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## BMW R1150RT

V.A.L.E.™ Cat Eliminator Exhaust System with M-2 Canister  
Part # 005-720406M, 005-720408M, 005-720420M



### Parts List

Qty.	Description	Part Number
1	Muffler Canister	Varies
1	Canister Clamp	Varies
1	Stainless Steel S-Bend Tube	005-9404N
1	HARDWARE KIT	005-72-3
1	VALE Adapter Kit	005-2-1-V
2	80mm Swivel Hook Spring	005-S80
1	Muffler Mounting Bracket	005-71B
1	Barrel Clamp	005-27-64MSH
1	10x16mm Hex Bolt	005-HB1016
1	8x20mm Socket Head Cap Screw	005-SH820
1	8mm Flange Nut	005-FN8
2	8mm Flat Washer	005-WF8
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. Remove the lower fairing and set aside.
3. Loosen the pinch bolt clamp where the muffler assembly clamps to the stock head pipes (underneath, right side of the bike).
4. Remove the 10mm cap screw where the muffler assembly fastens to the left side rear foot peg bracket.
5. Carefully slide the muffler assembly rearward until it is free of its mounts. Do not remove the muffler yet as the O2 sensor is still attached. With the muffler held in place under the bike use a 22mm open end wrench and unscrew and remove the O2 sensor. Now you can completely remove the muffler assembly. Do not remove the header pipes.
6. Install the supplied hanger bracket using the 10mm bolt
7. provided with the kit, reusing the stock 10mm washer. Secure the bracket to the bike using the same hole that the original muffler bolted to. Be sure to apply a thread locking substance (i.e. Loctite) to the bolt. Do not tighten completely yet.
8. Hold the new connector pipe roughly in place and thread the O2 sensor completely in and tighten. Be sure to coat the threads of the sensor with the included packet of hi-temp anti-seize. Do not over tightened the O2 sensor, refer to the BMW shop manual for proper torque specification.
9. Slide the furnished T-bolt clamp over the pipe and install the pipe onto (overlap the two pipes) the headers securing it with the clamp. Do not tighten completely yet.
10. Place a bead of the hi-temp sealant on the outside edge of the s-bend that goes into the cansiter. Slide the TBR canister onto the end of the S-bend pipe. Wipe off the excess sealant that will squeeze out.
11. Align the canister clamp with the hanger bracket being sure to locate both tabs to the outside of the hanger bracket. Secure it with the supplied 8mm bolt, nut and washers (ref. illustration). It may be necessary to twist the canister, clamp and/or connector pipe to properly align everything. Be sure to point the tip of the canister away from the rear tire.
12. Make sure everything is aligned and tighten all hardware. Affix the connector springs to the muffler.
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.

### 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.