

# OPERATING AND INSTALLATION INSTRUCTIONS



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## RP-1009L REMOTE KEYSWITCH STATION

(c) NAPCO 1985

WI345 10/85

The RP-1009L is a remote keyswitch station that provides visual LED and digital display and audible Mini-Sounder indication for MA-900-series systems. Space is provided for a UL-listed momentary keyswitch (not supplied) for arming and disarming purposes.

### CONTROLS & INDICATORS

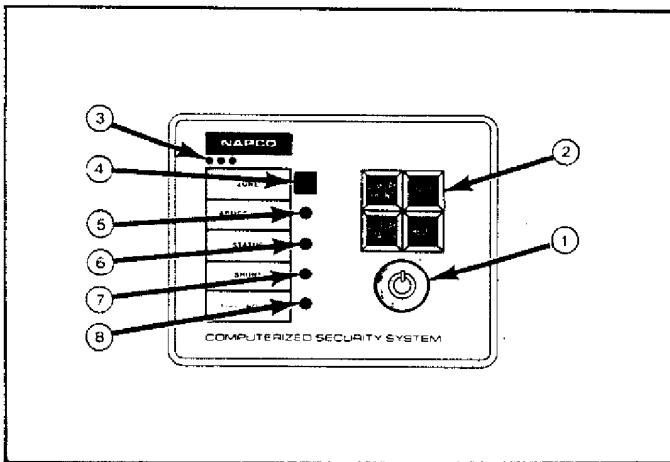


Fig. 1. Controls and Indicators.

① **Keyswitch** (Not Supplied) - Used to arm and disarm the system. Install a UL-listed single-pole, single-throw, spring-return (momentary) keyswitch and wire it to the two white leads with black tracers. To arm, push in and turn clockwise, then release; repeat to disarm.

② **Function Buttons** (Function button must be held down about for two seconds -- until a beep sounds -- to access function.)

**TEST:** Press to test bell/siren.

If the alarm does not sound or sounds weak, check the battery. Instruct the user to make this test weekly.

**DISPLAY SHUNT:** Press to display shunted zones on digital readout. Hold down until all shunted zones have been displayed.

**DISPLAY STATUS:** Press to display problem zones on digital readout. Hold down until all problem zones have been displayed.

**RESET:** Press to reset any Mini-Sounder alert, ac power-loss indication or Priority Zone trouble indication. Also resets digital readout.

③ **Mini-Sounder** - Provides audible alert as follows:

**Steady Tone:** A priority condition exists.

**Steady Tone when Entering:** Entry delay is in progress.

**Momentary Beep on Arming:** A zone is in trouble and has not been selectively or group shunted.

**Momentary Beep shortly after Arming:** Central station ringback verifies closing report.

**Pulsing Beep:** A Day Zone or Fire (Supervisory) Zone is in trouble.

**NOTE:** Press RESET to silence any Mini-Sounder indication.

④ ZONE Digital Readout

Flashing "1" through "9": Non-24-Hour Zone in alarm or Day Zone in trouble.

"0" with Mini-Sounder Tone: Unsuccessful attempt to arm with Priority Zone problem; display memory not reset after alarm trouble; ac power failure not bypassed.

⑤ ARMED/ALARM (Top Red) LED

Constant On: System armed.

Slow Flash: Problem on a non-24-Hour Zone. Check digital readout to identify zone(s).

⑥ STATUS (Green) LED

Constant On: System disarmed; all non-24-Hour Zones okay.

Slow Flash: Problem on a non-24-Hour Zone. Press and hold DISPLAY STATUS Button and check digital readout to identify zone(s).

Rapid Flash: Problem on a Day Zone. Press and hold DISPLAY STATUS Button and check digital readout to identify zone(s).

⑦ SHUNT (Yellow) LED

Constant On: One or more zones shunted. Press and hold DISPLAY SHUNT Button and check digital readout to identify zone(s).

⑤ ⑥ ⑦ Top 3 LEDs

Simultaneous Slow Flash: Ac power failure.

⑧ FIRE/TROUBLE (Bottom Red) LED

Constant On: Alarm on Fire (Supervisory) Zone.

Flashing: Trouble on Fire (Supervisory) Zone.

**MOUNTING**

The RP-1009L is mounted in either of two ways: (a) directly on the control-center

door or (b) flush mounted in a wall.

**Mounting on the Control-Center Door**

1. Use a screwdriver to remove the knockout in the control-center door.

NOTE: There is no knockout on the MA-900M.

2. Align the mounting holes in the RP-1009L with the respective slots in the door.

3. Secure in place with #6 screws and nuts.

**Flush Mounting in a Wall**

The RP-1009L may be flush mounted with or without an enclosure. Where local codes may require an enclosure, however, the use of an RPB-2 Junction Box is required.

**Flush Mounting using the RPB-2 Junction Box.** The RPB-2 provides a secure enclosed installation.

1. Using the mounting template furnished with the RPB-2 and a pencil, mark the wall for junction box mounting.

2. Carefully cut the hole for the junction box using a keyhole saw. Caution: a poorly-cut hole may show.

3. Remove wiring knockouts and insert the box into the hole. Tightening the two corner mounting screws will properly position the mounting ears behind the wall to provide a secure mounting.

4. Complete the wiring connections (see WIRING).

5. Flip up the front panel and position the keyswitch on the junction box. Mount the keyswitch with two #6-32 machine screws, then lower the front panel and peel off its protective coating.

