

**FIELD INSTALLATION OF MANUAL EQUALIZE TIMER OPTIONS****REFERENCE**

- 1A) Schematic Diagram (JE5076-00) - Single Phase
- 1B) Schematic Diagram (JE5078-00) - Three Phase
- 2A) Schematic Diagram (EJ0096-01)
- 2B) Schematic Diagram (EJ0097-01)
- 2C) Schematic Diagram (EJ0869-01)
- 3) Hole Pattern Drawing (FN0167-00)

**MATERIAL REQUIRED**

- 0-72 Hour Manual Equalize Timer Kit
  - EJ0096-01 Manual Equalize Time with Float/Equalize Indicators
  - EJ0097-01 Manual Equalize Timer w/o Indicators
  - EJ0869-01 Manual Equalize Time with Float/Equalize Indicators & Manual Float/Equalize Switch

**TOOLS REQUIRED**

- Standard hand tools
- Wire crimpers, cutters & stripper

**PROCEDURE**

1. Disconnect all AC and DC power sources from the battery charger before installing the Manual Timer. Remove all watches and jewelry. Be sure all internal capacitors are discharged before starting work inside the charger.
2. Remove the wires connected to the Float/Equalize Switch (SW1) on the front panel. Remove the switch. Note that the switch is mounted in a 15/32 or 1/2in hole. If an anti-rotation hole is desired for the Manual Equalize Timer, locate and drill the hole according to hole pattern (FN0167-00). Be sure to keep metal chips from falling inside the charger.
3. Install the Manual Equalize Timer using the hardware supplied. Replace the wires that had been connected to the Float/Equalize Switch, and route the new wires to the Timer according to the Schematic (Reference #2). Terminate the wires at the timer with the Quick-Connect terminals provided. Note that Y1 and Y2 are the 120 Vac winding on the input transformer (T1). Install the timer dial with the index on the dial plate pointing to 0 (zero).
4. If indicator lamps were ordered with the Manual Equalize Timer kit, remove the circular black plastic tabs in the front panel holes above the float and equalize adjustment potentiometers.
5. Install and wire the indicators as shown in the Schematic (Reference #2), using the terminals provided with the kit (the green indicator is installed above the "FLOAT" potentiometer). Label the front panel with the appropriate legends, "FLOAT" and "EQUALIZE".
6. Return the charger to service. Test the operation of the Manual Equalize Timer by rotating the knob clockwise. Check that the charger operates in the equalize mode. Allow the charger to run for at least one hour in this mode, and check the timer to be sure it is running. Return the charger to the desired operating mode by setting the timer dial to the desired equalize time, or turning it to zero.