

for Combination Burglar/Fire Controls

GENERAL INFORMATION:

The No. 5240 Self-Contained Digital Remote Station has a 12 button keypad. It provides four digit coded ON/OFF (Arm/Disarm) control for any combination burglar/fire control in the No. 330R through 342R series as well as Nos. 221, 229, 330, 331 and 332 Controls. It connects directly to the control. No separate adapter is needed.

Panic alarms may be tripped from the keypad, as well, by momentarily pushing its buttons marked # and * simultaneously.

The No. 5240 is intended for indoor use, within the protected premises. Up to five may be connected directly to the control, coded identically or differently.

Status of the control's burglar alarm circuitry ("not ready for arming", "ready for arming" or "armed") is indicated by two LED's (RED and GREEN) on the face of the unit.

A warning buzzer, included in each unit, is used in connection with controls provided with entry/exit delay, zones.

Circuit safeguards erase all prior information entered via the keypad to prevent arming or disarming if more than 3 seconds are taken to enter the code.

Other remote stations (e.g.: Nos. 214, 218R, 246, 246R, 5246) and, where required, the No. 247 Adapter, may be simultaneously, but independently, connected to the control. As many "other" remote stations may be used as would otherwise be allowable without the No. 5240('s).

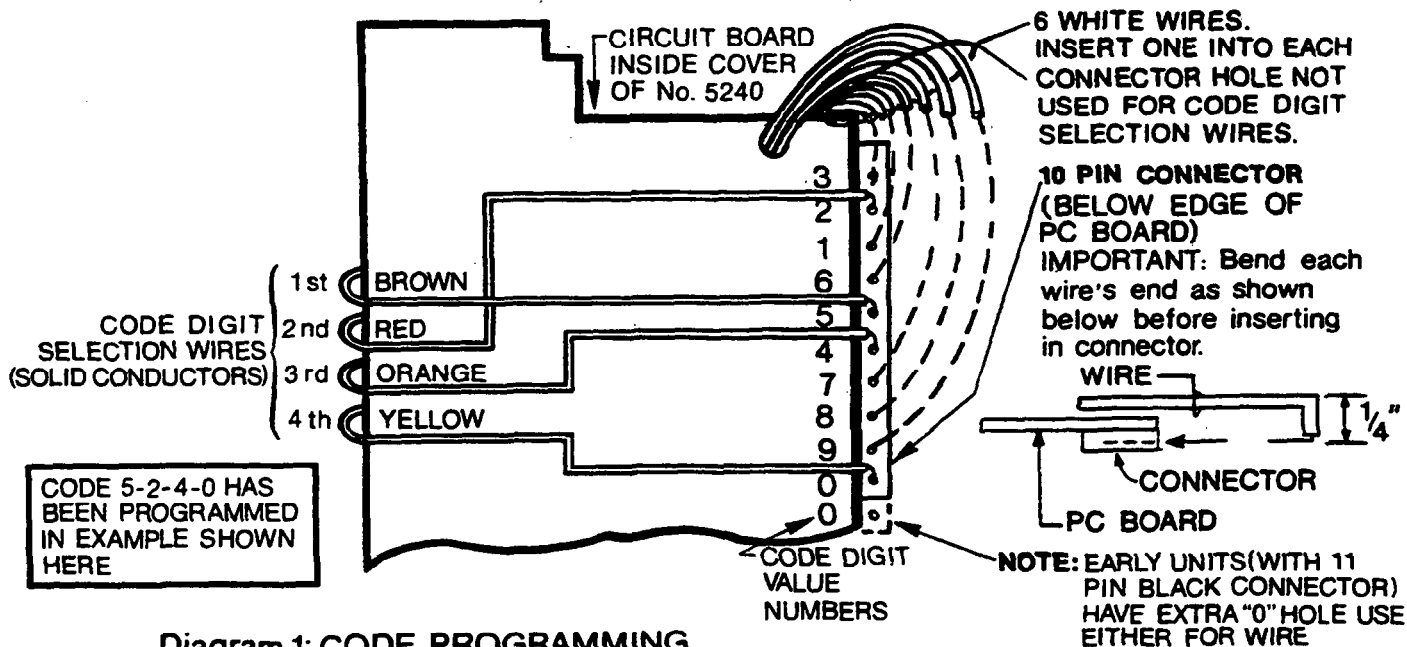


Diagram 1: CODE PROGRAMMING

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INSTALLATION AND WIRING:

1. Select a four digit arm/disarm code for each of the No. 5240 Remote Stations (up to 5 per control) to be used. The code must contain 4 different digits (e.g.: 2-6-3-7). Digits may not be used twice.

Stations on multiple unit installations may be coded differently from each other, if desired.

