INSTALLATION AND OWNER'S MANUAL
Z5140 Xenon Lighting Kit
for R1150 GS

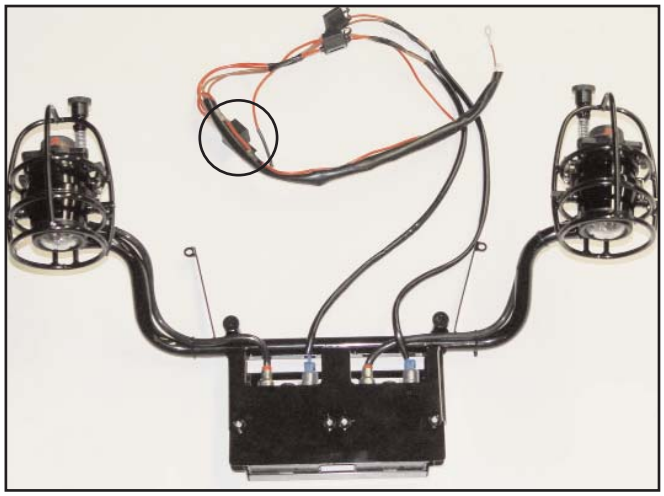
Read these instructions carefully and thoroughly before beginning work.

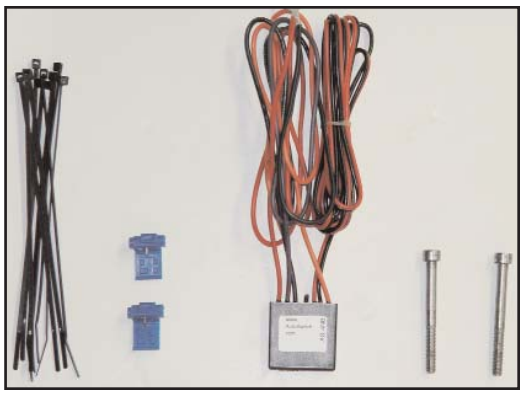
Before installing the accessory, carefully consider whether one possesses the necessary technical skills and workshop tools to complete the installation properly. Otherwise, any BMW Motorcycle Retailer will be glad to install this accessory.

Socket 10mm and Wrench with extension
#2 Phillips Screw Driver (not pictured)
Wrench, 10mm
Wrench, 13mm
Torx Key Wrench, T25
Hex Key Wrench 6mm
Hex Key Wrench, 5mm
Slip Joint Pliers
Diagonal Cutters (for cable ties)
Black Plastic Tape (electrician's tape)

Parts List

Part No.	Description	Qty.
90-965140-000	Light Bar Assembly with Relay attached	1
Bag 425		
51-515360-000	Screws, M6 x 60	2
80-813960-000	Switch Module	1
80-850000-000	Scotchlok Connectors	2
44-448723-000	Cable Ties	10


Light Bar Assembly with Relay


Bag 425

Special notes and cautionary measures which can prevent damage to the motorcycle.

Tips for facilitation of operation, control and adjustment, as well as maintenance work.

ZTechnik PO Box Maywood, IL 60153-0158 USA
708-343-0400 / Fax: 708-343-0625 / www.Z Technik.com / e mail: info@Z Technik.com

10-119734-000 06/03

Figure 1

Left and Right are determined from the rider's position.

PREPARATION

REMOVE THE FUEL TANK FROM THE MOTORCYCLE

1. Remove the seats.

2. Remove the right side cover, just below the rear of the tank. It is held on with rubber grommets; just pull the cover out of the grommets. **Figure 1.**

Figure 2

3. Remove the retaining screw from the right rear of the tank (13mm Wrench and 6mm Hex Key Wrench) **Figure 2.**

Figure 3

4. Disconnect the 4 wire electrical plug. **Figure 3.**


Figure 4

5. Disconnect the overflow hoses. **Figure 4.**


Figure 5

6. Disconnect the fuel hoses. **Figure 5.**

Figure 6

7. Lift the rear of the tank and slide it rearward 2 inches and lift the tank off the motorcycle. **Figure 6.**


Figure 7

8. Disconnect the negative side of the battery (Socket, 10mm and wrench with extension.) **Figure 7.**

Figure 8

INSTALLATION

1. Remove the two M6 Socket Head screws from below the upper front fender, just ahead of the fork tubes (Hex Key, 5mm.) These screws will not be reused. **Figure 8**.

