



1. End Cap Assembly

Written By: REA



**TOOLS:**

- [Penetrator Wrench](#) (1)
- [17mm Spanner](#) (1)

**PARTS:**

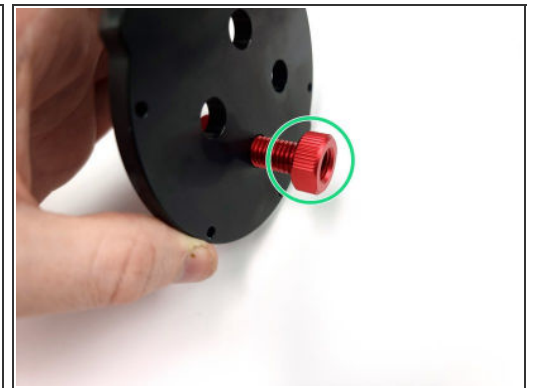
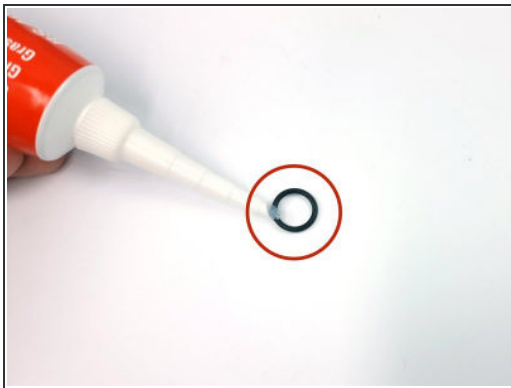
- [O-Ring Flange](#) (1)
- [Aluminium End Cap - 4 Holes](#) (1)
- [Penetrator Blank](#) (1)
- [Penetrator - 6mm Hole](#) (1)
- [Penetrator - 8mm Hole](#) (1)
- [Vent & Plug](#) (1)

Step 1 — End Cap Parts



- End Cap Flange
- 4 Hole End Cap
- Face O-ring
- Diameter O-Rings
- M3 x 12mm Crews

Step 2 — Install 6mm Penetrator



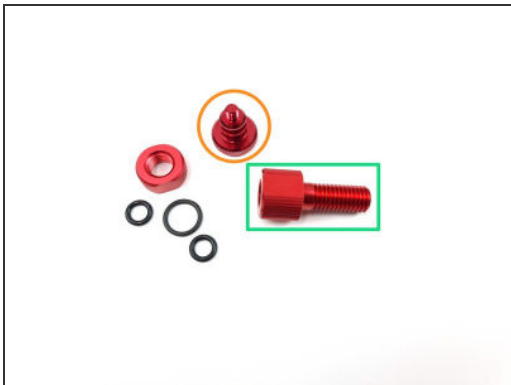
- Lubricate the O-ring with a thin layer of silicon grease.
- Install the O-ring onto the penetrator
- Insert the penetrator into one of the holes in the 4 hole end cap
- Thread the nut onto the penetrator

Step 3 — Use Penetrator Wrench



- Use the Penetrator Wrench to tighten the nut of the penetrator
- To get a good tight fit use a spanner on the head of the penetrator while tightening with the penetrator wrench on the nut

Step 4 — Prepare Vent & Plug



- Lubricate the O-rings with a thin layer of silicon grease.
- Install the small O-rings on the plug
- Install the large O-ring on the bolt

Step 5 — Install Vent & Plug



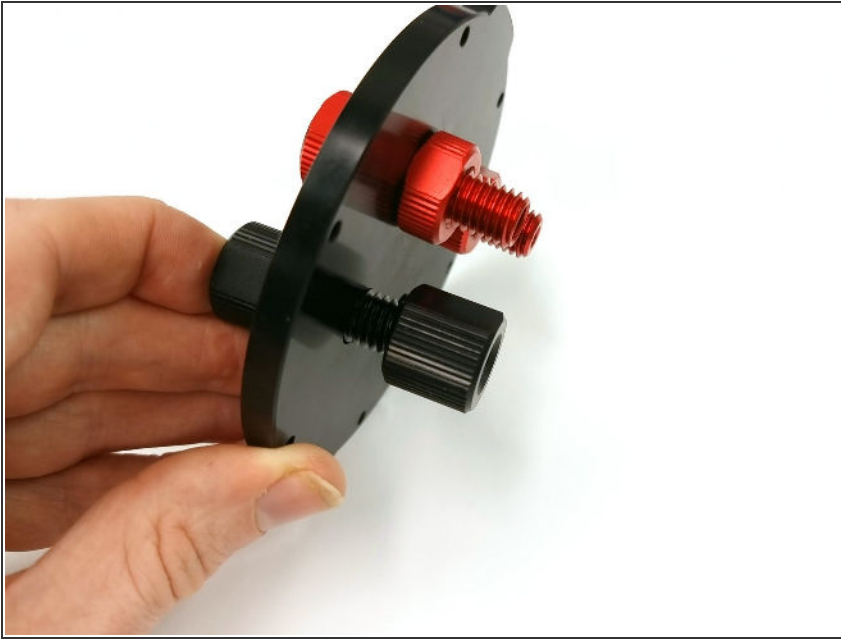
- Insert and fit the bolt of the vent to the cap and tighten the nut on the back
- Screw the plug into the vent

Step 6 — Prepare the 8mm Penetrator



- Lubricate the O-rings with a thin layer of silicon grease.
- Install the O-ring onto the bolt

Step 7 — Install the 8mm penetrator



- Insert the penetrator into the end cap.
- Screw on the nut and tighten

Step 8 — Prepare Penetrator Blank



- Lubricate the O-rings with a thin layer of silicon grease.
- Install the O-ring onto the bolt

Step 9 — Install the Penetrator Blank



- Insert the penetrator into the end cap.
- Screw on the nut and tighten

Step 10 — Install end cap onto flange



- Lubricate with silicone grease and install the Face O-Ring into the flange.
- Place the end cap onto the flange and install 4 of the M3 x 12mm screws as shown in the photo
- Using a 2.5mm allen key tighten the screws down on the end cap

⚠ Follow this same procedure to install the 4 hole end cap on the second flange.

Step 11 — O-Ring Installation



- Lubricate the 2 O-Rings for the diameter of the flange.
 - Install the first o-ring onto the first groove.
 - Install the second o-ring into the second groove
- i** Put the end cap aside until you are ready to install it into the acrylic tube
- !** Keep the o-rings clean and free of dust. Put it into a zip-lock bag if possible