

Installation Instructions for the RF3227E RF Receiver

1.0 General Information

The RF3227E RF Receiver allows the use of wireless devices when using a compatible Control Panel.

2.0 Specifications

- **Dimensions (H x W x D):** 10.8 cm x 15.2 cm x 3.1 cm
- **Operating Temperature:** 0°C to 65°C
- **Frequency:** 433.42 MHz
- **Power Requirements:** 12 VDC, 30 mA, nominal
- **Compatible Control Panels:** DS7240
- **Compliance:** Changes or modifications not expressly approved by Bosch Security Systems can void the user's authority to operate the equipment.

3.0 Mounting

3.1 Considerations

- The receiver should be mounted in a central location in regard to all wireless sensors, whenever possible.
- The receiver should be mounted vertically with at least 25 cm clearance above it for the antennas.
- Avoid mounting the receiver in areas with significant metal or electrical wiring, such as furnace rooms and utility rooms. If this is unavoidable, mount the receiver with the antennas extending above any metal surface.
- Avoid mounting the receiver in areas where it may be exposed to moisture.
- Reception distances are generally improved with higher mounting locations and with no metal objects near the antennas.

3.2 Setting Up the Wall Tamper

Note: If not using the wall tamper, proceed to **Section 3.3**.

To enable the wall tamper switch:

- Remove the outer cover of the receiver (see *Figure 1*) and set it aside.

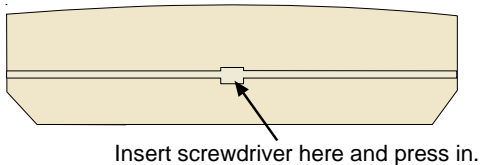


Figure 1: Removing the Outer Cover

- Remove the inner cover by pressing the latch.

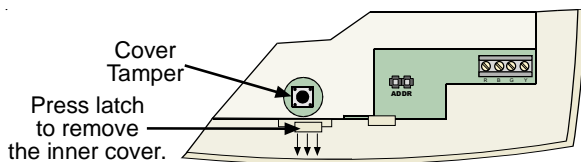


Figure 2: Removing the Inner Cover

- Move the wall tamper jumper as shown in *Figure 3*.

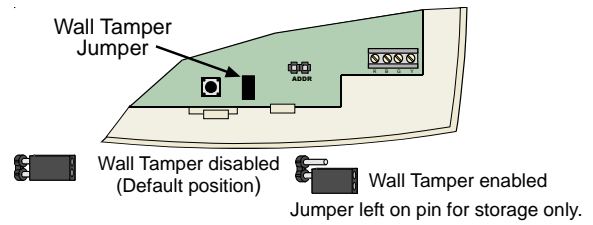


Figure 3: Wall Tamper Jumper

- Replace the inner cover.
- Place the spring from the hardware packet over the shaft of the tamper switch located on the back of the receiver (see *Figure 4*).

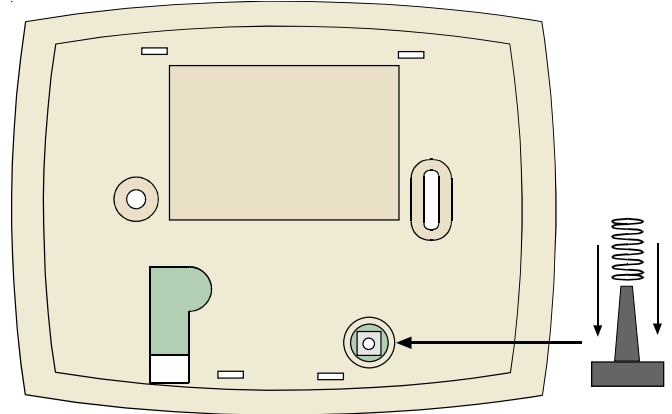


Figure 4: Installing the Tamper Spring

Note: Gently press the spring onto the tapered shaft. Do not force it down onto the shaft.

3.3 Mounting the Receiver

- Determine the receiver's mounting location (see *Section 3.1*).
- If not already done, remove the receiver's outer cover (as shown in *Figure 1*) and set it aside.
- Place the receiver base on the wall at the desired mounting location and mark the two mounting holes (see *Figure 5*).