2. Program each No. 5240 for its assigned code, as follows (Note: in the following example the No. 5240 is being programmed for code 5-2-4-0):
 - a. Remove the unit's cover and position it so that the circuit board within the cover appears as shown in Diagram 1.
 - b. Observe the "Code Digit Selection Wires", the four 4 inch solid conductor wires at the left side of the circuit board. The colors are BROWN, RED, ORANGE and YELLOW.
 - c. Observe the 10 pin connector below the right edge of the PC board. Its holes are associated with digit values of 0 through 9 as indicated in Diagram 1. Note that the holes are not numbered sequentially.

Note: Early production units have an 11 pin (black) connector with an extra "0" hole at its lower end.

- d. Simply insert the BROWN wire in the connector hole which corresponds to the numerical value selected for the first digit ("5" in Diagram 1's programmed example).

Important: To insure good contact, bend the end of each wire as shown in Diagram 1 before inserting it in the connector.

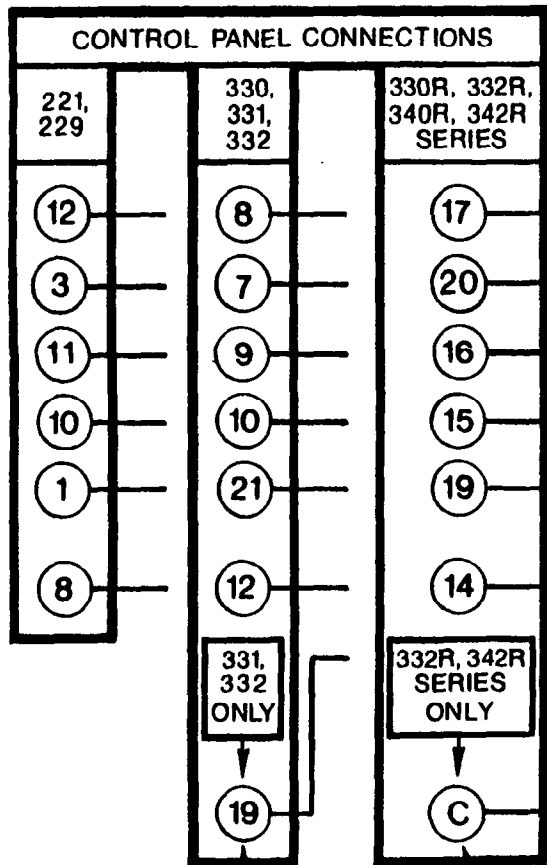
- e. Similarly insert the RED, ORANGE and YELLOW wires in the holes for the 2nd, 3rd and 4th digits respectively ("2", "4" and "0" in Diagram 1's programmed example). (With an early unit having two "0" holes, either may be used.)
 - f. Insert one of the six WHITE wires into each remaining connector hole and dress all wires neatly down against the PC board.
 - g. Replace the unit's cover until ready to mount it in its selected location.
3. Mount the No. 5240('s) in the desired location(s) and run wiring between it (them) and the control as shown in Diagram 2. Total wiring distance should not exceed 400 ft. Do not yet connect the wiring to the control.

Notes: Up to 5 No. 5240's may be connected in parallel to the control, either on the same or separate runs.

The No. 5240's are intended for surface mounting, WITHIN the protected premises. Concealed wiring may enter via a large square hole in the base of the unit. Breakaway knockouts are provided in the base for exposed wiring.

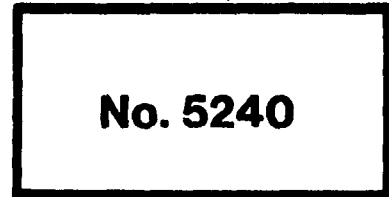
Field wiring between the control and the No. 5240's built-in entry/exit warning buzzer (unit's GREEN lead) will NOT be

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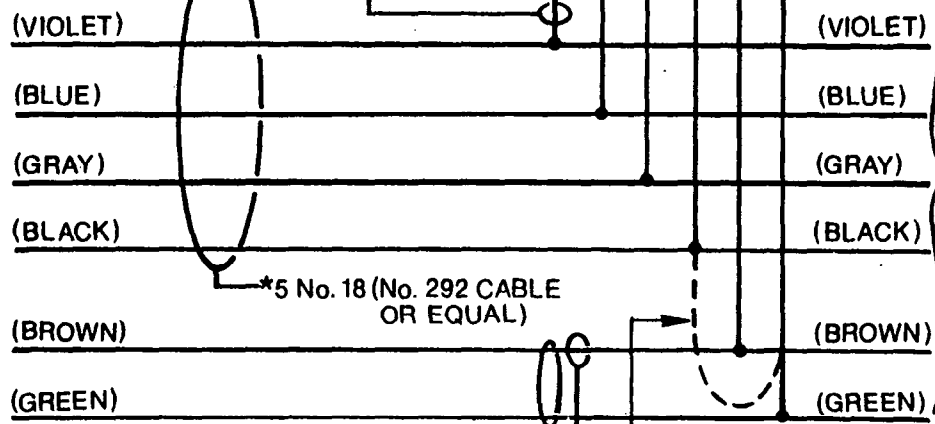
FOR ENTRY/EXIT WARNING BUZZER IN No. 5240(S)

IF PANIC ALARM NOT DESIRED DO NOT CONNECT VIOLET LEAD
FOR SILENT PANIC ALARM, SEE WIRING STEP 5.



