

TECHNICAL BULLETIN

TITLE: OPERATING GARAGE DOOR RECEIVER WITH SYSTEM VII FOB

NUMBER: 96-06

DATE: 01-29-96

EQUIPMENT: SYSTEM VII

MODEL: H.O.M VERSION 2.0

PURPOSE: TO PROVIDE INFORMATION CONCERNING THE INSTALLATION AND PROGRAMMING OF THE SYSTEM VII FOB TO OPERATE GARAGE DOOR RECEIVERS.

ACTION REQUIRED: ROUTINE

DETAIL INFORMATION:

FIGURE 1. SHOWS THE OPERATION OF THE SYSTEM VII HARDWIRE OUTPUT MODULE (H.O.M.) WHEN IT IS CONNECTED TO THE COSTUMER'S GARAGE DOOR RECEIVER.

FIGURE 2. SHOWS THE WIRING DIAGRAM OF THE COMPONENTS CONNECTED TO THE SYSTEM VII CPU TO OPERATE THE GARAGE DOOR.

NOTE: THE PROGRAMMING OF THE H.O. M. WITH THE VERSION 2. SOFTWARE IS DIFFERENT FROM PREVIOUS VERSIONS. FOLLOW THE INSTRUCTIONS IN THIS TECHNICAL BULLETIN FOR BEST RESULTS.

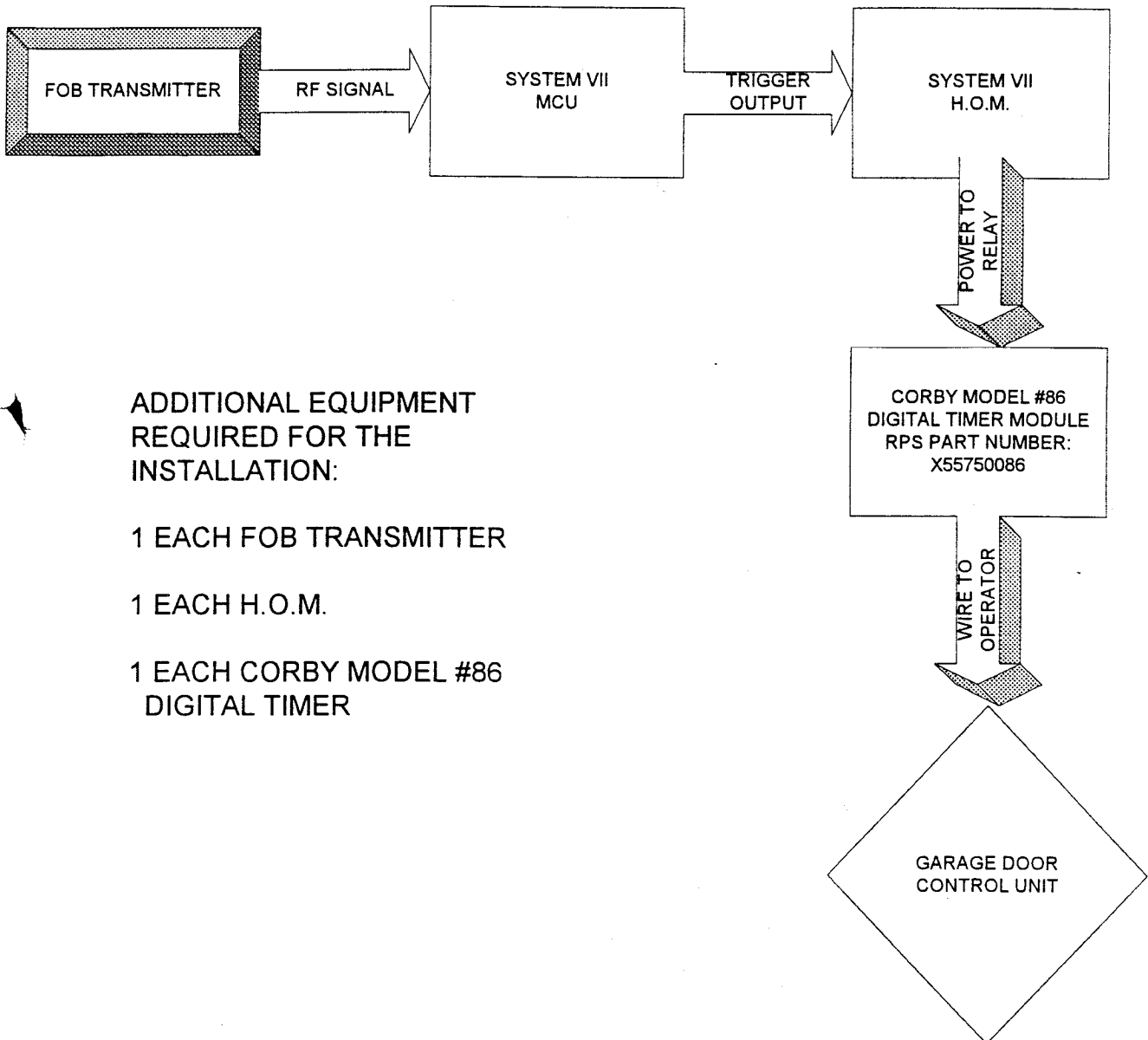
EQUIPMENT RQUIRED:

