

[illegible]

1. BMW RMV & Clamp
2. Dispenser Assembly
3. Breather Assembly
4. Vacuum Tubing
5. Conduit (30cm)
6. Filling & Priming Spout
7. 250ml Scottoil
8. Cable Ties (x4)

9. M6 Nyloc Nut
10. Dispenser Plate
11. Dispenser Plate Clip
12. M6 washer (x2)
13. M6 Socket Screw
14. Sandpaper
15. Instant Adhesive
16. Spare Nibs (x2)
17. BMW Vacuum Damper



The diagram shows a side profile of a yellow and black motorcycle. Red lines point to specific locations: one points to the upper fairing area labeled 'Vacuum Location', another points to the engine area labeled 'RMV Position', and a third points to the rear wheel assembly labeled 'Dispenser mounting'.

Diagram of the vacuum line assembly:

- Part 4 & 17 - Vacuum from engine**: The main vacuum line entering the manifold.
- Filler Plug**: The blue cap on top of the manifold, labeled 'FILLER'.
- RMV**: The red manifold valve, located on the side of the manifold.
- Part 3 - Breather**: The vacuum line exiting the manifold to the right.
- Part 2 - Delivery to rear sprocket**: The vacuum line exiting the manifold downwards.

T25 Torx wrench

T30 Torx wrench

Flat screwdriver

4mm Allen Key

Long nose pliers

How does this affect the engine? It doesn't. The Scottoiler's output is not affected by engine speed, throttle opening and so on. The vacuum chamber is a sealed unit and does not affect the running of the bike. Upon starting the engine the valve will open, this requires 3cc of air to be moved in order to lift the diaphragm, which stays up until the engine is switched off. It is not unusual to see the diaphragm pulsating with very low revs, particularly on singles and twins, don't confuse this for a pumping action, it is not a pump.

- 1. Which products are suitable for my bike?** Visit our website www.scottoiler.com and select your bike 'Manufacturer' and 'Model'. Select the kit you want and download the installation guide PDF.
- 2. What oil should I use to refill my Scottoiler?** In ambient temperatures between 0 and 20 degrees Celcius we recommend Scottoil Traditional - Blue and in ambient temperature between 20 and 40 degrees Celcius we recommend Scottoil High Temperature - Red. Scottoil features a very low tack additive thus not attracting dirt. Scottoiler cannot guarantee the compatibility of our systems using any other manufacturers oils as the materials used are tested for compatibility with Scottoil only.
- 3. When should I refill my RMV (Reservoir Metering Valve)?** If you refill the oiler before it runs dry you won't have to prime the dispenser tube. The Reservoir Metering Valve takes around ten seconds to top up with 50ml of oil which should last approximately 400-800 miles.
- 4. Can I increase the capacity?** Yes, the Magnum High Capacity Reservoir increases capacity by up to eight times. The HCR is fitted behind the number plate and the combined increased capacity will give 4000-6000 miles between refills. Alternatively, the Lube Tube flexible high capacity reservoir increases combined capacity by up to four times. The Lube Tube can be fitted into any dead space on the bike and will mean 2000-3000 miles between refills.
- 5. Will the Scottoiler only oil one side of my chain?** No. The oil is fed to the chain via the sprocket face where it splits over the inner side plates. Some of the oil is diverted onto the o-rings and the remainder feeds under the roller onto the bushing. Capillary action will then draw the oil across the chain. For best results load the chain with oil from the bottle or a rag after cleaning and then apply approx 1 drop per minute to maintain this film of oil.
- 6. Will I get oil on my tyre?** No, A flow rate of approximately one drop per minute applied via the sprocket face will provide an oil-film which will not pollute the running surface of the tyre and will give a dramatic improvement in chain life. In conditions where high levels of dust, sand or heavy rain are present more oil flow will be necessary to extend chain life.
- 7. Do Scottoiler offer a fitting service?** No. If you have a new bike and are local to Glasgow give us a call, we might be looking for your bike. If you aren't confident about fitting the system, having looked at the model specific installation guide for your bike, it is recommended to use a local motorcycle dealer experienced in fitting Scottoiler products.
- 8. I want to move my Scottoiler onto my new bike, are the spare parts available separately?** Yes, the full range of spare parts, fittings and accessories are available online at www.scottoiler.com or by telephoning Sales on +44 (0)141 955 1100. Alternatively, contact your local Scottoiler dealer, who can order the parts on your behalf.



