



MKD4 DOGFISH Instructions

1. Take sides/ends (A) and fold to shape (drw1), next take the two side-end assemblies and solder together to form hopper body. (drw 2).
2. Take solebars (B) and fold to L shape, so that the half etch detail forms the long part of the L shape and the full etch forms the base of the L shape. Therefore fold along the joint between half and full etch see plan. Then take chassis (C), push out rivet detail on buffer beams. Now fold up bottom lip on buffer beam then fold buffer beam thru 90 deg. Also fold hopper bottom sides through 90 deg. (drw 2).
3. Next solder solebars to chassis (C) between buffer beams and up against hopper bottom sides. (drw 2).
4. Now fold inner chassis members up to form \subset section channel.
5. Next fit hopper body into chassis assy. The tabs (X) fit into the slots (X) with the base end of the hopper body resting on the chassis. (drw 2).
6. Now take side stanchions (D) these fit into slots (Y) on body sides, when fitted add plates (E) to body side, these fit to half etched slots in sides and fit over top of stanchions (D). (See photos and drw 2/3/4).
7. Now take end stanchions (G) 4 of and fit into slots (Z) on hopper ends. (Drw 2/3).
8. Next take end stanchions (F) and fold to shape, which fit into the half-etched recesses at outside edges of body. (drw 2/3).
9. Now solder outer end stanchions (M) fold to shape (2 of, note that they are handed) from hopper body to chassis at deep end of hopper body. (drw 3/5).
- 9a. At this stage you can fit the discharge floor assy. Fold up floor etch to shape to match the profile piece supplied (side a to side a). This then fits into bottom of hopper body also noting which way round see drawing 5.

10. Next take vac cylinder support (T) fold up and fit vac cylinder casting then fit to chassis behind the above stanchions as shown in step 9. (drw 3/5)

11. Take the other end stanchion (H) bend outside parts through 90 degrees. Then solder part (J) to part (H) so that the central hole aligns then take complete assembly and fit to hopper end, shallow end to hopper body. (drw 4).

12. Take 0.7mm brass wire and fit through holes in part (J) and angle wire down to hopper bottom plates. (See drawing 4).

13. Now fit hand wheels (P) to wire ends.

14. Bend up to shape the hand rail support stanchion (L). , and fit to wagon end. (The same end as the hand wheels). Add 0.7mm wire handrail as per (drw 4/5) also add the other two handrails which go at this end of the wagon, (see drw 4/5) which are also made from .7mm wire.

15. Now bend up the step assy. (U) and fit to sole bars at the wagon end that has the control handles.

16. Also bend up and add to solebars the consignment clips (S), these go at the L/H end of the solebars see photos for position. (drw 5)

17. Next add the buffer castings to the buffer beams and also the lamp brackets (R) which fits into the slot on the buffer beams.

18. Now take the hand brake wheel supports (N) drill a 0.7mm hole at the pointed end and fit these to the solebar from the inside at the other end to the steps, (for positioning see photos and drawing). Now pass a length of 0.7mm through holes and attach to end of wires the hand brake wheels (P). (see drw 3/5).

19. Fit the wheel sets to the axle box castings, remembering to fit the top hat bearing. The axle boxes go inside the solebars aligning them to the rivet detail on the solebars. Check all is square and all the wheels touch when placed on a flat surface.

20. Next make up the brake shoes, cross ties and brake links as per drawing 6. You will need to make from bits of scrap etch small platforms to mount the brake shoes on see drawing (6).

21. Finally add the coupling hook and chain.

PAINTING.

The hopper bodies and strapping were olive green with white hand wheels; the rest of the wagon was black.

RUNNING Nos. to lot builds.

DIA 1/587 BALLAST WAGON DOGFISH.

Lot 2819	DB992711-992858	lot numbers in bold type are
2820	DB992859-993058	covered by the MKD4 kit
2821	DB993059-993148	
2822	DB993149-993309	
2823	DB993310-993470	
2824	DB993471-993507	
2939	DB983000-983309	
3255	DB993567-993634)	Built at Shildon with
3329	DB983577-983626)	roller bearing axle box
3340	DB983897-983920)	and oleo buffers (142 wagons in total)

Castings Parts List MKD4 Dogfish.

