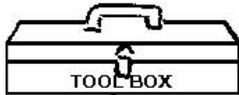


ZTechnik

INSTALLATION AND OWNER'S MANUAL Z5142 Xenon HID Lighting Kit for R1200 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 7/16" or 11mm and Wrench with Short Extension
- Flat Blade Screw Driver, small
- #3 Phillips Screw Driver
- Wrench, 17mm
- Torx Key Wrench, T25
- Square Drive Hex Key, 5mm (not pictured)
- Slip Joint Pliers
- Diagonal Cutters (for cable ties)



Parts List

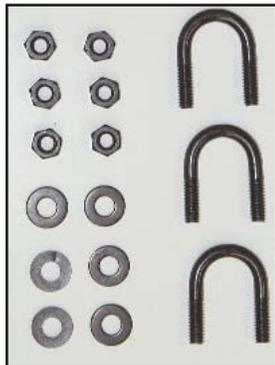
<u>Part No.</u>	<u>Description</u>	<u>Qty.</u>
90-965142-000	Lighting Kit Assembly	

Bag 597

51-513010-000	U-Bolt	3
49-490520-000	Washer	6

Bag 598

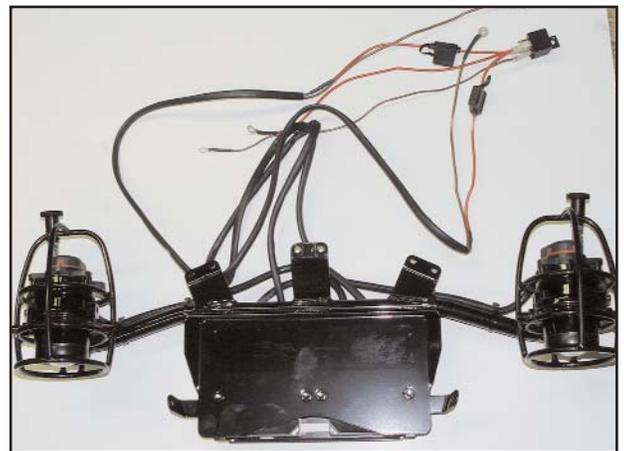
80-850000-000	Scotchlok Connectors	1
44-448723-000	Cable Ties	10
80-830143-000	Wire Loom	1
80-814504-000	Switch Assembly	1



Bag 597



Bag 598



Lighting Kit Assembly



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.



Figure 1



Figure 2

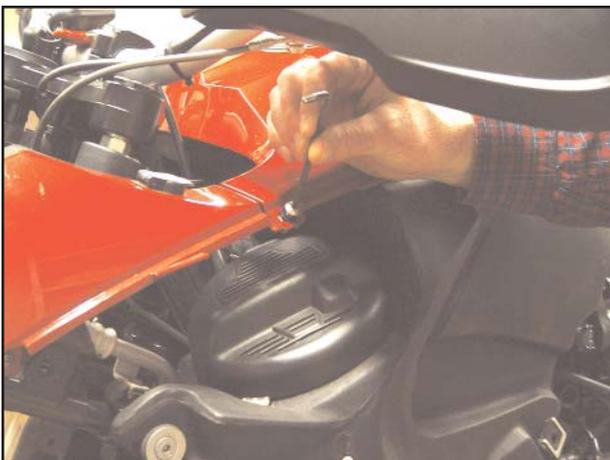


Figure 3



Figure 4



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

PREPARATION

1. Remove the seats.
2. Refer to your owner's manual to remove body panels:
 - Front, black, left and right sides
 - Lower left panel on motorcycle
 - Aluminum panel, left and right (**T-25 Torx**)

Removal of Fuel Tank

3. Remove the fuel tank. Start at the left side of motorcycle and remove the screw. **Figure 1. (7/16" Socket)**
4. Remove the Right Side Screw . Bracket will come off with screw. **Figure 2.**
5. Remove the Torx Head Screw. **Figure 3. (T-25 Torx)**
6. Lift cover off. (Cover snaps on.) **Figure 4.**



Figure 5

6. Disconnect the overflow return system. **A, B, & C**
Figure 5.

7. Disconnect the main fuel line. **Figure 6.**

8. Disconnect the vent hoses. **Figure 7.**



Figure 6



Figure 7



Figure 8

INSTALLATION

Install HID Light Kit

1. Place one U Bolt over the center neck of frame. Place the other two U Bolts over the sides of frame. **Figure 8, 9, 10.**

2. Remove Screws from sides of upper fender. **Figure 11. (T-25 Torx)**



An extra hand to hold the Light Assembly in position will be helpful in step 3.

