



**INSTALLATION
INSTRUCTIONS**

Manual Type 6.2.0.7-RF
TES2 with Essex
“S-12 Stand - Alone” Keypad

For Models

400-S12-TES2	401-S12-TES2
403-S12-TES2	404-S12-TES2
410-S12-TES2	411-S12-TES2

Specifications

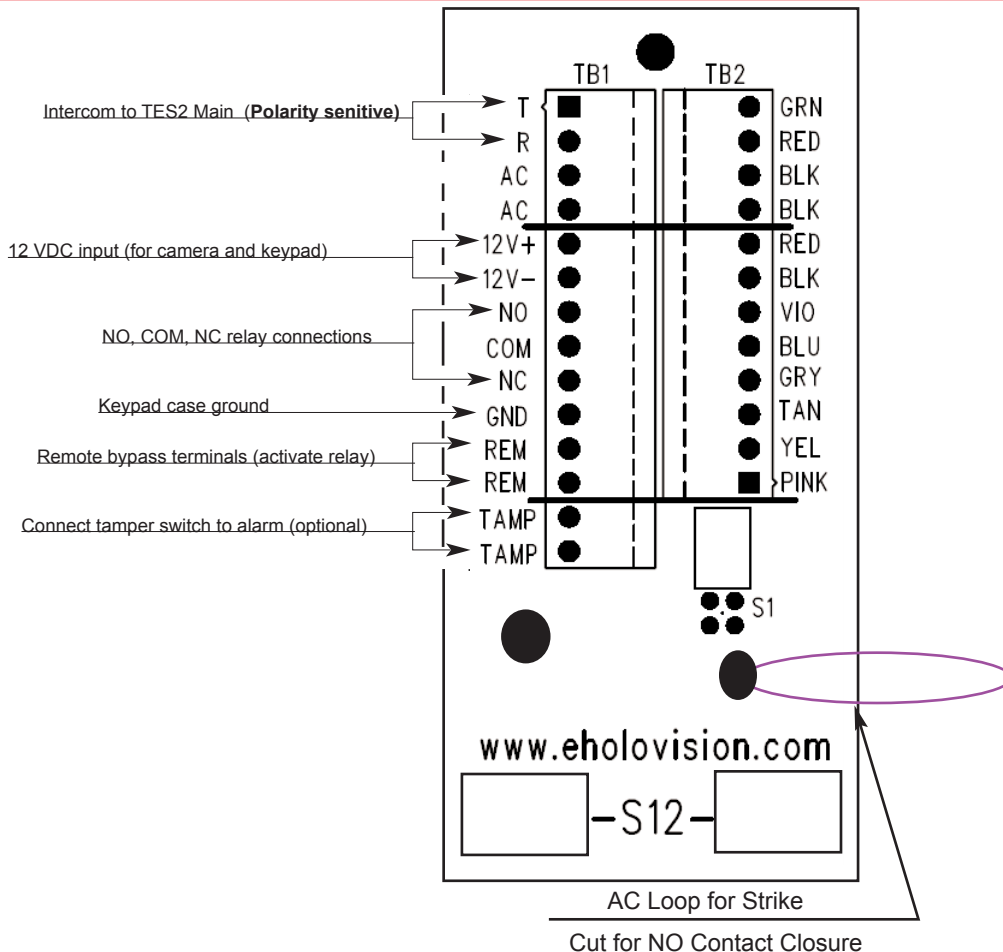
Communication

TES2 telephone entry system provide s a communication between the front door and any phone in the house. When the button is pressed the phones in the house will ring with a distinctive ring.

The home owner can then speak to the visitor by answering any of the ringing phones in the House. TES2 is a 2 door system (front door, back door).

Access Control

Essex “stand-alone” 12 button keypad
 1 relay plus 2 grounding outputs
 (external relays required)
 500 users
 12 VDC power supply included



