

## Riparazione paraolio della forcella BMW R1100GS

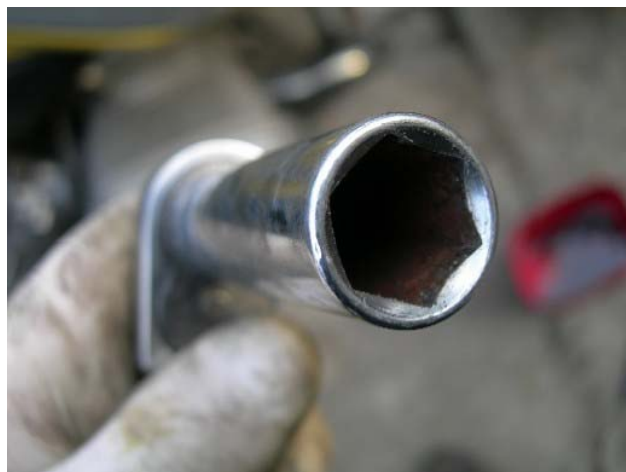
Riassunto dal forum <http://www.ukgser.com/forums/showthread.php?t=97873>

**Steptoe**                      **12-february-2007**      **R1100GS**

Fork seal fitting. A straightforward job which can be done in as little time as 10 minutes.

No cycle parts i.e. tank etc, need be removed

The tools needed.



Start by removing the small plastic cap on the top of the fork leg.

The nut underneath can be corroded, so use a hex socket and not a bi-hex if you can.



Place a 22 mm spanner on the flats at the top of the leg, under the top yolk.  
And the 14mm socket onto the top nut. And undo the top nut.



With the nut removed, push the fork slider down and out of the top yolk.  
The front end will be all sloppy, allowing you to push the bars around and out of the way, and the front wheel can be moved in any direction for convenience.

Pull the fork slider up and out of the stanchion. Wipe the leg as it's removed, as it will have oil residue on it.





Prize out the dust cover. These can be split and deformed, so look before doing the job and have a new one ready if needed.

Underneath you'll see the seal circlip. Prize free with a small screwdriver.



With a seal puller, or similar instrument, pullout the old seal.  
This is easiest done with my puller by pushing the fork leg as far forward as you can.  
Remember, the front wheel can moved to almost any position.



There is a washer under the seal. Pick it out, and clean it - Again, this can be corroded.



New seal – Top



New seal – underneath.



Locate the new seal in place with your fingers, you can push it home a fair way to start it off. Then with a correct sized socket (I use a 1" 3/8ths) you want it to run around the outside of the seal, but be small enough to fit inside the slider lips.

Fit an extension bar onto the socket, and tap home the new seal.



Refit the circlip.



Refit the dust seal, just a push fit.





With a 3mm allen key, undo the small air bleed bolt on top of the fork stanchion and remove it. Making sure you don't lose or damage the "o" ring on the bolt. Push the stanchion carefully back into the slider. Remember the front wheel forks can moved around for the best position. Then pull the stanchion back up, so it's in line with the top yolk, in the same position where it will be when it's in place.



Now keep the stanchion in place, and replace the air bleed screw. Now position the fork stanchion back in place in the top yolk, and refit the nut. Hold the stanchion with the 22mm spanner and do up the 14mm nut. Replace the top yolk plastic cover. Job done.



**atkigasser**      **20-february-2007**      **R1100GS**

Is there not some oil to go back in? If the seal was leaking, the oil level must have dropped. Probably the only way to check the level is to drain all the oil and re-fill.

**Steptoe**      **20-february-2007**      **R1100GS**

As I said at the beginning of the thread - My seal wasn't leaking, but I changed it to show how easy it is. Unless you'd left the seal leaking for months, and have your brake calipers and wheels covered in oil, you won't need to add any oil.

They aren't like conventional forks where the oil acts as damping fluid. There isn't any valves or damping rods etc in the legs. It's basically just to lube the stanchions in the sliders and stop them from seizing/wearing.

You may think you've lost a lot of oil if you find a seal leaking. But a tiny bit of oil goes a long way. If your anal over it, measure where the level is from the top of the non leaking slider, and compare it with the leaking side.

Oil quantity per leg is 485 cc

**Suffolk pig**                      **02-march-2007**                      **R1100GS**

What did you use to lubricate the new seals prior to fitting, from the picture it looks like a grease of some kind or is it vaseline?

**Steptoe**                              **02-march-2007**                      **R1100GS**

They do have a grease on the surface, but I use Marine Grease, especially in/under the dust covers.

**Daihti**                                **02-march-2007**                      **R1100GS**

Steptoe, brilliant post, proved very handy and reassuring before I started.

Had to change mine last night, 20 minutes and 12.00 €

I did as you said with the first fork leg, but with the second the Slider just slipped off the tube, replaced the seal and oil (milky colored) and slid it back on without taking off the tube.

My seals went very suddenly on both sides. They both looked okay but while they were out.

