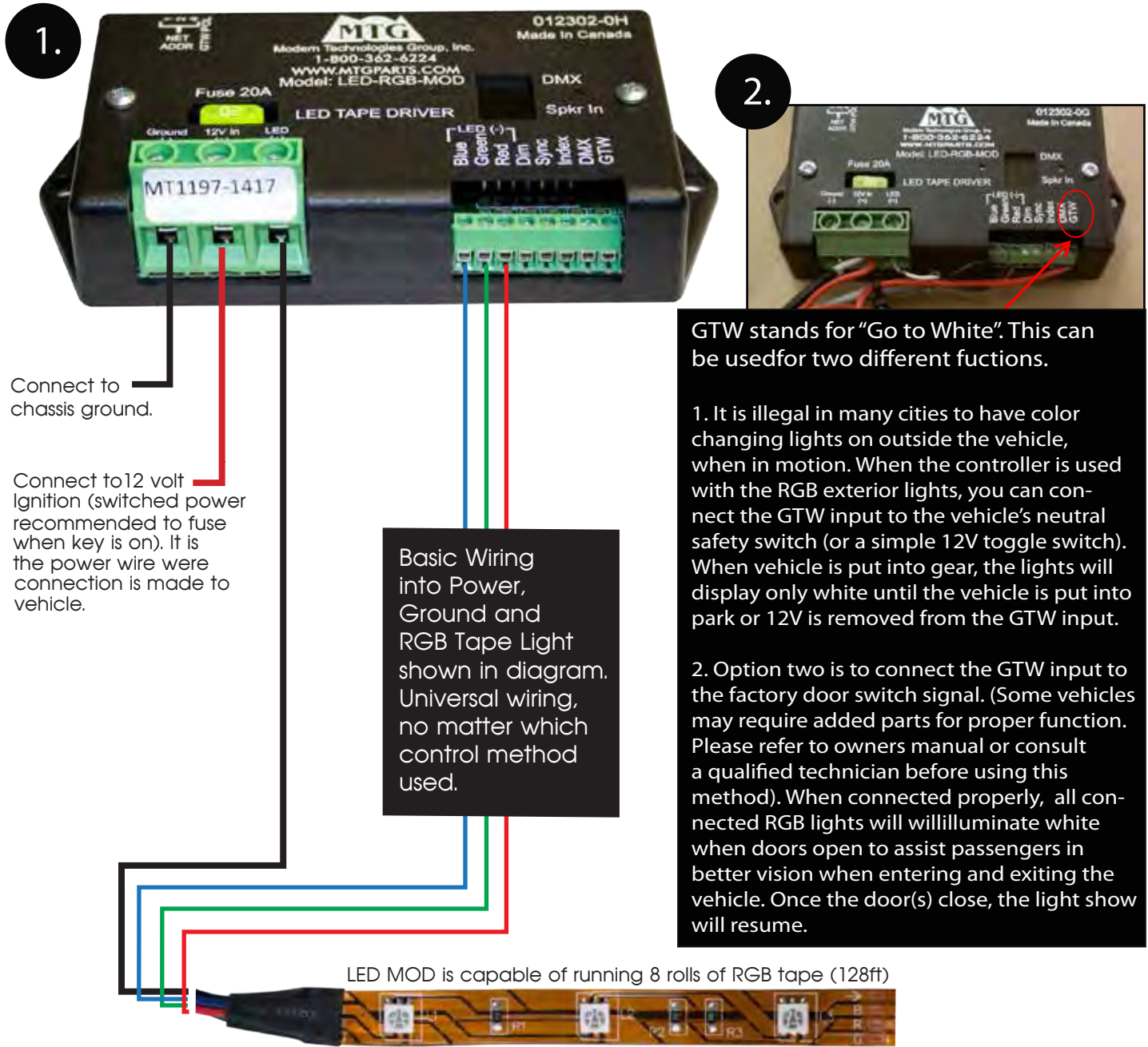


# LED-RGB-MOD INSTALLATION INSTRUCTIONS

## BASIC WIRING DIAGRAM

The LED-RGB-MOD can be connected and controlled by 3 different methods to best suit your needs!

