

MAF Removal for Model Year 2004, Mercedes E320 V6

You will need:

- a) A flat-blade screwdriver to use as a lever. There is nothing to screw or unscrew
- b) A spray-can of MAF Cleaner (CRC make one. There are others. Do not use anything not labeled for MAF cleaning)
- c) A new MAF, if you intend to replace the old one

This is a fairly easy procedure and can be done in 20 – 30 minutes. I include lots of photos to make it easy, not because it's actually hard.

First, raise the hood vertically and remove the air-cleaner (not shown or described here)

The MAF is in the center, rear, of the engine. It has a metal grill on the top.

Photo 1: The MAF assembly after removal. (upside down, actually).



Photo 2: The Plastic Collar that Supports the MAF, after removal. Underside of collar is facing camera. Collar is spread slightly by my finger

Arrow shows the “clip” part of the collar. Use the screwdriver to slide the clip apart.

The thing in the background with the mesh grill on top is the MAF, still in position.

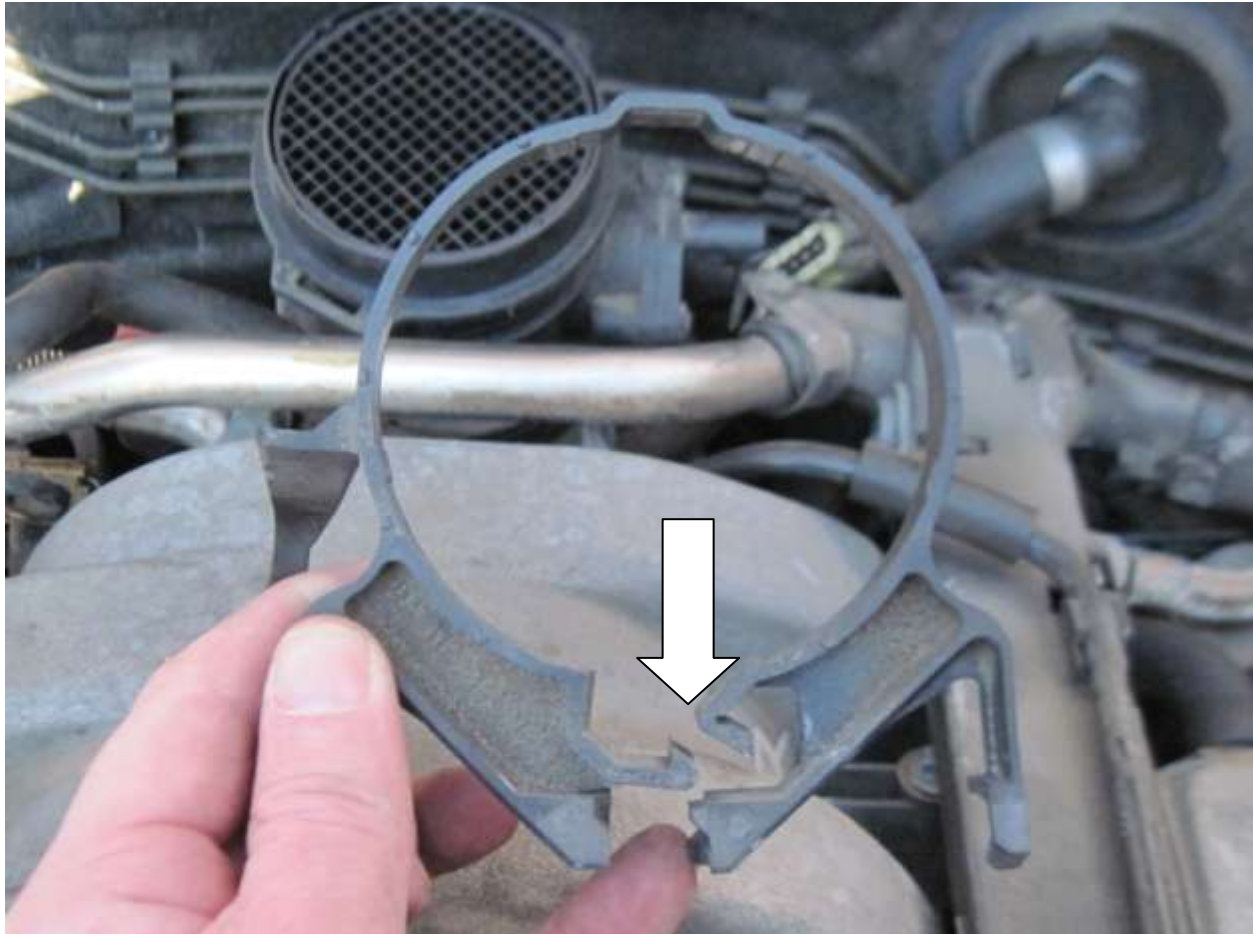


Photo 3: The MAF In-Place, at the back of the engine. View from LHD driver's side

Step 1: Remove the electrical connector. The plug has a clip on top and bottom. See photos 4 and 12 also.

