



# Model 8054 MicroPLUS RF Receiver Installation and Programming Instructions

## SECTION 1 - DESCRIPTION

The model 8054 is a high security RF "rotating code" receiver that is designed for stand alone applications. This receiver is available in memory sizes of 50, 100, 250, 500, 1000 and 1250 MicroPLUS™ transmitter codes. The "rotating code" programming in this receiver and the companion MicroPLUS™ transmitters prevent copied transmitter codes from being used again to access a controlled entry point. This receiver includes 10 time zones (eight programmable), a history buffer that can store up to 2800 transactions, and can be connected to a serial printer to print the stored transaction records, or can be programmed to print transactions in real time mode.

The transmitter codes that the receiver will respond to can be defined by facility codes and button numbers. For example, one 8054 receiver can be programmed to respond to only button 1, while a second receiver can be programmed to respond only to button 2. In this manner, a two button transmitter can activate two different receivers without fear of both receivers responding to the same transmitter code and button. There are six (6) different button combinations that the receiver can be programmed to respond to: button 1, button 2, button 3, buttons 1&2, buttons 2&3, buttons 1&3. When programmed for multiple buttons, the respective transmitter buttons must be pressed together.

## SECTION 2 - INSTALLATION

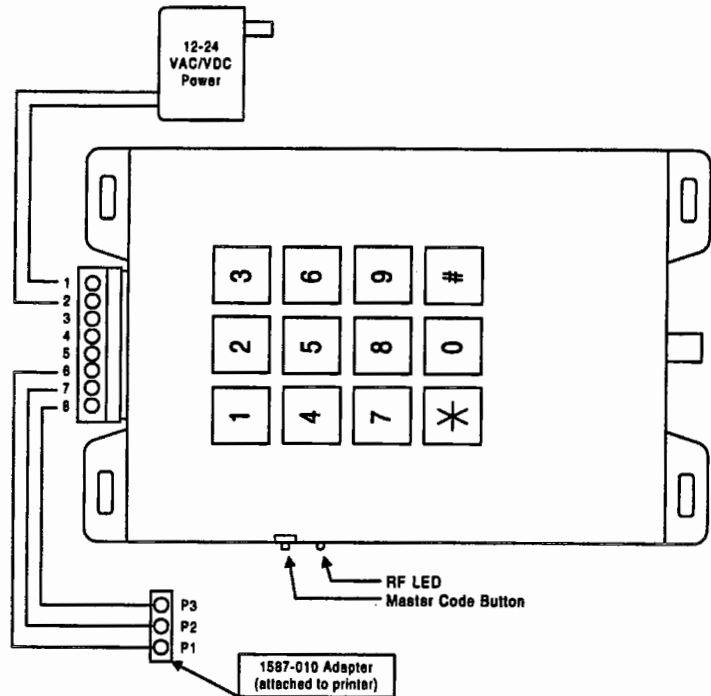
Install the 8054 receiver in a location so that the antenna is not surrounded by metal (keep at least five feet away) and is in free air as high as possible off the ground. Use a coax antenna kit if necessary to remote mount the antenna for better reception. This receiver is not designed to be installed outdoors without being protected from the weather. An outdoor enclosure is available for this application if required.

Accessory items available for this product are: Outdoor Enclosure p/n 8057-110, Coax Antenna Kit p/n 1514-073, Antenna Amplifier p/n 8058-080, Yagi Directional Antenna p/n 1514-060.

## SECTION 3 - WIRING

1. 12 - 24 volt AC or Negative DC
2. 12 - 24 volt AC or Positive DC
3. Relay Normally Open (NO)
4. Relay Normally Closed (NC)
5. Relay Common (C)
6. Printer Data  
(P1 on DoorKing printer adapter)
7. Printer Signal Ground  
(P2 on DoorKing printer adapter)
8. Printer Busy  
(P3 on DoorKing printer adapter)

- Use minimum 22 AWG wire to power the receiver.
- Relay contacts (terminals 3-4-5) are rated for 30V, 1 amp max.
- **Maximum wire run for printer data is 500 feet using Belden 9931, Consolidated 5324-CL or equivalent shielded wire. Do not use twisted pair wire for printer data.**
- Serial printer setting:  
9600 baud, 1 start, 8 data, 1 stop.



