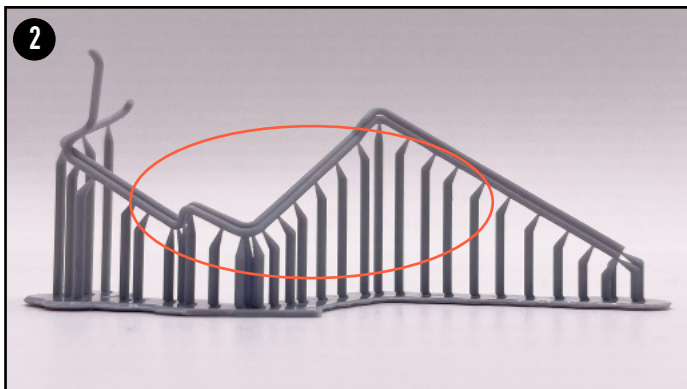
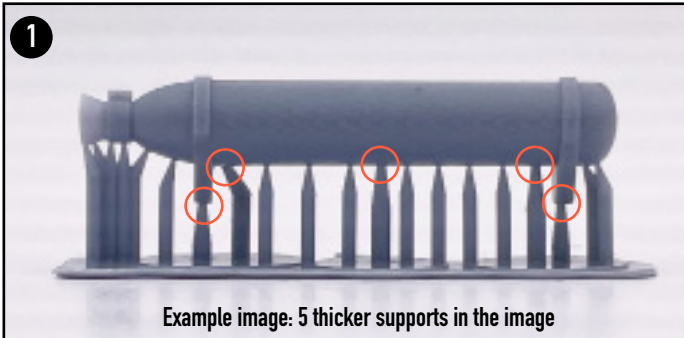


# INFO / TIPS :: REAR TORPEDO ROOM

## A few tips for removing supports from parts:

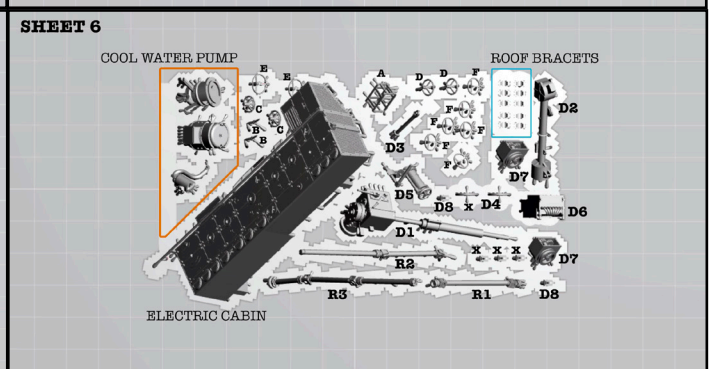
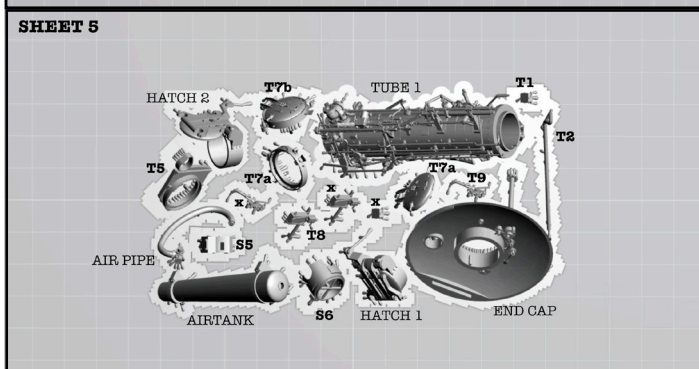
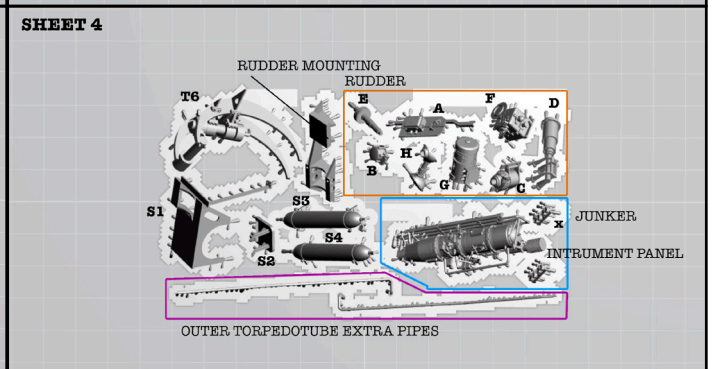
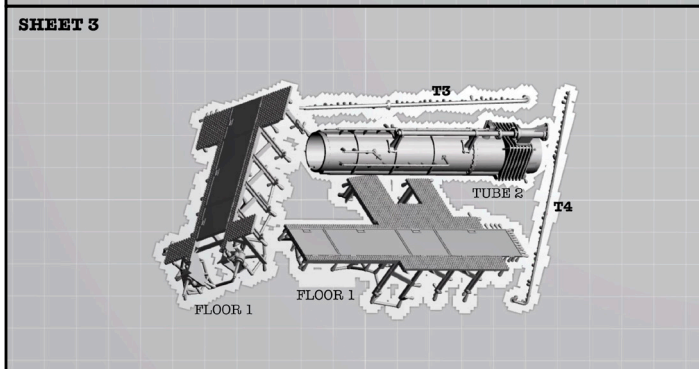
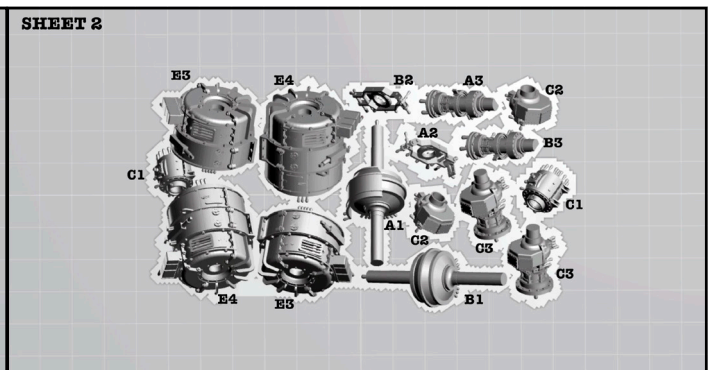
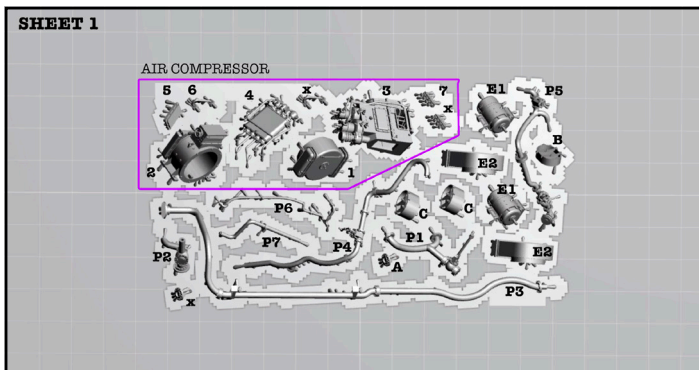
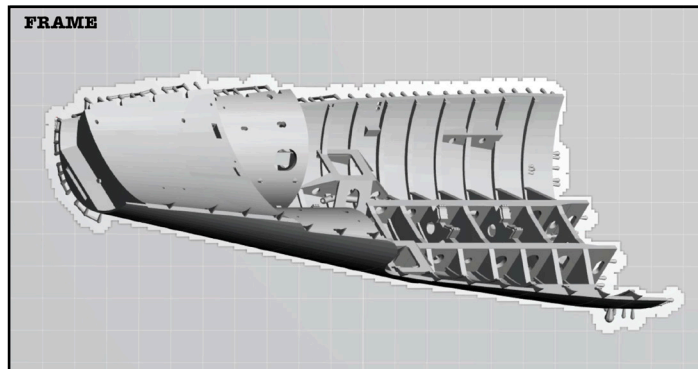
- Use side cutters or a SHARP knife
- When cutting the support, also support it with your finger on the other side
- First remove the parts from each other and then from the supports
- There is two sizes of supports. Remove the thick ones first. The smaller ones may even detach themselves after that. See picture 1
- In the thinnest pipes, I recommended to start removing the supports in the middle and proceed to the ends. But before that the thick ones. See picture 2.
- The set includes a few spare parts



