

PBR MK 2 UPGRADE

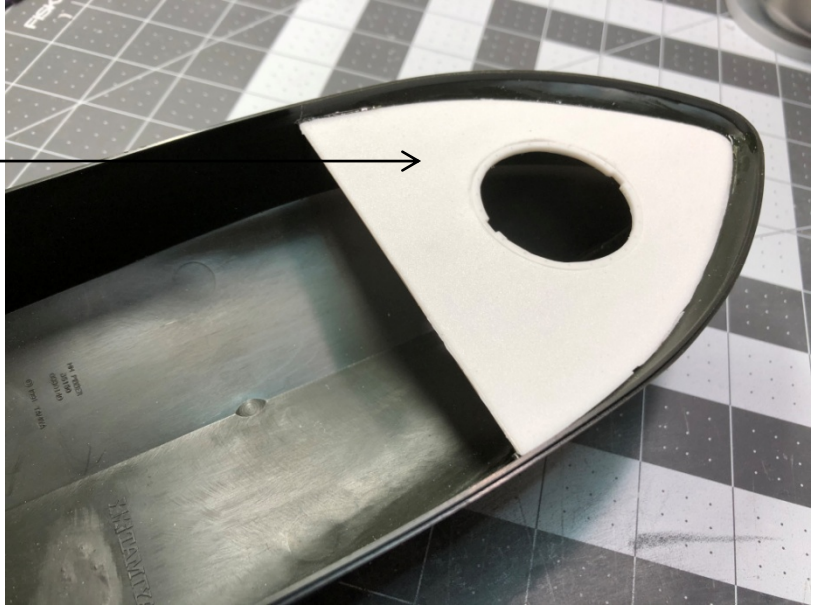
INSTRUCTIONS

Kit contents

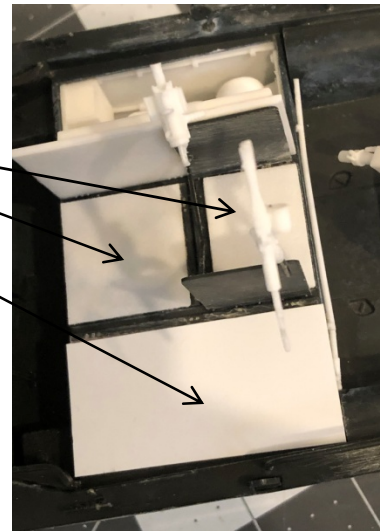
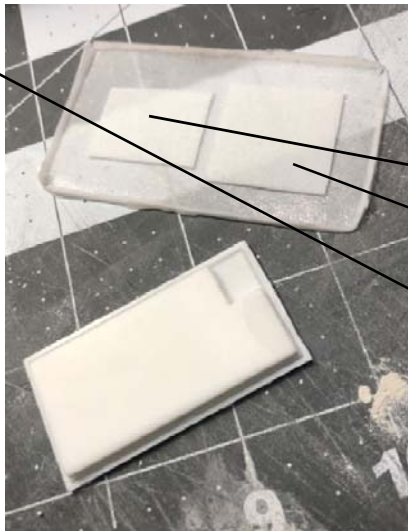
- Detroit 6V53 Marine Engine and compartment
- Apocalypse Now Yater Spoon 9'6 Surfboard with decals
- Fiberglass stern gun mount cover
- Two water jet reverse gate inspection plates & cables
- Searchlight cover & handle
- Twin M-60 Machine Gun Mount
- Two Anti-Barnacle zinc anodes
- Lowered Navigation light mast with extra details
- Radar mast Machine Gun Mount for M-60 Machine Gun
- MK-4 Mod 0 Naval Mortar
- Piggy-back gun mounts for the MK-4 Mod 0 Mortar
- Various M-60 Machine Gun versions
- Three .50 Cal Machine Gun Barrels w/o Flash Hiders
- Rope Hook
- MK-56 gun sights
- Water ski set
- Decal sheet
- Helm details including a larger helmet rack, steering wheel , and four throttle cables.
- Two antennas
- Improved MK-18 Grenade Launcher with selector switch
- Improved Radar Dome
- Non-slip deck sheets
- Engine Cover with soundproofing

Assembly Instructions.

- Add the new non-slip forward deck that replaces part A36 of the Tamiya kit



- Add the non-slip parts to the engine compartment and grenade locker hatch.



- Add the two anti-barnacle zinc anodes and two Reverse Gate cables to the following locations on the stern.

- Paint the anodes zinc or silver and the cables are red.

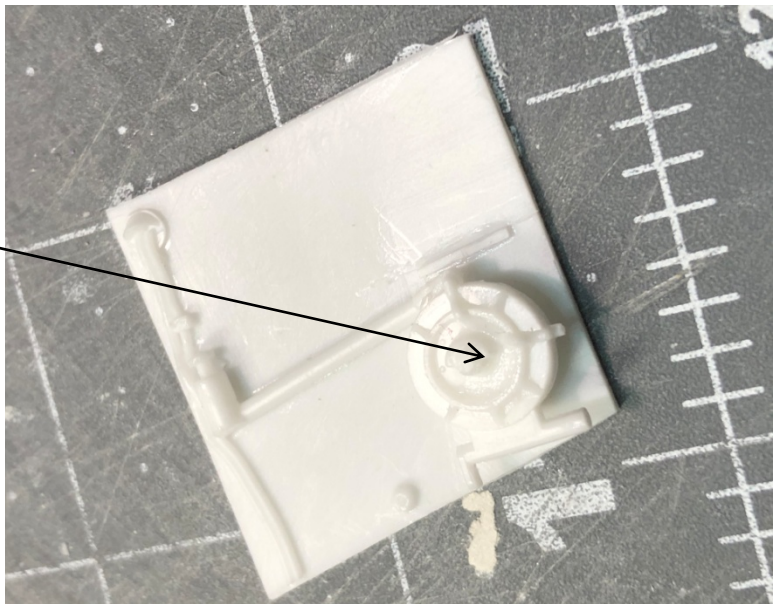


Assembly Instructions.

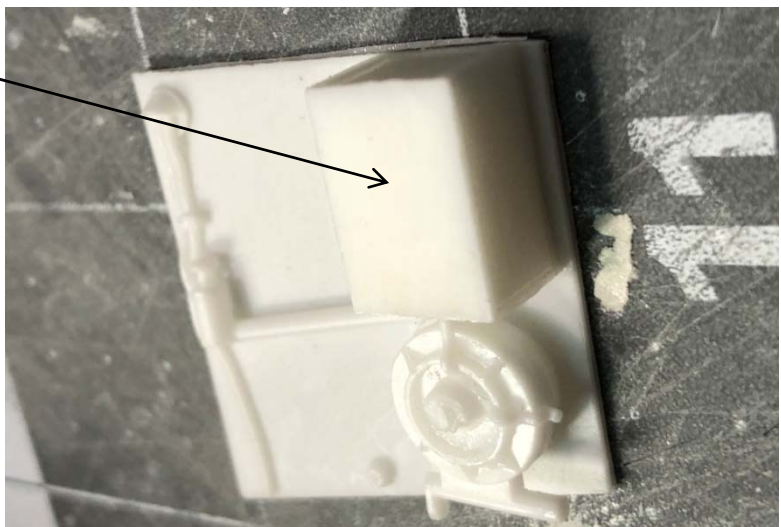
- Parts required for the engine compartment.



- Add the bilge pump to the forward engine compartment wall as shown here. Glue is not necessary as the part will just slip on.



- Glue the air intake to the forward engine compartment wall just above the bilge pump.



Assembly Instructions.

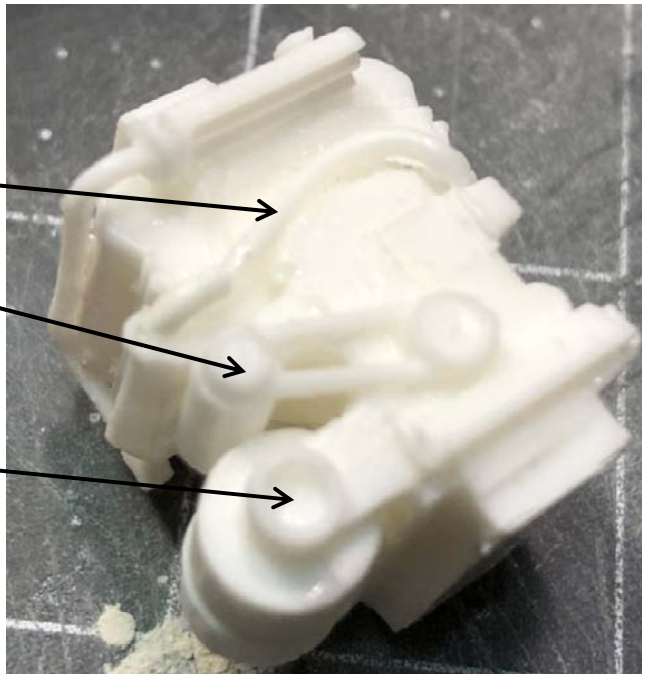
- Parts required to assemble the engine.