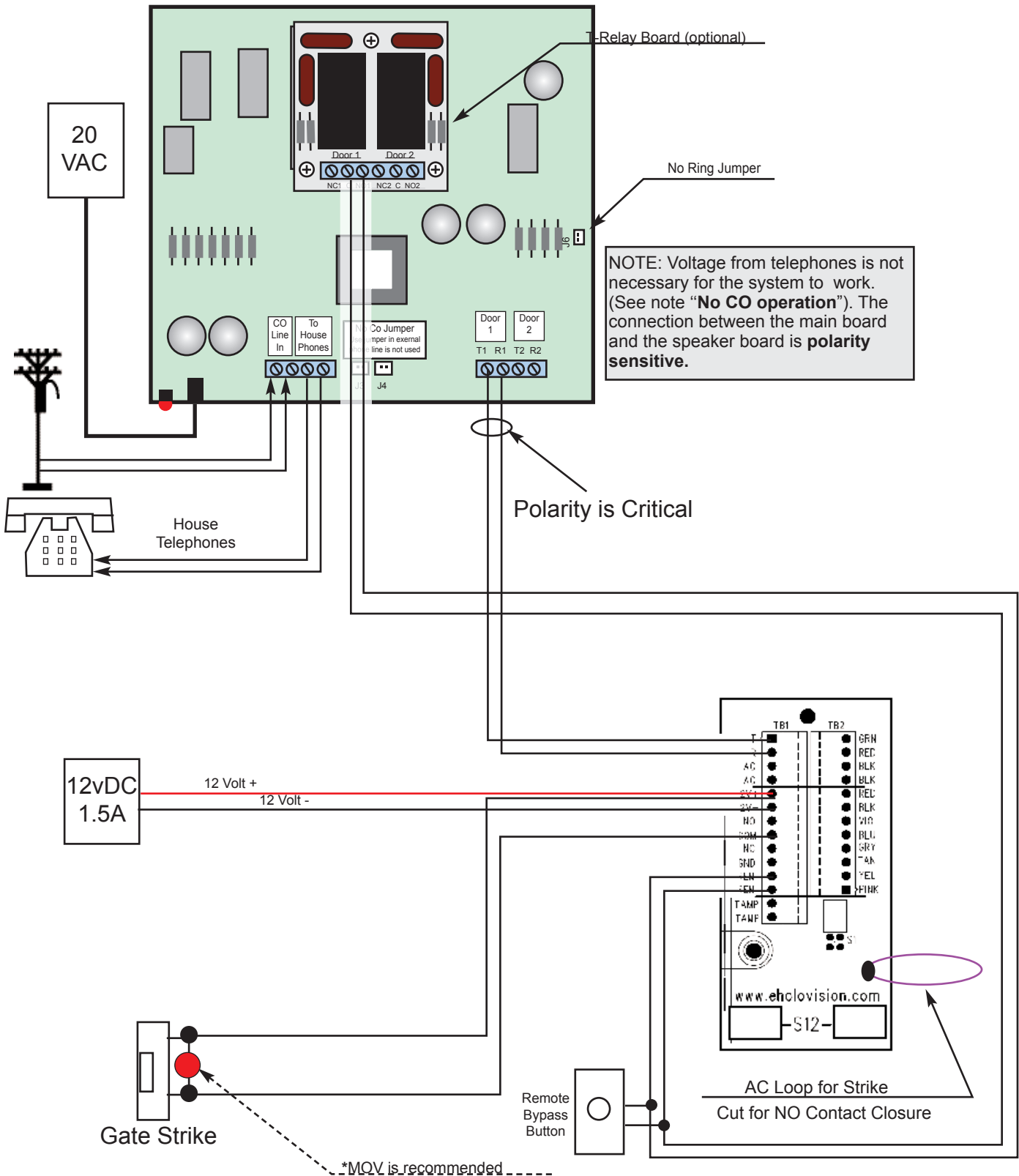
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 Santa Ana, Ca 92707
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HOLOVISION

