



Read these instructions carefully and thoroughly before beginning work.

Before installing the accessory, carefully consider whether one possesses the necessary technical skills (you must know how to access the battery on your R1200C) and workshop tools to complete the installation properly. Otherwise, any BMW Motorcycle Retailer will be glad to install this accessory.

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



 Retain all fasteners removed from the motorcycle. All but a few fasteners will be reused. Placing removed fasteners into separate bags will be helpful in reassembly.

- Electric Hand Drill with 3/8" Drill Bit
- Phillips Screwdriver, #2
- Phillips Screwdriver, #3
- Ball Head Hex Key Wrench, 3mm, 4mm and 5mm
- Slip Joint Pliers
- Side Cutters
- Super Glue (cyanoacrylate)

**Parts List**

<u>Qty.</u>	<u>Part No.</u>	<u>Description</u>
1		Gauge Bracket, Chrome

**Bag#420**

2	46-460001-000	Adapter Bracket
2	51-514230-000	Screw, Flat Hex M6 x 30
2	51-515225-000	Screw, Hex M4-7 x 25
2	44-443205-000	O-Ring
2	49-498010-000	Bushing

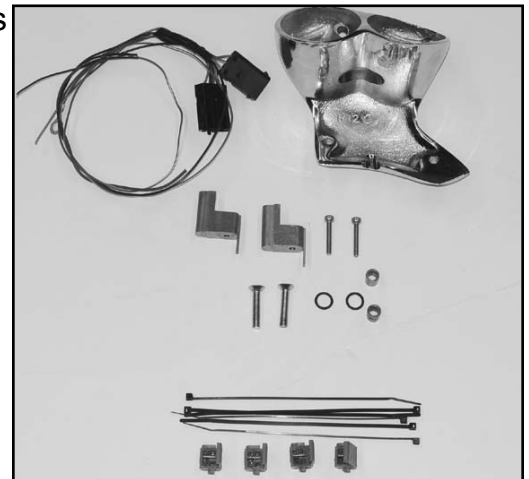
**Bag#477**

1	80-830117-000	Wire Loom, Gauges, Z9510
4	80-830103-000	Connector, Scotchlok
6	44-448723-000	Tie Wrap

**BMW PARTS REQUIRED**

1	62 13 2 306 585	Clock
1	62 13 2 306 612	Rev Counter
4	62 12 1 243 098	Screws
2	62 13 2 306 582	Housing
1	61 12 2 306 579	Wiring Set
1	61 12 2 306 580	Wiring Set

**Supplied Parts**



**BMW Parts**



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.

