"FAST CLOCK" SYSTEM
INSTALLATION INSTRUCTIONS

MODEL # FC-6 CLOCK CONTROLLER
To install the Controller unit, cut or create an opening 4 3/4 inches wide by 2 7/8 inches high. Feed the wall transformer through this opening, then fasten the unit with four #4 wood, sheet metal, or machine screws. Plug in the transformer, then select RUN to test the local operation. At this point the 1 sec. LED should be flashing. Select each time ratio and notice that the LED flash rate changes for each ratio. Each flash represents one fast second in the selected ratio. Now select the HOLD position and note that the LED stops flashing, which indicates that the time is not advancing. Unplug the transformer in preparation to connect the remote clock units.

Observe the back of the controller and note two groups of wire terminal blocks mounted on the printed circuit board (PCB). There is a group of 2 terminals marked 1 and 2, plus a group of 3 terminals, marked 1, 2, & 3.

To wire your remote clock units, 22 gauge or larger twisted pair stranded wire must be used. If you do NOT have the #RT-1 Real Time Option installed in your remote clock units, the back of the clock will have a small PCB with 2 terminals marked 1 and 2. If the #RT-1 option is installed, there will be 3 terminals marked 1, 2, and 3.

On the controller, up to 5 clocks are to be connected to terminal 1 & 2 of the small 2 lug block plus up to 5 more clocks are to be connected to terminals 1 & 2 of the larger 3 lug block. These connections can be a parallel (star) configuration OR serial (clock to clock) configuration. The end result will be each clock will have a wire from its terminal 1 to terminal 1 on the controller or terminal 1 of an adjacent remote clock, plus terminal 2 connected to terminal 2 of the controller or terminal 2 of the adjacent remote clock. If the RT-1 Real Time Option is installed, then a third wire must be connected from terminal 3 on the controller to terminal 3 of each remote clock. All of the wires that have been connected can now be routed near the 2 terminal block and then use the wire TIE to hold them in a neat bundle.

#CLK-REG Regulator Clock: To install a Regulator Clock, you must first remove the back cover, plus any packing material. To activate the pendulum, install a AA battery in the lower battery compartment, then hang the brass pendulum on the eyelet of the plastic actuator arm. Now locate the green terminal block. Route the 2 (or 3) wires from the FC-6 controller through the hole in the back cover and connect them to the terminal block. If you have the #RT-1 option, install a AA battery in the upper compartment. Replace the back cover, hang the unit & ENJOY!!

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MODEL # CLK-x REMOTE CLOCK UNITS
To install the #CLK-4x (4.5") Remote Clock Unit(s), cut or create an opening 4 3/8" wide x 4 3/8" high (or 5 3/4" high if RT-1 option) and fasten with four #4 screws. For the #CLK-6x (6.25") units, this opening should be 7" wide by 8 1/2" high. Insure that the Controller unit is unplugged, then connect the 22 gauge (or larger) twisted pair wires from terminal #1 on the controller unit to terminal #1 on the first remote clock. Repeat this process for terminals #2. Test the operation.

To install the 2nd to 5th remote clock, connect 2 wires from the closest remote to the new remote by connecting terminal #1 to #1, #2 to #2, and if the RT-1 option is installed connect #3 to #3. Total wire distance not to exceed 230 feet.

NOTE: Since there are two terminal block pairs in the FC-6 controller unit, only five remote clocks can be connected to each terminal block pair. See the diagram below. Test the operation after the addition of EACH unit. Set each clock to the same time by using the small dial on the back of the clock module or by opening the hinged bezel and turning the minute hand to the desired time.

If you have the RT-1 Real Time Option, install one AA size battery in the back of the clock module. The Real Time (1:1Ratio) is designed to run on battery power to avoid leaving the controller power on. Battery life can be up to 2 years.