- Glue this pipe on the back of the engine.

- Glue this pulley cable assembly to the back of the engine.

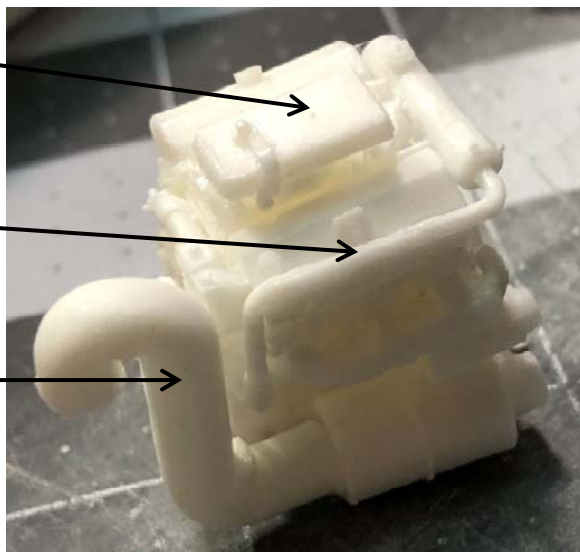
- Add the large exhaust cylinder to the side of the engine.



- Glue the turbo charge intake to the top of the engine.

- glue this pipe to the heat exchanger.

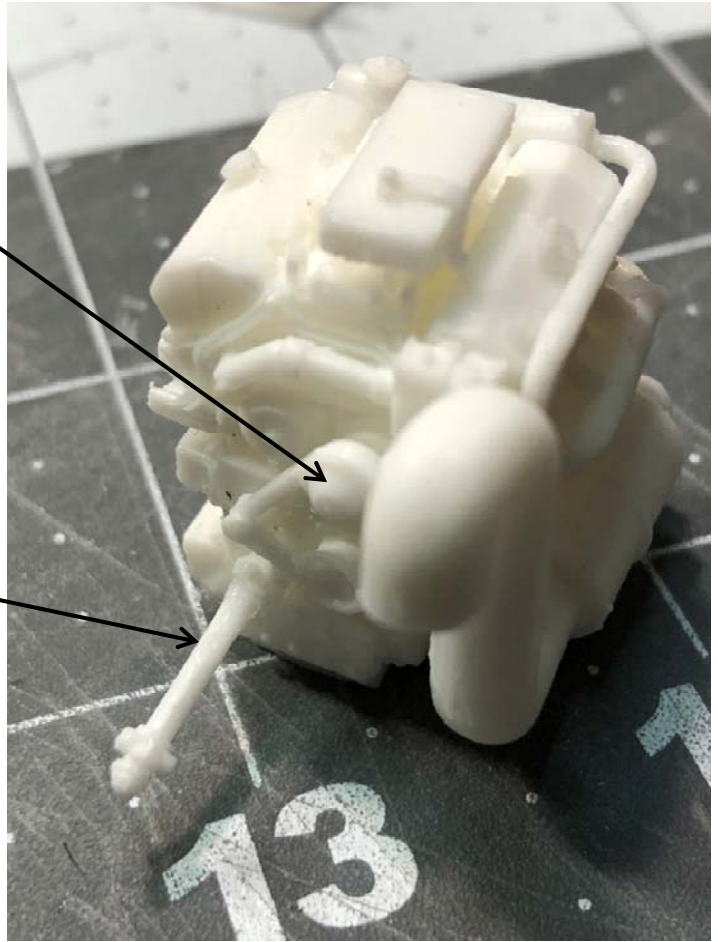
- Glue the large exhaust pipe to the front of the exhaust cylinder.



Assembly Instructions.

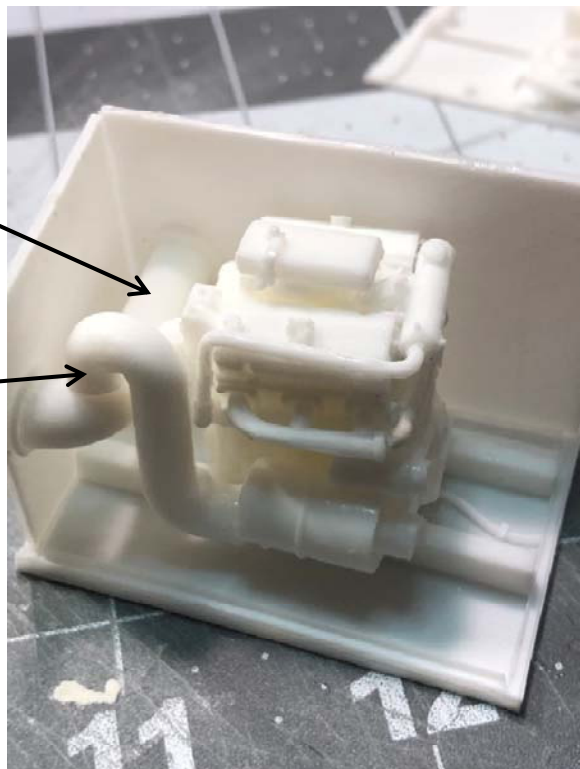
- Glue the front pulley system with the oil filter attachment to the front of the engine.

- Glue the long drive shaft here.



- Assemble the side and back engine compartment by gluing the large exhaust pipe between the two walls. The engine will just sit in place on the lower stringers as shown.

- This large vertical exhaust pipe just sits on top of the horizontal pipe.



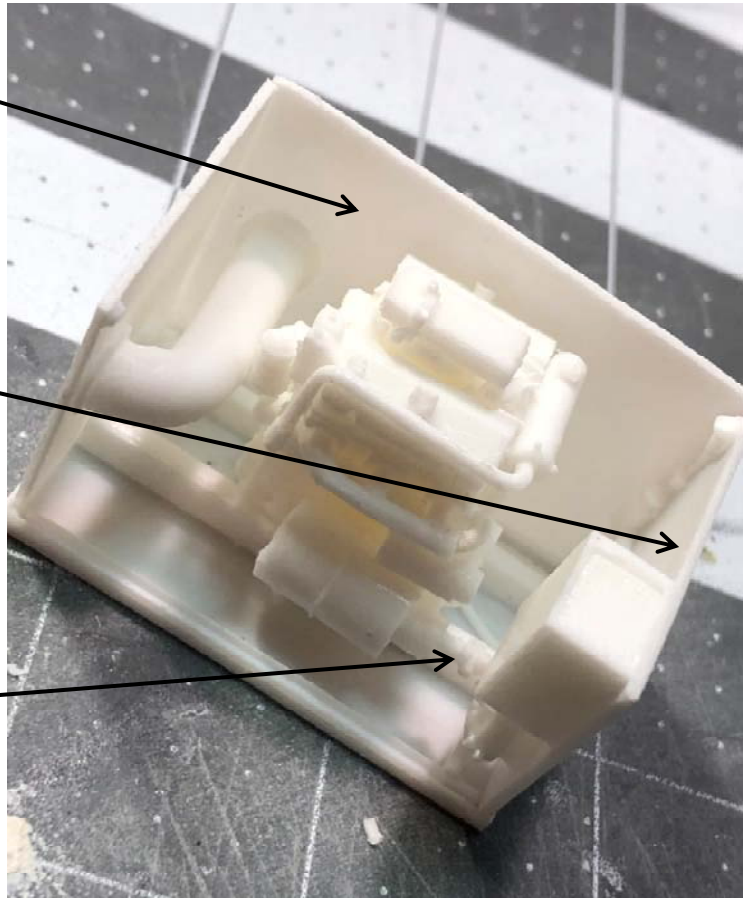
Assembly Instructions.

- Paint this wall black.

*Note. The other walls and engine compartment bottom can be painted light gray.

