

BRITISH CUSTOMS

18426 South Broadway
Gardena, CA 90248
Toll Free: +1 (877) 999-BRIT support@british-customs.com
www.british-customs.com

STREET SCRAMBLER *Competition Header Kit*



You must know how to remove and replace your stock exhaust in order to install this product otherwise have it installed by a professional mechanic. Keep all stock parts from your existing system as some components may be necessary to install your new British Customs exhaust depending on the application. Read through all instructions before beginning installation. Exhaust system can be extremely hot. Let motorcycle cool down before beginning installation. Always wear hand and eye protection and take precautionary measures to avoid injury.

CAUTION: Exhaust system can be extremely hot. Let motorcycle cool down before beginning installation. Always wear hand and eye protection and take precautionary measures to avoid injury.

WARNING: Always properly support vehicle with a stand and/or lift when servicing or performing any work.

Unstable vehicles may present dangerous conditions and may cause property damage and/or personal injury.

WARNING: Observe the warning advice given in the General Information section on the safe handling of fuel and fuel containers.

A fire, causing personal injury and damage to property could result from spilled fuel or fuel not handled or stored correctly.

NOTE: Read through all instructions before beginning installation.

Removal

1. Remove Riders Seat

Note: If the passenger seat is fitted, it must be removed prior to removing the rider's seat.

If the luggage rack is fitted, the rider's seat can be removed without removing the luggage rack.

Passenger Seat

1. Remove the screws securing the seat to the luggage rack sub frame.
2. Lift the seat up from the back and slide rearwards for complete removal from the motorcycle.

Riders Seat

3. Insert the ignition key into the seat lock and turn it counter-clockwise while pressing down on the rear of the seat.
4. Lift the seat up from the back and slide rearwards for complete removal from the motorcycle.
2. Disconnect the battery, negative (black) lead first.
3. Exhaust Silencer Removal
 1. Remove the center heat shield by removing the two 5mm allen screws and the shouldered washers.
 2. Loosen the 5mm allen clamps securing the silencers to the catalytic converter.
 3. Remove the 5mm allen screw securing the rear of the silencers together.

4. Support the upper silencer, remove the rear mounting bolt with 12mm socket and carefully slide the silencer toward the rear of the bike to remove.

5. Support the lower silencer, remove the rear mounting bolt with 12mm socket and carefully slide the silencer toward the rear of the bike to remove.

4. Loosen the 5mm allen clamp securing the left hand header pipe to the catalytic converter (located behind the radiator.)

5. Remove Right Hand Header

Note: To remove the right hand header, you need to partially remove the fuel tank to access the oxygen sensor harness under the fuel tank.

1. Remove the 10mm nut and 8mm bolt securing the rear of the fuel tank to the frame.

2. Slide fuel tank toward rear of motorcycle approx. 5 inches to access oxygen sensor harness.

Note the routing of the oxygen sensor harness for installation.

The oxygen sensor electrical connections must not be

swapped between cylinders.

If the connections are swapped over, engine malfunctions will occur.

The right hand (Cylinder 2) oxygen sensor connector on the main harness has a red connector (main harness side).

The oxygen sensors are NOT marked. Always ensure the right hand oxygen sensor harness is connected to the main harness connector with the red connector.

3. Disconnect the oxygen sensors from the main harness.

4. Slide fuel tank forward into original position and loosely secure rear of fuel tank to the frame with 8mm bolt and 10mm nut.

5. While supporting the catalytic converter, remove the two 12mm nuts and the finned clamps securing the right hand exhaust header pipe to the cylinder head. Remove the catalytic converter.

6. Remove oxygen sensor from right hand head pipe flange.

Installation

1. Install British Customs left hand head pipe onto factory left hand head pipe and tighten 5mm allen clamp (located behind radiator.) Do not torque at this time.



2. Install factory oxygen sensor in British Customs right hand head pipe flange.
3. Install right hand header pipe to the cylinder head, finned clamps, and secure with 12mm nuts. Do not torque at this stage.

Note: Install British Customs clamp with tab, on the rear of the lower head pipe with tab positioned on outside of pipe.



4. Remove the 10mm nut and 8mm bolt securing the rear of the fuel tank to the frame.
5. Slide fuel tank toward rear of motorcycle approx. 5 inches to access oxygen sensor harness.

Note the routing of the oxygen sensor harness for installation.

The oxygen sensor electrical connections must not be swapped between cylinders.

If the connections are swapped over, engine malfunctions will occur.

The right hand (Cylinder 2) oxygen sensor connector on the main harness has a red connector (main harness side).

The oxygen sensors are NOT marked. Always ensure the right hand oxygen sensor harness is connected to the main harness connector with the red connector.

6. Route the oxygen sensor harness as noted for removal and connect to the main harness as noted for removal.

7. Slide fuel tank forward into original position and secure rear of fuel tank to the frame with 8mm bolt and 10mm nut, and torque to **8 Nm. (5.9 ft-lb)**

8. Position lower silencer onto lower head pipe (right hand), insert the 12mm rear mounting bolt and tighten, but do not torque at this stage.



