Building and Installing a MyT.fLED Fluorescent Tube Replacement

A **MyT.fLED** unit is a replacement for the guts of an RV fluorescent fixture, built from one or two strips of **MyT.LED TrimLight** and a thin aluminum mounting plate that can fit inside the fixture shell. This note tells you how to build a **MyT.fLED** unit and how to install it in your RV.

Step 1: Prepare the Fixture. Turn power OFF to the fluorescent fixture. Remove the lens-cover and the fluorescent tubes. At this point you can take the fixture off the ceiling to save yourself some extra effort – your call. Remove the center metal cover to expose the ballast. Cut the white ground wire and the black +12volt power wire at the ballast. The power wire will either come from the switch on the end of the fixture or directly out of the ceiling (if switching is done at the wall). It is your option to remove the ballast or not.

Step 2: Prepare the Wire. Strip the end of the White ground wire and Black power wire back 1/2-inch. Do not let them touch when the +12volt line is powered. That creates a direct short and should instantaneously blow the fuse for that circuit.

Step 3: Test the Plate in the Fixture. The aluminum plate we provide is made from 10mil aluminum flashing. It is 5 7/8-inches wide. Its length is 6- or 12-inches for our pre-built products or the specified length for the custom products. Check how the plate will fit your fixture. The width was chosen to slip inside the most common Thinlite 612 and 616 fixtures, and the plate will bow outward slightly. If your fixture is a different width, trim the side of the metal plate with heavy-duty kitchen scissors to make the plate smaller, or for larger fixtures find some wider flashing to use, or simply lay the plate on the lens-cover. Be versatile. For instance, in one installation of a 36-inch MyT.fLED inside a lighting cavity, I mounted wooden runners inside the cavity and then screwed the plate to the runners.

Step 4: Mount the Strips on the Plate (already done with pre-built plates). To put only one strip on a plate, you run it down the center. The LED strip is 9/16-inch wide, so determine how far one side will be from the edge to make your positioning mark. To match an original two-tube fluorescent fixture, each LED strip should be 1 1/4-inches in from the edge of the plate.

Be sure the wire pigtails on your strips are in position to be connected to your house ground and +12volt power coming from the ceiling. Place a strip of electrical tape on the metal plate under the exposed wire from the strips to ensure they do not contact the metal. Remove the covering from the backing of each strip to expose the glue and place the strip in its position on the mounting plate. When you are satisfied that its position is correct press the strip firmly down onto the plate to set the glue.

Step 5: Connect the MyT.fLED to Ground and Power. Wrap the ground wire(s) from the plate (marked white) to the White Ground wire from the ceiling and cinch it with a wire nut. Wrap the power wire(s) from the plate to the Black +12volt power wire and cinch it with a wire nut. Turn power ON to the fixture to be sure the LEDs light. If they do not light, use a volt-meter to diagnose the problem.

Step 6: Place the MyT.fLED Plate in the Fixture and Close the Lid. When you are satisfied the LEDs are working as required, warp the plate to insert it into the fixture or simply lay it on the lens-cover. Reattach the lens-cover and your installation is complete

MyT.fLED units offer a significant improvement over the other LED replacement products for fluorescent lighting with stronger LED lighting, better color rendering, fully regulated LED circuits,

and better placement of the LEDs within the fixture. Thanks for choosing **MyT.fLED**.