LUX DMH110a Wiring Diagram

O B Y W RH RC G C

Yellow   White

Red   Green

Single Pole
Double Throw
Switch
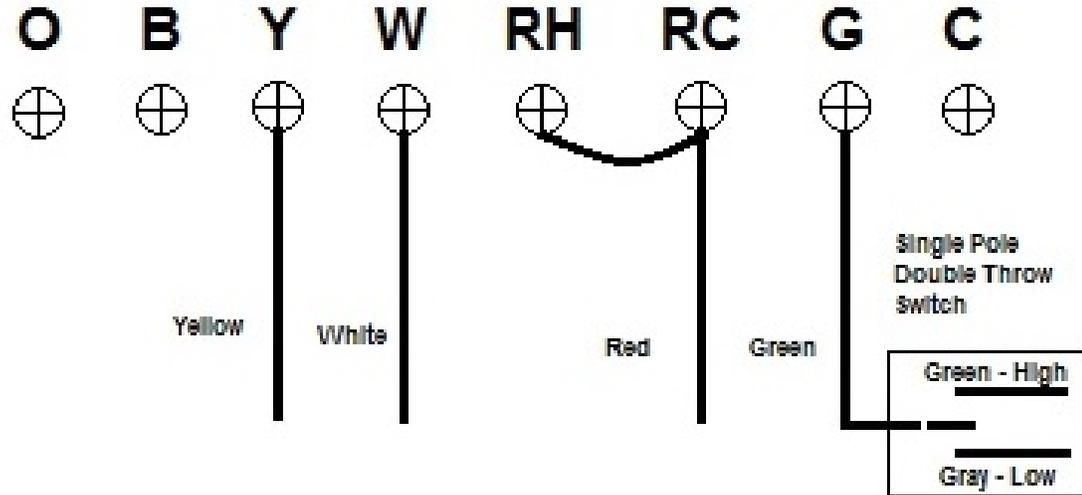
Green - High

Gray - Low

For newer trailers - Move JP2
to "OPEN" (as shown) for a
2 minute delay - then press
and hold "RESET" for 5 seconds

JP3 ●●
JP2 ●● ☐
JP1 ●●

Note:
Single Pole Double Throw (SPDT)
switch is optional. If SPDT switch
is not used, choose either the Green
(High) or Gray (Low) wire to attach to
terminal "G"

For the ability to change the system delay from 5 minutes (older systems) to 2 minutes (newer systems) you MUST have the LUX Model DMH110**a** thermostat that is labeled on the back cover and on the circuit board. The (a) model is the latest revision. Per Lux tech support, the blue wire is the ground and should not be needed.

Material Needed:

12 inches Thermostat wire 18 Ga 5 Conductor
    (From Lowes – Thermostat 18AWG x 5 wire, Item # 100811 custom cut **$0.52/ft**)

1 ea. LUX Model DMH110**a** thermostat
    (From Lowes – Lux Non-Programmable Thermostat Item #: 192774 Model #: LDMH110-006 - **$41.85**)
    (From Home Depot - Lux Digital Mechanical Thermostat Model # DMH110-010 Internet # 204356282 **$28.93**)
    (From Menards - Easy-To-Read Digital Thermostat Model Number: DMH110-010 Menards SKU: 3351468 **$18.99**)

Phillips screwdriver
Wire cutter
Wire stripper
2 ea #6-32 x 1" - Hollow-Wall-Anchor

Mod instructions:
Pull cover from Coleman-Mach analog thermostat and remove 2 mounting screws.

