



## **Installation Checklist**

**&**

## **Summary Instructions**



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# INSTALLATION CHECKLIST

## CareTaker IMPORTANT NOTICE

If you plan to use the CareTaker as a reporting system to the Central Station, the CareTaker CPU requires both a Digital Communicator Module, Part # 57-256, and a Voice Siren Driver Module, Part # 57-257 for proper operation. Without the Voice Siren Driver Module, the CareTaker will not communicate to the Central Station.

## PRE-INSTALLATION CHECKLIST

- ☐ Ground yourself by holding the CPU cabinet with one hand when operating the switches on the CPU board or installing modules or programming cables.
- ☐ Choose a central location for the CPU, avoiding duct work, breaker panels, and other causes of poor reception.
- ☐ Check telephones to be sure they are true Touch Tone® type.
- ☐ Check the spare pair of telephone wires (Black and Yellow) for availability if you plan to use Phone Jack Sirens. A voltmeter should show no voltage when connected across them or to ground.

## POWER TRANSFORMER CHECKLIST

- ☐ Did you run proper gauge wire to the transformer: 22AWG for up to 15 feet, 18 gauge for 16 to 50 feet?
- ☐ Is the transformer plugged into a non switched outlet and secured to the center outlet screw?

## PROGRAMMING CHECKLIST

- ☐ Did you clear the memory after power-up by pressing the reset button?
- ☐ Did you turn the program switch off and *remove the pigtail* when finished programming?

## WIRELESS PASSIVE INFRARED MOTION SENSOR CHECKLIST

- ☐ Are you sure no Motion Sensors are aimed at any doors or Touchpads?
- ☐ Did you adjust the Motion Sensor to avoid windows, heating/AC vents, and pets?
- ☐ Is the Motion Sensor jumper in the Radio Mode position, not the LED Mode?

## GENERAL WIRELESS CHECKLIST

- ☐ Did you replace all covers on wireless sensors?
- ☐ Did you inform your customer of the range limitations of wireless Touchpads?
- ☐ Did you keep wiring runs to Wireless Door/Window Sensors under 25 feet and use twisted pair wire?

## FINAL CHECKLIST

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Test communications     | <input type="checkbox"/> Test arming levels       | <input type="checkbox"/> Test "HELP"           |
| <input type="checkbox"/> Test Chime feature      | <input type="checkbox"/> Test Alarm memory        | <input type="checkbox"/> Test Indirect Bypass  |
| <input type="checkbox"/> Test Duress code        | <input type="checkbox"/> Test Direct Bypass       | <input type="checkbox"/> Test Wireless Sensors |
| <input type="checkbox"/> Test Wireless Touchpads | <input type="checkbox"/> Test Speaker/Annunciator | <input type="checkbox"/> Test Hardwire Sensors |
| <input type="checkbox"/> Test Hardwire Touchpad  | <input type="checkbox"/> Test Energy Saver        | <input type="checkbox"/> Test Light Controls   |

# SUMMARY INSTRUCTIONS

## BASIC CUSTOMER COMMANDS

Note: "CODE" refers to customer 4 digit customer access code, \* and # are touch tone telephone keys.

ENTER	THIS ACTION TAKES PLACE
* #	SHORT STATUS - Tells you current arming level & identifies any open sensors.
* CODE - 1	OFF - Disarms system. Cancels any alarms.
* CODE - 2	STAY - Turns perimeter burglary protection on. Delays activated.
* CODE - 3	AWAY - Turns perimeter and interior burglary protection on. Delays activated.
*****	PANIC - From any phone push * six times and a police panic alarm will activate.

During delay times, the customer can also push one additional number to activate additional features. For example after arming the system to the desired level the user can press any or all of the following numbers to activate optional features.

ENTER	THIS ACTION TAKES PLACE
6	Turns entry delays to "instant".
7 7	Double sevens (77) turns lights on for 5 minutes (instead of just during exit delay).
0	Turns Energy Saver feature on (if it is part of the system).
4	To Bypass any open sensor.