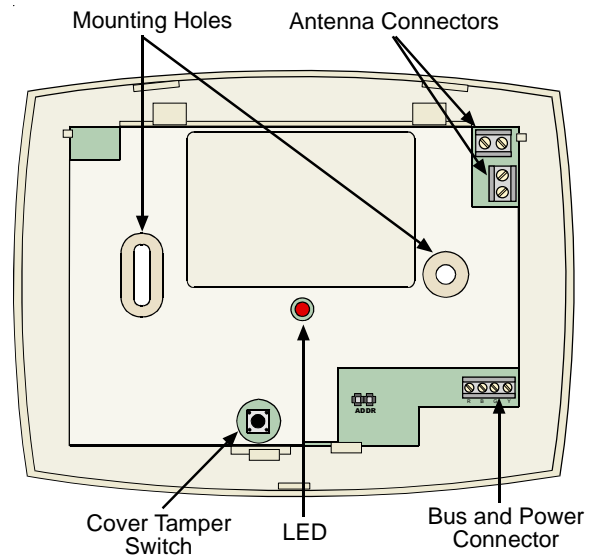


Figure 5: Receiver with Outer Cover Removed

- Drill holes and install anchors (supplied) if necessary.
- Secure the receiver base to the wall with screws (supplied).
- Insert the antenna into one of the antenna connectors as shown in *Figure 6*.
- Tighten screws to secure the antenna.

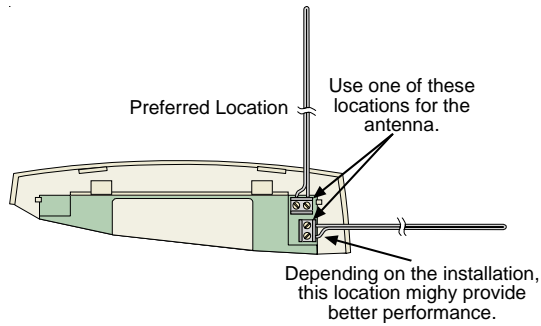


Figure 6: Connecting Antennas

4.2 LED Status

Table 1 describes the receiver's status based on the LED condition.

LED Condition	Indicates
On	The receiver is functioning normally.
Off	A power failure occurred or the receiver is not correctly wired.
Turns on momentarily	The receiver acknowledged receiving a message from a compatible transmitter.
Flashes rapidly for less than one minute	The receiver is being programmed with zone and transmitter IDs from the compatible panel. This condition occurs at system initialization (power up) or when new zone information is programmed into the system. The rapid flashing lasts less than one minute.
Flashes rapidly for more than one minute	The receiver failed power-up self tests. Replace the receiver.

Table 1: LED Status

3.4 Setting Receiver Options



Changing these settings requires that the power to the receiver be removed and then reapplied for the changes to take affect.

- Set the receiver address option as required.

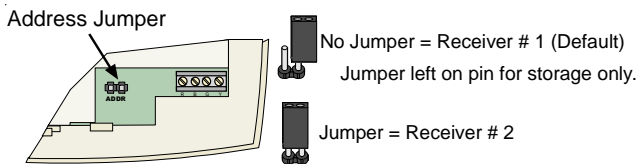


Figure 7: Address

5.0 Panel Programming

For programming information, refer to the compatible panel's *Program Entry Guide* or *Control/Communicator Reference Guide*.

4.0 Wiring and Power Up

4.1 Wiring the Receiver to the Control Panel

- Disconnect power from the control panel.
- Using a minimum of 0.8 mm diameter wire, connect the control panel Option/SDI Bus terminals to the RF3227E Receiver's terminals as shown in *Figure 8*. The wire length between the receiver and the control panel should not exceed 300 m. Adding additional devices to the bus might reduce the maximum distance. Shielded cable is not required. Do not use twisted pair wire.

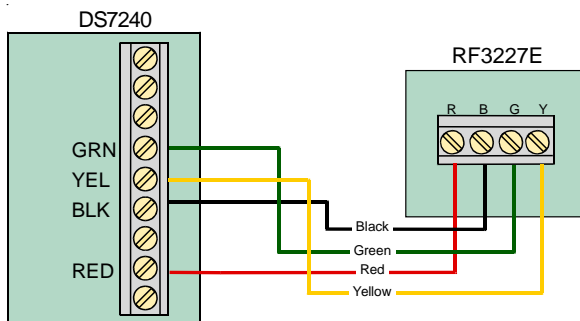


Figure 8: Connecting to the Options/SDI Bus

- Replace the outer cover.
- Apply power to the control panel. The red LED at the center of the receiver lights.