

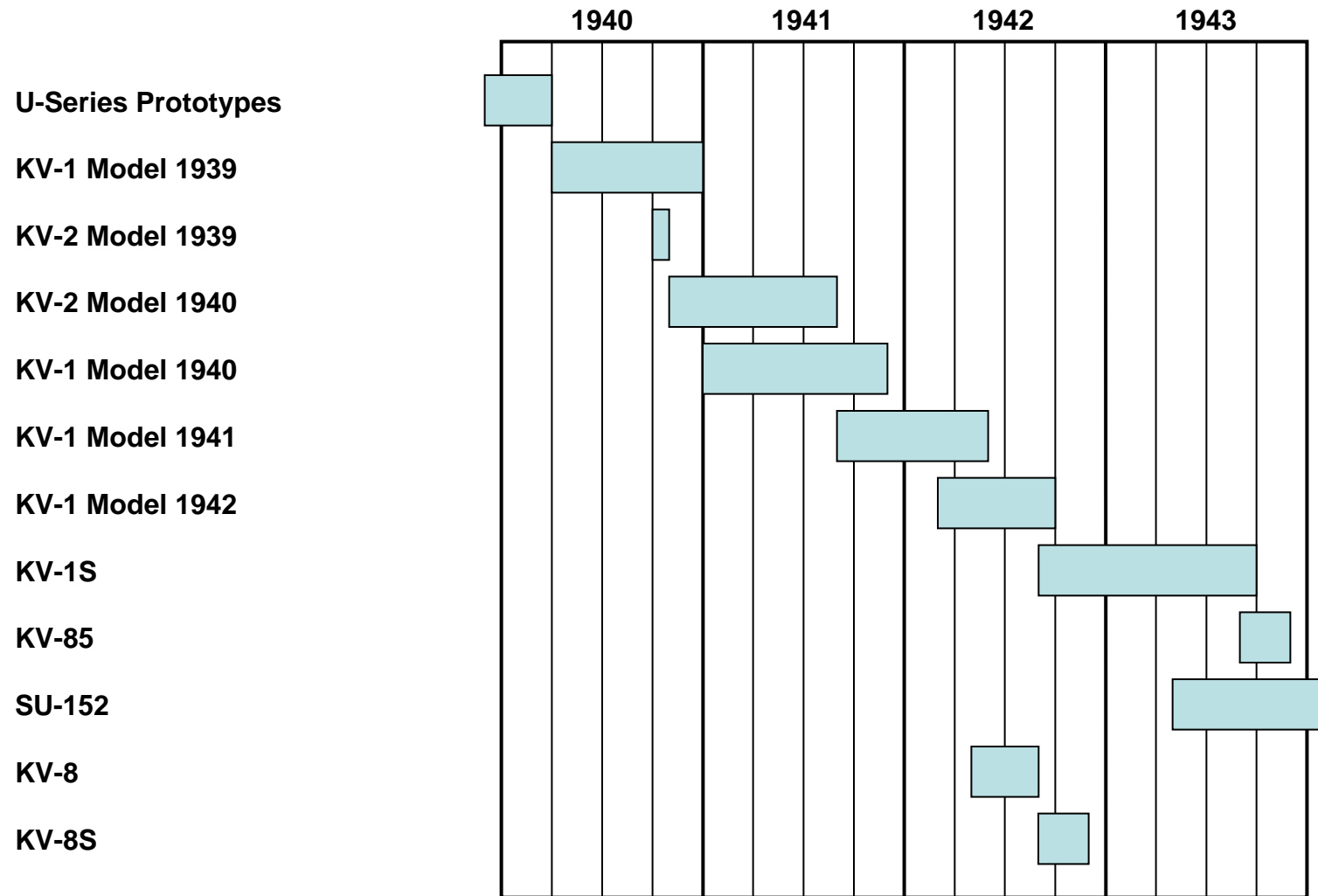


*The Soviet KV Heavy Tanks
&
How to Model Them*

Agenda – What We Will Cover

- KV-1
 - Prototypes: U-0 (January 1940)
 - KV-1 Model 1939
 - KV-1 Model 1940
 - KV-1 Model 1941
 - KV-1 Model 1942
 - KV-1S
 - KV-85
- KV-2
 - Prototypes: U-1 (February/March 1940)
 - KV-2 Model 1939
 - KV-2 Model 1940

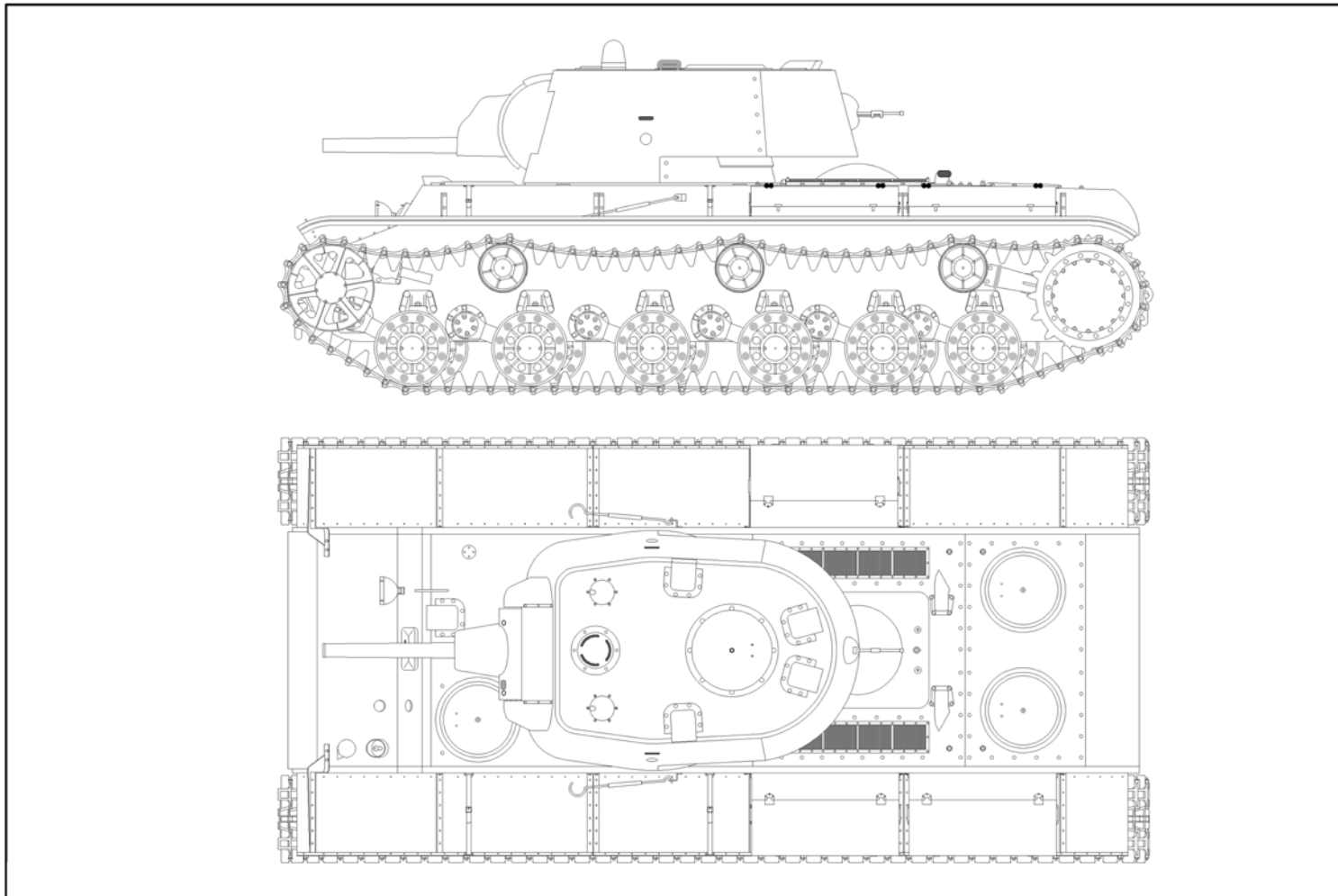
KV Series Production Timeline



Summary

- KV series was short-lived
 - April 1940 to December 1943
 - Less than 5,000 gun tanks produced
 - Plus 670 SU-152s
 - Plus 137 KV-8/KV-8S
- More than 20 distinct production variants
 - Not counting factory variations
 - Comparable to the Sherman in number of changes

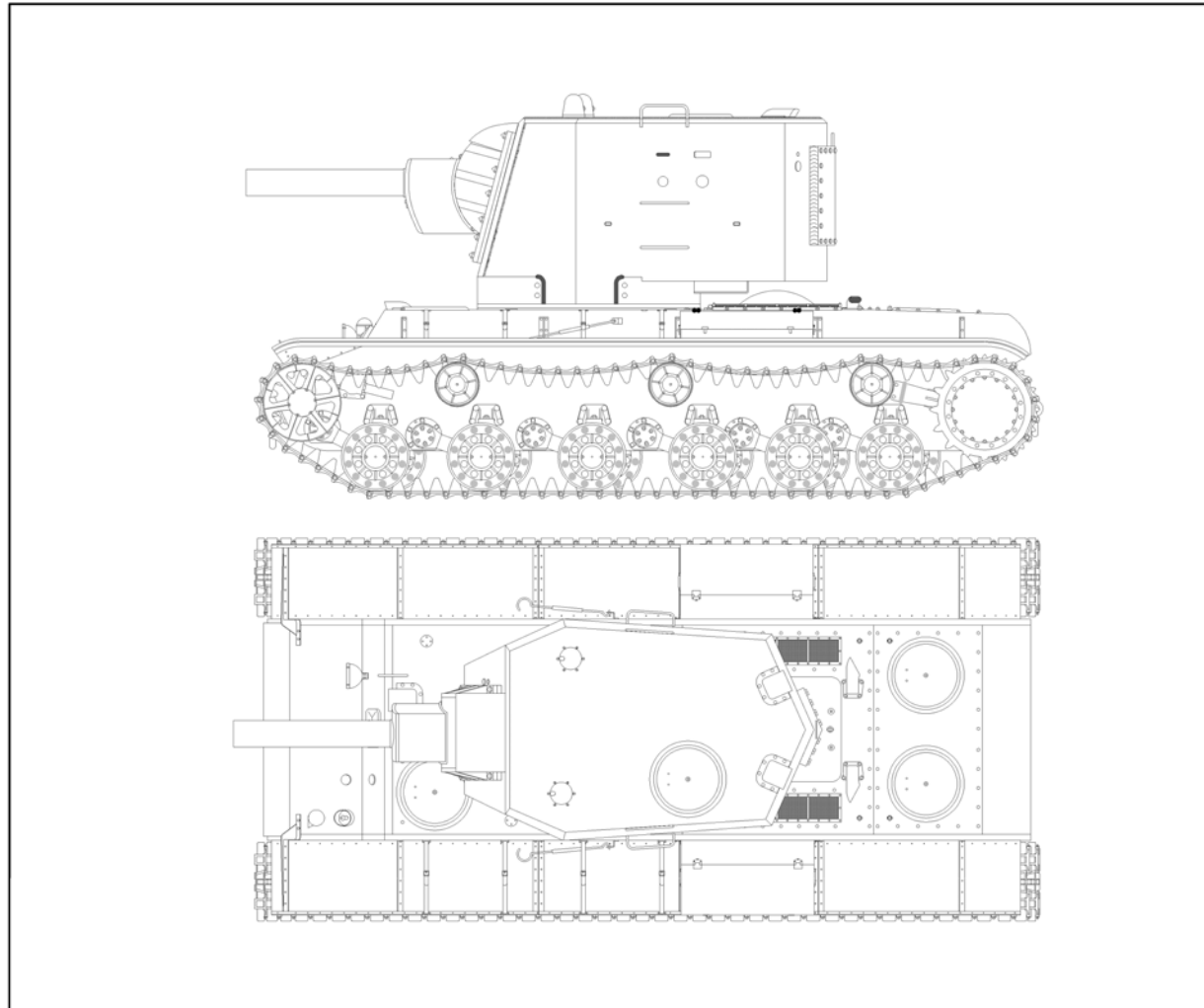
KV-1 Prototypes – U-0 (January 1940)