TES2 and S12 Keypad Wiring

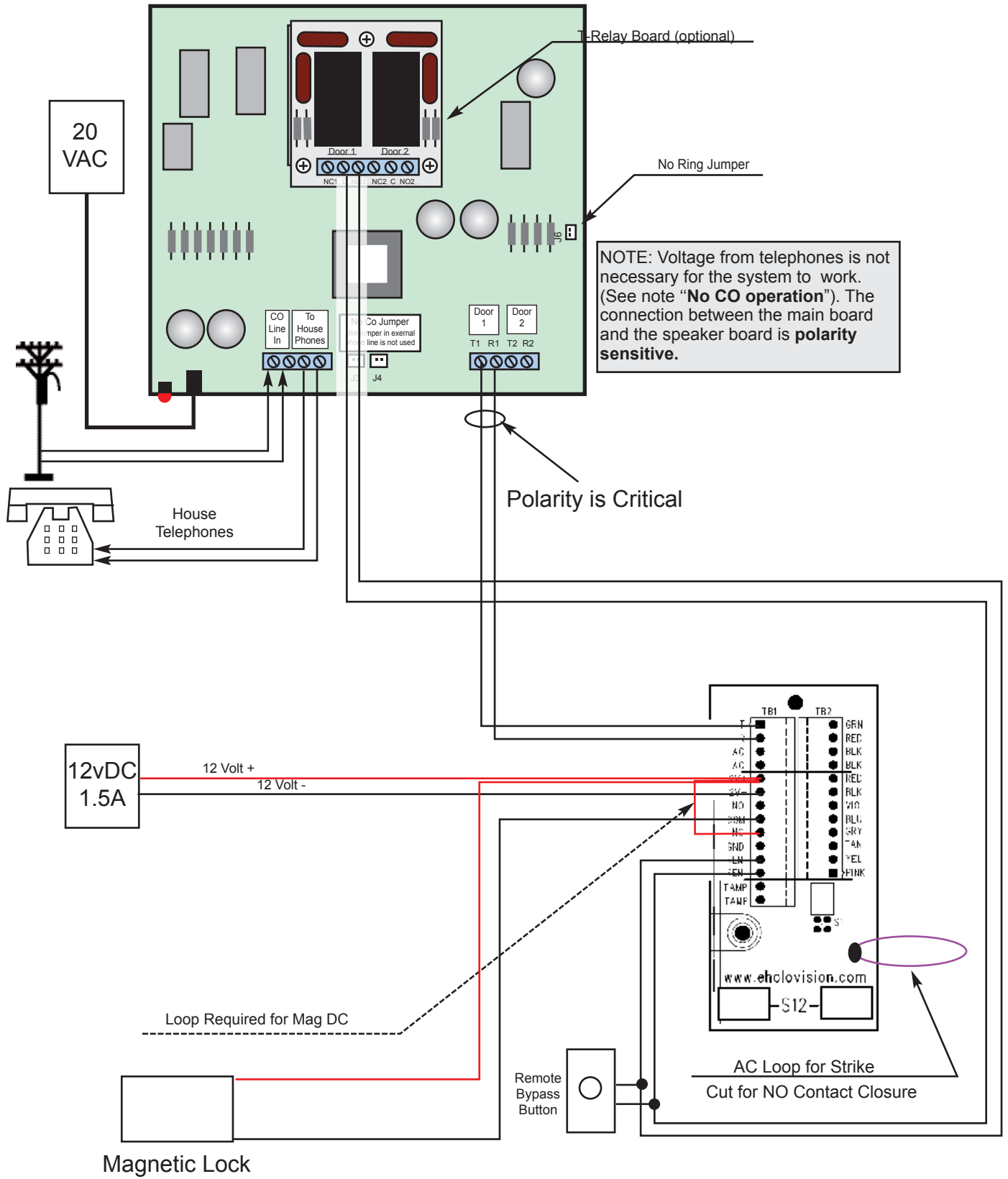
DC Out for Strike



*NOTE: MOV (metal oxide varistor) is the small red component which is included. Its purpose is to absorb "inductive kick back" which can be created when power is removed from the strike. Loop from DC Positive to contact common required for DC voltage to strike.

