

## NMNGMC MODULE LIGHTS

Material required for one 4 foot module:

- 2 each - Hampton Bay, R20 Black Step Cylinder Track Lighting Model #EC735BK, Home Depot Store SKU # 680-247.



- 1 package - EcoSmart 60W Equivalent Daylight Spiral Double Life CFL Bulb (4 Pack) Model # ESBM814TS450K, Home Depot Store SKU #1000019045 Energy used: 14-Watt (equivalent to a 60-Watt standard incandescent light bulb)



- 2 each - 1/4" Support rod, Round Rod 1/4 X 36, zinc plated. Model # 802297, Home Depot Store SKU #671479



- 1 package – 3/16 in. Black Polyolefin Heat Shrink. Model # HST-187B. Home Depot Store SKU #152670

Home / Electrical / Electrical Tools & Accessories / Staples, Ties & Tubing / Tubing

Model # HST-187B    Internet #202797315    Store SKU #152670




**Gardner Bender**  
3/16 in. Black Polyolefin Heat Shrink Tubing (5-Pack)

★★★★★ Write the first Review    Questions & Answers (1)

**\$1.99** /package

- 1 each – Gardner Bender 1/2 inch Flex Tubing Black. Model # FLX-5007T, Store SKU #140048

Model # FLX-5007T    Internet #202905454    Store SKU #140048




**Gardner Bender**  
1/2 in. Flex Tubing Black

★★★★★ (2) Write a Review    Questions & Answers

**\$2.48** /each

- 2 each – Westinghouse 8 ft. SPT-1 Brown Cord Set. Model # 7010100, Store SKU #406667  
Option: Look for 6 ft. extension cords on sale and modify for use.

Home / Lighting & Ceiling Fans / Indoor Lighting Parts & Accessories / Lamp Parts & Accessories / Lamp Accessories

Model # 7010100    Internet #204836008    Store SKU #406667



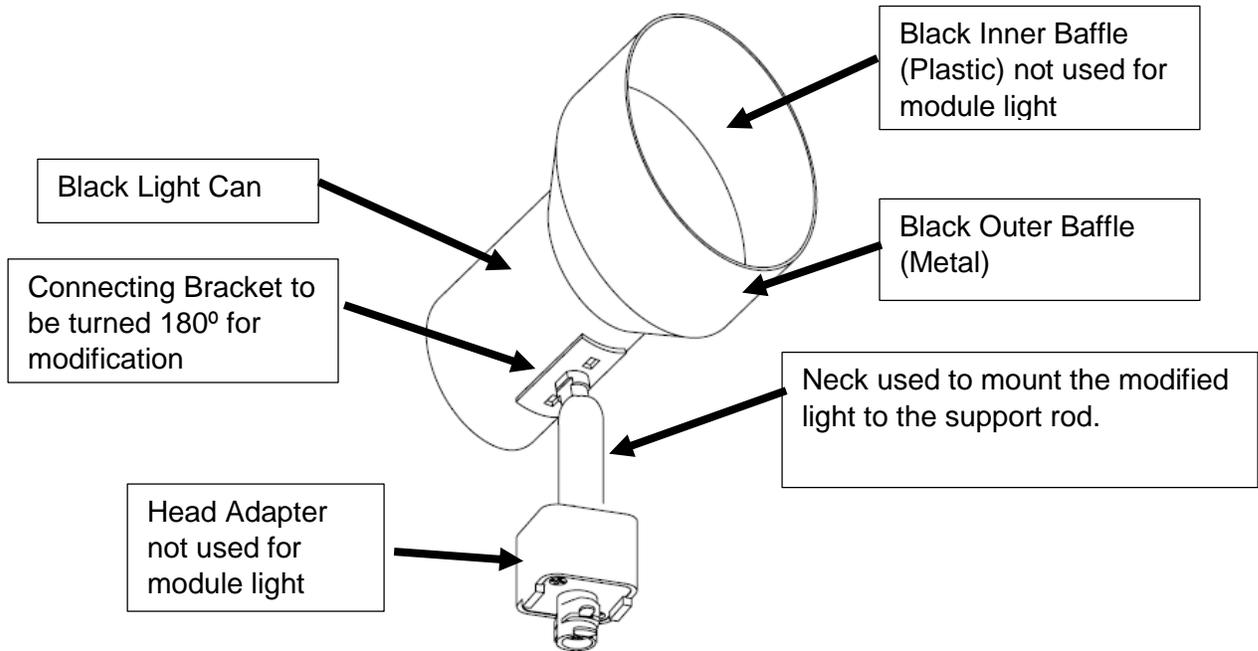

**Westinghouse**  
8 ft. SPT-1 Brown Cord Set

★★★★★ (12) Write a Review    Questions & Answers (3)

**\$6.77** /each

## LIGHT HOUSING MODIFICATION

The track lighting is modified to mount on the support rod and then slid into 1" X 4" X 10" wood blocks with a 1/4 inch slot attached to the rear of the skyboard (see photo on page 4 and 5).