Modeling the KV-1 Prototypes

- Hull from Trumpeter “KV Big Turret” kit
 - Relocate headlamp and siren (depending on vehicle)
 - Add blanking plate on glacis plate
 - Modify exhaust air deflector plate
 - Modify fenders (depending on vehicle)
 - Add cowls to radiator intake screens (depending on vehicle)
- Turret from Mig Productions’ KV-1 Model 1939 set
 - Replace mantlet with L-11 mantlet from Trumpeter “KV Small Turret” kit
 - Cut out bottom of recuperator cover
 - Cut slot in front of recuperator cover below gun barrel

KV-2 Prototypes – U-1 (February/March 1940)

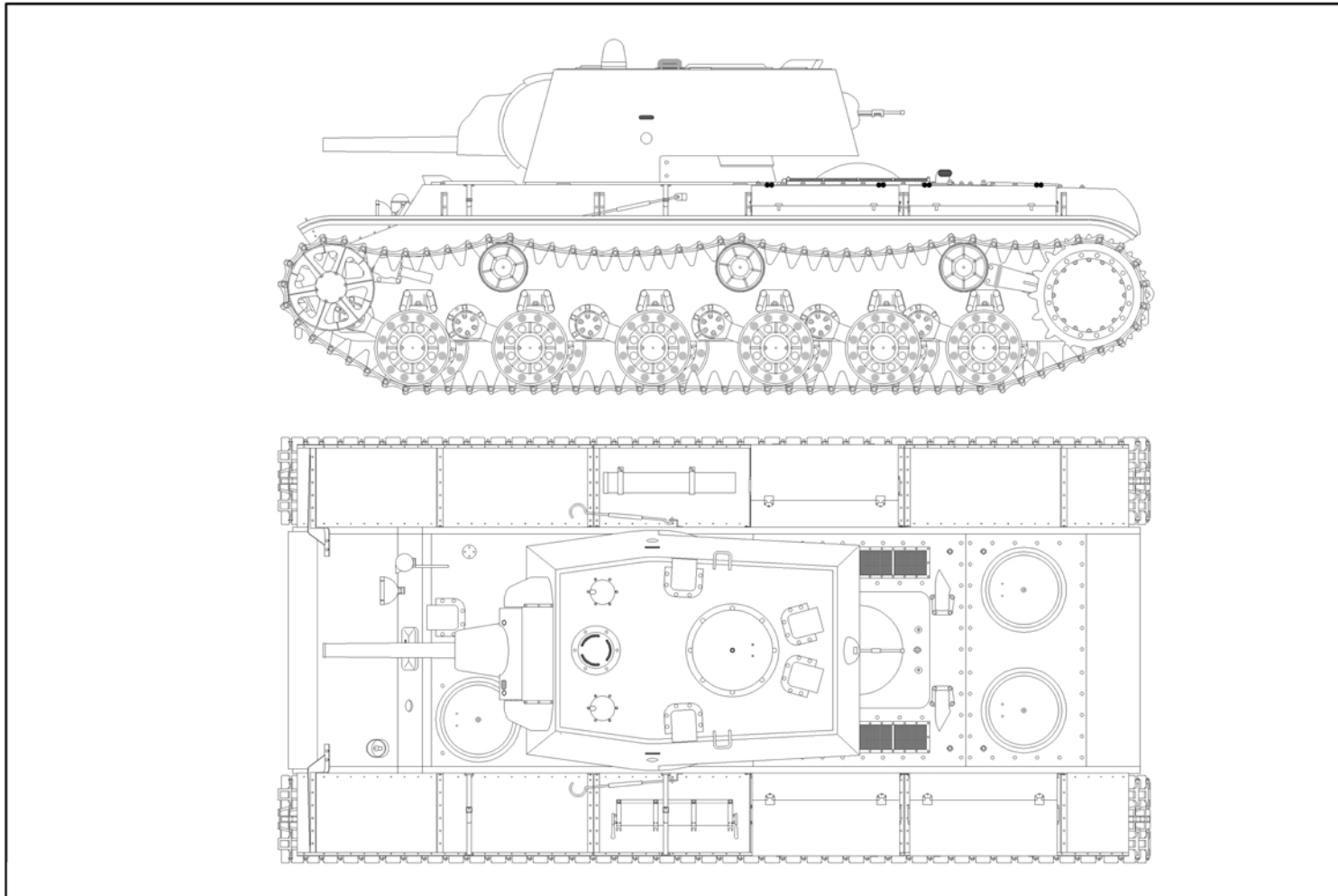


Modeling the KV-2 Prototypes

- Trumpeter “KV Big Turret” kit
 - Relocate headlamp and horn
 - Add extra port in glacis plate
 - Omit rear-most fender stowage box
 - Add extra pistol ports to turret sides
 - Add covers to pistol port and vision port in turret front
 - Omit ventilators from turret roof
 - Replace gun barrel
 - No grooves in barrel
 - No reinforcing ring around muzzle
 - Reconfigure hand-rails on turret sides



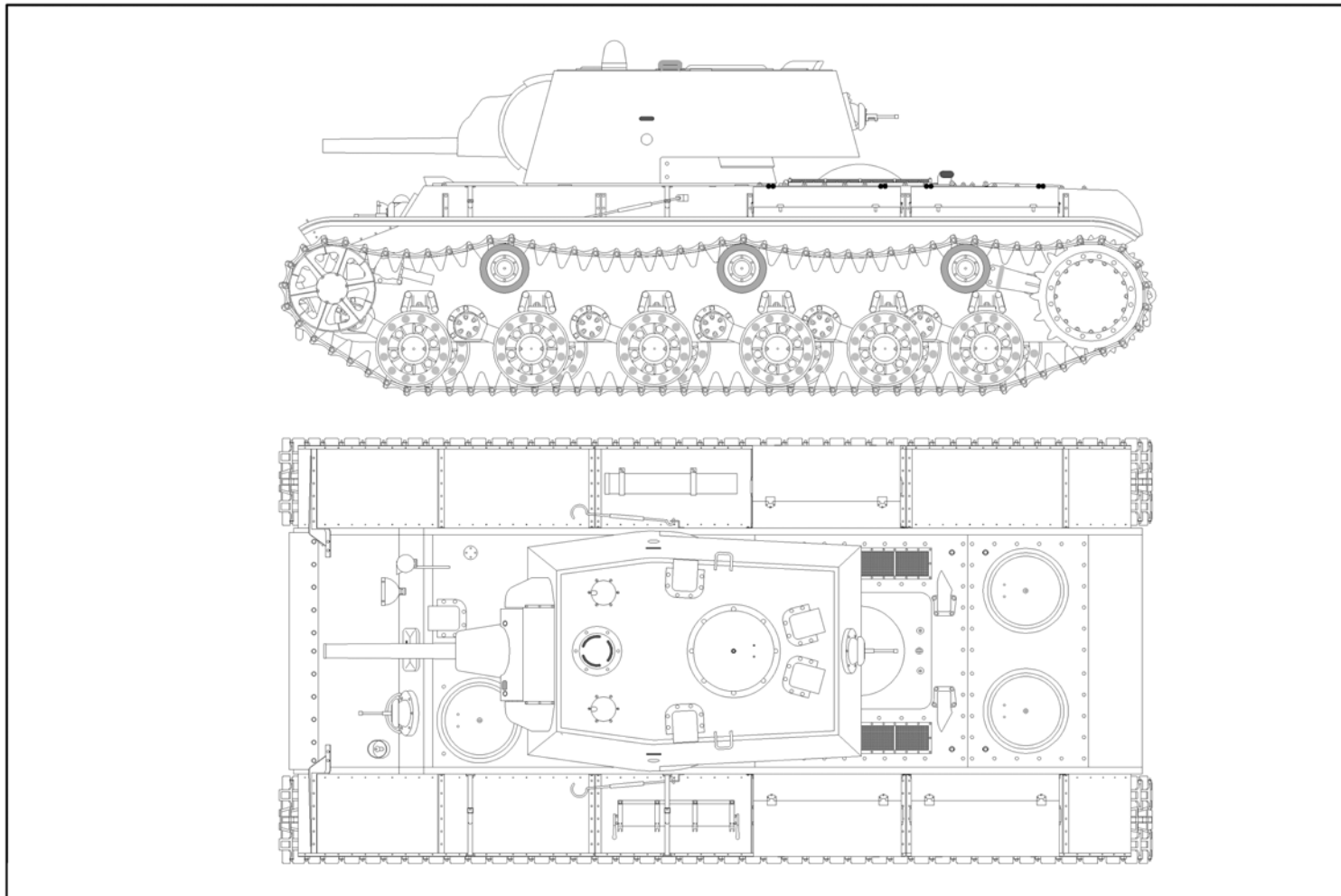
KV-1 Model 1939: April – October 1940



Modeling the Early KV-1 Model 1939

- Hull from Trumpeter “KV Big Turret” kit
 - Assemble according to instructions
 - Omit rear lifting eyes from transmission compartment roof
- Turret from Trumpeter “KV Small Turret” kit
 - Use L-11 gun and mantlet
 - Remove reinforcing plates alongside trunnion bulges
 - Sand off ring-marks and weld seams
 - Create weld seams at apex of corners
 - Relocate grab handles aft of episcopes covers
 - Fabricate unarmored MG mount

KV-1 Model 1939: October – December 1940

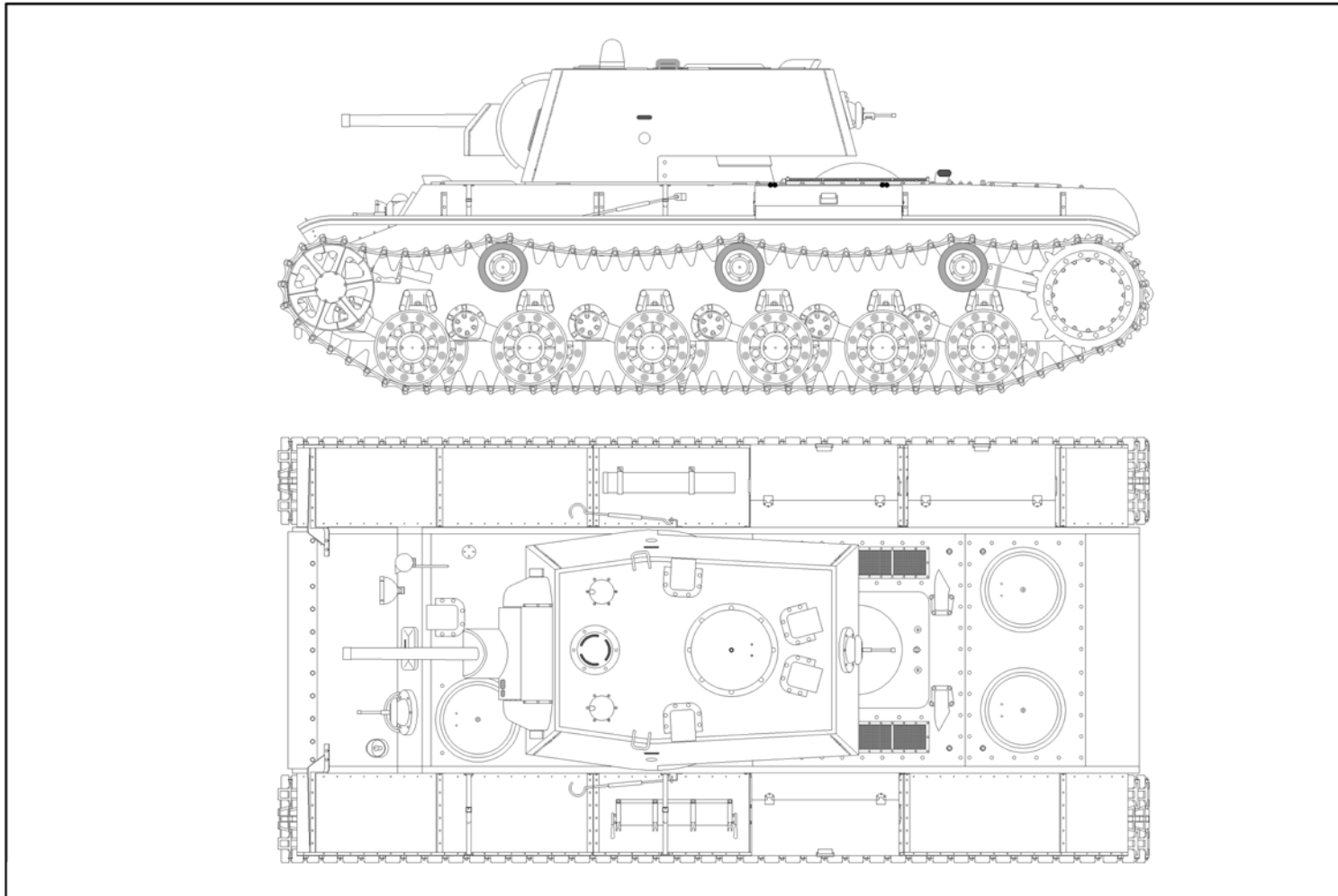


Modeling the Late KV-1 Model 1939

- Trumpeter “KV Small Turret” kit
 - Use early pattern radiator intake screens
 - Omit vent from engine access hatch
 - Use L-11 gun and mantlet
 - Remove reinforcing plates alongside trunnion bulges
 - Sand off ring-marks and weld seams
 - Create weld seams at apex of corners
 - Relocate grab handles aft of episcopes covers