2. Remove the two screws from rear of the upper front fender (T25 Torx.) These screws will be reused.

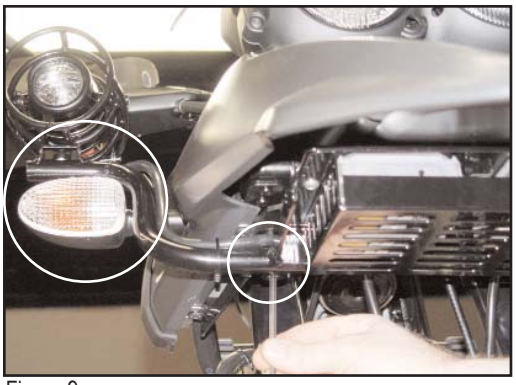


Figure 9

3. Position the Light Bar Assembly up to the under side of the upper front fender. Using the M6 x 60 Socket head Screws from bag 425, attach the Light Bar Assembly through the vertical bushings into the locations of the original M6 screws removed in step 1. **Figure 9.**

Light Bar Assembly should not contact turn signal.

Figure 10

This location holds the oil cooler. Starting the screws may require some movement of the oil cooler. It can be reached from below and inside the upper fender. **Figure 10.**

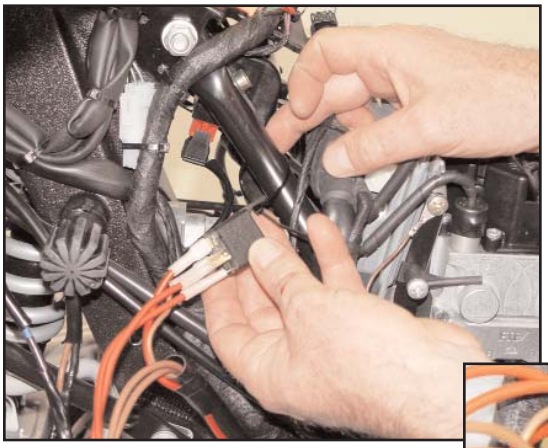
4. Install the rear screws into their original location, through the brackets at the rear of the Light Bar Assembly. **Figure 11.**

5. Tighten these four screws securely.

Figure 11

Figure 12

Figure 13



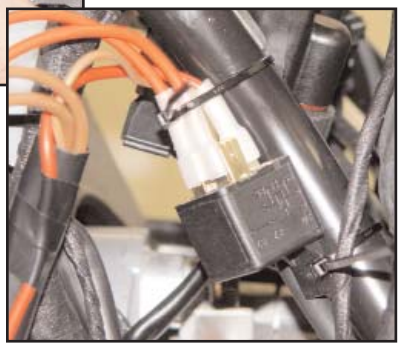


Figure 14

WIRING **LIGHT POWER AND RELAY**

1. Route the wires from the Light Bar Assembly along the fairing support between the fork tubes and then along the left side of the chassis. **Figure 12 and 13.**

2. Secure the wires to the fairing support and to the existing wire harnesses with wire ties.

Make sure the wires do not contact the fork tubes.