Additional instructions are furnished with the RPB-2 Junction Box.

**Flush Mounting without an Enclosure.** Where

permitted, a satisfactory installation may be made without the requirement of an enclosure.

1. Using a pencil and the template shown in Fig. 3, mark the wall for the RP-1009L. Carefully remove the "cut-line" area using a keyhole saw. Caution: a poorly-cut hole may show.

2. Complete the wiring connections (refer to the wiring diagram in Fig. 2.)

3. Flip up the front panel and mount the keyswitch station to the wall with four #6 screws. After mounting, lower the front panel and peel off its protective coating.

**WIRING**

The wiring diagram is shown in Fig. 2. The UL-listed keyswitch (not supplied) is wired to the two white leads with black tracers.

**NOTE:** If using a soldering iron, avoid splashing solder onto the circuit board or components.

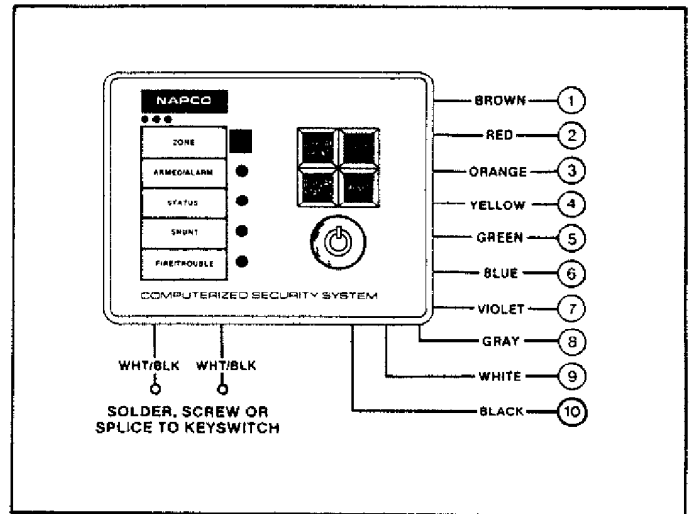


Fig. 2. Wiring Diagram.

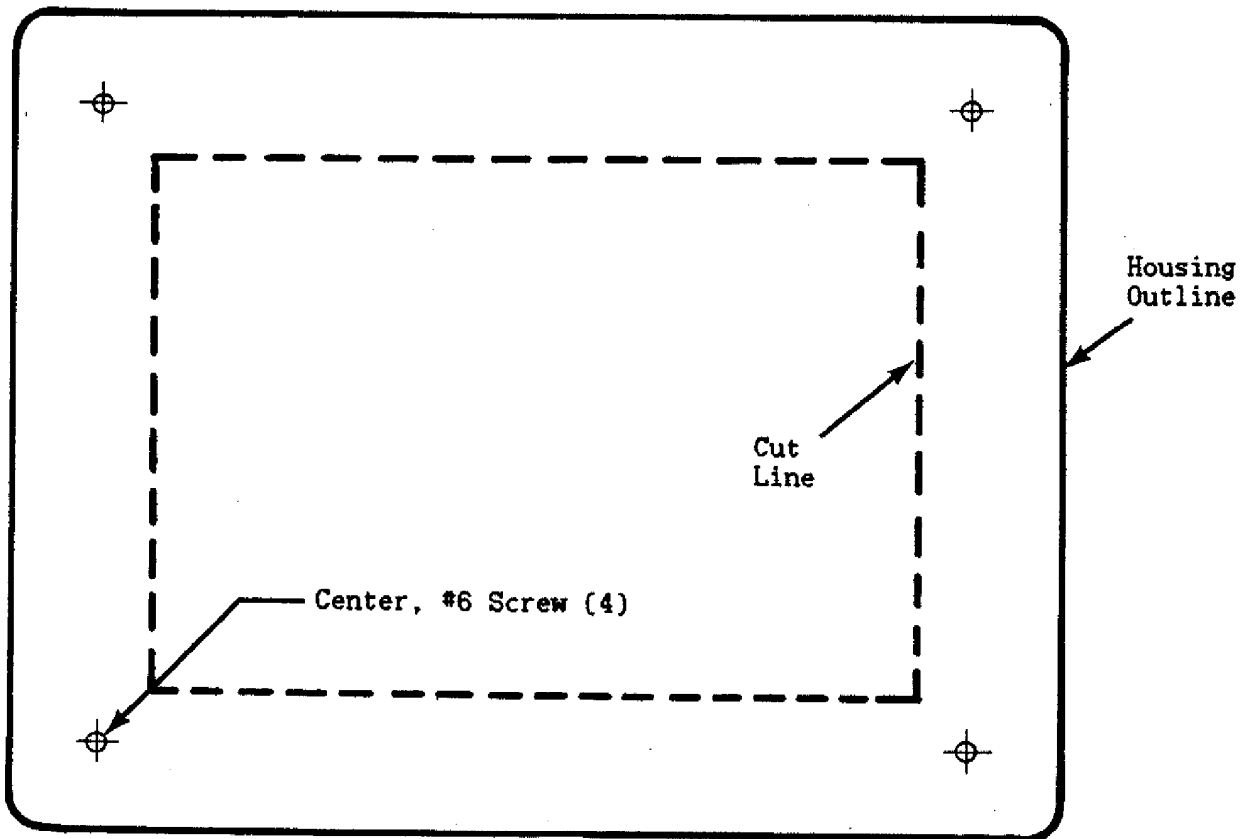


Fig. 3. Mounting Template