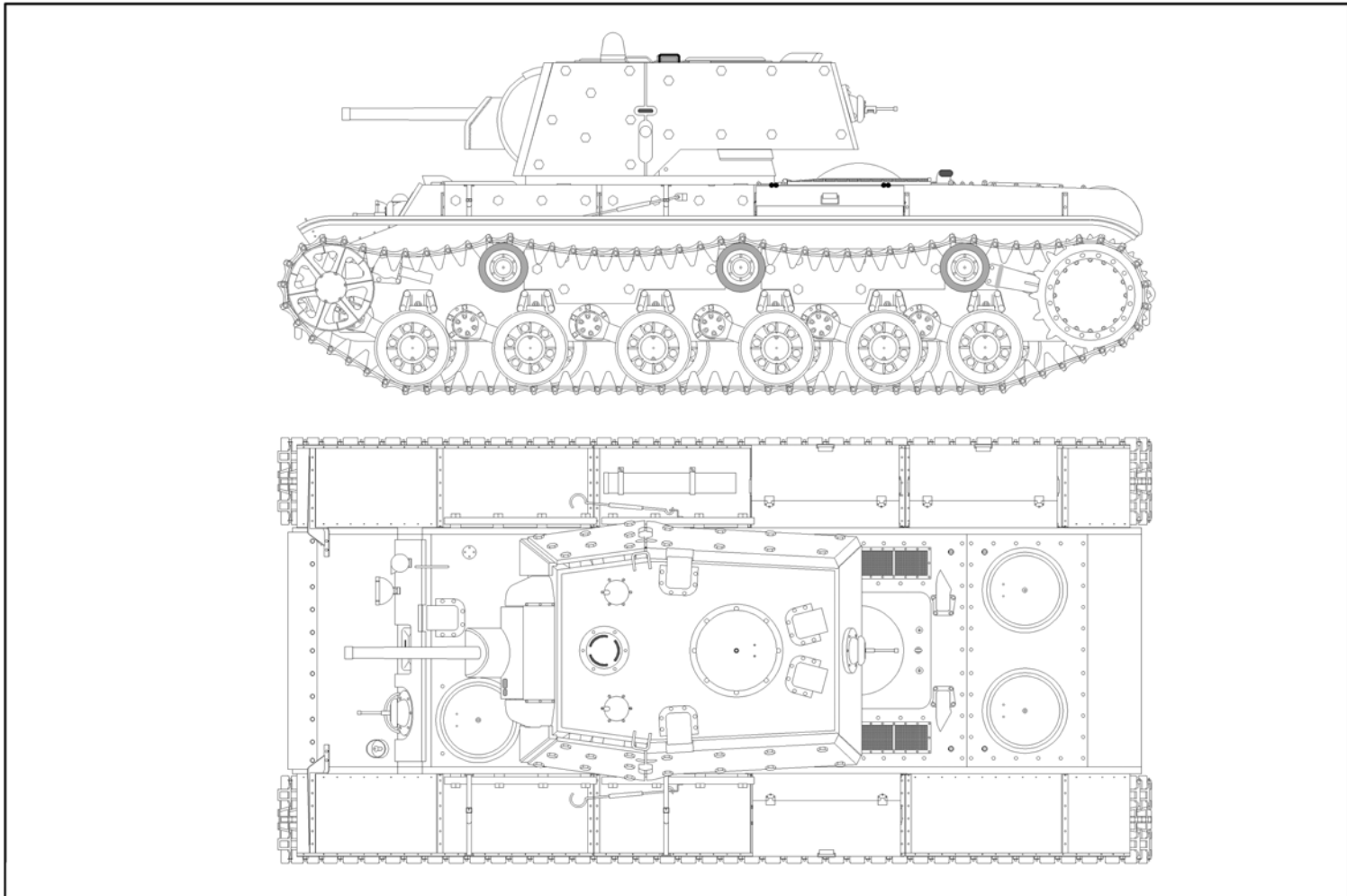
KV-1 Model 1940: January – June 1941



Modeling the Early KV-1 Model 1940

- Trumpeter “KV Small Turret” kit
 - Use early pattern radiator intake screens
 - Sand “flat spot” in the rear hull overhang or use part from Trumpeter’s “KV Big Turret” kit
 - Omit appliqué armor from hull front & driver’s front plate
 - Sand off ring marks for LKZ production

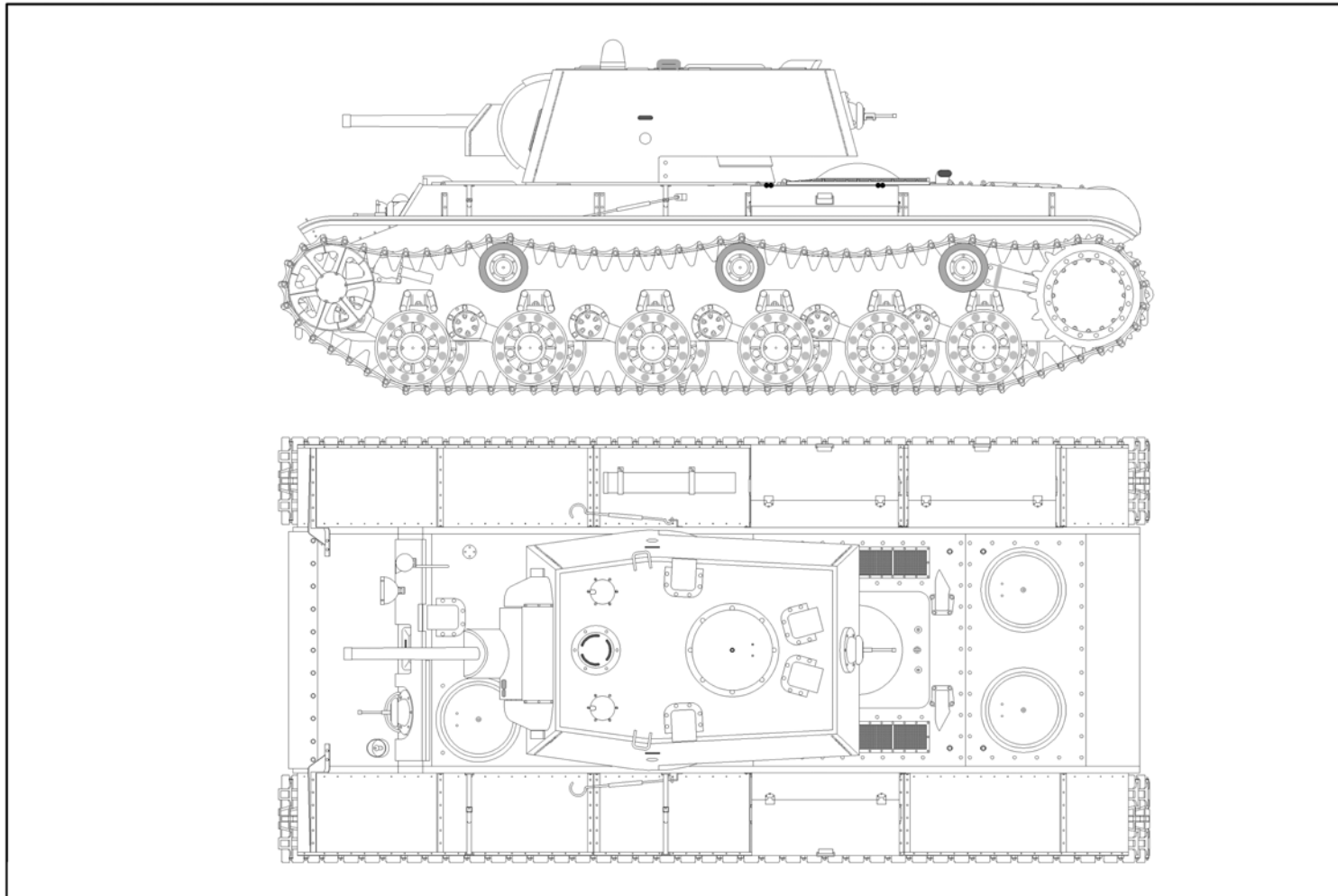
KV-1 Model 1940 s *Ehkranami*: July 1941



Modeling the KV-1 Model 1940 s *Ehkranami*

- Trumpeter KV-1 Model 1941 s/ *Ehkranami* kit
 - Sand off ring marks on turret front and rear for LKZ vehicle
 - Correct forward appliqué plates on turret
 - Correct appliqué plates on upper hull sides

KV-1 Model 1940: August – September 1941

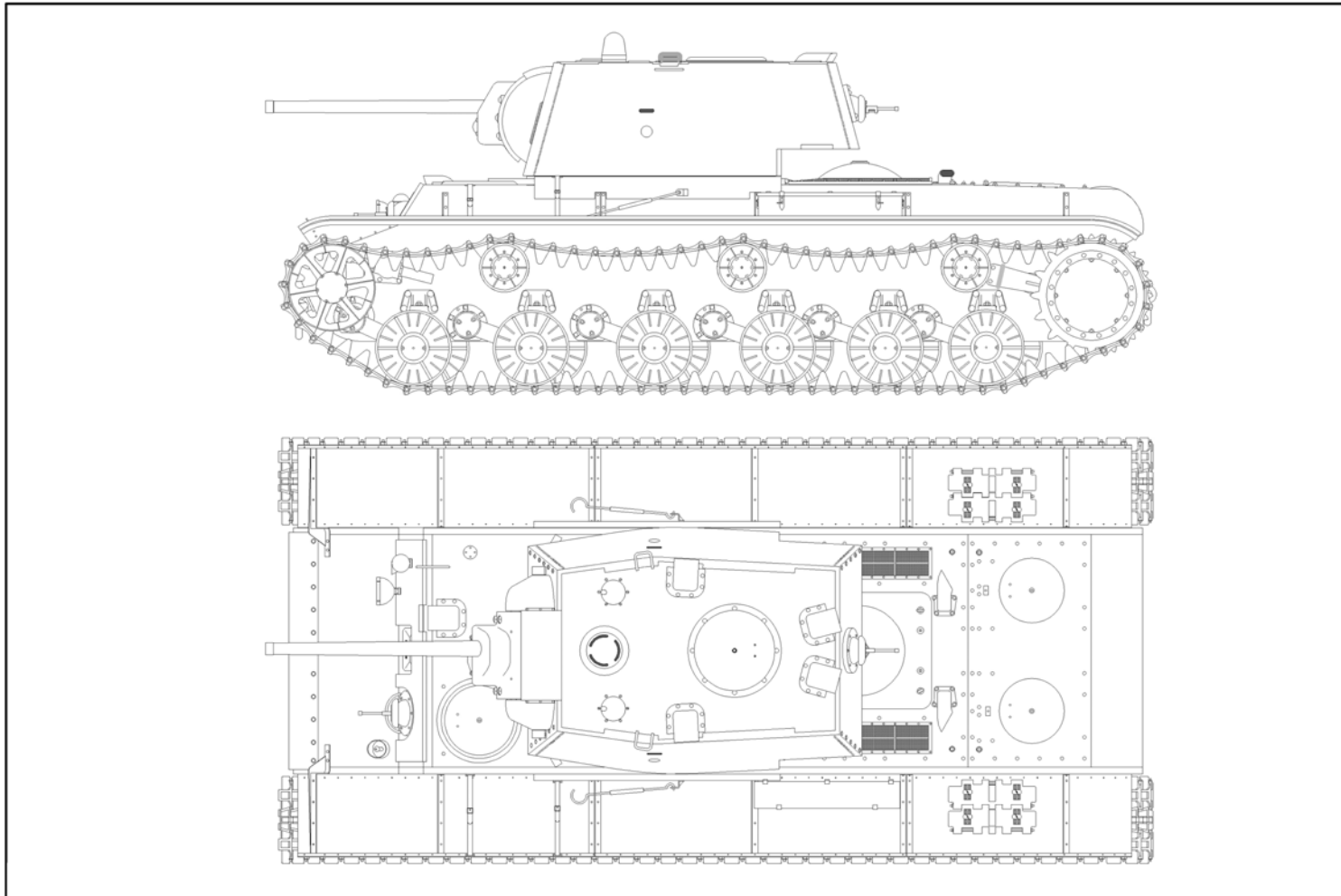


Modeling the Late KV-1 Model 1940

- Trumpeter “KV Small Turret” kit
 - Assemble out of the box for ChTZ production
 - Sand off ring marks for LKZ production
 - Omit cross-cut saw from left-hand fender



