

Setup Instructions

1. Unzip the "Mazda Wca_LED_Color_Chooser.zip" file to your "Documents" folder.
2. Plug in the FTDI ttl-232r-3v3 cable into a PC.
 - a. If the computer cannot find a driver for this cable one must navigate to device manager and select the device there. It should be labeled as an unknown device and have a yellow triangle next to the icon.
 - b. Right click on the device and select "Properties".
 - c. Select the "Driver" tab and click on the "Update Driver" button.
 - d. Select the option to browse your computer for driver software.
 - e. Now navigate back to the FTDI USB to TTL Drivers folder and press ok.
 - f. The PC should now find the proper driver for the cable and in device manager the device should be listed under "Ports (COM & LPT)" as "USB serial port (COM#)".
3. Double click the "Mazda Wca_LED_Color_Chooser v1.1.2.exe" application
 - a. The only way in which to start application is by double-clicking on the "Mazda Wca_LED_Color_Chooser v1.1.2.exe".
 - b. The application should never be run from a shortcut as the included "WcaInterfaceLibrary.dll" file must be in the same location that you start the "Mazda Wca_LED_Color_Chooser v1.1.2.exe" application from.
4. Have Wireless Charger unplugged from power (ACC OFF) and USB serial from the PC.
5. Plug USB Serial cable into the computer.
6. Select the new COM port that appears in the ComPorts list box.
7. Apply 12 Volts (ACC ON) to wireless charger device.
8. Beneath the "Help" button the message should say "Connected".
9. The Controls for choosing the default colors for the LED should now be enabled.
 - a. Note: Sometimes the device may not connect after cycling power. Simply cycle power to the device until it connects properly.)
 - b. If the message beneath the "Help" button says "COM port could not be opened" then there must be another program currently connected to the COM port you have chosen. First close all other programs which could be making this connection. If it still fails to connect - try restarting the PC.

Application Functions

1. There are 4 slider bars (3 of which are disabled but still show color values). The bottom slider bar is able to increase the intensity of any hue according to the ratios of the current color values.
2. The bottom 6 radio buttons are capable of changing the color of the LED to the 6 colors which represent the states of the device.
3. On the right are several text boxes which can represent the intensity of each color of our RGB LED in either percentage, or Hexi-decimal. The radio buttons above the 4 slider bars can be checked or unchecked to change the text boxes to which value type you prefer.

4. An optional check box on the top left labeled as “Enable Color Sliders” allows one to change the hue of the LED to whatever color you desire.
5. There are 3 ways to change colors:
 - a. Select a radio button at the bottom in the section labeled “Default Colors”
 - b. Click and slide the slider bars.
 - c. Type in the percentage or hex values in the text boxes and hit enter.

Additional Notes

1. Should you unplug the serial connection from the device accidentally – it should be perfectly fine to plug it back in with no interruption in functionality of the application.
2. Should you unplug the 12v Power source from the wireless charger – you must exit the “Mazda Wca_LED_Color_Chooser v1.1.2” application and restart it using the above instructions.