Step 2: Release the plastic collar clip with screwdriver. Place screwdriver where the red dot is in the picture and lever apart the clip to get one part of the clip passed the other. The collar then needs to be opened up quite a lot and removed. There is a small vacuum hose that rests on the collar on passenger side. See also photos 5 and 11.

Step 3: Lever the metal clip toward the back of the car and lift the MAF a bit or the clip will keep returning to its original position. See photos 6 and 10 also.

Step 4: Pull the MAF up and out of the car by the handles. Wiggle it a little side to side. Expect friction from the rubber collar/gasket at the bottom of it. See also photos 7 and 10 for view of rubber gasket.

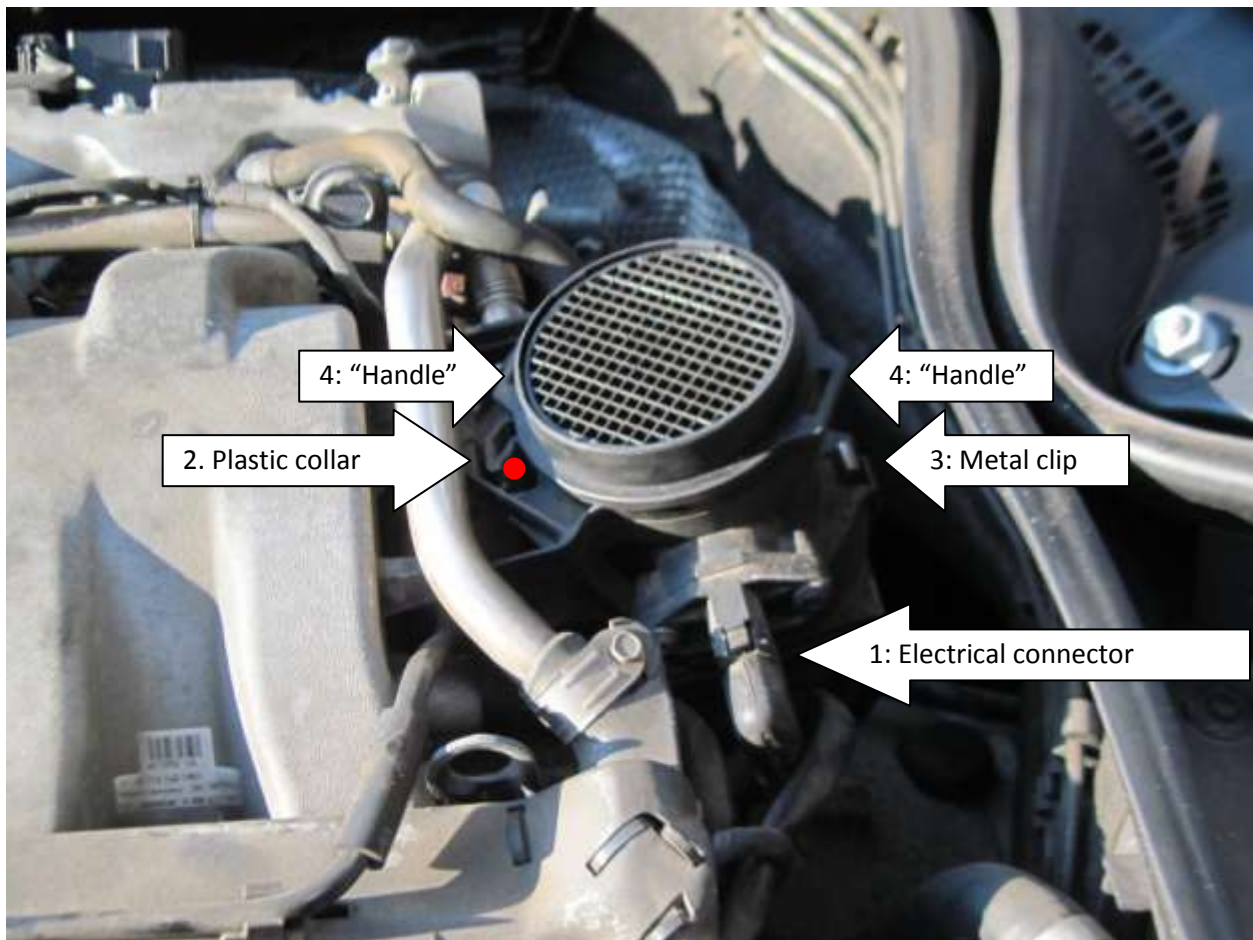


Photo 4: Another view of the electrical connector. There is a clip on the top and bottom of the connector



Photo 5: The Plastic Collar Again, showing how the two halves of the clip slide apart



Photo 6: Another view of the metal clip at the rear



Photo 7: The seat for the MAF (not the MAF itself), on the engine. Throttle-body is below. Note the rubber seal that stays behind and the metal clip that was earlier levered out of the way