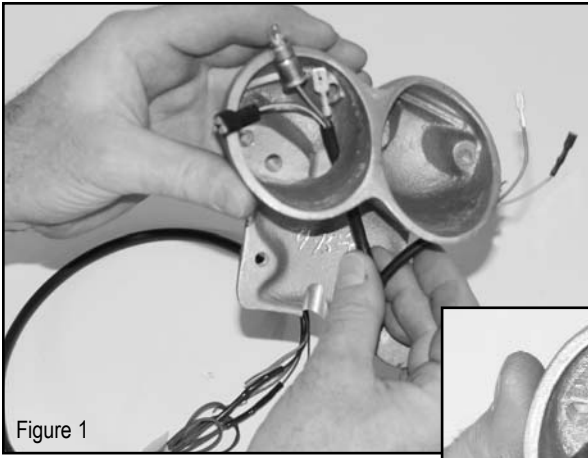


Figure 1

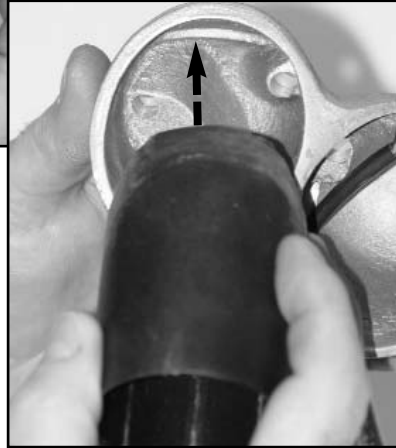


Figure 2

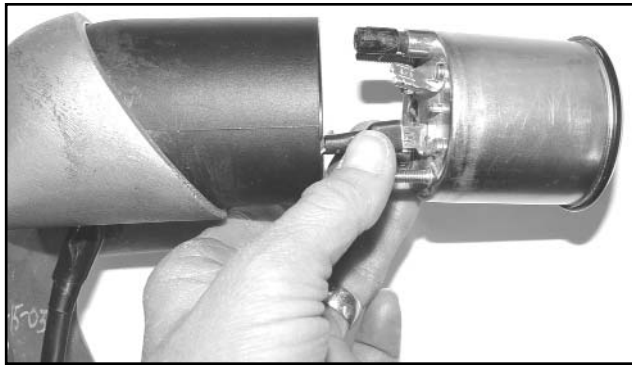


Figure 3



3. Connect the clock wires and light from the harness to the back of the clock. slide the clock into the gauge sleeve. **Be certain your clock is aligned for correct reading after light bulb and wires are hooked up.**



4. Use the nylon female screws to secure the gauge. **(Hex Key Wrench 4mm)** Tighten the female screws securely. **Be careful, over tightening will strip the female screws.** Figure 4.

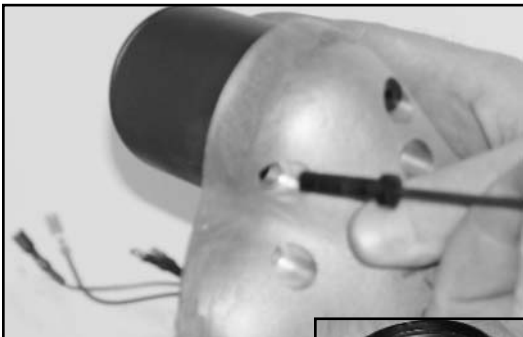


Figure 4



Figure 5

5. Assemble the Rev Counter into sleeve and bracket and connect the wires to the wire harness by color. **Figure 5.**



Figure 6



Figure 7

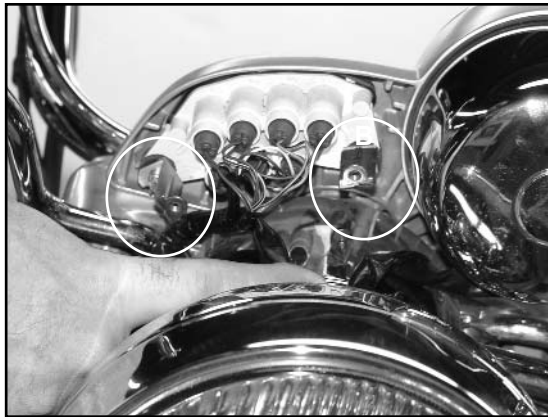


Figure 8



## PREPARE THE MOTORCYCLE

Place the motorcycle securely on a work stand or its side stand.

1. Remove the Fuel Tank, refer to the owners manual for the proper procedure.

2. Disconnect the negative cable from the battery.



3. **Loosen** the screws that secure the headlight to its mounting bracket. **The screws do not need to be removed. (Hex Key wrench, 5mm) Figure 6.**

4. Remove the chrome cover from the back of the indicator lights. **(#2 Phillips) Figure 7.**

5. Snip the wire ties at the cover mounting brackets. Remove the cover mounting brackets. **(#2 Phillips) Figure 8.**

6. Install the steel mounting brackets, using the supplied M4 x 25 screws, where the original cover mounting brackets were located.



