

Replacing fluorescent lights with LED in the Thin-lite fixture in my Winnebago .

1. Remove the fixture and remove the fluorescent tubes. Remove the metal cover protecting the ballast and electronics in the center.



2. Turn upside down on the bench. Remove screws and / or drill out rivets holding the light sockets and electronics / ballast assembly.



3. Remove the wiring and electronics assembly. In my demonstration here, I remove the dummy switch filling the switch socket so that I can add a real switch to use as a bright / dim switch. This is optional.



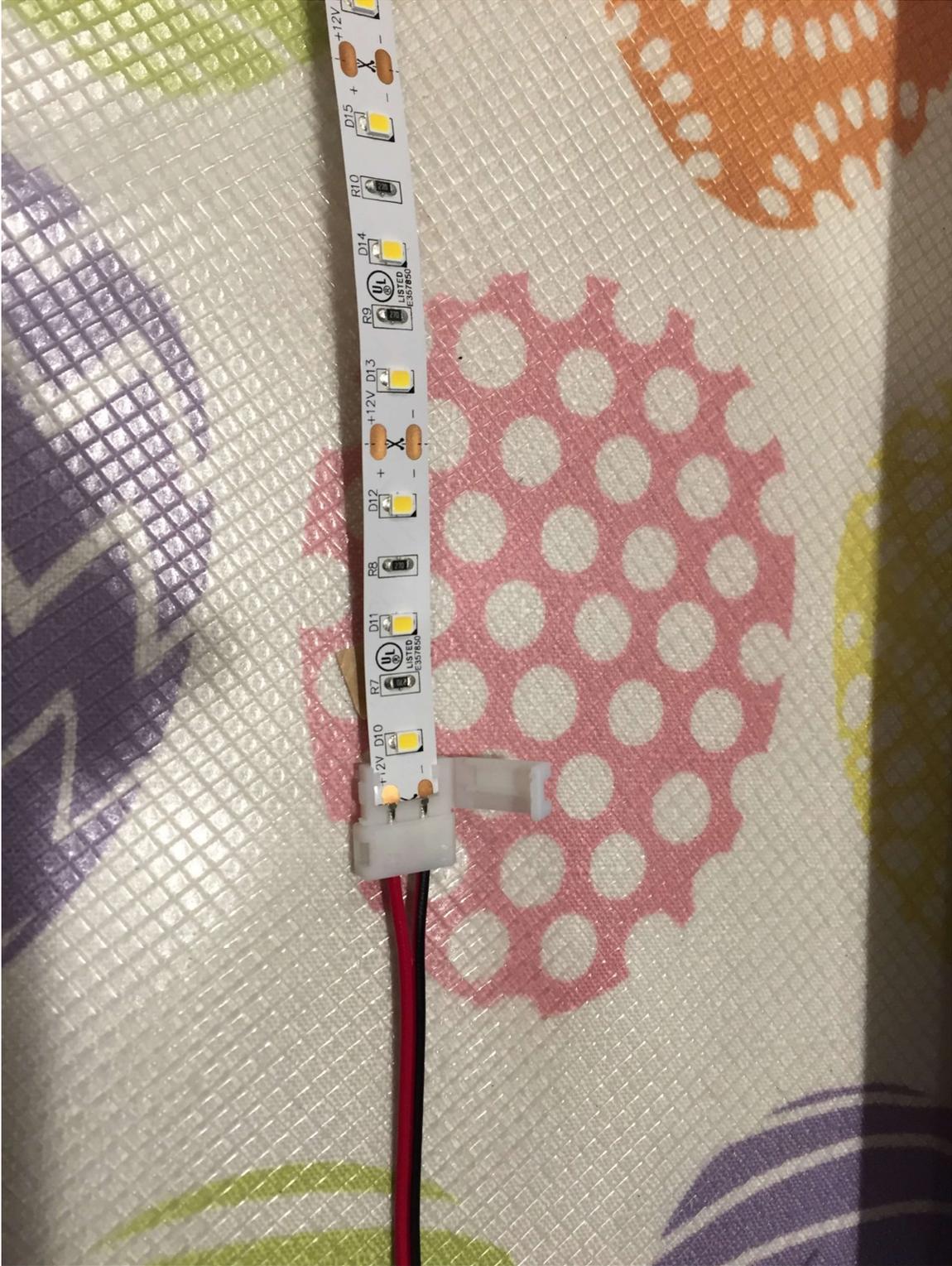
4. Clean the surface thoroughly to insure the strip lights will adhere well.



5. Measure and cut the strips to the correct length to match the fixture, leaving at least an inch at each end. Be sure to cut the strips in accordance with the manufacturer's instructions.