## SECTION 4 - PROGRAMMING

The information on the back of this sheet provides programming instructions for the various functions and features of the 8054 receiver. The receiver is equipped with a small "beeper" that helps guide you through the programming steps with a series of "beeps".

- When required data has been entered correctly and the  key is pressed, a short beep will be heard.
- A long beep (2 seconds) indicates that the programming sequence has ended successfully either because the function was completed or there has been no inputs for 20 seconds.
- Four (4) long beeps in a row indicate that something is wrong. For example, data was entered incorrectly (facility code larger than 4095 for example), there is not enough memory to program all transmitters (trying to program 60 transmitters in a 50 memory unit for example) or the receiver is programmed for real time print mode but the printer is not connected or not turned on.

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

This class [B] digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe [B] respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

#### 4.1 MASTER CODE

1. Press and release the MASTER CODE button on the side of the receiver case.
2. Enter a four digit code [ ] [ ] [ ] [ ] and then press [ ] (beep).

#### 4.2 ADD A TRANSMITTER(S)

1. Press [ ] [ ] [ ] [ ] and the four digit master code [ ] [ ] [ ] [ ] (beep).
2. Enter the two digit button number [ ] [ ] that the receiver is to respond to, then press [ ] (beep).

Button 1 enter [ ] [ ]

Button 2 enter [ ] [ ]

Button 3 enter [ ] [ ]

Buttons 1&2 together enter [ ] [ ]

Buttons 2&3 together enter [ ] [ ]

Buttons 1&3 together enter [ ] [ ]

3. Enter the four digit facility code [ ] [ ] [ ] [ ], then press [ ] (beep).  
Valid facility code numbers are: 0000 - 4095

4. Enter the five digit beginning transmitter number [ ] [ ] [ ] [ ] [ ] then press [ ] (beep).

5. Enter the five digit ending transmitter number [ ] [ ] [ ] [ ] [ ] then press [ ] (beep).

Valid transmitter numbers are: 00000 - 65407

If programming a single transmitter, the beginning and ending transmitter number will be the same.

6. Enter the time zone number [ ] then press [ ] (beep).

Valid time zone numbers are: 0 - 9

There are 10 available time zones, however only time zones 2 - 9 are programmable (see 4.7). Entering [ ] in step 6 will cause the receiver to never allow access for the transmitter(s) being programmed, while entering [ ] in step six will always allow access to the transmitters being programmed.

When programming a block of transmitter numbers, the receiver will emit a short beep every 3 seconds. Wait until this beeping stops before proceeding with any other programming. This may take up to 5 minutes depending on the memory size and the number of transmitters being programmed.

7. Repeat steps 2 - 7 to enter additional transmitter numbers or blocks of numbers, or press [ ] [ ] together, or wait 20 seconds to end the programming sequence (beep).

#### 4.3 DELETE A TRANSMITTER

1. Press [ ] [ ] [ ] [ ] and the four digit master code [ ] [ ] [ ] [ ] (beep).
2. Enter the two digit button number [ ] [ ] then press [ ] (beep).
3. Enter the four digit facility code [ ] [ ] [ ] [ ], then press [ ] (beep).
4. Enter the five digit transmitter number [ ] [ ] [ ] [ ] [ ] then press [ ] (beep).
5. Repeat steps 2-4 to delete another transmitter, or press [ ] [ ] together or wait 20 seconds to end the programming sequence (beep).

#### 4.4 DELETE ALL TRANSMITTERS

1. Press [ ] [ ] [ ] [ ] and the four digit master code [ ] [ ] [ ] [ ] (beep).
2. Enter [ ] [ ] [ ] [ ] then press [ ] (beep).

