

# No. 244 TWO WIRE REMOTE STATION ADAPTER

## GENERAL INFORMATION:

The No. 244 Two Wire Remote Station Adapter permits remote control stations with single LED indicators (such as the Nos. 214, 246, 246R and 5246) to be connected to Nos. 1024 and 1026 Alarm Processing Centers with only two wires.

In addition, the No. 244 enables complete status of the system's burglar alarm circuits ("not ready for arming", "ready for arming", or "armed") to be indicated by each remote station's single LED.

If desired, locking type emergency (panic) switches (e.g.: Nos. 264, 266, 268 or 269) may be connected across the remote control station leads instead of to separate wiring from the panel.

## OPERATION:

Arming and disarming of the system may be carried out at any remote station. Each remote station's LED, will indicate the system's status as follows:

| <u>LED INDICATOR</u> | <u>SYSTEM STATUS</u>  |
|----------------------|---|
| Off                  | *Disarmed, Protective Circuit(s)<br>Open (See LED's on panel) |
| **Flashing           | Disarmed, Protective Circuits<br>Closed, (Ready for Arming)   |
| On Steadily          | Armed (Ready for Alarm or<br>Disarming)                       |

\*LED(s) on Alarm Processing Center will be lit for specific zone(s) not ready for arming.

\*\*Note: The No. 1024 Alarm Processing Center features automatic loop shunting and may be armed even though one or both of its basic protection zones (not the delay zone) has a fault, and the remote station LED is not flashing.

When the No. 244 is used, the following information supplements the Alarm Processing Center's individual installation instructions:

1. A keyswitch cannot be used for ON-OFF control of the panel when the No. 244 is used.
2. If it is desired to view the panel's ALARM MEMORY LED when opening (it will be lit if an alarm has taken place during the ON period) the remote station used at opening time should be located so that the ALARM MEMORY LED can be seen before the panel is turned OFF.
3. Take special care to observe the AC POWER LED daily to make sure that it is lit, to insure that the panel's standby battery remains charged.

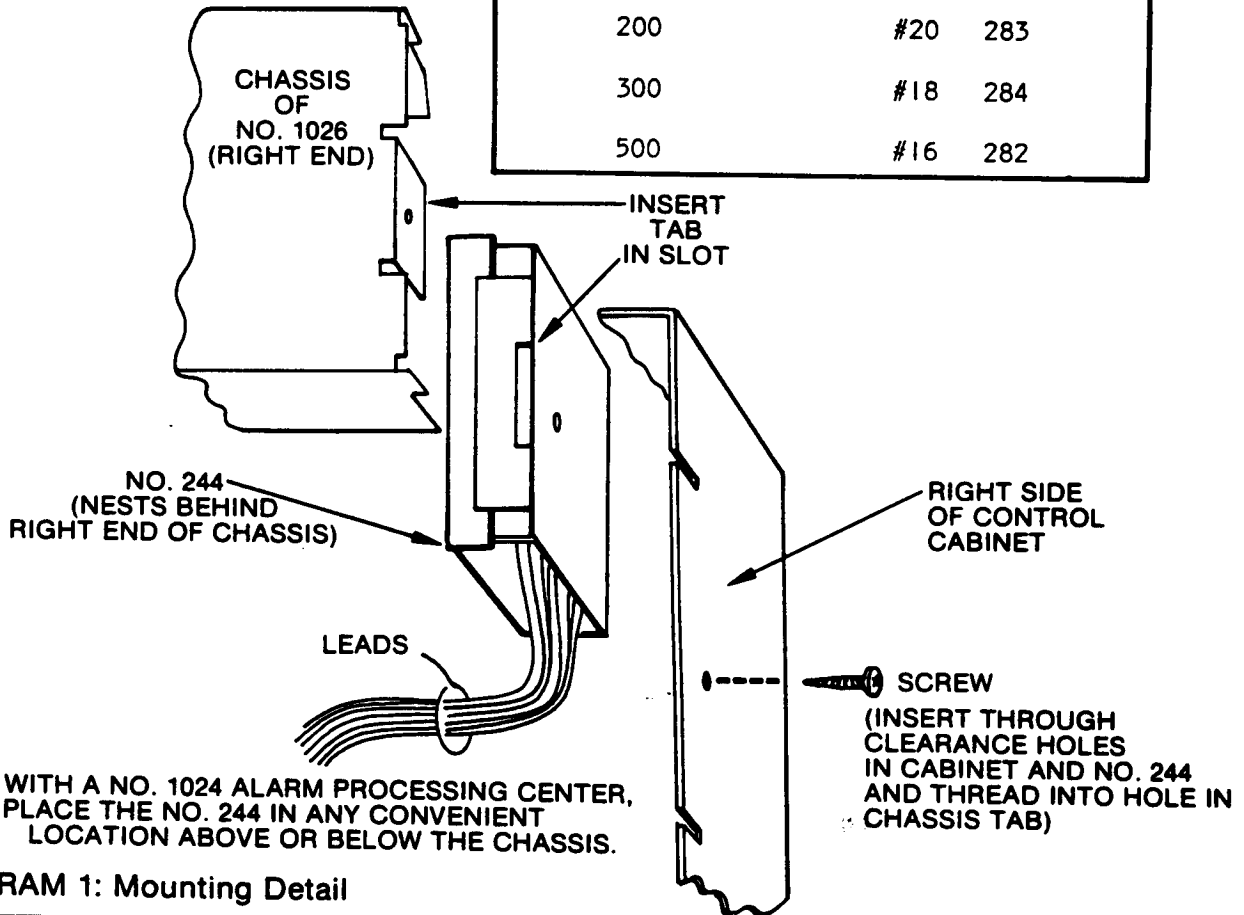
## INSTALLATION and WIRING: See Diagrams 1 and 2