No. 5240 LEAD COLORS (WHITE)

No. 5240 LEAD COLORS (WHITE)



TO ADD'L No. 5240'S IF REQ'D (MAXIMUM TOTAL OF 5 No. 5240'S MAY BE CONNECTED TO PANEL)

STATION BUZZER(S)	WIRING*
ALL OR SOME USED	RUN 2 No. 20 (No. 283) OR 2 No. 22 (No. 289)
NONE USED	RUN 1 No. 22 (No. 288) ONLY

IF A STATION'S BUZZER IS NOT USED, SPLICE THAT STATION'S GREEN LEAD TO ITS OWN BLACK LEAD

*MAXIMUM WIRING RUN: 400 FT.

Diagram 2: FIELD CONNECTIONS

required if a control WITHOUT entry/exit delay is used (e.g.: No. 330R, 340R series controls or No. 221, 229 or 330) or if no warning buzzer is desired for those controls with entry/exit delay. In these cases, splice each unit's GREEN lead to its own BLACK lead as indicated in Diagram 1.

If any individual buzzer is to be silenced while others are not (when controls with entry/exit delay are used), splice that particular station's GREEN lead to its own BLACK lead as described in the previous paragraph.

4. Disconnect the control's battery and AC power.
5. Connect the remote station wiring to the control as shown in Diagram 2.
 - a. For AUDIBLE PANIC ALARM, make connections as shown in Diagram 2.
 - b. If SILENT PANIC ALARM is desired from the No. 5240(s), connection may be made to a digital communicator. Connect the VIOLET lead of the No. 5240(s) to the positive (+) "triggering by voltage" (6V. DC) terminal of a digital communicator (non-delay, non-abort channel recommended) instead of to the control. In addition, connect a 56 ohm resistor (1/2 watt minimum) between the VIOLET lead and the BLACK lead of the No. 5240 (still connected to the control).

If the communicator is not powered from the same source as the control, also connect a jumper between the control terminal to which the BLACK lead is connected and the negative (-) "triggering by voltage" terminal of the communicator.

Note: If SILENT PANIC ALARM has been selected, no panic switches should be connected directly to the control as audible panic alarm would result upon their activation. Such switches may be connected directly to the communicator as described in the instructions accompanying the communicator.

- c. If the panic alarm feature of the No. 5240(s) is not desired do not connect the VIOLET lead(s). Tape the unused end(s).
6. Reconnect the control's battery and AC power.

TESTING AND OPERATION:

Each No. 5240 will indicate the system's status via its GREEN and RED LED's as follows:

<u>LED LIT</u>	<u>SYSTEM STATUS</u>
NEITHER	Disarmed, Protective Circuit(s) Open (Not Ready for Arming)
GREEN	Disarmed, Protective Circuits Closed (Ready for Arming)
RED	Armed (Ready for Alarm or Disarming)

1. Arm and disarm the system at each No. 5240 as follows and check the response of each station's LED indicators: 779

- a. Make sure all protective circuits are closed and the system is ready for arming. The station's GREEN LED should be lit.
- b. Arm the system by entering the station's programmed 4 digit code. The station's GREEN LED should go out and its RED LED should light.

IMPORTANT: During arming and disarming, if more than 3 seconds are taken to enter the entire code or if the code digits are not entered correctly, all prior entered information is erased and code entry must be started anew.

If a basic protection circuit (without entry/exit delay) is then disturbed, an alarm will sound immediately.

If an entry/exit delay circuit is disturbed, the No. 5240's buzzer will sound during the entry delay period.

- c. Disarm the system by entering the station's programmed 4 digit code.

The station's RED LED should go out and its GREEN LED should light.

Note: Each No. 5240's GREEN LED will go off and on as the protective circuits are opened and closed during the disarmed period.

2. Trigger a panic alarm at each No. 5240 as follows:

Note: This assumes that the station(s) VIOLET lead(s) has (have) not been left disconnected to eliminate this feature, as described previously.

Momentarily press the station's two buttons marked # and * simultaneously. The panic alarm will sound and continue until the control's reset switch is operated (or a SILENT PANIC ALARM will be sent, if this option has been selected). (Note: Contact the central monitoring station before testing a SILENT PANIC ALARM.)

SPECIFICATIONS:

Physical; Width: 2 7/8" (7.3 cm)
 Height: 4 5/8" (11.7 cm)
 Depth: 1" (2.5 cm)

Electrical: Powered with 6V. DC from Control Instrument
 (see GENERAL INFORMATION for controls with
 which the No. 5240 may be used).

Current Drain: LED ON : 12 ma
 LED's OFF: 0.1 ma

Up to 5 No. 5240's may be connected to one control unit.