

## JRC NRD 535 Balancing the Tuning Knob

### Introduction

The tuning knob of the NRD 535 moves sometimes by itself. There is no possibility provided by the manufacturer to optimize the friction of the gear with a screw or similar like provided with other rigs. The only possibility is to “Lock” the frequency – but this is not good for permanent tuning.

### The solution

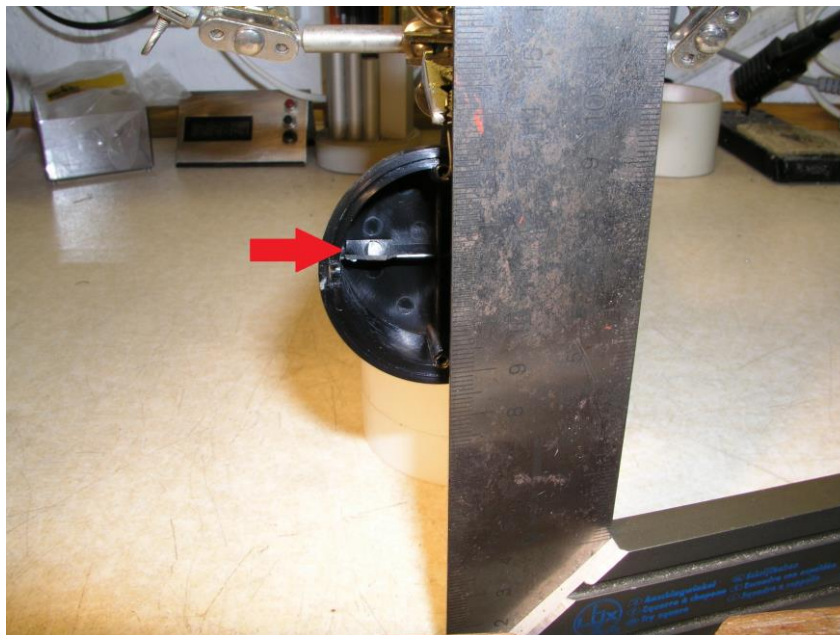
The reason for this mystery autotuning is the tuning knob itself, which isn't balanced; the finger dimple causes this effect. This dimple has a little bit more mass than the opposite side of the knob. It's necessary to balance this knob (picture 1).



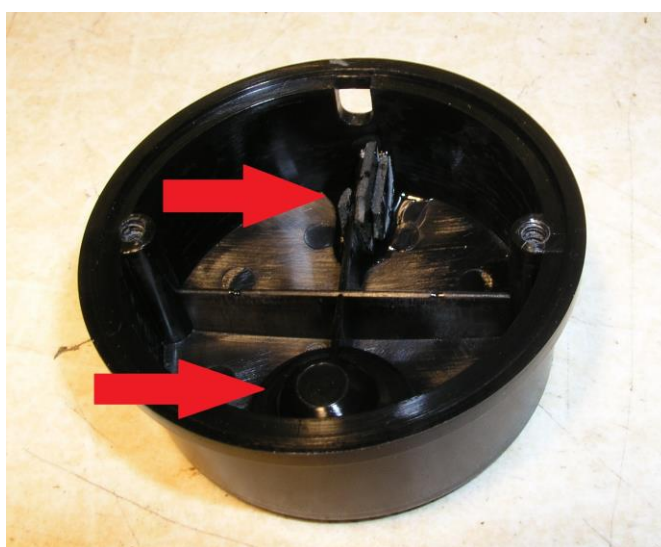
Picture 1 Testing the balance

Hang up the knob with a small piece of wire so that it can move free (Picture 1). Now check with a try square that the knob is balanced when adding some pieces of plastic (Picture 2, red arrow).

***Consider the weight of the glue you need later to fix the pieces – so don't compensate the unbalance completely with the plastic pieces.***



Picture 2 Adding some plastic pieces to balance the knob



Picture 3 READY – the balanced knob

Now the dimple is compensated (Picture 3); fix these pieces with a drop of glue.

***Be careful and avoid covering the hole for the screw driver!***

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