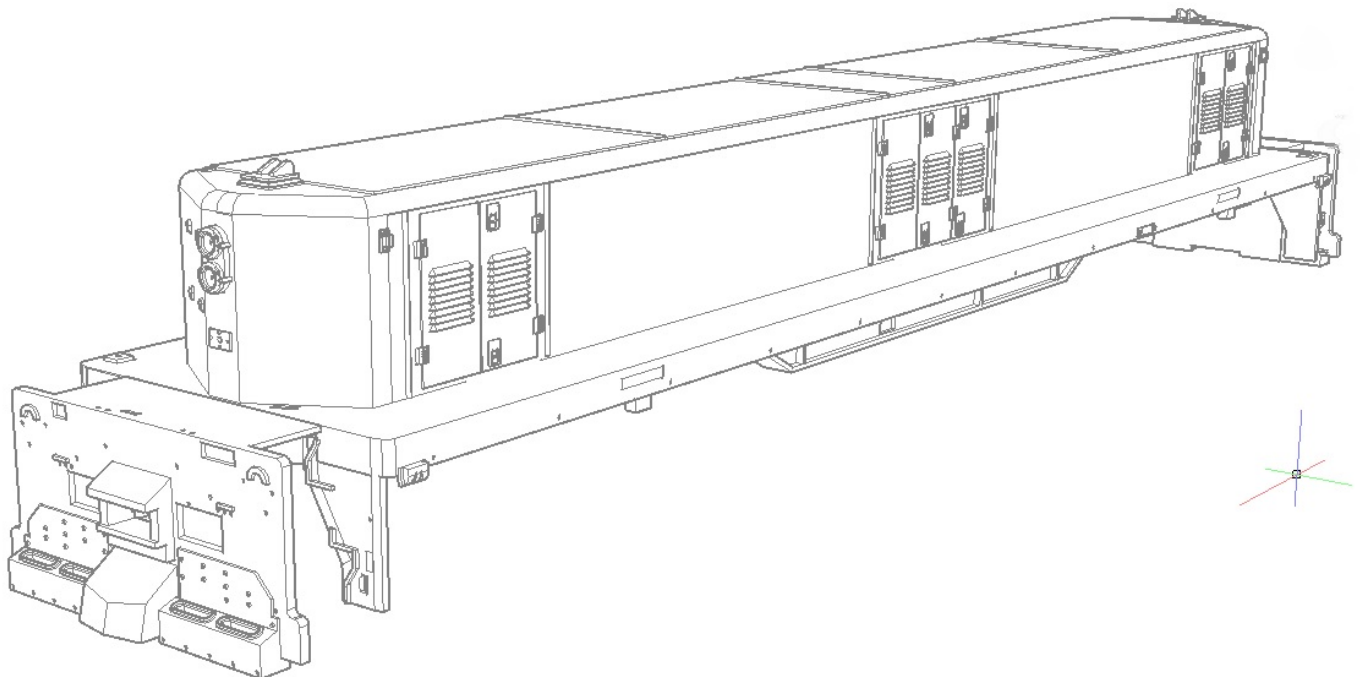


H0 Scale GP9 Locomotive Kit

Assembly Instructions

**This model represents GP9 SLUG, class GY00d (CN# 215-232),
GY00e (CN# 233-241)**

**The SLUG locomotives rebuilt 1986-1987 from GP9 locomotives, Class GR-17
originally built 1955 to 1959**



Parts List

Resin Parts

- 1 GP9 SLUG locomotive body
- 1 Frame
- 1 Electrical connector- large type 1
- 1 Electrical connector- large type 2
- 2 Electrical connector- small
- 1 Air filter
- 1 Air tank- large
- 1 Air tank- small
- 1 Brake wheel assembly

Metal Etched Parts

- 4 Small step assembly- rectangle mesh
- 4 Small step assembly- diamond mesh
- 4 Large step assembly- rectangle mesh
- 4 Large step assembly- diamond mesh
- 2 Drop steps
- 1 Frame component cover
- 4 Anticlimber Step
- 1 Frame component holder
- 1 Brake wheel
- 1 Small air tank assembly 1 of 2
- 1 Small air tank assembly 2 of 2
- 28 Stanchions- long

- 2 Stanchions- long w/ extension- right
- 2 Stanchions- long w/ extension- left
- 8 Stanchions w/ mounting tabs - short

Clear Resin Parts

- Clear cast headlight

Wire Formed Parts

- 6 Grab irons
- 2 Handrails- sides (walkway)
- 4 Handrails- Ends (2-R, 2-L side)

Additional Parts Needed

- MU Hoses
- Trucks
- Sideframes
- LEDs warm white LED for headlight
- 0.1" fiber optic (optional)
- 0.015" Brass wire
- 0.02" Brass wire

Tools Required

- X-acto knife with a sharp #11 Blade
- Tweezers (small Pair)
- Sand Paper (400, 600 Grit)
- Micro drills (55, 69, 70, 75, 76, 79)
- Instant glue- medium viscosity
- Small needle files