This sequence will take about 1 1/2 minutes. The receiver will sound a short beep about every 3 seconds, then one long beep when the deletion is complete.

#### 4.5 RELAY STRIKE TIME

1. Press [ ] [ ] [ ] [ ] and the four digit master code [ ] [ ] [ ] [ ] (beep).
2. Enter the desired strike time in seconds [ ] [ ] then press [ ] (beep).

Valid strike times are: 01 - 99

3. Press [ ] [ ] together or wait 20 seconds to end the programming sequence (beep).

#### 4.6 PROGRAMMING TIME & DAY

1. Press [ ] [ ] [ ] [ ] and the four digit master code [ ] [ ] [ ] [ ] (beep).
2. Enter the current hour and minute [ ] [ ] [ ] [ ] then press [ ] (beep).
3. Enter [ ] for AM or [ ] for PM then press [ ] (beep).
4. Enter the current month [ ] [ ] then press [ ] (beep).
5. Enter the current day of the month [ ] [ ] then press [ ] (beep).
6. Enter the last two digits of the current year [ ] [ ] then press [ ] (beep).
7. Enter the day of the week [ ] then press [ ] (beep).  
1 = Sunday, 7 = Saturday
8. Press [ ] [ ] together or wait 20 seconds to end the programming sequence (beep).

#### 4.7 TIME ZONES

1. Press [ ] [ ] [ ] [ ] and the four digit master code [ ] [ ] [ ] [ ] (beep).
2. Enter the time zone number to be programmed [ ] then press [ ] (beep).

Valid time zone numbers are: 2 - 9

3. Enter the beginning time in hours and minutes [ ] [ ] [ ] [ ] then press [ ] (beep).
4. Enter [ ] for AM or [ ] for PM then press [ ] (beep).
5. Enter the ending time in hours and minutes [ ] [ ] [ ] [ ] then press [ ] (beep).
6. Enter [ ] for AM or [ ] for PM then press [ ] (beep).
7. Enter the days of the week that the time zone is active [ ] [ ] [ ] [ ] [ ] [ ] then press [ ] (beep).

Use the # key to skip days. For example, if the time zone is active Monday through Friday only, enter:

[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

8. Repeat steps 2 - 7 to program additional time zones, or press [ ] [ ] together or wait 20 seconds to end the programming sequence (beep).

#### 4.8 PRINT MODE

1. Press [ ] [ ] [ ] [ ] and the four digit master code [ ] [ ] [ ] [ ] (beep).
2. Enter [ ] to print transactions in real time mode or enter [ ] to not print the transactions in real time mode, then press [ ] (beep).

In either case, transactions are stored in the buffer and can be printed later.

**If programming for real time print mode, printer must be connected and turned ON, otherwise the receiver will sound four long beeps.**

3. Press [ ] [ ] together or wait 20 seconds to end the programming sequence (beep).

#### 4.9 CLEAR TRANSACTION BUFFER

1. Press [ ] [ ] [ ] [ ] and the four digit master code [ ] [ ] [ ] [ ] (beep).
2. Enter [ ] [ ] [ ] [ ] then press [ ] (beep).

This sequence will take about 5 minutes. The receiver will sound a short beep about every 3 seconds, then one long beep when the deletion is complete.

#### 4.10 PRINT TRANSACTION BUFFER

1. Press [ ] [ ] [ ] [ ] and the four digit master code [ ] [ ] [ ] [ ] (beep).

The transactions stored in the buffer will print. The receiver will sound a long tone when complete.

#### 4.11 PRINT TRANSACTION FOR REQUESTED DATE

1. Press [ ] [ ] [ ] [ ] and the four digit master code [ ] [ ] [ ] [ ] (beep).
2. Enter the month [ ] [ ] then press [ ] (beep).
3. Enter the day [ ] [ ] then press [ ] (beep).

The transactions for the requested date will print. The receiver will sound a long tone when complete.