Each No. 244 will permit up to 4 single LED remote stations to be connected to

the control instrument, in parallel, on one or more two wire runs originating at the control. **Caution:** For greatest security, these remote stations should all be located within the protected premises and used in conjunction with the panel's entry/exit delay zone, since the tamper switch circuit for these remote stations does not lock-in.

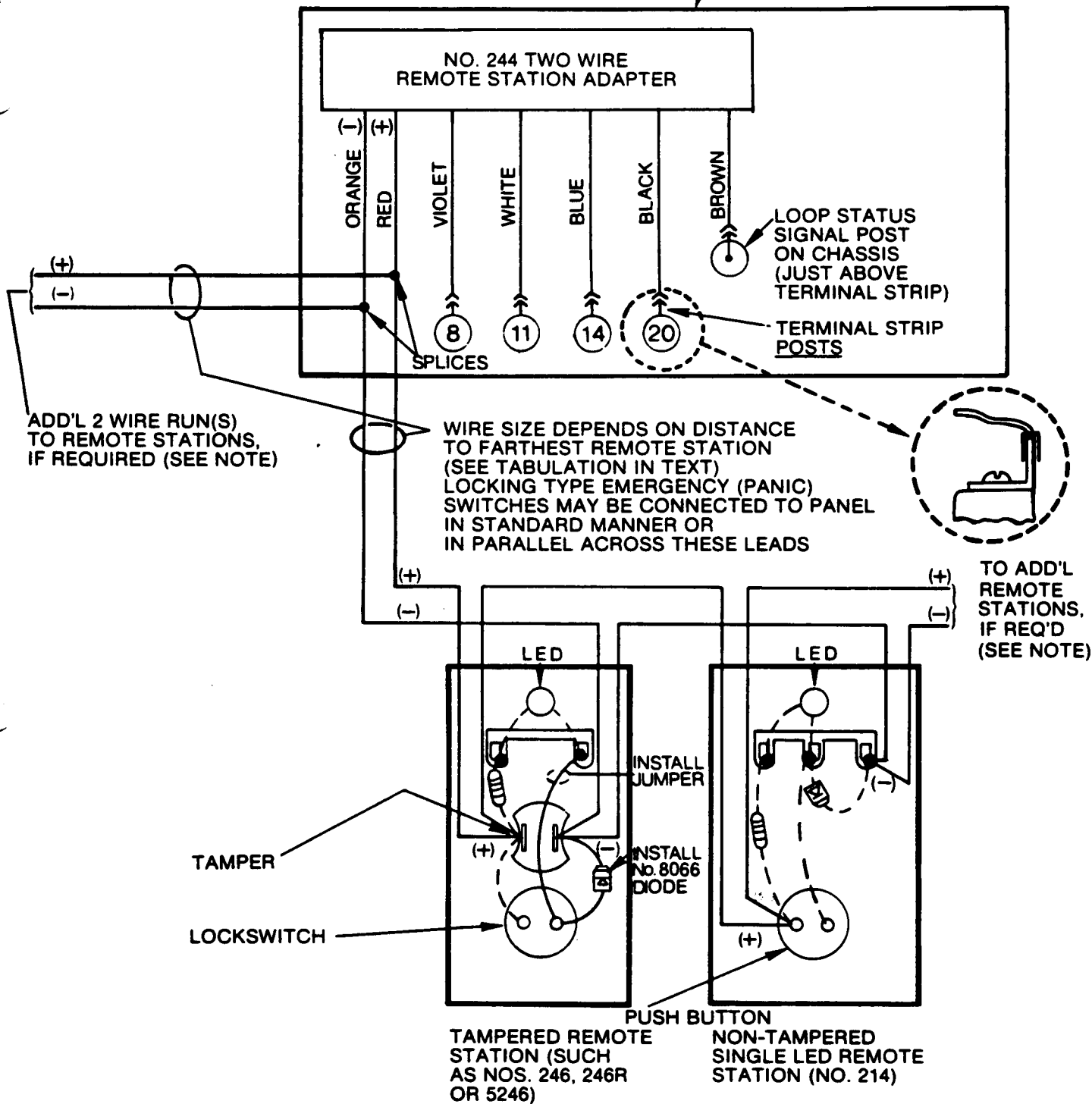
The wire size to be used for the entire length of a two wire run depends on the distance from the control to the farthest remote station on that particular run. Use the following tabulation to determine the wire size(s) needed for the proposed run(s).

