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401 S. GRAND AVE., SANTA ANA, CA 92705 - (800) 211-2767

2017 KAWASAKI Z650  
& NINJA 650  
Full System Part # 005-46301-S1R



1	Muffler Canister	S1R Muffler
1	Slip-Tube	005-44601S
1	Header	005-44601H
1	P1 Power Tip (Installed)	005-P1
2	8x35mm Flange Bolt	005-FB835
1	8x16mm Flange Bolt	005-FB816
3	8mm Nylon Lock Nut	005-NN8
1	Mounting Bracket	005-463-B
1	O2 Sensor Kit	005-92-22KIT
1	TBR Sticker Kit	015-10212
1	Spring Puller	005-SP
2	45mm Springs	005-S45
1	Muffler Clamp S1R	005-2C-S1
1	63mm Clamp	005-27-63-MSH
1	Adhesive Backed Heat Tape	005-463-HS

### 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 centerstand 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 bike is completely cool before starting the installation. Make sure the bike is secure on the side stand or ideally a service lift.
2. Remove foot shifter from the motorcycle.



3. Loosen and remove OEM header flange nuts completely, located at the front of the engine just below the radiator. Remove muffler mounting hardware.
4. Remove O2 sensor from the OEM exhaust.
5. Remove OEM exhaust mounting bolt from shifter side of the motorcycle, allowing the entire OEM exhaust to be removed. Install header assembly.



6. Loosely install TBR headers using the OEM flange nuts.



7. Remove O2 sensor routing bracket. Re-install side covers and check for clearance. When muffler is positioned tighten barrel clamp at header joint.



8. Loosely install the TBR slip tube and barrel clamp to the TBR headers.



9. Install TBR mounting bracket using supplied 8x35 bolts and nuts.



10. Slide S1R muffler onto TBR Slip Tube.





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## INSTALLATION INSTRUCTIONS

## CARE & CLEANING

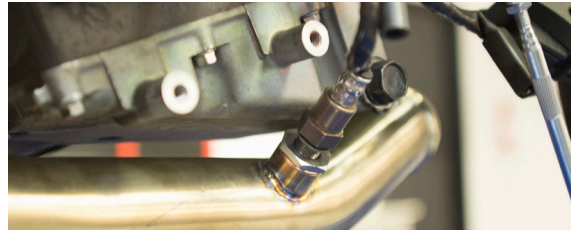
- Slide TBR muffler clamp over muffler and install to TBR bracket using supplied 8x16 bolt and nut.



- Install supplied springs.



- Reinstall O2 sensor onto TBR slip tube using supplied 12mm adapter kit and copper washer.



- Tighten header flanges and barrel clamp.
- Double check your work and check for clearance.
- NOTE: Use heat tape as a barrier between the exhaust and fairings if necessary.**
- 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. Also, remove any plastic film from the name badge(s) and or canister clamp(s). 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.

### 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.