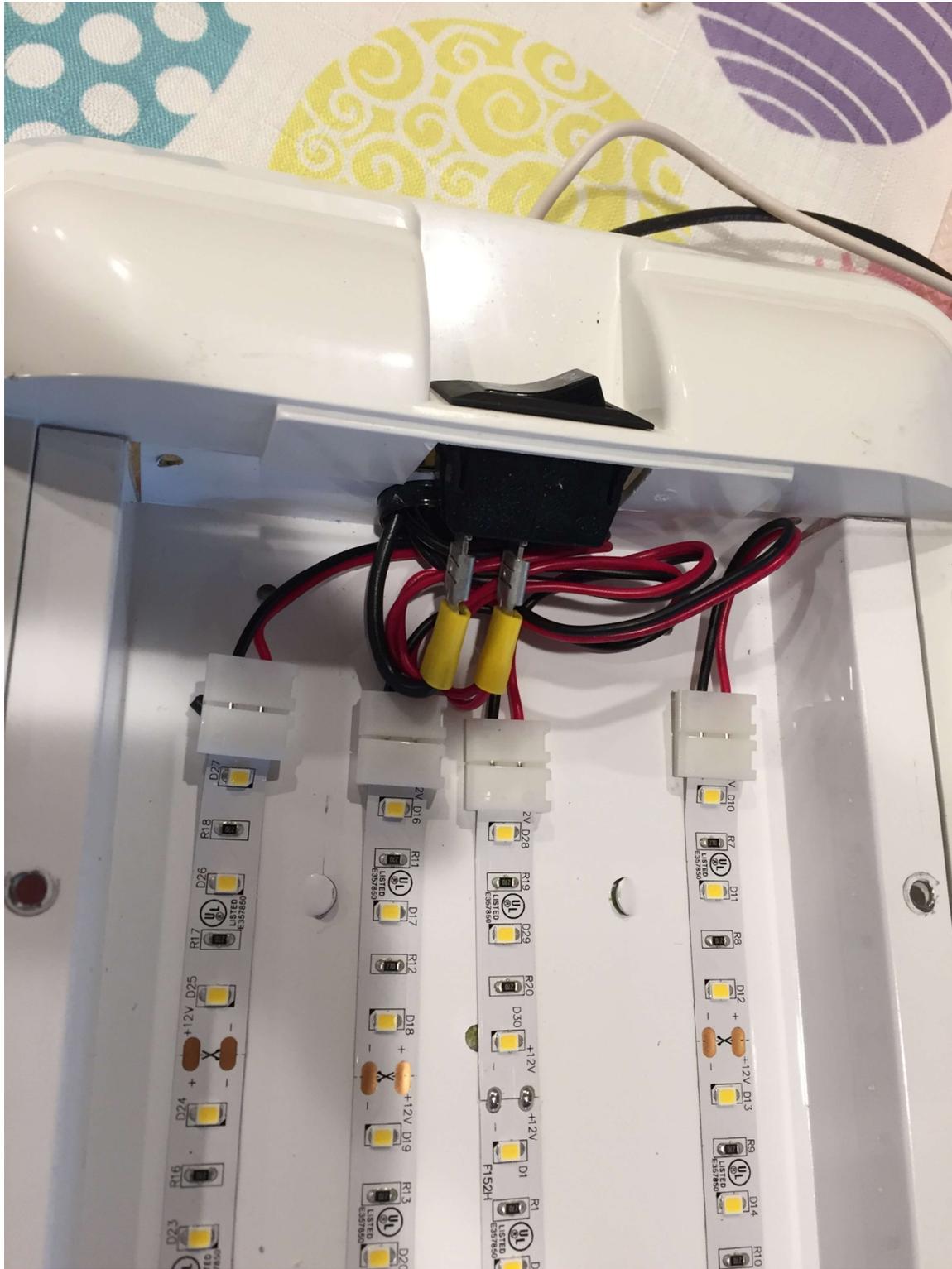
Attach the strips to the wiring plugs supplied for this particular model of strip. These typically have to be ordered separately. Again, follow the manufacturers instructions as to polarity.



Peel the backing and stick to strip to the fixture base plate.



Wire the connectors together. In this case, I arranged for 2 strips to be tied directly to the wall switch as the original was, and two strips to tap off of a bright / dim switch. This is optional. You can just wire all strips together to operate off the wall switch.



Reinstall the fixture in the motor home.

The wiring to the supply wires is not easily visible in this photograph. The supply ground wire runs to all of the black wires, and supply power wire goes directly to two strips, and to the other two strips through the bright / dim switch I added. If you don't want the bright / dim switch, just leave it out and wire all the strips directly to power.

The strips I used in the demonstration are STN-A40K80-C3A-10B5M-12V from Superbrightleds.com, and I ordered the corresponding connectors from them also.

Strip LED's are rated for brightness by lumens per foot. Before ordering, check the lumens rating of the fluorescent tubes you are replacing. Calculate the length of strip LED you'll need to match. If you want the light to be brighter or dimmer than the existing fixture, you can adjust the length of the strips accordingly.