Back Road Equipment Slider Rear Rack Installation Instructions Yamaha WR250R

Tools Required:

10 mm combination wrench
3/8” drive ratchet
14mm socket
12mm socket
4 mm hex wrench
5 mm hex wrench
1/8” drill bit
1/4” drill bit
21/64” drill bit
step drill bit up to 5/8”
electric hand drill
marking pen
Torque wench
4mm hex bit (for torque wrench)
5mm hex bit (for torque wrench)

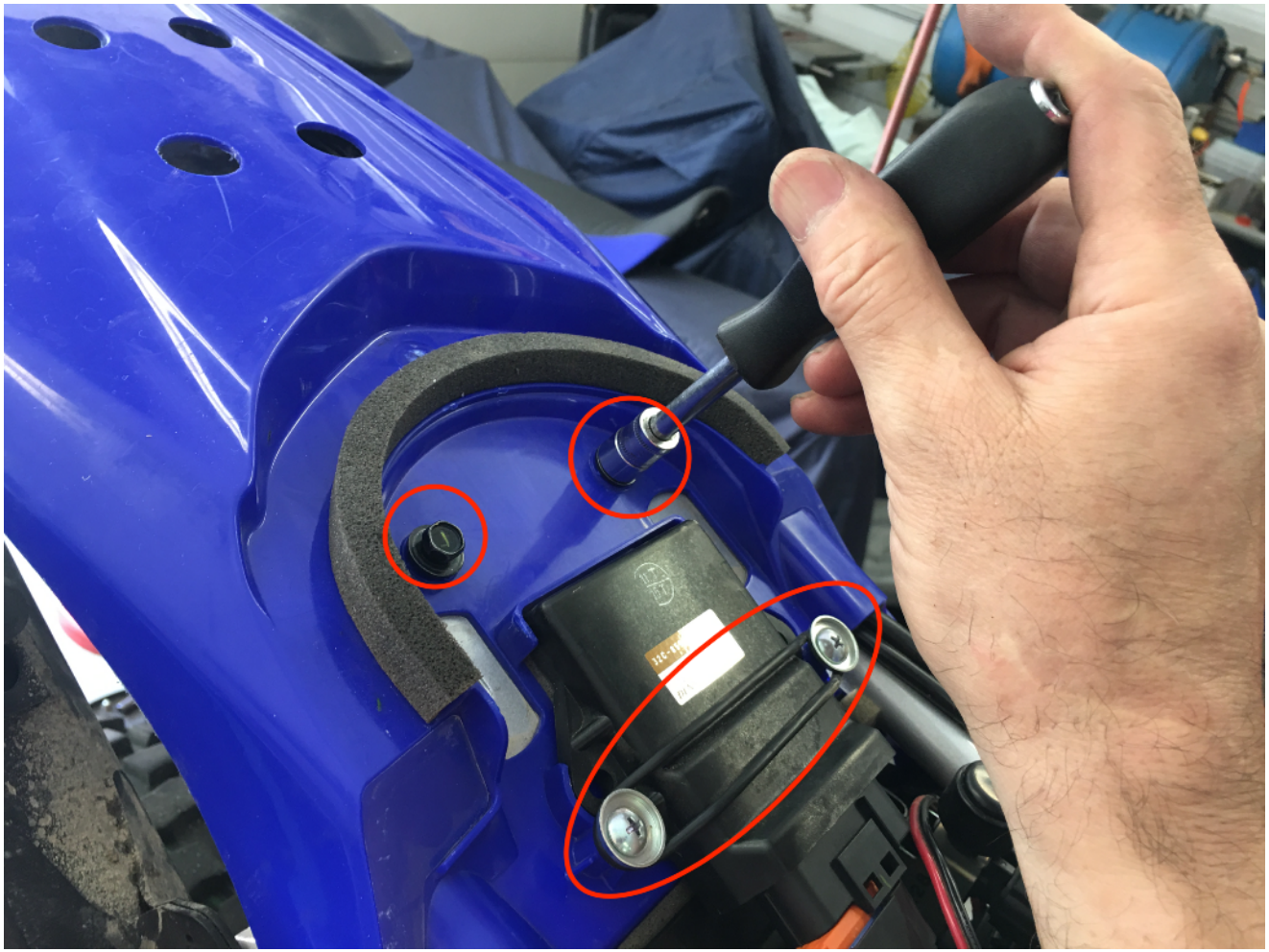
- Kit Contents:
- 1 Slider Plate with cam lever
- 4 - pucks
- 4 – 8mm Button Head Screws
- 4 - 38mm diameter aluminum washer
- 4 – M6 x 60 SS flat head screws
- 4 - M6 x 18 SS flat head screws
- 6 - M6 x SS washers
- 6 - M6 nylock nuts
- 4 - aluminum 19mm x 42mm spacers
- 1 - aluminum 29mm x 12mm spacer
- 1 - aluminum 22mm x 42
- 1 - RH steel mounting tube
- 1 - LH steel mounting tube
- 1 - M10 x30 flange head bolt
- 1 - M8 x 170 flange head bolt
- 1 - M6 x 15 flange head bolt (optional)
- 1 - M6 lock nut (optional)
- 1 - SS helmet lock relocate plate (optional)

