



# mini vSystem

**Technical Support**

[www.scottoiler.com](http://www.scottoiler.com)

[technical@scottoiler.com](mailto:technical@scottoiler.com)

+44 (0)141 955 1100

Visit our pages on Facebook, YouTube, Twitter and flickr.

version 3.1

## 1. Vacuum Connection - 3 options Hint: Model specific installation guides can be found at [www.scottoiler.com](http://www.scottoiler.com)

**T-Piece (part 7)**  
  
 Cut into vacuum pipe. Insert T-piece (part 7). Press vacuum damper (part 4) onto T-piece then push vacuum tubing (part 3) into vacuum damper.

**OR**

**M5/M6 spigot (part 5 or 6)**  
  
 Remove screw. Insert M5/M6 spigot (part 5 or 6). Press vacuum damper (part 4) onto spigot then press vacuum tubing (part 3) onto vacuum damper.

**OR**

**Vacuum tubing & damper elbow (part 3 & 4)**  
  
Hint: Lubricate damper elbow for easier installation.  
 Remove bung. Press vacuum damper (part 4) onto spigot.

**For a full parts list, system diagram & FAQ's see reverse.**

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

## 2. Dispenser Assembly - 3 most common options Warning: Incorrect installation can result in excessive fling.

**Optimum feed point is between 5 & 7 o'clock on the face of the rear sprocket.**  
Hint: Nib should be lightly touching sprocket with slash cut facing out.

**Bobbin mount (parts 13, 15 and 16)** **OR** **Spindle mount (parts 13 & 14/15)** **OR** **Sprocket guard (parts 13 & 15/16)**

*Choose the mounting most suited to your motorcycle or check [www.scottoiler.com](http://www.scottoiler.com) for model specific install guides.*

## 3. Reservoir Meeting Valve (RMV) Warning: Avoid hot exhaust and engine components

Mount RMV with spigot inclined downwards, making sure that the filler plug and hole in the side of the reservoir are easily accessible to allow for filling and priming the system.

Hint: The RMV should be mounted as near vertical as possible to achieve maximum capacity, however it will still work normally inclined at an angle.

Using the reservoir mounting sleeve and cable ties, (parts 11 and 12) secure the reservoir to a frame member.

## 4. Tube Routing Warning: Avoid routing against moving parts

Use adhesive clips (part 18) and cable ties (part 12) to route tubing from dispenser assembly (part 13) to RMV location.

Hint: Use IPA wipe (part 17) to degrease surfaces before adhering.

## 5. Connections

Connect vacuum tubing and delivery tubing to the RMV.

Hint: Ensure all connections are firmly made.

Route breather up and over.

## 6. RMV Filling

Trim the top off the yellow spouted cap using scissors, and fit the clear spout. Fill RMV using the bottle & spout (parts 19 & 20).

Hint: Always remove filler plug and breather before filling.

## 7. Prime System

Press filler plug (part 2) into the hole in the side of the RMV making sure it is fitted properly. Set the RMV to prime, by turning the adjuster knob fully clockwise.

Connect spout to the filler plug and squeeze bottle.

Hint: Hold bottle upright.

Force oil down the delivery line until no air bubbles remain. Attach breather assembly (part 9) to filler plug and route breather pipe up and over as shown in section 5.

## 8. Set Flow Rate

Start your bike & allow the engine to warm up.

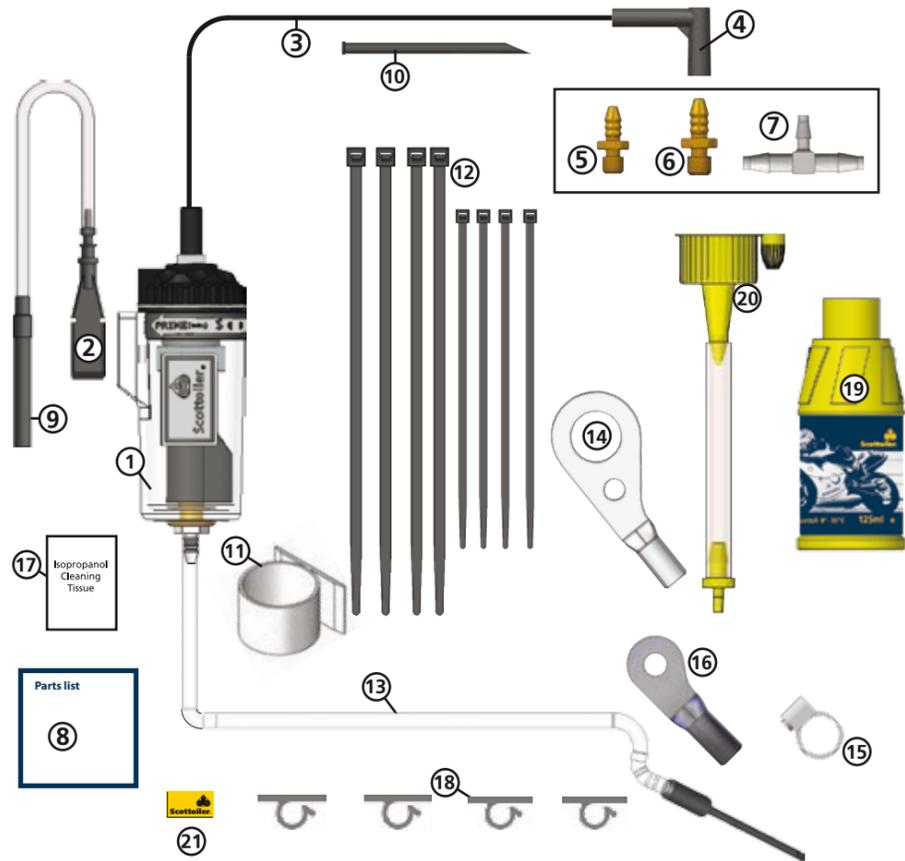
Adjust the flow until 1 drop per minute is achieved.

