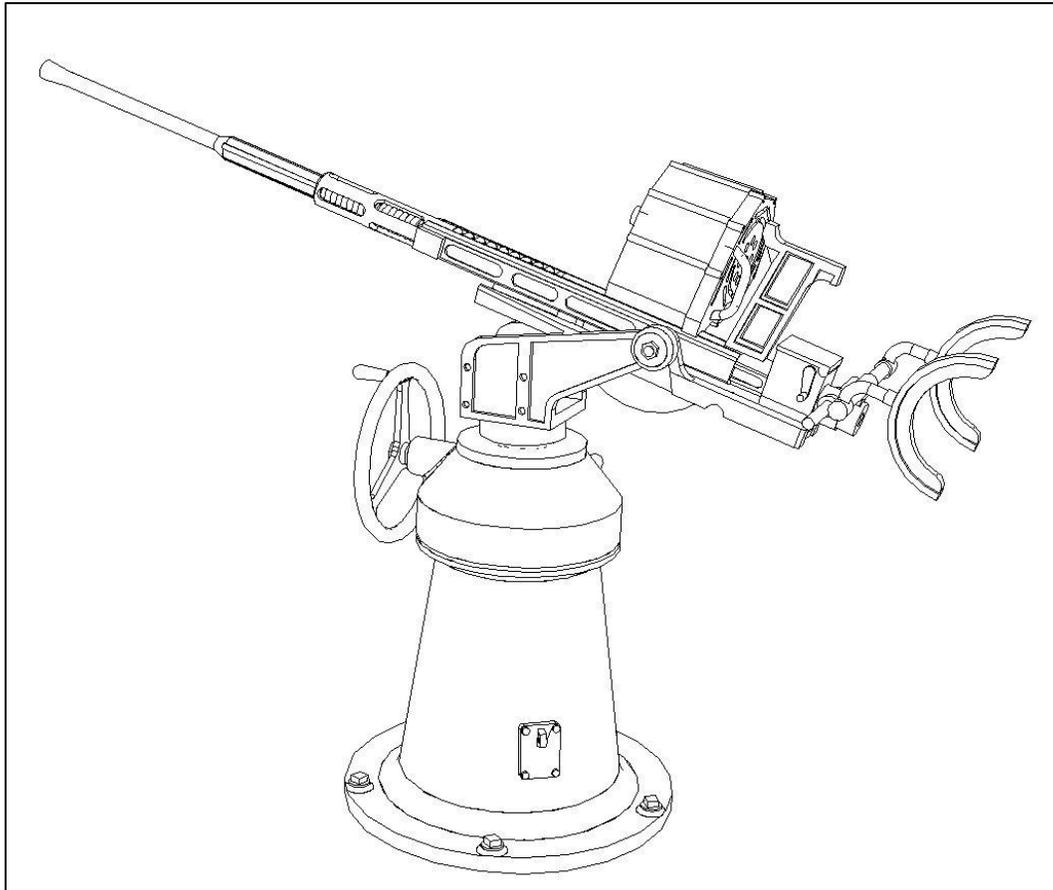


MATTHEWS MODEL MARINE
20mm OERLIKON GUN KIT
1:20 & 1:24 Scale Versions



Description

The kit contains parts to build one 20mm Oerlikon gun and mount, and is intended for use on PT boats in 1:20 and 1:24 scales. The mount is the Mk.4 pedestal as used on early US PT boats and many other applications.

The kit parts are 3D printed in a UV-cured acrylic plastic.

