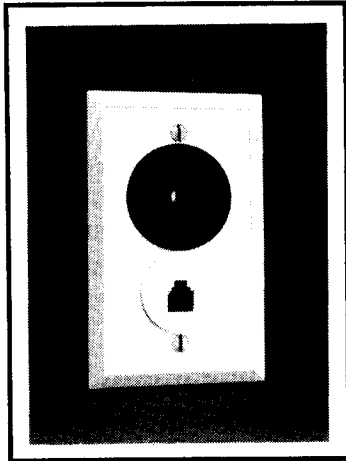# PHONE JACK SIREN (PJS)
Model # 60-108

The Phone Jack Siren has not been
investigated by Underwriters Laboratories.

ITI's Phone Jack Siren can be used with any alarm system, either hardwired or wireless, that supplies either a 6 or 12 volt DC output during an alarm. Its concept is simple; you install the PJS in place of existing modular phone jacks located throughout a typical home. You then reconnect the phone wires to the phone jack built into the PJS and you connect an extra pair of unused phone wires to the siren terminals on the PJS and route them back to your control panel. The PJS can be recessed mounted if a box is already in place, or the back box which is sent with each unit can be used for surface mounting.

With ITI's Phone Jack Siren you have all the advantages of a hardwire siren, with very little labor, since you make use of wiring that is already in place. *NOTE: You can not connect a PJS to a SX-IVB control if an Output Module or a Hardwire Touchpad Display is being used.*

INSTALLATION INSTRUCTIONS

1. Remove an existing RJ11C telephone jack from the wall. Check to be sure there are extra wires run to this jack that are not used. Also note which two wires (typically red for Ring and green for Tip) are connected to the existing jack.

2. Disconnect Tip and Ring from the existing jack and connect them to the appropriate Tip and Ring screw terminals on the back of ITI's PJS. See Figure 1.

3. Connect the two formerly unused wires (typically black & yellow) to the PJS as noted in Figure 1. *You must observe polarity.*

   These two wires (black and yellow) should now run all the way back and end somewhere near the surge protector where the incoming phone lines enter the home from the telephone pole. Ultimately, they will be connected to the siren voltage output of the control panel.
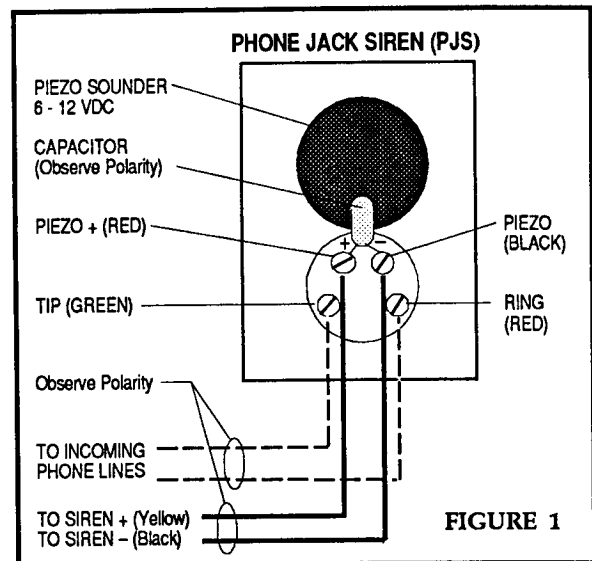
HOW TO CONNECT THE PHONE JACK SIREN TO A CONTROL PANEL:

OPTION ONE:

One option is to connect the yellow and black wires from the PJS (that now terminate near the surge protector) to a two conductor wire that you run back to the control panel siren voltage outputs.

To connect a PJS to an ITI SX-IVB control:

(1) Connect the yellow wire (PJS +) to screw #1 on terminal strip #2 in the SX-IV (TS-2 #1).

(2) Connect the black wire (PJS -) to screw 2 on terminal strip #2 in the SX-IV (TS-2 #2).

PHONE JACK SIREN (PJS)

PIEZO SOUNDER
6 - 12 VDC

CAPACITOR
(Observe Polarity)

PIEZO + (RED)

TIP (GREEN)

PIEZO
(BLACK)

RING
(RED)