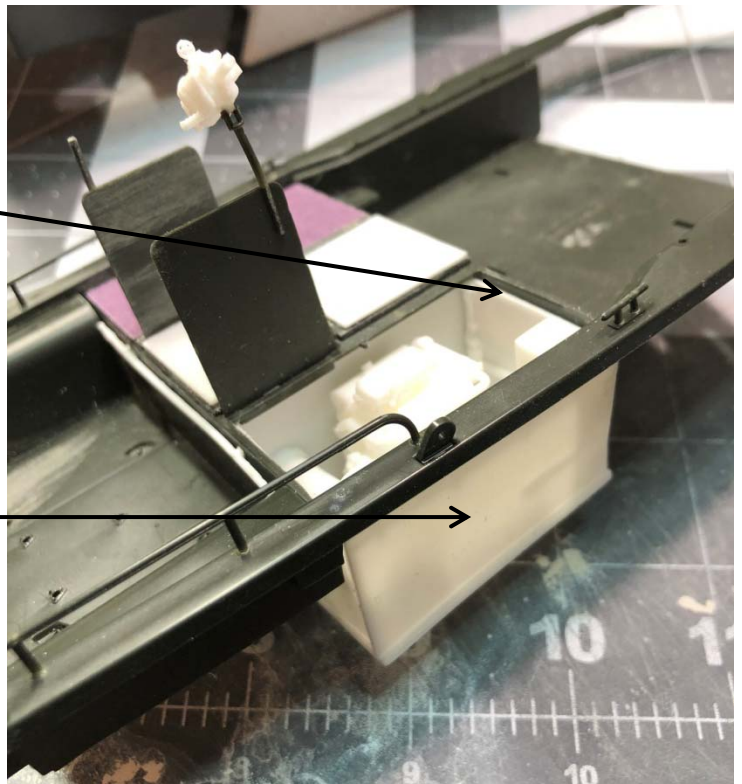
- Add the front wall with air intake and bilge pump attached.

- Glue the small drive shaft to the rear of the engine as shown. This shaft attaches to the bilge pump.



*Note. Some trimming may be necessary all the way around the top of the engine compartment walls to ensure proper fit. Into the hull. Test fit the assembled walls before gluing in this step.

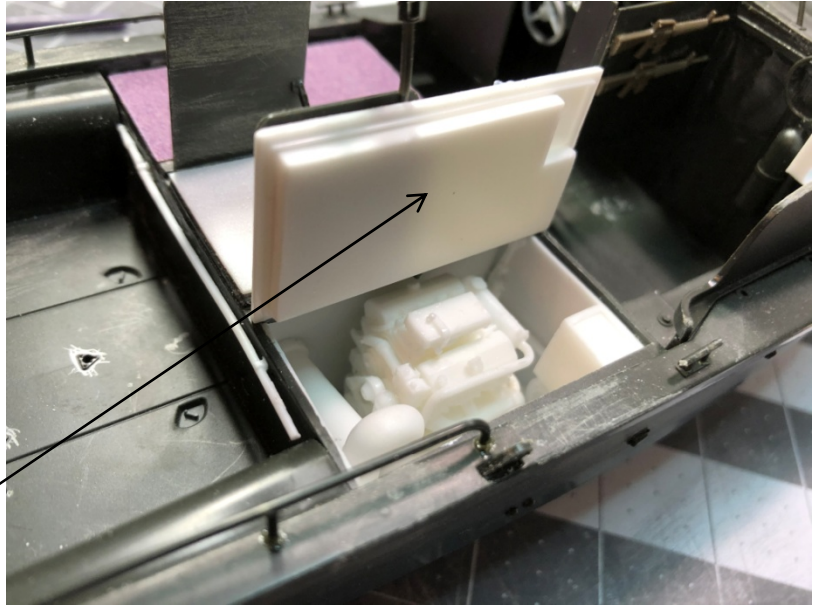
- Add the last wall to the engine compartment and position as shown.



Assembly Instructions.

- The engine is painted Alpine Green. An exact match is Duplicolor DE1618 Detroit Diesel Alpine Green spray paint available at your local hardware store. If you want to use a model paint, Tru-color Vermont Green Airbrush finish (TCP104) is a close match.

- The soundproofing on the cover was painted light gray.

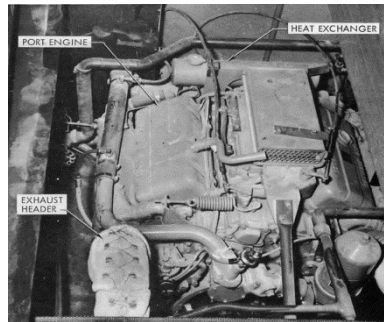


Engine Reference Photos

- Go further and super detail your engine using these pics!



- The Exhaust Headers and pipes were aluminum color or surrounded by an off-white/cream color heat wrap.

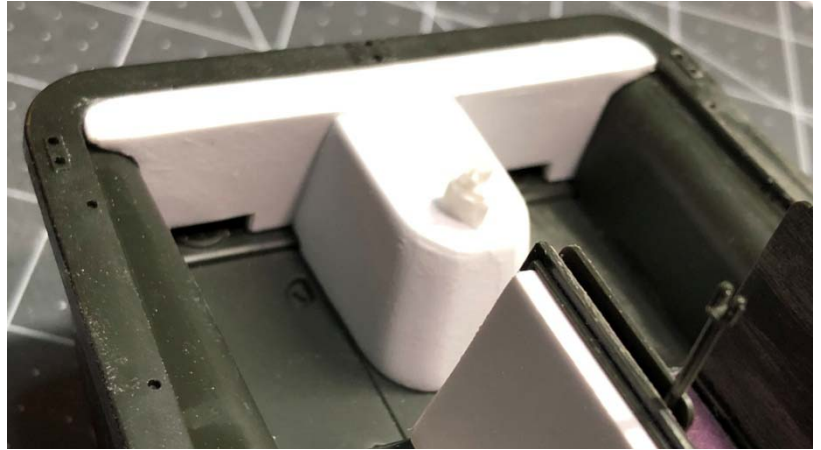


- Firewalls surrounding the engine compartment were steel color.

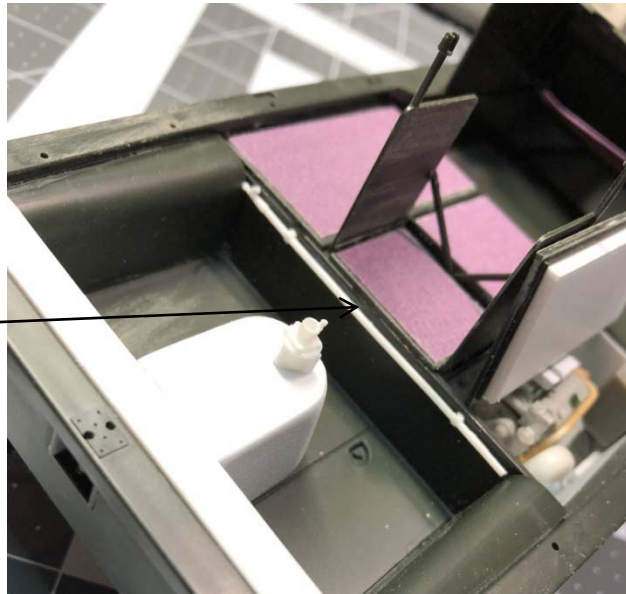


Assembly Instructions.

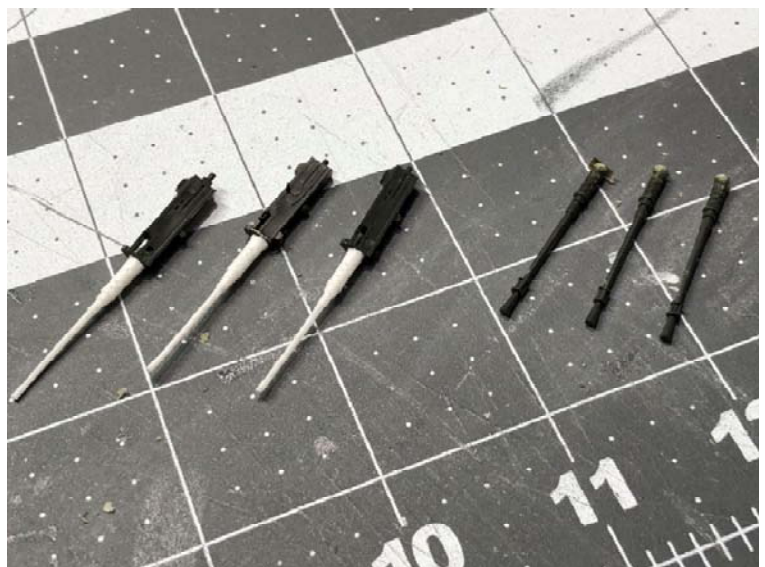
- Install the late war stern Mark 26 Machine Gun tripod cover. This cover was made of fiberglass and filled with buoyant foam. It was made to keep the stern gunner from accidentally firing on the boat by limiting his movement.



- Install the rope hook in this position on the back of the engine compartment.



- Remove the three .50 Cal gun barrels supplied in the kit and replace them with barrels that do not have flash suppressors. This is completely optional if you want to give your boat a different look.



