

Taylor*made* RACING INC

Installation Guide

2010-2014 BMW S1000RR Full Exhaust System



**!! THIS PRODUCT IS DESIGNED FOR USE IN CLOSED
COURSE RACING AND IS NOT INTENDED FOR HIGHWAY
USE!!**

Congratulations on the purchase of your new TaylorMade Racing underbelly exhaust kit for your BMW. All components of your new exhaust are fabricated from thin wall stainless steel, so it will never rust. The black finish is a baked-on ceramic coating and only requires washing with soap and water to keep clean. We recommend regular application of Turtle Wax's "Color Magic" in black to keep your carbon fiber looking new.

Any competent mechanic with basic tools can install the kit, but if you have any doubts in your mechanical abilities, entrust installation to an experienced workshop. Time to fit is approximately 3 - 4 hours depending on familiarity. All directions are given as if you are seated on the bike: e.g., left = gear change side.

Fitting is straightforward but please do read the instructions carefully, as they will help you get the job done more quickly and easily.

Tool List :

- Torx 25
- Torx 30
- Torx 40
- Torx 45
- T-20 torx bit
- 3 mm hexagon wrench
- 5 mm hexagon wrench
- 6 mm hexagon wrench
- 13 mm wrench
- 17 mm wrench

Parts List:

- 1 Set of Header
- 4 Spigots
- 6 Springs
- 1 Left Side Carbon Panel
- 1 Right Side Carbon Panel
- 1 Muffler
- 1 Muffler Strap
- 1 Left Side Strap Bracket
- 1 Right Side Strap Bracket
- 1 Hex Muffler Spacer 142 mm
- 1 Hex Muffler Spacer 7 mm
- 1 10mm Tapered Trim Spacer
- 2 Thin Trim Grips 20mm long
- 3 M8x12 Socket Head
- 1 M8x25 Hex Head
- 1 M8x45 Socket Head
- 1 M8 Nyloc Nut
- 5 M8 Washer
- 2 M6x10 Button Head
- 2 M6 Fender Washers
- 1 Tie Wrap

STAGE ONE – DISASSEMBLY

REMOVE FAIRING

- 1) Remove upper fairing side panels as described on page 111 of your rider's manual.
Note: 2 bolts in figure 1 do not have to be removed.
- 2) Remove lower side panels.



REMOVE MUFFLER TAIL PIPE

- 3) Remove bolt from foot rest. (Figure 2)
- 4) Remove muffler cover on stock tail pipe.
- 5) Loosen tail pipe clamp. (Figure 3)
- 6) Lift and remove tail pipe. (Figure 4)



DISCONNECT CABLES

- 7) Remove cover from exhaust butterfly valve. (Figure 5)
- 8) Detach exhaust cables. (Figure 6)
- 9) Remove cable from front servo motor. (Figure 7)
- 10) Disconnect left side oxygen sensor and pull connector from cylinder head. (Figure 8)
- 11) Repeat for right side oxygen sensor.



REMOVE STOCK EXHAUST

- 12) Remove upper and lower radiator mounting clips. (Figure 9)
- 13) Using a T-30 torx bit, remove radiator and oil cooler bracket.
- 14) Detach and remove bracket from radiator and oil cooler
- 15) Using a T-45 torx bit, remove right and left rear muffler mounts. (Figure 10)
- 16) Using a 10mm wrench, remove the 8 header flange bolts. (Figure 11)
- 17) Lower and remove stock exhaust off the motorcycle. (Figure 12)



- 18) Remove oxygen sensors from stock exhaust. (Figure 13)
WARNING: DO NOT MIX UP LEFT AND RIGHT SIDE OXYGEN SENSORS
(TaylorMade Racing recommends marking the left side from right to avoid confusion).