If some parts look different in the instructions than the kit. You just received the updated part. The better one.

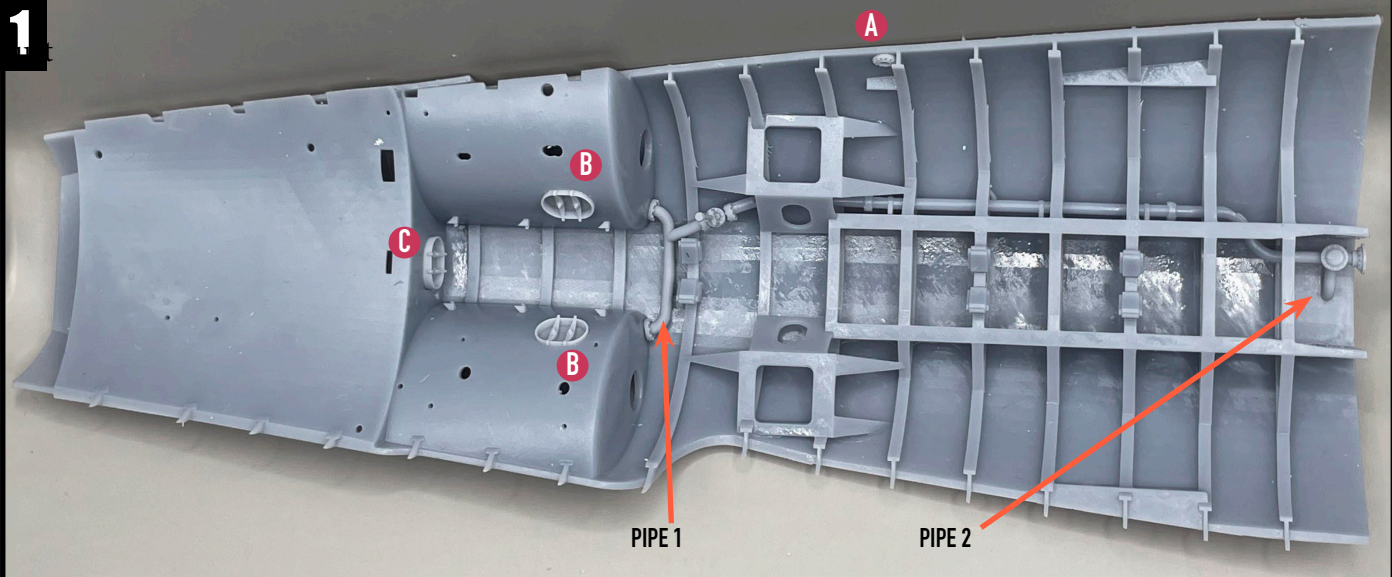
You can use Trumpeters Torpdes if you dont want to buy Underground3Dproject torpedos

# REAR TORPEDO ROOM :: RESIN SHEETS



# INSTRUCTIONS :: REAR TORPEDO ROOM

1



## PIPES & HATCHES

You need parts A - B - C - P1 -P2 on sheet 1.

