



Honda Africa Twin 2016 onwards vSystem



Technical Support



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version 3.1

1. Vacuum Connection

Remove the petrol tank.

HINT: Have as little fuel as possible in the tank - it makes it lighter. An assistant may also be helpful.

1. Remove the riders seat.
2. Unscrew the grey trim panels on either side of the bike (there are 2 screws on each side of the bike securing these.)
3. Remove the black tank cowling panels. (There is a combination of screws and plastic fasteners securing these.) Then free these from the rubber gromets. There are 2 rubber gromets on each side.



4. Remove the seat lock bracket.
 5. Remove the screw at the rear of the petrol tank.
 6. Raise the tank and disconnect 2 electrical connectors, 2 drain tubes and the quick release fuel coupling.
- Carefully ease tank free and place safely out of the way.
- Once the tank is removed, locate the vacuum pipes - one comes from each of the two throttle bodies, they then join into one and then connect to the map sensor on the LHS.



Cut the vacuum pipe and insert the tee piece (part 5).

Take the vacuum tubing (part 3) and push it into the smallest side of the vacuum damper elbow part (part 4).

Then push the vacuum damper elbow onto the third leg of the tee.

2. Reservoir Metering Valve

Hint: The RMV should be mounted as near vertical as possible to achieve maximum capacity.

Mount to frame with cage & cable ties (parts 11 & 12).

Mount RMV with spigot inclined downwards making sure the filler plug can be easily removed, and with the filler hole accessible.



If you wish to mount the RMV in an alternative location, a hole can be drilled on the spine of the cage which allows mounting with an existing bolt.



3. Dispenser Assembly

Hint: Place a Scottoil sticker on the chain guard to alert mechanics to the presence of a Scottoil system.

Remove the plastic toe guard at the rear sprocket.

Fit the dispenser assembly (part 11) to the small dispenser plate (part 13) and secure using the dispenser plate clip. When tightening the clip, it's important to make sure of the position of the screw so that it doesn't foul on the sprocket, sprocket bolts, or toe guard - see picture.



Place the small dispenser plate against the swing arm and re-fit the plastic toe guard. Bend the small dispenser plate so that the tip of the injector nib is lightly touching the rear sprocket with the slash cut facing outwards. The optimum position on the sprocket is between the 6 and 8 o'clock position.

3. Dispenser Assembly cont.

For an extremely neat installation, it is possible to route the delivery tubing partially concealed inside the swing arm.

Remove the upper and lower plastic blanking plugs and drill a 4mm hole in each. Thread the lower plug back onto the dispenser assembly. Then, thread the delivery tubing through the swing arm and out of the upper plug hole.



Now thread the delivery tubing through the upper plug, refit both plugs and gently take up the slack in the delivery tubing.

Hint: Do not pull too tight.



Thread the delivery tubing under the rear brake line.



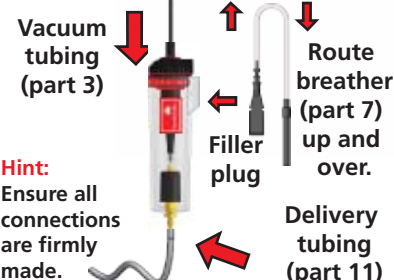
Cable tie the delivery tubing onto the brake line.

Hint: Do not overtighten the cable tie.



4. Connections

Connect vacuum tubing and delivery tubing to the RMV.



Hint: Ensure all connections are firmly made.

Ensure that all connections are firmly made, and that parts are not situated next to components which may become hot. Take care to ensure that any mechanisms, such as seat catches or throttle assemblies can operate properly and are not affected by tube routing.

5. RMV Filling

Fill RMV using bottle & spout (parts 16 & 17).

Hint: Always remove filler plug (part 2) and breather (part 7) before filling.



6. RMV Priming

Press filler plug (part 2) into the RMV and set the RMV to "PRIME".



Connect spout to the filler plug and squeeze bottle.

Force oil down the delivery line until no air bubbles remain. Attach breather assembly (part 7) to filler plug and route breather pipe up and over as shown in section 4.

Hint: Hold bottle upright.

7. Set Flow Rate

Start your bike & allow the engine to warm up.

Adjust the flow until 1 drop per minute is achieved.