3. Attach the relay to the chassis tube as illustrated. Use tie wraps to secure in place. **Figure 14.**

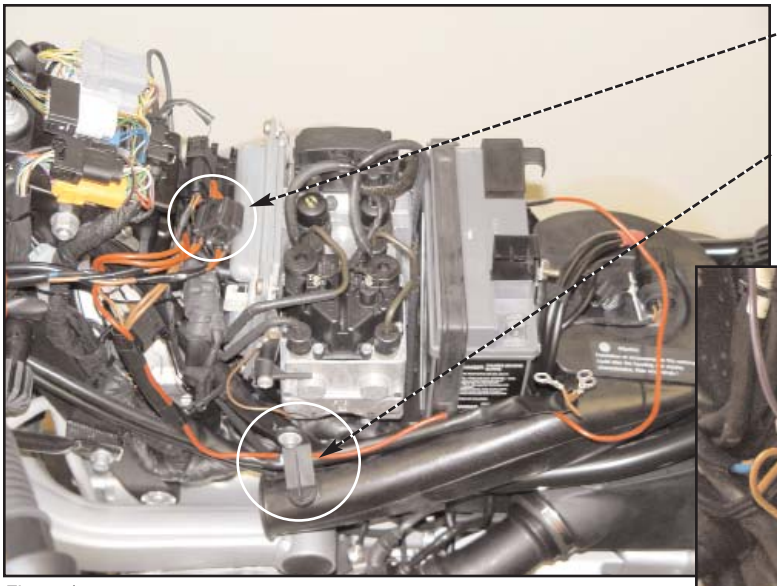
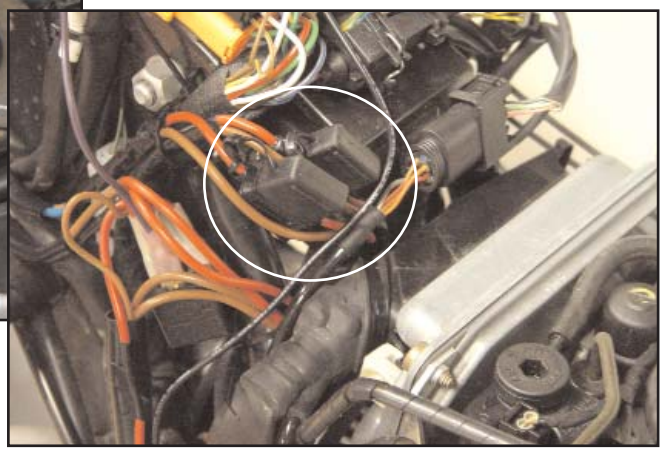


Figure 15

4. Position the fuse holders next to the ignition coil, as illustrated. **Figure 15.**

5.Route the end of the harness with the ring terminals back to the battery, along the air inlet snorkel. Tuck behind the black clip. **Figure 15.**



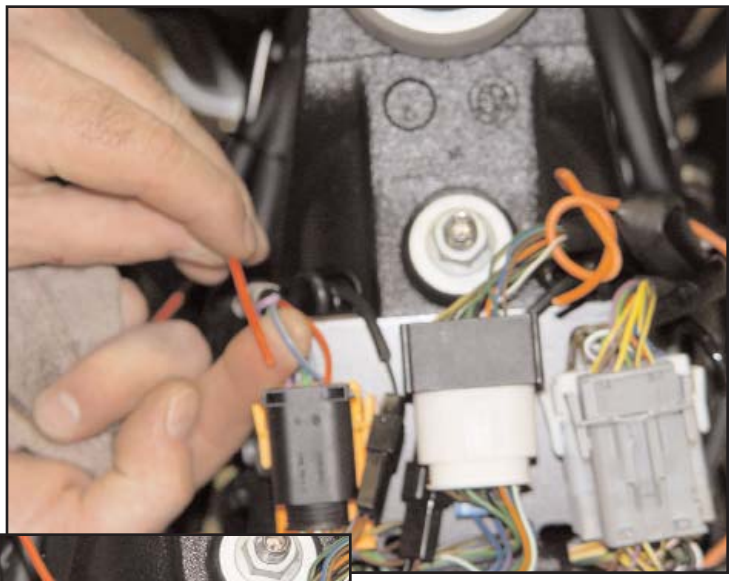


Figure 16

WIRING SWITCH MODULE

1. Locate the **Gray and Blue wire** from the ignition switch. Using a Scotchlok connector, attach the **RED wire** from the Switch Module to the **Gray and Blue wire. Figure 16.**