Additional Recommended Tools

- Etched metal folding tool
- High precision photo etch cutter

Notes Prior to Assembly:

- 1 Use photos as a reference, you can find plenty of them online
- 2 While installing lightning, it is not recommended to use bulbs (Not even 1.5v bulbs).
Use only LED lights to avoid damaging the resin body which is heat sensitive
- 3 When required, separate each part from the fret with a sharp hobby knife, and use a cutting mat as a base.
Use caution while handling etched metal parts due to their sharp edges.
Be careful not to lose parts
Cut, or file, any stubs remaining from where the parts were attached to the fret.
- 4 A photo etch folding tool is strongly recommended. You'll probably get better results (especially with smaller and complex parts) and will makes the job much easier
- 5 It is recommended to align all parts before gluing them into place in order to make sure they are all in order.
- 6 This kit designed to accept either Atlas or NWSL's Stanton trucks.
Perform a test run before assembly of detail parts.
- 7 When adding weight please note according to the NMRA's standards, The total weight should be 5 ounces.
Initial weight on 1 Oz plus 0.5 Oz per inch of car body length (Body length approximately- 8 inches)

Assembly Instructions

- 1 Remove any “flash” from the casting process. Resin parts can be sanded easily with a #400 (wet/ dry, preferred wet) sanding paper. Before any assembly wash the resin parts thoroughly with soap.
- 2 Use #55 drill to drill holes for headlights
- 3 Use #79 drill to drill holes for total of 4 stanchions on each end, and 12 on each side.
- 4 Use #75 drill to drill holes in front and a rear pilot for handrails, as shown in fig. 1
- 5 Use #78 drill to drill holes for grab irons
- 6 Use 1/64” and #76 drills to drill holes for spare knuckle holder detail, please see fig. 2 for drilling locations
- 7 Cut 2 pieces of 0.24” (approximately 6 mm) from a 0.015” brass wire, and 2 pieces of 0.094” (approximately 2.4 mm) from a 0.02” brass wire for the Knuckle holder detailing
- 8 Use #70 drill to drill hole for hand brake.

Adding Headlight

- 9 If you wish to illuminate the headlights, Step light or walkway light, use LEDs. **Do not use bulbs.** Not even 1.5volt micro bulbs.
End pilot safety light: use a .01” fiber optic to simulate the walkway safety light which can be illuminate from the inside
- 10 Glue in place clear cast headlight, insert from the inside. Some modelers may want to perform this step after painting.

Etched Steps Assembly

- 11 Choose the type of step suited for the specific road number you model (diamond or rectangle mesh) Remove the steps from the fret, both upper and lower pieces. Bend them to shape as shown in fig. 3a, 3b

Installing Grab Irons and Spare Knuckle Holder

- 12 Insert the knuckle housing parts both long and short into drilled holes as shown in fig. 4 and carefully glue in place. Apply glue at the bottom side.
- 13 Install the grab irons (3 on each end, as shown in fig. 5), and glue in place

Stanchion Assembly

14a Stanchion- Front and Rear:

Remove 2 short stanchions with tabs from the fret, bend over the small tabs on the bottom of the stanchion backwards as shown in fig. 6,
Then, remove 2 more stanchions (long type, with no tabs) and glue them in place as shown in fig. 7

Repeat this step and create total of 8 stanchions, 4 for each end.

14b Stanchion- Walkway Sides:

Remove stanchion from the fret, 12 for each side-a total of 24 long type, (with no tabs) and glue them in place as shown in fig. 8

Note: There are 3 types of stanchions for you to choose from (fig. 9)

Final assembly of stanchions and handrails

15 Inspect and assemble the handrails in place as shown in fig. 10

Note: You may want add a micro chain between the two railings for more realistic appearance.

Side railings: please measure and cut the 4 climbing handrails to size, to fit at the middle of the first stanchion of the each end. The first stanchion of each end should hold both the climbing railing and the long handrail. Cut to size at the other end as well.

16 Bend over the stanchion at the upper tab to lock the handrail in place.

17 Remove the dropsteps from the fret. Bend them to shape as shown in fig.11 and glue in place

18 Glue the electrical components to both ends, as shown in fig. 12, 13.

19 Remove the brake wheel from the fret and glue to the housing, glue in place as shown in fig. 14.

Some modelers may want to perform this step after painting

Frame and underframe:

- 20 Remove the small air tank assembly from the fret and shape them the same way as shown in fig. 15a, 15b
Either glue or solder the diagonal stripe at the lower end. Glue them in place as shown in fig. 16
Important! Glue the small air tank on one side only so you can remove the shell from the frame if necessary
- 21 Follow fig. 17a, 17b and form the metal etched parts as shown.
Follow fig. 18 for complete frame and underframe detailing including air tank, air filters and other components.
- 23 install a coupler and glue the cover using a removable glue such as Hob-e-tac™ so you can replace the coupler if necessary.
- 24 Paint the model and let the paint dry overnight.
- 25 Apply decals
- 26 Apply weathering to match you preferences



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