**Make sure the alignment tabs are located in the slots just like the original brackets. Tighten to 30 in lbs. (Hex Key wrench, 3mm) Figure 9.**

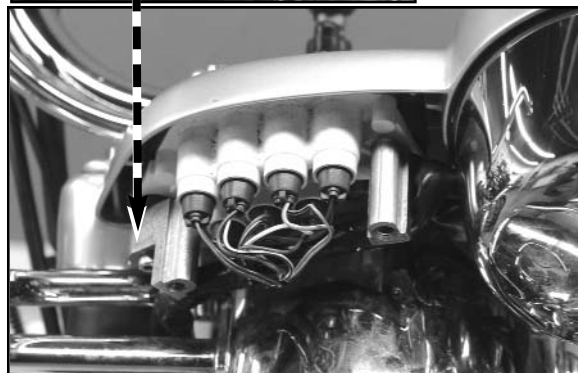
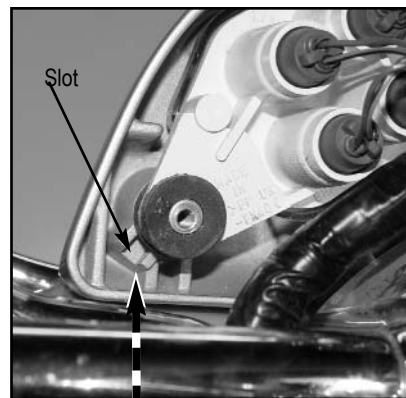


Figure 9



Figure 10

7. Drill out the screw holes in the indicator light cover. (Electric Drill with 3/8" Drill Bit) **Figure 10.**



Figure 11

8. Insert the Spacer Bushings into the drilled holes. The Bushings should align with the low flats on the inside of the cover screw bosses. **Figure 11.**



Figure 12

9. Place O-rings onto the Spacer Bushings on the outside of the cover. A small drop of super glue will hold the O-rings in place. **Figure 12.**

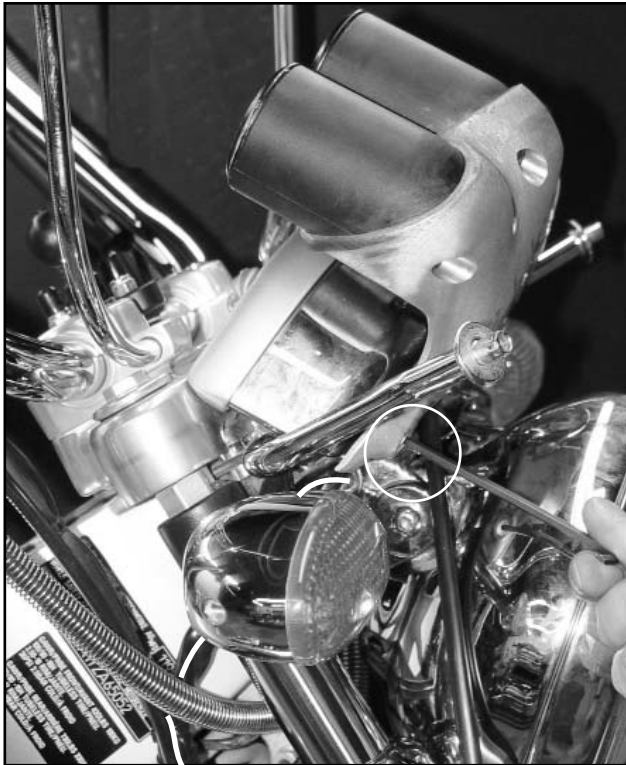


Figure 13

## MOUNT THE ASSEMBLED GAUGE BRACKET

1. Position the Chrome Indicator Cover.



**Make sure the indicator wires fit into the slots on the cover.**

While holding the indicator cover in place, position the Gauge Bracket to the cover.