9. Position upper silencer onto upper head pipe (left hand), insert the rear 12mm mounting bolt and tighten, but do not torque at this stage.

Note: The upper silencer heat shield tab should be on the outside of the lower silencer heat shield tab.



10. Tighten right hand cylinder head nuts with 12mm wrench/socket and torque to **19 Nm. (14 ft-lb)**



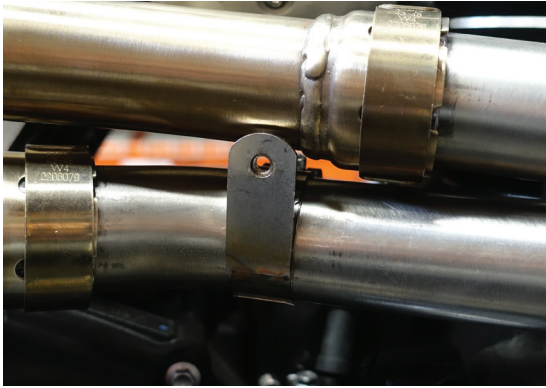
11. Tighten and torque left hand head pipe clamp (behind radiator) to **10 Nm. (7.38 ft-lb)**



12. Fit the 5mm screw securing the rear of the exhaust silencers together and tighten to **10 Nm. (7.38 ft-lb)**



13. Position the silencer clamps, securing silencers to the head pipes and torque to **10 Nm. (7.38 ft-lb)**



14. Tighten the silencers rear mount bolts with 12mm socket and torque to **19 Nm. (14 ft-lb)**

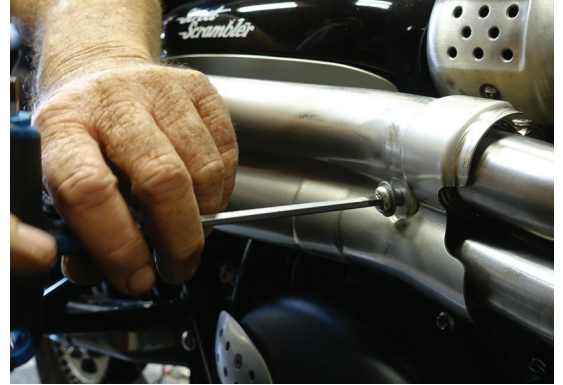


15. Position only the inner heat shield cover of the center heat shield to the silencers, fit the shouldered washers, insert only the rear screw, and tighten.

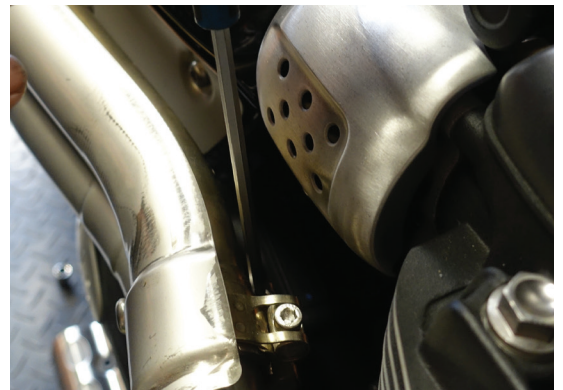
Note: Only use the inner shield at this time to locate front tabbed clamp for center heat shield.

16. The front heat shield mount is located on the tabbed clamp placed into position noted on Step 3.

17. Locate tabbed clamp into position, fit the heat shield to tab. Insert shouldered washer and screw through front heat shield hole, tighten screw.

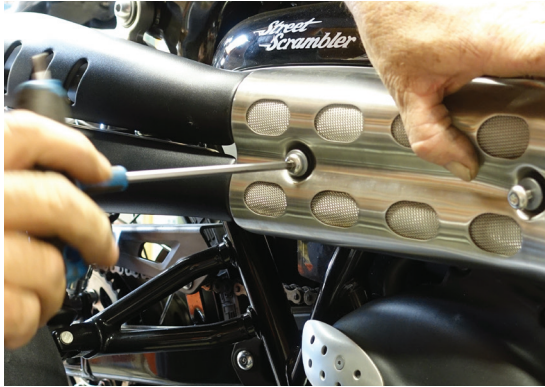


18. On back side of headers, tighten and torque tabbed clamp to **10 Nm. (7.38 ft-lb)**



19. Remove the two screws and shoulder washers from center heat shield.

20. Now, position the inner and outer covers of the centre heat shield to the silencers, fit the shouldered washers, screws and tighten to **6 Nm. (4.43 ft-lb)**



21. Reconnect the battery, positive (red) lead first and tighten the terminals to **4.5 Nm. (3.3 ft-lb)**
22. Refit the Riders Seat.
23. Refit the Passenger Seat (if removed.)
24. Before starting motorcycle, check for proper clearance between new exhaust system and rear suspension (i.e. tire, swing arm, brakes, rear shock, and etc.) If any problem is found, please carefully follow through the installation steps again. If problem still persists, please call **British Customs Customer Support at (877) 999-2748.**

25. The muffler and tailpipe should be wiped down with rubbing alcohol to remove oil and fingerprints before starting the motorcycle. This will help prevent tarnishing of the finish after the exhaust is heated up.