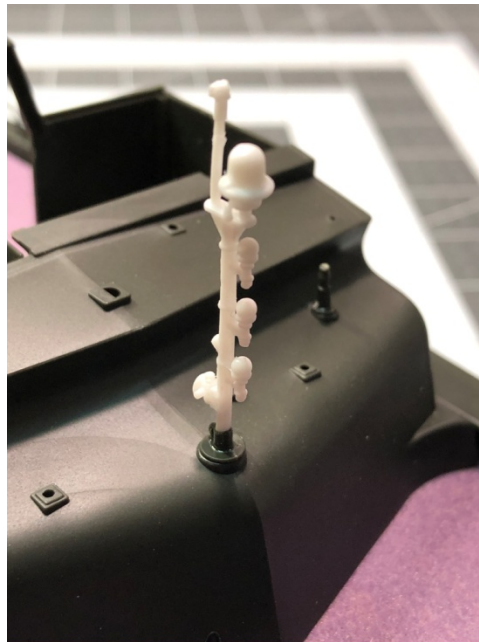
Assembly Instructions.

- Install the following optional accessories on the helm.

- Steering Wheel
- 4 each throttle pulls
- Larger Helmet Bin

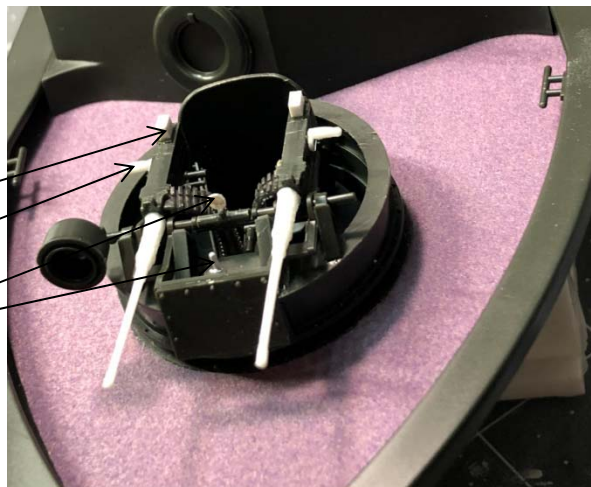


- Install the lowered light mast.



- Install the following accessories on your Mark 56 Gun Tub.

- Electric Solenoids
- Charging handles
- two gun site parts

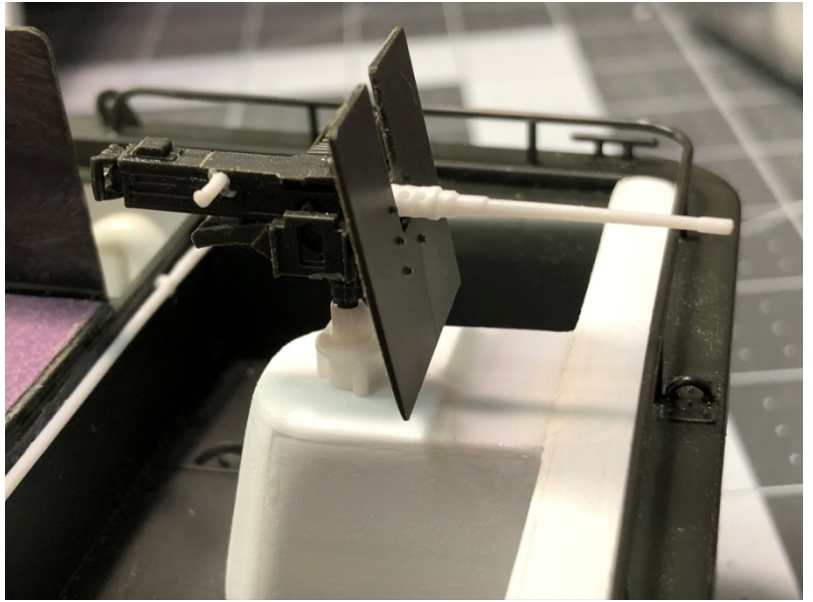


*Note. Solenoids were painted aluminum.

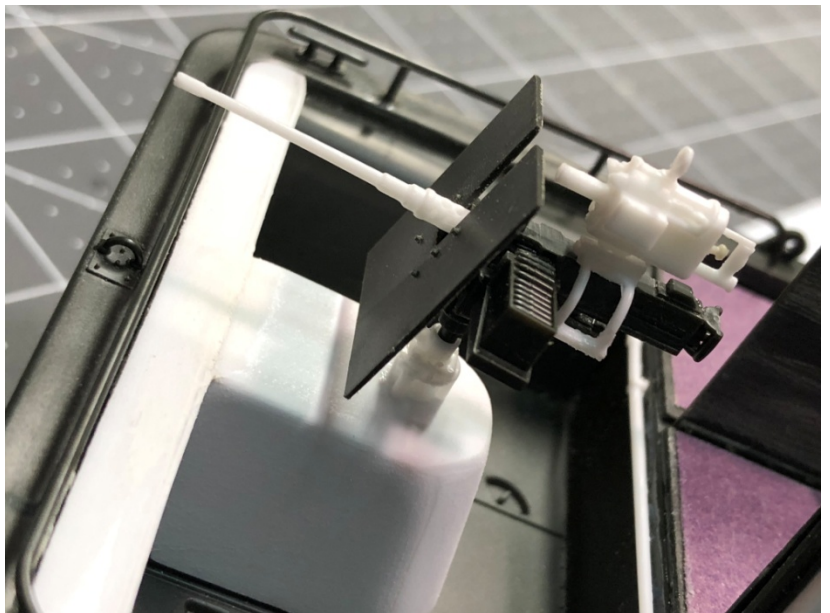
Assembly Instructions.

Stern Gun Mount Options

1. Regular .50 cal MG with new charging handle and barrel with or without flash suppressor (without shown here)



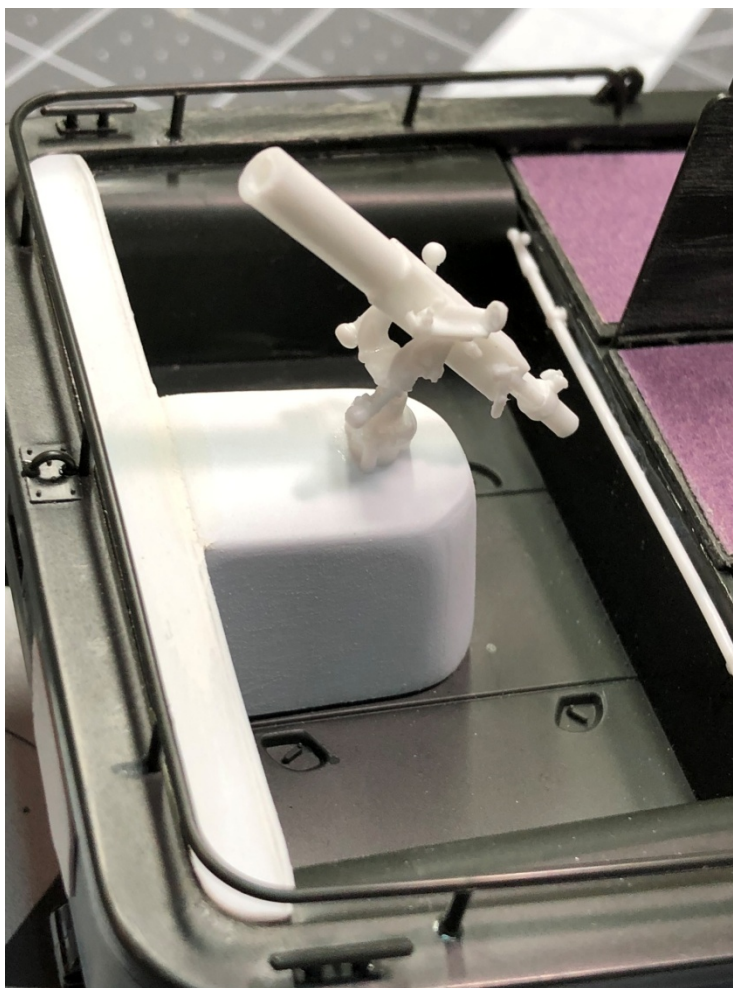
2. .50 Cal with over/under mounted Mark 18 Grenade launcher.



Assembly Instructions.

