

Vacuum Pump replacement

SEAL RING 6689970145

Gasket 2712380180

Pump 2712301165 (new pump comes with seals)

Pro-Line PPL-35610 oil filter for gasket

¼ inch ratchet

8mm socket or 5/16 12 wall socket

Torx socket set (if replacing seals)

There seems to be two options with this. Either replace entire pump (easiest, \$140+-) OR take old one out and replace seals (less pricey 12+-, but cause for leak may not be seals)

Option #1

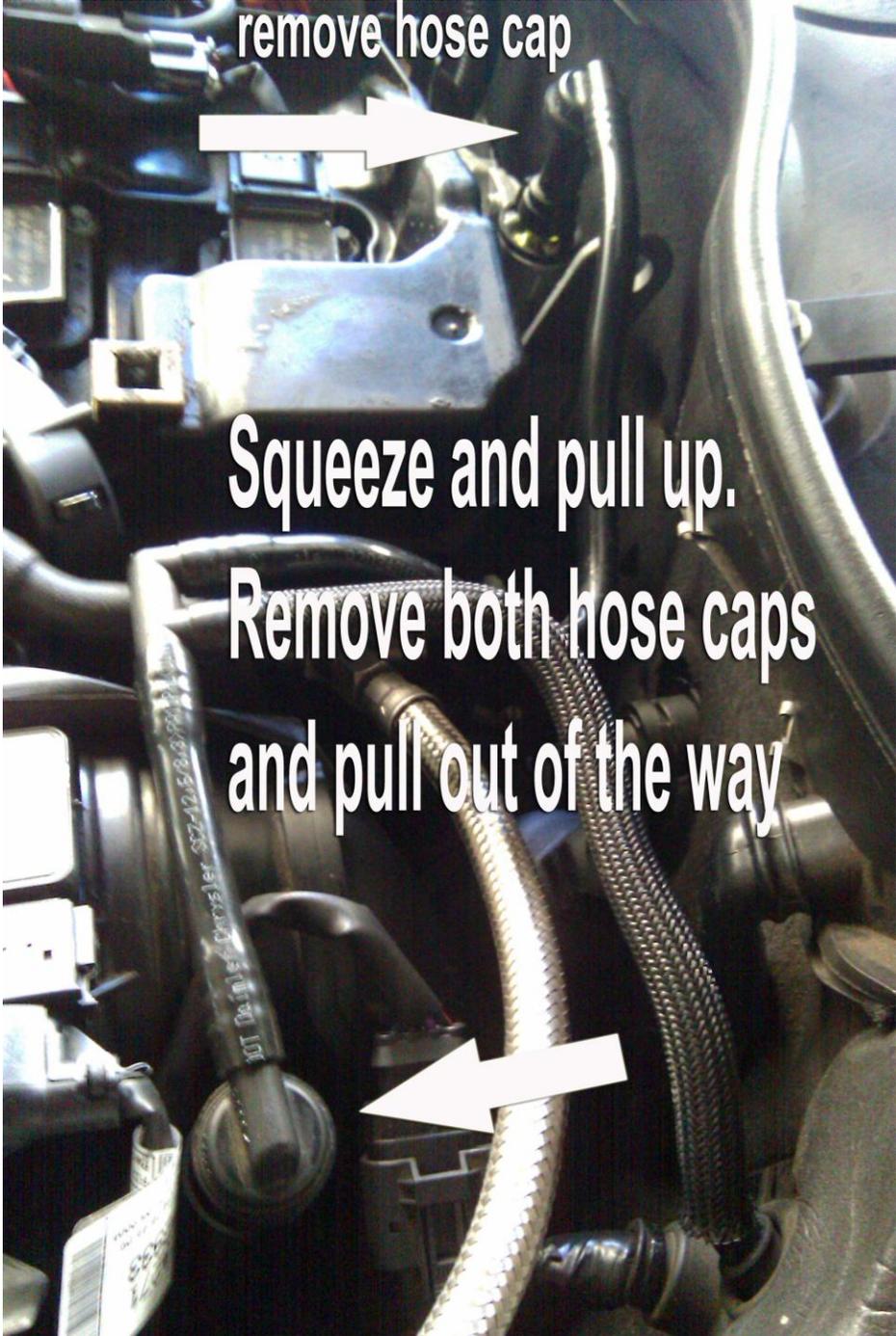
1. Better to do this repair when engine is cool.
2. Gather tools.
3. Locate pump on back engine, passenger side of engine, between fire wall and engine. Remove engine cover. Remove 2 hoses in image by squeezing and pulling up. Makes it easier to see and get to. (may need a light and mirror)
4. Loosen 8mm bolt on engine hook from driver side (easier to reach from driver's side). There are 2 but you should only need to loosen the top one.
5. Put flat tip screwdriver in hole of engine hook and slide it towards the driver side. It may take a bit of muscle but its easier then taking the bottom 8mm bolt out and removing the engine hook. You only need it out of the way to get to the 8mm bolt on the pump. #1 bolt in the image. Be careful not to drop the bolt.
6. Then go around to passenger side. Loosen and remove 8mm bolt on passenger side. Make sure you have a hold of pump while getting to the last few threads of bolt. (You don't want the pump to fall) These bolts should be pretty easy to remove once you loosen them with a ratchet.
7. Look at the pump removed, the position of the gear. That's the way you put the new one in. It will only go in one way.
8. Install new vacuum pump, tighten engine hook bolt, and replace hoses. Start car and inspect for leaks.