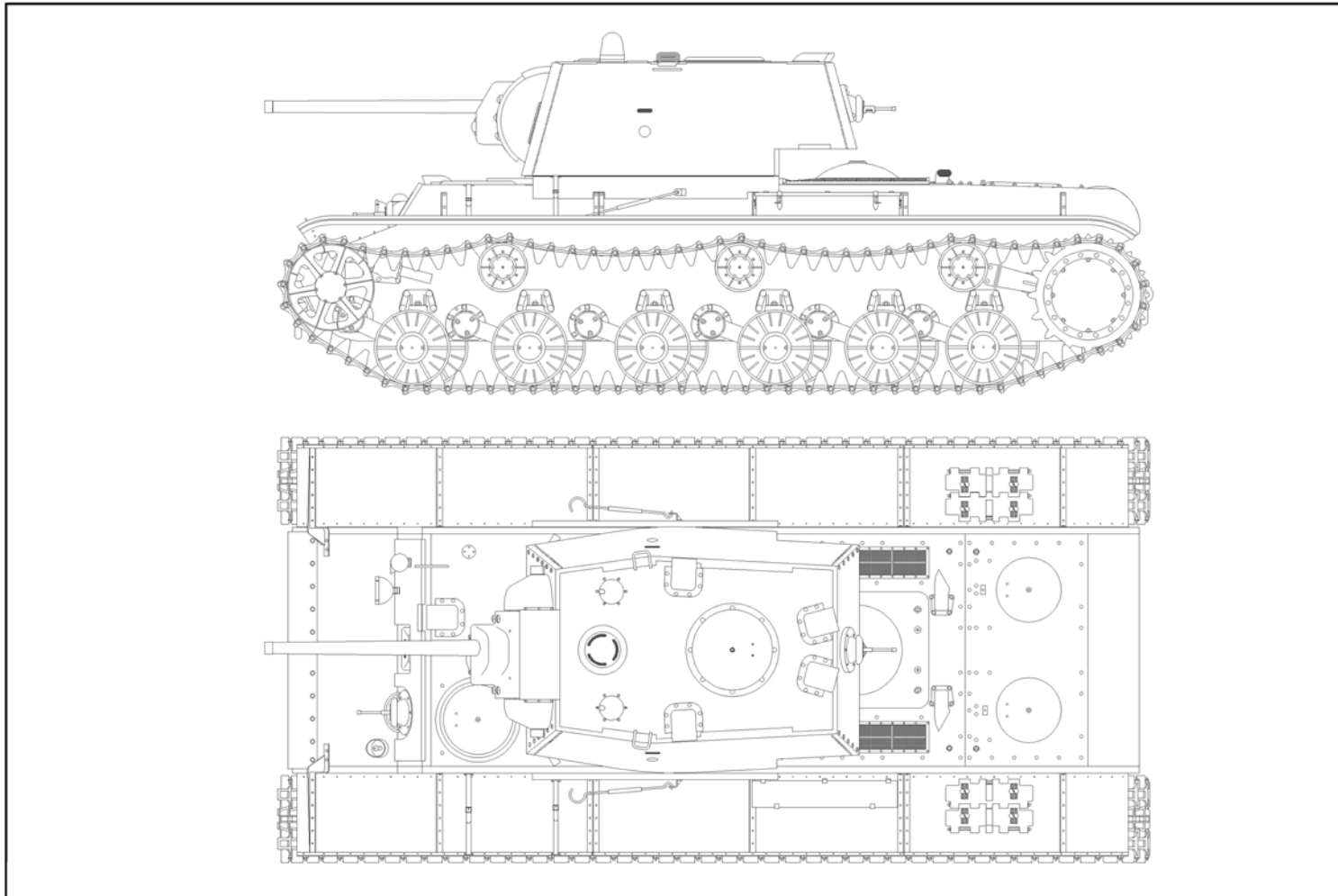
KV-1 Model 1941 w/ Simplified Welded Turret (F-32 Gun)



Modeling the KV-1 Model 1941 w/ Simplified Welded Turret (F-32 Gun)

- Hull from Trumpeter KV “Ehkranami” kit
 - Modify retaining bolts on engine and transmission cover plates
 - Use appliqué armor from “Small Turret” kit on hull front, driver’s front plate and upper hull sides
 - Add chevron-shaped armor on hull top
- Turret from Trumpeter KV-1 “Simplified Turret” kit
 - Use F-32 gun & mantlet from “Small Turret” kit
 - Remove dove-tailed joints from upper and lower sides
 - Relocate rear-facing episcopes on roof
 - Use angled reinforcing plate beneath turret bustle

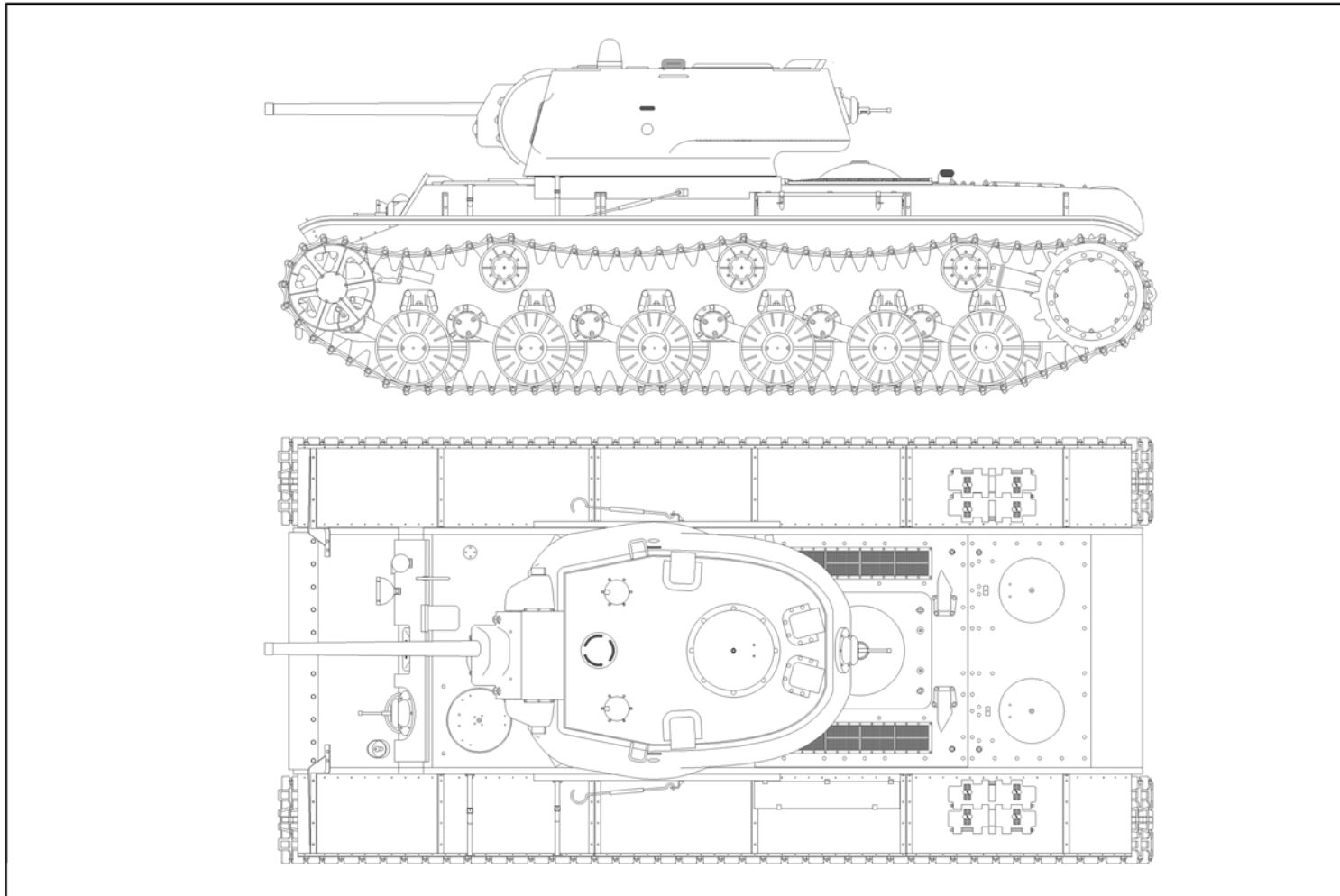
KV-1 Model 1941 w/ Simplified Welded Turret (ZIS-5 Gun)



Modeling the KV-1 Model 1941 w/ Simplified Welded Turret (ZIS-5 Gun)

- Hull from Trumpeter KV-1 Heavy Cast Turret kit
 - Use domed engine access hatch with vent
 - Scratch-build taller appliqué armor for driver's front plate
- Turret from Trumpeter KV-1 Simplified Turret kit
 - Relocate rear-facing episcopes