BMW F800 / F650 GS (2008-)



www



e-mail



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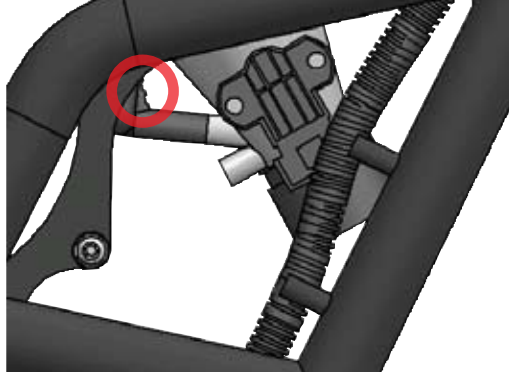
Vacuum Connection

1. Remove the side panel from the RHS of the bike using a T25 Torx wrench.

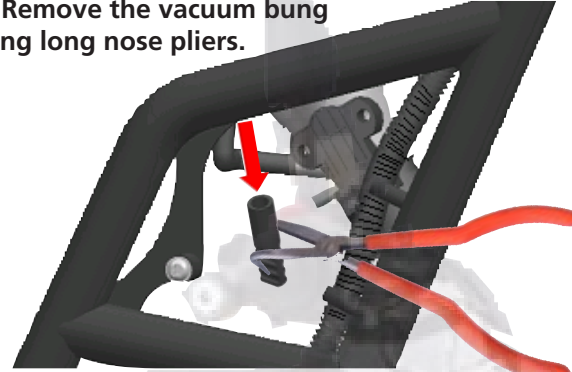


2. Locate the vacuum bung on the bottom of the airbox, it is in the middle of the bike.

The end of the bung can just be seen behind the vacuum pipe from the throttle body to the airbox.

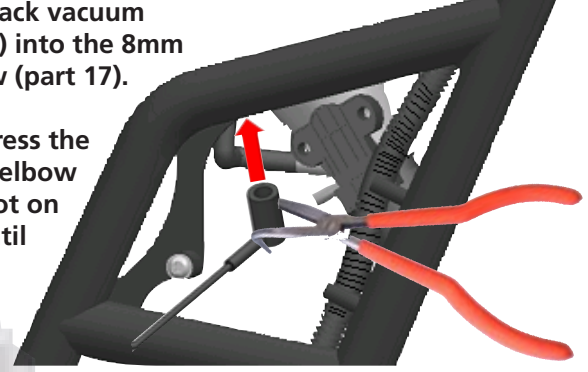


3. Remove the vacuum bung using long nose pliers.



4. Press the black vacuum tubing (part 4) into the 8mm damper elbow (part 17).

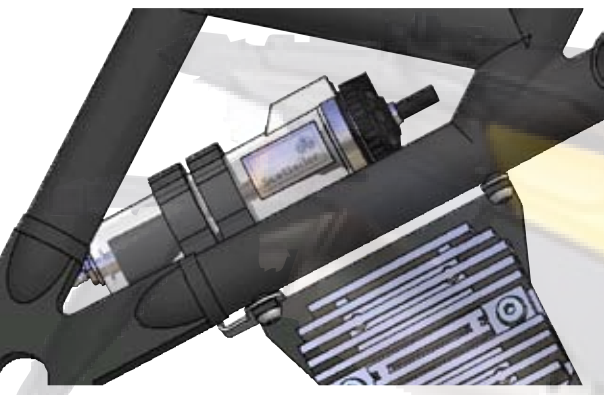
Then firmly press the 8mm damper elbow onto the spigot on the airbox, until it can go no further.