1. SYSTEM VII H.O.M.
2. SYSTEM VII FOB, 2 OR 4-BUTTON
3. CORBY DIGITAL TIMER MODEL #86
RPS PART NUMBER X55750086

CAUTION: WHEN PROGRAMMING A FOB INTO THE SYSTEM VII CPU AS A SENSOR, THE FOB WILL USE UP ONE SENSOR NUMBER FROM THE TOTAL AVAILABLE.

OPERATING GARAGE
DOOR CONTROL UNIT
WITH SYSTEM VII FOB

FIGURE 1.

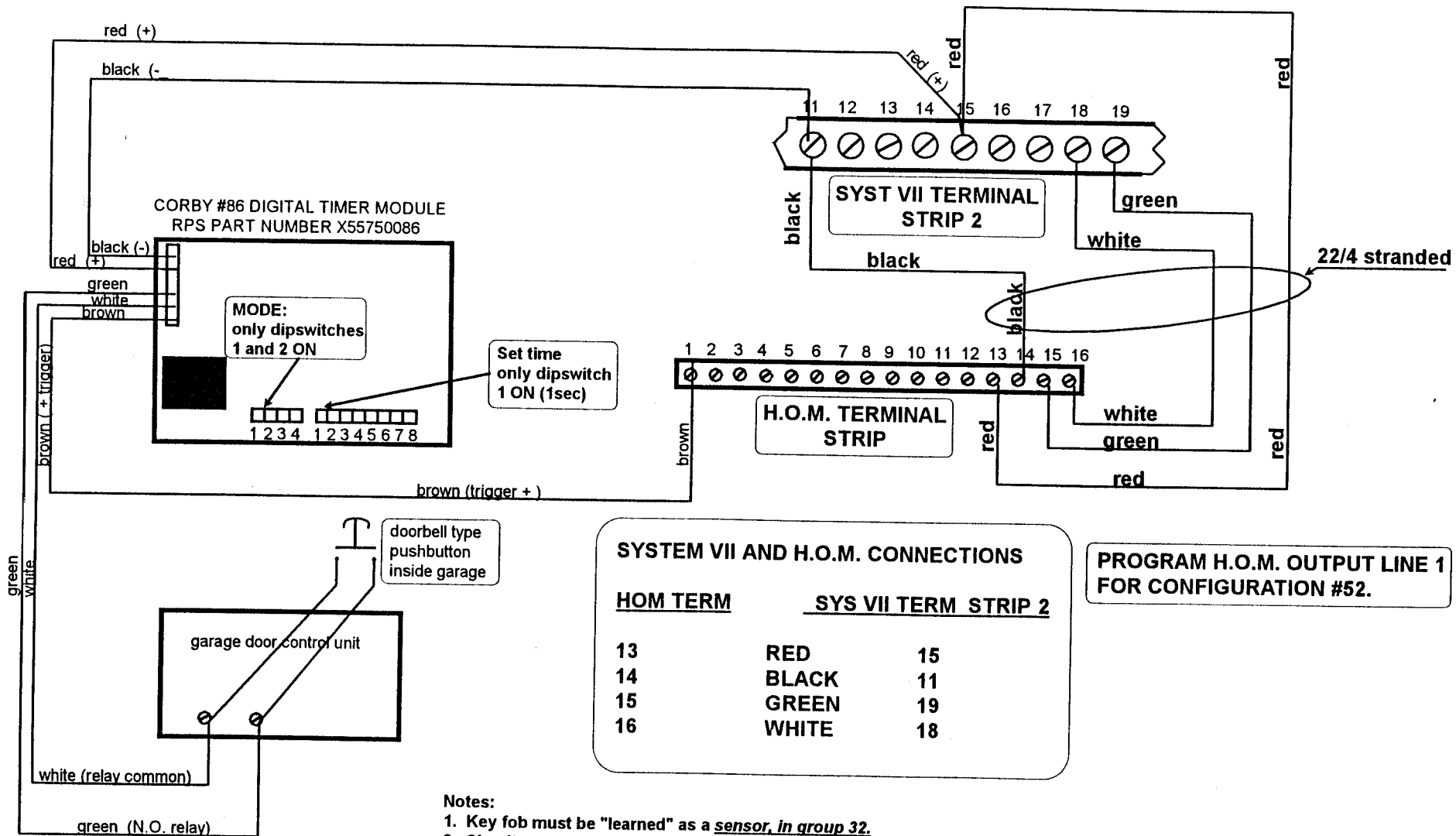


ADDITIONAL EQUIPMENT
REQUIRED FOR THE
INSTALLATION:

- 1 EACH FOB TRANSMITTER
- 1 EACH H.O.M.
- 1 EACH CORBY MODEL #86
DIGITAL TIMER

GARAGE DOOR OPENER USING KEYFOB SYSTEM VII CPU WITH HARDWIRE OUTPUT MODULE AND RELAY OUTPUT CONNECTIONS

FIGURE 2.



<u>HOM TERM</u>	COLOR	<u>SYS VII TERM STRIP 2</u>
13	RED	15
14	BLACK	11
15	GREEN	19
16	WHITE	18

**PROGRAM H.O.M. OUTPUT LINE 1
FOR CONFIGURATION #52.**

- Notes:**
1. Key fob must be "learned" as a *sensor, in group 32.*
 2. Simultaneously pressing "lock" and "unlock" symbol keys activates garage door.

PROGRAMMING INSTRUCTIONS FOR THE
HARDWIRE OUTPUT MODULE

- (1) Label on Microprocessor in HOM reads:

75-311
67-031 V 2.0
08/20/93

You must use these Programming Instructions ONLY with V 2.0

- (2) Programming is DIFFERENT from previous software versions. Make sure that the HOM you want to use has this later version.