Stern Gun Mount Options

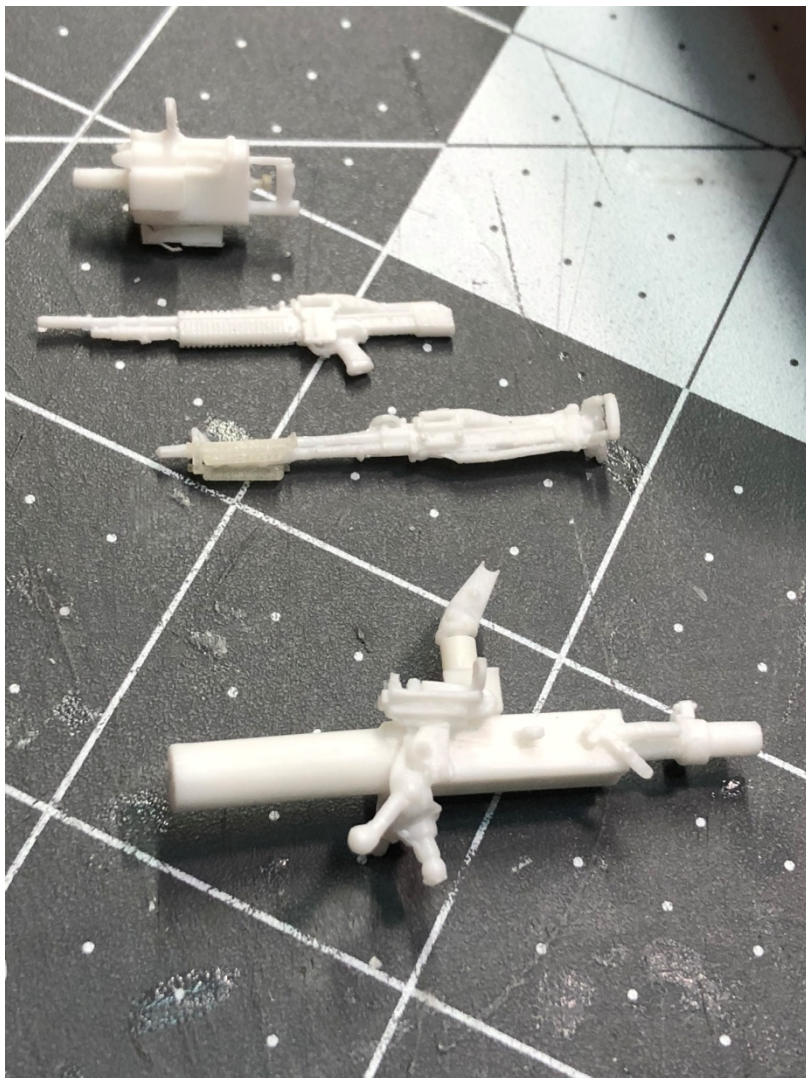
3. Mark 4 Mod 0 Naval
Mortar.



Assembly Instructions.

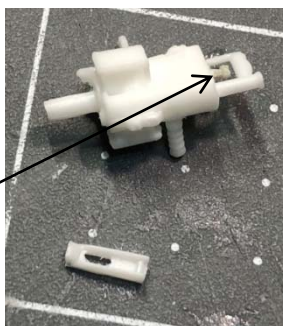
Stern Gun Mount Options

4. Mark 4 Mod 0 Naval Mortar with over/under weapon configurations.



4.a. Mark 4 Mod 0 with Mark 18 GL.

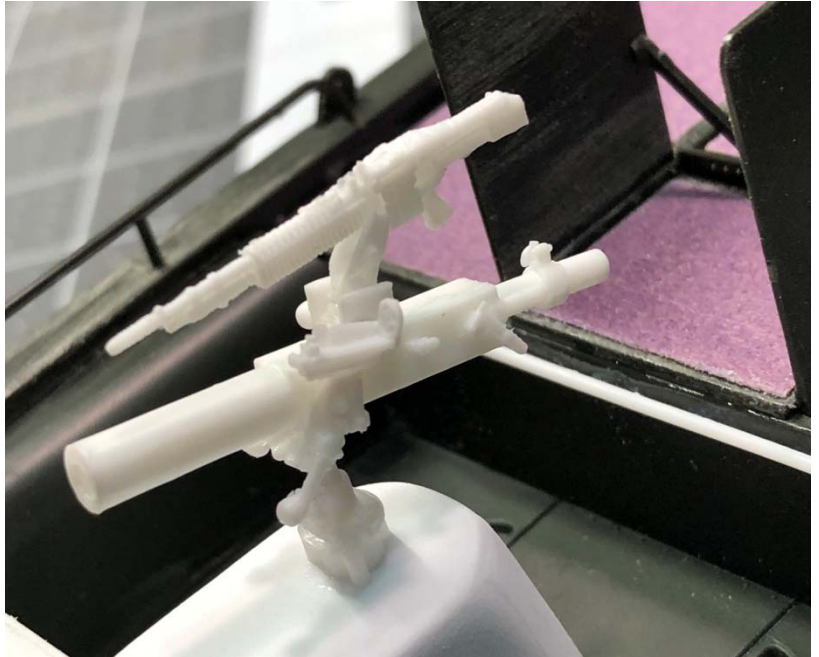
*Note location of selector switch.



Assembly Instructions.

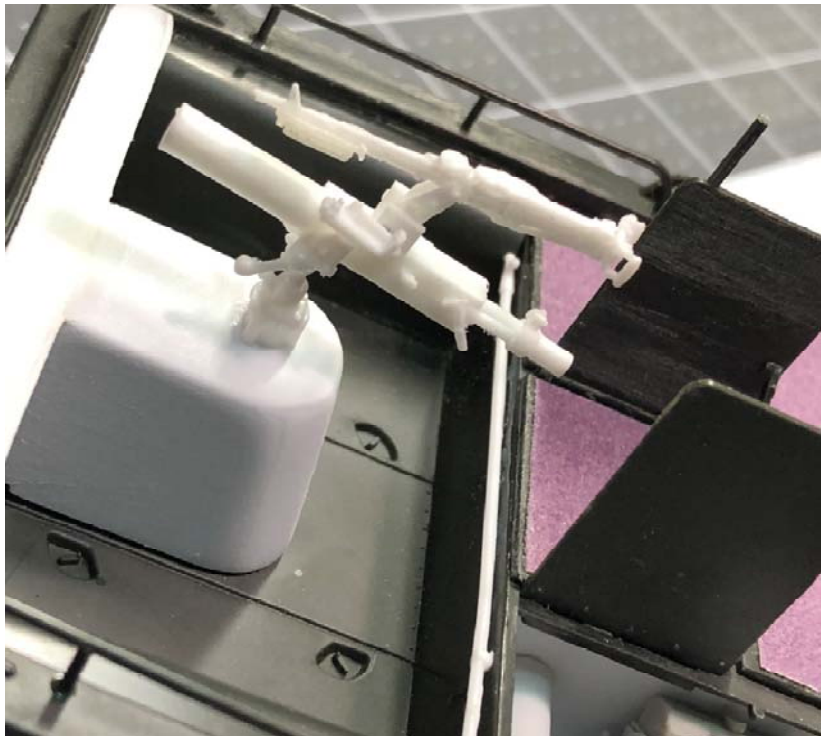
Stern Gun Mount Options

4.b. Mark 4 Mod 0 with Modified M-60 MG.



4.c. Mark 4 Mod 0 with M-60C MG.

*Note the 2 parts below are required to mount the M-60s above the Mortar.



Assembly Instructions.