STAGE TWO –ASSEMBLY



PRE-ASSEMBLE TAYLORMADE EXHAUST

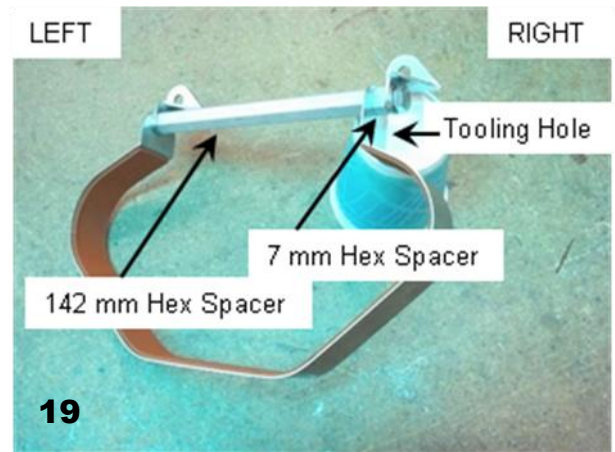
- 19) Insert left and right side header pair into TMR muffler. Note: Oxygen sensor bungs should be on the inside of each header pair. (TaylorMade Racing recommends using WD-40 on slip joints to ease assembly.)
- 20) Secure headers to muffler using the provided springs. (Figure 14)
- 21) Insert ends of TMR headers to the provided TMR spigots.
- 22) Secure the outside of each spigot with the provided 4 springs. (Figure 16)
- 23) Screw in left and right side oxygen sensors into the TMR Headers. (Figure 15)

INSTALL TAYLORMADE EXHAUST

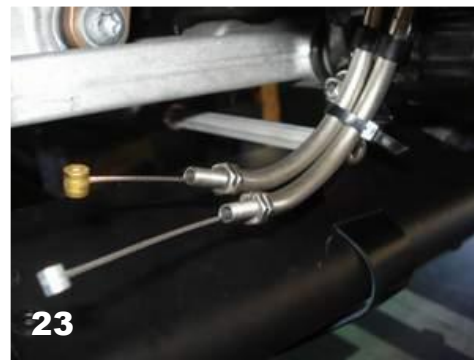
- 24) Raise pre-assembled TMR muffler and header into engine. (Figure 17)
- 25) Push spigots onto stock studs. (Figure 18)
- 26) Replace the 8 flange nuts to secure TMR headers.



Familiarize yourself with the order of assembly of the muffler strap. First, the strap has a tooling hole on the right hand side. From the left assembly is 8 mm hex head bolt, washer, strap, bracket, 142 mm hex spacer, strap, 7 mm hex spacer, bracket, washer, 25 mm hex bolt. (Figure 19)



- 27) Place the M8x12 socket head and M8 washer through the left side of the muffler strap, bracket and 142 mm hex spacer – **only finger tight at this stage**. Slide over the rear end of the muffler. (Figure 20)
- 28) Attach left side strap bracket to stock rear muffler mount using M8 hex bolt and washer – **screw in only finger tight**. (Figure 21)
- 29) Attach right side strap bracket to stock rear muffler mount using M8 hex bolt and washer. Assemble right side muffler strap. 7 mm hex spacer, bracket and 25 mm hex head bolt to end of long hex spacer. (Figure 22)
- 30) Using a wrench and socket, tighten both muffler strap bolts and the muffler strap bracket to chassis bolts.
- 31) Secure exhaust valve cables to the muffler bracket using the tie wrap. (Figure 23)
- 32) Reconnect the left and right side oxygen sensors.
- 33) Reattach radiator and oil cooler bracket.
- 34) Reinstall radiator c-clips to secure.



