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## 2007-2017 SOFTAIL

Comp-S 2-1 System Part # 005-5210199

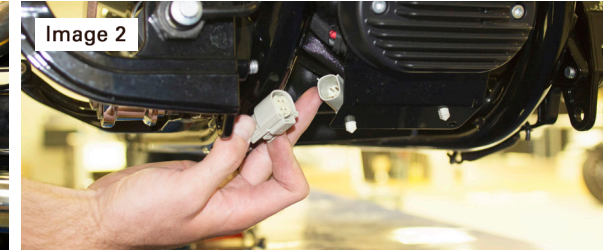


### BILL OF MATERIALS

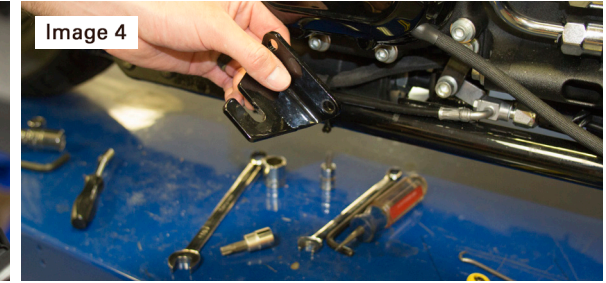
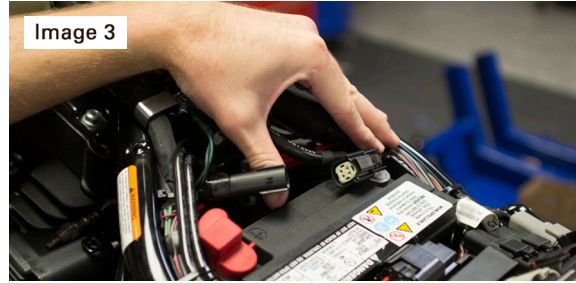
1	Comp-S Muffler	Varies
1	Front Header	005-52101HF
1	Rear Header	005-52101HR
1	Front Heat Shield	005-521-HS1
1	Rear Heat Shield	005-521-HS2
1	Muffler Bracket	005-521-B
1	Muffler Bracket - Wide	005-521-B2
2	Harley 5/16 Clip Nut	005-10-516CN
2	5/16"x3/4" Flange Bolt	005-FB51634
2	O2 Sensor Kit	005-92-22KIT
5	Hose Clamps	005-HC-64024
2	45mm Springs	005-S45
1	Spring Puller	005-SP

### INSTALLATION INSTRUCTIONS

1. Make sure the motorcycle is completely cool before installation, and make sure it is secure on a stand or service lift.
2. Remove OEM heat shields, mufflers and bracket. **(Reference image 1)**



3. Disconnect the o2 Sensors from the head pipes or at the connectors. **(Reference image 2 & 3)**
4. Remove exhaust bracket and remove OEM system from motorcycle. **(Reference image 4)**
5. Install o2 sensors to supplied adapters, adapters not required if using wide band sensors. **(Reference image 5)**
6. Install OEM header flanges and C-Clips from your original system to your new system. **(Reference image 6)**



7. Loosely install your new headers to the motorcycle. **(Reference image 7)**
8. Install the supplied muffler bracket. **(Reference image 8)**
9. Install the supplied clip nuts to the muffler. **(Reference image 9)**
10. Loosely Install your muffler to the headers **(Reference image 10)**

**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.





Image 7



Image 8



Image 9



Image 10

11. Install the muffler to the muffler bracket using the supplied 5/16x3/4 bolts. (Reference image 11)



Image 11



Image 12

12. Install the supplied 45mm springs. (Reference image 12)

13. Install the 5 clamps to the back side of the heat shields then install the heat shields to the header pipes, leave them loose until you have them lined up. (Reference image 13 & 14)

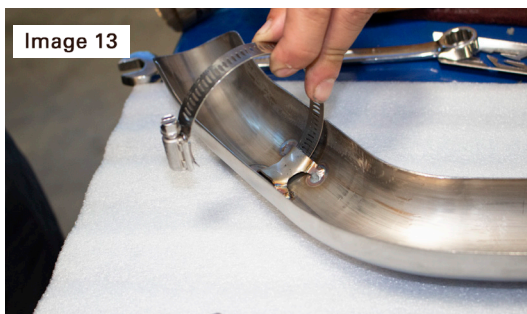


Image 13

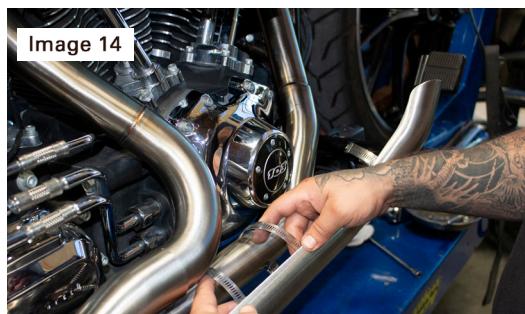


Image 14

14. Tighten all loosely installed hardware now that you have everything lined up.

15. 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. It is normal for some white smoke to appear the first time you start the bike. 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.

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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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