



How to Replace the DVD Laser of an RNS-E

All pictures sourced online – Not my own

If your RNS-e begins to struggle reading discs, it's very likely the laser needs replacing.

For a replacement laser, send me an email at

axlj44@dsl.pipex.com

What You'll Need

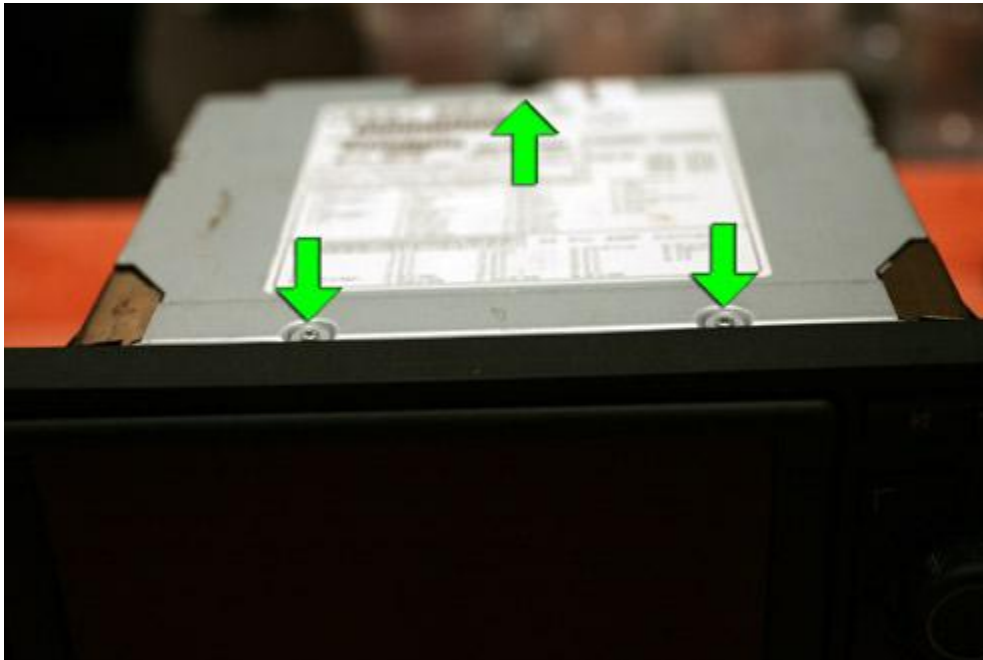
- Range of Phillips screwdrivers
- Jewellery Screwdriver PH 000 (Basically just a very small Phillips screwdriver)
- Soldering Iron
- Solder

DVD Drive Removal

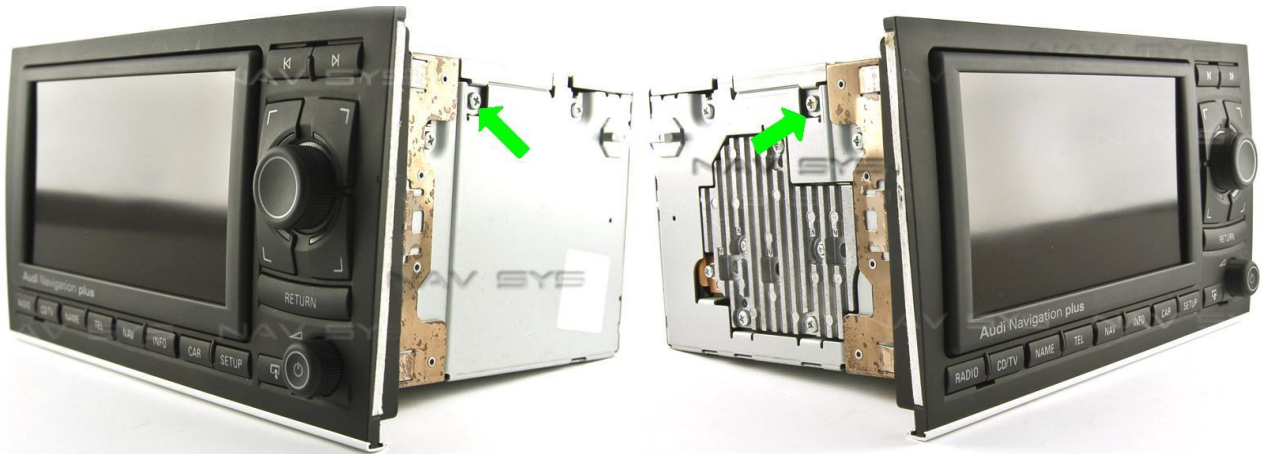
The first this we need to do is get access to the DVD Drive, this is very easy.