### INSTRUCTIONS:

As with all modifications there is more than one way to accomplish the end result. The instructions are intended to be a guideline.

Please contact Clarke O'Byrne at 505-275-7864 prior to modifying lights so questions may be address ahead of time.

1. Unpack the Hampton Bay track light and carefully dismantle the light fixture. Note how the lamp is coming apart to make it easy to reassemble.
2. Discard the head adapter, 2 small springs, 2 silver screws, 1/4 " lock nut and plastic black inner baffle. These are not used for the module lighting.
3. Place all the parts except the outer baffle in a box to be reassembled later. Take special care with the 2 small black screws which are needed for reassembly.
4. Use paint tape to cover the outside of baffle to block the spray paint. Paint inside of the baffle with Krylon or Rust-Oleum gloss white spray paint. This will act as a reflector and create a brighter light. See paint can for dry time.
5. The connecting bracket needs to be repositioned to allow the socket to be located further back in the light can. By doing this the light bulb will be set completely inside the baffle.

6. The next step is to drill new holes to reposition connecting bracket. Turn the bracket 180° so that it bends the opposite direction from the original track lighting design. The new screw hole will be located ½" from the end of the light can. Mark the location on the can (it should be in alignment with the old screw holes). Drill the hole with a 3/32" bit. The hole needs to be slightly larger than the small black screw.
7. Once the screw hole is determined a new electrical hole must also be drilled. Position the connecting bracket and mark the location for the new hole. Drill the hole with a 9/32" drill bit. The hole needs to be large enough so that the wires insert without chaffing the insulation.
8. Next, drill a ¼" hole in the neck so that the wires can be pull to the outside of the neck.
9. File both the neck and electrical hole to remove rough edges.
10. Cover the old hole from the inside with a small piece of black card stock to keep light from showing through the hole. Option is to paint an old business card and cut to size.
11. Insert white and black wire from the socket through the newly drilled electrical hole. Be patient! Once the wire is through the drilled hole pull the wires through the connecting bracket hole and the newly drilled neck hole.
12. Prior to soldering wires, screw in a light bulb to test that the bulb is fully inserted into the can.
13. Cut heat shrink tubing longer than the exposed wires and slip over extension cord wire ends.
14. Solder neutral (white) wires together and hot (black) wires together. Note the wide blade of the plug is the white or neutral end.
15. Slide heat shrink tubing over exposed wires and heat with hair dryer.
16. Test wiring by screwing in a bulb and plugging in cord. If it lights up the wiring was done correctly. There is no on/off switch for the light. When the power is on for all the modules the lights are on.
17. Support rods:
  - a. 18" and 24" width modules support rod are both 36" long.
  - b. 18" support rod has a straight section 20 1/2" long and then is bent to a 130 degree angle.
  - c. 24" support rod has a straight section 23 1/2" long and then is bent to a 125 degree angle (see photo).



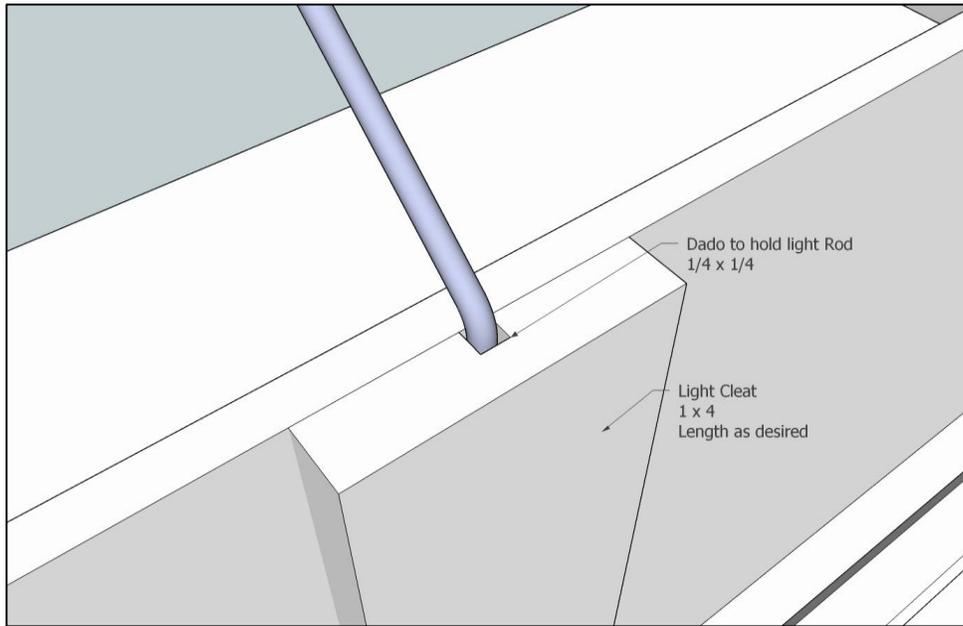
18. Insert the support rod to the neck. Wrap the flex tubing (the flex tubing is split to make this easy) around the rod and extension cord and secure the top of the rod and extension cord with black tape. Use small black zip ties to secure the rod, extension cord and the flex tubing together.



