



## NGSK0201 Kit 20a Detailing Parts for Anhydrite Hopper

### Detailing Etch for Kit NGSK0200.

*You will need cyanoacrylate glue (superglue) and paint.*

*The details are best added when building the kit, though they can be added later to an already built kit*

***This is not a toy! It is suitable only for persons over the age of 14. It may contain small parts and sharp edges. Keep away from small children!***

### Getting Started

Read the instructions thoroughly all the way through and be sure you have identified all the parts.

**Sheet Support**

**Upper handrail brackets**

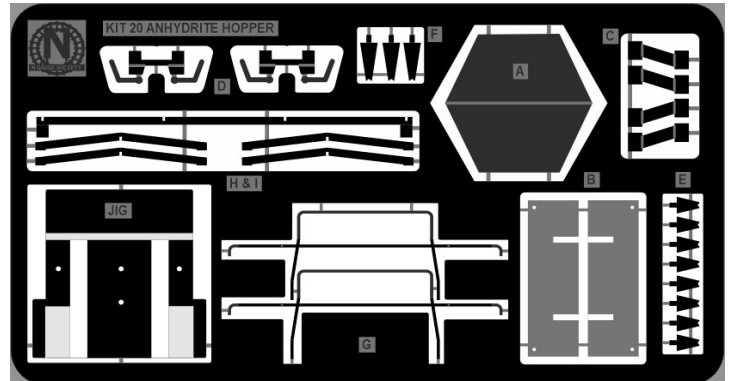
**Handrail. Note how end is welded to wagon side.**

**Footstep**



### Removing Parts from the Fret

Items are best cut from the fret using a scalpel or craft knife, with the etch resting on a hard surface such as aluminium or MDF - not a cutting mat as the etch will distort. After removal clean off any remaining bits of the tags with a small file. Note that when folding etches the half-etched fold line should always be on the inside of the fold.



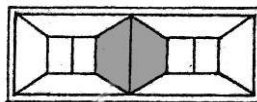
### Drilling holes for Handrails

Remove the end platforms (B) from the etch, clean up and glue in place on top of the chassis at its outer ends. Ensure they are the correct way round with the handrail location holes in over the outer corner of the chassis, and flush with both sides and the outer edge of the buffer beam. Once they are firmly secured in place, drill through the handrail location hole using a 0.35mm drill bit in a pin vice.

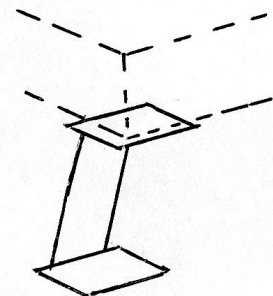
A jig is included to help drill the holes in the end for the handrail brackets, four each end. It is easier to drill these holes before assembling the body of the wagon, but it can be done after building the wagon. If you want a simpler build, you can omit these brackets. Put the jig over one of the ends, so the raised upper lip of the side fits in the half-etched line on the rear of the jig, and with it positioned centrally left/right. The half etched part at the bottom of the jig should locate over the bottom of the side. Using a 0.5 mm drill drill four holes through the holes in the jig.

## Adding the Details

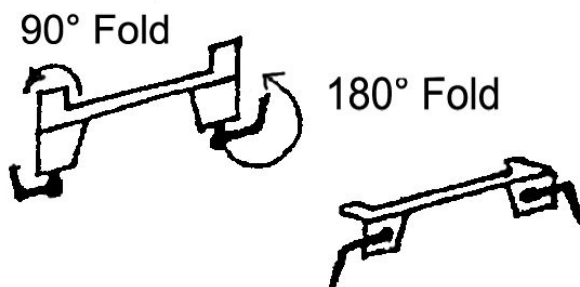
Cut the hopper division plate (A) from the fret, and fold to form an inverted 'V'. Place it in the hopper and adjust until it fits neatly and centrally between the discharge chutes (shown shaded grey on the diagram). When satisfied, glue in position. .



Remove the four chassis footsteps (C) from the etch, clean up and then fold the steps and the upper bracket at right angles to their supports, to create a U shaped piece. Once done, glue a step to each corner of the chassis, so the vertical section angles outwards.

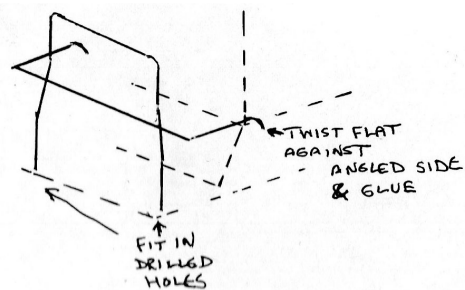


Remove the hopper discharge handles and their support brackets (D) from the etch, clean up and then fold the handles themselves through 180° to rest on top of their supports. Secure with a spot of superglue. Then fold the location lugs at 90° to the handles and their supports and fix to underside of the wagon solebar centrally around the V-hanger.



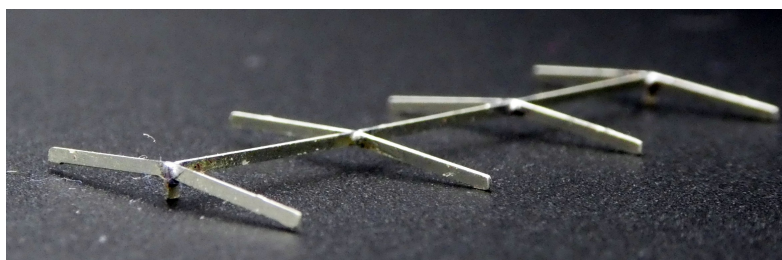
Cut the end handrail support brackets (E and F) from the etch (a few spares are provided). Glue three of the smaller brackets (E) vertically into the three upper holes pre-drilled at each end at each end of the wagon, and a larger bracket (F) into the lower hole.

The handrails themselves (G) may now be cut from the etch, and (very gently) cleaned up. Bend the long rail through a right-angle near each end, where a half-etched line is. The corner can be strengthened with glue or solder. Twist the curved end so it is at the correct angle to fit flush against the angled lower section of the hopper (see photo). Push and glue the bottoms of the rails into the holes at each side of the platform, bending them slightly towards the centre of the wagon. Glue the handrails to the ends of the support brackets (or to the vertical stanchions if brackets were omitted), then glue the curved end of the rails against the angled lower part of the hopper side.



## Sheet Support Rails

Around the start of 1965 it was decided that loaded wagons should have a sheet over the load. All the hoppers were fitted with sheet support rails on top of the hopper. Parts H and I form the sheet support, the four short cross pieces fit into the top of the long rail. Use a small ball of Blu Tack in the centre of the long rail to hold it upright while you add the cross-pieces. Secure with superglue or solder, ensuring the cross pieces are at right angles to the central strut. Glue the whole assembly onto the top of the wagon.



The original sheets were yellow, later black ones were used. Both quickly became light grey because of powder from the anhydrite.

## Painting

Paint the hopper release handles white. The footsteps and the remainder of the hopper release mechanism should be black. The handrails were initially painted bauxite, and were later painted white. The handrail brackets were bauxite. The hopper division plate should match the interior on the wagon - usually a light grey from the anhydrite. The sheet support rails were unpainted steel, they can be left unpainted or given a rust colour.