

# ADEMCO 5817CB

## WIRELESS COMMERCIAL/ HOUSEHOLD TRANSMITTER

### INSTALLATION AND SETUP GUIDE

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This warranty replaces any previous warranties and is the only warranty made by Seller on this product(s). No increase or alteration, written or verbal, of the obligations of this Limited Warranty is authorized.

This device complies with Part 15 of FCC rules and RSS 210 of IC. Operation is subject to the following two conditions: (1) this device may not cause harmful interference. (2) this device must accept any interference received, including interference that may cause undesired operation.

*Note: The user shall not make any changes or modifications to the equipment unless authorized by the Installation and Setup Guide or User Guide. Unauthorized changes or modifications could void the user's authority to operate the equipment.*

**UL** For dry, indoor use only. Do not install in air-handling spaces.

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K5623V2 10/07 Rev. A (Preliminary)

#### GENERAL INFORMATION

The 5817CB is a universal contact-monitoring transmitter that can be used with household and commercial fire and burglary-initiating devices such as door/window contacts, motion and glassbreak detectors, sprinkler water flow switches, tamper switches, post indicator valves, manual pull stations, and remote duct detectors. Upon activation, it emits an RF signal to a control panel that sends a burglary or fire alarm to a central station. The 5817CB has three unique input loops (zones). The *first* loop (*primary loop*) is supervised and typically used for high-priority alarm reporting such as commercial fire or burglary. It requires a 470K ohm end-of-line resistor to be placed across the sensor. The *second* loop is the built-in, normally closed reed switch (used in conjunction with a magnet, as described below). The *third* loop is another normally closed household burglary loop. All three loops may be used. A fourth (automatically enrolled) loop contains two tamper switches to protect the 5817CB transmitter. A built-in cover tamper switch is activated when the cover is removed. A unit tamper switch is activated if the unit is separated from its mounting plate.

#### PROGRAMMING

The 5817CB has its own unique serial number permanently assigned during manufacture. You must "enroll" this transmitter serial number in the control panel at some point prior to its usage in the alarm system. Refer to the control panel's installation instructions for specific programming procedure. **Note:** During programming of the control panel, program the 5817CB transmitter as Input Type "RF" (i.e., supervised RF) (*mandatory for UL installations*).

#### MOUNTING

*For proper orientation of the unit in relation to its wall mounting plate and the loop wiring, read all of this section before installing the unit. Signal strength may vary from location to location. Before mounting the transmitter permanently, conduct Go/No Go tests (see control's instructions) to verify adequate signal strength from this location.* When a satisfactory location is found, **make note of the position of the unit on the wall**, remove the battery and proceed with installation. The following mounting instructions assume that the unit will be mounted as shown in the Figures. The unit may, however, be installed in any direction, as long as the relationship of the unit to its mounting plate or tamper switch hold-down (if used), is maintained.

*The 5817CB is supplied with a tamper switch hold-down tab (connected to the mounting plate as shown in Figure 1), for use when the wall mounting plate is not needed. Remove the tab with diagonal cutting pliers.*

The mounting plate, installed as described below, enables easy removal of the unit for servicing, should it become necessary.

- 1. Remove the transmitter's cover** by inserting the flat blade of a small screwdriver into the pry-off slot at the bottom end of the unit on the right side closest to the cover's decorative ribs and twisting.
- 2. Disengage the supplied mounting plate from the unit** by inserting the blade of a small screwdriver into the mounting plate release hole (see Figure 3) and pushing the locking tab out (see Figure 1). Slide the mounting plate downward along the case back. **Note:** For this application, the alignment guide strip along one edge of the mounting plate serves no function and may be broken away, if desired.
- 3. If concealed wiring is to be used**, feed the wires through the concealed wiring entry hole at one corner of the mounting plate (and/or case back). *Surface* wiring is discussed in Step 5 below).
- 4. Install the mounting plate**, with its case-holding posts pointing up, in the location determined. Use two flat head dry-wall screws. **Note:** To ensure proper operation of the unit's back tamper (when it is separated from the mounting plate), the screws must be anchored to a wall stud or other solid wood material. **If the mounting plate will not be used**, make note of the location of the tamper switch hold-down as shown in Fig. 1 for the proper placing of the hold-down tab in Fig. 2.
- 5. If surface wiring is to be used**, remove the knockout slot in the case back (located across from loop 3 terminal block). **Surface wiring** should enter through this knocked out space provided. Do not connect the wiring to the terminal block(s) yet.

6. **Attach the case back** to the mounting plate by sliding the keyhole slots in the case back down onto the mounting plate's holding posts. The locking tab will click as the case back locks in place. **To disengage the unit from an installed mounting plate**, insert a small screwdriver into the mounting plate release hole, push down to retract the locking tab, and push upward on the unit to disengage from posts. **If not using the mounting plate**, it is necessary to remove the PC board from the case back. Slide a small flat bladed screwdriver between the case back and PC board near the board hold-down clip and **carefully** pry the board out.
7. In the area that was **previously** marked for the location of the mounting plate, (step 4), install the hold-down tab with a 5/8" flat head dry-wall screw. The tab must be aligned with the corresponding slot in the case back as shown in Figure 2. The tab as well as the case back must be anchored to a wall stud or other solid wood material.
8. To reinstall the PC board into the case back, position the board onto the two retaining studs on one side of the case back and snap the board into place. The hold-down tab must mate with the corresponding cutout in the case back after case back is installed.
9. Reverse the procedure of the first three steps to complete reassembly of the unit.
10. **Set the DIP switch** (after the control panel has enrolled the transmitter's input IDs) for the desired primary loop characteristics, as described in the table below.