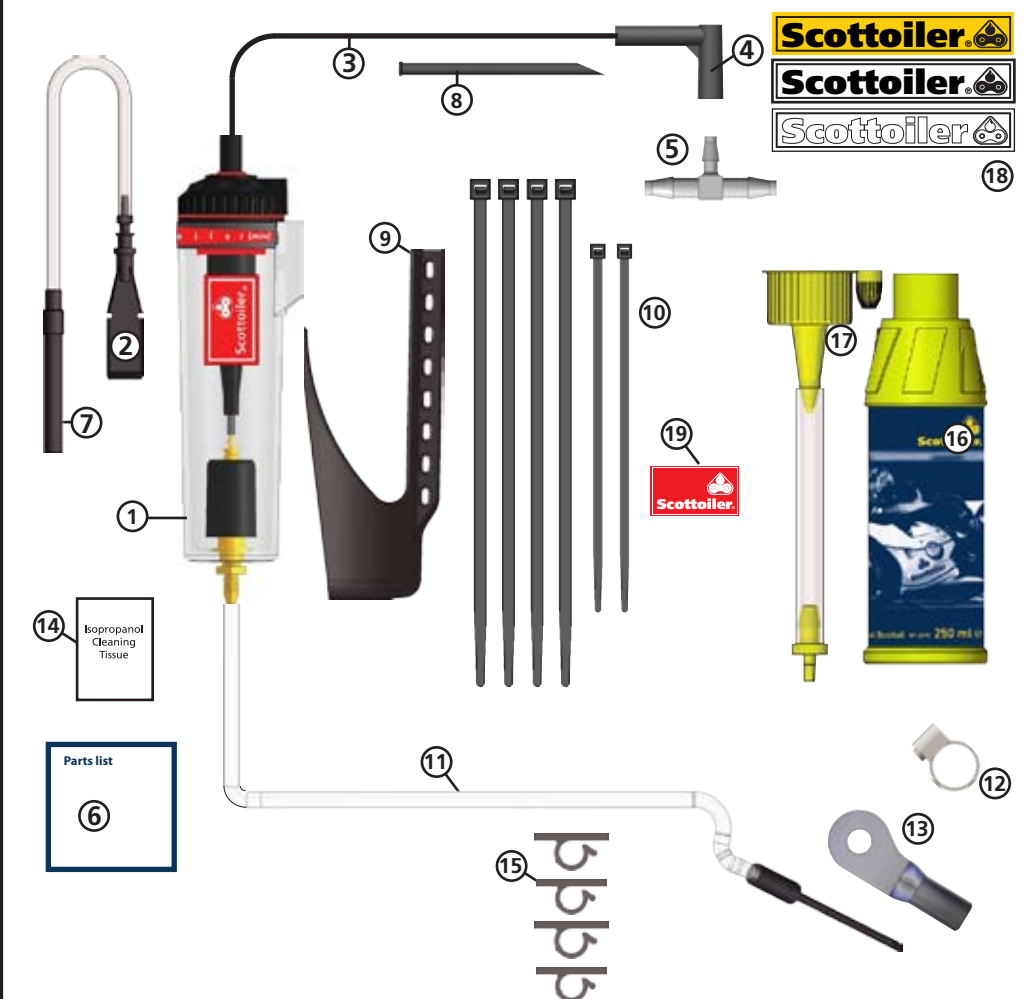
Check flow after a short journey & adjust if necessary.



Hint: More than 2 drops per minute will result in excess fling.

60 secs

Parts List



- | | | | |
|-----------------------------------|-------------|--|-------------|
| 1. RMV (Reservoir Metering Valve) | (SO-0019) | 11. Dispenser Assembly | (SA-0024) |
| 2. Filler Plug | (SA-0040) | 12. Dispenser Plate Clip | (RM-150065) |
| 3. Vacuum Tubing (Black) | (SC-0051) | 13. Small Dispenser Plate | (RM-150062) |
| 4. Vacuum Damper | (SA-0100) | 14. IPA Wipe | (RM-100125) |
| 5. T-Piece | (RM-150005) | 15. Adhesive Clips (x4) | (SA-0175) |
| 6. Instructions | (RM-250100) | 16. 250ml Scottoil | (SA-0008) |
| 7. Breather Assembly | (SA-0010) | 17. Filling / Priming Spout | (SA-0126) |
| 8. Spare Nib (x2) | (SA-0075) | 18. Scottoil Stickers (assorted) | |
| 9. RMV Cage | (SA-0600) | 19. Scottoil Sticker (place on chainguard) | (RM-050124) |
| 10. Cable Ties (x6) | (SA-0015) | | |



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Quick Setup Guide



Scottoil (Scotland) Limited, 2 Riverside, Milngavie, Glasgow G62 6PL

Your Bike

Check our website, www.scottoiler.com, for model specific installation guides showing where and how to fit on your own bike.