Axlebox x 4	DW7	Buffer x 4	DW8
Brake Shoe x 8	DW9	Brake Rig x 4	DW10
Brake Link x 2	DW11	Vac Pipe x 2	DW12
Detail Set x 2	DW16	Vac Cylinder x 1	DW13

Items needed to complete this kit

Wheels Slaters 7122 c/w bearings or the New Welcome Turned Steel Wheels c/w ball races. ABS Sprung buffers and Malbut transfers
These are all obtainable from M&M Models. www.modelrailwaywagons.co.uk

Ref. Books

British Railways Wagons the First half million
By Don Rowan
ISBN 07529 03780

British railways Goods wagons in Colour
By Robert Hendry
ISBN 1 85780 03780

British Railway wagons, opens and hoppers
By G. Gamble
ISBN 1 1900298 06 6

British Railway Wagons No.1, Open & Hoppers
ISBN 1900298 015

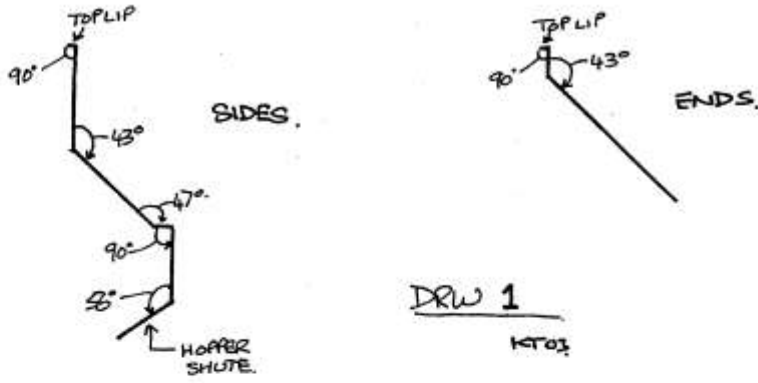
Web Reference <http://paulbartlett.zenfolio.com/brdogfish/h25c3b6e3#h3595a18e>



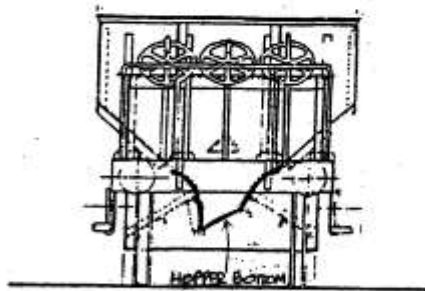
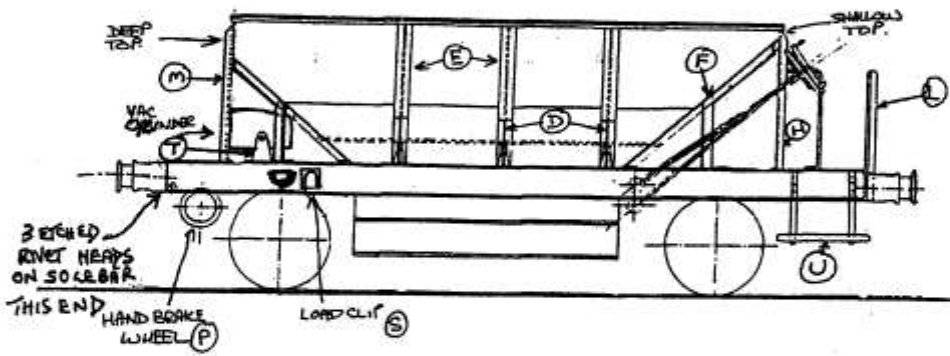
The above picture is provided by kind permission of Bob Dutta.

DOG FISH.

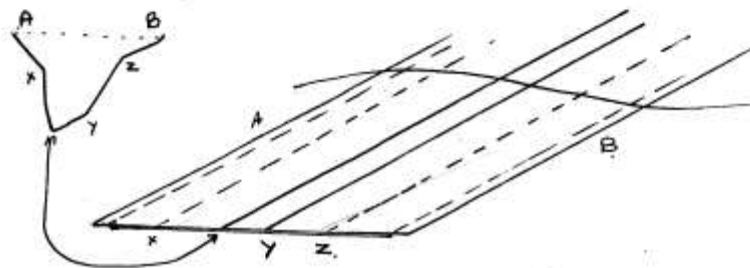
BODY SIDE / END BENDING.