## ADVANCED CUSTOMER COMMANDS

For those who want to take advantage of CareTakers more advanced features, the following commands are also available.

ENTER	THIS ACTION TAKES PLACE
* CODE - 2 - 4	<i>Forced bypass.</i> Arms to level 2, any open sensors will be bypassed.
* CODE - 3 - 4	<i>Forced bypass.</i> Arms to level 3, any open sensors will be bypassed.
* CODE - 7	<i>Toggles selected lights</i> on for five minutes. Lights will also turn on during delay times. During alarms, lights turn on and stay on to serve as an "alarm memory", indicating an alarm has activated during the current arming period. (Alarm memory lights can only be turned off by changing the protection level, not by * CODE - 7).
* CODE - 8	<i>Central station test.</i> Works only if telephone number is programmed. The CPU's green LED will flash until the central station receives the test.
* CODE - 9	<i>Sensor Test.</i> Gives beep on receiving sensor data followed by sensor number. Press # for list of sensors not tested. Put phone back on hook to end the test.
* CODE - # - 1	<i>Detailed Status.</i> Lists troubles, open sensors, status of AC power, backup battery, and alarm memory. Also gives current temperature and energy saver status (if used).
* CODE - # - 2	<i>Chime.</i> Toggles chime feature on or off.
* CODE - # - 3	<i>Energy saver low temperature set point.</i> (40°F to 97°F)
* CODE - # - 4	<i>Energy saver high temperature set point.</i> (41°F to 98°F)
* CODE - # - 5	<i>Alarm History Memory.</i> States last four alarms, most recent first.
* CODE - # - 6	<i>Local Disable.</i> Disables telephone control of the on-premise CareTaker temporarily (until hang up) so you can call an off-premise CareTaker and operate it remotely.
* CODE - # - 8	<i>Access Code Change.</i> Allows the user to change the code of the system, by entering new four digit code. For example: * 1234 # 8 4321 would change the code from 1234 to 4321.
* CODE - 4 - nn	<i>Bypass Sensor nn.</i> (All bypassed sensors clear when arming level is changed)

Note: "TROUBLE CODE 00" indicates a cleared memory condition.

Note: "ALARM IS BYPASSED" indicates call to central station was aborted.

## SERVICE TECHNICIAN COMMANDS

By using the four digit Service Code, the alarm company can remotely perform a limited system status check, assist the user in non-security matters, set energy saver limits and toggle the chime feature.

### ENTER

\* SERV - 4 - nn

### THIS ACTION TAKES PLACE

Bypass sensor nn. (Only if sensor caused an alarm during the current arming period, and only the first sensor in Alarm Memory.)

\* SERV - # - 1

Status of alarm system including all troubles (current arming level not given).

\* SERV - # - 5

Service Alarm History - lists last 4 alarms, most recent first. Enter # to clear.

\* SERV - 8

Phone Test. Initiates a central station communication test.

\* SERV - # - 9

Dealer Sensor Test (on premise only) - beeps with each sensor data round as signal strength indication. Speakers identify sensors tested by number.

## PROGRAMMING

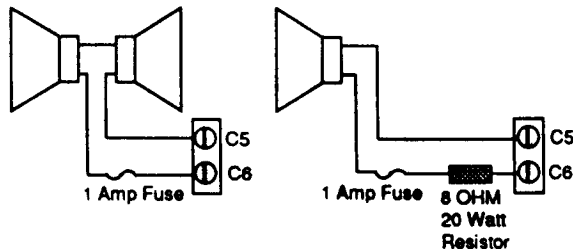
To enter the program mode, use the Program Memory Switch or enter the following from any on or off premise phone: \* - customer code - # - 7 - service code. NOTE: If you enter Program Memory via the switch, you *must* have a sensor connected for the CPU to program when entering sensors into levels 05-16. Entering Program Memory with the service code does not require connecting a wireless sensor to the CPU for programming levels 05-16.

