



Yaesu VX8DR PLASTIC ROTARY KNOB Replacement

Replace or repair your worn out rotary knob for the Yaesu VX8DR with a 3d printed rotary knob

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INTRODUCTION

This guide will show you how to replace your worn out or broken rotary knob with a 3d printed one for your Yaesu VX8dr.

TOOLS:

- Phillips #0 Screwdriver (1)
- Precision Utility Knife (1)

PARTS:

- 3d printed rotary knob (1)

Step 1 — Ye olde knob



- The original rotary knob is quite worn. This is a rubber piece that is bonded to hard plastic underneath. This rubber can separate in time so we're going to replace it with a 3d printed knob

(i) Note: I don't see how this repair/modification would affect the **waterproof** status of the radio. I guess if you wanted you could put a tiny dab of silicone on the screw before you put it back in but it doesn't look like Yaesu did anything like that from the factory. Just know that you are attempting this repair/modification at your own risk

Step 2 — Remove the rotary knob screw

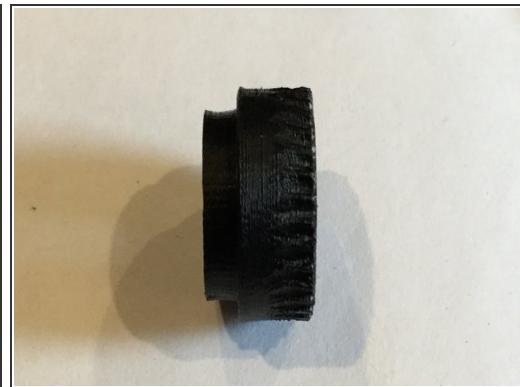


- To remove the old knob you should position the radio where you can put your fingers around the knob and help **hold it in place** while you turn the screw

- i** It is best to try to use a screwdriver that fits snuggly. You don't want to use one that doesn't positively touch all contacts of the screw head. A loose fitting screwdriver could strip the head of the screw

! This screw is "normal" right hand thread. So, Righty-Tighty and Lefty-Loosy

Step 3 — Out with the old. In with the new.



- After removing the screw you can gently pry or pull the old knob off. Now would be a good time to clean out the crevices on the radio where the old knob sat.
- You will now want to get your newly printed knob. Use the .stl file **at the bottom of the page** to either print your own or have it printed and shipped to you.
- I printed this one in ABS but it would probably be even better in PLA. I printed this one with the top on the print bed. (upside down)

Step 4 — Test fit and adjust



- You will now want to put the new knob on the rotary encoder. You can see that there are 2 rounded sides and 2 flat sides and they have to go together in that orientation.
- Test fit it first and make sure it will fit snugly. You will have to use some pressure to get it on but don't get excessive. You may have to use a razor blade or exacto knife to shave a bit of plastic off of the rounded or flat sides of the inner wall to get a smooth, but snug, fit on the rotary encoder.

Step 5 — New Knob!



- Now you can reinstall the original screw and do the final assessment. The new knob should rotate freely and not contact any side of the radio. Congratulations you just saved yourself \$\$ by making and repairing your own.
- *i* This repair may work on other versions of the VX8 series but I have not tested them. Let me know if it does.