**Make sure the wire harness is located in the notch at the bottom of the bracket.**

2. Using the M6 x 30 flat head screws, secure the Gauge Bracket, through the Chrome Cover, to the Cover Brackets. (**Hex Key wrench, 5mm**) **Figure 13.**



**Be careful that the screws thread in without binding.**

3. Tighten the screws to 48 in lbs.

4. Route the wire harness from the Gauge Bracket below the Bracket, over the right side turn signal and to the inside of the right fork tube. **Figure 13.**

5. Then route the harness, along with the existing stock harnesses, into the chassis on the right side. Secure the Gauge Harness to the existing harnesses in about three places with wire ties. **Figure 14 and 15.**

6. Continue routing the Gauge Harness, with the existing harnesses, inside the chassis to the right side of the electrical box.



Figure 14



Figure 15



Figure 16

## WIRING, Z9510 CLOCK and TACHOMETER SET for R1200C

1. Remove the Motronic unit from the Electrical Box (4 screws, #3 Phillips) **Figure 16.**

Side cutters will be needed to remove the tie-wraps. The main plug into the Motronic unit does not need to be disconnected, but the small connector should be unplugged. Allow the Motronic unit to hang by its harness on the right side of the motorcycle. **Figure 17.**

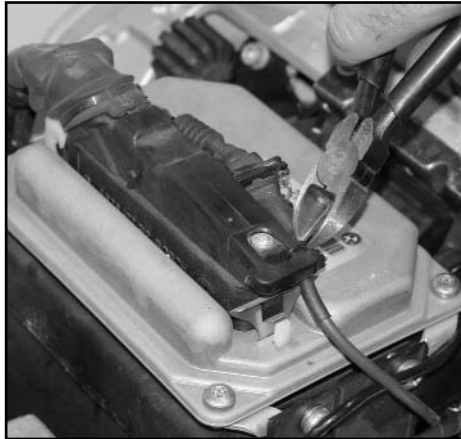


Figure 17

2. Remove the lid from the Electrical Box.