Observe Polarity

TO INCOMING
PHONE LINES

TO SIREN + (Yellow)
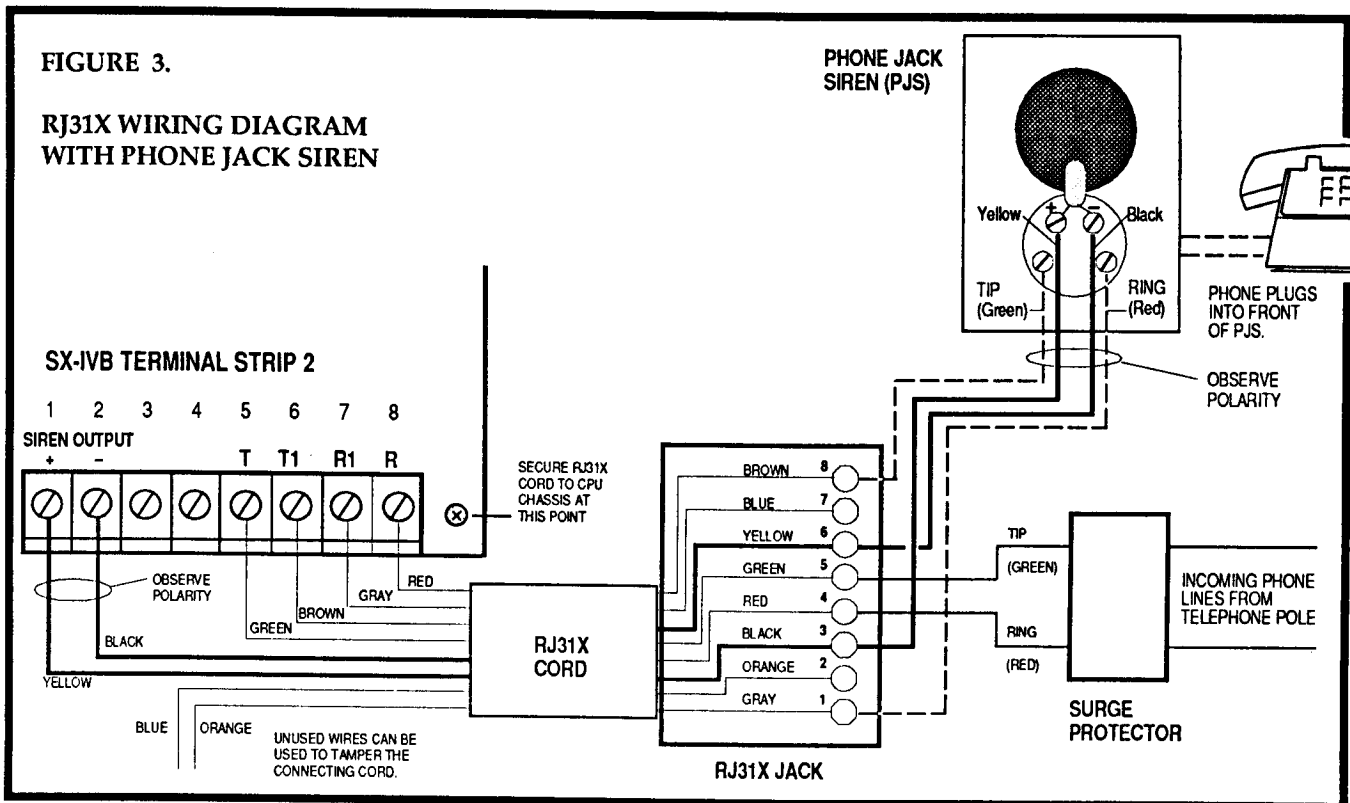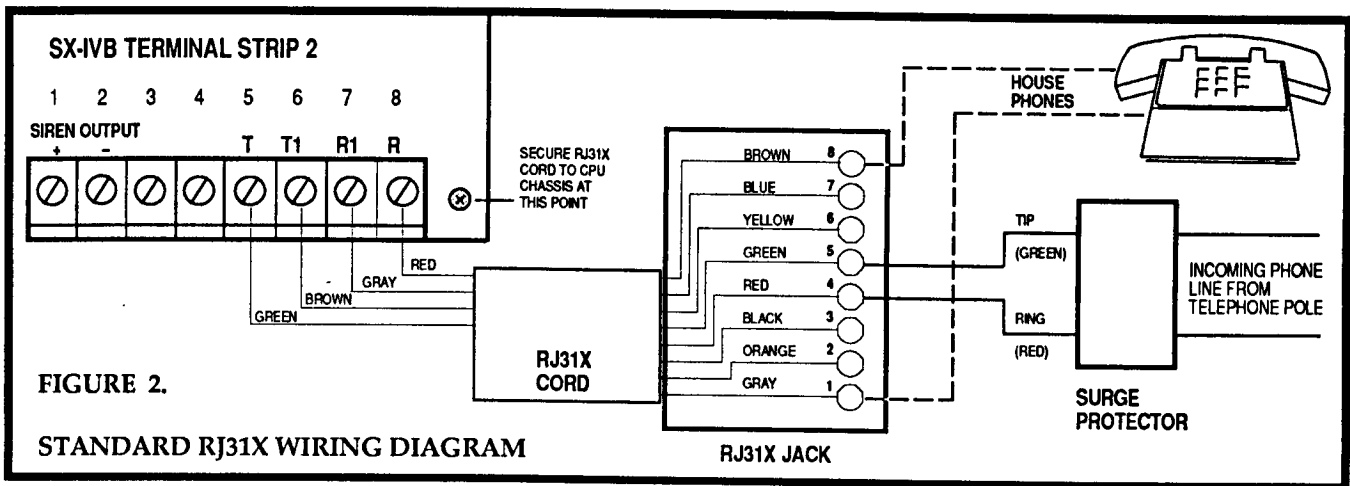TO SIREN - (Black)