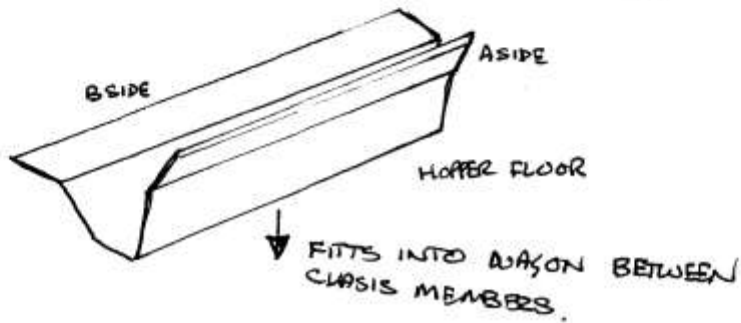
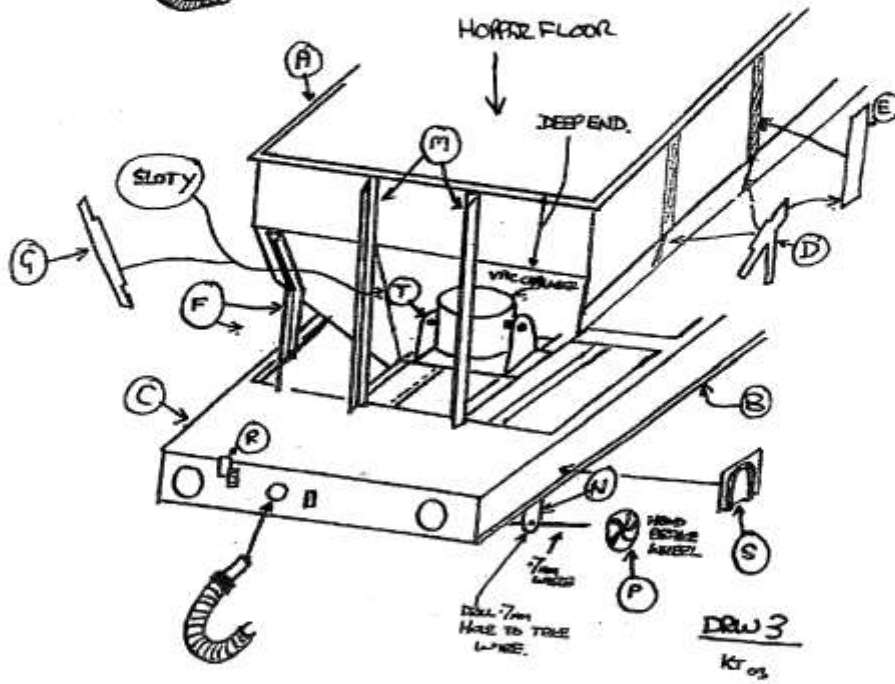
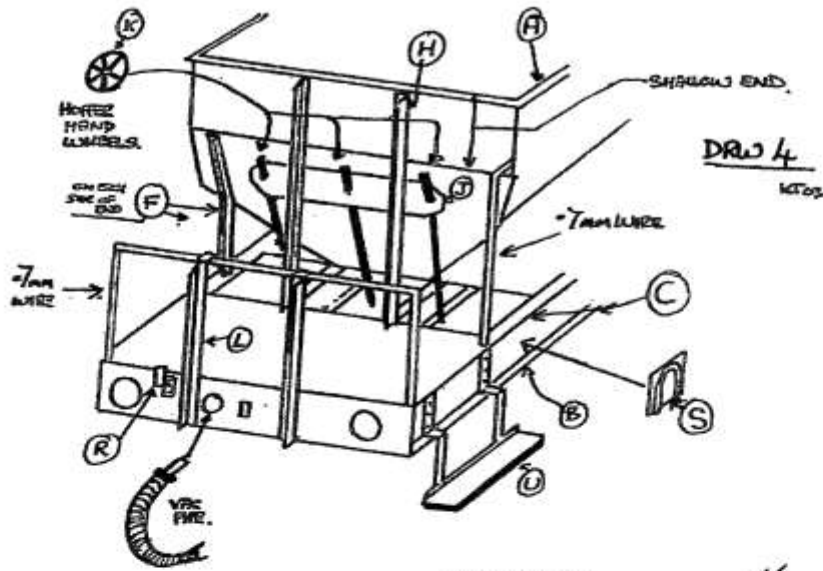
DRW 1
KOTOS