- (1) Optional LED-RGB-KP Keypad
- (2) Plugged directly into The Smart Touch Electrical system and controlled from the display panels
- (3) Used with your own supplied switches

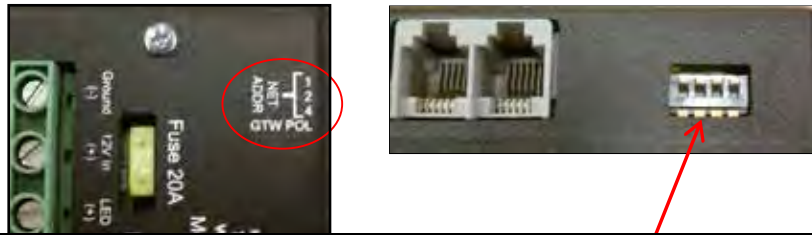


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# RGB Controller Dip Switch Settings

## Connecting Multiple RGB Controllers Into One Vehicle



The factory settings for the dip switches are all in the UP position. If these are changed it will affect how the RGB controller operates. The only dip switch that would need to be changed is #1 (first one on the left). This switch changes the input polarity for the "Go to White" feature. When in the UP position, the "GTW" input activates with the -12V Ground and when in DOWN position "GTW" will activate when the +12V power is applied.



When multiple RGB controllers are connected like the diagram below you are able to have different "light shows" being displayed in the vehicle. When you press the "Sync Light Show" button the "slave" controllers will automatically display the same light show as the "master" controller. Press the button again and all of the controllers will return to displaying different light shows. If you do not have the optional keypad in the vehicle, you can use the Smart Touch Menu or "Sync" input on the "master" controller to simulate the same feature. You would simply need to supply the +12V to the sync input on the master controller only.

Multiple controllers can be used no matter what control method you choose. Optional keypad shown above.

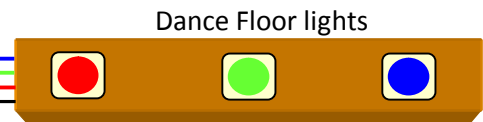
"Master" RGB Controller



"Slave 1" RGB Controller



"Slave 2" RGB Controller



\*Use supplied cables to connect RGB controllers together along with control method.




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# LED-RGB-MOD INSTALLATION & OPERATION INSTRUCTIONS WITH OPTIONAL LED-RGB-KP KEYPAD

1. Refer to basic wiring instructions for wiring into power, lights and universal GTW and Dip settings. (Page 1)

2. 

The driver and the keypad will both have two plug inputs. Use the provided cable to connect the two units. Either side can be used. The additional plug input(s) are for connecting additional RGB controllers.

## Keypad Functions Explained



These buttons allow you to change the RGB controllers light pattern output.

This button is used to dim the brightness of the RGB lights. There are four stages to the dimmer, including OFF.

Press to "Sync" all of the RGB controllers in the vehicle to one light show pattern. This button is only used when you have multiple controllers.

The keypad display illuminates to the RGB controller's coinciding light show that the RGB controller is displaying to the RGB lighting. There are a total of 16 "light shows" for your customers to choose from. The controller will also retain it's memory of what light show it was displaying when powered back on.



# LED-RGB-MOD INSTALLATION & OPERATION INSTRUCTIONS WITH SMART TOUCH SYSTEM

1. Refer to basic wiring instructions for wiring into power, lights and universal GTW and Dip settings. (Page 1)



The driver and IOM will have two plug inputs. Either side can be used. (The additional plug input(s) are for connecting additional RGB controllers). The IOM will need the top casing removed to access plug. Use the provided cable to connect to the IOM.

3. Follow below steps to enable in Smart Touch Menu.



1. Power on the System
  2. From Entertainment Screen, press and hold Time Display for 5 seconds, which takes you to Unlock Screen, use code 8191 to unlock.
  3. Choose Lighting Setup Option
  4. Choose LightSync Setup Option
  5. Choose LightSync Enable Option and then Exit out.
  6. Lighting Menu now has Light Show Button added.
- The Lightshow Option on the menu will control all LiteSync operations through the Smart Touch Screen.