2. Locate the **Brown w/White Tracer wire** from the right handlebar switch. Using a Scotchlok connector, attach the **ORANGE wire** from the Switch Module to the **Brown w/White Tracer wire. Figure 17.**

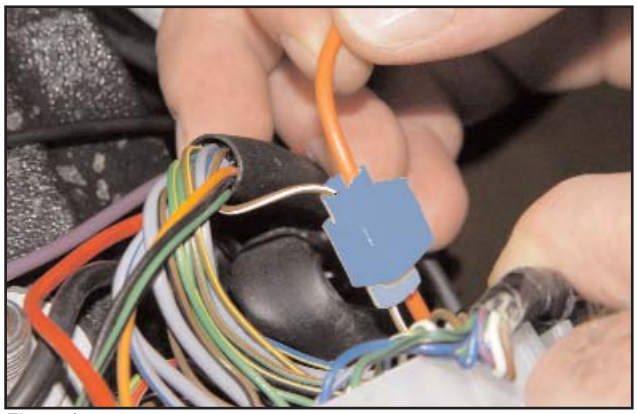


Figure 17

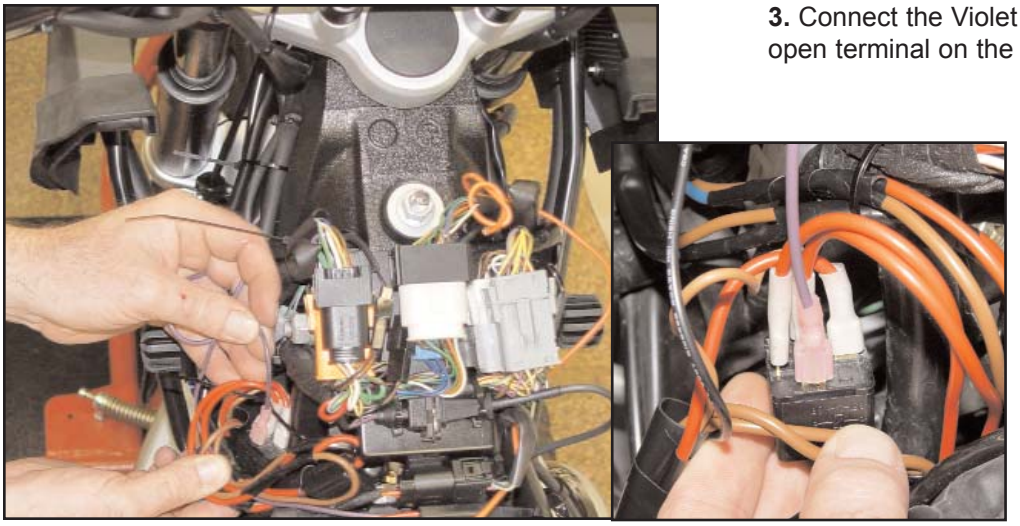


Figure 18

3. Connect the Violet wire from the Switch Module to the open terminal on the Relay. **Figure 18.**

Do not allow the Violet wire from the Switch Module to contact +12 volts; the Switch Module will be destroyed.