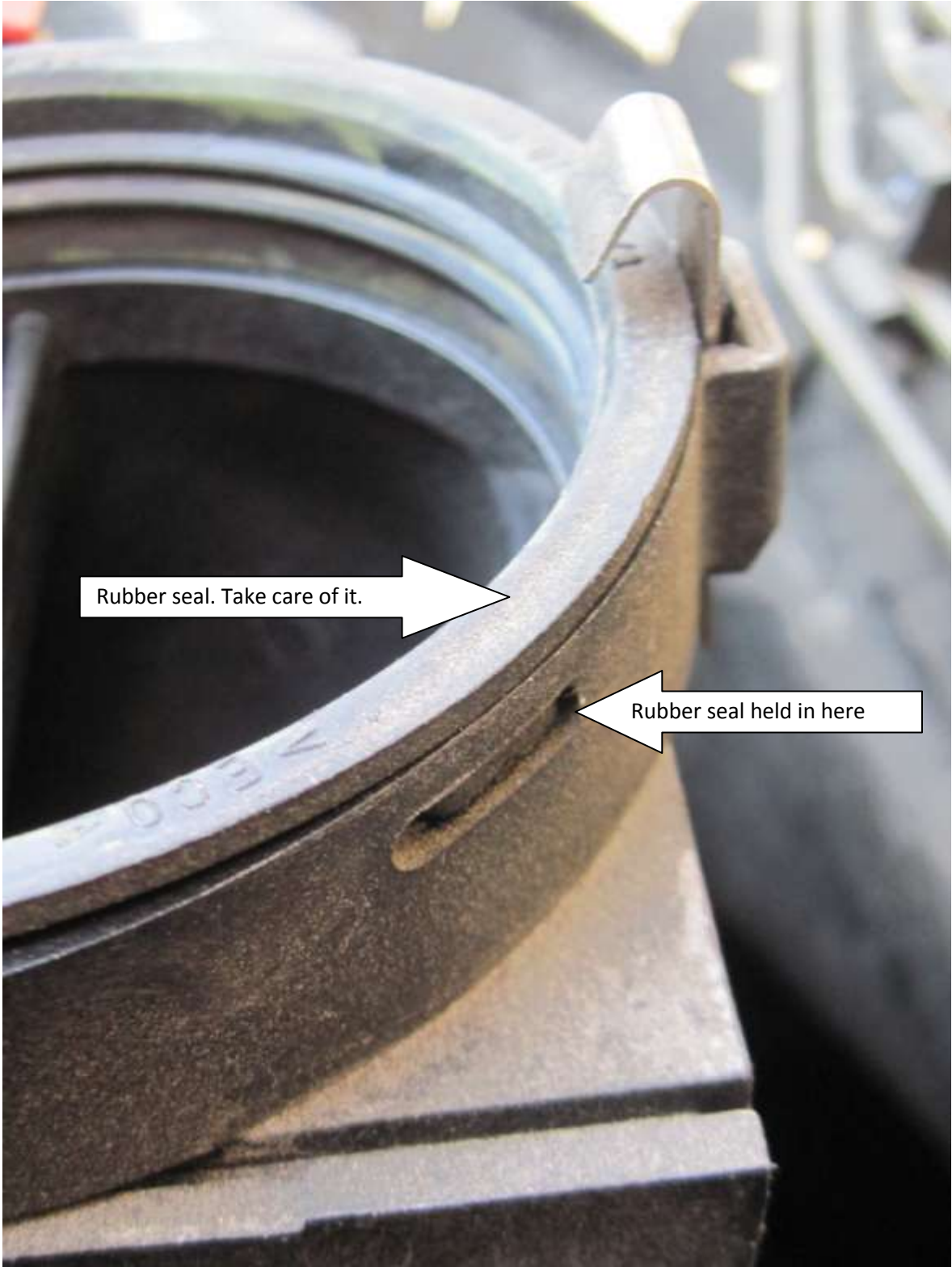


Photo 8: The sensor itself, inside the MAF assembly...(this is after cleaning it with spray). The wires are not visible in this view. A view from the other end, through the mesh, would show them.



Photo 9: Spray the MAF from several directions. Use MAF spray. Nothing else! It will dry quickly, but be sure to twist it in a few directions to get any pooling chemical to dry out. Spray from this end, and also through the mesh. It is the metal wires you really want to clean and they are best accessed through the mesh. Drench it if you want to. It will dry out.

Do not touch anything inside the barrel of the MAF assembly and do not use anything, such as a cotton bud to help clean the wires.

Do not attempt to disassemble the MAF further.



Photo 10: Another view of the engine with the MAF removed, from passenger-side this time. The MAF power-lead is to the top of frame.



Photo 11: Reinstallation now. Place the MAF back on the car. Push it down into the rubber seal carefully.

This photo shows the collar clip again, after placing the MAF back on the car and before levering the clip back in place. (This is also how it would have looked just before removal of the collar, after you used the screwdriver on it)

Push the collar together to remove the gap and lever the clip back to its closed position



Photo 12: The electrical connector. Push it back on. You should feel it click home



Photo 13: The underside of the air-cleaner. The air-cleaner mates over top of the MAF. Seat it properly by crouching down at the front of the car and looking carefully as you lower the aircleaner back onto the MAF. You will need to push it down.



####End