PROGRAM LEVEL	ITEM TO BE PROGRAMMED	DEFAULT
*01	Access Code listing. (See advanced customer instructions to program.)	* 1234
*02	Duress Code (change last two digits of access code). Enter 00 to turn off. NOTE: Duress alarms are not recorded in any alarm memory.	off
*03	Entry delay time. 06-58 seconds.	30 seconds
*04	Exit time delay. 06-58 seconds.	30 seconds
	<ul style="list-style-type: none"> <li>No sensor numbers are preprogrammed into sensor categories 05-16, their assignment is up to you.</li> <li>To enter a sensor number into a programming level, simply enter the sensor number.</li> <li>To delete a sensor number from a programming level push # then the sensor number.</li> <li>All sensor entries must be <i>two digits</i>, for example sensor 7 must be entered as a 07.</li> <li>You <i>cannot</i> assign a sensor number to more than one program level.</li> <li>Any number of sensors, up to the 30 the system can handle, can be assigned to any program level.</li> </ul>	
*05	Fire sensor numbers.	none
*06	Exterior instant burglary sensors.	none
*07	Exterior delayed burglary sensors.	none
*08	Interior burglary sensors.	none
*09	Interior motion detectors. Instant, however will honor a delay.	none
*10	Interior motion detectors. Will initiate a delay if tripped.	none
*11	Auxiliary alarms - unsupervised-N/O-rapid low level alarm stops on CS kissoff	none
*12	Auxiliary alarms. Same as *11 except supervised	none
*13	Audible Panic (HELP) alarms - supervised	none
*14	Audible Panic (HELP) alarms - unsupervised(For Portable Panic Buttons)	none
*15	Silent Panic (HELP) alarms - unsupervised(For Portable Panic Buttons)	none
*16	24 hour (special) intrusion sensors, always active unless bypassed.	none
*17	Off = trouble alert occurs once. On = Alert restarts every 12 hours. (Toggles)	off
*18	To program Wireless touchpad house code.	none
*19	Off = No transmitter lockout delay. On = Delay on. (Toggles)	off
*20	1st central station phone number. Follow last digit with a #.	off
*21	2nd phone number, dialed if 1st is not reached. Follow last digit with #.	off
*22	Account number. Three digits- <i>nnn</i> # or four digits- <i>nnnn</i> .	000
*23	Freeze alarm temperature activation point. (01°F-59°F; 00 turns feature off.)	42° F
*24	Panic alarm from telephone. On/Off	on
*25	Siren timeout. 01 - 20 minutes.	4 minutes
*26	Service Code - enter 4 digits	off
*27	Call, let ring twice, hang up, wait 10 sec., call back for panel answer.	on
*28	Communicator Speed (10 or 20 baud)	10 baud
*29	Touch Tone Sensitivity (on = 100ms, off = 25ms)	100ms
*99	To leave program mode if you entered program mode from a phone.	

## SIREN SPEAKER NOTE

In some cases, the CareTaker® may require a 16 Ohm load on terminals C5 and C6 to insure communication to an ITI CS-4000. This can be accomplished in two ways:

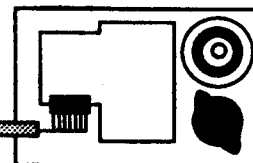
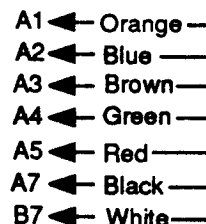
1. Install two 8 Ohm speakers in series, or
2. Install an 8 Ohm speaker in series with an 8 Ohm, 20 Watt resistor (Radio Shack part #271-120 or equivalent.)



**Note:** Telephone voice messages will be temporarily interrupted during Central Station transmission time. The user must depend on the status beeps for arming level information.

