



2000-17 HD SOFTAIL

Stainless Steel 2-2 "X-Box" Full System
Part # 005-4930199D



BILL OF MATERIALS

1	TBR Muffler Top	005-493-MT
1	TBR Muffler Bottom	005-493-MB
1	TBR Header Kit	005-49301H
1	Muffler Bracket	005-493-B
1	TBR Long Heat Shield	005-493-HS2
1	TBR Short Heat Shield	005-493-HS1
2	TBR Header Flange	005-493-15
2	O2 Sensor Plug Kit	005-92-22KIT
3	8mm x 10mm ID Spacers	005-S-8-10
3	Bolt 3/8" - 16 x 1 1/4" Socket head	005-SH38114
4	Bolt 8 x 16mm Socket Head	005-SH816
4	Hose Clamps	005-64024
2	Barrel Clamps	005-27-68MSH
1	Sticker Kit	

INSTALLATION INSTRUCTIONS

* For images, please reference page 3 & 4 of these instructions.

1. Make sure the motorcycle is completely cool before starting the installation.
2. Remove the OEM heat shields, mufflers, and bracket. (Reference Image 1)
3. Unplug the front and rear O2 sensors, if necessary for your model. (Reference Image 2 & 3)
4. Remove the header bracket bolt and headers completely from the motorcycle. (Reference Image 4)
5. Remove the header bracket from the bike and replace the transmission bolts. (Reference Image 5)
6. Next assemble the TBR mufflers and included bracket as shown. Use the supplied 8x16mm bolts and red thread locker to secure the mufflers to the bracket. Also line the mufflers up to the TBR headers to ensure they are properly spaced apart. (Reference Image 6 & 7)
7. Remove the OEM header clips and O2 sensors (if you have O2 sensors). Now install the included TBR flanges, OEM clips, and sensors on the new TBR headers. If your motorcycle is carbureted, you will need to plug off the O2 sensor ports. (Reference Image 8, 9, & 10)
8. Now remove the brake controls to allow installation to be easier. (Reference Image 11)
9. With the flanges slid into place on the headers, install the TBR headers keeping the flange nuts loose. These headers are very tight to the head and may need some assistance to install - it is important that you use the TBR flanges, and not the stock flanges. (Reference Image 12)
10. With the headers loosely installed, install the included barrel clamps onto the headers. Be sure to grease the clamp bolts ahead of time to ensure a tight clamp on the muffler. (Reference Image 13)
11. With the clamps in place, install the TBR muffler assembly. (Reference Image 14)
12. Locate the included 3/8" bolts and spacers. You will need to install these bolts and spacers to properly space out the muffler bracket from the motorcycle. (Reference Image 15)
13. With the bracket in place, ensure the mufflers are level with the ground and begin to tighten all 3 bracket bolts. (Reference Image 16)
14. Now you can tighten the barrel clamps and header flange nuts to secure the system in place.
15. Once the exhaust system is fully tightened down, you can go ahead and reinstall the brake controls. Feel free to install the heat shields at this time as well, if desired. (Reference Image 17)
16. Before you run the bike, clean off all fingerprints and dirt, as any oily residue will etch the metal and become somewhat permanent when the system gets hot. Run the bike and enjoy. It is normal for some white smoke to appear the first time you start the bike. This is packing/manufacturing oil from inside the pipe burning off. Check for gaps or leaks. If you find a leak, a little high temperature silicon sealant should fix it. After 50 to 100 miles, recheck all fasteners for tightness.

IMPORTANT - PLEASE READ CAREFULLY: We recommend that this performance part be installed by a qualified motorcycle technician. If you have any doubts as to your ability to install this performance part, please consult with your local motorcycle dealer. Read all instructions first before starting installation. Make sure the motorcycle and exhaust system are completely cool before starting the installation. Also, make sure the bike is secure on a center stand or ideally a service lift during installation. Be sure to save all stock components for possible use later.

WARRANTY: Two Brothers Racing products are intended for closed course competition purposes only, and therefore are sold "as is" without warranty. Two Brothers Racing specifically disclaims any warranties of merchantability or fitness for a particular purpose and disclaims all responsibility for consequential and incidental damages or any other losses arising from the use of these products or parts.