PRIMARY LOOP OPTIONS TABLE				
SWITCH SETTING	DIP SWITCH POSITION			
	1	2	3	4
ON	<b>REPEATING TRANSMISSION (every 4 sec.)</b> UPON PRIMARY LOOP FAULT Use for high priority alarm, such as fire.	SWITCH MUST <b>ALWAYS</b> BE IN THE <b>ON</b> POSITION	SWITCH MUST <b>ALWAYS</b> BE IN THE <b>ON</b> POSITION	SWITCH MUST <b>ALWAYS</b> BE IN THE <b>OFF</b> POSITION
OFF	<b>SINGLE TRANSMISSION</b> PER PRIMARY LOOP CHANGE-OF-STATE			

- Notes:**
- a. In order for the control panel to enroll the transmitter, the DIP switches **must** be set to OFF – ON – ON – OFF (see Figure 3).
  - b. The Auxiliary loops are not affected by the DIP switch settings.

#### UL REQUIREMENT

1. If using one of the panel revisions shown in the following table, and programming the 5817CB as an Entry/Exit zone, you **must** enroll the tamper loop (loop 4) as a separate zone, programmed for 24-hour response (e.g., Zone type 5 — Trouble-by-day/Alarm-by-night).

Model #	Rev.	EPROM P/N
FA1600C	8	(WAVIS150FA-18)
Vista-32FB	3	(WAVIS32FB-13)
Vista-128FB	4	(WAVIS128FB-14)
Vista-128B	3	(WAVIS128B-13)

2. For UL Commercial Burglary installations, this transmitter must be used in conjunction with the 5881ENHC RF Receiver.

#### WIRING CONNECTIONS

Connect the loop wiring to the unit's terminals before installing the battery (see Figure 3).

- Notes:**
- a. *Primary loop 1 is a supervised loop and must have an end-of-line (EOL) resistor (470K ohms, supplied) placed across the last sensor. Additionally, for Primary loop 1, a contact device may not be installed more than 20 feet from the transmitter.*
  - b. *If loop 2 is not going to be used, the magnet is not necessary.*
  - c. *If loop 3 is not going to be used, no connection is needed across its terminals. For UL household burglary and fire installations, the loop 3 contact device (if used) may not be more than 3 feet from the transmitter.*

#### BATTERY INSTALLATION/REPLACEMENT

1. **Remove the transmitter's cover** as described in Mounting Step 1.

2. **Observe correct polarity and insert the battery** provided into the battery holder (see Figure 3). *Take care not to bend the antenna.*

**Note:** Replace battery *only* with: Duracell DL123A, Panasonic CR123A, Ademco 466 or Varta CR123A.



**Risk of fire, explosion, and burns. Do not recharge, disassemble, heat above 212°F (100°C), or incinerate. Dispose of used batteries promptly. Keep away from children.**

3. **To replace the cover**, engage the hooks along the top edge and snap shut.

#### SPECIFICATIONS

**Dimensions:** 1-9/16"W x 3-1/2"H x 1-3/16"D (40mm x 89mm x 30mm)

**Battery:** 3V Lithium (see *BATTERY INSTALLATION/REPLACEMENT*).

#### UL Listings:

Commercial Fire.....UL864

Household Burg.....UL1023

Household Fire.....UL985

Commercial Burg.....UL365, UL609, UL1076, UL1610

This is a CLASS B DEVICE

#### TESTING

Regular maintenance and inspection (at least annually) by the installer and frequent testing by the user are vital to continuous satisfactory operation of any alarm system. For testing procedures refer to the User Guide or Installation and Setup Guide for the system control panel.

The installer should assume the responsibility of developing and offering a regular maintenance program to the user, as well as acquainting the user with the proper operation and limitations of the alarm system and its component parts. Recommendations must be included for a specific program of frequent testing (at least weekly) to insure the system's operation at all times.

**FOR DETAILS ON LIMITATIONS OF THE ENTIRE ALARM SYSTEM, REFER TO THE CONTROL PANEL'S INSTALLATION AND SETUP GUIDE FOR THE RECEIVER/CONTROL WITH WHICH THIS DEVICE IS USED.**

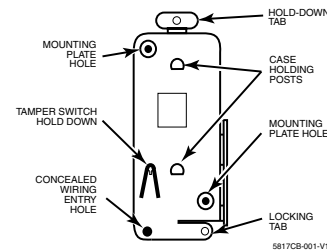


Figure 1. Mounting Plate

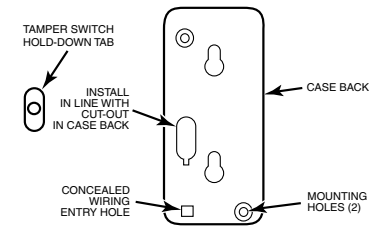


Figure 2. Case Back

**NOTE:** For UL commercial and household fire installations, only one initiating device may be connected to this transmitter. For UL commercial burglary installations, multiple initiating devices may be used as long as the devices all serve the same function, such as door/window contacts, motion or glassbreak detectors. All initiating devices must be located within the same room.

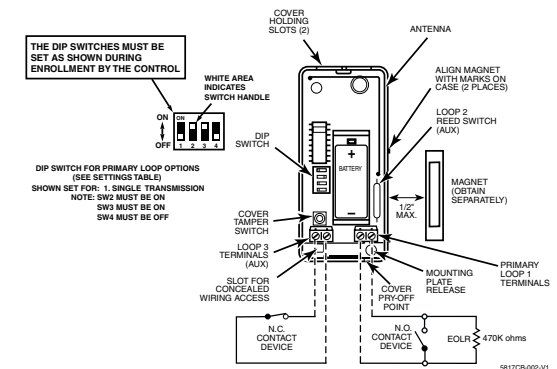


Figure 3. 5817CB Transmitter, Top Cover Removed