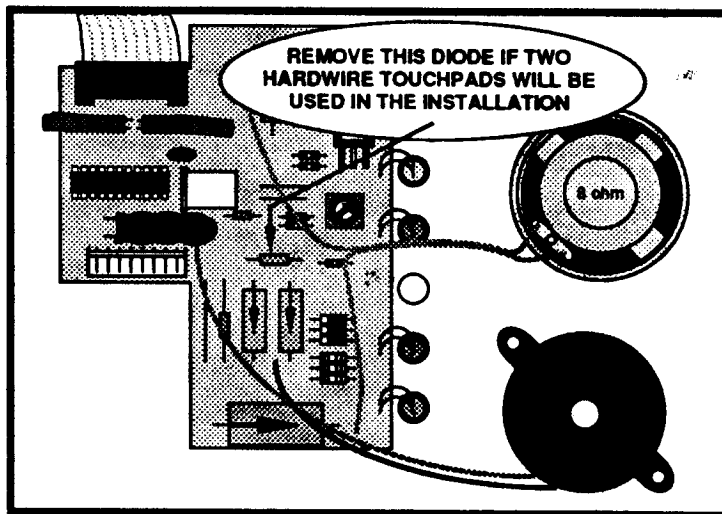
## HARDWIRE TOUCHPAD NOTE

Touchpads may be installed using 6 conductor cable runs (or 7 conductor if Energy Saver feature is used). The unit requires 30 ma of continuous current and 30 ma of siren current. The maximum continuous current allowed by the CPU is 110 ma. Wire the unit as shown. If you are not installing an Energy Saver Module, the Black wire is not used.



Two is the maximum number of HTD's that can be connected to a single CareTaker. If your application requires the installation of two, a diode on both HTD's must be cut in order for them to function properly. Before connecting the HTD to the CPU, carefully remove the diode, as shown, by cutting at least one side. **NOTE:** Once the diode has been removed, the Touchpad will function normally and the piezo siren will also work. However, there will be no voice on alarm from the Hardwire Touchpad speakers.

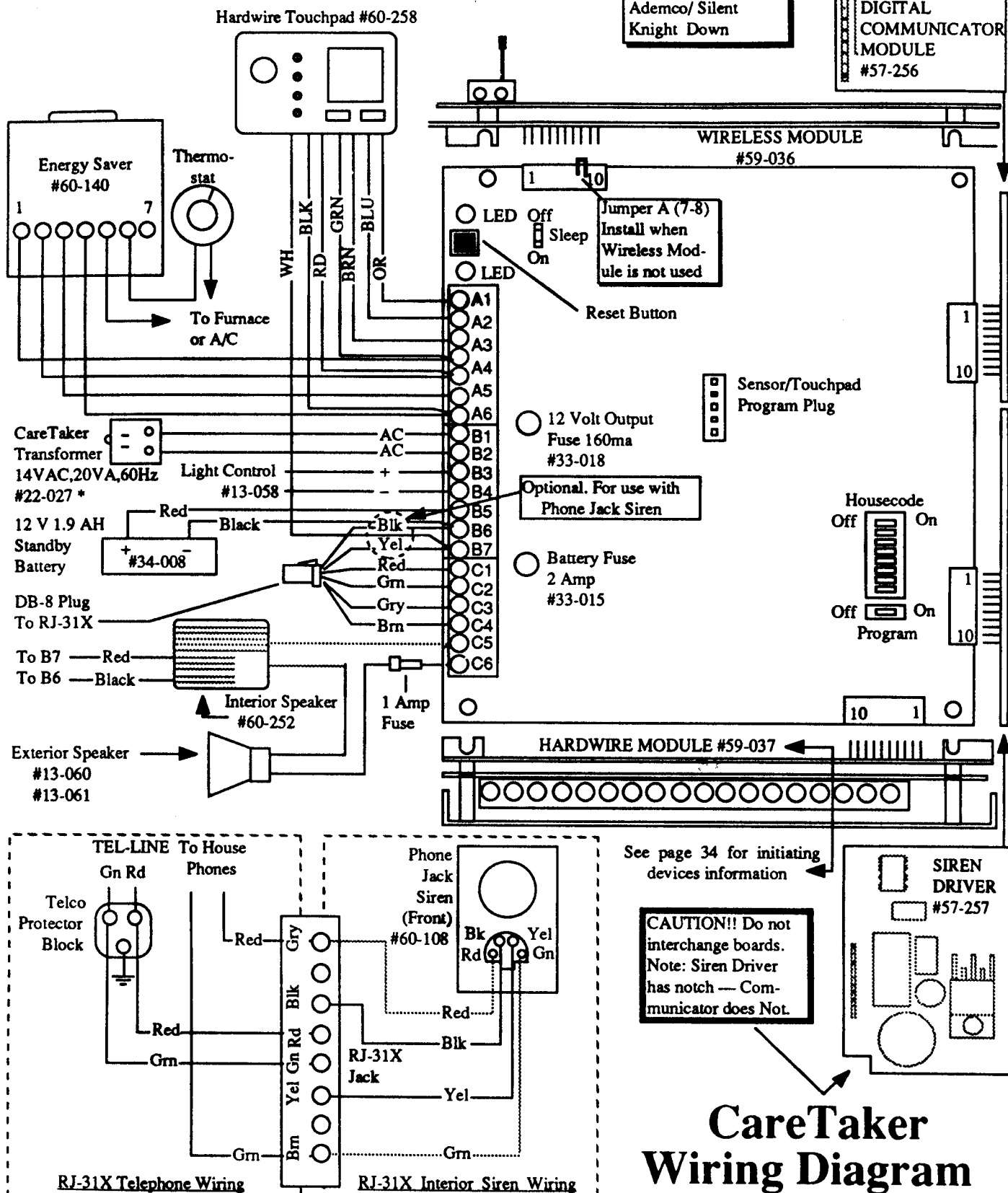
**Note:** Only one (1) HTD is to be used in a U.L. installation.



