

CN101A timer manual



Before starting, clear any test programming, or stray code from chip by pressing **C** button for 2 seconds.

Set current time:

Press and hold **C** clock button.

Then press **D+** button to select current day of week as displayed on LCD

Press **H+** and **M+** buttons to select current Hour and Minute

Release **D+** button and current time displays on LCD

Program timer:

Press **P** button until 1 and ON display. Release button.

This is Program 1 ON time

Then press **D+** button to select day(s) of week for program 1 ON

Press **H+** and **M+** buttons to select Hour and Minute for Program 1 ON

Press **P** button until 1 and OFF display. Release button.

This is Program 1 OFF time

Then press **D+** button to select day(s) of week for program 1 OFF

Press **H+** and **M+** buttons to select Hour and Minute for Program 1 OFF

Repeat sequence to set more programs.

Each ON requires OFF.

Be careful that programs do not overlap or conflict with each other, or timer will not perform as expected.

When programming is completed:

Press **C** clock button, and current time will display.

Timer is operational.

Manual override:

This button might be used to select mode, such as Auto, Timer, ON, OFF.

Select Auto or Timer for timer functions.

Or manual might be simple override switch. Use manual override button to reverse current programming.

Programming will resume at next set point.

Countdown and Random functions:

Press **C/R** button to select either countdown or random mode.

Wiring CN101A timer:

Timer has 4 terminals. 2 terminals for Clock (or Power) terminals, and 2 terminals for switch.

Connect rated voltage to Clock (or Power) terminals on back of timer.

When clock terminals have power, the switch terminals receive NO power.

Switch terminals are dry. This simple on-off switch can control any voltage, 120V, 240V, 277V, 24V

Connect one Hot wire to either switch terminal, and then connect wire going to Load to other switch terminal. Do not exceed rated maximum 16 amps. Volts x Amps = Watts

Example 240Volt wiring:

Timer connects to water heater circuit with 10 gauge wire and 30 amp breaker.
The 30 amp rating exceeds timer amp rating.
Install in-line fuse between timer and 10 gauge wire.
Timer controls 30-40 amp contactor that switches power ON-OFF to water heater.
Contactor handles water heater amp load.

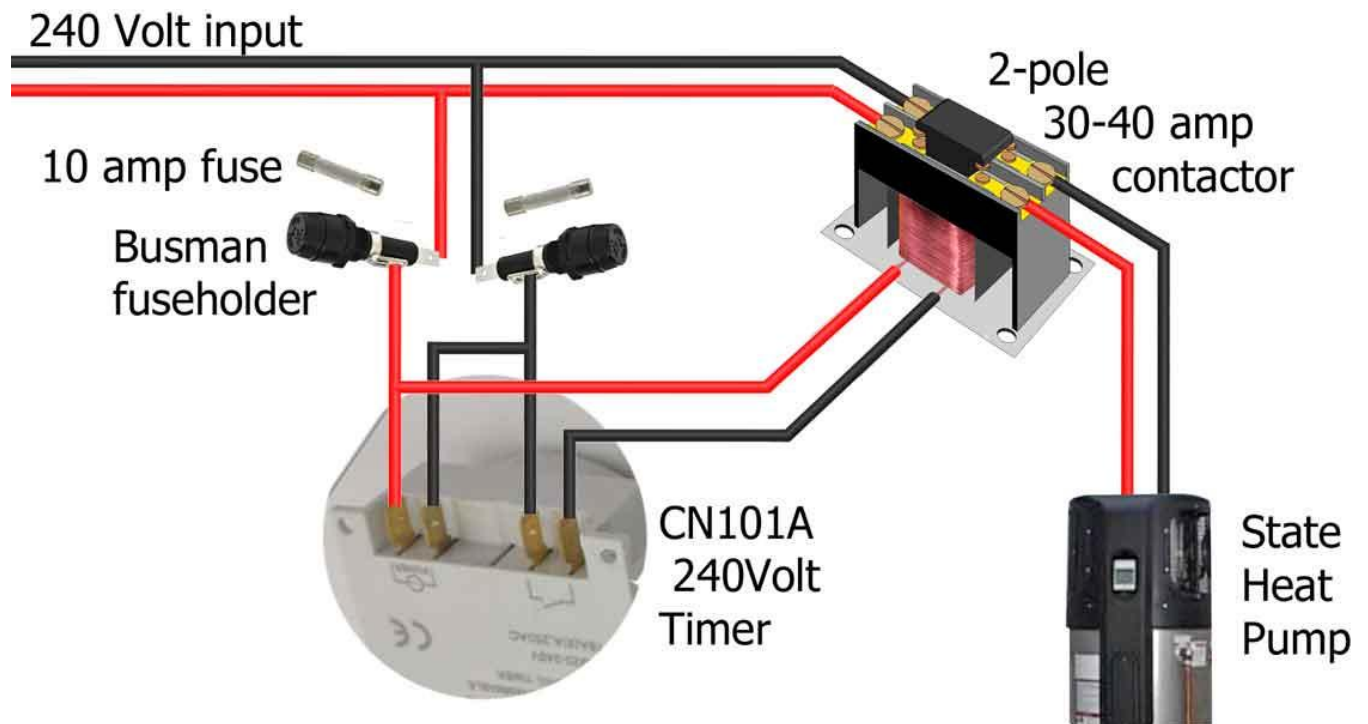
Note both Hot wires connect to timer Clock terminals.

Only one Hot wire connects to switch.

Wire going to Load (contactor) connects to other switch terminal.

Specify contactor with 240V coil.
240 Volt circuit can be turned ON-OFF by controlling one Hot wire. It is not necessary to turn OFF both hot wires.

Contactor is connected to both Hot wires, and timer switches one Hot wire ON-OFF.



Resources:

<http://waterheatertimer.org/Terminals.html>

<http://waterheatertimer.org/Water-heater-contactors.html>

<http://waterheatertimer.org/Woods-timers-and-manuals.html#Remeha>