go to backroadequipment.com for installation instructions

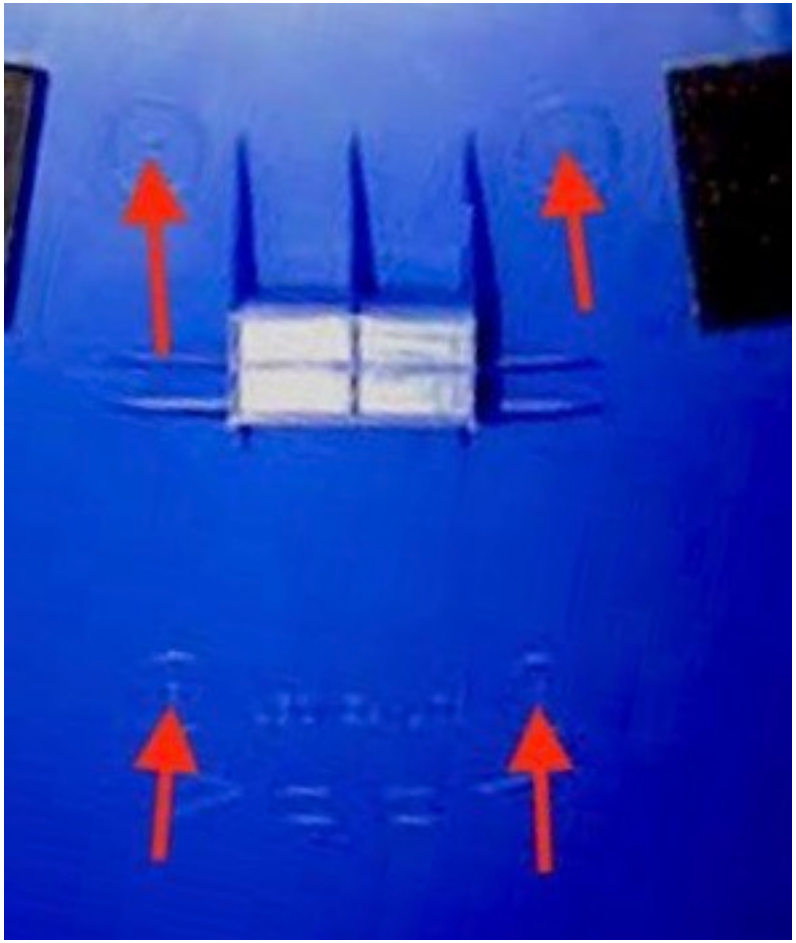
Do not exceed the OEMs recommendation for weight on the rear rack of the motorcycle!!

In order to properly locate the top box it will be necessary to install, remove and re-install the BRE rack, please keep this in mind and read through the instructions completely before starting the work.