If you are using two HTD's, they must be wired in parallel to the CareTaker CPU. In other words, each HTD must be directly wired to the terminals on the CPU using a 6 conductor cable (7 conductor if Energy Saver feature is being used). Remember that each HTD requires 30 mA of continuous current and 30 mA of siren current. The maximum currents allowed by the CPU are 110 mA continuous and 150 mA of siren current.



**CAUTION!!**  
TOUCH AN EXPOSED METAL SURFACE  
ON THE CABINET BEFORE TOUCHING  
ANY COMPONENTS.



## CareTaker Wiring Diagram

Note: One Smoke Detector required  
for U.L. installation #60-106

\* In Canada use Magnetic Consultants Transformer # 14V 20VA, CSA file # 47968-2

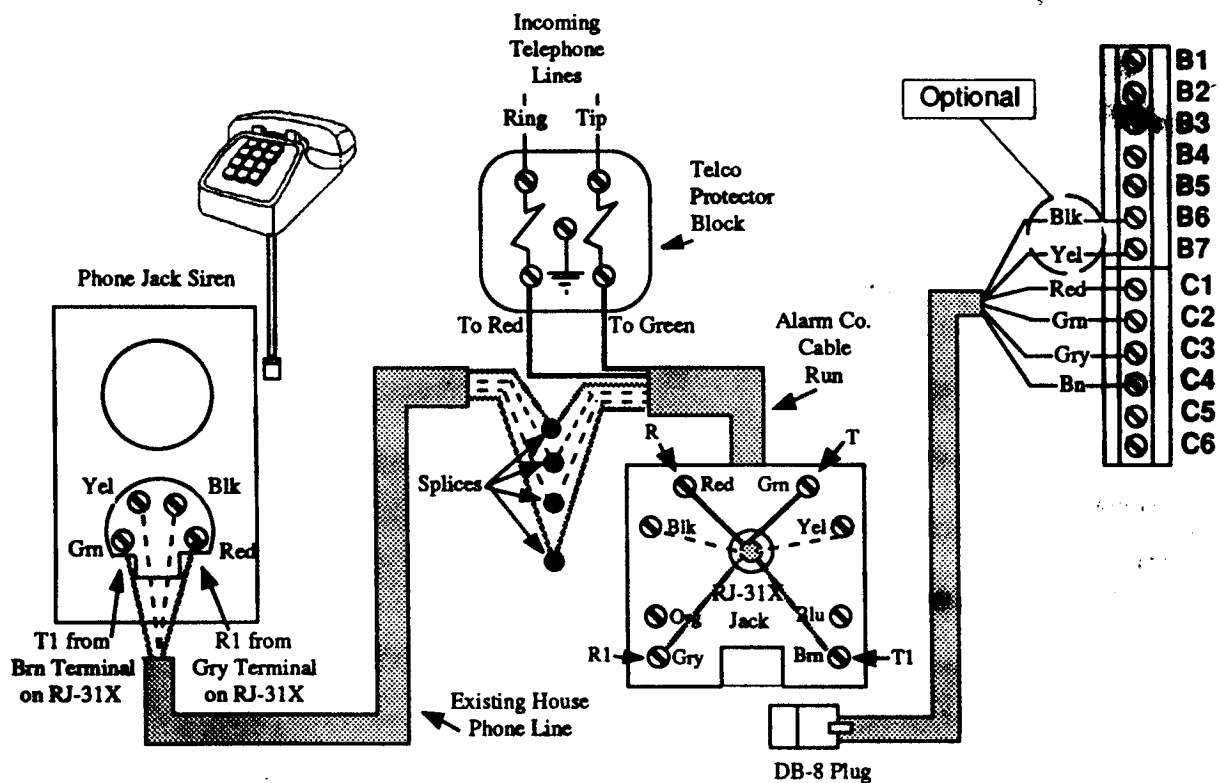
## RJ-31X INSTALLATION

The CareTaker phone line connections for proper line seizure are the same as for any other alarm panel. Study the diagram below before attempting the hook up. This will minimize phone line down time.

Locate the incoming telephone line protector block and run a 4 conductor cable from there, to the RJ-31X jack. Run a 6 conductor cable if you plan to install Phone Jack Sirens. The RJ-31X jack should be located within 5 feet of the CPU.

1. Connect your cable to the jack as shown below.
2. Make the necessary connections at the protector block. All splices should be weatherproof and insulated
3. Polarity **MUST** be observed.
4. If Phone Jack Sirens are to be installed, connect the remaining two wires of your 6 conductor cable to an unused pair of wires in the existing phone cable.