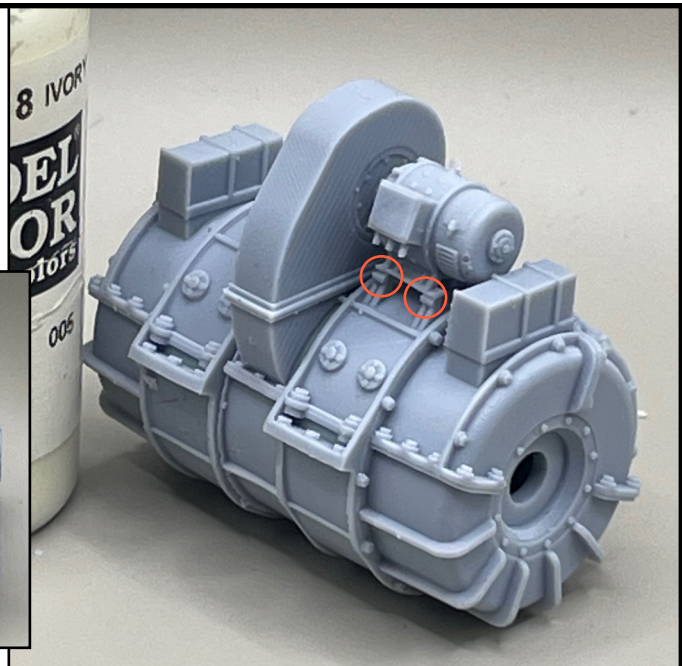
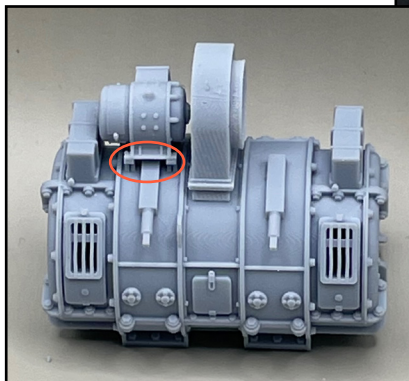
There is also an extra part of part (A) in case part is lost, for example.

## 2 E-MOTORS

Build Both Engines

You will need the E-Motor shells from Sheet 2 (E3 and E4), and the Fan and Compressor (E1 and E2) from Sheet 1.

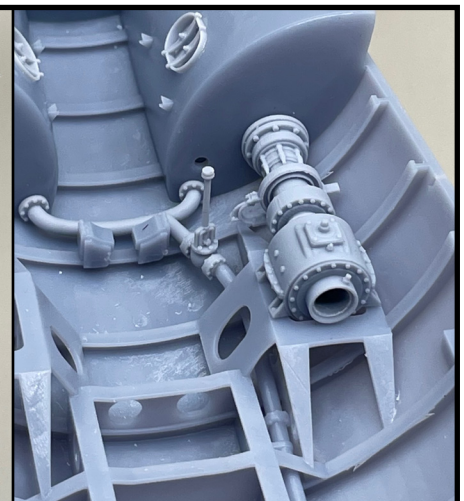
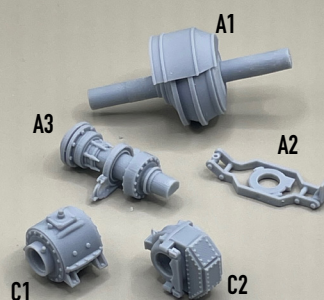
Instal First both sides of E-motors together. Then fan and last compressor. There is a clear place for the compressor on the E-motor body where it is glued, so make sure the fan is glued in the correct direction. See pictures



## 3 MAIN SHAFT

Some of the shaft parts are different, so do not mix them up. The main bearings (C1), as well as the E-motor support bearings (C2), are the same on both sides. In this example, we install the shaft and e-motor on the port side of the frame. So you need parts C1-C2-A1-A2-A3 and find them on sheet 2.

First: Glue the Main Bearing (C1) to the shaft (A3) that goes through the torpedo tank. Glue them to the hull as well. See Picture.