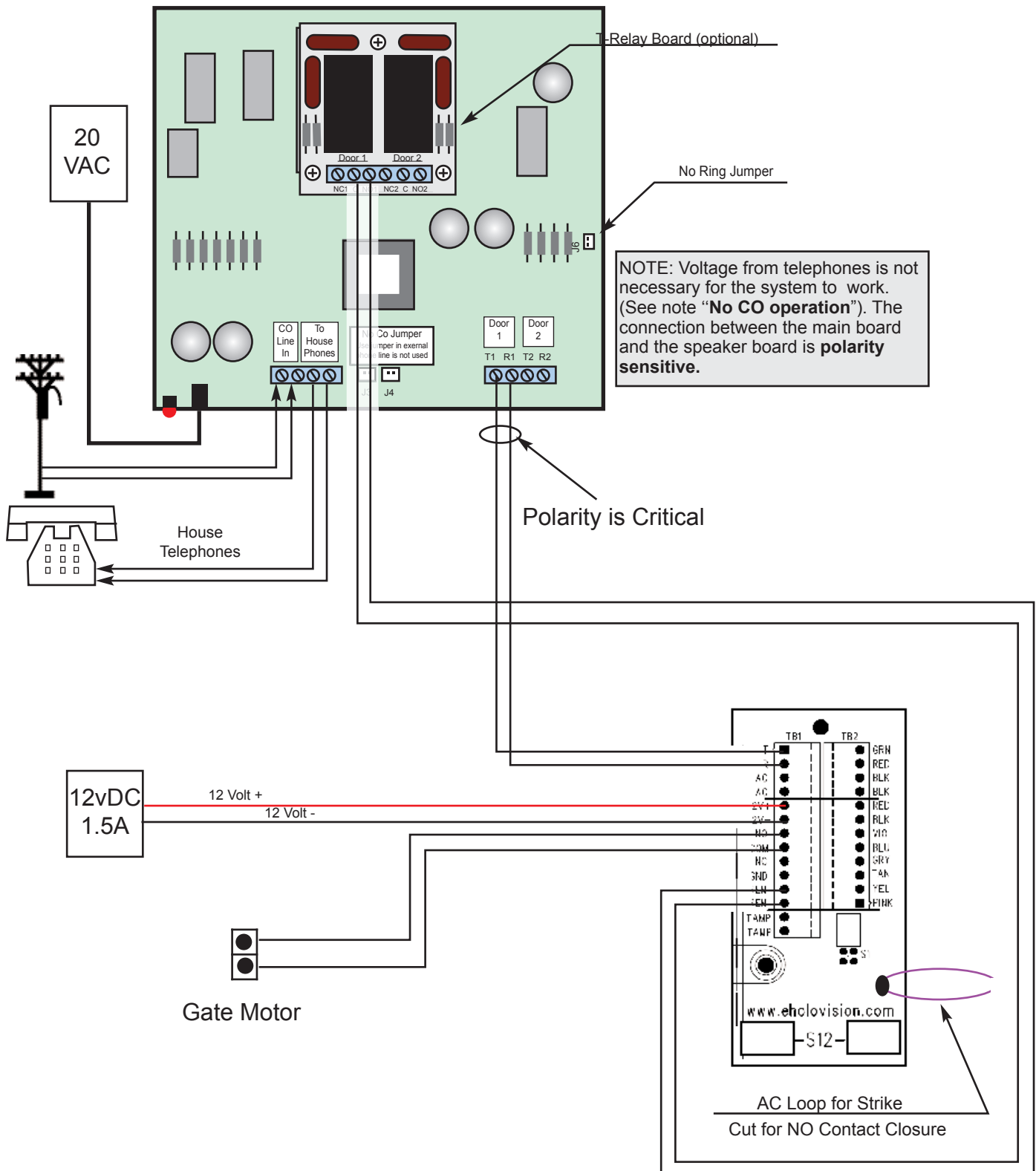
TES2 and S12 Keypad Wiring

DC Out for Mag Lock



TES2 & S12 Keypad Wiring

N/O Relay Out for Gate



Programming the Essex Keypad

Set Keypad Illumination to **ON ALL OF THE TIME**

STEP	ACTION	BEEP	Red LED	Green LED
1	Remove power			
2	Jumper the "CONFIG" pins on the rear of the keypad . V = 12			
3	Apply 12 VDC power to red and black wires	Quadruple Beep	Flash	Solid
4	Enter 9 9 followed by #	Double Beep	Flash	Solid
5	Enter 2 1 4 followed by #	Triple Beep	Flash	Solid
6	Remove power			
7	Remove "CONFIG" jumper			
8	Reapply power			

Set Master Code

STEP	ACTION	BEEP	Red LED	Green LED
1	The default Master Code is "123" . This can be changed to a unique code 3 - 8 digits long			
2	Enter * 3 1 2 3 #	Double Beep	Fast Flash	Solid
3	Enter 1 #	Double Beep	Fast Flash	Slow Flash
4	Enter new master code, followed by #	Triple Beep	Fast Flash	Solid
5	Enter * *	Double Beep		
6	EXAMPLE: old code is 123, new code is 456 * 3 1 2 3 # 1 # 4 5 6 # * *			

Note: If the User ID, or User Code/PIN has already been assigned, you will hear one long beep when # is entered. In this case, choose a different User ID / PIN, or see the instructions for changing or deleting codes.

