Honeywell

ADEMCO 5817CBXT   Wireless Commercial/Household Transmitter Installation Instructions

General Information

The 5817CBXT 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. The 5817CBXT has three unique input loops (zones).

Loop 1: Supervised and typically used for high-priority alarm reporting such as commercial fire or burglary. It requires a 470K ohm end-of-line resistor (PN EOLR 470K) to be placed across the sensor. Short circuit reports as loop 1; open circuit reports as loop 4 (tamper). Response time is 50mS.

Loop 2: Built-in, normally closed reed switch (used in conjunction with a magnet).

Loop 3: Normally closed household burglary loop. Response time is 80mS.

Loop 4: Tamper loop (automatically enrolled) contains two tamper switches. 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.

1   Programming

The 5817CBXT has a built-in serial number that must be enrolled in the control panel prior to its usage in the alarm system. Assign loops 1-3 to individual zones respectively. Refer to the control panel's installation instructions for specific programming procedure.

When programming the 5817CBXT transmitter, set as Input Type "RF" (i.e., supervised RF) (mandatory for UL installations).

NOTE: DIP switch 1 must be set to OFF during enrollment.

2 Mounting

- 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, remove the battery and proceed with installation.

IMPORTANT: Do not mount the transmitter on or near metal objects, as this may affect transmission range. It is also good practice to avoid locating the transmitter near wiring such as AC, telephone, HVAC, computer data cables, etc.

1. **Remove the tamper switch hold down tab** from the mounting plate and set it aside. It will be needed if not using the mounting plate.

2. **Remove the transmitter's cover** using the flat blade of a small screwdriver in the pry-off slot and twisting. To replace the cover, engage the hooks along the top edge and snap shut.

3. **Disengage the mounting plate from the case back** 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.

4. **For Concealed Wiring:** Feed the wires through the concealed wiring entry hole at the bottom corner of the mounting plate (and/or case back).

   For Surface Wiring: Remove the knockout slot in the case back (near loop 3 terminal block).

   Do not connect the wiring to the terminal block(s) yet.

5. **If Using the Mounting Plate** (for easy removal later for servicing)**:**
   a. Install the mounting plate in the location determined, with its case-holding posts pointing up. Use two flat head dry-wall screws.

      NOTE: To ensure proper operation of the unit's back tamper, the screws must be anchored to a wall stud or other solid wood material.

   b. 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 clicks as the case back locks in place.

   If Not Using the Mounting Plate:
   a. 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.

   b. 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.

   c. In the area that was marked, 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.
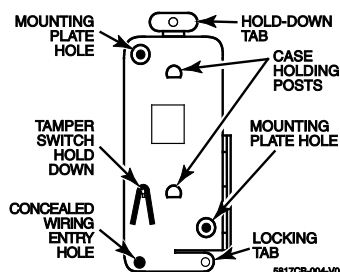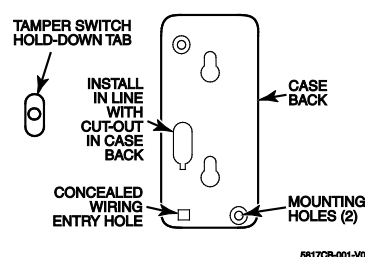

Figure 1. Mounting Plate
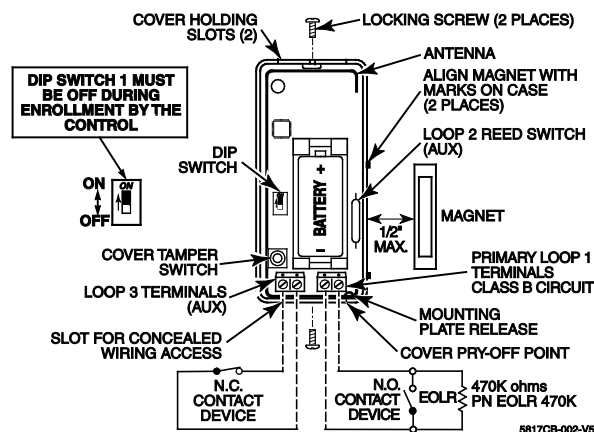

Figure 2. Case Back

Figure 3. 5817CBXT Transmitter, Top Cover Removed

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.

No more than one wire per terminal may be connected.

Use only 14-22AWG wire.

d. Mount the case back to the wall using two flat head dry-wall screws, anchoring it to a wall stud or other solid wood material.

e. 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.

6. **Set the DIP switch** (after the control panel has enrolled the transmitter loops) for the desired primary loop characteristics, as described in the Primary Loop Options Table.

   NOTES:
   - The DIP switch may be set by the installer only. It is not a user function.
   - Due to FCC regulation 15.231(a)(4), this switch may not be set to ON unless loop 1 is used to indicate a type of emergency involving fire, security, or safety of life.

PRIMARY LOOP OPTIONS TABLE

SWITCH SET TO	DIP SWITCH POSITION
ON	**REPEATING TRANSMISSION** **(every 4 sec.)** UPON PRIMARY LOOP 1 FAULT Use for high priority alarm, such as fire.
OFF	**SINGLE TRANSMISSION** PER PRIMARY LOOP CHANGE-OF-STATE

Notes: a. In order for the control panel to enroll the transmitter, DIP switch 1 **must** be set to OFF (see Figure 3).

b. The Auxiliary loops are not affected by the DIP switch settings.

3 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. For UL household burglary and fire installations, the loop 3 contact device (if used) may not be more than 3 feet from the transmitter.

4 Battery Installation/Replacement

1. Remove the transmitter's cover as described in Mounting Step 2.
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, DL123, Panasonic CR123A or ADEMCO 466.

   ⚠ **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. Install cover locking screws when required for regulatory agencies.

   ENROLLMENT NOTE: Wait 30 seconds after battery installation before enrolling transmitter.

5 Testing

Regular maintenance and inspection (at least annually) by the installer are vital to continuous satisfactory operation of any alarm system. The installer should instruct the user to test the system frequently (at least weekly) to insure the system's operation at all times, as well as offer a regular maintenance program to the user. The user should also be acquainted with proper operation and limitations of the entire alarm system. For testing procedures, refer to the User Guide or Installation and Setup Guide for the system control panel.

UL Requirement

1. If using a compatible commercial control panel (ex. VISTA Turbo series) and programming the 5817CBXT 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).

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

Specifications

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

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).
Signal Level: To determine ambient noise level and signal strength, refer to compatible receiver Installation and Setup Guide.
NFPA-72 Compliant.
UL Listings:
Commercial Fire…….UL864
Household Fire………UL985
Household Burg……..UL1023
Commercial Burg……UL365, UL609, UL1076, UL1610

For **Limitations of the entire alarm system**, refer to the control panel's installation guide for the receiver/control with which this device is used.

WARRANTY Go to:
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DOCUMENTATION AND ONLINE SUPPORT Go to:
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