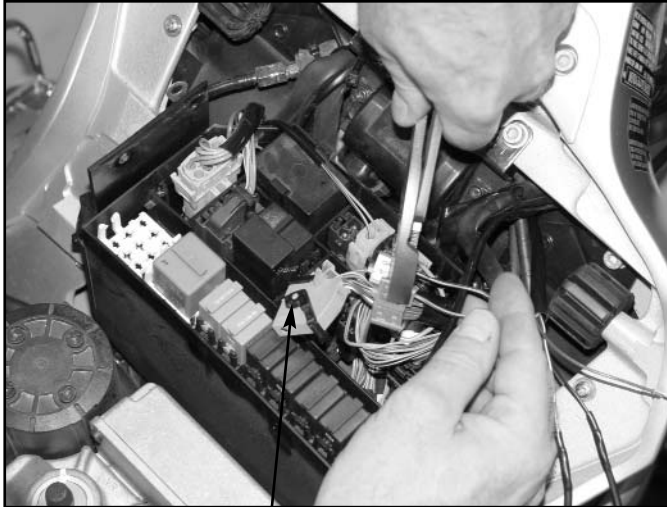


Figure 18

Blue Connector, Disconnected

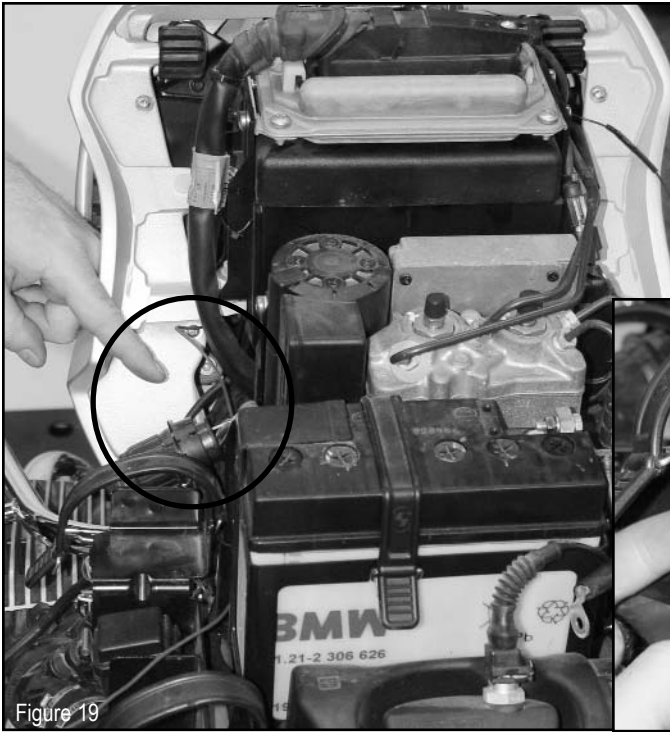


**Identify the BLUE connector plug in the center of the Electrical Box. It may be disconnected for convenience.**

3. Using the supplied Scotch-Lock connectors, connect the wires from the Gauge Harness in the following manner: (**Figure 18.**)

**From the Gauge Harness, connect the Gray wire to the Gray with Blue tracer from the Blue plug.**

**From the Gauge Harness, connect the Green wire to the Green with Black tracer from the Blue plug.**



4. From the Gauge Harness, route the red wire along the left side of the chassis.

There is a 2-pin connector at the rear of, and just below, the tool kit holder.

Connect the red wire from the Gauge Harness to the red wire with the white tracer that goes into the back of the 2-pin connector.

**Figure 19.**

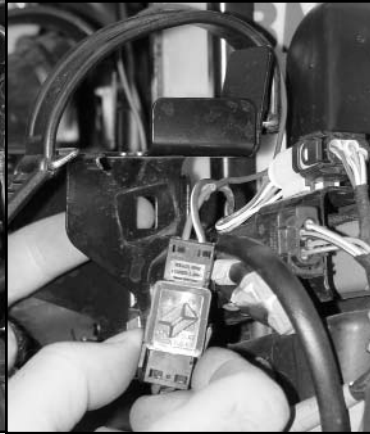


Figure 19

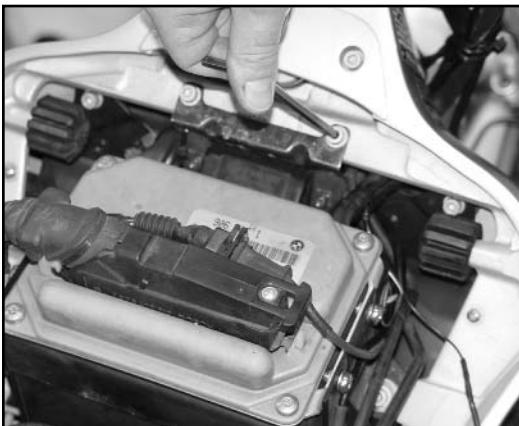


Figure 20

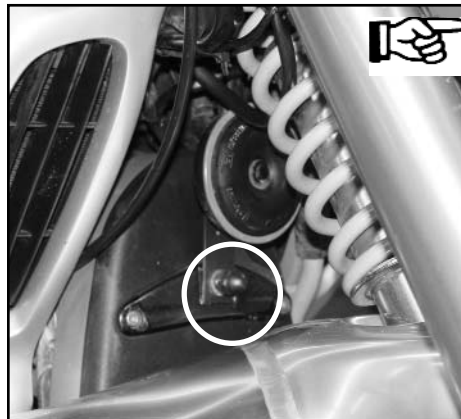


Figure 21

To perform the next wiring step it helps to remove the screws from the coil bracket, at the top of the chassis in front of the Electrical Box and remove the horn. **Figure 20 and 21.**

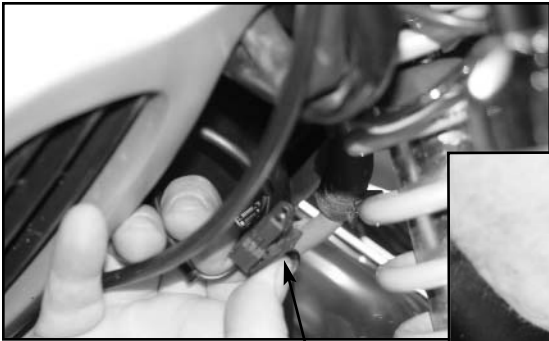


Figure 22

Catch on Plug to Coil

Squeeze Catch and Pull from Coil



Refer to Figure 22 to remove the plug for ease of installing wire.