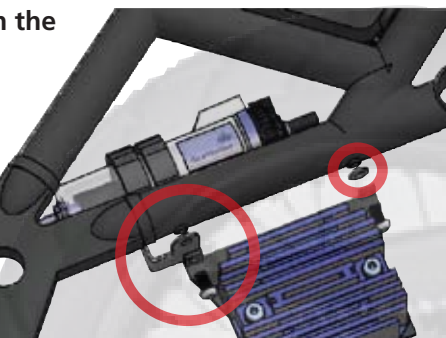
 **Incorrect installation can result in excessive oil fling**

Reservoir Metering Valve (RMV)

1. Unbolt and remove the regulator rectifier from the frame using a T30 Torx wrench.

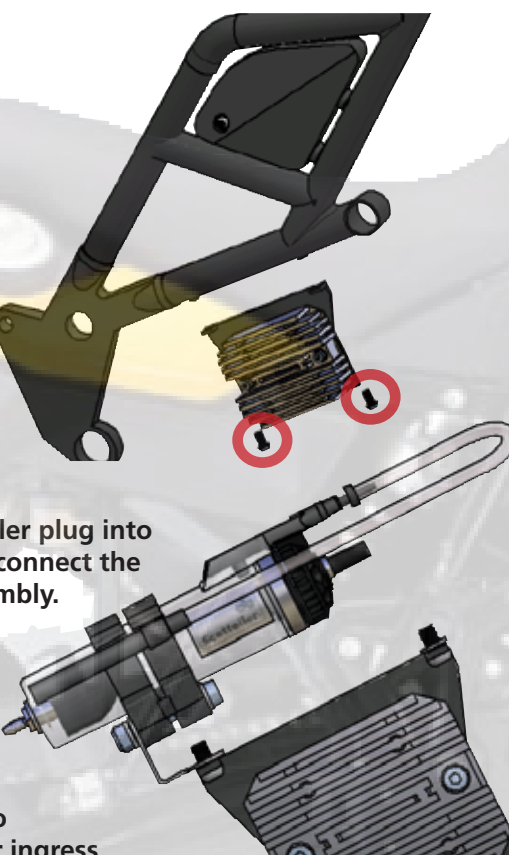


2. Re-attach the regulator rectifier including the clamp assembly (part 1) & washer (part 12).



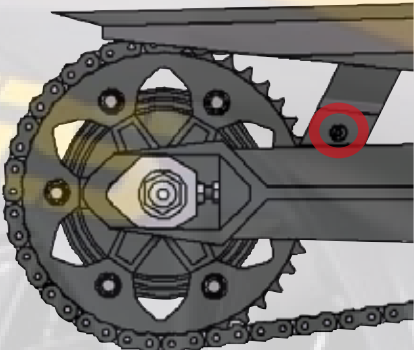
3. Press the filler plug into the RMV and connect the breather assembly.

Secure the breather assembly (part 3) pointing downwards to prevent water ingress.



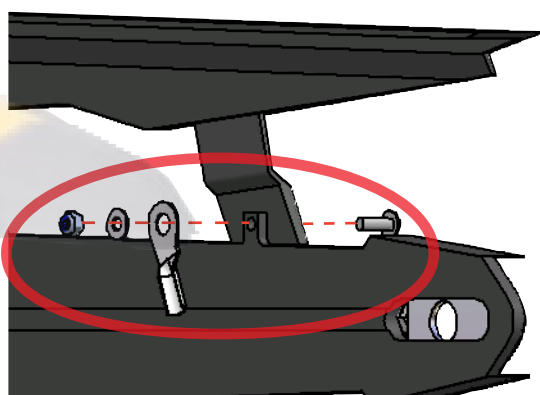
Dispenser Assembly Avoid routing against moving parts

1. Remove the rear chain guard mounting bolt using T30 Torx wrench.

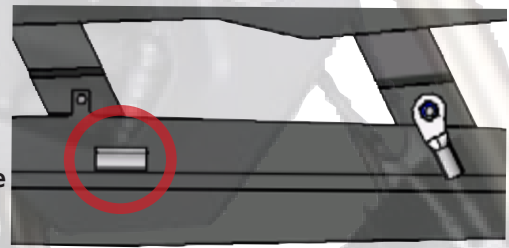


2. Using the M6 bolt (part 13), washer (part 12) and nyloc nut (part 9) - fix the dispenser plate (part 10) to the inside face of the swingarm through the chain guard mount.