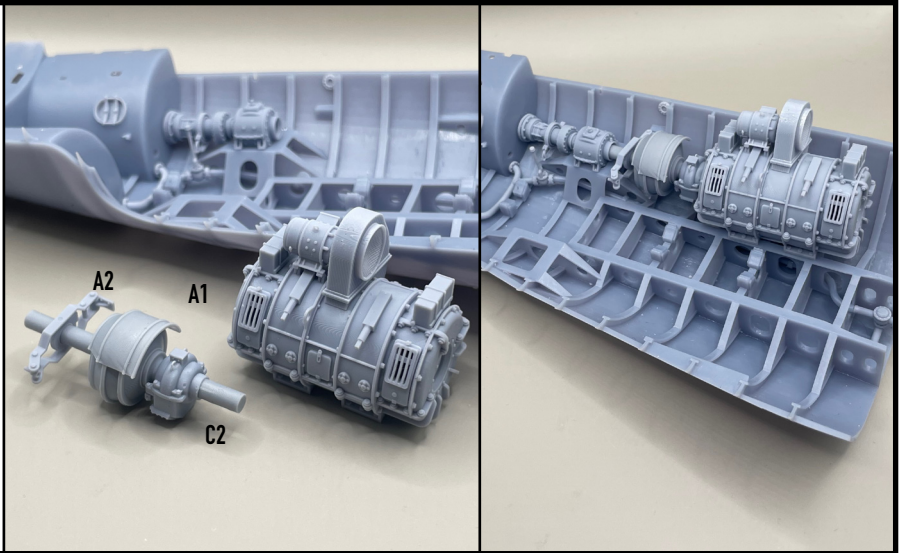


## 4 MAIN SHAFT

1) Glue the Support Bearing (C2) to the Clutch (A1).  
**DO NOT** glue the clutch fork (A2) to the shaft at any point.  
Make sure all parts are facing the same way as shown.

2) Put glue to the E-motor mounts, as well as to the ends of both shafts and install both at the same time. Also make sure that the clutch fork remains in the correct position. You can see the final result in picture 2

You can do the same for the star board side next. Just select parts C1-C2-B1-B2 and B3. In this example, we will install the floor next. The Star Board shaft and e-motor can also be installed after the floor, but it is much more difficult.

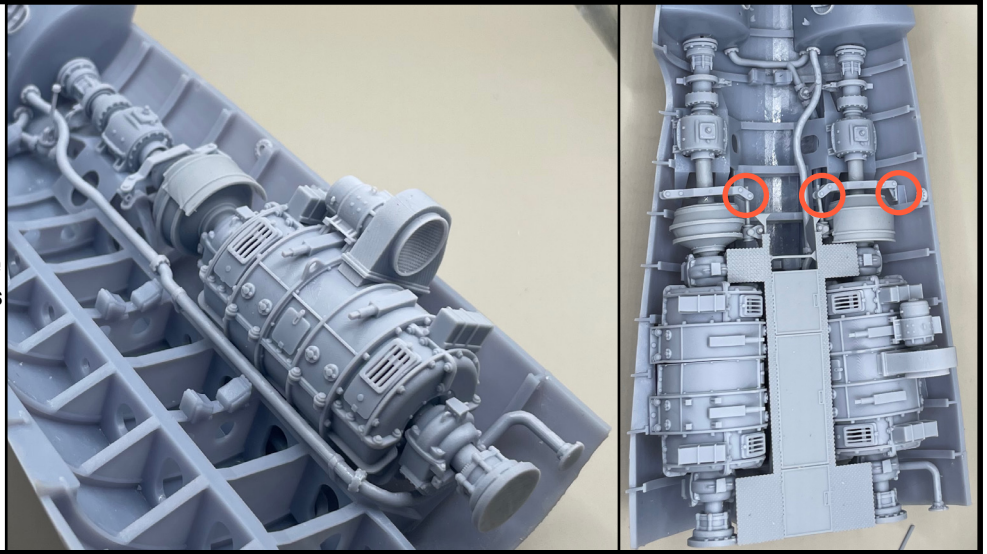


## 5 FLOOR 1

Parts you need: Pipe 3 (P3) from sheet 1. Both shaft (C3) from sheet 2 and floor 1 from sheet 3.

First glue Pipe and both shafts. Then Floor. Once the floor is in place, glue both clutch forks to the floor piece as shown in picture 2. Note the circles in the picture. The port side clutch fork is also glued to the frame.

You can install the torpedo between the E-motors either before or after the floor.

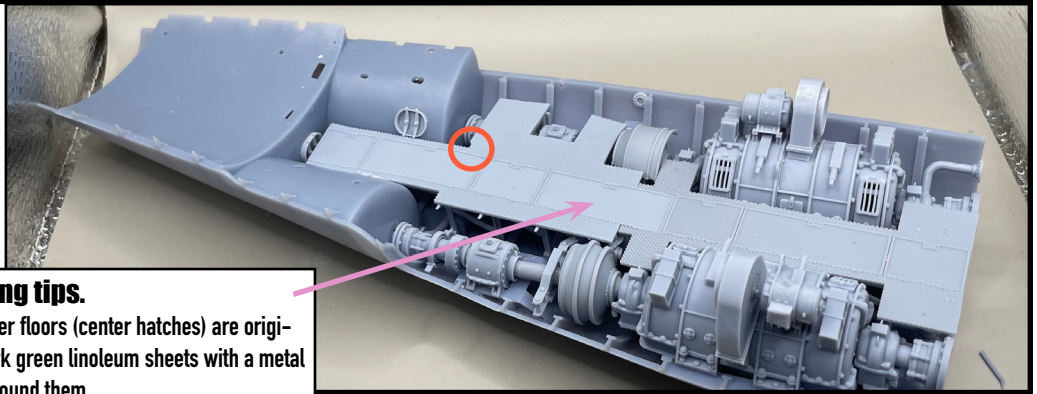


## 5 FLOOR 2

Install the floor as shown. Pipes under the floor may make installation difficult. If the floor does not fit properly, cut off one of the legs of the floor. The problem area is marked with a red circle.