5. When all wiring is completed, **check all phones** for proper operation with the DB-8 plug disconnected from the RJ-31X jack. Incorrect wiring and reversed polarity are common mistakes. See Troubleshooting and Testing section of your CareTaker Installation Manual if you experience any problems.

**IMPORTANT!** CareTaker is constantly checking the phone line. Failure to wire for proper line seizure could result in your customer complaining of a "faint clicking" on the line during phone conversations. Proper line seizure means the CPU is ahead of all phones on the line!



## ITI Programmer (SX-V, Caretaker, Commander Panels only) (M. Leuck)

Press ON, programmer will say HELLO, if long tone sounds its connected backwards  
Connect to sensor, press READ, current sensor programming will show

### 1. House Code

To change press HOUSE CODE (number will flash)  
enter new 3 digit house code then press ENTER, screen will say OK

### 2. Sensor (Zone) Number

Press SENSOR NUMBER, (number will flash), Enter 2-digit zone number  
then press ENTER, screen will show OK

### 3. Sensor Type

Press SENSOR TYPE (number will flash), Press key relating to type of  
sensor (1 = Door/Window Sensor etc) then press ENTER, screen will say OK

If sensor says SLEEP the sensor battery is low and needs replaced

Disconnect from sensor when done

**Caretaker** - Wiring "Pigtail" must be removed and connected directly to board, the programmer cannot be used on this panel

**SX-V** - Programmer must be put in Octal format by pressing "Sensor Number" key twice  
(not needed on "SX-V only" programmers)

Decimal to Octal Zone Conversion (get out the calculator)

	Zones																							
SX-V Panel	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17	20	21	22	23	24	25	26	27	30
Programmer	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