Hint: The delivery tubing can be routed beside and secured to the rear brake pipe.



3. Degrease & prepare a small area of paint half way along the back of the swingarm using the sandpaper (part 14) and instant adhesive (part 15) a piece of conduit (part 5) in place.

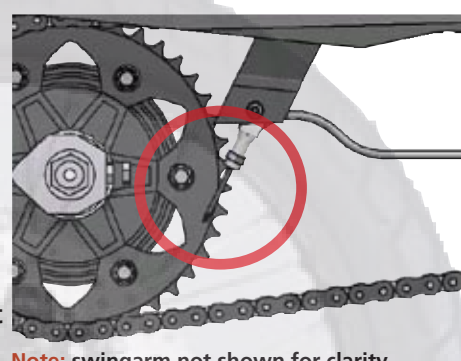


4. Secure the dispenser assembly (part 2) to the dispenser plate by clamping around the black nylon sleeve using the jubilee clip (part 11). Use instant adhesive to secure the delivery tubing to the conduit and route the delivery tubing to the RMV taking care to avoid the chain.



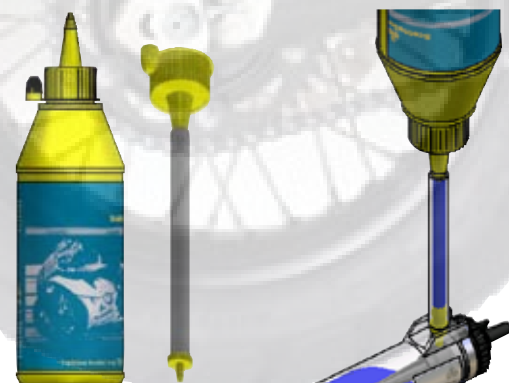
5. Position the nib between 3 & 4 o'clock on the outside face of the rear sprocket with the slash cut facing away from the sprocket, taking care to avoid the sprocket bolts.

Note: swingarm not shown for clarity



RMV Filling

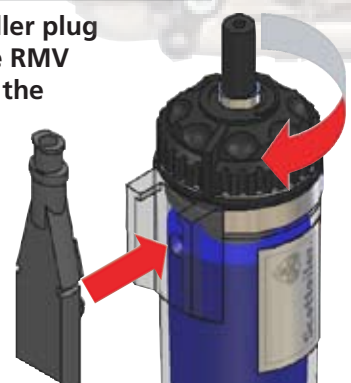
Bottle & Spout (parts 6 & 7)



Hint: Always remove filler plug and breather before filling

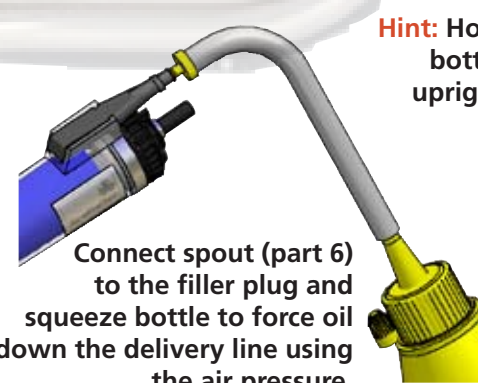
System Priming

Press Filler plug into the RMV and set the RMV to prime.



Connect spout (part 6) to the filler plug and squeeze bottle to force oil down the delivery line using the air pressure.

Hint: Hold bottle upright



Set Flow Rate

Adjust the flow until 1 to 2 drops per minute are achieved.



Hint: 1 to 2 drops per minute provide the optimum flow rate

30 - 60 secs

