



# HONDA CBR500R

Full System Part # 005-447010X-S1



1	Muffler Canister	10" S1R Muffler
1	Header #1	005-44701H
1	Header #2	005-44701H2
1	Muffler Clamp	005-2C-S1
1	Slip-Tube	005-44704S
1	59mm Barrel Clamp	005-27-59MSH
1	57mm Barrel Clamp	005-27-57MSH
5	8mm Flange Nut	005-FN8
1	O2 Sensor Kit	005-92-22KIT
2	Spring	005-S45
1	Spring Puller	005-SP
1	Anti-Seize	031-P09175
1	TBR Sticker Kit	015-10212

## 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 the bike is completely cool before starting the installation. Make sure the bike is secure on the sidestand or ideally a service lift.

2. Remove the lower right side Plastic to expose header.



3. Remove OEM muffler mounting hardware. (the OEM bolts will be re-used)



4. Remove header mounting hardware and remove header assembly. (the OEM bolts will not be re-used)



5. Attach TBR header to motorcycle, be sure the OEM gaskets are between the header and engine. Use supplied nuts in place of OEM cap nuts.

6. Install mid pipe section to header using the 57mm barrel clamp and secure in place with OEM bolt and supplied nut.



7. Install O2 sensor to header using the supplied reducer.



8. Attach muffler to Slip tube using supplied 45mm springs.



9. Install TBR Muffler assembly using supplied 59 barrel clamp at header joint.



10. Install rubber lined muffler clamp around muffler and secure to previously installed mount. Use OEM bolt and nut.



11. Re-install lower covers and check for clearance. When muffler is positioned tighten barrel clamp at header joint

12. Double check you work to be sure everything is tight

13. 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



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### 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, 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.