| MAXIMUM DISTANCE TO FARTHEST REMOTE STATION | WIRE SIZE | ADEMCO NO. |
|---|-----------|------------|
| 100 feet                                    | #22       | 289 or 286 |
| 200   | #20       | 283        |
| 300   | #18       | 284        |
| 500   | #16       | 282        |



**DIAGRAM 1: Mounting Detail**

1. Disconnect the panel's battery and AC power.
2.
  - a. For No. 1024: Place the No. 244 in the cabinet, in any convenient location above or below the chassis.
  - b. For No. 1026: Install the No. 244 at the right end of the panel's chassis, as shown in Diagram 1.
    - a) Remove screw at right side of cabinet and remove chassis from cabinet.
    - b) Insert tab at right end of chassis into slot along edge of No. 244
    - c) With No. 244 nesting behind right end of chassis, replace chassis in cabinet.



NOTE: USE NO MORE THAN 4 REMOTE STATIONS WITH EACH NO. 244

**DIAGRAM 2: Field Connections**

- d) Replace screw at right side of cabinet to hold chassis and No. 244 in place.
3. Connect 5 of the No. 244's leads to the control, as shown in Diagram 2. Quick connect terminals are provided on these leads.

4. Splice the No. 244's ORANGE lead to one of the wires of each two wire run to be made. These will be the negative (-) leads.
5. Connect the other lead of each two wire run to the RED lead of the No. 244. These will be the positive (+) leads.
6. At each remote station, make sure the positive (+) and negative (-) leads of the two wire run are soldered to the remote station(s) (+) and (-) points respectively, as indicated.
7. Three No. 8066 Diodes are included with each No. 244 Two Wire Adapter.
  - a. At each tampered remote station (e.g.: Nos. 246, 246R or 5246) connect a No. 8066 Diode between the tamper switch and lockswitch as shown (observe polarity) and connect a wire jumper between the LED terminal and the lock-switch as shown.
  - b. At each non-tampered remote station (e.g.: No. 214) connect the incoming wires as shown (observe polarity). The diode is already installed.
8. If desired, locking type emergency (panic) switches (e.g.: Nos. 264, 266, 268 or 269) may be connected across the two wire run(s) to the remote stations instead of on separate wiring runs to the panel.
9. Reconnect the panel's battery and AC power.
10. Arm and disarm the system at each remote station and check the response of each station's LED indicator. On tampered stations, check the action of the tamper switch as well.

Tamper Switch Note: If a tamper station's front plate is removed, the station's tamper switch will close, the alarm bell will ring and the panel's dry output contacts will close (the station's LED will not light nor can the panel be armed or disarmed). Replacing the station's front plate will silence the bell, restore the output contacts and return the system to an armed condition.

## SPECIFICATIONS:

### No. 244

|             |   |        |          |
|-------------|---|--------|----------|
| Physical:   | Length:   | 3"     | (7.6 cm) |
|             | Width:  | 1-3/4" | (4.4 cm) |
|             | Height:   | 3/4"   | (1.9 cm) |
| Electrical: | Powered from control instrument (6V. DC).<br>Up to 4 single LED remote stations may<br>be connected to one No. 244. |        |          |

NOTE: When a system using a No. 244 is installed in a high radio frequency (RF) environment, problems of intermittent self-arming of the panel may be experienced. To remedy this situation, cut the orange and red wires of the No. 244 to a length of approximately 1/2 inch from where they emerge from the cover. Twist together the insulated portion of these wires and strip a small amount of insulation off the end of each. Install a .022 ufd. disc capacitor (obtainable locally) between the orange and red leads. Reconnect the two wires from the remote station(s) and insulate the connections. Insure that the lead length on the capacitor is no more than 1/2 inch.