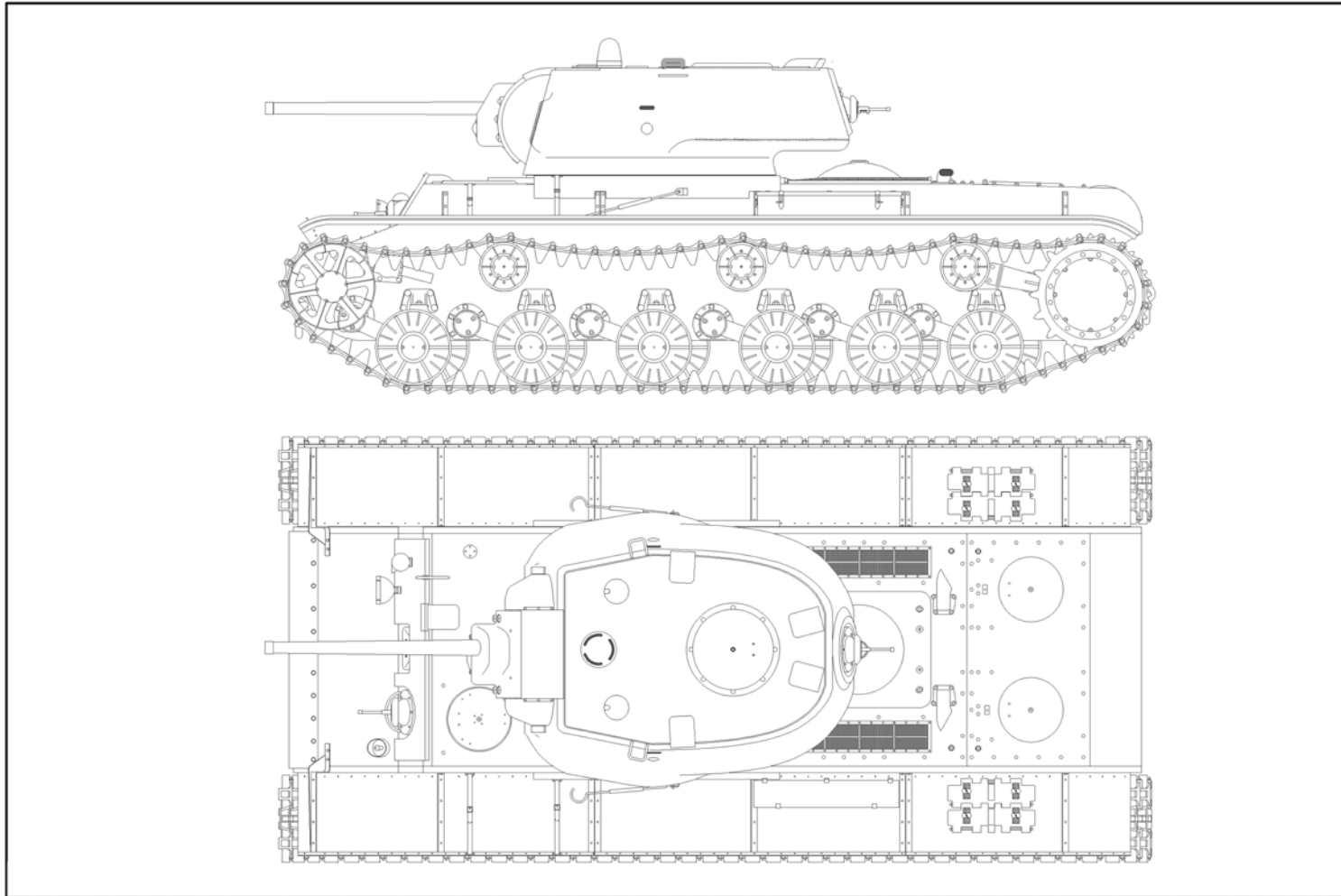
KV-1 Model 1941 w/ Early Cast Turret



Modeling the KV-1 Model 1941 w/ Early Cast Turret

- Trumpeter KV-1 “Heavy Cast Turret” kit
 - Assemble according to instructions
 - Fit vent to engine access hatch
 - Scratch-build taller appliqué armor for driver’s front plate for Factory No.200 hull
 - Fabricate flush-mounted transmission access hatches for

KV-1 Model 1941 w/ Reinforced Cast Turret

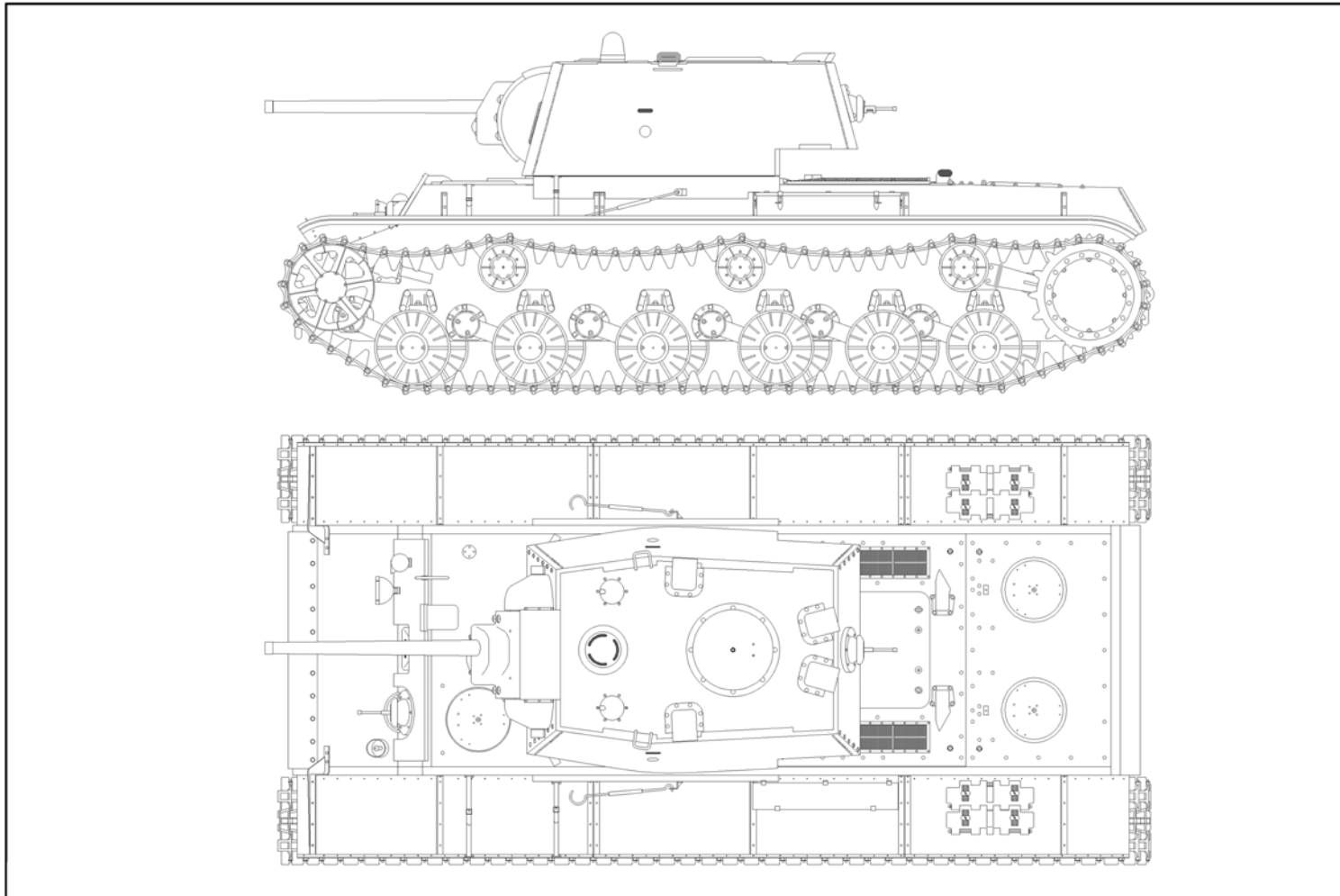


Modeling the KV-1 Model 1941 w/ Reinforced Cast Turret

- Hull from Trumpeter “KV-1 Heavy Cast Turret” kit
 - Build according to instructions
- Turret from Trumpeter “KV-1 Lightweight Cast Turret” kit
 - Build according to instructions



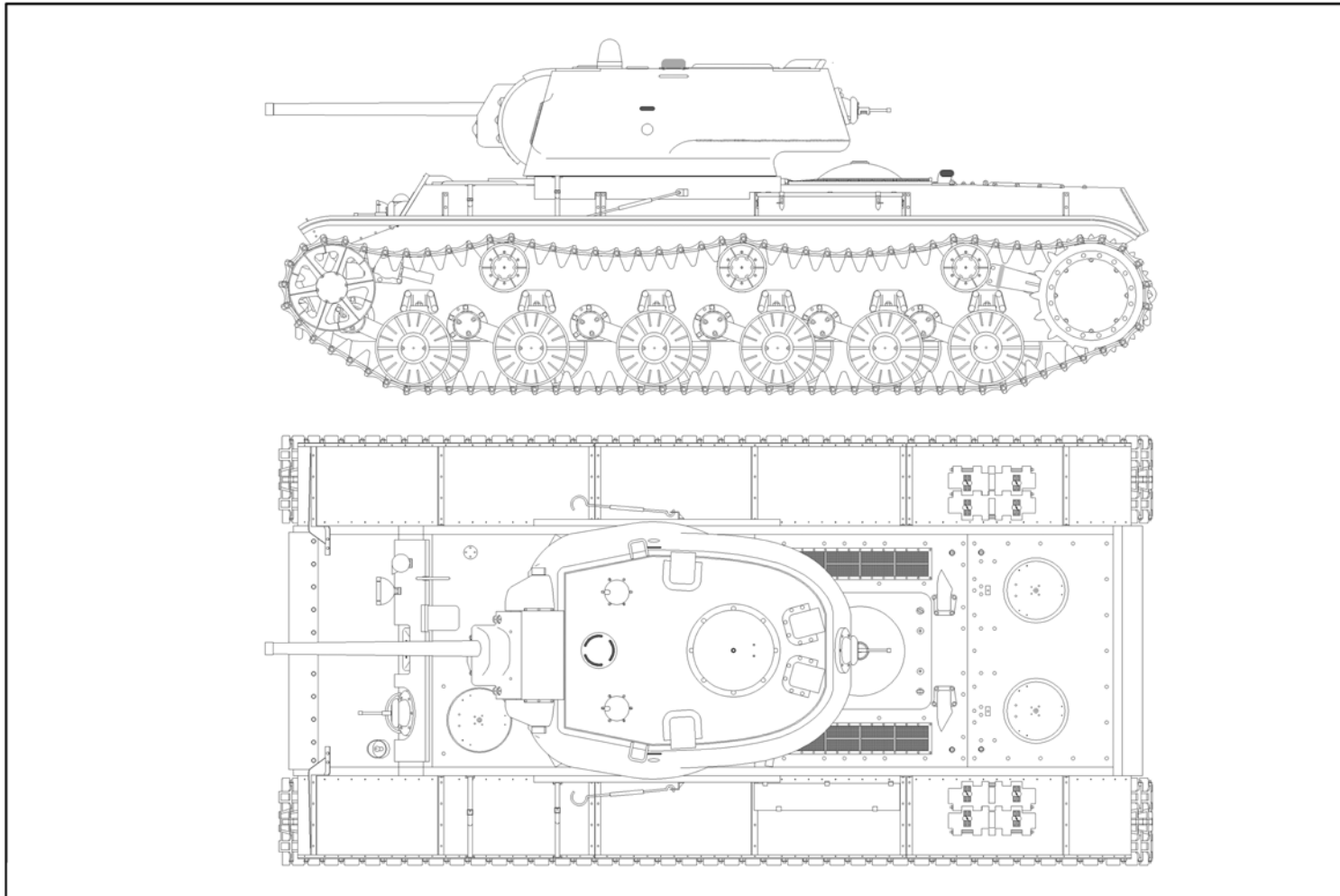
KV-1 Model 1942 w/ Simplified Welded Turret



Modeling the KV-1 Model 1942 w/ Simplified Welded Turret

- Trumpeter “KV-1 Model 1941 Simplified Turret” kit
 - Assemble according to instructions
 - For vehicle depicted in decals:
 - Use flat engine access hatch without vent
 - Omit turret cheek armor
 - Scratch-build taller appliqué armor for driver’s front plate