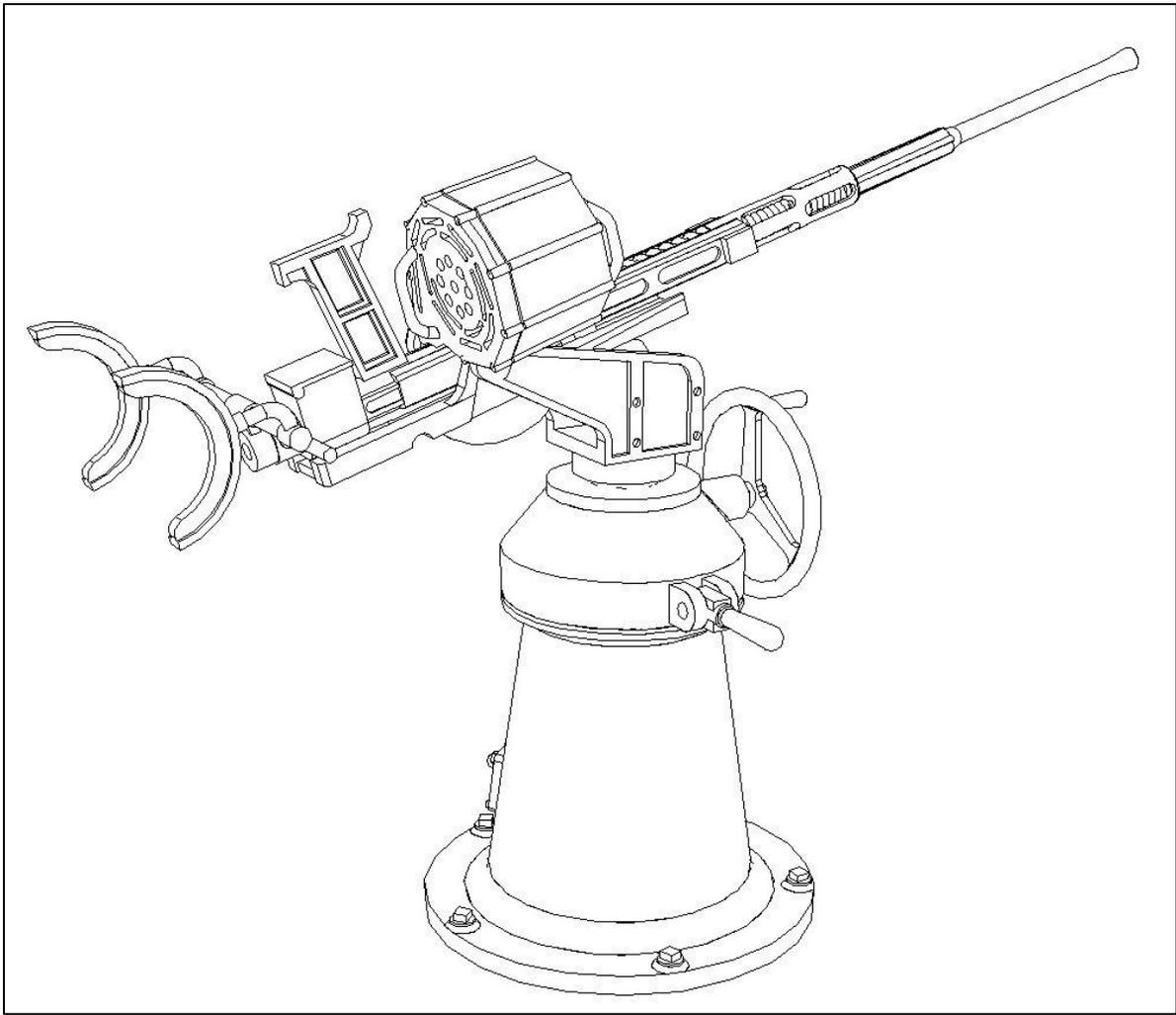
Not included:

- Gun shield: These were usually not installed on PTs.
- Gunsights: Also usually not used on the PTs. You can remove the gunsight support. If you want to add sights of your own, attach your own sighting pin and ring grid to the plastic support (refer to photos online for info).
- Canvas bag under the cradle for catching spent shells.
- Gunner's support belts.