PROGRAMMING

- [1] Wire HOM to MCU.
- [2] Power-up MCU.
- [3] Remove Jumper Clip from HOM.
- [4] Connect Programmer to HOM.
- [5] Press Programmer ON Button: Should read [HELLO] with NO DECIMAL POINT to the right of "Hello". If it HAS A DECIMAL POINT, the Programmer must be swapped to a newer one with more recent internal software.
- [6] Press READ button. If the red LED on the HOM is lit, press READ Button again. The LED must be off to start programming.
--Ignore the Programmer display at this time.
- [7] Press the (Unit #) HOUSE CODE Button. Select the Hardwire Buss Unit ID Number so as to not be the same as any other Hardwire Buss device in the system.
--If you take too long to make a selection, the Programmer may automatically turn itself off (battery saver mode). If this happens, you must start over from the beginning at Step #5 ("Press Programmer ON Button").
The number you entered for the Unit ID Number will jump into the Programmer Display and will be flashing.
- [8] Press the SENSOR NUMBER Button. The display will read [OCL] for "Octal" -or- [DEC] for "Decimal", and the SENSOR NUMBER DISPLAY will be flashing. Press SENSOR NUMBER to display [DEC].
--Press the 1 Button to select the Caretaker Plus (System 7) Presets. The "1" you entered should now be flashing.
- [9] Press the ENTER Button. The Programmer should read [DONE].
- [10] Press the READ Button. The red LED on the HOM should not be lit. If it is lit, press the READ Button again. When the LED is off the Programmer will indicate the Unit ID Number you programmed in the "Unit #/House Code" display position, and read [1] in the "Sensor Number" display position (Caretaker Plus/System 7 set). A [-] should appear in the "Sensor Type" display position. IF IT DOES NOT, YOU HAVE INCORRECTLY PROGRAMMED ONE OR MORE OF THE PREVIOUS STEPS AND MUST START-OVER AT STEP #5 ("Press Programmer ON Button").
- [11] *****If you desire to use the STANDARD, PRESET OUTPUT CONFIGURATION as listed in the Installation Instructions packed with the HOM

Caretaker section, THEN PRESS THE PROGRAMMER OFF BUTTON NOW. It will briefly display [Bye] and then power-down. Remove the Programmer Cable from the HOM. DO NOT RE-INSTALL THE HOM JUMPER CLIP IF THE STANDARD, PRESET OUTPUT CONFIGURATION WILL BE USED.

*****If you desire to PROGRAM CUSTOM OUTPUT CONFIGURATIONS, then LEAVE THE PROGRAMMER ON, and RE-INSTALL THE JUMPER CLIP on the HOM NOW!

- [12] TO PROGRAM A CUSTOM OUTPUT LINE CONFIGURATION, press the SENSOR NUMBER Button and enter the 2-Digit Configuration Code. Your selection should flash in the "Sensor Number" section of the Programmer Display.
- [13] Now, select which Output Line you want to use for that Configuration Code you just programmed by pressing the SENSOR TYPE Button and entering 1-6 or 8. Line 7 is preset and cannot be programmed.
- [14] Press the ENTER Button now. The Programmer display should read [DONE].
--You must press ENTER after programming each Output Line --
you cannot do them all and then ENTER them all at one time!
You must see [DONE] after each line is programmed.
- [15] Press the READ Button. The Programmer will display the Output Line number just programmed in the right-hand section of the Display under "Sensor Type". The 2-digit Configuration Code will be displayed under "Sensor Number". Ignore the number under "Unit #/House Code".
- [16] You can step-through all of the 7 programmable lines by pressing the READ Button repeatedly.
- [17] When finished programming/reviewing, press the OFF Button on the Programmer and disconnect the cable.

*****To change the Unit ID Code, power-up the MCU, remove the Jumper Clip from the HOM, connect the Programmer as before, press the Programmer ON Button, and see the [HELLO] display. Press the READ button until the red LED is lit and the Programmer display reads [SLEEP]. Then press READ one more time. The red LED on the HOM should be off, and the Programmer Display will read the flashing present Unit ID Code in the "Unit #/House Code" section, [1] for the Caretaker Plus Programming Presets in the "Sensor Number" section, and a dash [-] in the right-hand "Sensor Type" section. Press the UNIT #/HOUSE CODE Button. The present Unit ID Number will be flashing. Press the number of the New Unit ID Number desired. It should pop into the Display and flash. Now press the ENTER Button. The Display should indicate [DONE]. Check your work by repeating these steps, but do not press the UNIT#/HOUSE CODE Button, do not enter a new Unit ID Code, and do not press the ENTER Button. Instead, verify that the Unit ID Code is correct, and press the OFF Button. Remove the Programmer cable from the HOM. Re-install the Jumper Clip on the HOM unless the STANDARD, PRESET OUTPUT CONFIGURATIONS ARE USED. The Jumper Clip must always be removed whenever the Unit ID Number and/or Caretaker Plus Programming Presets are entered or the programmed information will not be correct.