DEFAULT USER CODE & MASTER CODE IS "123#"

Programming the Essex Keypad

Set User Codes

STEP	ACTION	BEEP	Red LED	Green LED
1	The Master Code is necessary to do this step. Master Code "123" is used as an example.			
2	Enter * 1 1 2 3 #	Double Beep	Slow Flash	Solid
3	Enter 1 # N	Double Beep	Slow Flash	Slow Flash
4	Enter 1st User ID (1-500), followed by # N	Double Beep	Slow Flash	Fast Flash
5	Enter 1st User Code/PIN, followed by # N	Double Beep	Slow Flash	Fast Flash
6	Enter # to complete User 1 programming N	Triple Beep	Slow Flash	Slow Flash
7	Enter 2nd User ID (1-500), followed by #	Double Beep	Slow Flash	Fast Flash
8	Enter 2nd User Code/PIN, followed by #	Double Beep	Slow Flash	Fast Flash
9	Enter # to complete User 2 programming	Triple Beep	Slow Flash	Slow Flash
10	Enter * * * *	Double Beep X 2		
Example for entering user code 1 and 2- * 1 1 2 3 # 1 # 1 # 4 5 6 # # 2 # 7 8 9 # # * * * *				

Changing User Codes - using User ID

STEP	ACTION	BEEP	Red LED	Green LED
1	The Master Code is necessary to do this step. Master Code "123" is used as an example.			
2	Enter * 1 1 2 3 #	Double Beep	Slow Flash	Solid
3	Enter 2 #	Double Beep	Slow Flash	Slow Flash
4	Enter User ID to be changed (1-500), followed by #	Double Beep	Slow Flash	Fast Flash
5	Enter new User Code/PIN, followed by # N	Double Beep	Slow Flash	Fast Flash
6	Enter # to complete programming	Triple Beep	Slow Flash	Slow Flash
7	Enter * * * *	Double Beep X 2		
Example for changing user code 1- * 1 1 2 3 # 2 # 1 # 7 8 9 # # * * * *				

N **Note:** If the User ID, or User Code/PIN has not been assigned, you will hear one long beep when # is entered.

Programming the Essex Keypad

Deleting User Codes - using User Code/PIN

STEP	ACTION	BEEP	Red LED	Green LED
1	The Master Code is necessary to do this step. In this example, the Master Code is 123			
2	Enter * 1 1 2 3 #	Double Beep	Slow Flash	Solid
3	Enter 5 # N	Double Beep	Slow Flash	Slow Flash
4	Enter User Code/PIN to be changed, followed by #	Double Beep	Slow Flash	Fast Flash
5	Enter new User Code/PIN, followed by #	Double Beep	Slow Flash	Fast Flash
6	Enter # to complete programming	Triple Beep	Slow Flash	Slow Flash
7	Enter * * * *	Double Beep X 2		

Example for deleting user code # 456- * 1 1 2 3 # 5 # 4 5 6 # 7 8 9 # # * * * *

Deleting User Codes - using User ID

STEP	ACTION	BEEP	Red LED	Green LED
1	The Master Code is necessary to do this step. In this example, the Master Code is 123			
2	Enter * 1 1 2 3 #	Double Beep	Slow Flash	Solid
3	Enter 4 #	Double Beep	Slow Flash	Slow Flash
4	Enter 1st User ID to be deleted (1-500), followed by # N	Triple Beep	Slow Flash	Fast Flash
5	Enter 2nd User ID to be deleted (1-500), followed by # N	Triple Beep	Slow Flash	Fast Flash
6	Enter * * * *	Double Beep X 2		

Example for deleting user ID 1 and 2- * 1 1 2 3 # 4 # 1 # 2 # * * * *

N **Note:** If the User ID, or User Code/PIN has not been assigned, you will hear one long beep when # is entered.