Make sure the RNS-e does not have a disc inside!

1. With the RNS-e removed from the car, remove the 3 screws on the top of the RNS-e.



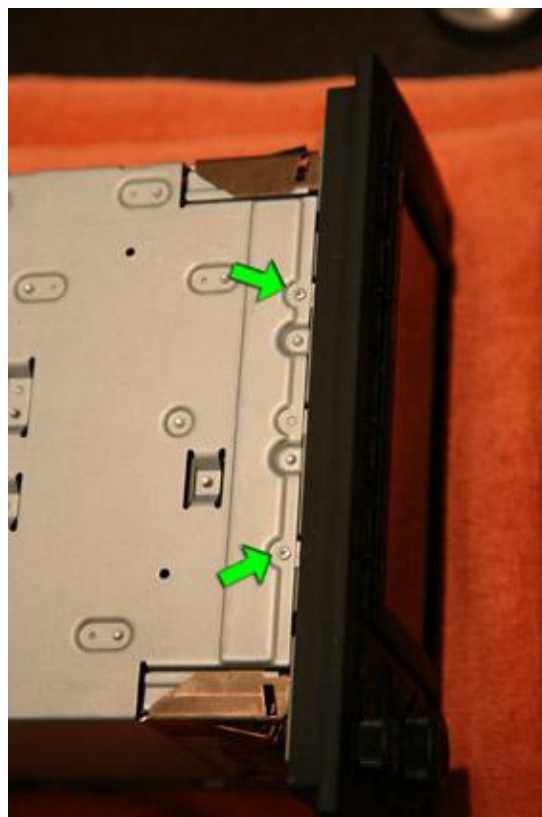
2. The 2 screws on the side of the RNS-e (1 each side)



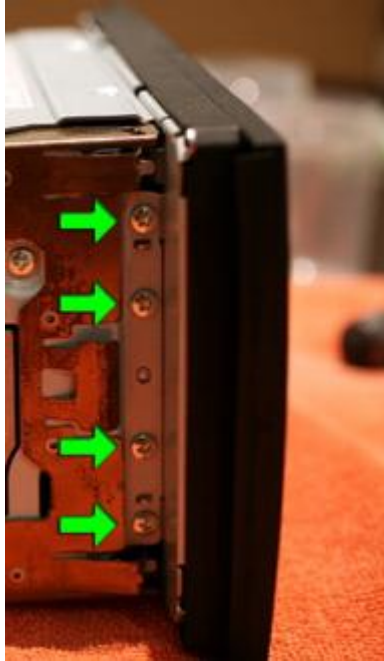
Now that you have the top cover removed, you should now be able to see the DVD drive and laser.

The next step is to remove the front of the RNS-e, allowing access to the front mounting screws of the DVD drive.

3. Remove the 2 screws on the bottom of the RNS-e



4. Remove the 8 screws that hold the Front interface onto the main Casing of the RNS-e (4 either side)



Once all 8 screws have been removed, gently pull forward the front interface of the RNS-e, this in turn will pull the RNS-escreen forward. Once at full extension, the 3 screws holding the screen onto the screen mount will be visible, as pictured below.

