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# BMW S1000RR (10-19) / S1000R (14-20) AH2/SM2 EXHAUST SYSTEM INSTRUCTIONS

**The Brock's Performance full exhaust system for the S1000 is a 4-2-1 high-performance full exhaust system that replaces the OEM muffler, catalytic converter, and head pipes.**

## Check Package Contents:

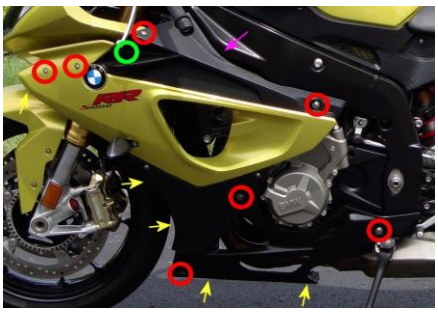
***The Package Contents Include:***

1. One (1) Muffler
2. One (1) Left Head Pipe
3. One (1) Right Head Pipe
4. One (1) Collector
5. Four (4) Mounting Flanges
6. One (1) Permatex™ Ultra Copper®
7. One (1) Package Containing Hardware
8. One (1) Package Containing Instructions

**If your package contents differ, please contact Brock's Performance at 937-912-0054.**

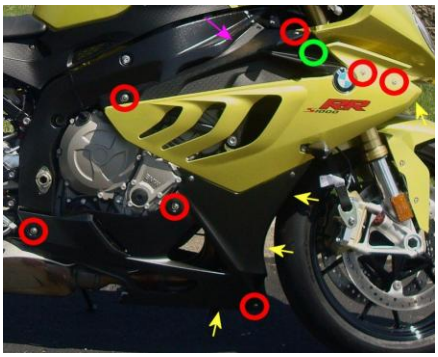
**For additional installation support please refer to the OEM service manual.**

**S1000RR (17-19) / S1000R (17-20) model years require installing the OEM right-side rearset and muffler mounting hardware from the S1000RR/R (15-16) model year.**



## Removal Instructions:

1. Support the bike using a wheel stand or lift.
2. Remove the left and right side fairings.
3. Remove the seat.
4. Remove upper, left, and right fuel tank trim panels.
5. Loosen the muffler clamp.
6. Remove the muffler mounting bolt and remove the muffler.
7. Disconnect left and right side oxygen sensor connectors.
8. Remove the cable from the front exhaust valve servo motor (left side above the radiator).
9. Remove the cable from the retaining clip and remove it from the pulley end.



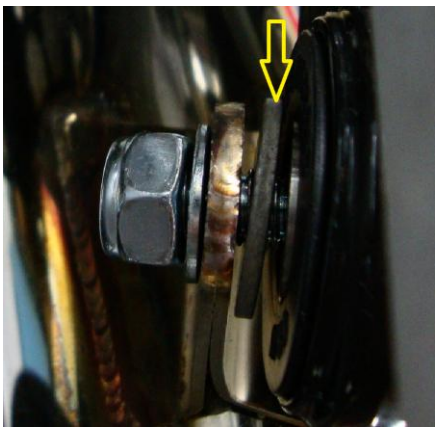
**Note:** Servo motors must remain installed and plugged in to avoid service codes.

10. Remove the rear exhaust valve servo cables (located above shock).
11. Remove the radiator/oil cooler bracket.

**Note:** Place cardboard around the radiator and oil cooler to prevent damage to the aluminum fins during exhaust removal/installation.

12. Remove the "E" clips and washers from the bottom of the radiator and bottom of the oil cooler.
13. Remove two (2) bolts securing the oil cooler to the radiator.
14. Remove eight (8) head pipe nuts.
15. Remove two (2) bolts securing the catalytic converter (CAT) to the frame and four (4) bolts securing the brackets to the CAT.
16. Remove the OEM front section from the bike.

## Installation Instructions:



***Note:*** *Before installing the performance exhaust system, preassemble all components to check fitment. A slight ovaling of the exhaust tubing can occur during production; this is normal. Apply WD-40® to the pipe joints to ease assembly, adjustment, and disassembly.*

17. Inspect the OEM exhaust gaskets. Replace as needed.
18. Remove the flanges from the head pipes. Install them to the engine and secure hand tight using the nuts from step 14.

    **Note:** The little holes for the springs go on top.

19. Remove the oxygen sensors from the OEM front section and install them into the left and right head pipes.

    **Note: If the bike is equipped with a Dynojet PCV, removal of the OEM oxygen sensors is required for optimum performance. Block off plugs are included.**

20. Apply a small amount of Permatex Ultra Copper to the inside of both head pipes up to ½" ( 12.5mm) deep.
21. Install the left and right head pipes, collector, and muffler.
22. Secure the muffler to the stock bracket using the supplied hardware and OEM outer billet washer hand tight. The large washer goes in between the stock mount and the muffler mounting tab.
23. Install one (1) spring to each head pipe to secure the mounting flanges (4 total).
24. Install two (2) springs to secure the collector to the head pipes.
25. Install one (1) spring to secure the muffler to the collector.
26. Wiggle the entire system to ensure pipes are fully seated.
27. Torque eight (8) exhaust flange nuts to 15 lb-ft (20 N·m) or just until the flanges begin to bend.
28. Tighten the muffler mounting hardware.
29. If oxygen sensors are installed, reconnect them.
30. Using the supplied cap, block off the PAIR system following the supplemental instructions.
31. Wipe down the entire exhaust system with rubbing alcohol.
32. Reinstall body panels and the seat removed in steps 2 through 4.

**DO NOT START BIKE UNTIL A MINIMUM OF A ¼-INCH (6 MM) CLEARANCE IS OBSERVED BETWEEN THE EXHAUST COMPONENTS AND ALL BODYWORK/PARTS.**

- Failure to ensure proper clearance may result in burned plastic. Brock's Performance exhaust systems are designed to provide appropriate clearances. If minimum clearances are not obtained, remove the springs on the exhaust system and adjust until proper clearance is achieved.
- It is recommended that the entire exhaust system is wiped down with **rubbing alcohol** to remove oil and fingerprints before starting the bike. This will help prevent tarnishing of the finish after the bike has been started and the exhaust has heated up.
- **Fender eliminator kits are recommended on some models; see BrocksPerformance.com for more details.**
- **Warranty Info: The PAIR system must be blocked off in order to prevent premature exhaust failure. Please refer to the PAIR Block Off Cap instructions. They can be found at blog.brocksperformance.com/instructions**

**ALL BROCK'S PERFORMANCE PRODUCTS ARE DESIGNED FOR CLOSED-COURSE RACETRACK USE ONLY!**

For more information on Brock's Performance Warranty and Terms and Conditions:
**BrocksPerformance.com > Brock's Support > Customer Service > Terms and Conditions**
For Questions and Comments:
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