

# NONNEMINSTRE MODELS

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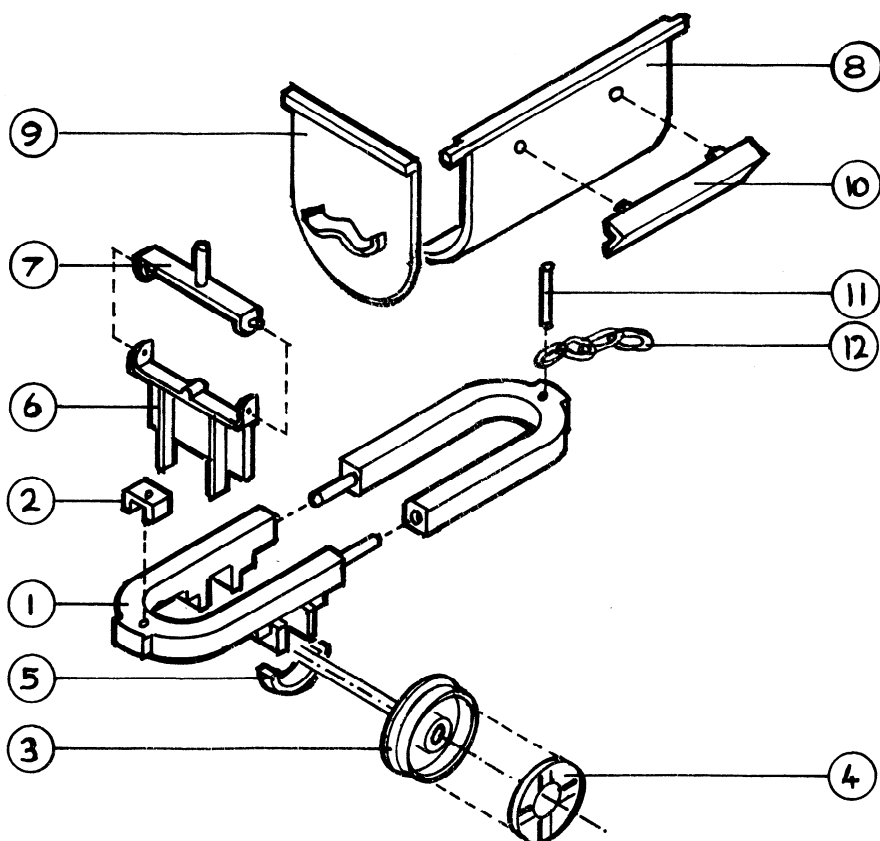
## 7mm narrow gauge / 1:43 / 0:16.5 / 0:14 'U'-TUB WAGON

This kit is based upon a typical 1950's welded 'U'-tub design which developed from rivetted versions used up to WW2. It has been specifically designed for ease of construction and finishing and will tip! They were found in a variety of industries especially where space was tight as the overall width of the wagon is barely more than the width of the wheels. The one used as a prototype for this kit was measured at Geevor Tin Mines in Cornwall, England.

### PARTS LIST

1	½-Frame	x2	7	Lockbar	x2
2	Coupler pocket	x2	8	Bucket side	x2
3	Wheelset	x2	9	Bucket end	x2
4	Wheel insert	x4	10	Angle Bar	x2
5	Axle straps	x4	11	Coupling pin wire	x1
6	Supports	x2	12	Coupling chain	x1

### GENERAL ASSEMBLY



**'U'-TUB WAGON**

CAST WHITEMETAL  
INCLUDES WHEELS

0:16.5

NONNEMINSTRE MODELS  
46 HIDE GARDENS  
RUSTINGTON  
WEST SUSSEX BN16 3NP

Before commencing construction please read right through the instructions and check the parts. A dry run is perfectly feasible but please follow the sequence of construction. Either low-melt solder, twin-pack epoxy adhesive, or superglue can be used – if soldering certain parts are still best fixed with glue. If during construction you damage any parts, don't worry – just send us a note with an sae and we will be pleased to replace free of charge.

**TOOLS REQUIRED:** Normal modeller's hand tools, such as pliers, some medium-cut small files, 1.00 and 1.20mm diameter drills plus a pin-chuck to hold them in. A sheet of finely-squared graph paper is handy to check construction is square as it proceeds, plus a small engineer's square. Fine (280 grade) Wet & Dry paper (used wet) is also useful.

**POST-BUILD CRISIS:** If after any stage you suddenly realise something is askew, don't despair! If you have used epoxy resin adhesive or superglue then dunk the whole thing in some paint stripper for a few hours and it will then fall apart. BUT ANYTHING PLASTIC, SUCH AS WHEEL CENTRE BUSHES, will dissolve!!! Wash well in clean water, clean up then start again. With care you can apply paint stripper over a single glue seam, wait until it softens then gently pull apart. Wash and clean up and you haven't had to dismantle the whole kit. If you've used low-melt solder, place something non-metallic in the bottom of a small saucepan, add one kit plus water to cover well, slowly bring to the boil. A gentle prod in the water and it should fall apart, with luck the solder running into blobs off the job. Remove from heat, cool, clean up

**CONSTRUCTION:** Drill the dimples in the ends of the ½-Frames (1) 1.2mm diameter. Assemble the two ½-frames (1) upside down on a flat surface. Now move onto the bucket. Join an End (9) to a Side (8), keeping dead square. Repeat with the other Side and End and then join the two together. Smooth the joint all round (that's why the Angle Bars (10) are separate to make cleaning up easier!). Drill the two dimples on each side 1.2mm diameter but not all the way through. Add the two Angle Bars (10) after filing down the prongs a bit. Make sure they are square – twiddle the holes a bit until they are if needed.

Back to the frame assembly. Drill the Coupler Pocket (2) 1.00mm diameter, then drill the dimple on the top of the ½-Frame 1.00mm diameter too, but not all the way through. Using a piece of 1.00mm diameter wire to ensure location, attach the coupler pocket to the top of the frame. Remove wire. Repeat other end. Now, using the bucket as a template, fix the two Supports (6) to the frame, filing the prongs as necessary to ensure that they fit well and that the bucket is free to tip without binding. A piece of THIN card inserted between each end of the bucket and the Supports will ensure free-and-easy tipping after painting. With the bucket safely out of the way, drill the top lugs on the Supports 1.00mm diameter. Fit the Lockbar (7) by gently bending outwards and then straightening back when sprung in place. Check with the bucket in place that they pivot up and down ok.

Almost there! Fit the Wheel Inserts (4) if desired into the wheelsets (3) – a drop of superglue will secure. Check that the wheelsets run freely in the chassis – ease the axle slots as necessary until the wagon rolls freely. PAINT THE CHASSIS AT THIS STAGE. Fit the wheelsets, then glue the Axle Keeps (5) in position – file for a good fit and scrape a bit of paint off the chassis to ensure a good bond. Cut a piece of 1.00mm diameter wire to act as a coupler pin (project about 1.5mm above the top of the pocket) and then use 4 or more links of the chain provided to couple – make sure you can link onto your chosen motive power. And remember that the bucket tips as per the prototype!

**14mm GAUGE:** File the axle box projections on the ½-Frames back flush with the side, press in one wheel to give 12mm back-to-back, check for free running (file as necessary – it's a bit tight!) trim the end of the axle flush. 'Nuff said!