CP22 Chip Installation to AP22 Time Switch

Use command 22 to record the master group, group, and location number. See instruction sheet.

MG=   G=   Loc=

Verify the board has a CP22 version chip in it. You do this with command 99. That is, hitting **9**, **9**, and *****, in that order. If it does not have a CP22 chip, you will have to install one and program it. The following steps will help you install and test a new chip, if needed.

1.   Power down the AP22 and remove it from the cabinet if possible.

2.   Remove the cover from the AP22 and lay it aside. There is no reason to remove the communication cable.

3.   Remove the four Phillips screws from the corners of the keypad. You may have to hold the white plastic posts underneath the screws while removing them.

4.   Using a chip puller or pick, pull the processor chip out of its socket carefully. It is the largest chip on the board. Notice how the notch molded into the chip is facing the left side of the board. If you are using a pick, be careful that you do not get it under the socket as you can seriously damage the board.

5.   Locate the notch on the new chip. This notch should be placed in the same position shown by the white outline on the circuit board.

6.   Take the new chip and plug it into the socket. You may have to gently rock the chip as you insert it. Inspect both rows of pins to see that none of them have collapsed during installation.

7.   Secure the keyboard pad in place with the screws you removed in Step 5.

8.   Replace the cover, and apply power to the AP22.

9.   Validate that the new chip is running by entering command 99 on the main screen, again pressing **9**, **9**, and *****, in that order. The version of the chip should be displayed.

10.   Address the time switch using the command 22. See [Appendix A](#) instruction sheet.

11.   Verify the date and time are correct on the main screen.

12.   Use Command 33 to assure the baud rate is set to 2400.

13.   Use Command 31 to set the time zone to -6 for central time.

14.   If you are using CPR4 Loader you can validate if the programming is correct. Otherwise, the central software should validate the programming before the next operation cycle.

Appendix A

Addressing the AP22 Time Switch

Power-up the AP22 time switch and select a master group, group, and location number. This is done using command code 22 as follows:

Hit the Exit button twice to put the AP22 at the main menu. Next, press **2**, then **2** again, and hit *****. Say, for example, your time switch is Master Group 1, Group 6, and Location 1. The AP22 cursor should be flashing by Mgrp on the screen. Press **0**, **1**, followed by *****, then **0**, **1**, followed by ***** again. The cursor should have moved over to the Grp section. Press **0**, **6**, then ***** to select Group 6. The location number will be entered in the same way.

To check your programming, press Exit to return to the main menu. Use command code 22, again, to validate you have entered the master group, group, and location numbers correctly.