From the bathroom side, remove the 2 screws in the Fan/Light switch. The hole is larger on this side. From the upper area of the hole you should find a wire bundle that has 7 wires with wire nuts that connect to the thermostat that is on the other side of the wall. The thermostat wires are soldered to the old thermostat. From the bathroom side, pull out the thermostat wires as shown. The wires you are interested in are the white, yellow, red and green or gray (green & gray are high & low fan). Remove the wire nuts, separate the two wires and reinstall wire nut to the feed lines. Make sure these wires don't slip back into the wall cavity.
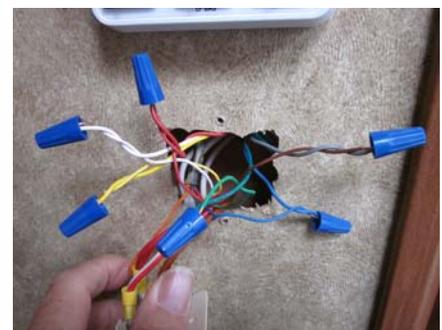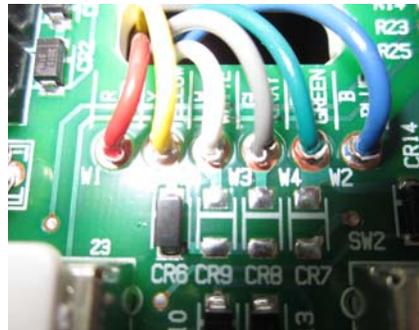
Now that the analog thermostat is removed, drill a 1/4" hole in the existing mounting holes and insert the 2 hollow wall anchor. Be careful to keep it from spinning while expanding the anchor.
Take the 12 inch 18 ga x 5 wire cable and remove about 2" of the cover exposing the 5 wires and strip off about a 1/4" of insulation from each wire. Remove the cover of the thermostat and place it to the side. Take the back plate and attach the yellow wire to the "Y" terminal, attach the white wire to the "W" terminal, attach the red wire to the RC terminal leaving the jumper wire connecting "RC" and "RH" in place. Take the green wire and attach it to the "G" terminal. Push the cable thru the hole and pull it into the bathroom and attach back plate to wall

From the bathroom side take the cable and strip off about 3 inches of the cover exposing the 5 wires. Strip off about 3/8" of insulation from the red, white, yellow and green wire, leave the blue wire without stripping insulation. Take the feed lines and take the 2 red and wire nut them. Do the same with the white and yellow.pairs.
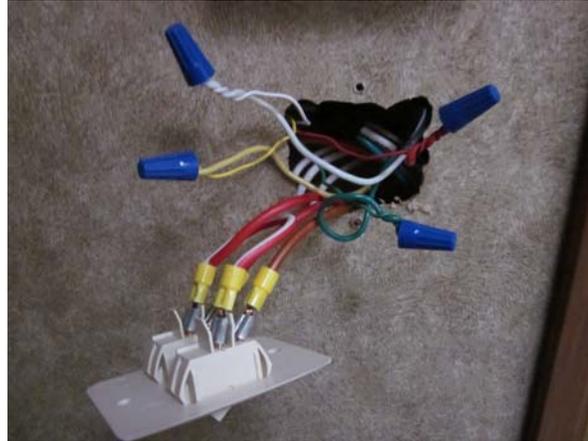
The green wire has three different configurations. You will have to make that choice.

Choice 1 – High fan always
Take the green wire from the thermostat and connecting to the green feed wire.

Choice 2 – Low fan always
Take the green wire from the thermostat and connecting to the gray feed wire.

Choice 3 – Selectable High and Low fan
Take the green wire from the thermostat and connect it to the common terminal on the switch. Take the green feed and attach to terminal L1. Take the gray wire and attach to terminal L2. Top fig 2 is High Fan speed and bottom fig 2 is Low fan speed. With this configuration, you can probably drill a hole that is the same size of the threaded shaft of the switch, below the thermostat.
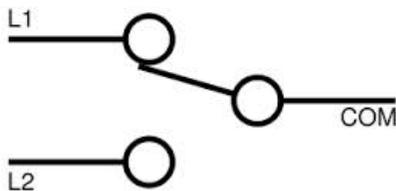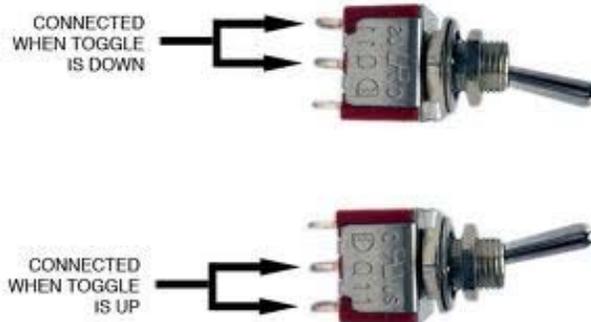
Fig 1   Fig 2

Install the 2 AA batteries, making sure of polarity. If you changed JP2 press and hold the reset button for 5 seconds. Install the cover to base plate, peel clear temperature label from the digital screen. Top switch is the fan switch. Auto comes on when the furnace comes on, and ON fan runs until you switch to Auto. Bottom switch chooses either Heat or Cool. Up/Down arrows to set your desired temperature.

UPDATE:

We were in Northern Michigan in Mid-October where the daytime temps were in the 50-60° and night time temps were in the 20-30°. We set the day time temp to 67° and night time temp at 63°. This thermostat didn't skip a beat and kept us comfortable. Best and cheapest mod yet.

10/24/2013