Stern Gun Mount Reference Photos



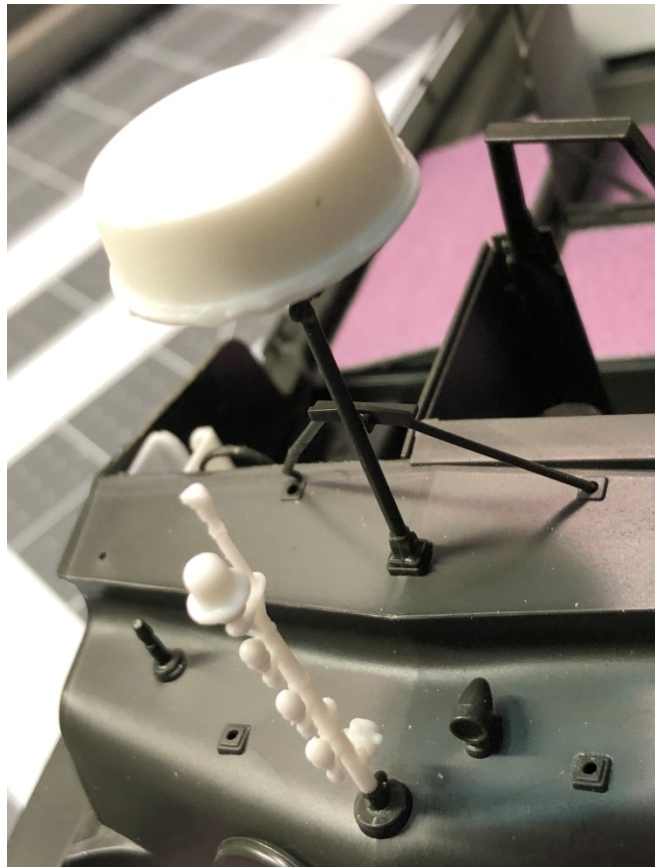
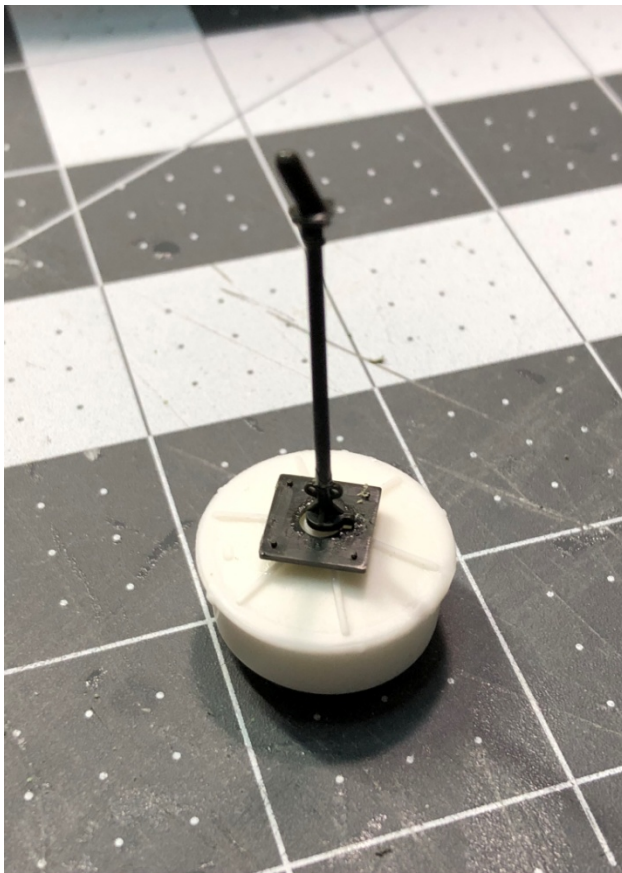
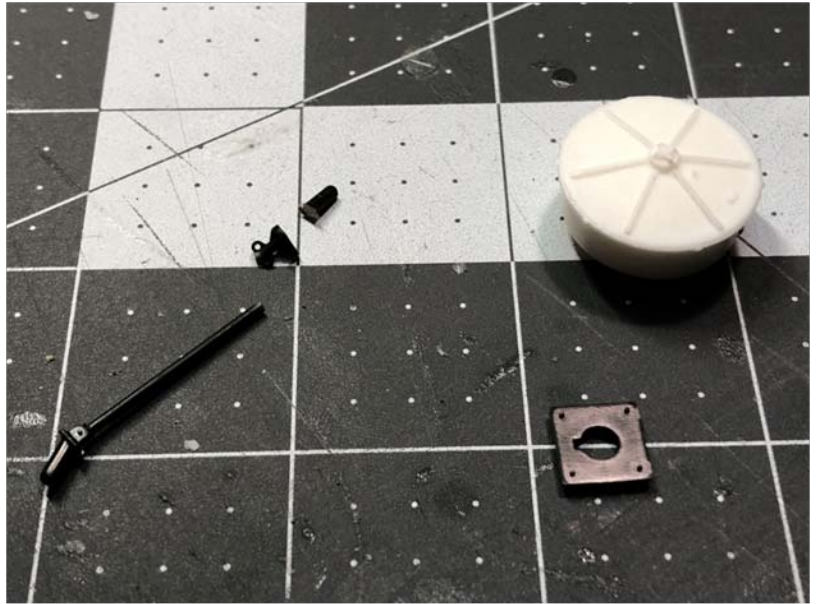
Assembly Instructions.

Radar Mast Options

The kit includes 3 additional options for the PBRs radar mast.

1. Detailed Radar Dome.
The underside of this dome is more detailed than the one supplied in the kit.

*Note. You will need to cut the top of the mast as shown here.

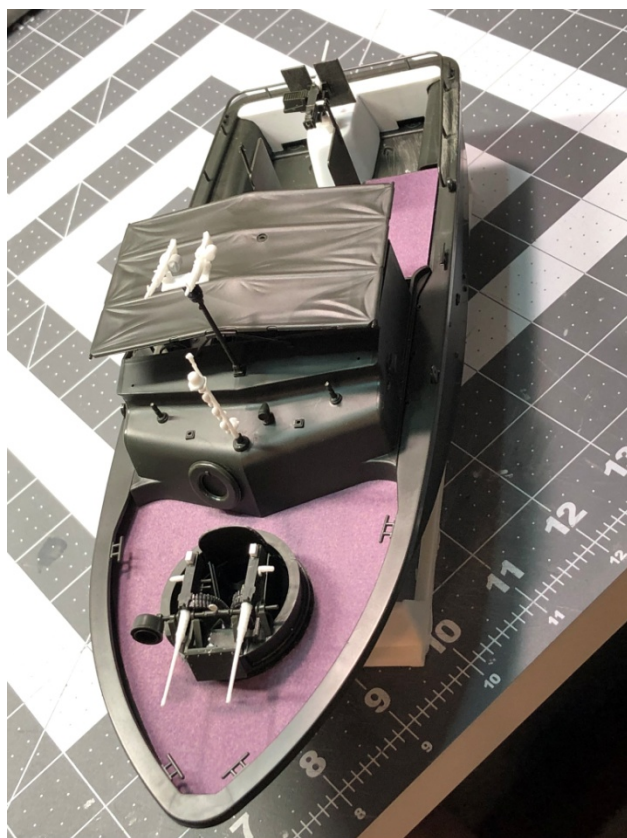
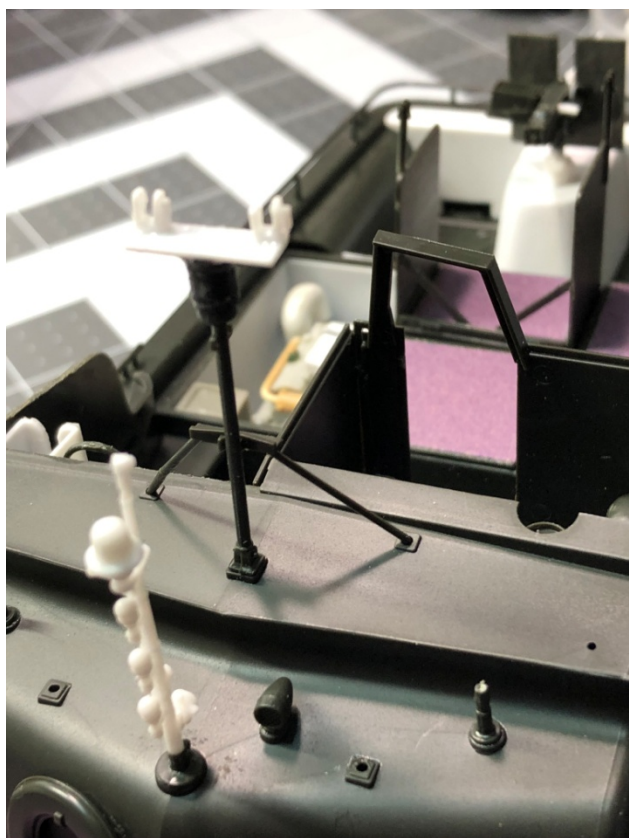
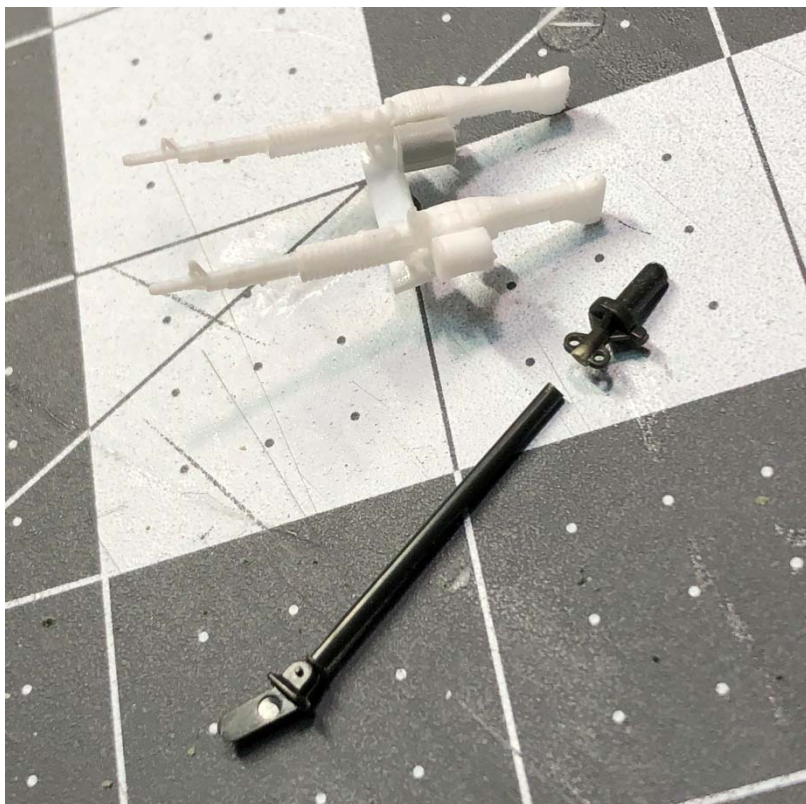


Assembly Instructions.