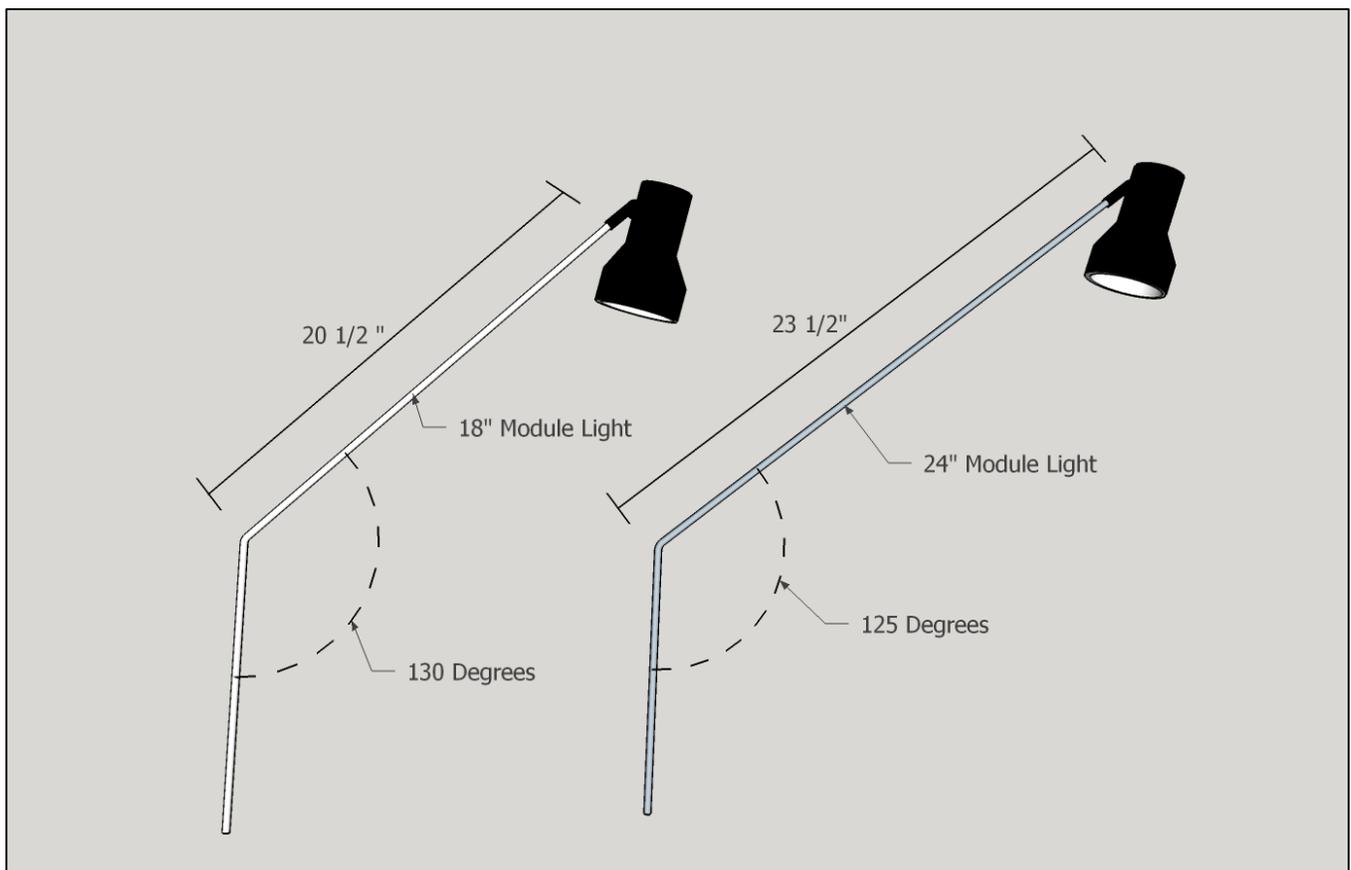
19. The support rod is slid into the 1" X 4" X 10" wood blocks with a 1/4 inch slot attached to the rear of the skyboard (see photo).



20. Plug into the "UL" approved outlet strip installed on the module.  
21. As with all module pieces label to identify your pieces (i.e. your initials, module name, etc.).  
22. Insert light fixture in a "sock" when moving or storing to avoid scratches.



**Light cleat detail**



**18 and 24 inch module lights and light holder**