Option #2

1. Everything the same except you can replace gaskets. Once you have it out, you will see the first two. One is a ring gasket on the shaft and the other is a flat gasket on the mount.

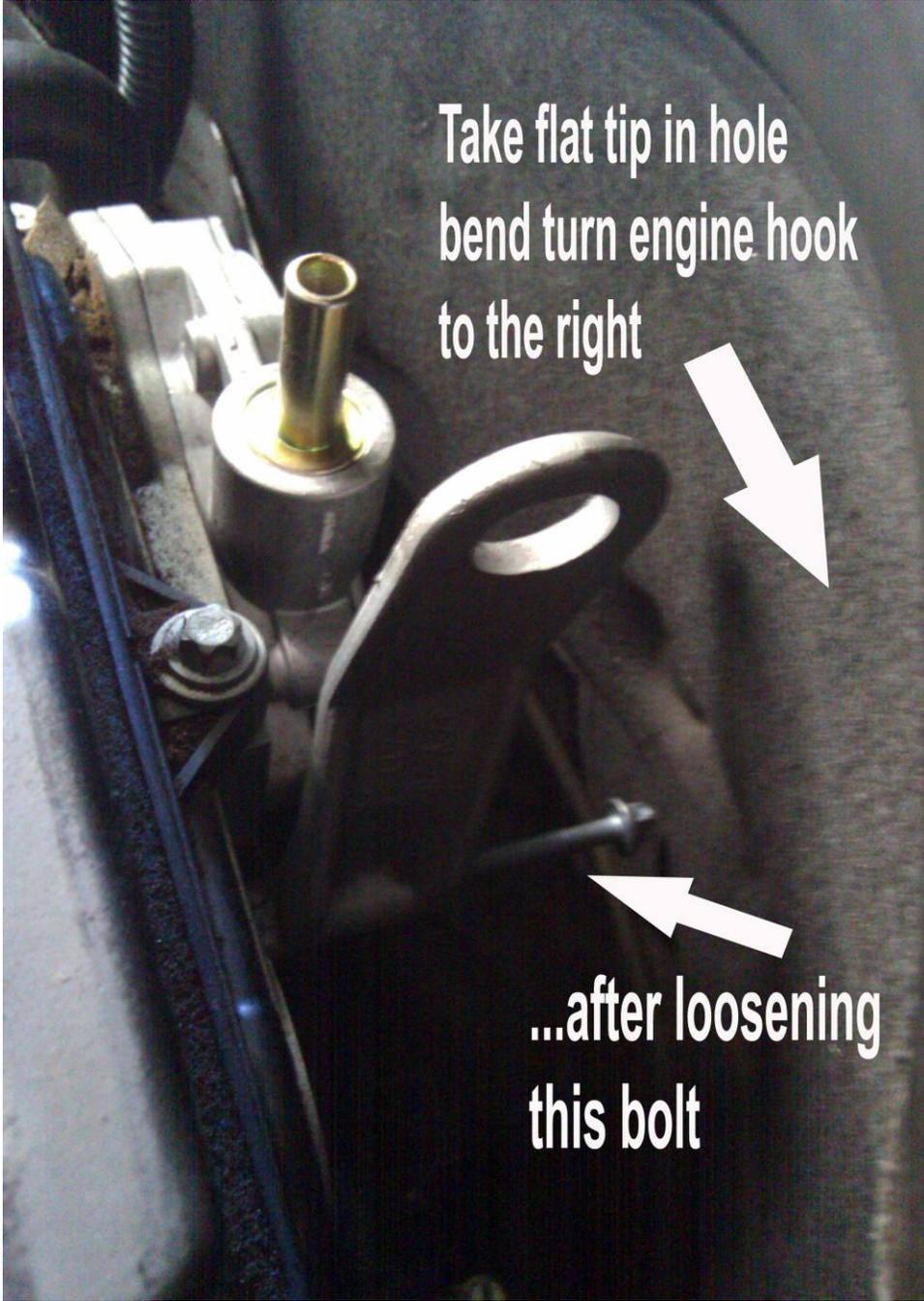
2. There are 5-6 torx screws on the pump body. Unscrew and open. There is a gasket underneath that is the same size as the one that comes with the Pro-Line PPL-35610 oil filter. It's a little tight but it can be stretched into place.
3. Put the torx screws back on and put back together, same as above.





remove hose cap

Squeeze and pull up.
Remove both hose caps
and pull out of the way



Take flat tip in hole
bend turn engine hook
to the right

...after loosening
this bolt



**E
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g
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n
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Bolt 2

Fire Wall

Pump

Bolt 1

Engine Hook



New Vacuum Pump



Old Leaking pump

Notice Leak