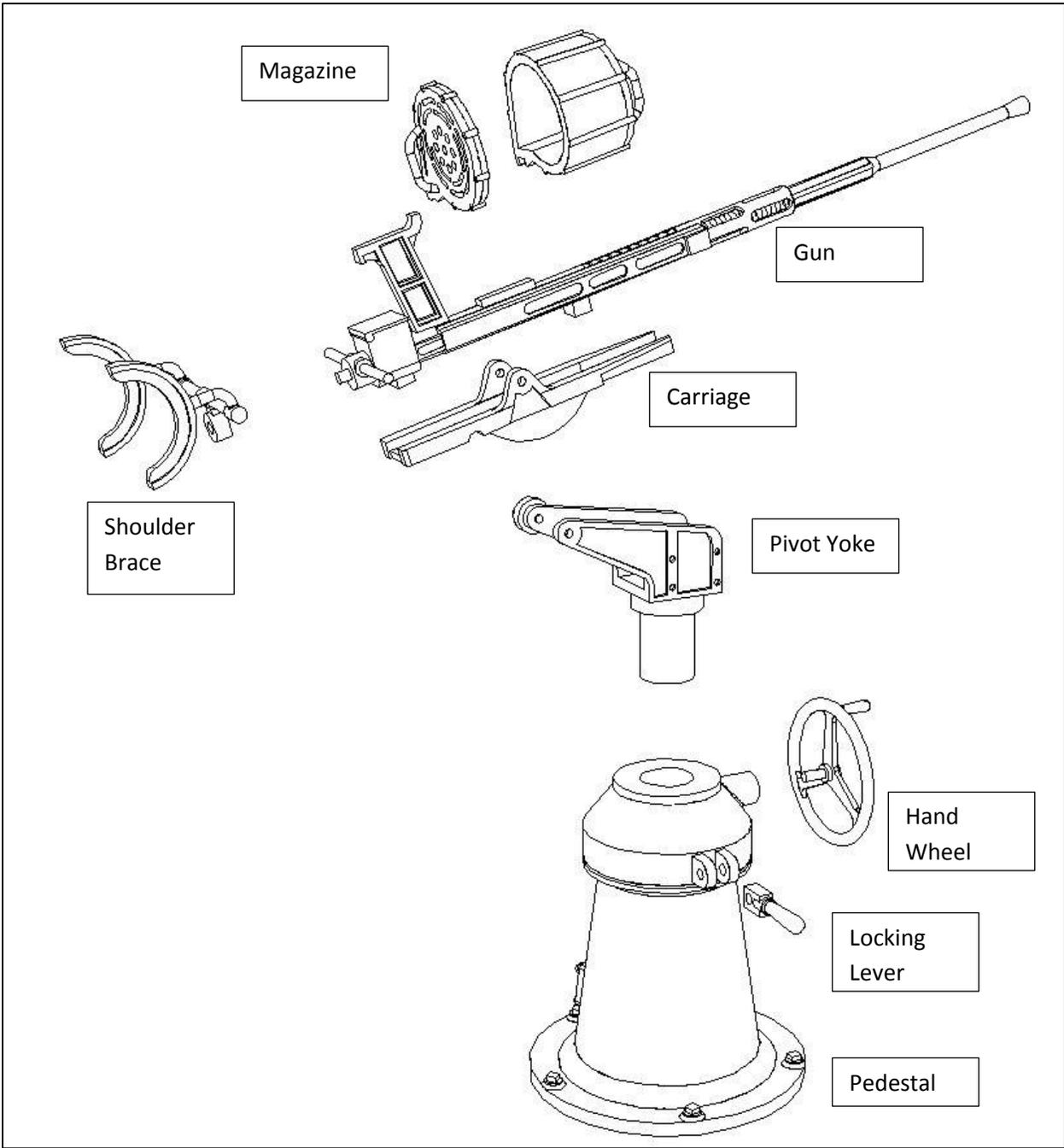
Assembly Notes

Refer to the images for assembly.