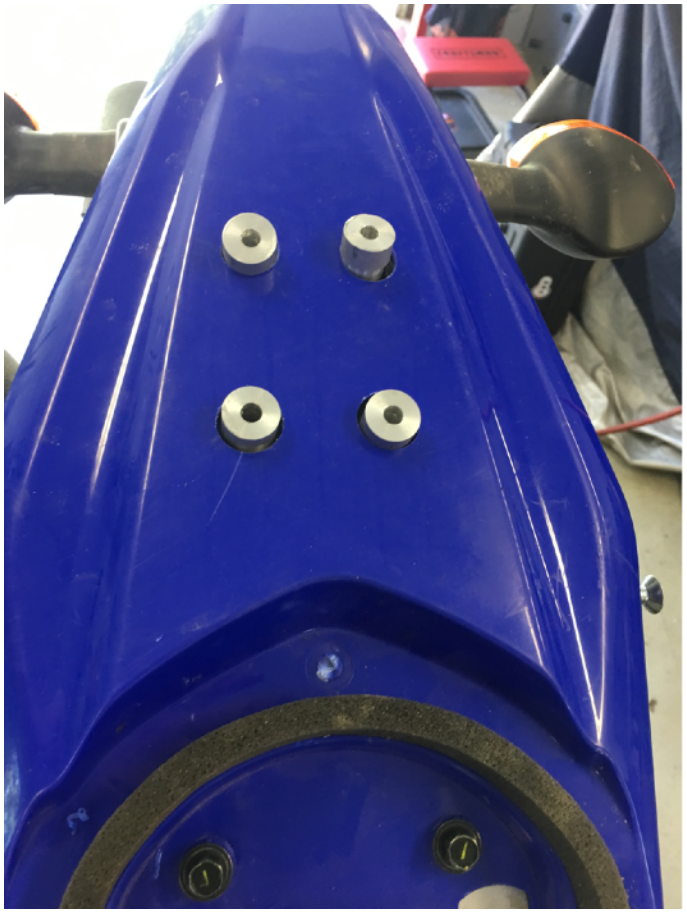
Step 1 Unthread the 2 bolts that retain the seat and remove the seat.



Step 2 Remove the 2 bolts that retain the fender and remove the rubber o-ring that retains the ECU.