### Painting tips.

The center floors (center hatches) are originally dark green linoleum sheets with a metal frame around them.

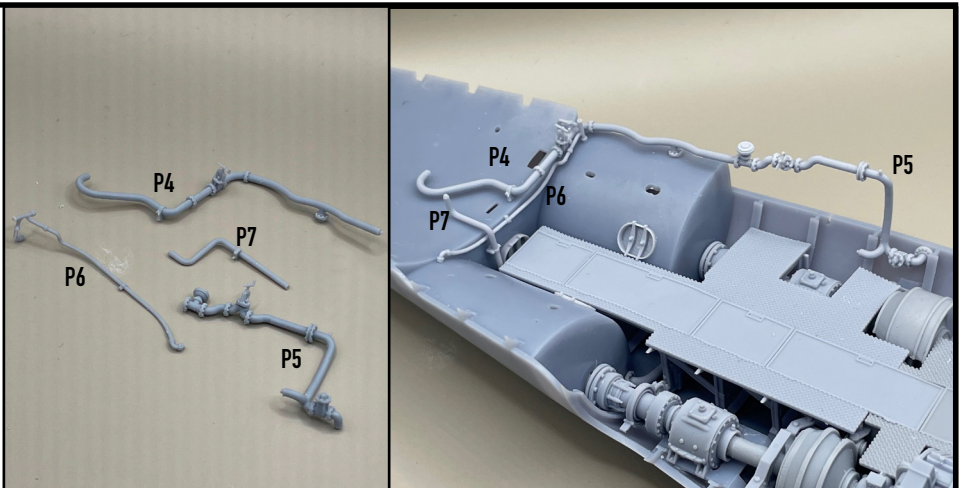


## 6 MORE PIPES

You Need parts P4-P5-P6 and P7 from sheet 1.

1) Install first the torpedo drain pipe towards the water cooling pump (P4) and then the extension piece (P5).

2) Then a thin pipe between the torpedo tanks (P6) and finally (P7) the torpedo drain pipe which leads to the bilge



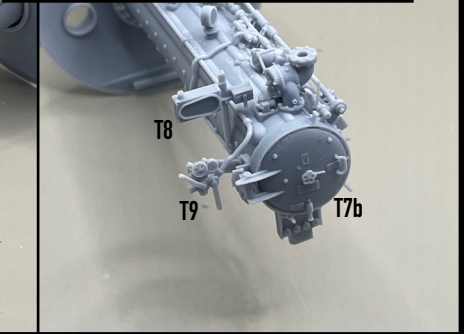
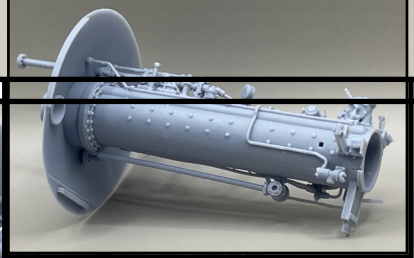
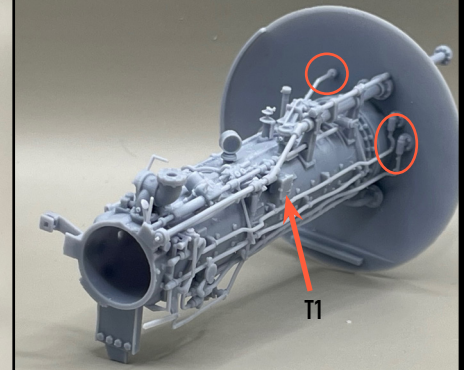
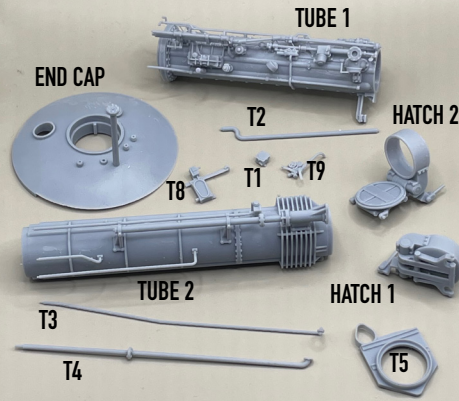
## 7 TORPEDO TUBES

Parts needed: Tube 2 and both pipes (T3) and (T4) from sheet 3. Sheet 4 has two extra pipes outside the torpedo tube. (T3).

Parts needed from Sheet 3: Tube 1 - T1 - T2 - T5 - T8 - T9 - End Cap - Hatch 1 or Hatch 2.

There is also an extra part of part (T1 - T8 and T9)

Glue Torpedo Tube 1 to the end cap, and parts (T1) and (T2) to the torpedo tube. The thinnest pipes (circled) are easy to fold in the right places at the end.

