

# INSTALLATION AND SETUP GUIDE

## INTRODUCTION

The 5883 RF Transceiver Module contains an RF receiver and a transmitter. It is intended for use with ADEMCO's 5800 series RF transmitters, including bi-directional units (e.g. 5827BD, 5804BD), and the 5800RL Wireless Relay Module (see Fig. 1).

The 5883 receives alarm, status, and control messages from 5800 transmitters, and passes these messages to the control panel via wired connections. The control then responds accordingly (arm/disarm the system, initiate an alarm, etc.). The 5883 also transmits system status and other conditions to 5804BD or 5827BD 2-way wireless units (if used), which then display these conditions.

When used with the 5800RL Wireless Relay Module, the 5883 can operate in two ways, depending on the 5800RL's mode setting. The 5883 can emulate the functions of a 5800TM module or it can control the 5800RL's relays in the same way a 4204 controls wired relays.

The 5883 features a Spatial Diversity system that virtually eliminates the possibility of "Nulls" and "Dead Spots" within the coverage area. It also incorporates ADEMCO's new SignalSentry™ technology (UL-864 and RF Jam Detect).

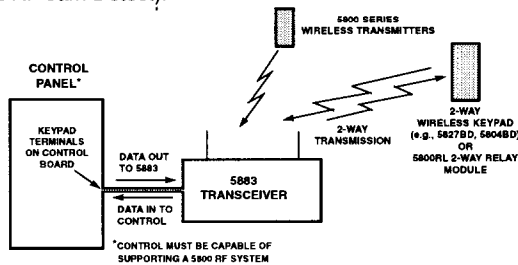


Figure 1. Block Diagram

## MOUNTING

With some controls, the 5883 PC board may be mounted inside the control's cabinet instead of remotely in its own housing. In either case, avoid mounting the 5883 with its antennas touching a metal surface. Follow the applicable mounting directions below.

### Removing the Cover

Remove the 5883's cover by inserting and twisting a screwdriver blade in the slot at the center of the cover's lower edge.

### Mounting inside the control's cabinet (refer to Fig. 2):

1. Remove the 5883's circuit board from its base by bending back the two flexible plastic tabs that hold the board's lower edge. Discard the 5883's unused plastic cover and base.
2. In the control's cabinet, unfasten and move the control circuit board downward (if already installed).
3. Hang two *short* (black) mounting clips (provided) on the raised cabinet tabs in the cabinet, as shown in Detail B of Figure 2.
4. Insert the top of the 5883's board into the supporting slots at the top of the cabinet (Detail A). Swing the bottom of the board into the two short (black) mounting clips installed in step 3, and secure it to the cabinet with the accompanying screws. See Detail B.
5. Insert the top of the control's board into the slot in the black clips holding the lower edge of the 5883 board (see Detail B); position two *long* (red) clips at the lower edge of the board (see Detail C).
6. Swing the lower edge of the control board into place, and secure with two additional screws.
7. Insert the grounding lugs (provided) through the top of the cabinet and into the *left-hand* terminals of the antenna blocks (at the upper edge of the 5883's circuit board). Secure it to the cabinet with the two screws provided. See Detail D.
8. Insert the 5883's two antennas through the two openings in the top of the cabinet, one into each block's right-hand terminal, and tighten the screws to secure them.
9. Affix the 5883's Summary of Connections label to the inside of the control's cabinet door.

### Mounting the 5883 remotely

**NOTE:** If you are mounting the 5883 in its own enclosure, the supplied PCB mounting clips, grounding lugs, and screws are not needed.

1. For concealed wiring, route wires through the rectangular opening at the rear of the base before mounting. For surface wiring entry, a thin breakaway area is provided along the base's right edge.
2. Mount the module in the selected location. For greatest security, use all four mounting holes (two keyslot holes and two round holes) in the plastic base.
3. Install the antennas in the right-hand terminals of the two terminal blocks at the upper edge of the 5883's circuit board, one into each block's right-hand terminal, and tighten the screws to secure them.
4. Affix the 5883's Summary of Connections label to the inside of the housing cover.

### Mounting in a Separate Cabinet for Commercial Fire Applications

For Commercial Fire applications, the 5883 module must be *mounted in a separate cabinet* (N4868V4-BE), using the ADEMCO Cam Lock (N6277), and Retainer Clip (N6277-1). Refer to the control's instructions for installing the Cam Lock and Retainer Clip.

The cabinet containing the module must be located no more than 20 feet from the alarm control cabinet, with no intervening walls or barriers.

1. Remove the PC board by removing the two screws and bending back the two flexible plastic tabs that hold the board's lower edge.

2. Insert the top of the board into the supporting slots at the top of the cabinet (see Figure 1 and Detail A, Figure 2).

Secure the bottom of the board with the 2 screws removed in step 1 above, using an insulating washer (supplied) between the head of each mounting screw and the PC board.

**IMPORTANT:** If you are mounting the 5883 in a separate cabinet in a Commercial Fire installation, *do not use the antenna grounding lugs.*

3. Affix the 5883's Summary of Connections label to the inside of the cabinet door.

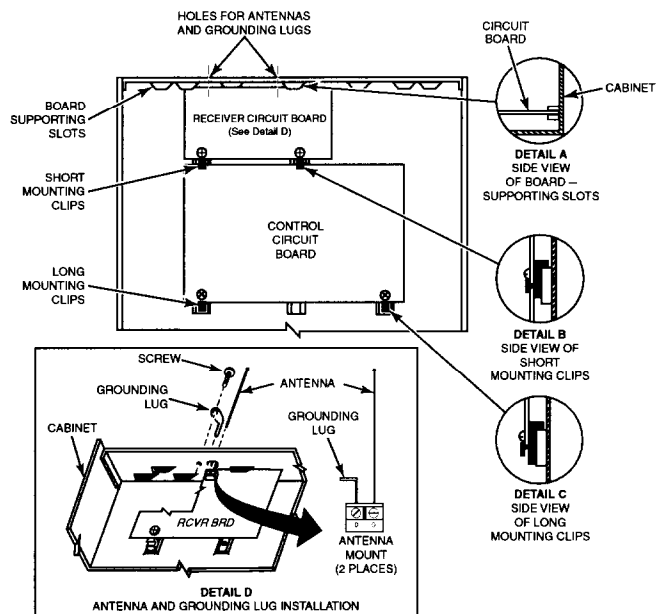


Figure 2. Installing the 5883 Board in the Control's Cabinet (Check the control's Installation Instructions for applicability)