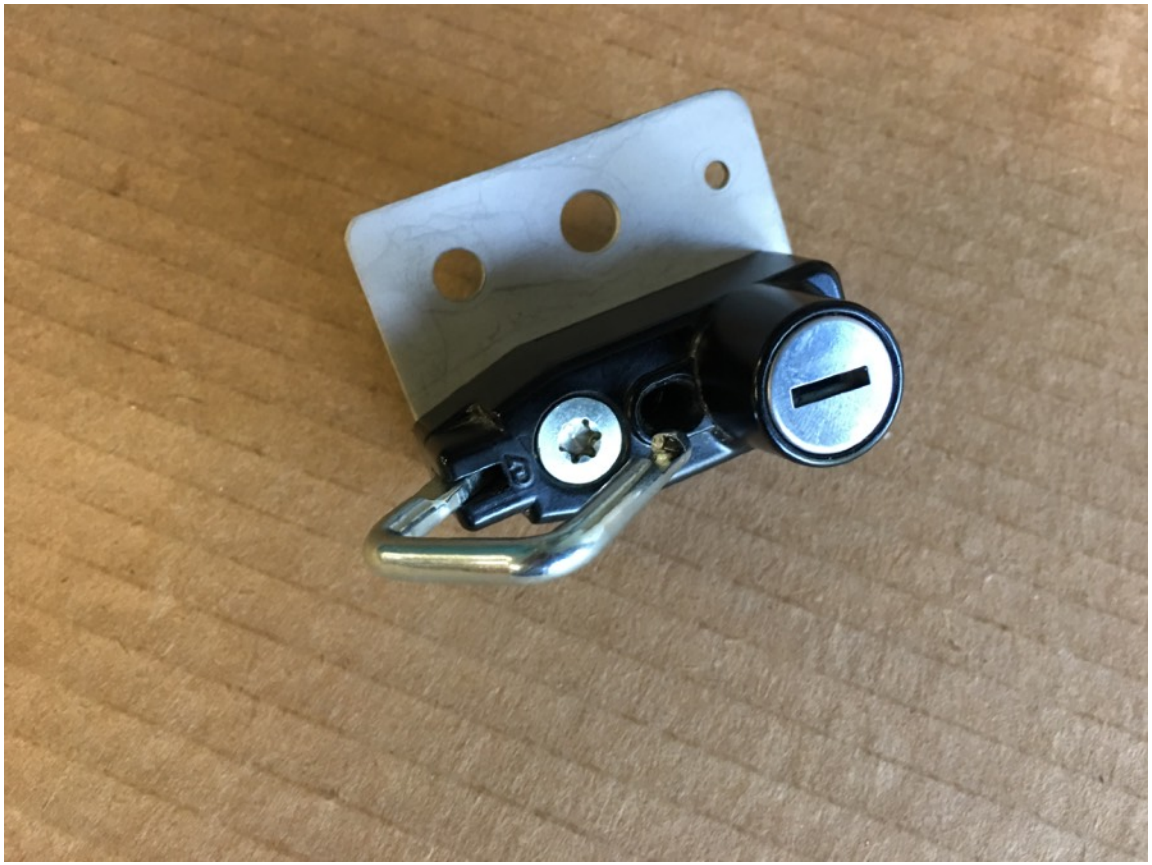


Step 3 Remove the rear fender and turn upside down. Locate the 4 circular rack mounting markers. Use an 1/8” drill bit to drill the center of each circle. Enlarge the holes with a step drill to 3/4”.



Step 4 Reinstall the rear fender on the motorcycle and insert the four long 19mm aluminum spacers into the fender holes. Tighten the fender mounting screws and reinstall the ECU o-ring.

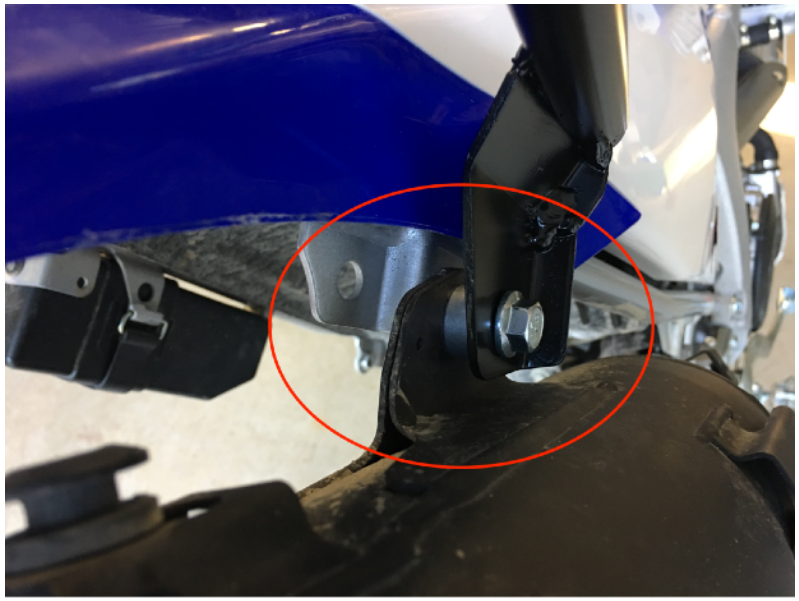
Step 5 Install the slider plate with the four 60mm flat head screws. Install flat washers and lock nuts on the bottom of the front screws and thread the rear screws into the subframe. Tighten all screws with a 4mm hex driver. A 10 mm wrench or socket will be needed to hold the lock nuts on the front screws.



Step 6 Remove the helmet lock from the motorcycle and attach to the lock relocation bracket with the OEM screw and a BRE supplied M6 lock nut.
Note: Installing the OEM helmet lock is optional.

Step 7 Attach the left hand BRE tube with the M8 x 70 screw. The screw will pass through the tube bracket, the large diameter spacer, the small diameter spacer and the helmet lock relocation bracket. Hand tighten the screw at this time. **Note:** Installing the OEM helmet lock is optional.

Step 8 Insert two M6 x 18 flat head screws into the plate and through the mounting tabs on the left hand BRE tube. Install M6 washers and locking nuts do not tighten nuts at this time.