FIGURE 1

HOW TO CONNECT THE SIREN WIRES TO THE CONTROL PANEL:

OPTION TWO:

As an alternative to running a separate two conductor cable from the CPU to the wires coming from the PJS you can use the RJ31X cord. (1) Instead of running a four conductor RJ31X cord from the CPU to the RJ31X Jack, use a 6 or 8 conductor cord. Two extra conductors are used to bring siren power from the CPU to the RJ31X Jack. (2) Then, instead of wiring the RJ31X Jack to the incoming phone lines using a four conductor cable, use six conductor cable. (3) Connect the two extra wires to the wires that are coming from each of the PJS's that you have installed in the home or business.

If you choose this wiring method and you are using an ITI SX-IVB control panel, first review Figure 2, which shows the standard wiring of a RJ31X jack, and then Figure 3 which shows shows the standard wiring plus connections for the PJS.

FIGURE 2.

STANDARD RJ31X WIRING DIAGRAM

FIGURE 3.

RJ31X WIRING DIAGRAM WITH PHONE JACK SIREN

Now do the following as shown in Figure 3.

1) Connect the four phone wires (Green, Brown Gray & Red) from your RJ31X Cord to the CPU as usual.

2) Connect the fifth wire (yellow) from the RJ31X cord to the first screw on terminal strip #2 (siren output +).

3) Connect the sixth wire (black) from the RJ31X cord to the second screw on terminal strip #2 (siren output –).

   Up to this point you have connected the siren output from the control panel to the RJ31X Jack. These two wires will terminate in the jack on screw terminals #3 (siren –) and #6 (siren +).

4) Now, instead of running a four conductor wire from the RJ31X Jack to the incoming phone lines, run a six conductor.

5) Connect the four telephone conductors as you normally would. *See Figure 2.*

6) Connect the fifth conductor to the RJ31X Jack terminal #6 (siren +). Connect the other end of this wire to the yellow wire (PJS+) coming from each of your PJS's.

7) Connect the sixth conductor to the RJ31X Jack terminal #3 (siren –). Connect the other end of this wire to the black wire (PJS–) coming from each of your Phone Jack Sounders.

8) *REMEMBER: The phone cord must be plugged into the RJ31X jack for the PJS to work.*

SPECIAL NOTE: If you are connecting the PJS to an ITI SX-IVB control panel the Hardwire Interior Siren jumper can be used to select whether the PJS gives status *and* alarm sounds or alarm sounds *only*. Lower position = All sounds. Upper position = Alarm Sounds only.

TAMPERING THE RJ-31X JACK

By using an 8 conductor RJ-31X cord you can tamper the cord against removal. You simply need to connect the two unused wires (orange and blue) to a Door/Window Sensor and install a jumper in the RJ-31X jack to accomplish this.

(1) Connect the blue and orange wires to the NC screw terminals on the back of an ITI Door/Window Sensor. (If you are using a hardwire panel, connect them to a NC loop that is off when the system is disarmed.)

(2) Program the DWS as an Auxiliary Sensor, number 12-17. Program the CPU for this sensor too. NOTE: Auxiliary sensors are armed 24 hours a day, will report to the central station when in alarm but will only sound a low volume siren when activated.

(3) Install a jumper between screw 2 and screw 7 inside the RJ-31X jack and plug the RJ-31X cord back into the RJ-31X jack.

(4) To test the tamper circuit, put the CPU in Level 9 (SENSOR TEST), remove the cord. This will test the sensor.

(5) Remember: The phone cord must be plugged into the RJ31X jack for the PJS to work. In order to hear the low volume siren, in the event of cord removal, you must have a wireless interior siren or a piezo directly connected to the alarm panel.

   Of course you will always have visual indication at the ITI CPU if the phone cord is disconnected from the RJ31X jack.

CONCLUSION

With an SX-IVB you can have as many as three PJS's wired to your CPU.

You now are able to have hardwire sirens in any room of the house that has a phone jack. All you have to do is run a couple of extra conductors while running wire that you would be running anyway. The phone company has already done most of the work for you; all you have to do is make the proper connections.

PLEASE NOTE

This product has been designed to take advantage of existing extra telephone wiring where available.

The utilization of this unused wiring is regulated on a state-by-state basis. We suggest that you check with the Public Utilities Commission in your state for an opinion before using this product.