3. Position the HID Light Assembly up to the under side of the upper front fender.

4. Install Light Assembly with stock screws at the sides of fender. Bracket of HID Light Assembly is placed inside the fender. (T25 Torx) **Figure 11.**

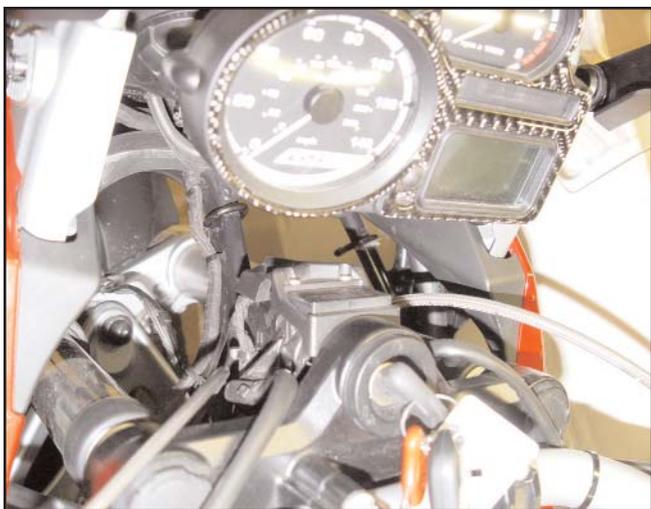


Figure 9



Figure 10



Figure 11

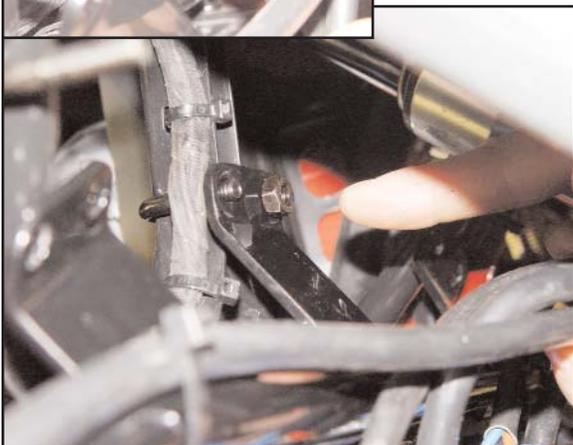


Figure 12



4. Move Light Assembly Center Bracket into position over Center U Bolt.

Use one Nut from Bag 597 and finger tighten. This will support Light Assembly at neck of frame. **Figure 12.**

5. Position OUTSIDE U Bolts through the Light Assembly Brackets. Install Washers and Nuts. Snug the Nuts. **Figure 13.**

6. Remove the Nut from the Center U Bolt. Place Washers and Nuts on Center U Bolt .

7. Complete installation of all Washers and Nuts. Tighten all U Bolt assemblies to 5 ft.lbs. **Figure 14.**

8. Tighten Screws at sides of upper fender. **(T25 Torx)**

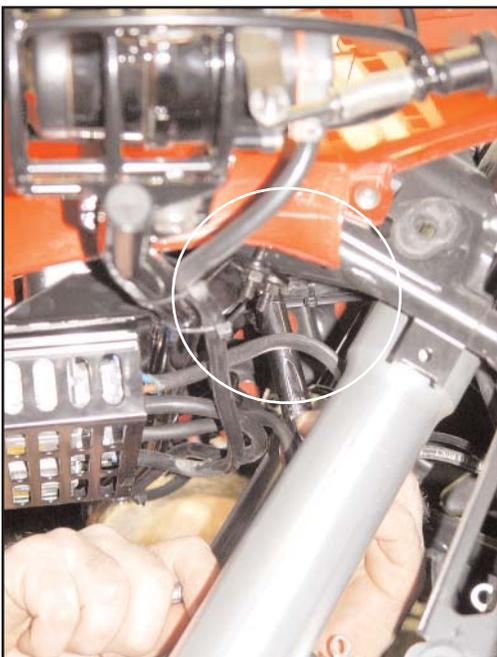


Figure 13



Figure 14



End of
Cable
Located
Near
Battery

WIRING

1. Route wires from Light Assembly between forks, along left hand side of frame to battery. **Figure 15.**
2. Use a Cable Tie to fasten harness to neck and hose. **Figure 16 and 17.**
3. Cable Tie Wires to bracket above battery. **Figure 18.**