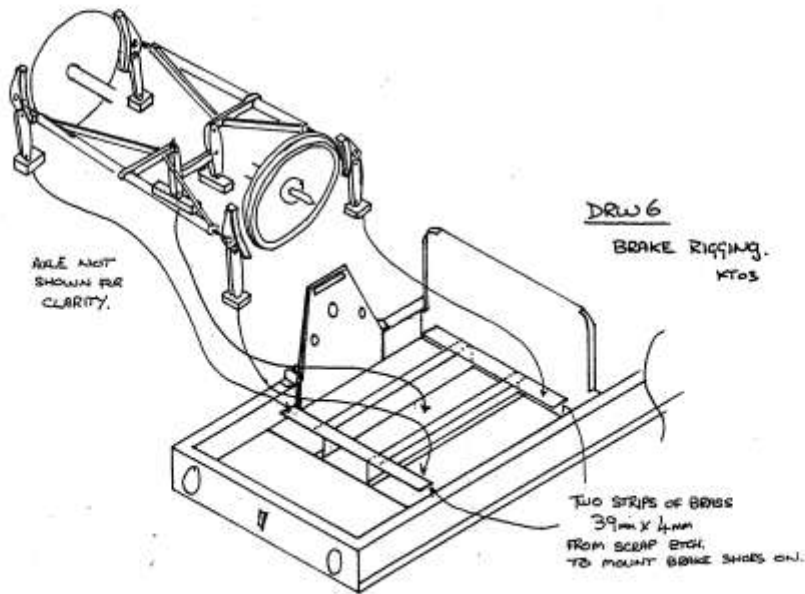
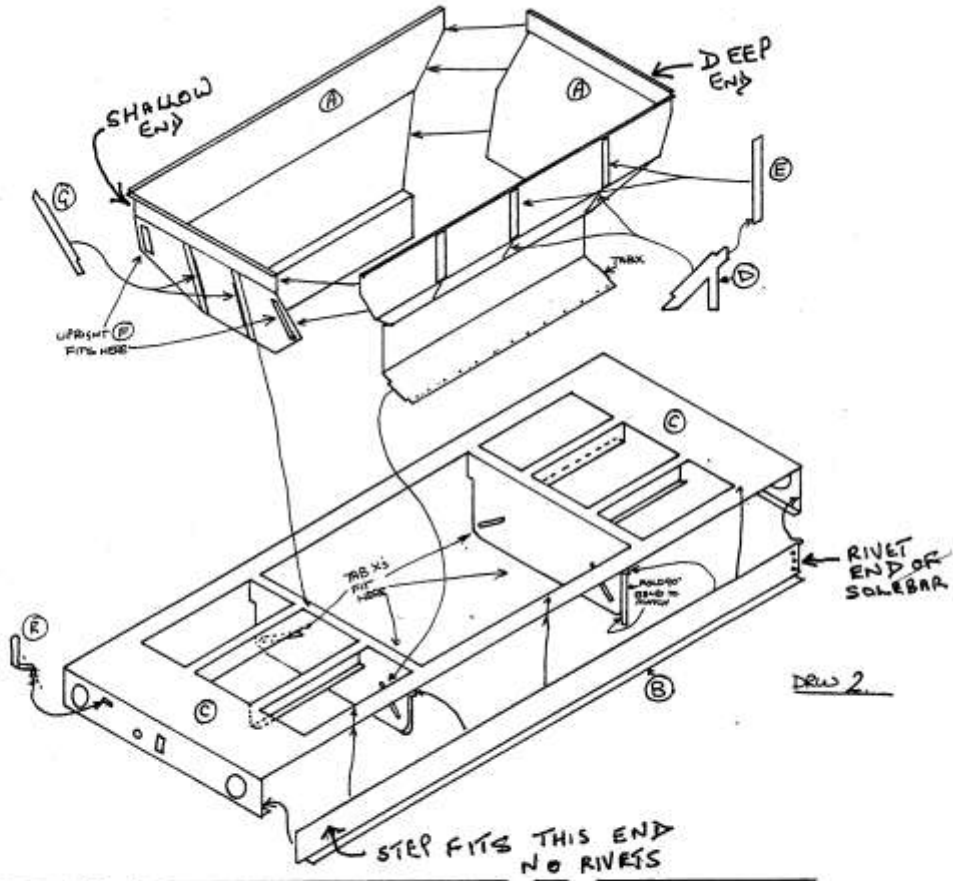
DRW 5