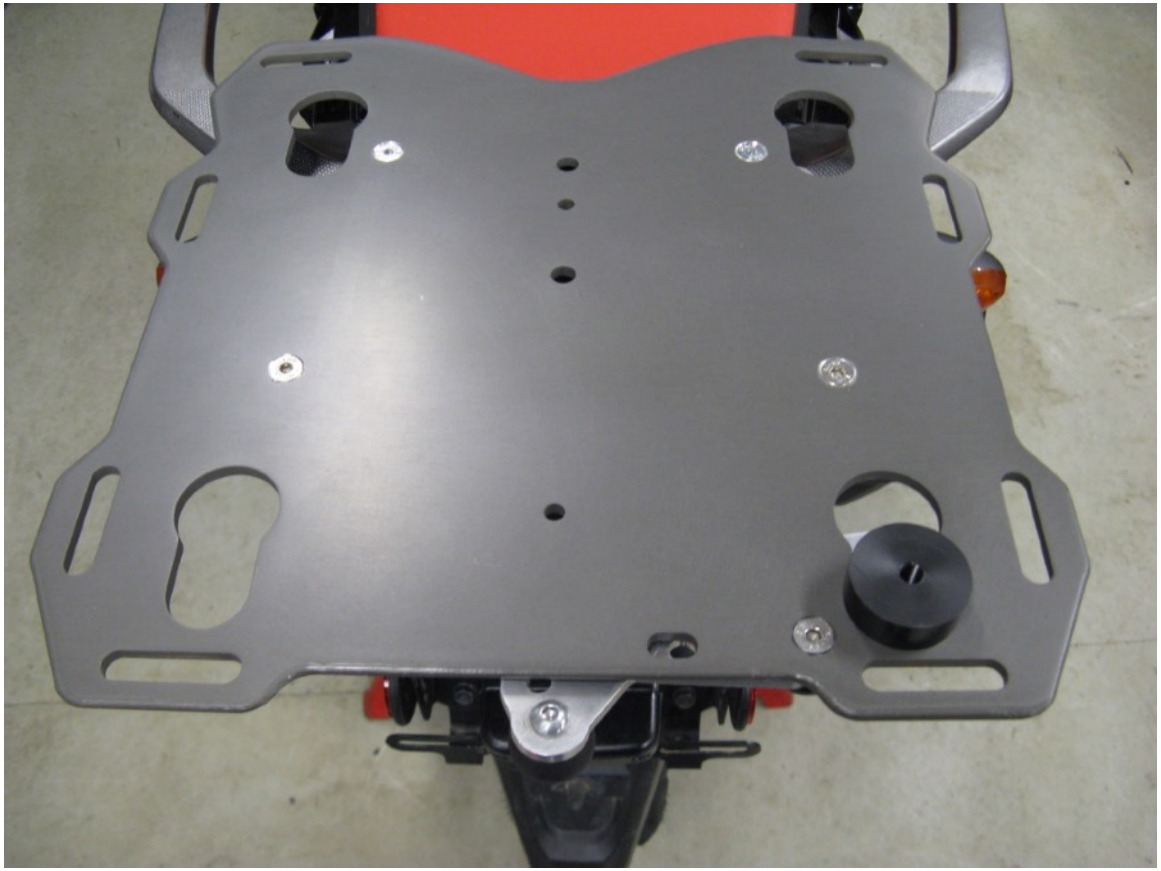
Step 9 Remove the muffler mounting bolt and install BRE right hand tube and 19mm x 12mm aluminum spacer with BRE M10 x 30 muffler mounting bolt, do not completely tighten bolt at this time.

Step 10 Insert two M6 x 18 flat head screws into the plate and through the mounting tabs on the right hand BRE tube. Install M6 washers and locking nuts do not tighten nuts at this time.

Step 11 Snug the M8 and M10 tube mounting bolts so their is no clearance between the mounting brackets and the subframe but do not apply final torque.