Care & Cleaning

Keep system free of dirt and moisture. Store in a cool, dry place. Make sure vehicle is completely cool before maintenance.

Stainless Header System: Polished stainless steel pipes will turn a light golden hue after a few heat cycles, this is a normal characteristic of high quality stainless steel. Clean using a mild water based spray cleaner. Always apply cleaner or polish with a soft, clean cloth.

Titanium Header System: Polished titanium pipes will experience color shift ranging from deep blue/purple through amber after a few heat cycles. This is a normal characteristic of high quality titanium. Clean using a mild water based spray cleaner. Always apply cleaner or polish with a soft, clean cloth.

Polished Aluminum Canisters: Use an aluminum or mag wheel polish to restore the bright finish to factory spec.

Brushed Aluminum Canisters: Clean using a mild water based spray cleaner. Always apply cleaner or polish with a soft, clean cloth.

Carbon Fiber Canisters: Clean using a mild water based spray cleaner. Always apply cleaner or polish with a soft, clean cloth. Always make sure the fiberglass packing inside is in good condition and not burned out, as exhaust heat inside an empty canister will deteriorate the carbon fiber sleeve. TBR sells repack kits (Road - #005-10038, Offroad - #005-10038MX) that include everything you need to easily do it yourself.

Titanium Mufflers: For cleaning use a mild water based spray cleaner. Always apply cleaner or polish with a soft, clean cloth. Always make sure the fiberglass packing inside is in good condition and not burned out, as exhaust heat inside an empty canister will deteriorate the carbon fiber sleeve.

TBR sells repack kits (Road - #005-10038, Offroad - #005-10038MX) that include everything you need to easily do it yourself.

Repack all road canisters at the first signs of packing material deterioration. Part #005-10038

Repack all offroad canisters after every 10 hours of use. Part #005-10038MX

NEVER dyno test your bike with carbon fiber or titanium canisters installed - the intense heat and lack of cooling air can quickly burn through the canister material. Two Brothers Racing does not provide a warranty for burned canisters.



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REFERENCE IMAGES

Image 1

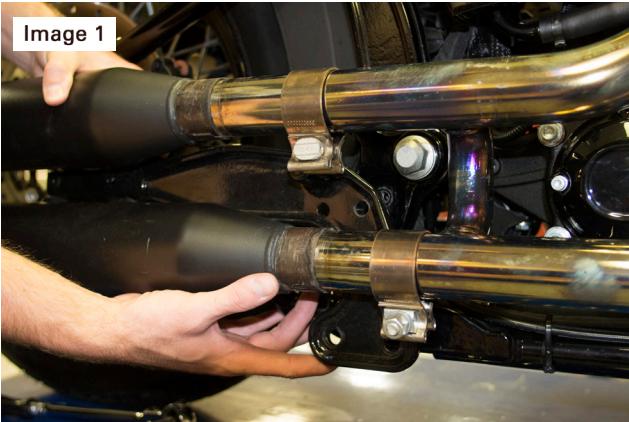


Image 2



Image 3

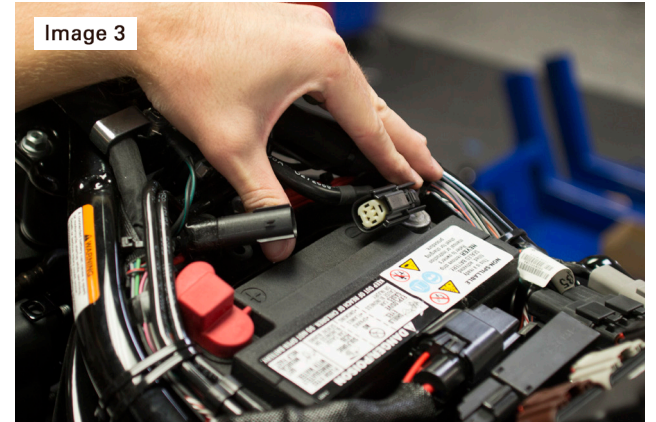


Image 4



Image 5



Image 6



Image 7



Image 8



Image 9



Image 10



REFERENCE IMAGES