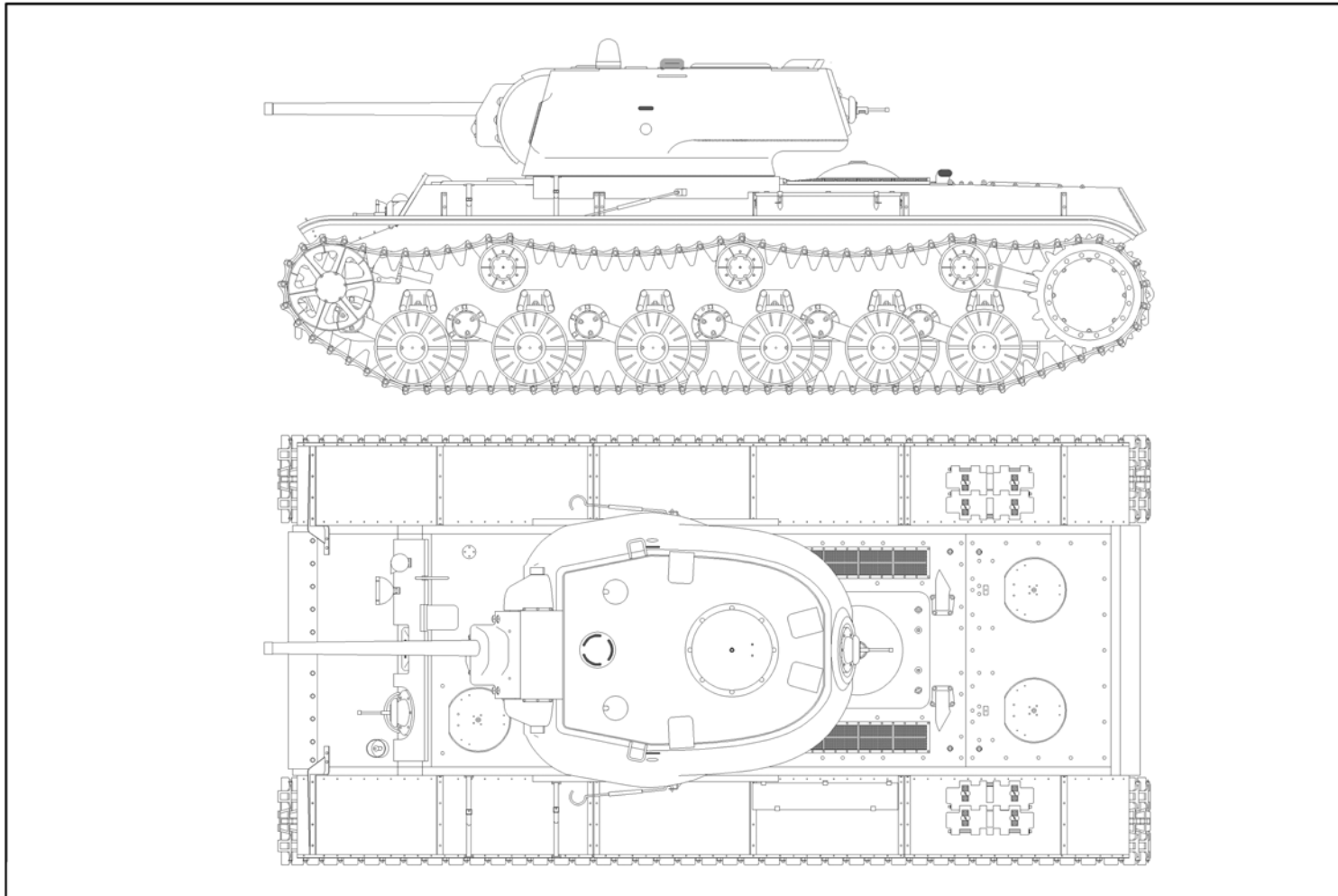
KV-1 Model 1942 w/ Early Cast Turret



Modeling the KV-1 Model 1942 w/ Early Cast Turret

- Hull from Trumpeter KV-1 “Simplified Turret” kit or KV-1 “Lightweight Cast Turret” kit
 - Assemble according to instructions
 - Use domed engine access hatch (w/ vent) or flat hatch
- Turret from Trumpeter KV-1 “Heavy Cast Turret” kit
 - Assemble according to instructions

KV-1 Model 1942 w/ Reinforced Cast Turret

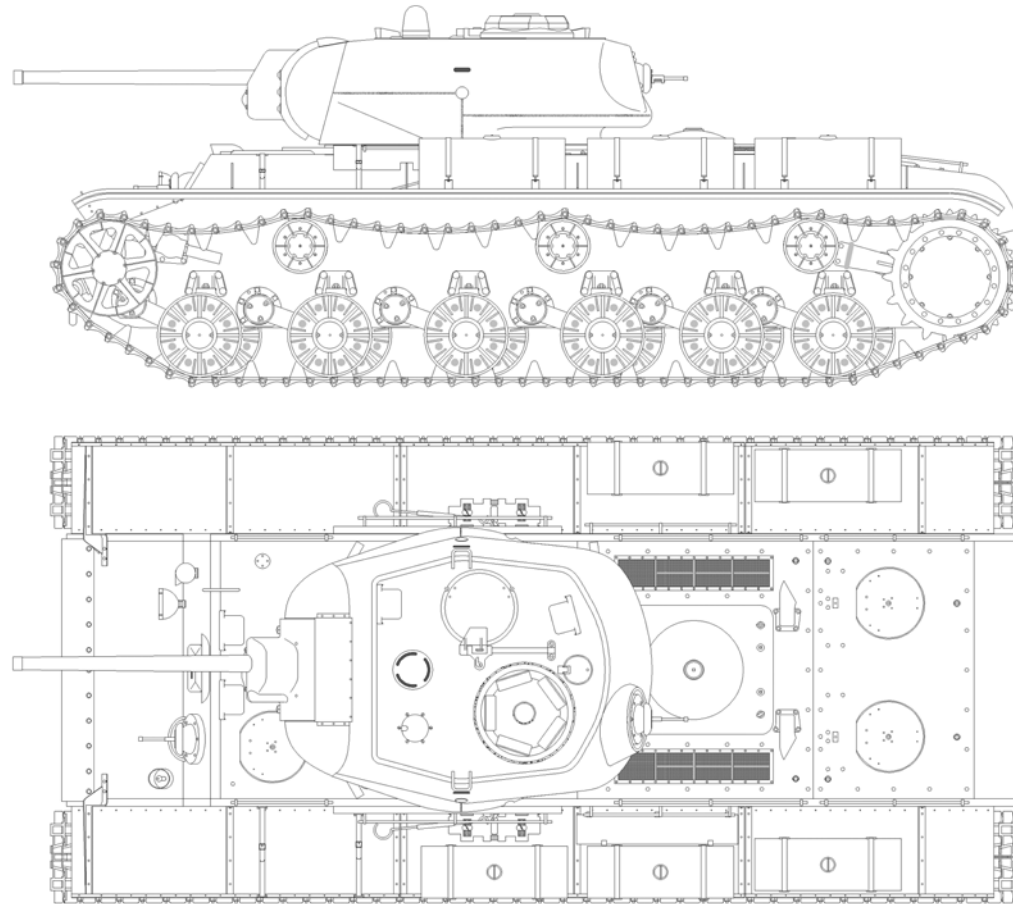


Modeling the KV-1 Model 1942 w/ Reinforced Cast Turret

- Trumpeter KV-1 “Lightweight Cast Turret” kit
 - Assemble according to instructions
- Optionally:
 - Replace tracks w/ Friul ATL-51 or ATL-54
 - Replace roadwheels with Azimut spoked wheels



KV-1S

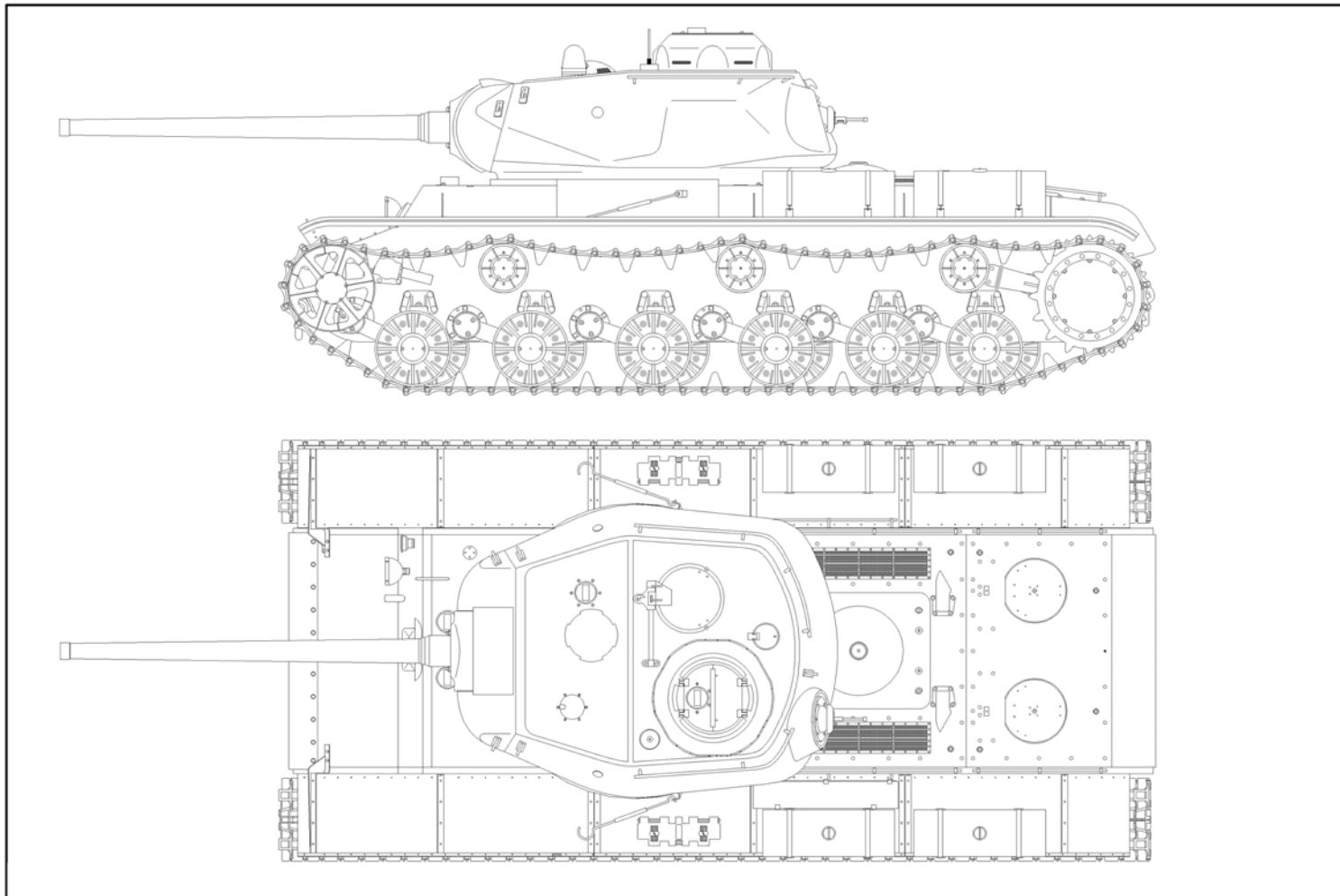


Modeling the KV-1S

- Eastern Express KV-1S kit
 - Replace tracks with Friul ATL-51 or ATL-54
 - Replace engine access hatch w/ Modelling Artisan Mori item
 - Replace radiator intake screens
 - Use Aber or Eduard items
 - Add longitudinal bars
 - Replace lifting eyes
 - Fair turret rear MG mount into turret casting
 - Replace mantlet w/ Modelling Artisan Mori item
 - Replace gun barrel (lots of options)
 - Add grab rails to turret for late production example



