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## BMW R1100RT / RS

V.A.L.E.™ Cat Eliminator Exhaust System with M-2 Canister  
Part # 005-9720406M, 005-970408M, 005-970420M



### Parts List

| Qty. | Description                       | Part Number  |
|------|-----------------------------------|--------------|
| 1    | Muffler Canister                  | Varies       |
| 1    | Canister Clamp                    | Varies       |
| 1    | Stainless Steel S-Bend Tube       | 005-9204N    |
| 1    | HARDWARE KIT                      | 005-97-3     |
| 1    | VALE Adapter Kit                  | 005-2-1-V    |
| 2    | 80mm Swivel Hook Spring           | 005-S80      |
| 1    | Muffler Mounting Bracket          | 005-69B-10   |
| 1    | Barrel Clamp                      | 005-27-64MSH |
| 1    | 10x20mm Hex Bolt                  | 005-HB1020   |
| 1    | 8x20mm Socket Head Cap Screw      | 005-SH820    |
| 1    | 10mm Flat Washer                  | 005-WF10     |
| 2    | 8mm Flat Washer                   | 005-WF8      |
| 1    | 8mm Nylon Nut                     | 005-NN8      |
| 1    | Permatex Anti-Seize Lubricant     | 031-P09175   |
| 1    | Permatex Ultra Black Gasket Maker | 031-P22072   |
| 1    | T20 Torx Screw Wrench             | 005-9-15820  |
| 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 center stand or ideally a service lift during installation. Be sure to save all stock components for possible use later.*

### 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. Disconnect the oxygen sensor from the stock muffler assembly and remove the stock canister & catalytic converter (including the rubber mounted hanger block). Do not remove the header pipes.
3. Install the Catalytic Eliminator Collector with the supplied barrel clamps. Do not tighten yet. It may help to loosen, but not remove, the BMW head pipes to ease installation of the Catalytic Eliminator Collector.
4. Reinstall the oxygen sensor onto the Catalytic Eliminator Collector. Use the supplied anti-seize compound to coat the threads for ease of removal later.
5. Install the hanger bracket using the 10mm bolt and washer provided with the kit and secure it to the bike using the same hole that the original hanger used. Be sure to apply a thread locking substance to the bolt. Do not tighten yet.
6. Install VALE adapter kit using the supplied kit instructions.
7. Place a bead of the hi-temp sealant on the outside edge of the s-bend that goes into the canister. Slide the TBR canister onto the end of the S-bend pipe. Wipe off the excess sealant that will squeeze out. Be sure to point the tip of the canister away from the rear tire.
8. Carefully slide the muffler clamp over the muffler. (Note: The stainless steel canister clamp and the name badge on the canister come from the factory with a clear plastic protective film. Please remove this film before operation.) Attach it to the hanger bracket using the 8mm x 20mm bolt, washers and nut provided. Be sure to locate both tabs of the canister clamp on the outside of the hanger bracket. Do not tighten yet.
9. Once everything is aligned and you have proper clearance between the exhaust system and the bike tighten all hardware working from the front of the bike backward.
10. Install the connector springs between the canister and connector pipe.
11. Be sure to allow the sealant to dry per the manufacturer's instructions before starting the bike. 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.

### Care & Cleaning

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Keep system free of dirt and moisture. Store in a cool, dry place. For cleaning use a mild spray cleaner. Always apply cleaner or polish with a soft, clean cloth.

**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.

**Carbon Fiber Mufflers:** 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 (TBR part # 005-10038) that include new rivets and repack material as well as a drill bit (#30), making it easy to do yourself. Also, NEVER dyno test your bike with carbon fiber mufflers installed - the intense heat and lack of cooling air can quickly cause the CF material to burn. Two Brothers Racing does not provide a warranty for burned carbon fiber.

**Aluminum Mufflers:** Use an aluminum or mag wheel polish such as Mother's to restore the bright finish to factory spec.

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

### 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.