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-0033)   | 13. Dispenser Assembly      | (SA-0024)   |
| 2. Filler Plug                    | (SA-0040)   | 14. Dispenser Plate         | (RM-150060) |
| 3. Vacuum Tubing (Black)          | (SC-0051)   | 15. Dispenser Plate Clip    | (RM-150065) |
| 4. Vacuum Damper                  | (SA-0100)   | 16. Small Dispenser Plate   | (RM-150062) |
| 5. M5 Spigot                      | (RM-150125) | 17. IPA Wipe                | (RM-100125) |
| 6. M6 Spigot                      | (RM-150135) | 18. Adhesive Clips (x4)     | (SA-0175)   |
| 7. T-Piece                        | (RM-150005) | 19. 125ml Scottoil          | (RM-200008) |
| 8. Instructions                   | (RM-250222) | 20. Filling / Priming Spout | (SA-0126)   |
| 9. Breather Assembly              | (SA-0010)   | 21. Scottoil Sticker        | (RM-150230) |
| 10. Spare Nib (x2)                | (SA-0075)   |                             |             |
| 11. Reservoir Mounting Sleeve     | (SA-0142)   |                             |             |
| 12. Cable Ties (x8)               | (SA-0016)   |                             |             |



# mini vSystem

## Quick Setup Guide



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

### Your Bike

Check our website, [www.scottoiler.com](http://www.scottoiler.com), for model specific installation guides showing where and how to fit on your own bike.

Vacuum Location

RMV Position

Dispenser Routing



### Additional Parts

Some models require free of charge adapter kits in order to correctly install this kit.

Where required, the additional parts will be listed on the model specific installation guide relevant to your bike, as shown above.

Found at [www.scottoiler.com](http://www.scottoiler.com).



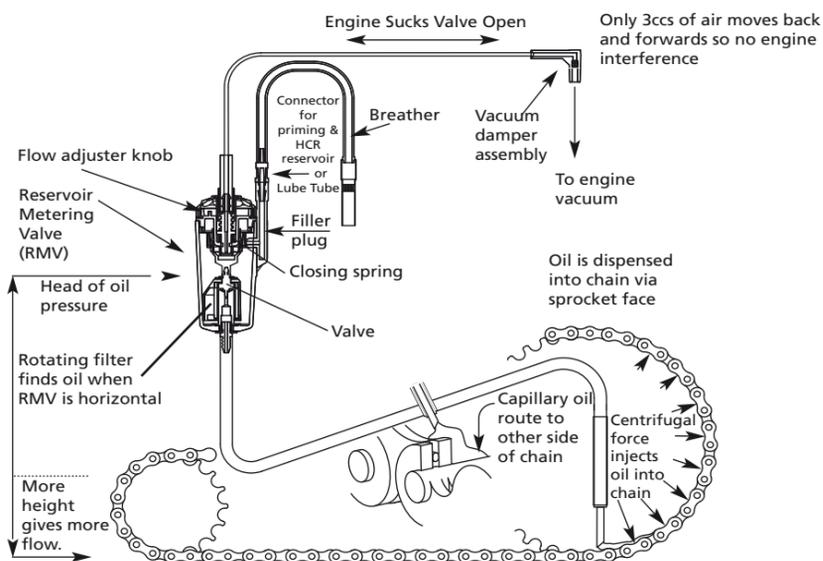
## Limited Warranty

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](http://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](http://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 25ml of oil which should last approximately up to 500 miles.

**4. Can I increase the capacity?** Yes, the Lube Tube flexible high capacity reservoir increases combined capacity by up to ten times.

The Lube Tube can be fitted into any dead space on the bike and will mean up to 5,000 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, it is recommended to use a local motorcycle dealer experienced in fitting Scottoil products.

**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](http://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.