KV-85



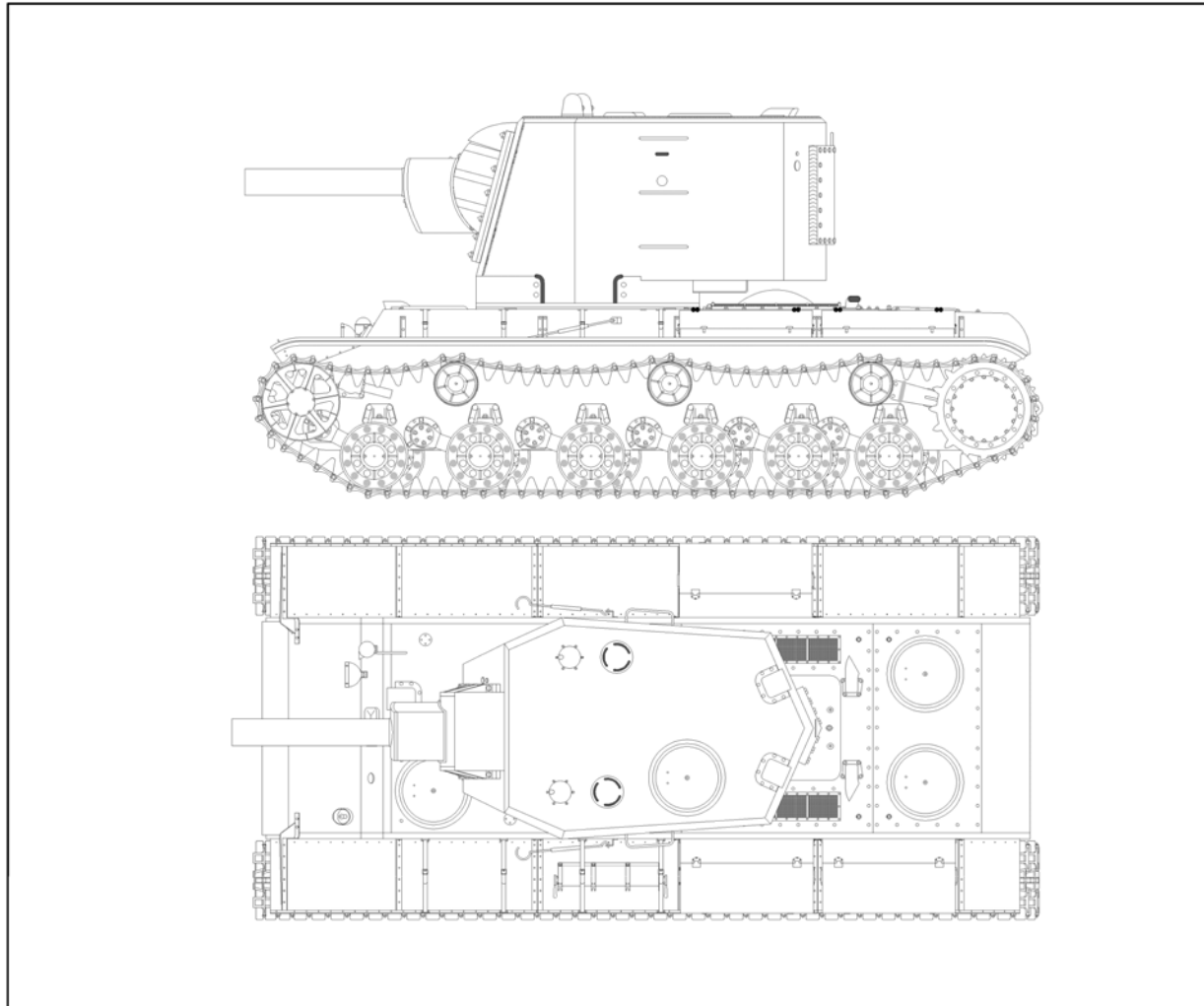
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Modeling the KV-85

- Eastern Express KV-85 kit
 - Replace tracks with Friul ATL-54
 - Replace engine access hatch w/ Modelling Artisan Mori item
 - Replace radiator intake screens
 - Use Aber or Eduard items
 - Add longitudinal bars
 - Replace lifting eyes
 - Add MG mount to driver's front plate (right of driver's visor)
 - Fair turret rear MG mount into turret casting
 - Replace gun barrel & mantlet



KV-2 Model 1939



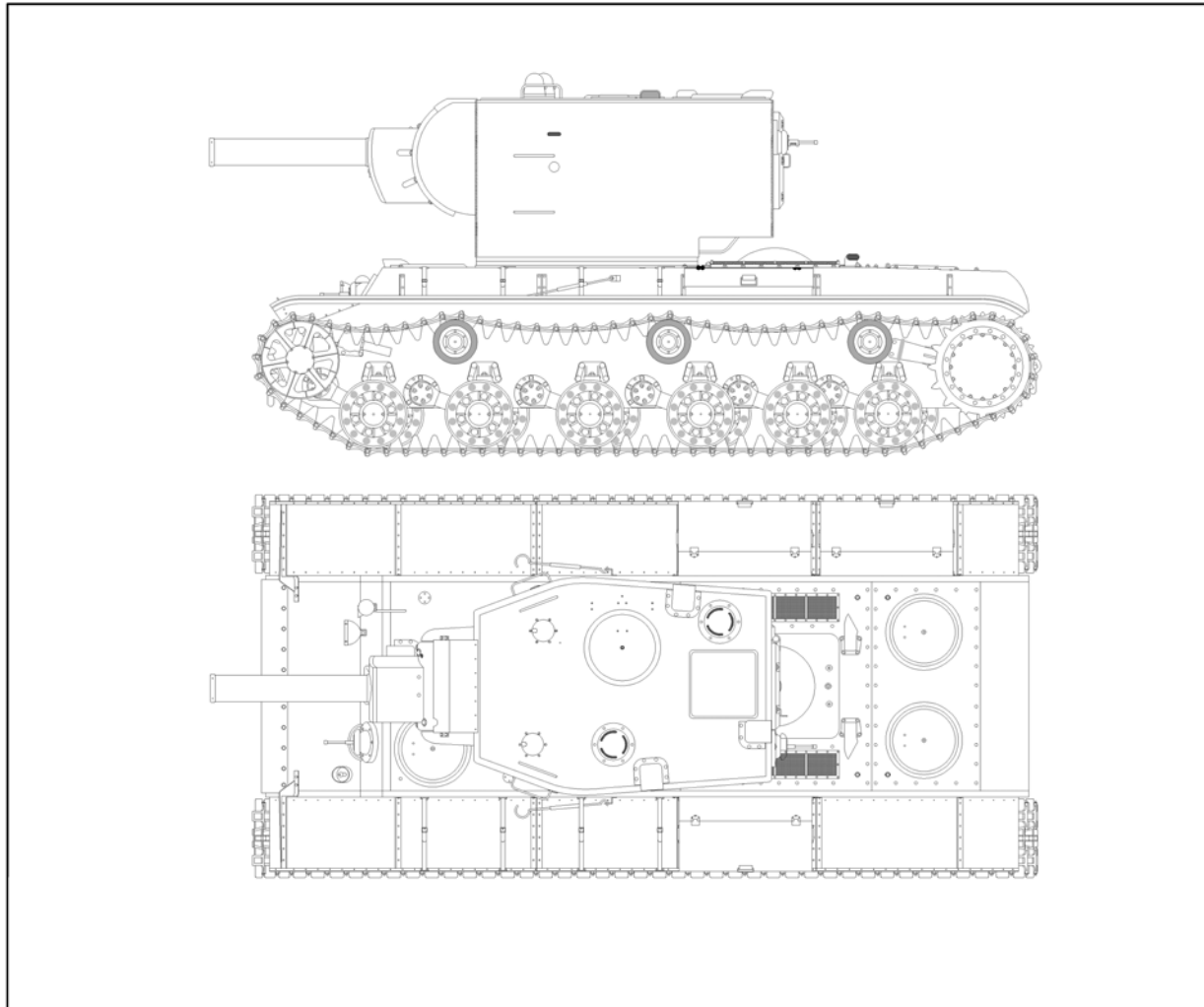
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Modeling the KV-2 Model 1939

- Trumpeter “KV Big Turret” kit
 - Add covers to pistol port and vision port in turret front
 - Replace gun barrel w/ Jordi Rubio item
 - No grooves in barrel
 - No reinforcing ring around muzzle



KV-2 Model 1940



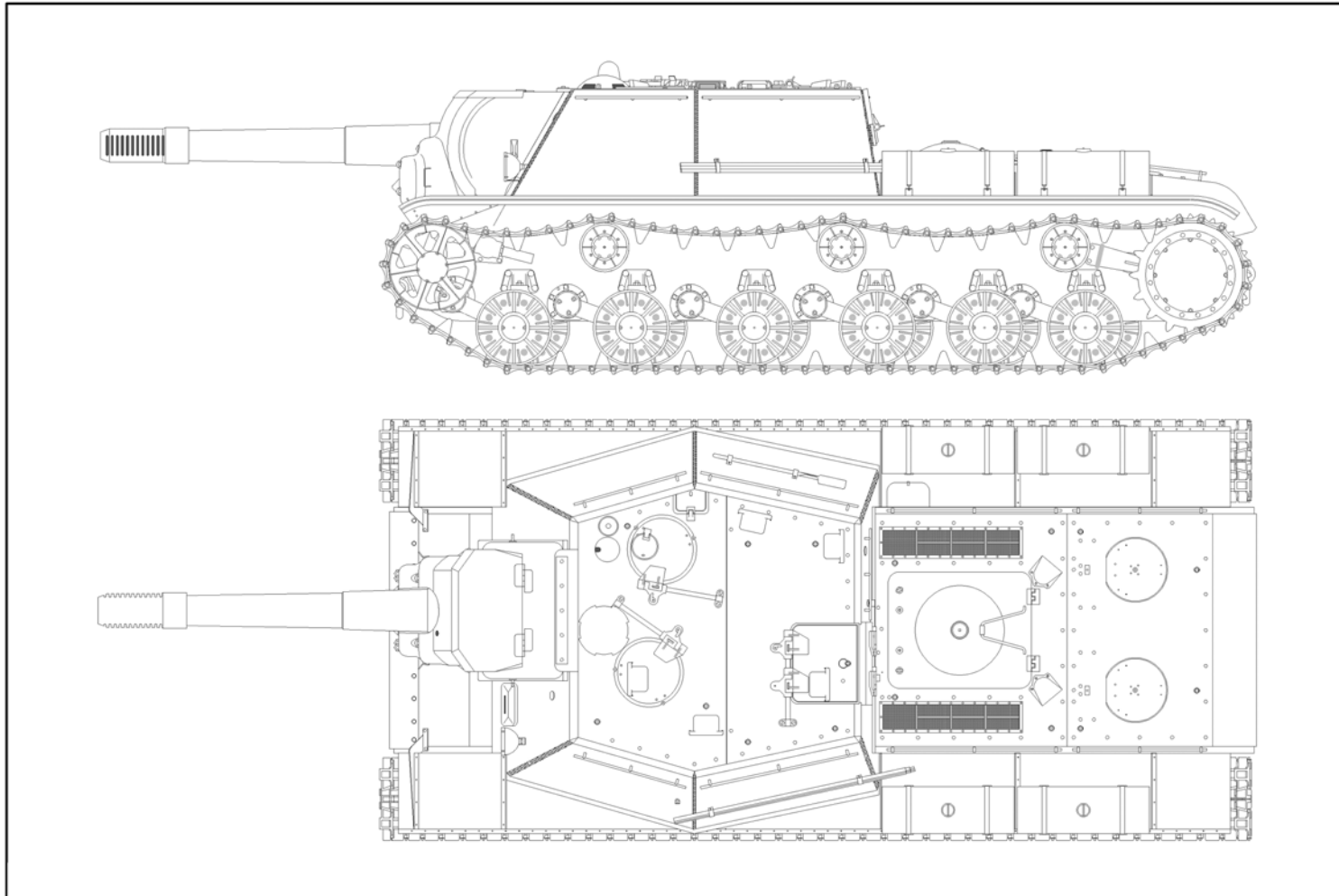
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Modeling the KV-2 Model 1940

- Trumpeter KV-2 kit
 - Final production vehicle (July 1941)
 - Build according to instructions
 - Early production vehicle (Nov 1940 – June 1941)
 - Use early pattern radiator intake screens
 - Sand flat spot in rear hull overhang
 - Replace gun barrel
 - Kit barrel is 3mm too short
 - Take your choice wrt grooves or no grooves
 - Aber & Lion Roar have grooves
 - Jordi Rubio has no grooves