Figure 15



Figure 16



Figure 17



Figure 18

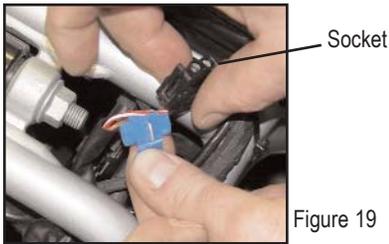


Figure 19

CONNECT POWER LOOM

1. Disconnect the On Board Socket for Accessories. **Figure 19.**
2. Install the Motorcycle's Red with White Stripe wire to the Loom's White with Red Stripe wire using the Scotchlok Connector. **Figure 20. (Scotchlok Connector and Slip Joint Pliers.)**
3. Route along frame with Main Loom. **Figure 21.**
4. Plug flat terminal of Loom into relay above battery. **Figure 22.**

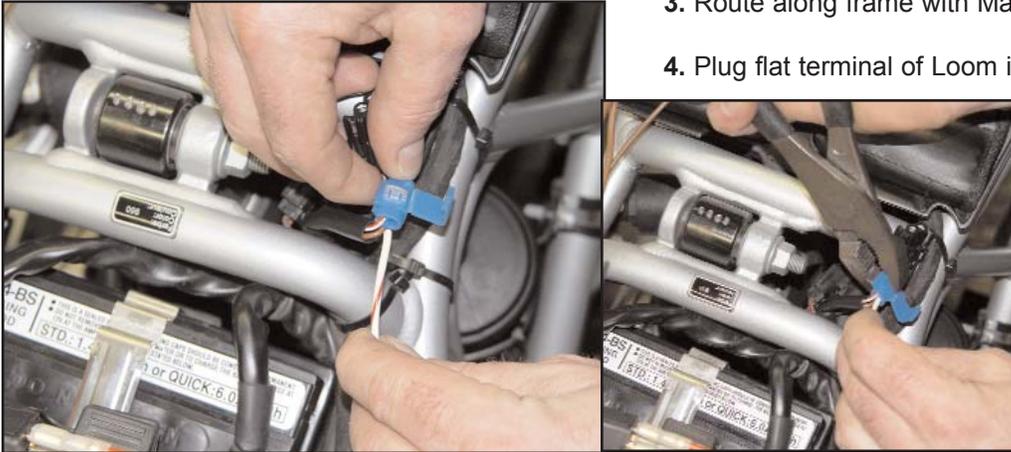


Figure 20

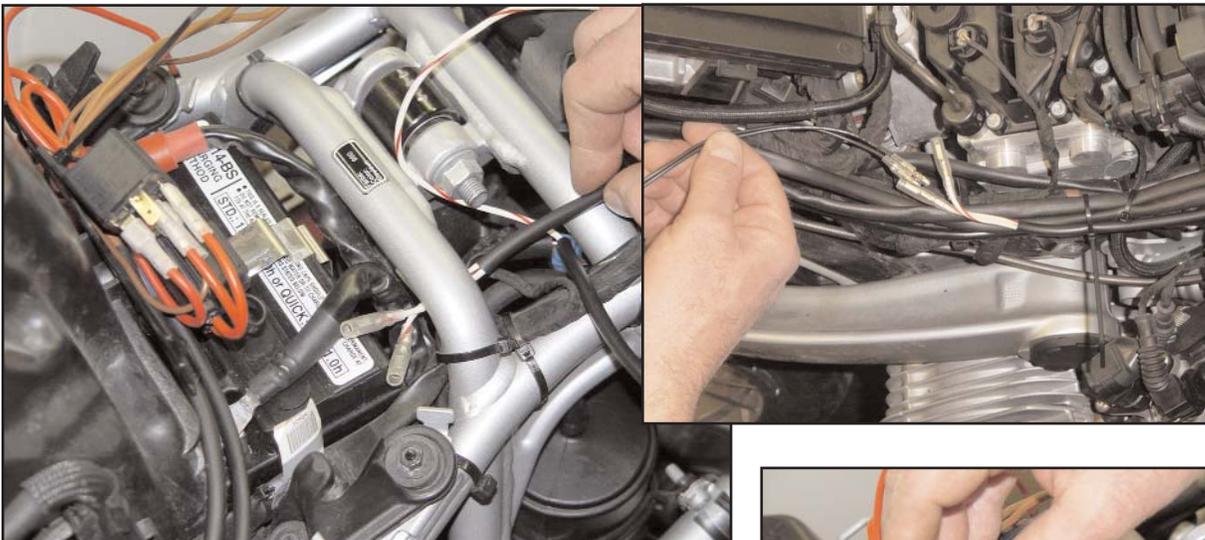


Figure 21

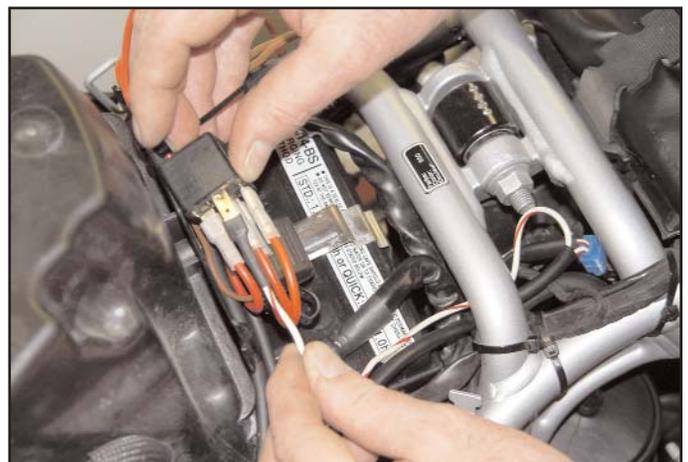


Figure 22



Figure 23



Figure 24



Figure 25



Figure 26



Figure 27



Figure 28

INSTALL SWITCH AND WIRING

1. Fold up boot on mirror stalk. **Figure 23.**
2. Loosen top nut, remove mirror. **Figure 24. (Wrench 17mm)**
3. Loosen bottom nut, remove mirror mount. **Figure 25. (Wrench 17mm)**
4. Install Switch. **Figure 26.**
5. Reassemble mirror in reverse order. **(Wrench 17mm)**

