



Another T34 Tank - 1/20 scale

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Summary

This is a 1/20th scale T34 tank, a rolling model. Tried to make it look like the late model t34-85 versions. I was not...

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This is a 1/20th scale T34 tank, a rolling model. Tried to make it look like the late model t34-85 versions. I was not trying to create a historically correct model, just a model that would be reasonably fun to put together, look decent, and not send you to the hardware store for more pieces to complete.

Everything needed to assemble is printed with the exception of some fast set epoxy. The track and suspension are held together with filament. A couple clamps are nice to keep a couple things aligned as I found plastic parts can warp. The normal print clean-up tools and a 1/4 " round file was good at cleaning up holes to provide smooth rolling.

PLA+ was fine for all parts. While the model is fairly large the parts are sized to fit on a normal printer.

Updated with the ring and pinion gear to add an UNO and make it an RC model. Added a motor mount for a 12v motor.

Part List

Frame

Front - 1

Back - 1

Plate

Front - 1

Back - 1

Front Hatch - 1

Front Hatch bracket hinge - 2

Turret

Base - 1

Turret - 1

Mantlet - 1

Mantlet Pin - 2

Gun Barrel - 1

Suspension

TBlock - 1 for torsion bars...

Drive

Drive Sprocket - 2

Half Axle - 2

Idler Wheel - 2

Idler Solid Axle - 2

Wheel Road - 14

Taxle left - 5 for road wheels

Taxle right - 5

Wheel Lock - 40

4mm spacer - a lot (spacers are used as standoffs and to align and center track and wheels)

1mm spacer - a lot

Track Pieces 10 per print - 12 (i cut 2 segments off last print to get proper length)

Various Tank decor

Engine compartment grate

Left and right fenders

External Fuel barrels

front machine gun barrel

Fender storage box

Post-Printing

Glue the front and back frame pieces together, clamps are best to hold tight while the glue sets.

Assemble the 10 sets of road wheels. 1 axle, 1mm spacer against the frame, 1mm spacer against the inner wheel, 4mm spacer between the wheels and a wheel lock to hold together. Insert each into frame and secure with a clip.

When all axles are in place slip the slotted tblock over the axles and glue it down, clamp or tape in place until set. The torsion of the axles makes the suspension.

Slip the idler axles in place they should overlap and allow the axle to rotate to get proper tension on the track. Don't secure it until track is in place. Use spacers and a wheel lock to secure idler wheels in line with the road wheels.

use the half axles and spacers to align the sprocket with the road wheels and lock sprocket on with a wheel lock. (If you are thinking of doing a RC tank you can use the pinion and ring gears printed. Add a 4mm spacer and ring gear to the axle in the pocket on the frame and the sprocket will need to be glued to the axle)

Each side of the tank used 6 sets of 10 tracks. I removed 2 links from the last set. Assemble with additional filament. The idler axle can be rotated and glued to maintain proper tension at this point.

Install Mantlet into turret with two pins. I tapered one end to help locate them into the holes in the turret. Then the turret base can be pushed into the top plate and the turret can be snapped into place. Should be fairly tight.

The top plates should slide into place after cleaning them up. You might need to taper the ends of the top edge of the frame to get them all the way in, but they should fit snug.

The barrel should slide in tight into the mantlet, might need to clean it up to get it to slide in.

Attach the hinges to the front plate hatch with filament, and then use the hatch to locate and glue the hinges to the front plate.

Glue on other adornments, grates, mantlet cover, machine gun, fuel tanks, fenders.

That is it...

I'll provide an update once I have motors mounted and driving tank.

Category: Models

Model files



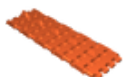
tank_backbarrel.stl



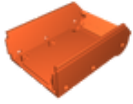
taxler.stl



mg-body.stl



track_assem.stl



frame-back.stl



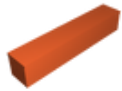
turret_base.stl



tank_side_grate.stl



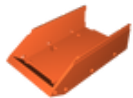
bf2.stl



tank_fender_box.stl



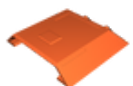
pinion_gear.stl



frame-front.stl



bf1.stl



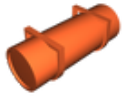
plate_back.stl



hatch_bracket.stl



tblock.stl



tank_sidebarrel.stl



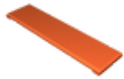
half_axle.stl



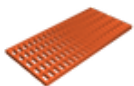
ring_gear.stl



spacer1.stl



mantlet_cover.stl



tank_top_grate.stl



plate_front.stl



mantlet.stl



turret.stl



ff1.stl



idler_saxle.stl



mantlet_pin.stl



suspension_axle_clip.stl



barrel.stl



plate_front_hatch.stl



ff2.stl



idler.stl



spacer4.stl



road_wheel.stl



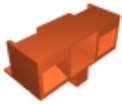
sprocket.stl



taxlel.stl



wheel_lock.stl



motormount-body.stl

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