Programming the Essex Keypad

Reset Keypad to Factory Defaults--- This is not normally necessary, but can be done as follows

STEP	ACTION	BEEP	Red LED	Green LED
1	Remove power			
2	Jumper the "CONFIG" pins on the rear of the keypad			
3	Apply 12 VDC power to red and black wires ONLY	Quadruple Beep	Flash	Solid
5	Enter 0 0 9 9 #	Double Beep	Flash	3 Sec Flash
6	WAIT about 4 seconds	Quadruple Beep	Flash	Solid
7	Enter 9 9 #	Triple Beep	Flash	Solid
8	Remove power			
9	Remove "CONFIG" jumper			
10	Reapply power			

Setting Main Relay Opening Time

STEP	ACTION	BEEP	Red LED	Green LED
1	The default Master Code is "123". This can be changed to a unique code 3 - 8 digits long.			
2	Enter *3 1 2 3 #	Double Beep	Slow Flash	Solid
3	Enter 2 #	Double Beep	Slow Flash	Slow Flash
4	Enter the desired activation time in Seconds followed by #	Triple Beep	Slow Flash	Solid
5	Enter ** to exit			
6	Example: 2 # 10 # ** (10 second activation time)			

Note: If the User ID, or User Code/PIN has not been assigned, you will hear one long beep when # is entered.

TES2 Telephone Entry System

Basic Set-Up

Step	Action
1	Mount the main board near the telephone distribution center of the house and attach the telephone line from the service provider to the connection labeled " LINE TO DEMARC ".
2	Connect the house phone distribution system to the wire terminals labeled " HOUSE PHONE ".
3	Punch down " ONE " and " TWO " door stations. If only one door station is being used, it should be connected on the " ONE " punch down location. Note: The connection is polarity sensitive.

Set "No Ring" Option (TES2 is shipped with this option **DISABLED**)

Step	Action
1	The " NO RING " option is to be used if external door chimes are being used in the house, and the phones should not ring when the door bell button is pushed. When the " NO RING " option is selected, the phones will not ring. When the homeowner hears the external door chime (not supplied by Holovision), and then picks up any telephone, they will be automatically connected to the door phone. No additional buttons need to be pushed. The door call will be available for 10 seconds after the button is pushed. After 10 seconds, follow the instructions shown for " Basic Operation of TES2 ".
2	For " NO RING " option, install jumper pin (J6) on far right side of board. TES2 is shipped with this option disabled.
3	In order to connect door chimes and TES2, a double pole button must be used . The double pole button (Part number 9202) is available from holovision.

Set "No CO Line" Option (TES2 is shipped with this option **DISABLED**)

Step	Action
1	For " NO CO " option is to be used if there is no CO (Central Office) line to the home. The No CO option would be used if the homeowners used cell phone only (no house phone line). In this case, several phones would be required throughout the house. These phones would be used only for answering door phone calls.
2	For " NO CO " option, install 2 jumper pins if (J3, J4) at th bottom of the board. TES2 is shipped with this option disabled.

Connect Gate Strike Relay

Step	Action
1	The relay board is equipped with screw terminals. This has connections for each relay in normally open (" NO ") and normally closed (" NC ") options.
2	Attach to either NO or NC connectors. If a second gate is being used, also connect it to NO or NC connectors.

TES2 Telephone Entry System

Door Ring Patterns

Door 1	3 groups of 3 rings (ring ring ring), (ring ring ring), (ring ring ring).
Door 2	3 groups of 2 rings (ring ring), (ring ring), (ring ring).

Operation of TES2

ANSWER THE CALL

When you hear the distinctive ring pattern selected above:

within 10 seconds - simply pick up any telephone to be connected to the door speaker which initiated the call.

after 10 seconds - pick up any telephone, flash, and you will be connected to door 1. To be connected to door 2, pick up telephone, flash, and hit "2"

CALL WAITING

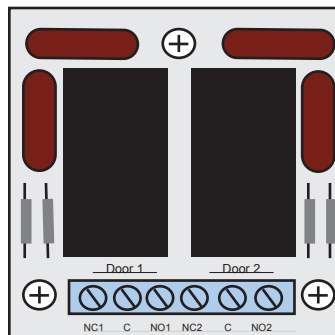
TES2 has built-in call waiting. If the house phone is in use when the door button is pushed, the caller will receive a call waiting tone. To answer the "door call" simply flash to answer the "door call" and flash again to return to the original call.

SWITCH TO OTHER DOOR

Users can switch to the other door station at anytime by hitting "1" or "2" while connected to door 1 or door 2.

Operation of T-RLY

If the TES2 Relay board is installed, the door latch/gate relay can be activated by pushing "6". The relay will be activated for 5 seconds. To increase the activation time, hold down the "6" key for the desired amount of time.



Optional T-Rly Board (9408-3)