Radar Mast Options

2. Twin M-60 MG Mount.

*Note. You will need to cut the top of the mast as shown here.



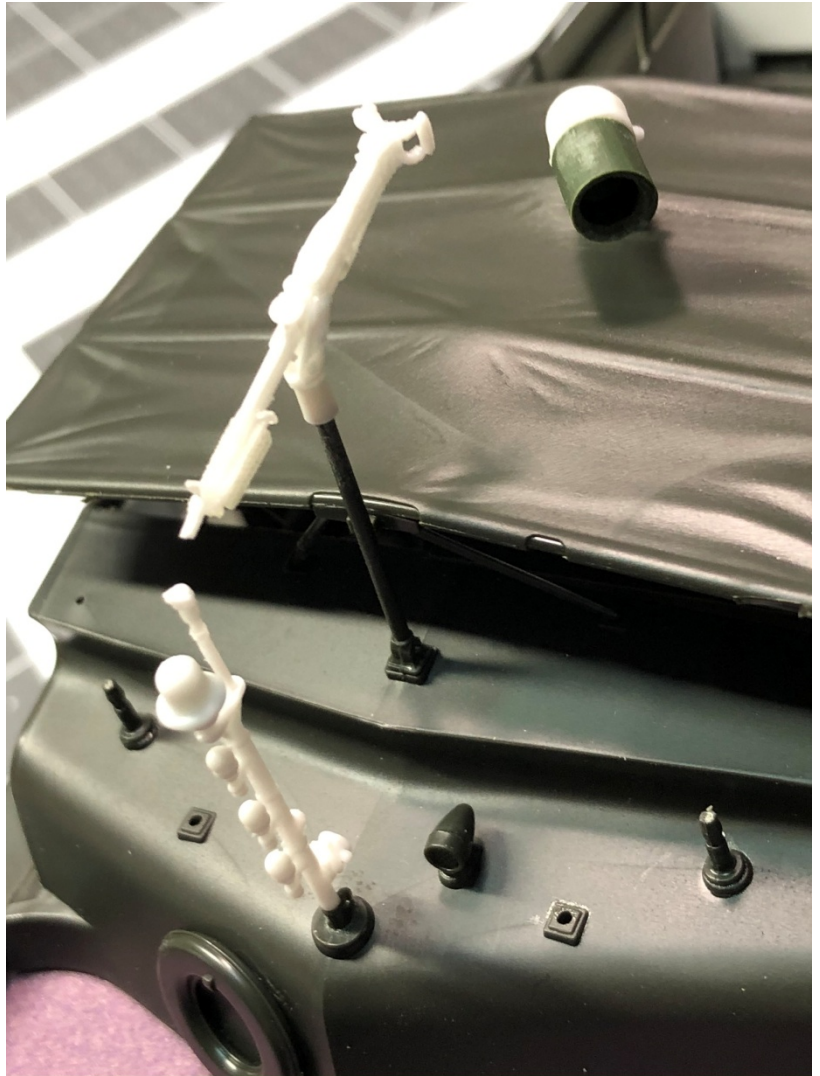
Assembly Instructions.

Radar Mast Options

3. single M-60 MG Mount.

*Note. You will need to cut the top of the mast as shown previously.

*Note. You can also mount the twin M-60 MG mount on top of the engine cover gun shields as shown below

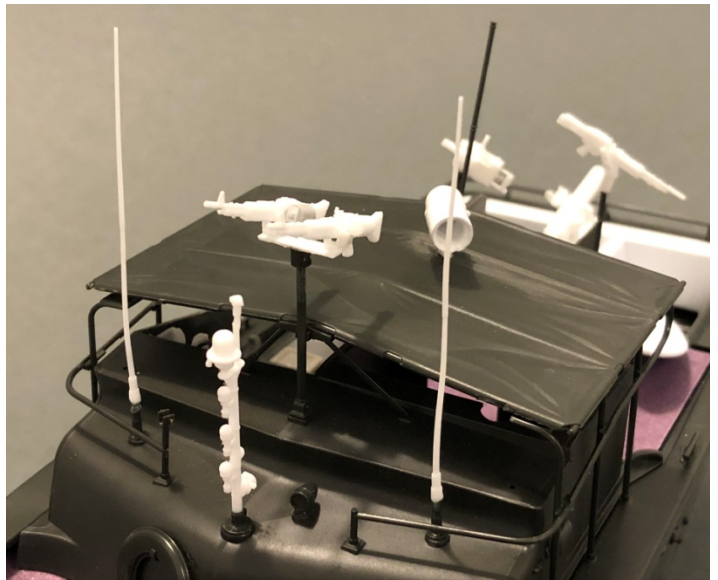
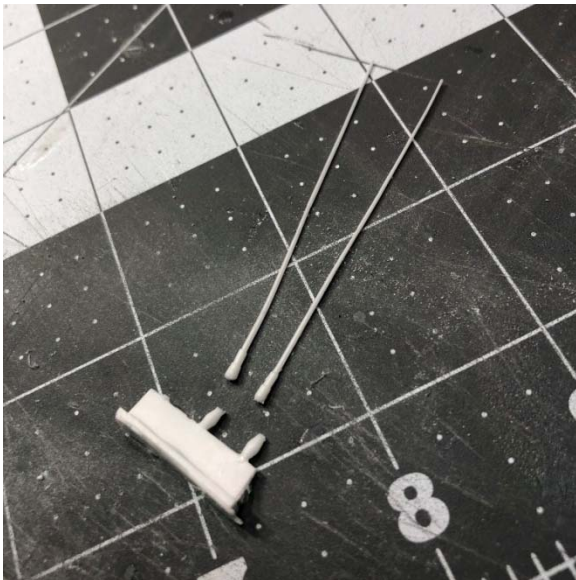
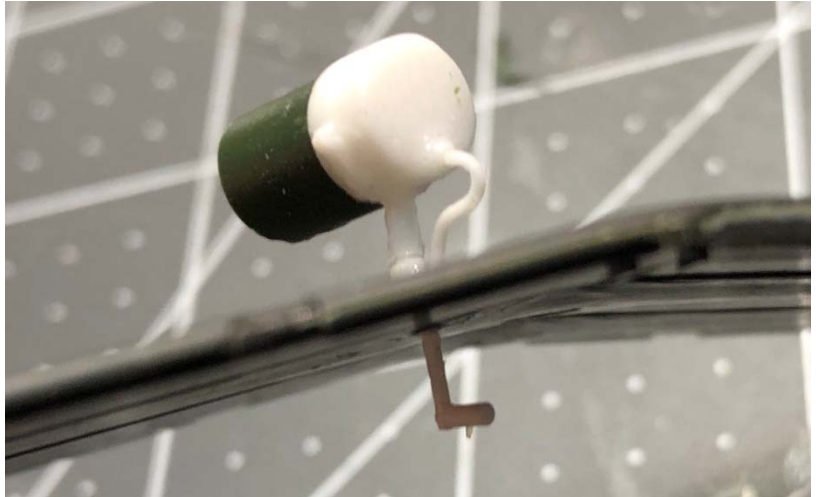


Assembly Instructions.

Additional Details

- Searchlight cover and handle.

• Antennas.



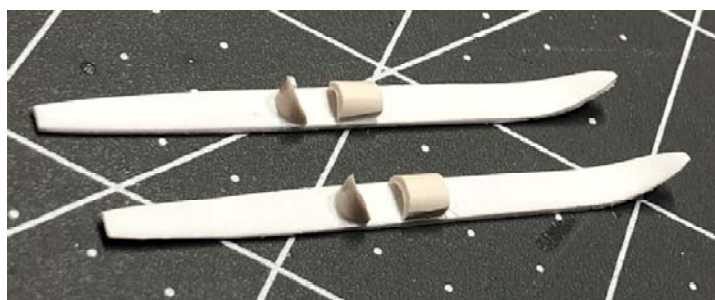
• Two Water Jet Pump Reverse Gate Inspection Plates.



Assembly Instructions.

