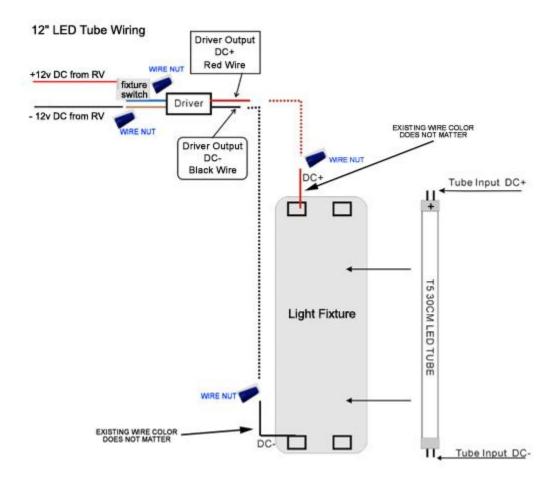
Installation Instructions T5 12" Tube Lights

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- 1. Professional Installation is recommended. You will be required to rewire your light fixture in order to run this 12vdc LED retrofit light.
- 2. Confirm the light to be retrofit is 12v DC. This product is only to be used on 12v DC systems, attempt to use on 120v AC system will damage the bulb and may result in serious injury.
- 3. Turn the Master Power of the RV Off
- 4. Remove the fixture lens and florescent tube light. The tube may pull straight out, or may turn 90 degrees and pull out depending on the design.
- 5. Refer to the retrofit LED wiring diagram. If you do not understand the diagram, request more information or have a professional continue installation.
- 6. Locate the wiring and fixture ballast. You will need to remove the ballast from the fixture as it is not necessary with LED tube light and your LED tube light will not work with the ballast in place. The ballast and wiring may be under a tin shroud, or in the end of the fixture. You may have to remove the fixture from the RV in order to disassemble it. Due to the many different fixture designs, we cannot provide specific instruction on finding and removing the ballast.

- 7. Identify which wires to cut or remove from the fixture and ballast. You should end up with a positive and negative wire coming into the fixture from the RV (through the fixture on/off switch if applicable), and one wire extending from each tube socket. The two pins at each end of the LED tube are wired together internally, so you only need one wire to each socket. Additional wires from each socket may be removed.
- 8. The LED tube light comes with an external driver covered in black shrink wrap with 4 wires extending from it. Do not remove the covering. Each tube must have its own driver, so if you are retrofitting a two light fixture, you will need two drivers. The purpose of the driver is to convert 10-30v power to clean 12v power and is required in the installation. This should be placed in the fixture in the same area the ballast was removed from.
- 9. The input wires from the RV for the driver are Blue and Brown. Connect the Brown wire to the RV ground wire entering the fixture. Connect the Blue wire to the Positive wire coming into the fixture, or if the fixture has an integrated on/off switch, connect it to the switch.
- 10. The output wires from the Driver are Red and Black. With the provided wire nuts, connect the red wire to one wire on one base at one end of the fixture. Connect the black wire to one base at the other end of the fixture.
- 11. Install a LED tube light and test. The end of the tube marked LED + needs to go to the socket base which is connected to the driver red wire. The end of the tube marked LED needs to go to the socket base which is connected to the driver black wire.
- 12. After testing, remove the tubes, reinstall any removed shields, and place the included LED Retrofit sticker inside the fixture behind the LED Tube light. Reinstall the LED Tube lights, Fixture Cover, and enjoy the new light.