

01 Driver opening

Unscrew and carefully remove driver's back cover.



01.1



01.2

02 Diaphragm assembly removal

Remove diaphragm assembly fixing screws and carefully lift the assembly parallel to the motor structure. In case of mylar shims presence, please save them for STEP 7!



02.1



02.2

03 Magnetic gap cleaning

Clean the magnetic gap with the help of the paper strips provided in the packaging, after wrapping them with adhesive tape - adhesive side outwards. Be sure there are no dust particles left into the magnetic gap.



03.1

04 Phase Plug Height (PPH)

The number written on each magnetic structure is unique and represents the distance in mm between apex of phase plug and the driver top plate.

We will refer to it as **PPH (Phase Plug Height)**.

Take note of PPH value.



04

06 Mylar Shims

In order to set the correct DAH to PPS distance, Eighteen Sound provides three kind of mylar shims with different thickness:

- gold 0.05mm
- black 0.10mm
- transparent 0.20mm



06

05 Diaphragm Assembly Height (DAH)

The number written on each diaphragm assembly is unique and represents the distance in mm between the diaphragm apex and the aluminium ring plane.

We will refer to it as **Diaphragm Assembly Height (DAH)**.

Please take note of original and replacement diaphragm DAH values.



05

07 Diaphragm to Phase Plug Space (DPPS)

The difference between DAH and PPH represents the distance between diaphragm and phase plug without using any mylar shims. Adding to this difference the factory shim configuration thickness found in STEP 2 will give you the **Diaphragm to Phase Plug Space (DPPS)**.



07

08 New diaphragm assembly placement

Please use the shim configuration that will allow to reach with the new diaphragm the closest DPPS to the 0.80 ± 0.05 mm factory value. Position carefully the new diaphragm assembly on the magnetic complex and fix it with the screws.



08.1



08.2

09 Closing the driver

Now position the back cover taking care of the O-ring positioning, if present. Screw on the back cover to the magnetic complex.



09.1



09.2

10 Acoustic test

We recommend applying a 3V RMS 200Hz - 1000Hz sinusoidal sweep signal to check assembly alignment in the gap. There should be no noises or vibrations not coherent with the original sweep.