5. From the Gauge Harness, run the Black wire in front of the Electrical Box and then under the ignition coil. Connect the Black wire to the Black wire that plugs into the coil. **Figure 23 and 24.** After connecting the Black wire, install the plug back onto the coil and re-install the coil bracket screws.

**Re-install the horn.**

6. Carefully install the cover to the Electrical Box. Use the supplied tie-wraps to secure the wire harnesses in place.

7. Plug Wire Sets from gauges into Harness from Z9510 Kit. **Figure 25.**

7. Reinstall the Motronic unit.

8. At the front, right screw for the Motronic unit, attach the brown wire from the Gauge Harness. **Figure 26.**

9. Connect the battery, the Clock will now start. See Clock Adjustment.

10. Turn the ignition key on and verify that the lights in the Clock and Tachometer turn on.

11. Reinstall the Fuel Tank.

12. Start the motorcycle. The Tachometer will function.

**Clock Adjustment.** Access the Clock Adjuster through the lower hole in the Gauge Bracket. Push the button and the Clock will advance.

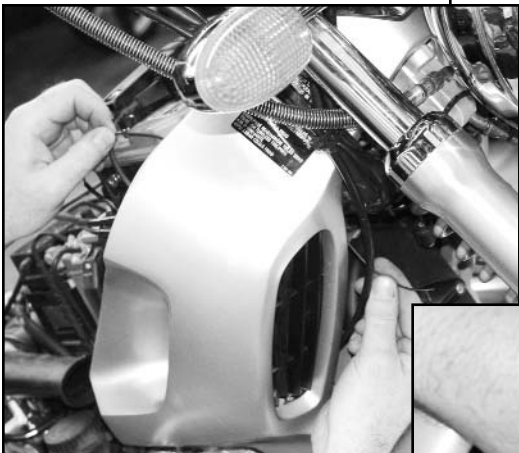


Figure 23

Figure 24

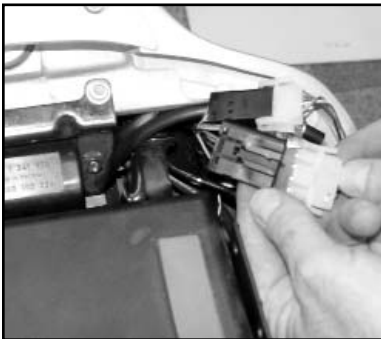


Figure 25

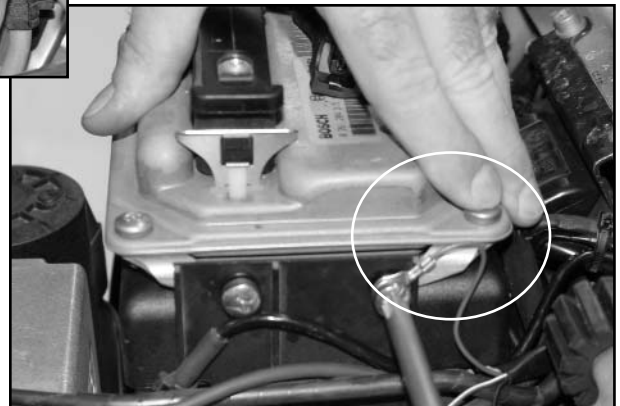


Figure 26

### Maintenance

Clean Chrome Gauge Bracket with a chrome cleaner / polish and soft cloth.