The option can be disabled again by returning to the LightSync Setup Menu and choosing the Disable Option.



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# LED-RGB-MOD INSTALLATION INSTRUCTIONS FOR WIRING INTO SWITCHES

The LED-RGB-MOD can be connected and controlled using your own low-amperage switches. Compatible with 12V On/Off Toggle or Momentary style switches.

1. Refer to basic wiring instructions for wiring into power, lights and universal GTW and Dip settings. (Page 1)

2.



All inputs shown in diagram are designed to trigger with a 12V positive input. Every time the input is triggered ON and OFF, the RGB Controller will change it's function. Any basic momentary switch can be used for these functions.

- GTW  
LED tape will go to white when there is a positive or negative input trigger selectable with dip switch on side of tape driver.
- DMW  
Not Used.
- INDEX  
LED tape will change sequences with each ON/OFF toggle of 12 volt power.
- SYNC  
Not Used.
- DIMMER - ON/OFF  
LED tape will dim with each ON/OFF toggle of 12 volt power.

# RGB Controller Trouble Shooting

**Q:** Why do my RGB lights only work for a couple of minutes then shut off but my controller still has +12 volt going into it?

**A:** The main thing to check is to see if the wires leading to the RGB tape have not been damaged or pinched. If the wires are being shorted out against metal it will cause the controller to go into protection mode and shut it down to protect the outputs. This only shuts off the outputs. The +12 volt power input will still show power. When ignition input to the controller (+12 volt in) is cycled the controller will reset it self but if the problem continues it will shut down again. If you can't identify any obvious damage to the wiring leading to the RGB lights then you must isolate the different areas or leads to the RGB lights. What this means is if you have RGB lights going to the Bar area and lights in the dance floor they are likely to have 2 leads going into the controller. You need to separate the "bar" and "floor" RGB lights and test by connecting to the RGB controller individually. If there is a problem in the RGB lights for the bar it will cause the controller to shut off again. This same method of testing also applies to the floor RGB lights.

**Q:** Why am I not getting all of the colors out of my RGB Controller (no blue output)?

**A:** There could be a bad connection with the Blue wire from the RGB tape to the RGB controller or the Blue output from the RGB controller might not be working. First check the output on the RGB controller by using a digital multimeter set to read DC voltage. Place the Red lead from your meter onto the RGB controller output that says "LED +12" then place the Black lead to your meter to the output labeled "Blue LED (-)" on the RGB controller. If your meter reads + 12 volts or higher than the RGB controller is working correctly and you need to check the wiring to the LED's. There also could be a bad connection to either the LED itself or to the RGB tape depending on what is installed in your vehicle.

**Q:** Why is the Green only working on half of the RGB lights in my vehicle?

**A:** This is most likely a wiring issue inside the vehicle between one section of RGB lights and the next. First you need to identify the areas in which the green lights are not working. Then locate the sections were the wires have been connected to each other. For example instead of running a lead from the floor lights to the RGB controller the installer might have ran them from the floor to the bar lights and made a connection behind the bar then ran the wiring from there to the RGB controller. This is not an uncommon practice to be used by installers because it cuts down on wiring usage but creates a problem when failures such as this occur,

**Q:** Why is my Keypad not displaying the same color as the RGB lights?

**A;** Double check the wiring on the RGB controller to ensure that the proper colors have been wired to the correct output colors.

**Q:** I have both +12 volt power and chassis ground going to the RGB controller but it will not turn on.

**A:** This could be two different things. First, using a multimeter check the voltage going through the fuse located were the main power and ground inputs are. If the voltage is above +12 volt and the fuse is good then move on to the next test. Second test is if you are using the Keypad press the "dimmer" button to see if maybe it is not in the OFF stage. I you don't have a Keypad then apply +12 volt power to the "Dim" input on the RGB Controller to make sure that it isn't set to the OFF stage.



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