Apocalypse Now Surfboard and Water Skis

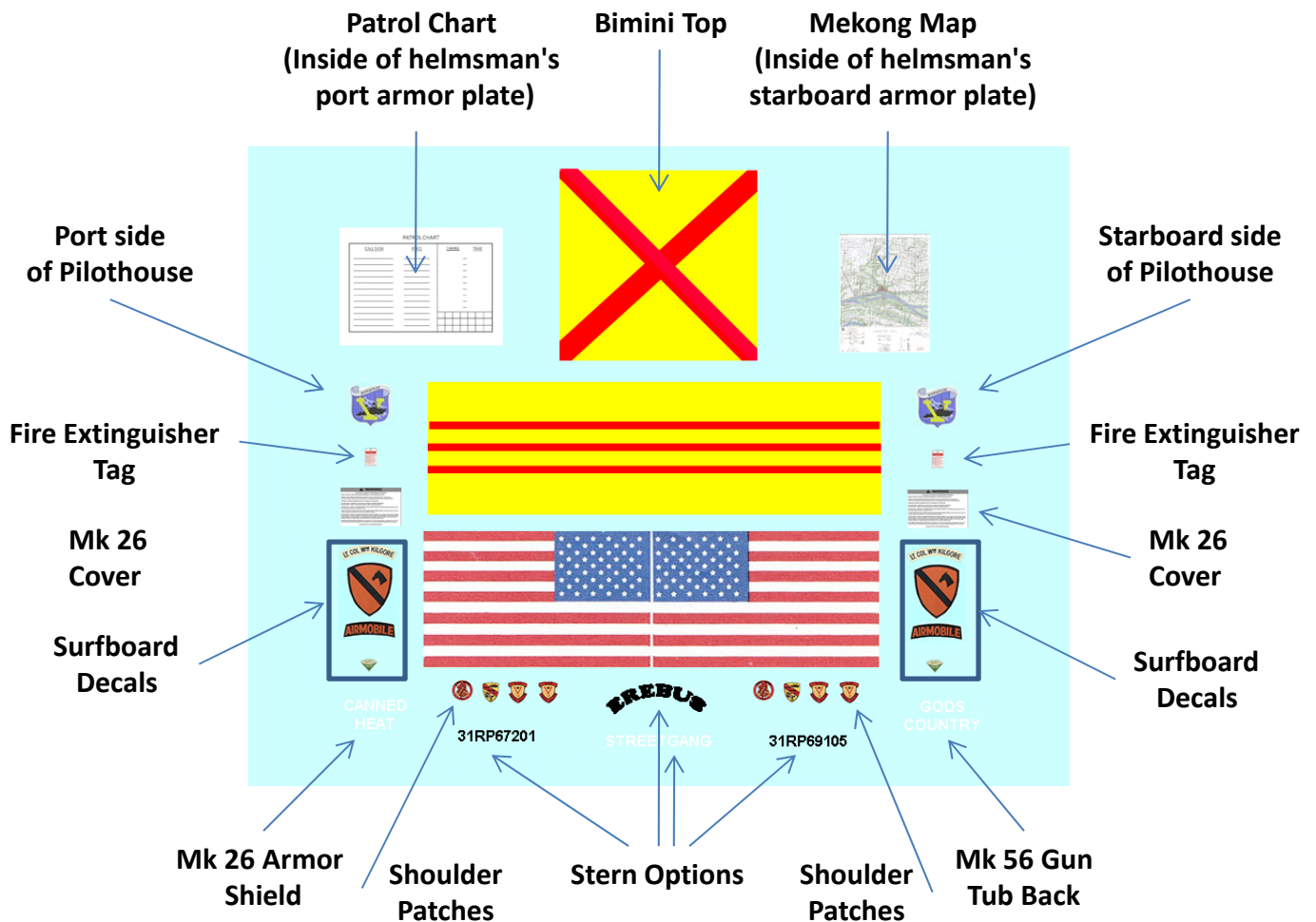
- Paint and add decals to both sides as shown below.



Assembly Instructions.

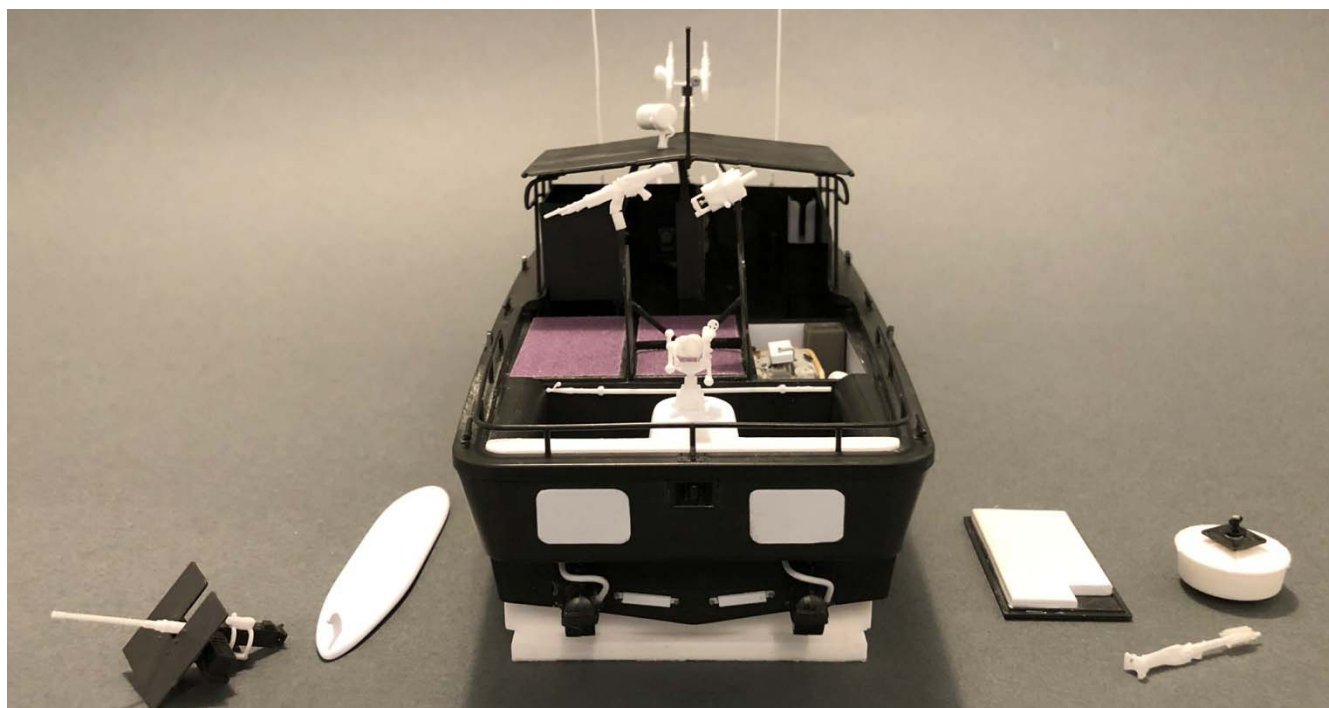
Decal Placement

Options are included for a South Vietnamese PBR, Apocalypse Now PBR, and Late War PBR Markings.



Assembly Tips.

- These steps are for building the flag. You can either use the U.S. Flag or South Vietnamese Flag provided on the decal sheep. You will need a glue stick, small piece of white thread, and aluminum foil.



Painting Tips

- All Navy PBRs in Vietnam were painted Marine Green #23 (FS 14052) overall, not Olive Drab!
- The canvas top was painted a gray-green color.
- PBRs in Vietnam did not have many markings or decals other than the national identification stars located on the bow or on top of the canopy. However, some boats assigned to River Patrol Flotilla V did display their insignia on both sides of the pilothouse.
- The boat registry number was etched into the stern of the boats as shown here.

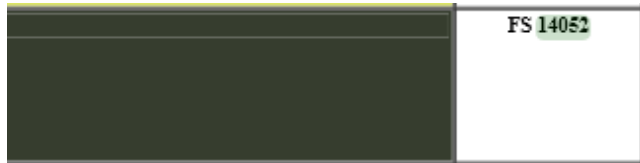
Example: 31RP6929

31 = Boat length

RP = River Patrol

67 = Year of production

29 = 29th boat built in 1967



Finishing Tips

- Go easy on rust when you weather the kit. PBR hulls were fiberglass and didn't rust so much. Most of the fittings were aluminum, which also didn't rust. The only parts that might have some minor rust spots are the armor plates, bilge pumps, and around bolts, but the crews took very good care of their boats. If you want to weather a boat you can paint rain streaks, mud and chipped paint revealing fiberglass, which was yellowish white.
- PBR stands for Patrol Boat River, as the Navy likes to name things backwards or Proud, Brave, Reliable as affectionately referred to by crewmembers'.
- If you need help or have any questions please visit Brown Water Enterprises .

www.brownwater.net



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