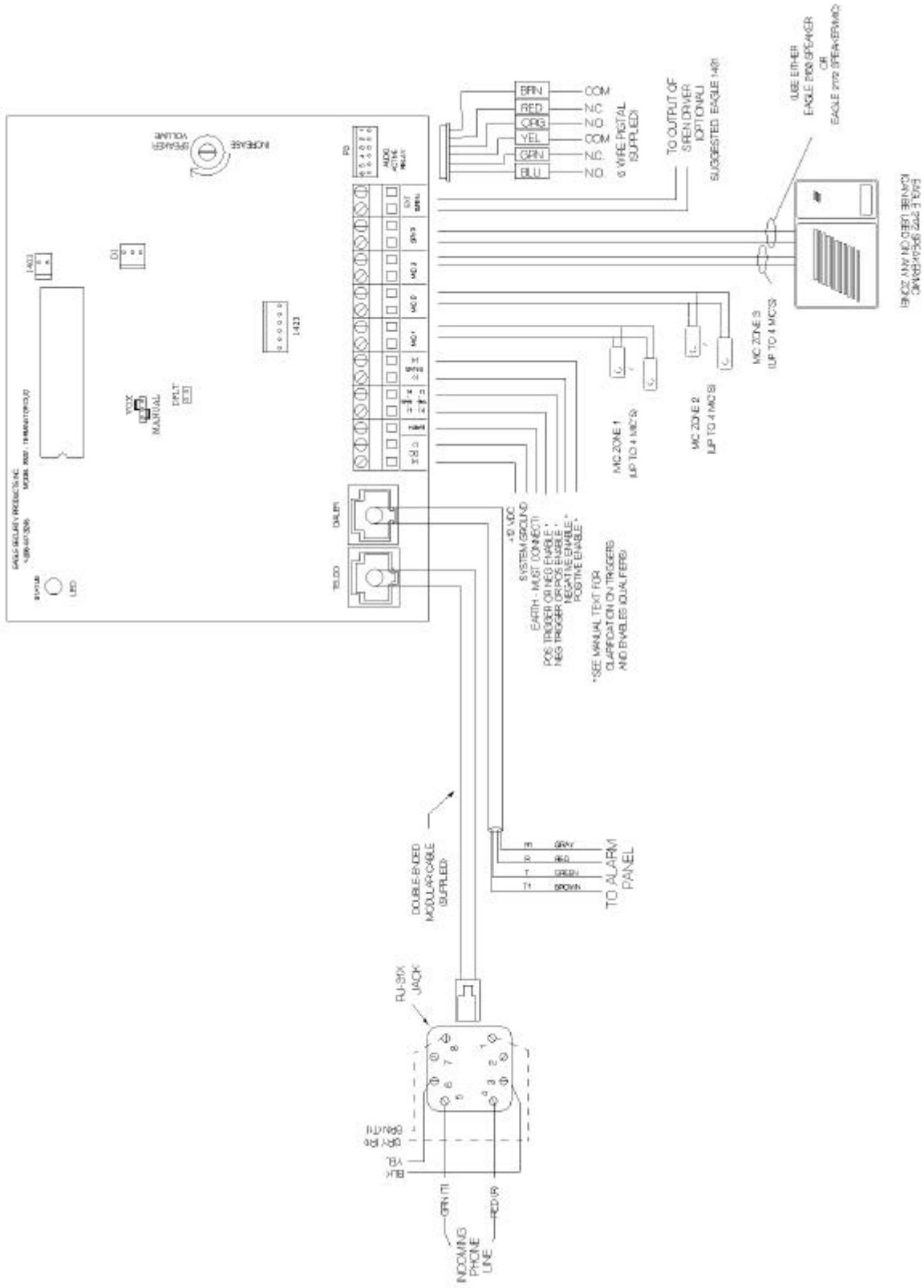
The 2222 Two Way Audio System utilizes an auto-trip feature. This feature is essential for control panels that do not have a two way activation output. The auto-trip activates the module by monitoring the phone line and detecting when the control panel/communicator finishes sending its data to the receiver. 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 programming option 1 (1).

4.7 ENABLE INPUTS.

The 2222 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 set of ENABLERS is the **ENAB** connectors, (also can be used as the 2222'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 option 1 is set for 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 option 1 is set for HARD TRIP, these act as a manual trigger which activate the module in either the immediate or call back mode.

DIAGRAM 2: WIRING SCHEMATIC.



5.0 CONTROLLING THE MODULE.

Most central stations have been trained in controlling the module. Central stations in need of assistance should call Eagle technical support. In the rare instance that the installer may need to know control commands, they are summarized here.

TABLE 5: TOUCH-TONE^Ø COMMAND SUMMARY.

TOUCH -TONE^Ø COMMAND	FUNCTION
1	TALK ONLY
2	VOX MODE or LISTEN-IN ONLY (see 3.5.2)
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

TABLE 6: MICROPHONE TOUCH-TONE^Ø COMMAND SUMMARY.

TOUCH -TONE^Ø 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)

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™ DUO EE 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™ DUO EE module is active. The Model 1403 provides relay outputs that 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 MODEL 1423 SPEAKER & MICROPHONE EXPANSION.

Eagle's Model 1423 Speaker & Microphone Expansion Module can connected to the TERMINATOR™ DUO EE Module via the **1423 (P6)** connector. The Model 1423 adds an additional 4 speaker connections and 2 microphone connections. For switching purposes, ALL Model 1423 connections are CONNECTED TO ZONE 3.

7.0 NOTES & RETURNS.

TECHNICAL SUPPORT HOTLINE: 800.447.E₃A₂G₄L₅E

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.

SECTION 1 (TO BE COMPLETED BY DEALER) DATE/...../.....

RMA NUMBER
 DEALER NAME
 ADDRESS
 CITY/STATE ZIP

SHIP TO

PHONE No. (.....)
 FAX No. (.....)
 CONTACT

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			

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EEPROM PROGRAMMING WORKSHEET

FOR TERMINATOR™ DUO EE

Option Number	Your Data	Default Data	Option Description	Default in italics & underlined
.....12	HARD WIRE OR	<u>AUTO TRIP</u>
.....22	ENABLES REQUIRED OR	<u>NOT REQUIRED</u>
.....31	<u>LINK MODE</u> OR CALL BACK MODE	
.....41	<u>C.S. DETECTION ENABLED</u> OR DISABLED	
.....51	<u>INTERNAL</u> OR EXTERNAL SIREN DRIVER	
.....62	<u>SUB. ALARMS</u> WILL NOT OR	<u>WILL SHUT DOWN</u>
.....72	SPEAKERPHONE OR	<u>NO SPEAKERPHONE</u>
.....82	* , * <u>55</u> * OR CUSTOM CALL BACK	
.....90	# OF RINGS FOR BYPASS or	<u>DISABLE</u>
.....101	# OF RINGS FOR CALL BACK	
.....111 2 3 4	MAINTENANCE CODE
.....125 6 7 8	USER ACCESS CODE

Note: See preceding pages for full description of options and defaults.

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.
77 Dingens Street Suite #B
Buffalo, NY 14206
SALES: 800.447.E₃A₂G₄L₅E or 716.827.6500
FAX: 716.827.6505

**TECHNICAL SUPPORT HOTLINE:
800.447.E₃A₂G₄L₅E**

or at your local installation company.

EAGLE SECURITY PRODUCTS FALSE ALARM TERMINATOR™ DUO EE (Model 2222EE)
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.

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