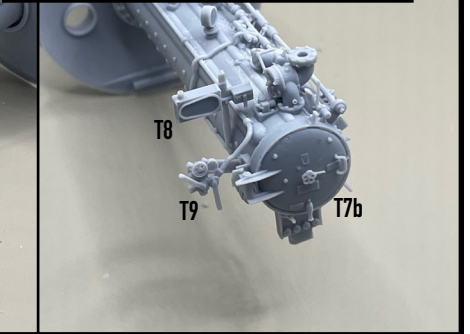
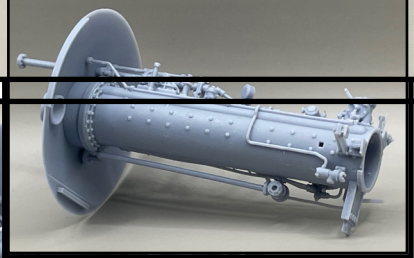
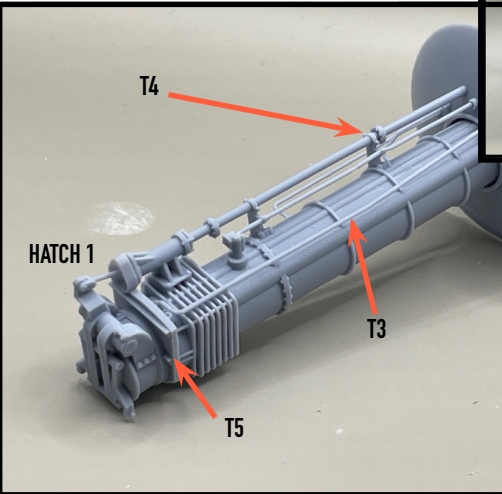


## 8 TORPEDO TUBES

Glue the outer torpedo tube 2 to the end cap. Then part (T5) and the hatch (open or closed). Finally, tubes (T3) and (T4).

The tube (T4) runs below the torpedo tube behind the torpedo tube in the picture.

Inside the torpedo tube: Last Torpedo tube parts (T8) and (T9) and a hatch, either open or closed. (T7a or T7b) The open hatch is in two parts (T7a).



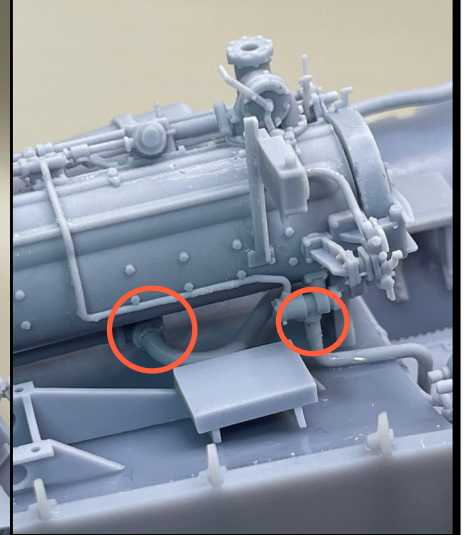
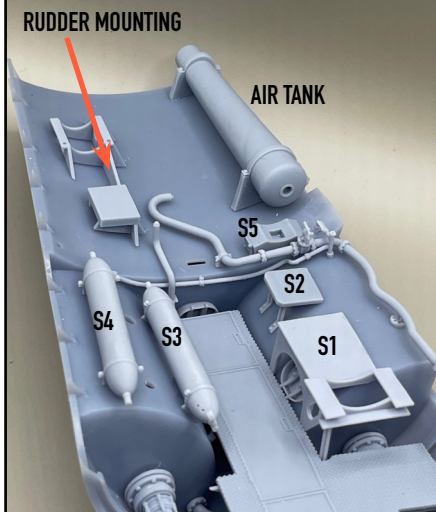
## 9 TRIM TANK

Parts needed: S1 - S2 - S3 and S4 from sheet 4. From sheet 5 Air tank and S5.

In our model example we have also installed the rudder mounting in place. However, do not install this yet. The rudder motor is easier to build to mounting in separately.

You can glue the parts in any order you want...

When the trim tank is ready you can glue the torpedo tubes to the hull. See picture two for how to attach the tubes.

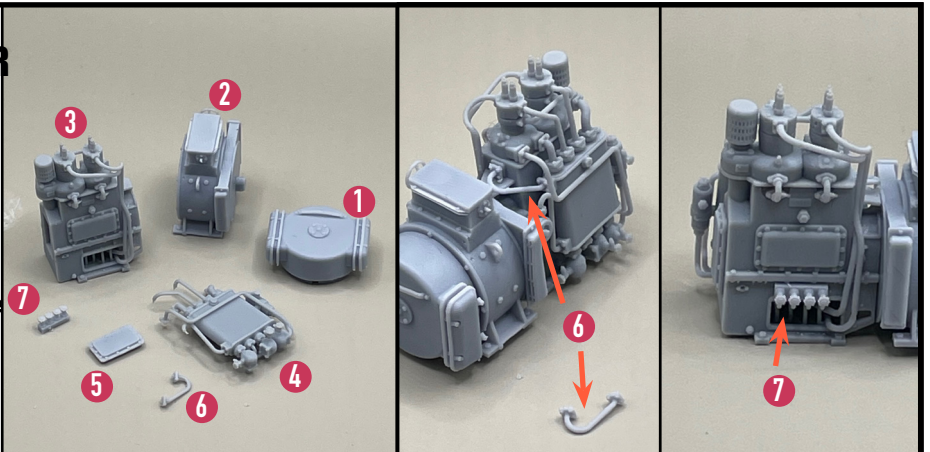


## 10 AIR COMPRESSOR / JUNKER

You will need the air compressor parts from sheet 1. There are also two extra parts included.

Assemble the parts together in numerical order.

You can find the Junkers compressor on sheet 4. It comes in two parts. You just attach the instrument panel (see instruction part 11). After that you can glue both compressors in place. The Junkers between the two smaller air tanks and the other compressor on its own bracket on top of the torpedo tank on the opposite side.