5. Removed the 3 screws holding the screen in place.

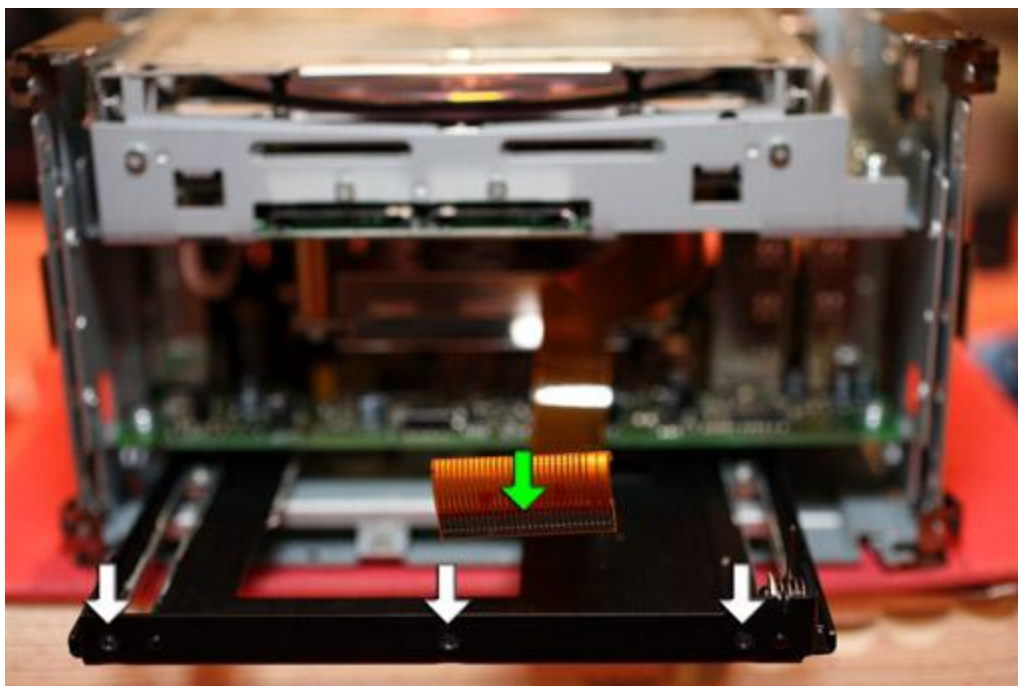


Be careful not to damage the sliding mechanism on the screen

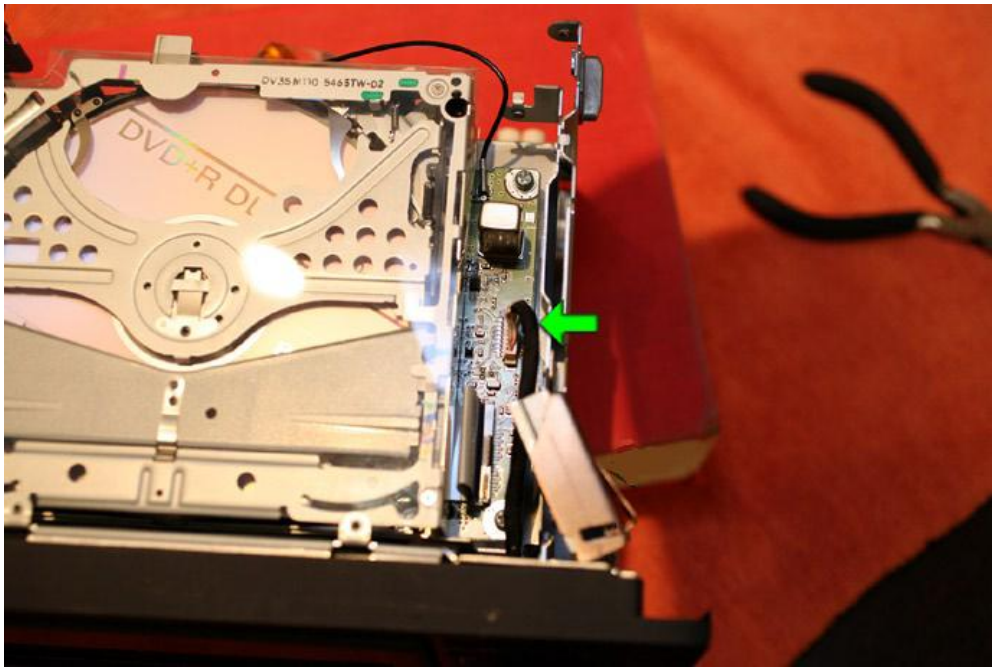


Once the 3 screws have been removed, you will notice that there is a ribbon connected to the screen, remove this ribbon.

The Front interface of the RNS-e will now come free, leaving you with this:

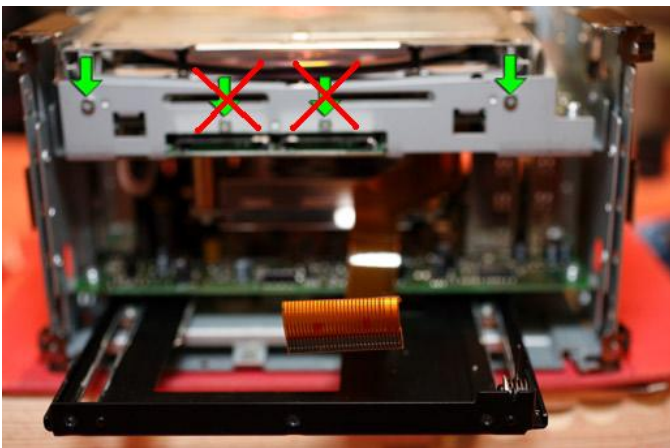


6. Now remove to connection on the RNS-e motherboard pictured below:



The next step is to remove the DVD drive itself, this is a simple step and only involves 4 screws, and one ribbon.