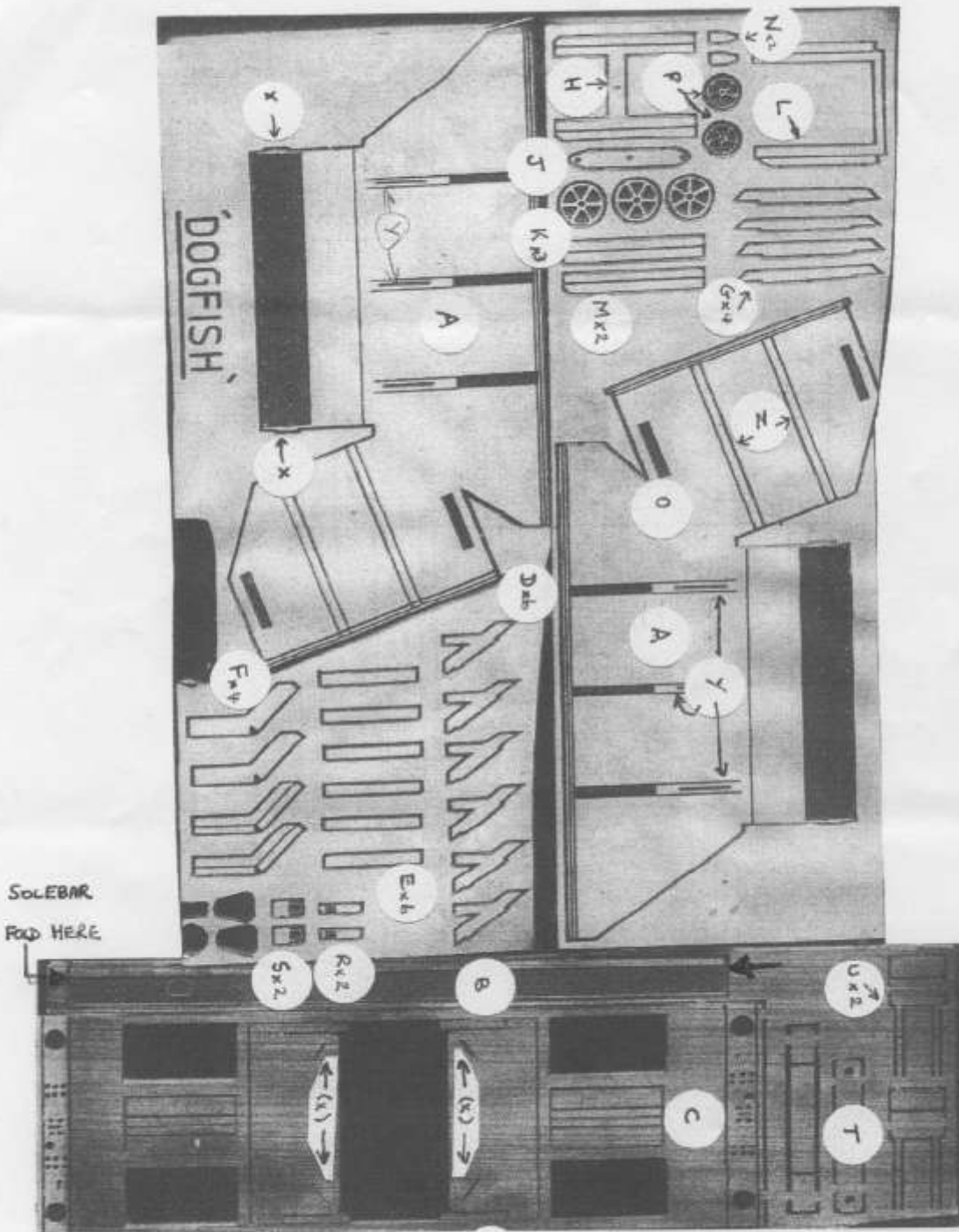
DOG FISH



DOG FISH



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NB : On the later kit etch which is flat packed. There are certain parts which are not required for this kit. These should be marked with a **red cross**.

Dogfish / Catfish Castings



Axle Box x 4

DW 7



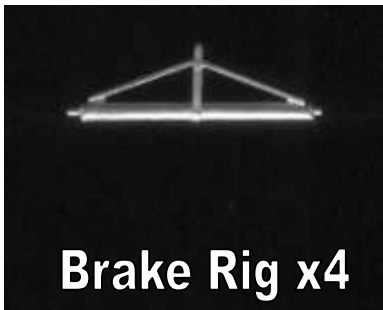
Brake Shoe x 8

DW 9



Detail Set x2

DW 16



Brake Rig x4

DW 10



Brake Link x2

DW 11



Buffer x4

DW 8



Vac Cylinder x1

DW 13



Vac Pipe x2

DW 12