Accessories

For touring or regular long distance commuters, it may be useful to have additional capacity to extend the range. The Scottoil Lube Tube is an additional reservoir, which increases oil capacity, and due to its flexible nature, can be tucked inside fairing panels or seat panels, utilising 'dead space' on the bike.

The Lube Tube kit also includes 250ml of refill Scottoil.



The Dual Injector is also suitable for Honda Africa Twin, 2016 onwards and like the Lube Tube is available from our website at www.scottoiler.com or from your local Scottoil stockist.

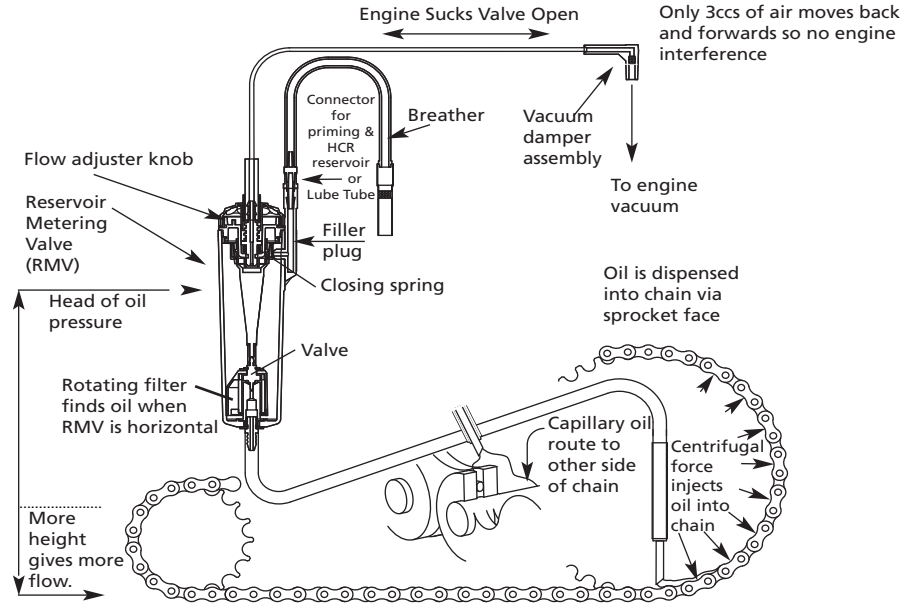
Limited Warranty

All Scottoil products are guaranteed to be free from defects in materials and workmanship for a period of two years from date of purchase.

Please register your product online at www.scottoiler.com/guarantee to verify the date of purchase.

Important: Do not tamper with, modify or dismantle any part of your Scottoil system. Such actions could damage the product, and/or your motorcycle, and may invalidate the product warranty.

How It Works



How does the Scottoil work? The Scottoil vSystem is vacuum operated. When the motorcycle engine is running vacuum is generated, this lifts a diaphragm which in turn opens the valve. Whilst open the valve allows oil to drip feed under gravity down the delivery tube to the chain via the rear sprocket. There is metering built into the valve to provide adjustment to control the rate at which oil is dispensed. It is not a pump.

How does this affect the engine? It doesn't. The Scottoil'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.

Frequently Asked Questions (FAQs)

1. Which products are suitable for my bike? Visit our website at 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 Scottoil? In ambient temperatures between 0 and 30 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. Scottoil cannot guarantee the compatibility of our systems using any other manufacturers' oils as the materials used are tested for compatibility and flow rates 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 up to 1500 miles.

4. Can I increase the capacity? Yes, the Magnum High Capacity Reservoir (HCR) increases capacity by up to eight times. The HCR is fitted behind the number plate and the combined increased capacity will give up to 10,000 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 up to 6,000 miles between refills.

5. Will the Scottoil 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 Scottoil 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, we have a network of approved and trusted Scottoil dealers who will be able to fit this for you. Go to www.scottoiler.com and select Dealer Locator to find one closest to you.

8. I want to move my Scottoil 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 Scottoil dealer, who can order the parts on your behalf.