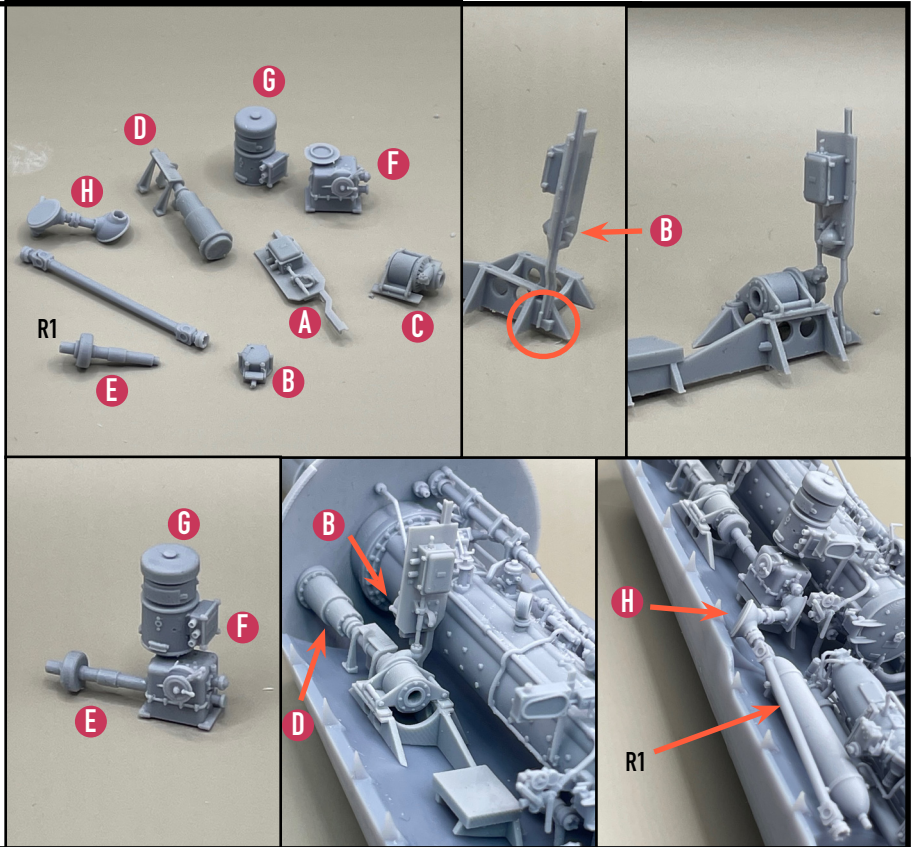
# 11 RUDDER ENGINE

You will need the Rudder parts from sheet 4 and Rudder Mounting from sheet 4 and part R1 from sheet 6.

Glue part (A) to the mounting as shown in the picture and part (B) to the place indicated by the arrow. After this you can glue part (C). Next we will build the rudder motor.

Glue parts (E) - (F) - (G) together.

Now glue the rudder mounting to the trim tank cover at the same time as part (D). After this, the newly completed motor is in place, as well as parts (H) and R1



# 11 REST OF FRAME

Let's collect the remaining parts that will still be included in the frame.

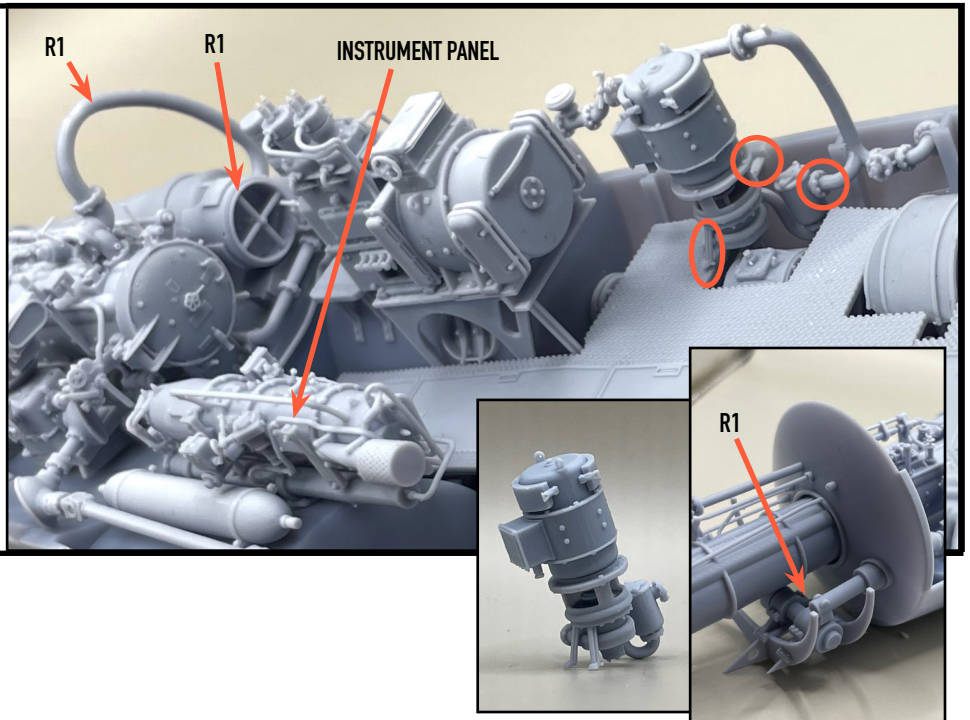
- Sheet 6: Cooling water pump parts
- Sheet 5: Air pipe and (S5)
- Sheet 4: T6

1) Clue first air pipe and then part (S5)

2) Build cooling water pump and install it. Glue where the red circles are

3) and last part T6

(X) The Junkers instrument panel is glued here



## 12 ROOF

You will need parts D1–D8 and Roof Brackets. There are also extra parts marked with an X.