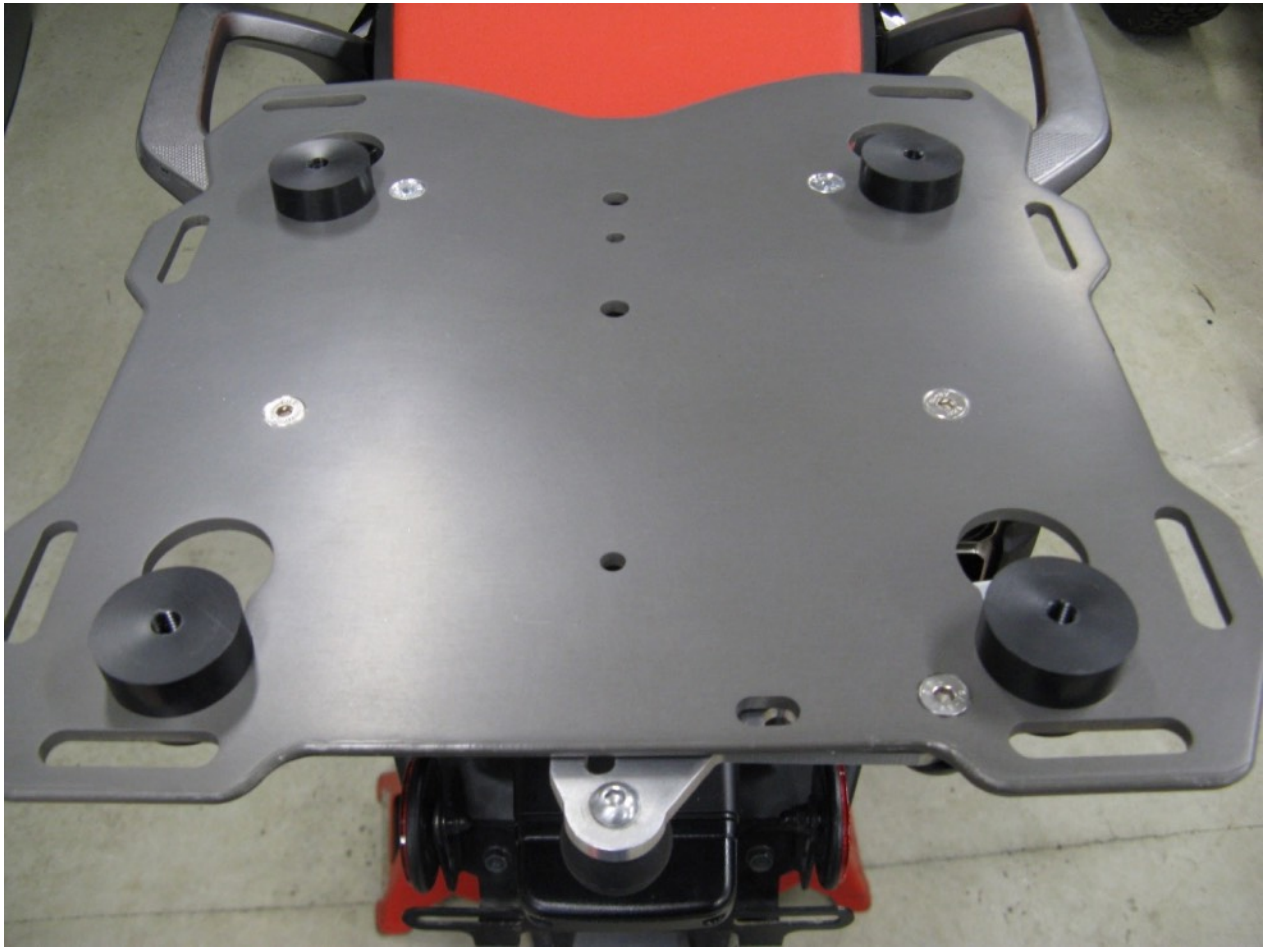
Step 12 Tighten all 4 M6 flat head screws with 4mm hex wrench and 10mm socket wrench.

Step 13 Perform final tighten/torque on M8 and M10 bolts.

