

Operating Instructions

A1200 Secondary Clock

"Read dip switch numbers as marked on the pcb rather than what is marked on the switch!"

For the A1200 to operate in the 3 wire synchronous or 59th minute correction scheme the dip switches must be set to the following positions;

Switch R should be in the ON (down) position FOR ALL SCHEMES.

Switch 1 should be in the ON (down) position

Switch 2-6 should be in the OFF position

For ***National Time & Rauland 2400 series*** correction scheme;

Switch 2 ON (down) position

Switch 1, 3-6 OFF position

For ***Faraday 2300 series 58th minute, Honeywell ST402A series*** correction scheme;

Switch 3 ON (down) position

Switch 1-2, 4-6 off position

The ON position is marked on the PCB. Looking at the PCB positioned with the battery at the top and dip switches to the bottom, ON is to the right, OFF is to the left. Switch numbers are marked on the right side of PCB.

Clocks were shipped with the hands set to 2:59:04. If the hands have moved either:

a) reposition hands to 2:59:04 (prior to applying power)

b) reset the clock - (synchronizes hand to the internal time of processor)

Reset procedure

1. Move **switch "R"** to the off position with power applied.(clock will stop running)
2. Set the hands of the A1200 to read **2:59:04**. (The accuracy of the clock is determined by this setting.) This synchronizes the hands to the electronics.
3. Return **switch "R"** to the on position. (The clock will start running.)

Operating Parameters.

- a) The A1200 will stop and wait for time to catch up when;
 1. For an hourly correction, the time to advance to reach new time command is more than 53 minutes. (7 minutes).
 2. For a 12 hour correction, the time to advance to reach the new time is 11 hours, 40 minutes or more, (20 minutes or less).
- b) Correction pulses less than 5 seconds and more than 21 seconds are ignored.
- c) The push button switch advances hands at a fast rate.
- d) **Do not move the hands** other than described in the reset procedure. This will un-synchronize the hands, and the clock will not indicate the correct time after correction is received from a master clock.
- e) The A1200 Adds the amount of time spent in fast travel mode to the end of correction cycle.
Result: Clock will come out of correction (fast travel mode) after the 59th minute reading the correct time..
- f) The clock must be reset if the coin battery has been removed with no power applied. This battery keeps the memory alive during power outages. The clock will not work properly without a battery.