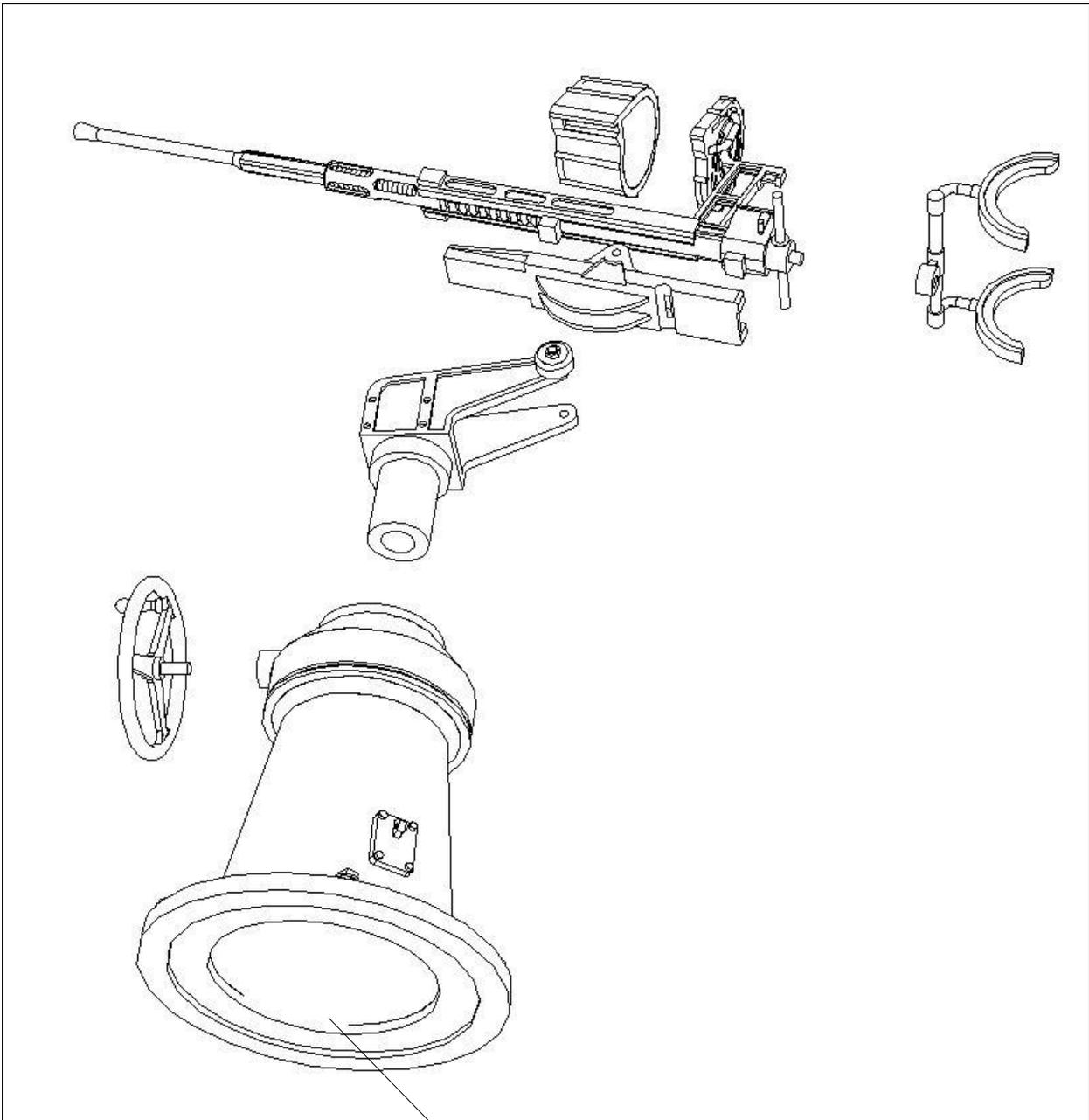
1. Removal of small parts from sprue: CRITICAL! This plastic is brittle and may shatter if cut with sprue nippers. Please use a very fine saw blade to separate parts from the sprue, and then file or sand as required.
2. Surface preparation: CRITICAL- parts must be cleaned prior to assembly.
This acrylic plastic is printed with a soft waxy support material all around. The wax is greasy and can be removed with a number of cleaners—anything from water based cleaners to lacquer thinner will do the job. I prefer a mix of warm water and Simple Green in a small ultrasonic cleaner.
After rinsing and drying, a chalky surface will develop on the parts. This can left in place, but I prefer to carefully sand or scrape it off.
3. Glues: CA (cyano-acrylate) or epoxy is recommended. CA accelerator may be required. Solvent cements for styrene kits will not work.
4. Mounting to model:
 - a. A shallow spud (1 inch diameter for 1:20, 0.83 inch for 1:24 scale) can be attached to the deck or mounting pad, and the pedestal can be glued to this.
 - b. Or, remove the five plastic screw heads, and drill the locations for small screws. 00-90 miniature screws will be about right.
5. Hand wheel: Glue to pedestal.
6. Locking lever: Glue to pedestal, and/or use a piece of wire through the holes.
7. Pivot yoke: May require some fettling to fit. Glue in place or leave loose for posing.
If left loose for an R/C model, add something to the post to prevent it from leaving the pedestal.
8. Gun carriage: Left side snaps onto the yoke; fix the right side with a pin. The hole is about 0.020" diameter, but can be drilled out as required.
9. Gun: The gun has two pads underneath; glue these to the carriage. Rear of gun's rectangular trigger housing is even with rear of carriage.
Parts should be painted first, with paint scraped off of the mounting points.
10. Shoulder brace: Glue to the button on rear of the gun.
11. Magazine: Assemble halves together, and attach to tab on top of gun. Note the correct orientation.
12. Painting:
This UV-cured acrylic plastic may inhibit the curing of oil based enamels (including primer). I recommend only using water based hobby acrylics on this plastic.
The gun and shoulder brace are flat black. Lightening the black may better represent typical weathering and help to highlight gun details. The mount and cradle are painted in ship's color.



RH view



Exploded View



Inside diameter for mounting spud:
1:20— 1"
1:24— 0.83"