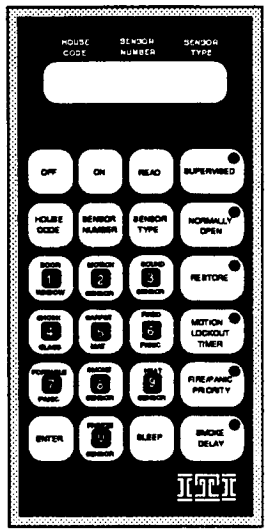
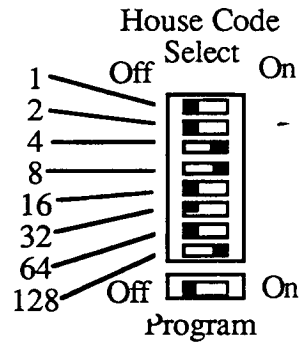
OPTIONAL PROGRAMMING WITH THE SX-V PROGRAMMER

The SX-V programmer can be used to read or program House Codes and sensor numbers from or into sensors or Wireless Touchpads. This is useful for trouble-shooting or when a device must be re-programmed and bringing it to the CPU is not practical. The procedure uses a different numbering system for sensors and House Code selection than the SX-V. Converting from the SX-V protocol to the **CareTaker** is simple, using the explanations that follow. The terms "binary, octal and decimal" are included but understanding them is not necessary to use the programmer with the **CareTaker**.



Reading the House Code and sensor number is done by connecting the programmer to the sensor with the "pigtail" and pressing READ.

The **House Code** reading on the programmer is an ordinary, every-day **decimal** number between 1 and 254. For this to be of any value we must be able to relate it to the House Code setting on the DIP switches on the CPU PC board. A little arithmetic is necessary here as the switch settings are a **binary** (base 2) representation of the number. Each switch represents a decimal value as shown. Simply adding the values of all of the switches in the OFF position will yield the **decimal** number which the programmer reads.



Example: As shown, the 1,2,16,32 and 64 switches are all turned OFF. The House Code would be the sum of the OFF values 1+2+16+32+64 = **115**. Remember that all switches OFF (House Code number 255) and all switches ON (House Code number 0) are settings that **won't work!**

The **sensor** number that the programmer reads is an **octal** (base 8) number whereas **CareTaker** sensors are numbered in the ordinary **decimal** fashion. The chart shows how to convert the programmer reading to or from the **CareTaker** sensor number.

Programmer	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17
CareTaker	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Programmer	20	21	22	23	24	25	26	27	30	31	32	33	34	35	36
CareTaker	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

CareTaker SENSOR TYPE CONVERSION CHART

PROGRAMMER OPTION LED's	CareTaker PROGRAMMING GROUPS 05	06	07	08	09	10	11	12	13	14	15	16
SUPERVISED	X	X	X	X	X	X	X	X	X	X	X	X
NORMALLY OPEN	X				X	X	X	X	X	X	X	
RESTORE	X	X	X	X			X	X				X
MOTION LOCKOUT												
FIRE/PANIC PRIORITY	X								X	X	X	
SMOKE DELAY	X											
X = LED ON	8	1	1	1	2	2	0	0	7	7	7	1

SX-V PROGRAMMER SENSOR TYPE KEY ENTRY

WIRELESS SENSORS

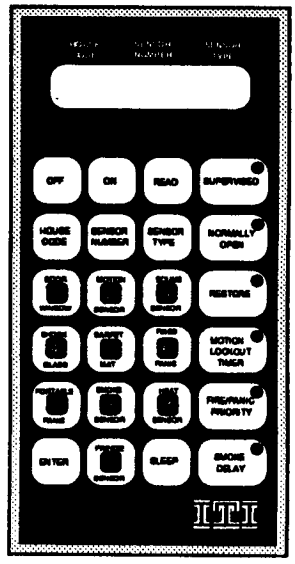
CAUTION

You must be free of static electricity before handling and installing any sensor. Discharge yourself of static electricity by first touching a metallic surface. Door/Window and Shock sensor circuit boards should be handled only by the battery holder or the edges of the board. Once the board is removed from the base, place it in the sensor cover until you have mounted the base and are ready to re-install the board onto the base.

MOUNTING

Follow the instructions included with each sensor. When mounting Door/Window and Shock sensor bases, be sure to use screws with heads that won't make contact with the bottom side of the sensor's circuit board. Do not program any sensors until all handling and mounting has been completed.

PROGRAMMING



RF COMMANDER security systems allow a maximum of 8 protection sensors (60-360) or 17 protection sensors (60-419and 60-478) to be used. The list below describes the available sensor numbers and their function. Programming sensors requires use of the Handheld Programmer. When entering sensor numbers 00-09, the programmer requires only the single digit form of the number.

Sensor Number	Sensor Type	Sensor Function
00	0	Auxiliary (Freeze Sensor)
01-03	8/9	Smoke/Heat Sensors
04-05	1	Exit/Entry Delay Doors
06-10	1	Perimeter Instant
11	1	Interior Instant Door
12-13	2	Interior Instant PIR/Sound
14	7	Audible Police Panic (Unsupervised)
15	7	Silent Police Panic (Unsupervised)
16	7	Audible Auxiliary Panic (Unsupervised)

Early Version Programmer: This version programmer does not accept 8s or 9s (decimal) for sensor number entries. Therefore, the conversion chart below must be used when programming sensor numbers 08-16.

Enter Into Programmer:	10	11	12	13	14	15	16	17	20
To Get RF Commander:	08	09	10	11	12	13	14	15	16

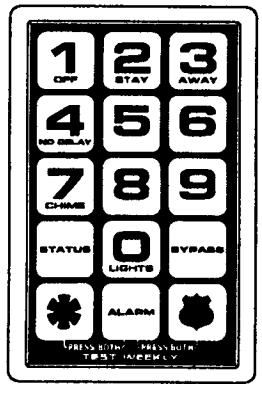
New Version Programmer (ITI Part No. 60-371) This programmer looks and operates the same as the early version described above except it does the Octal to Decimal conversion for you. *This programmer must be set to the decimal mode when programming sensors to be used with the RF Commander.* Read the operating instructions on the back of the programmer for complete instructions.

If any sensor fails to program, proceed to the troubleshooting section of this manual (page 26).

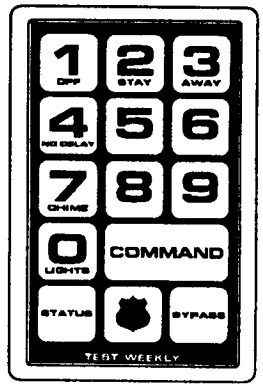
WIRELESS TOUCHPADS

There are two versions of Handheld Wireless Touchpads available for the RF COMMANDER. Follow the programming instructions included with each touchpad. If any touchpad fails to program, proceed to the troubleshooting section of this manual (page 26).

ITI Part No. 60-389*



ITI Part No. 60-372**



The model 60-389 can be used in U.L. Listed applications.

** The model 60-372 is not intended for use in U.L. Listed applications.