7. Remove the 4 screws which hold the drive in

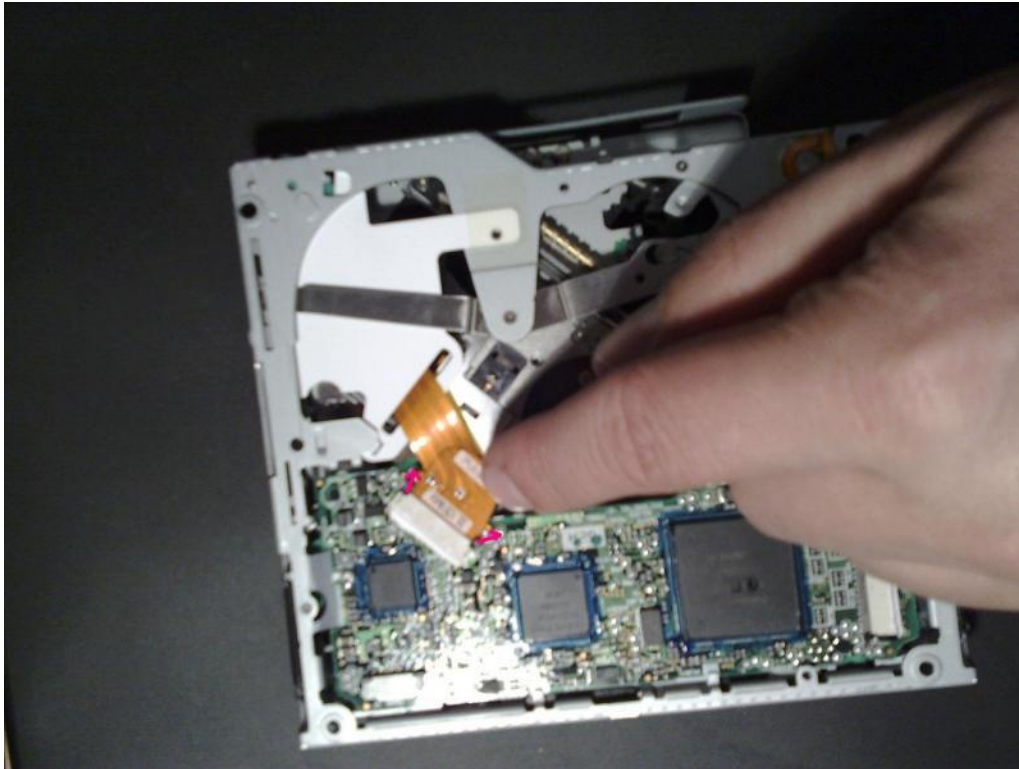


As you lift the DVD drive, it is connected via a white ribbon on the underside, remove this as you lift the DVD drive.

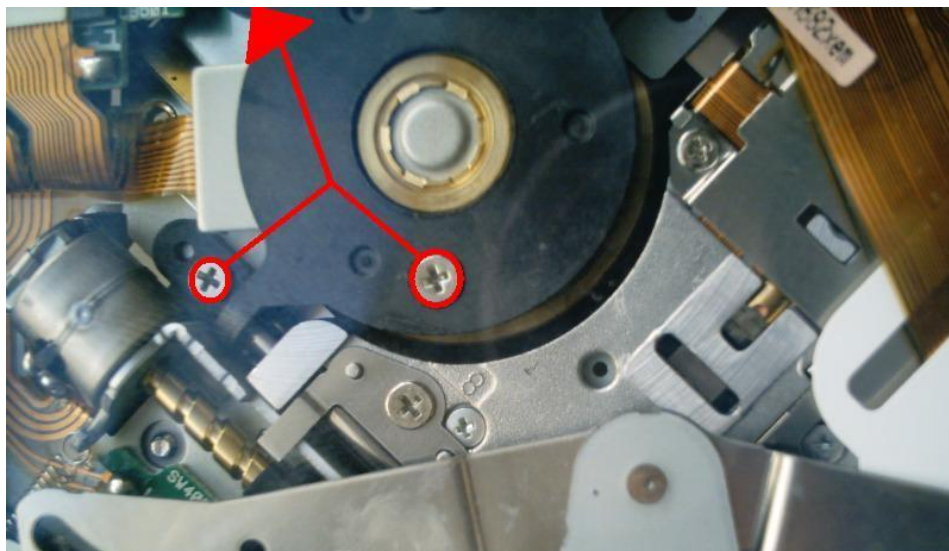
Laser Removal

Now the DVD drive is free, we need to remove the laser.