SU-152

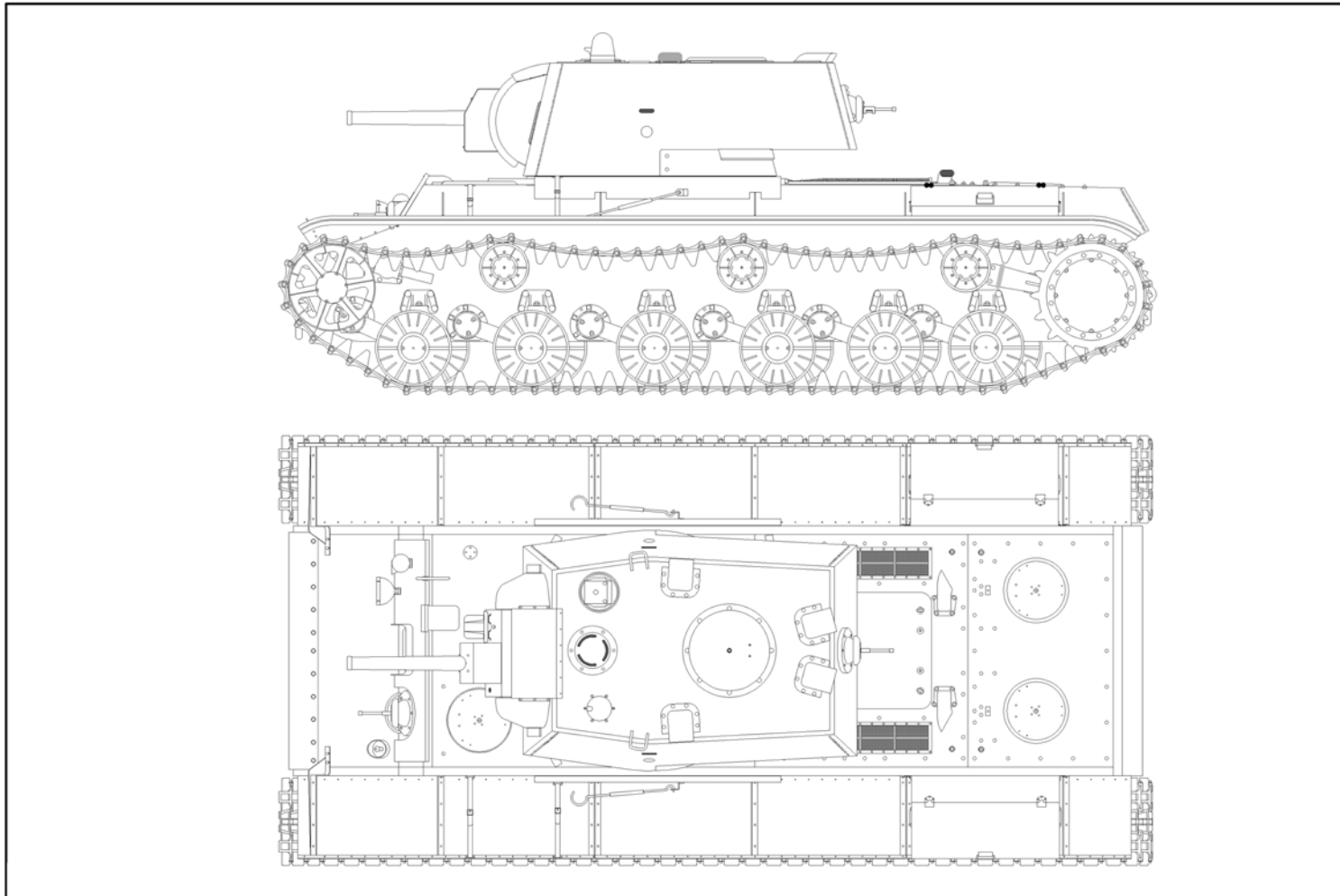


Modeling the SU-152

- Eastern Express KV-14 kit
 - Prototype/early production vehicle
 - Replace tracks with Friul ATL-51 or ATL-54
 - Use wheels w/ small lightening holes
 - Replace engine access hatch w/ Modelling Artisan Mori item
 - Reverse engine access hatch
 - Add handle to hatch
 - Replace radiator intake screens
 - Replace exhausts w/ Moskit items
 - Replace lifting eyes
 - Replace gun barrel (Aber or CMK)
 - Late Production Vehicle
 - Omit tow cable brackets on superstructure sides
 - Add ventilator to superstructure roof



KV-8

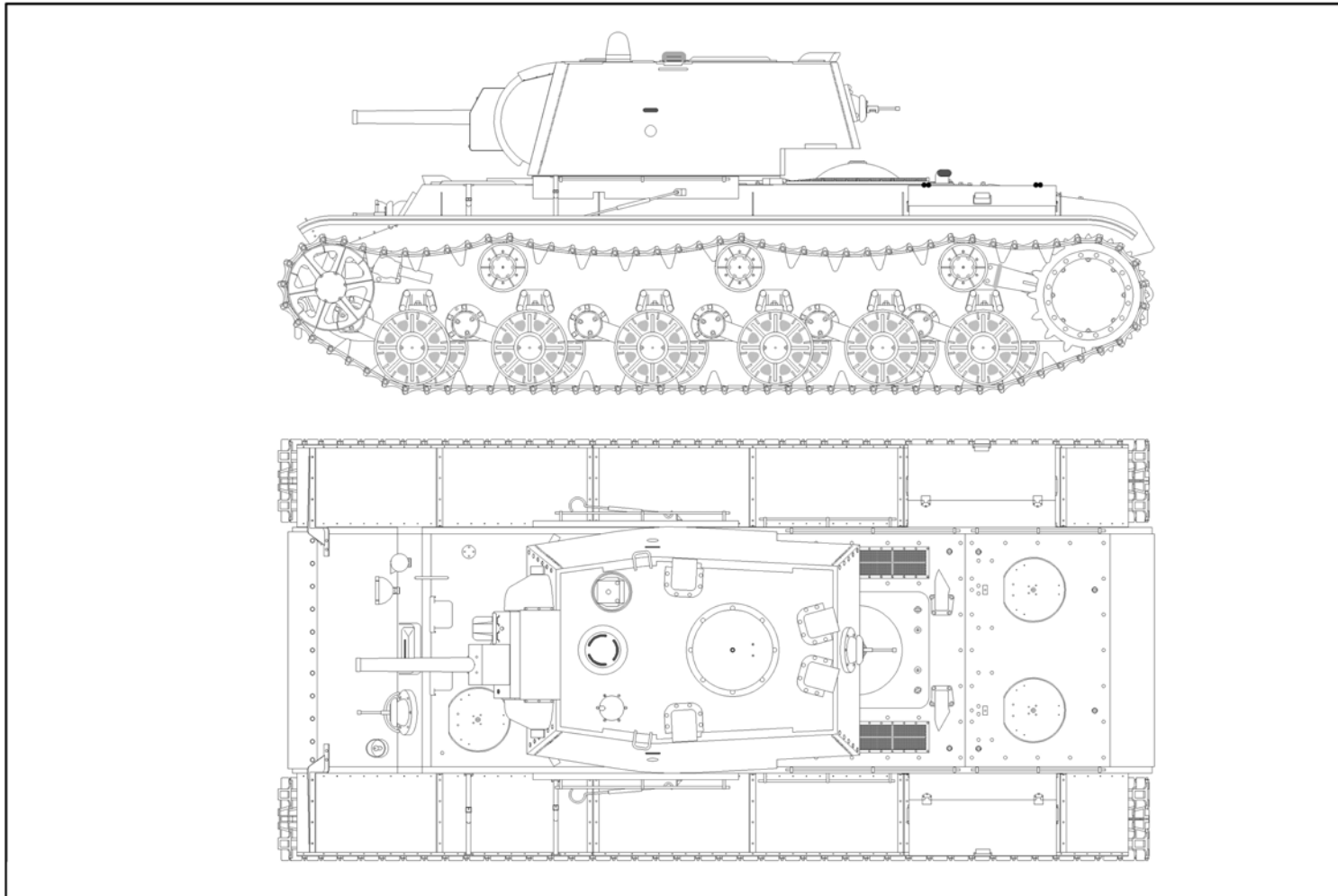


Modeling the KV-8

- Hull from Trumpeter KV-1 “Simplified Turret” kit
 - Replace tracks with Friul ATL-51
 - Add shield around driver’s visor
- Turret from Trumpeter KV-1 “Small Turret” kit
 - Relocate rear-facing episcopes covers to edge of turret roof
- Gun & mantlet from Trumpeter KV-1 “Simplified Turret” kit
 - Replace 45mm barrel with Model Point item



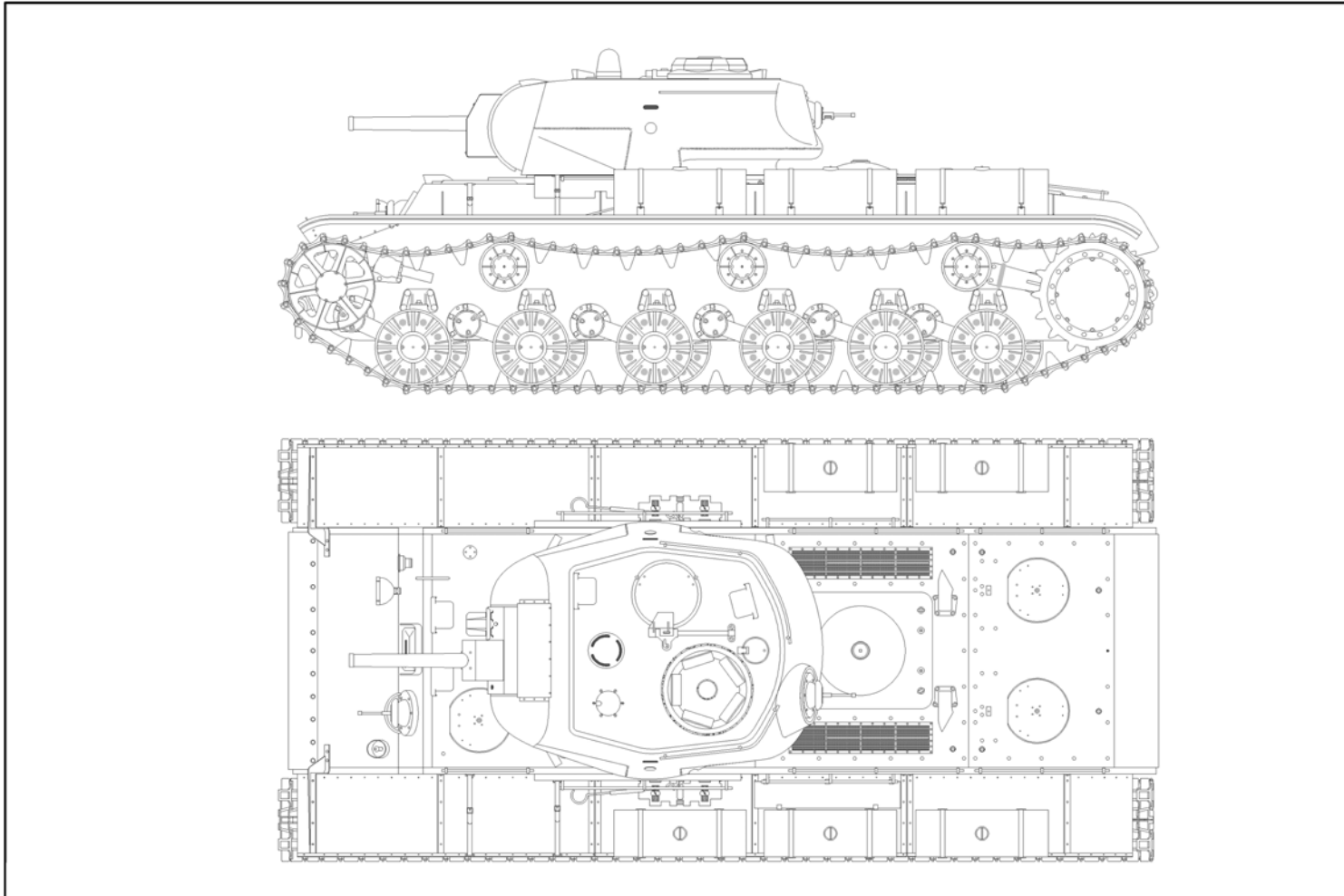
KV-8S w/ Simplified Welded Turret



Modeling the KV-8S w/ Simplified Welded Turret

- Hull from Eastern Express KV-1S or KV-8S kits
 - Replace tracks with Friul ATL-51
 - Add shield around driver's visor
 - Replace engine access hatch w/ Modelling Artisan Mori item
 - Replace radiator intake screens
- Turret from Trumpeter KV-1 "Simplified Turret" kit
- Gun & mantlet from Trumpeter KV-1 "Simplified Turret" kit
 - Replace 45mm barrel with Model Point item

KV-8S w/ KV-1S Turret



Modeling the KV-8S w/ KV-1S Turret

- Eastern Express KV-8S kit
 - Replace tracks with Friul ATL-51
 - Add shield around driver's visor
 - Replace engine access hatch w/ Modelling Artisan Mori item
 - Replace radiator intake screens
 - Replace 45mm barrel with Model Point item

