

**IMPORTANT: PLEASE READ ALL THE INSTRUCTIONS BELOW BEFORE
INSTALLING**

1) Your bike needs to be clean and cooled off before you begin installation. The 3-M tape will not work properly on a dirty surface. In making this product we stressed for it to be simple, safe and complete. But, it still requires your common sense. You should plan out the placement of your complete system before you mount with tape and ties. Remember these lights are for display purposes. Please check local laws and follow them when using our product.

2) Inventory your kit. You should have 1 Swint Spine pre-wired harness, 1 package of extensions and connectors, Zip-ties, and your lights. Lay out all the pieces so you can see the complete kit. It will help you understand the instructions.

3) How does the Swint Spine work? The Swint Spine is designed to connect to your bikes 12 volt battery. Do not splice this system into anything. The Swint Spine's battery connections are simple. The (Red) Positive-fuse line needs to be attached to the battery's Positive connection. The C-design is for easy addition to the battery post. The (Black) ground line can then be added to the battery. The Switch has to be placed, but save the mounting for last. You can use the 3-M tape that is mounted on the switch. Try to mount it discretely on the left side. This leaves the throttle hand free. The five light connection "lines" are left. Notice the plugs are female. The Swint Spine has no male plugs. Depending on where you mount your lights will determine how these 5 lines spread out on your bike. With good planning you can mount all your lights with a minimum of pieces. Each of these 5 lines on the Spine must be used. From there, the possible ways of getting power to the lights with the Y and W connectors and line extensions are endless.

4) The female plugs on this whole system have the catch/release clip on it's top. The male plug from a light, Y or W connector or a line extension has a raised bevel on its "top" which works with the catch/release of the female plug. The bottom of the female plug is flat and the sides have notches carved out. It looks like a box. If you compare this to a male plug from a light, Y/W connector or line extension, the male plug looks like a cobra's head, with side flares and the bottom having two silver "fangs" showing. The top has a raised bevel where the cobra's "nose" is. The sides have pinchers where you hold the male plug with your fingers when working with them. These two pinchers fit the slots on the sides of the female plugs. To connect or disconnect these plugs with your fingers, you hold the top and bottom of the female plug and the sides of the male plug. If the tops of the plugs are correctly lined up, the inside pins will fit together property. This is important. You will hear a "click" when the female and male connect together. It's important to push down on the release and hold the male plug by the sides when you disconnect them. Try it out on one of your extensions. The pins are placed by machine, but if at anytime one of the pins dislodge, push them back in with a small pointed object. Remember, any work or connecting should be done with the light's switched off.

5) How do I mount the lights? The first thing is to figure out where you think you want them. The lights all have male connections. To check the effect of the lights before you mount them, connect one of each style to a W-connector and then connect this to a couple of 36 inch extensions that are connected end to end and then to your Swint Spine and connected to your battery. With the switch turned on, move the lights around the bike, trying to find spots which yields the best results. Each light style work differently. Try each style in each area and keep in mind that

you will have to trace them back to the harness keeping them free from hot engine parts, moving pieces or parts, etc. After you determine where you want to mount all the lights, give each spot a wipe down with some de-natured (rubbing) alcohol and then mount the lights by peeling the protective paper off the 3-M tape and placing them one by one on the bike. This should only be done after you have a good idea where each light will go, where each Y and W connector will go and what lines will need extensions. Only then should you mount the lights with 3-M tape. This tape is very strong and does not like to be moved, so placement is important. When work is required, the connections in the Swint LED lights are designed to allow the system to be disconnected in most cases without dismounting the lights from their spot. If you must remove the light from it's surface, it's best to twist the light to break the grip. Think of twisting off a bottle cap. The 3-M tape will not take being pulled apart and should be replaced. If needed, more 3-M VHB double sided tape is widely available at most hardware and office supply stores. Blue painters tape can be used to pre-mount the lights till ready to use the 3-M.

6) What do the Y and W connectors do? The Swint Spine has 5 connections for lights. Each of these lines can accept the male end of any light, Y/W connector or line extension. To expand 5 lines to the number of lights you connect, you must use the Y/W connections somewhere in the system. Y/W connectors can come before or after a line extension. More than one Y/W connector can be used on the same line.

7) When do I use the line extensions? The line extensions are used when the placement of the Swint Spine and the placement of the lights around the bike are greater than the basic setup allows_ Try to use the shortest extension needed. More than one extension can be used on the same line. You might not need all the extensions to complete the system. All line extensions have one male and one female plug.

8) Secure the system to the bike. After you feel you have a plan, the harness and all the lines to the lights should be hidden as much as possible, then secured with the Zip-ties and tape provided. Make sure before you secure the system to the bike that none of the wires or lights touch sources of heat, moving parts, etc.

9) Warranty. Your satisfaction is the warranted item. Swint LED Lights will replace any part of our system for any reason as long as you own your bike. Swint LED Lights, 959 Piner Place. Santa Rosa, California. 95403. 707-569-0326. E-mail- jpswintled@comcast.net