INSTALL TAYLORMADE CARBON PANELS

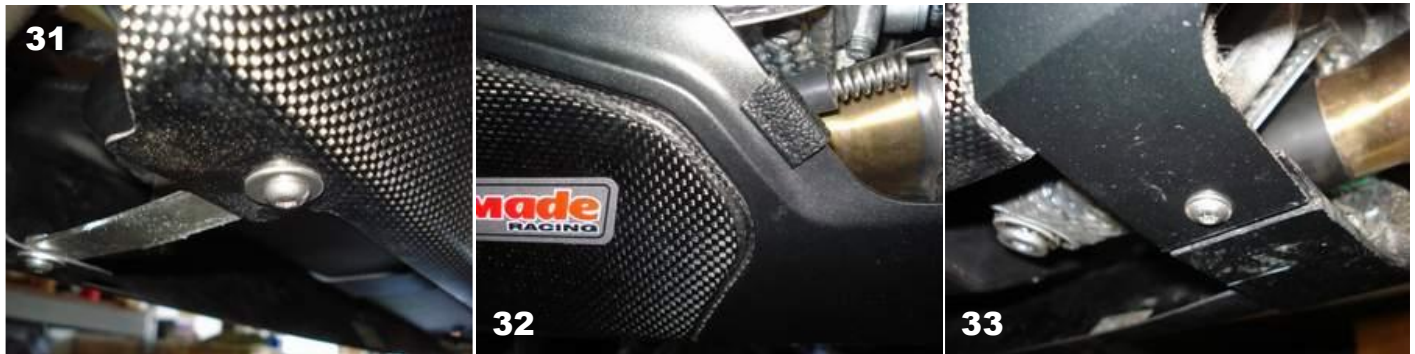
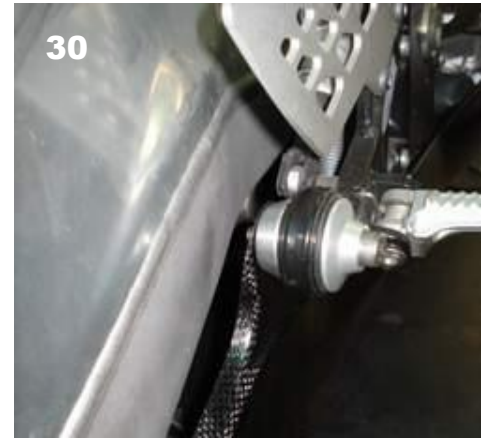
- 35) Pull back the insulation at the rear of each stock panel. (Figure 24)
- 36) Reinstall left side stock panel.
WARNING: DO NOT FORGET TO RECONNECT TURN SIGNAL CABLE.
- 37) Hold back the rear stock panel against pedal, with side stand slightly extended.
- 38) Slip the front of the left side carbon trim behind the rear of the stock pane. (Figure 25)
- 39) Replace rear panel stock bolt to secure both pieces. (Figure 26)
- 40) Using the supplied M6x10 button head and M6 fender washer, connect the rear carbon trim tab to the muffler bracket and tighten. (Figure 27)
- 41) Insert supplied trim grip to clamp together stock panel to the front edge of carbon trim. (Figure 28)
- 42) Using pliers, lightly pinch the trim grip to secure panels.
- 43) Push insulation back into place.



- 44) Reinstall right side stock panel.
WARNING: DO NOT FORGET TO RECONNECT TURN SIGNAL CABLE.
- 45) Slip the front of the right side carbon trim behind the rear of the stock panel and over the exhaust exit. Note: The top carbon trim tab is on the inside of the foot rest. (Figure 29)



- 51) Assemble top mount with the 10mm tapered trim spacer on the inside of the foot rest. Secure with the supplied M8 nyloc nut at the rear. (Figure 30)
- 52) Using the supplied M6x10 button head and M6 fender washer, connect the rear carbon trim tab to the muffler bracket and tighten. (Figure 31)
- 53) Replace rear panel stock bolt to secure.
- 54) Insert supplied trim grip to clamp together stock panel to the front edge of carbon trim. (Figure 32)
- 55) Using pliers, lightly pinch the trim grip to secure panels.
- 56) Reattach bottom fairing stock bolt. (Figure 33)



Now, stand back and take a moment to admire the results of all your hard work! All that remains is to fire her up and go for a spin.

After running the bike for approximately 100 miles, go over all fasteners and check for tightness. Pay particular attention to the clearance around the exit of the exhaust.

