

## BLEEDING THE COOLING SYSTEM



Open the bonnet and start by removing the plastic intake pipe above the radiator (white arrow). If you don't have one, you don't need to remove anything.



Remove the screws circled red and remove the plastic pipe. Don't forget the jubilee clip on the right.



After that done, you will now have access to the bleeding screws on the radiator (circled red). If you are missing the right one, its OK, you have a different aircon radiator then my car, or don't have aircon, so you only have the left one. If you only have the left one, it will probably be located on the radiator around the position shown with the red arrow on the picture 2.

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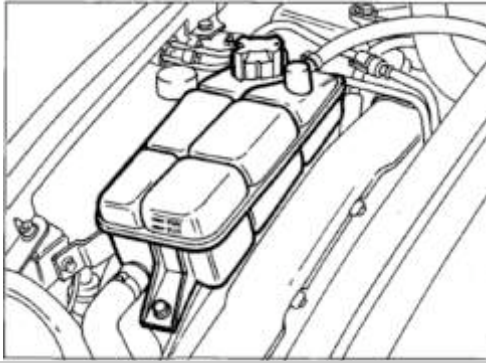
B00-flat bravo/a owners organization and SvenJTD



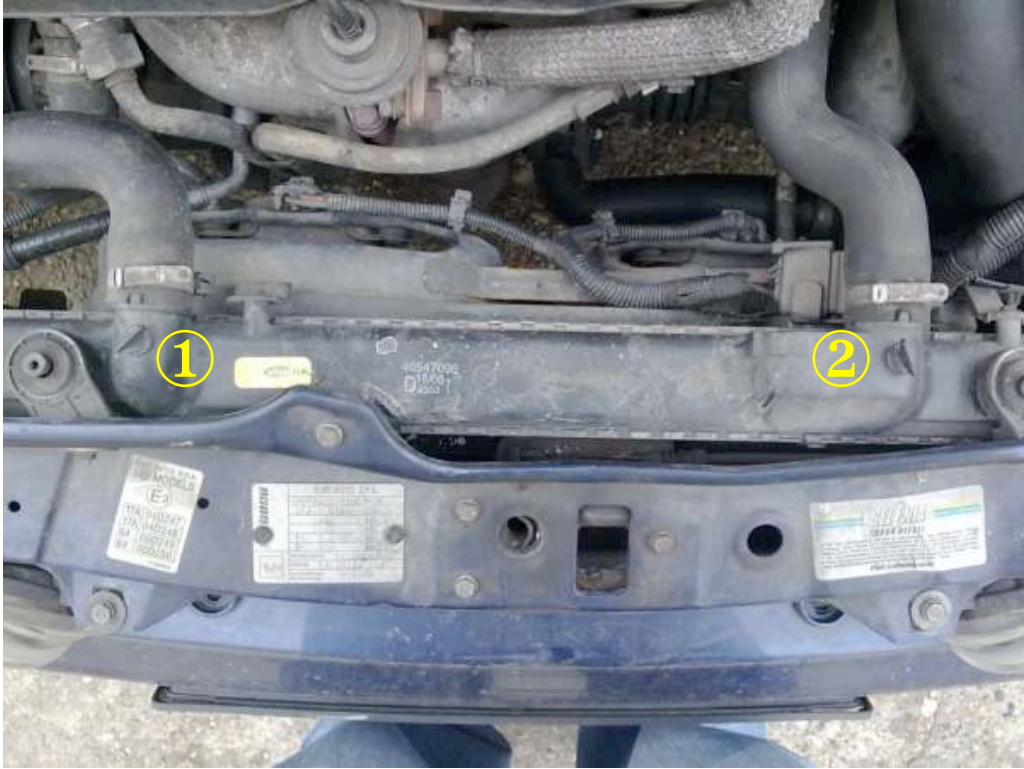
Now look between the engine backside and the cabin wall of the car (white arrow picture 1 and 2) and locate the pipes that go to the in car heating radiator (there will be the only ones that go to the wall of the in car space with jubilee clips on the ends). On one of them you will see a valve that looks like on the picture 3 (symbolic photo not 100% visual identical, but the same system). If you don't have that valve, its OK, just forget about it then, but do look good for it to be 100% sure.

That's all of the stuff you need to find.  
We now go to the bleeding procedure. There are 2 versions of the system so there will be 2 procedures.

Procedure 1: **Expansion tank**



Start filling new coolant in the tank till it gets to the MAX mark.



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Now when it has reached the MAX mark start to open the bleeding screws in order from 1 to 3 like on the pictures above.

So open the screw number 1, close it when the coolant starts to pour out.

Then open the screw 2 and close it when coolant starts to pour out.

Finally open the screw 3 using a screw driver, **do not** unscrew the star shaped valve, but just the middle part that has a screwdriver cut in it. After the coolant starts to pour out, close it, using a screwdriver.

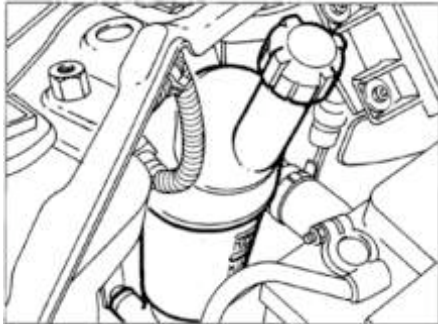
Top the coolant in the tank to the MAX mark and leave the expansion tank cap **OPEN**.

Start the engine and in regular intervals rev it to: petrol 4000rpm, diesel 3000rpm for several seconds, so rev it a few seconds, let it idle, rev, idle and so on. Do this until the cooling fans kick in.

Observe that the coolant level in the expansion tank **doesn't drop** under the MIN mark. Top up if needed during idling.

Basically you're done when the fans kick in. Stop the engine, close the tank cap and let the engine cool down. After it's cooled down, check if the level in the expansion tank is at MAX, if not top a bit to the MAX mark and all is done.

#### Procedure 2: **Direct filling on the radiator**



Start filling new coolant in the radiator.

**REFER TO THE PICTURES FOR COMPENSATION METHOD !!!!!**

Now when it has reached the MAX mark start to open the bleeding screws in order from 1 to 3 like on the pictures above.

So open the screw number 1, close it when the coolant starts to pour out.

Then open the screw 2 and close it when coolant starts to pour out.

Finally open the screw 3 using a screw driver, **do not** unscrew the star shaped valve, but just the middle part that has a screwdriver cut in it. After the coolant starts to pour out, close it, using a screwdriver.

Top the coolant in the radiator to the MAX mark and **CLOSE** the cap.

Start the engine and in regular intervals rev it to: petrol 4000rpm, diesel 3000rpm for several seconds, so rev it a few seconds, let it idle, rev, idle and so on. Do this until the cooling fans kick in.

Basically you're done when the fans kick in. Stop the engine and let the engine cool down. After it's cooled down, check if the level in the radiator is at MAX, if not top a bit to the MAX mark and all is done.