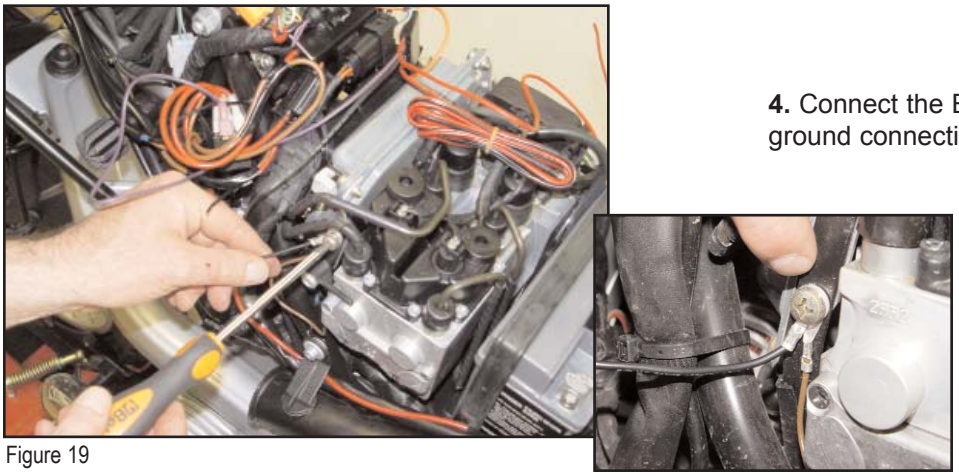


Figure 19

4. Connect the Black wire from the Switch Module to the ground connection at the Motronic unit. **Figure 19.**

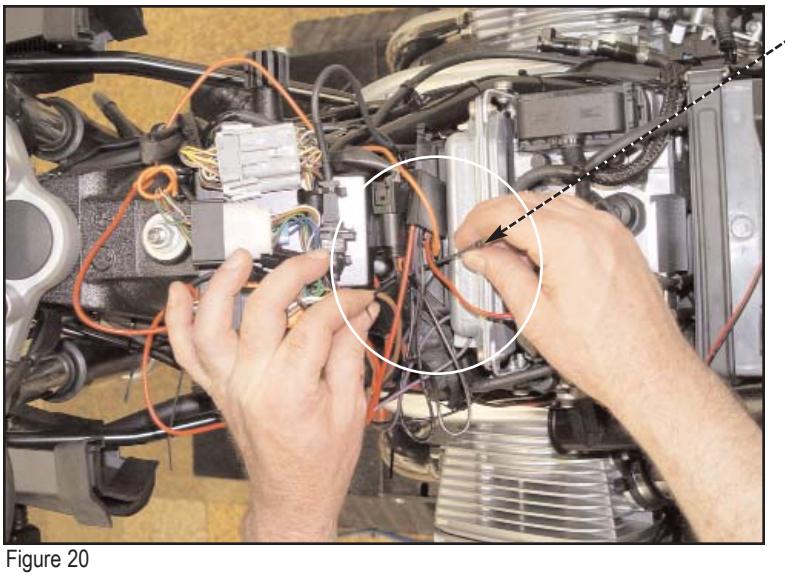


Figure 20

5. Tie the Switch Module wires to existing wires using cable ties. Attach the Switch Module to the electrical connector on the ignition coil, using cable ties. **Figure 20.**

Figure 21

6. Route the Indicator Light along the chassis and the fairing support and tape it to the bottom of the instrument panel. The Indicator will inform the operator that the Xenon Lights are functioning. **Figure 21.**

Figure 22

Wiring **FINAL WIRING**

1. Connect the Red wire with the ring terminal to the + side of the battery. **Figure 22.**

Figure 23

2. Connect the Brown wires to the - side of the battery while re-connecting the battery. **Figure 23.**

Use sufficient cable ties to secure wires. Do not allow wires to get caught in the gas tank support knob. **Figure 24.**

3. Reinstall fuel tank in reverse order of removal.

Lubricate the O-rings on the fuel hose couplers with petroleum jelly before re-connecting.

Figure 24

OPERATION

1. With the ignition in the "On" position, depress the turn signal canceling switch for 1.2 seconds, the Indicator Light will pulse red. **Figure 25.**

2. Release the canceling switch and Xenon Lights will illuminate.

3. Depress the turn signal canceling switch again, for 1.2 seconds. The Indicator Light will pulse red. Release the switch and the Xenon Lights will go out.

Do not allow the Violet wire from the Switch Module to contact +12 volts; the Switch Module will be destroyed.