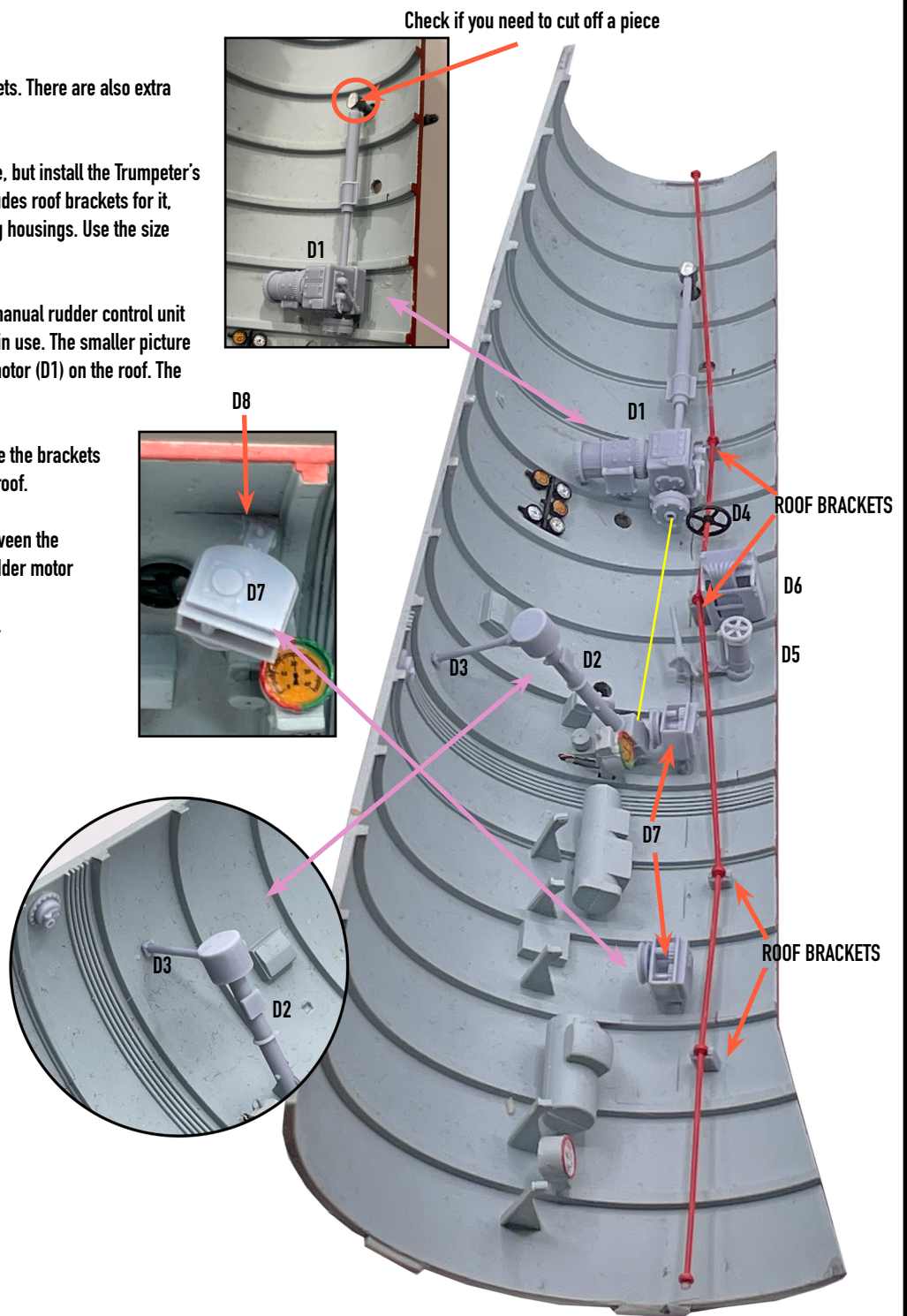
You can build the roof in any order you like, but install the Trumpeter's own remote control shaft last. The kit includes roof brackets for it, which fit into the Trumpeter's shaft bearing housings. Use the size you want

Use Trumpeter's own valve wheel for the manual rudder control unit (D2). (D3) is a support when the control is in use. The smaller picture shows the correct location of the rudder motor (D1) on the roof. The shaft is in a straight line towards the bow.

One of the smallest parts in the set (D8) are the brackets between for the torpedo winches (D7) and roof.

if you still want, you can make a shaft between the manual rudder control and the electric rudder motor (yellow line)

Unfortunately this set does not include it...



## 13 ELECTRIC CABIN

Parts found on Sheet 6: Electric cabin – Battery box (A) and valves (B–F). There are also including extra valves.

This instruction contains a slightly older version of the electric cabin, which is missing the railing. This does not affect the build this object.

Just glue all the parts to the cabin before gluing the cabin to the roof. The picture shows how it fits to the roof.

There are two parts left in the set. (R2 and R3) on sheet 6. Horizontal rudder Rudder shaft assembly to the bulkhead. You can install it when the entire aft torpedo section is assembled. (R2) attaches to (R1) shaft and (R3) to (R2) and to the bulkhead.