Switch Wiring

6. Plug in Switch. **Figure 27.**
7. Be sure to give slack in wire for Switch at upper end for handle bar left and right turn. **Figure 28.**





Figure 29

FINAL CONNECTIONS

1. Disconnect the the negative (black) wire from the battery. Move wire so it does not touch the battery.
2. Disconnect the positive. Move wire so it does not touch the battery.
3. Connect the RED wire to the positive



In step 4 use the small flat blade screwdriver to support battery nut for connection of the 3 Brown wires. **Figure 29.**

4. Connect the 3 Brown Wires to the negative. **Figure 30.**



5. Test operation of the HID Light Xenon Light, headlight and turn signals. Correct all problems before riding the motorcycle.

6. Re-assemble motorcycle.

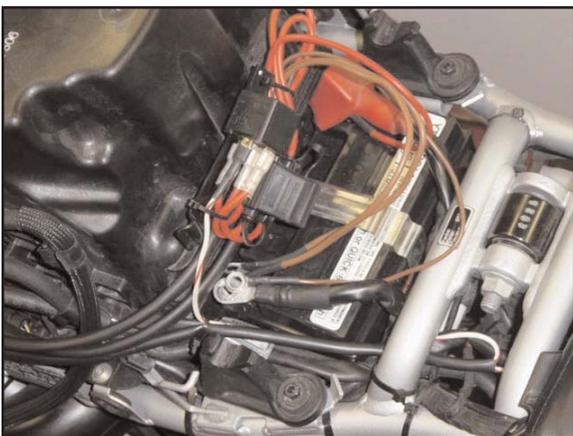
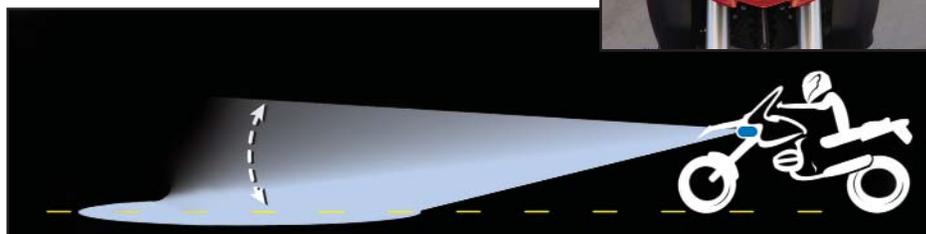


Figure 30



ADJUSTMENT

ZTechnik HID Lights feature independant left and right angle adjustments.



Finished installation shown with ZTechnik Adjustable Windshield Z2243