



401 South Grand Ave., Santa Ana, CA 92705  
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**Yamaha**  
**FJ-09**  
Full Exhaust System  
Part # 005-4170105-S1



### Parts List

Qty.	Description	Part Number
1	Muffler	10" Carbon S1
1	Muffler Clamp	Vertical
1	Header Assembly	005-41701H
1	Bracket	005-417-B
2	8x30mm Flange Bolt	005-FB830
2	45mm Swivel Hook Spring	005-S45
1	8x16mm Socket Head Cap Screw	005-SH816
3	8mm Flange Nut	005-FN8
1	Permatex Anti-seize Lubricant	031-P09175
2	Zip Ties	005-ZT458B
1	Air Block Off Plug	005-PLUG-1

### IMPORTANT - PLEASE READ CAREFULLY

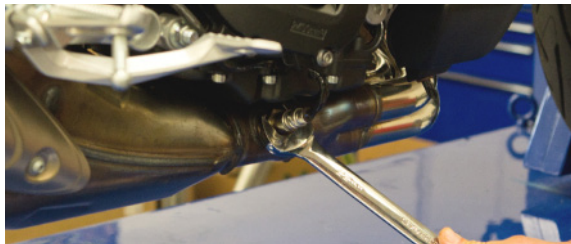
*We recommend that this performance part be installed by a qualified motorcycle technician. If you have any doubts as to your ability to install this performance part, please consult with your local motorcycle dealer. Read all instructions first before starting installation. Make sure the vehicle and exhaust system are completely cool before starting the installation. Also, make sure the vehicle 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.

### Installation Instructions

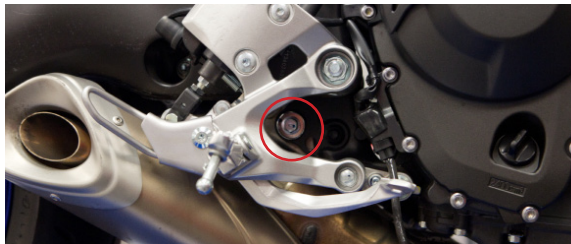
1. Make sure the bike is completely cool before starting the installation. Make sure the bike is secure on the side stand or ideally a rear service stand.
2. Remove center stand.
3. Remove O2 sensor from OEM header pipe.



4. Loosen head pipe hardware.



5. Remove muffler mounting bolts.



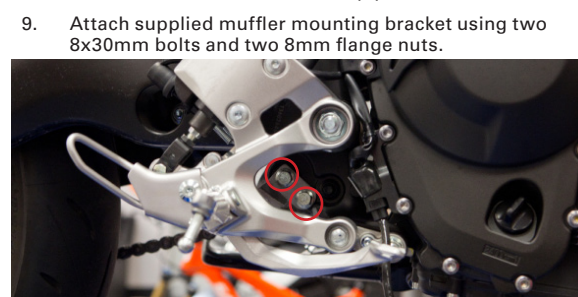
6. Remove OEM exhaust assembly.



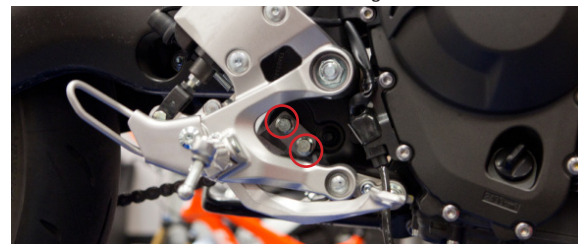
7. Attach the TBR header assembly using OEM hardware and gaskets. Leave loose for now.



8. Apply small amount of anti-seize to O2 sensor threads and install O2 sensor into head pipe.



9. Attach supplied muffler mounting bracket using two 8x30mm bolts and two 8mm flange nuts.



10. Slide S1R muffler clamp over S1R muffler assembly. Note: Direction of muffler clamp for install.



11. Slide muffler onto header assembly and attach with provided springs. Note: Apply a small amount of anti-seize between muffler and head pipe.





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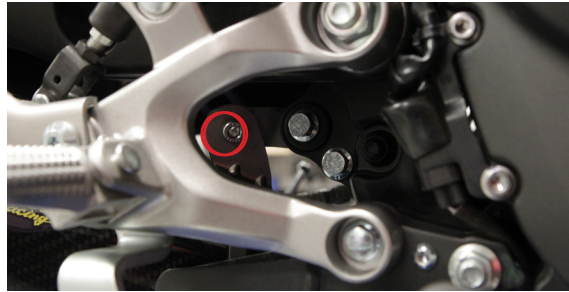


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2	Zip Ties	005-ZT458B
1	Air Block Off Plug	005-PLUG-1

### Installation Instructions

- Attach muffler clamp to bracket using supplied 8x16mm socket head bolt and 8mm flange nut. Leave loose for now.



- Tighten all hardware starting with header, muffler clamp, and bracket.
- Re-install center stand.
- 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.

- Note: Due to the fact that the catalytic converter is no longer present, the PAIR (Pulsed Air Induction Reed) valve is not needed and will not effect performance when eliminated. It is recommended that the PAIR valve be modified to eliminate popping or backfiring on deceleration. Plugging the air line is a simple and effective procedure. This is accessible from the left side of the motorcycle. Start by cutting the pictured air hose and install the provided plug in line. Zip tie both sides of hose over the plug.



### Care & Cleaning

#### 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, Off road - #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, Off road - #005-10038MX) that include everything you need to easily do it yourself.

Repack all road canisters every 3,000 miles. Part #005-10038  
Repack all Off road 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.