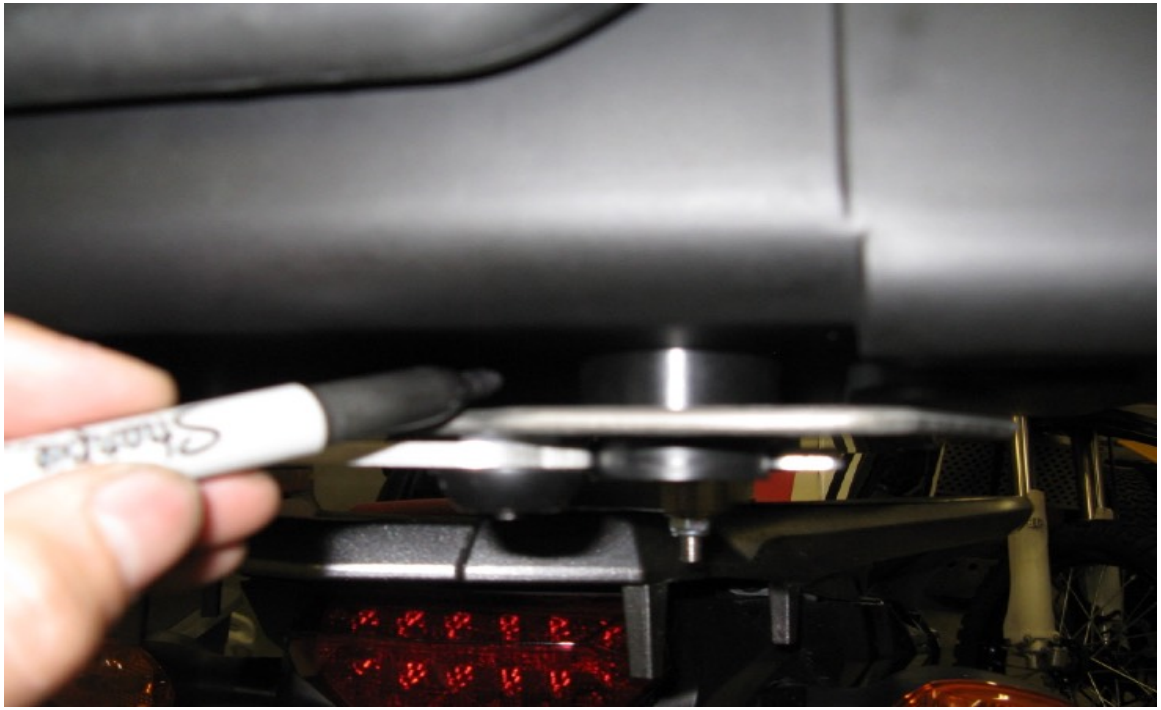


Step 14 Install one of the black plastic pucks into the key hole with the cam lever. Lock the puck into place with the cam lever. This will be referred to as the “Master Puck”

Note: Remove the large washer and screw from the puck before putting into the plate. The screws and washers are installed into the pucks for shipment as part of our QA process.



Step 15 Insert the 3 remaining pucks into the keyholes in the plate.



Step 16 Position the box on top of the pucks. Determine the fore/aft location (side to side will be determined later). Position the box as far forward as possible without interfering with passenger comfort. Also consider if you will be placing any gear on the seat or if you want to be able to remove the seat with the box in place. Use a marker to mark the master puck location on the box.

Step 17 Place the box on a table or other work surface.

Place the Slider plate on top of the bottom of the box. **Note:** The plate will have to be removed from the bike, the BRE tubes can remain on the bike, remove just the 4 M6 x 60 and the M6 x 18 screws to remove the plate.

Step 18 Locate the puck marker on the box and align the master puck up with the mark as it was on the bike.

Adjust the box side to side and make any final adjustments to the location.

Step 19 Make certain the plate is positioned on the box where you would like it. A helping hand would be useful during the next few steps but it can be done solo.

With a ¼" drill bit and electric drill use the master puck as a drill guide and drill a pilot hole through the box.

Step 20 Remove the rack from the box. Use the 21/64” drill bit and electric drill to enlarge the ¼” pilot hole

Step 21 Use the 5/16” button head cap screw and 1 ½” aluminum washer to attach the master puck to the case.

Step 22 Place the rack with the other 3 pucks onto the master puck and latch it into position. Square up the plate and box to each other (last chance).

Step 23 With the ¼” drill bit, use the puck diagonally across from the master puck as a drill guide and drill a second pilot hole in the box.