TMR recommends the use of Loctite and safety wire in all racing applications. If you experience any problems with the fitment of your TaylorMade Exhaust components or these instructions, the technicians at TaylorMade will be pleased to help. Just give us a call.

Safe Riding, Paul Taylor

Proper care guidelines for your TaylorMade Exhaust

All components of your new exhaust are fabricated from thin wall stainless steel so it will never rust. The black finish is a baked-on ceramic coating which only requires washing with soap and water to help keep it clean. To keep your carbon fiber looking new, we recommend a regular application of Turtle Wax's "Color Magic" in black. The muffler has an absorption design which relies on a fiberglass packing to absorb noise, heat and vibration. Over time the packing will degrade and will require replacing to maintain sound absorption quality and integrity of the muffler. In normal use repacking will be necessary every 6000-7000 miles. Extended periods of use at high RPMs will significantly reduce this service interval. A sure sign that repacking is required is when there is a noticeable increase in sound level.

When your muffler needs servicing, please contact our service team here at TaylorMade, who will be pleased to inspect and refurbish your muffler at a minimal cost.

WARRANTY AND LIMITATIONS

Regarding products sold by TaylorMade Racing Inc. (TaylorMade) e.g., exhaust systems, composites, billet parts, etc.), TaylorMade warrants these products against defects arising out of failure due to material and/or workmanship for a period of 1 year from the date of purchase regardless of actual "in service" date. This warranty is limited to the repair or replacement of the item solely at the discretion of TaylorMade. Such repair or replacement will be determined based solely on TaylorMade's evaluation of the item's intended and actual use.** Regarding products purchased from TaylorMade but not manufactured by TaylorMade, NO WARRANTIES WHATSOEVER are granted or implied. Any and all claims regarding items sold by TaylorMade but not manufactured by TaylorMade are to be referred to and disposed of by the actual manufacturer. Claims regarding these items may be administered by TaylorMade or referred to the actual manufacturer at TaylorMade's discretion. TaylorMade warranty remains with the original purchaser and does not transfer.

EXCLUSIONS

This warranty does not cover finishes such as plating and paint nor their failure due to discoloration from heat or weathering or abuse. Nor does it cover any failure due to damage arising out of improper installation, crash damage or incompatibility with other components, In any event, TaylorMade accepts no liability for any damage to vehicles or persons arising out of the use and/or abuse of a vehicle equipped with TaylorMade components, nor will TaylorMade accept liability for damage to injury or persons from the use or abuse of the product itself, whether direct or indirect, voluntary or involuntary. TaylorMade will not be responsible for any dispositions made by dealers or distributors of products. TaylorMade will not be responsible for any labor charges incurred by the customer for the installation or removal of the TaylorMade component or changes arising out of the collateral damage to the vehicle or persons while installing, removing, or using any item purchased from or supplied by TaylorMade whether manufactured by TaylorMade or not.

RETURN POLICY

TaylorMade will not be responsible for any shipping charges by the purchaser in returning the part to TaylorMade for evaluation. A return authorization number and a copy of the purchaser's invoice or receipt must accompany all returns. Parts returned without authorization may be refused.

DISCLAIMER

TAYLORMADE EXHAUST SYSTEMS, ENGINE PARTS, OR ANY PART WHICH MAY EFFECT EMISSION REGULATION COMPLIANCE ARE FOR OFF HIGHWAY USE ONLY AND ARE NOT FOR SALE OR USE ON CALIFORNIA POLLUTION CONTROLLED VEHICLES OR IN OTHER STATES WHERE POLLUTION CONTROL LAWS APPLY. SUITABILITY OF APPLICATION IS THE SOLE RESPONSIBILITY OF THE PURCHASER.

**Failure to abide by the care guidelines outlined in the installation guide will void any warranty terms listed above. Mufflers returned for refurbishment under warranty will be subject to inspection by TaylorMade technicians. If upon inspection our technicians deem that damage has occurred due to neglect, the customer will have the option to pay a refurbishment fee or to ship the muffler to their return address.

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