

## **INSTALLATION INSTRUCTIONS**

In some installations, electrical noise (spikes) may be carried on the telephone lines. In order to filter out these spikes, a telephone line noise filter may be added to the digital alarm receiver.

### **UL**

In order to maintain the UL listing on the FBII CP220/CP220A, ADEMCO No. 685 digital alarm receivers, you must connect the incoming phone lines through the LF465 module.

This telephone line noise filter should be installed as follows:

1. Remove AC and standby battery power from the digital alarm receiver.
2. Connect the filter box to the telephone block at the rear of the digital alarm receiver as follows:
  - A. Note the cables with the spade lugs protruding from the filter box. Each jacketed cable has a RED and BLACK conductor and an 8" colored wire connected to the outer jacket. The color of the 8" wire identifies each particular cable. The table below gives the wire colors corresponding to each telephone line.

<b>Telephone Line Number</b>	<b>Wire Color</b>	<b>Telephone Line Number</b>	<b>Wire Color</b>
1	BROWN	5	GREEN
2	RED	6	BLUE
3	ORANGE	7	VIOLET
4	YELLOW	8	GRAY

The RED and BLACK conductors with the spade lugs on each cable represent the positive (+) and negative (-) phone lines, respectively.

- B. Starting with telephone line number 1, connect the appropriate jacketed cables to the corresponding telephone line. The RED wire with the spade lug connects to the positive (+) telephone line terminal and the BLACK wire with the spade lug connects to the negative (-) telephone line terminal.
- C. Connect the spade lugs with the 8" colored wires under the ground terminal as follows:
 

**For the ADEMCO No. 685** secure the BROWN/RED/ORANGE/YELLOW wires under the screw terminal to the left of the Telco Lines terminal block. In the same manner, secure the GREEN/BLUE/VIOLET/GRAY wires under the screw terminal to the right of the Telco Lines terminal block.

**For the FBII CP220 and CP220A** secure the BROWN/RED/ORANGE/YELLOW wires under ground terminal on the Manual terminal block. In the same manner, secure the GREEN/BLUE/VIOLET/GRAY wires under the ground terminal on the Manual terminal block.

3. Connect the grounding post to a good earth ground. A cold water pipe or electrical box may sometimes be used in this capacity. Preferably, a No. 16 AWG (or larger) wire should be used.

**For the ADEMCO No. 685** the grounding post is located to the right of the serial output connectors. **Note:** The two rightmost terminals (17, 18) on the Telco Lines terminal block, (they may be marked EARTH GND) should be left disconnected.

**For the FBII CP220 and CP220A** the grounding post is located in the lower right hand corner of the receiver and is labeled EARTH GROUND.

4. Connect the telephone lines to the RJ11 jacks are labeled 1-8 on the Telephone Line Noise Filter box. Connect telephone line 1 to RJ11 jack #1; telephone line 2 to RJ11 jack #2; etc.
5. Connect the terminals labeled Earth Ground on the Telephone Line Noise Filter box to the Grounding Post on the digital alarm receiver (see step 3).
6. Apply power to the digital alarm receiver and perform a system test to verify the telephone lines.

**For the ADEMCO No. 685** press the SYSTEM TEST button to initiate a test of the telephone lines. If a telephone line fault occurs, check the polarity and/or voltage of the corresponding telephone line at the rear of the digital alarm receiver.

**For the FBII CP220 and CP220A** the receiver will automatically test the telephone lines when power is applied to the unit. If a telephone line fault occurs, check the polarity and/or voltage of the corresponding telephone line at the rear of the digital alarm receiver.

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**ADDENDUM TO:** INSTALLATION INSTRUCTIONS FOR FBII  
CP220/CP220A and ADEMCO 685

**RE:** UL LISTING WITH TELEPHONE LINE FILTER

In order to maintain the UL listing on the FBII CP220/CP220A, ADEMCO No. 685 digital alarm receivers, you must connect the incoming phone lines through the LF465 module.

Refer to the installation instructions accompanying the LF465 (part number K3429 7/98), for the wiring connections to the digital alarm receivers.

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