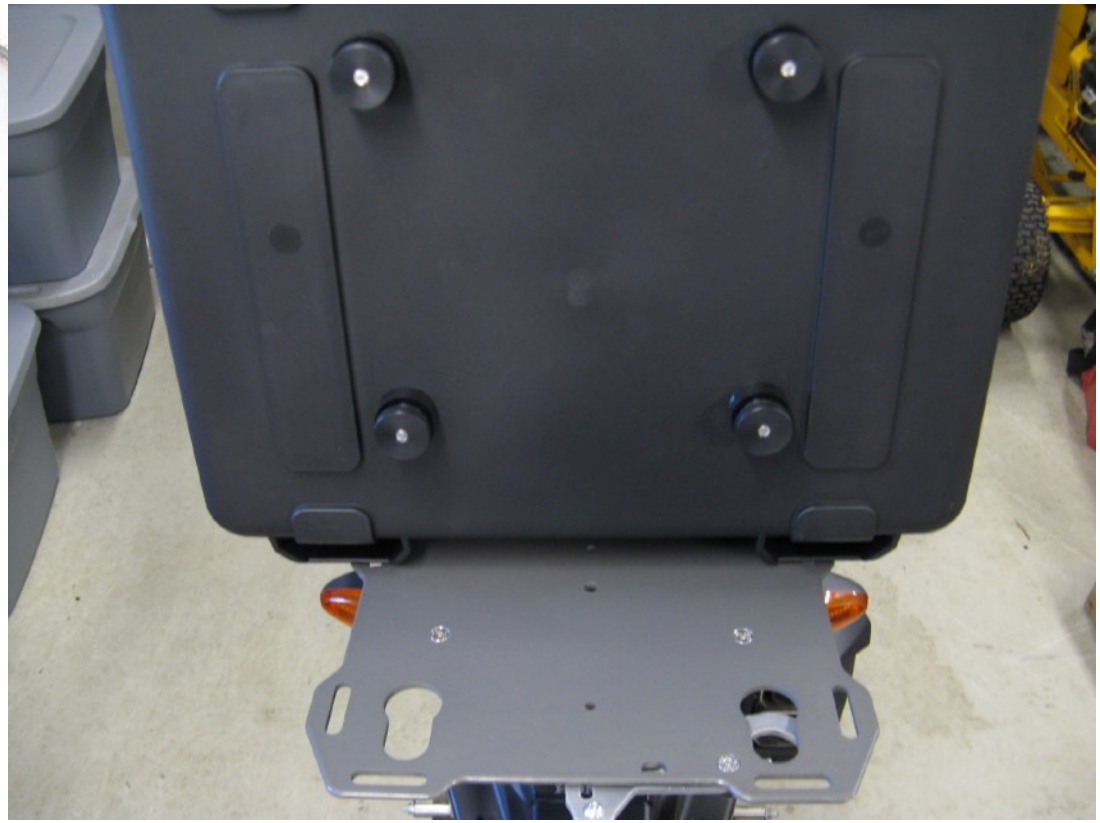
Make sure the pucks are seated in the keyholes before drilling!!

Step 24 Remove the plate and pucks from the box. Use the 21/64” drill bit and electric drill to enlarge the pilot hole.

Step 25 Bolt the second puck to the box. Place the plate on the box and latch it into position. With the ¼" drill bit use the 2 remaining pucks as drill guides and drill the last 2 pilot holes.

Make sure the pucks are seated in the keyholes before drilling!!

Step 26 Remove the rack and pucks from the box. Use the 21/64” drill bit and electric drill to enlarge the last 2 ¼” pilot holes.



Step 27 Install all pucks onto the box using the 1 ½” aluminum washers and 5/16” button head cap screws.

Lightly snug the puck screws at this time, later they will be fully tightened.

Step 28 Re-install the plate on the mounting points following steps 5-13.

Step 29 Install the box onto rack and latch it into place with the cam lever.

Step 30 Torque the puck screws to 108 in. lbs.

That completes the installation process. Test ride the motorcycle and then check all the fasteners for tightness. Also check the fasteners again after 1000 miles and at every oil change after that.

For security a 3/16” pad lock can be used to lock the cam lever in the closed position.

Thank You