

## **Rear wiper removal and blanking plug fitting**

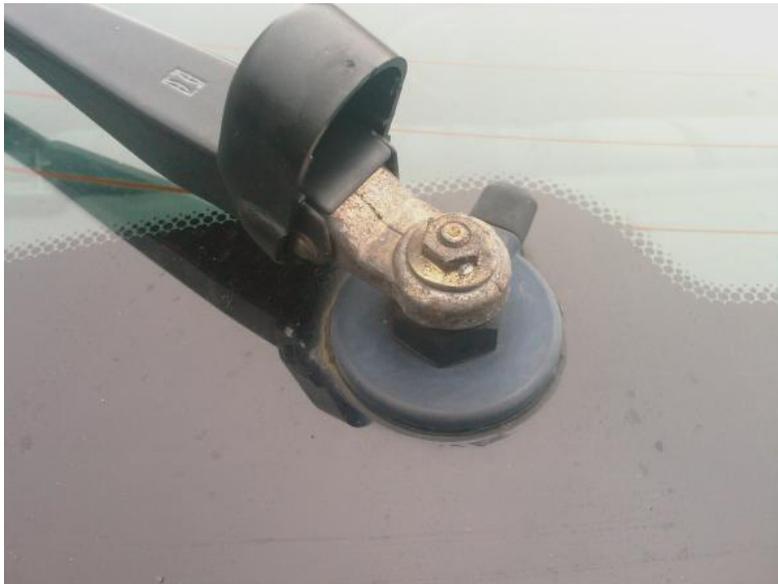
### **Tools/parts needed:**

- Wiper blank grommet
- 10mm spanner
- 19mm spanner or deep socket
- Large Phillips screwdriver
- Small Phillips screwdriver
- Tube of silicone sealant or gasket adhesive
- Small bung/bolt
- 2 x small cable ties
- Bottle of white spirit and kitchen roll
- Cup of boiling water (optional)

### **Step 1: Wiper arm removal**

Flip the plastic cover at the end of the wiper arm and undo the 10mm nut with the spanner. The wiper won't come straight off, you need to twist and push the wiper down against the spring mechanism to free it up. If it still doesn't come off then a little persuasion with WD40 and a screwdriver will do it. Be careful not to chip the glass.

### **[Picture 1](#)**



## Step 2: More hidden nuts

Once the wiper arm is removed there is a plastic cover (nut shaped), pull upwards and that will reveal another nut - this one is 19mm.

[Picture 2](#)



Use the spanner to remove it (NB: You will need a spanner or a deep socket, as the wiper arm shaft is too long to get a normal socket over without fouling on wrench).

[Picture 3](#)



With the nut removed you are left with the plastic cover/washer jets. Simply pull this upwards to remove.

There is then a rubber seal underneath, again pull upwards to remove. You will now be able to see a black plastic disc this is removed in Step 3.

[Picture 4](#)



### Step 3: Wiper motor removal

Open the boot and you will see a plastic cover directly underneath the wiper. Remove the 3 small Phillips screws and the cover will come off, it may also be held in place with a little double-sided sponge tape, pull downwards to peel away the tape.

You can now see the wiper motor.



Unclip the electrical connector from the motor. Remove the 3 large screws which hold the motor to the mount, yes there are 3 screws not 2 - 1 is right at the back of the motor so quite hard to see. You might need to lie on your back in the boot to get access to it. The motor should come drop down, be careful as it is quite heavy so support the motor when undoing the screws. We would suggest removing the rear screw first then the front 2. Tuck the electrical connector away down the back of the boot.

With the motor removed you can now remove the black plastic disc. You can either; push the disc up towards the glass and out onto the parcel shelf, or push the disc towards the rear of the car and it will fall through the hole in the parcel shelf and into the boot.

#### Step 4: Washer pipe blanking

There are a number of ways that you could stop the washer fluid to the rear, from the engine bay, blocking the pump outlet, removing the washer lines etc..... However the simplest method is blanking the pipe from within the boot.

Find a suitable sized bung to block the washer pipe with. If it is a tight squeeze and the bung doesn't slide in very easily then dip the tip of the pipe in boiling water for 10 seconds to make it a little more malleable, the bung should slide in easier. Secure the bung with some cable ties if necessary. Tuck the washer pipe towards the back of the boot. You can refit the plastic cover with the 3 screws if required.

Please note: With this method you will still be able to select the rear washer from the right stalk, so remember that it is not connected up. Using the rear washer is likely to create some pressure in the pipes, and may shorten the life of the washer pumps(s).

#### Step 5: Fitting the bung

Now that everything is removed we are nearly ready to fit the bung. To ensure that you have a good seal around the window/bung you should give the glass a quick clean. Use the white spirit and cloth to get rid of any gunk or leftover sealant.

Apply a thin bead of sealant around the edge of the hole in the glass and then gently push the grommet into place, it helps to also put your hand up from underneath via the boot to make sure it is correctly fitted. Wipe away any excess sealant with the cloth.

#### [Picture 6](#)



Notes:

- Give the sealant a little time to harden before inserting the bung.
- Do not select the rear washer pump (push right stalk forward) otherwise it might shorten the pump life. Similarly it could leak out fluid into your boot.
- Remember that you don't have a rear wiper anymore! If you select the rear wiper on the right stalk (twist forward) nothing will happen (or get damaged)
- Benefits : Your car is now 1kg lighter! It is now one less wiper blade to buy at MOT time! More boot space! It looks better!