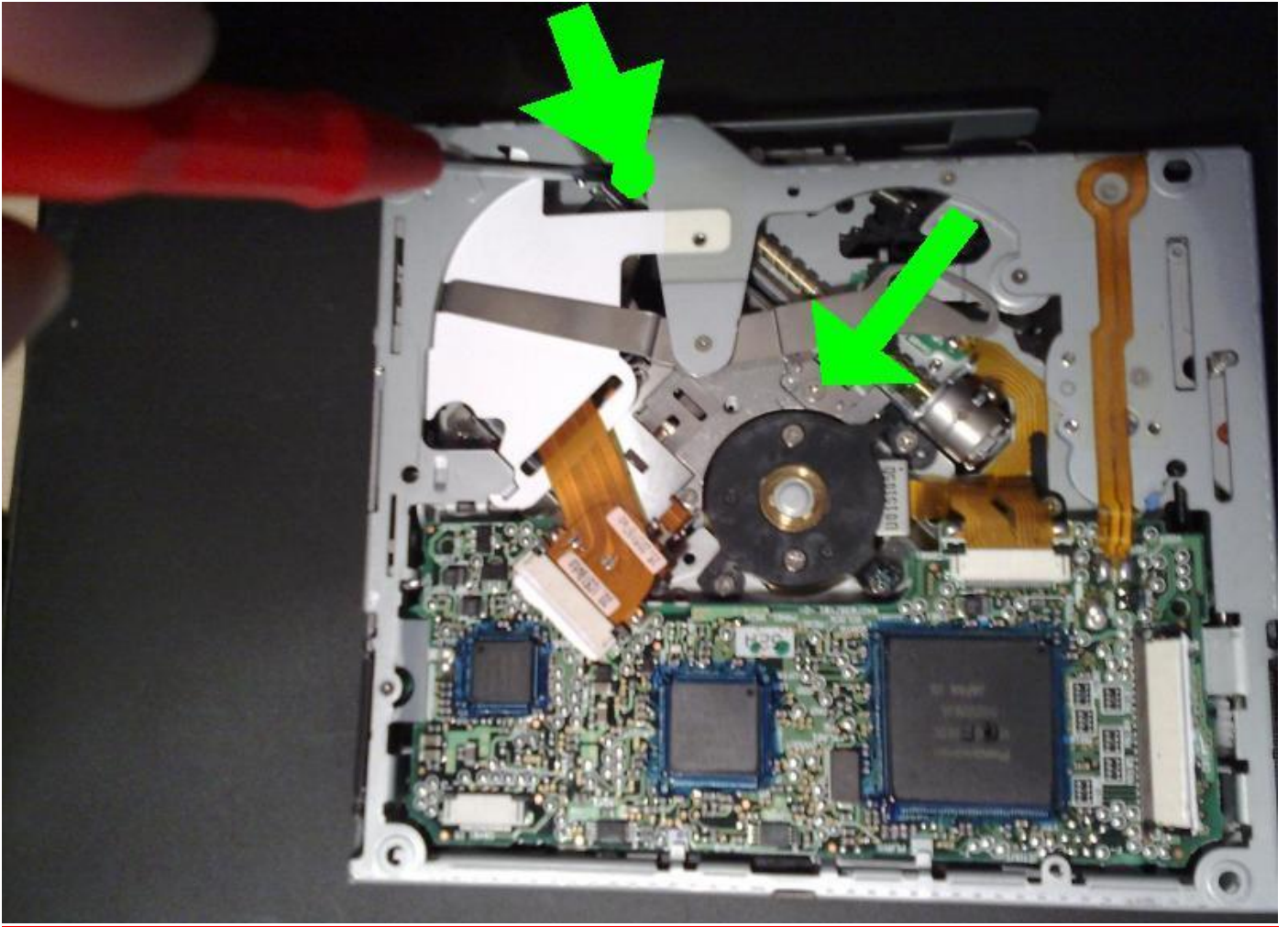
8. Firstly, un-solder the laser via the 2 contact points, once the ribbon has been un-soldered, the ribbon can be disconnected from the DVD drive board.



DO NOT REMOVE OR TURN ANY SCREWS ON THE SPINDLE, PICTURED IN RED



9. Next, remove the 2 screws connecting the laser unit to the control rail.



10. Remove the alignment rail from the DVD drive, allowing the laser to come free.

Replace the old laser with the new one

11. Once the new laser is installed, remove the 2 solder contacts on the ribbon. These are here to ensure the laser is not damaged by static during transit.



Reverse the above steps to re-assemble the RNS-e