

Ruston & Hornsby 27-32

MERIDIAN MODELS

124, BLACKHEATH HILL,
GREENWICH, LONDON, S.E.10.

BEFORE YOU BEGIN

Read and study thoroughly both the instructions and the recommended stages of building, using the list and diagram of the parts. DO NOT, at this stage, remove any of the brass parts from the fret. This kit is best soldered together, using only low-melt solder on the white metal parts. Five minute epoxy resins may be used also, taking care not to cover any fine details. Carr's Modelling Products offer a range of solders and fluxes for all types of metal and are highly recommended.

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Minitrix D-6-0 chassis, the modifications to this unit are shown in detail below. When disassembled, keep the motor unit apart from fixing bolts and screws.

As bought, the outer wheels of axles nos. 1 & 3 are of a larger diameter than the centre pair. If you have, or can acquire, a second spare axle, mount the small wheels on the driven axle no.3; this gives nearer scale diameter wheels than larger wheels used. Refer to stage 5 for further details. The copper wiper from axle no.1 is bent and sprung to the relocated wheels.

Trial fit chassis to part 'L' to check for level and test run.

BODY ASSEMBLY NOTES:

- STAGE 1 Affix 10 B.A., nut checking the fit of radiator tower 'H'.
- STAGE 2 Assemble in order, 'M', 'N' and 'O', ease out the fuel tank mounting cut out as required, tank filler on top!
- STAGE 3 Cut out cab/frame from fret, bend to shape, start with the small return on the driver's side.
- STAGE 4 Trial fit cab to bonnet unit, making sure of a square fit in both plan and elevation. Use a flat surface and square to ensure.
- STAGE 5 Determine front and rear buffer beam and affix accordingly parts 'P' (rear) and 'R' (front). Part 'Q' with cast ledge aligns the rear of the chassis. Note: Ledge is near top edge. Axle box casting fits into the angle formed by the etch and cast frame members.
- STAGE 6 009 couplers 'Y' - Trim mounting peg and affix to buffer beams. Choppers clear holes in casting and hook with no.72 drill or metric equivalent. Hole in chopper hook must provide a loose fit. Cut off pin and secure. Affix to buffer beams.

PAINTING

Ruston Locomotives of this type and era - 1930 to 1940 - were factory painted in green (Dulux 'Orchard' approximates), with black for frames and buffing/coupling gear. Individual customers sometimes specified their own liveries. Early Rustons were lined out in good panelling.

FURTHER REFERENCES

Eric Tonk's book 'RUSTON AND HORNSBY LOCOMOTIVES', published by The Industrial Railway Society, is almost essential reading. Many photos of Rustons are to be found in the publications of the Narrow Gauge Railway Society.

Chassis details.

Remove all shaded areas

tapping drilled through chassis and keep: $\gamma/16$ dia.

bend or replace with part 'D'

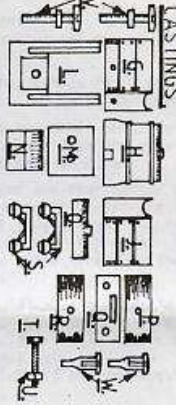
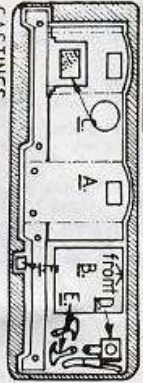
CHASSIS [standard]

CHASSIS [modified]

Instructions.

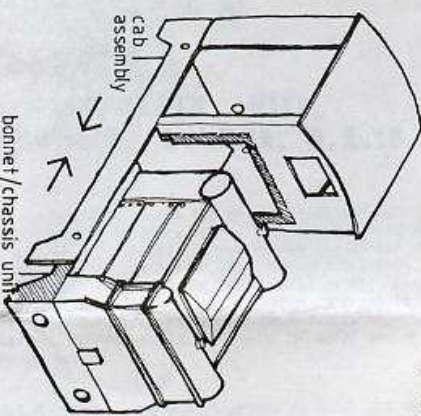
- A. Take chassis apart.
- B. Refix keep and drill out tapped hole for body fixing bolt. ($1/16$ dia)
- C. Alter chassis block as shown in detail above
- D. Remove insulated wheel from axle ① take off brass sleeve and replace wheel match gauge to axle ③
- E. Reassemble as shown do not use axle ② and gear ④ Bend pickup as shown or use part 'D'

BRASS FRET

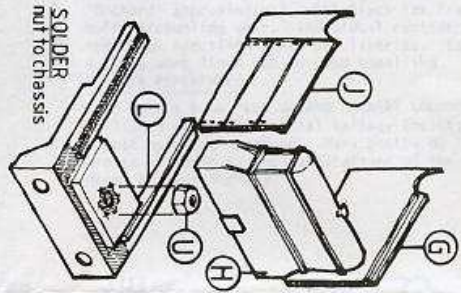


List of parts.

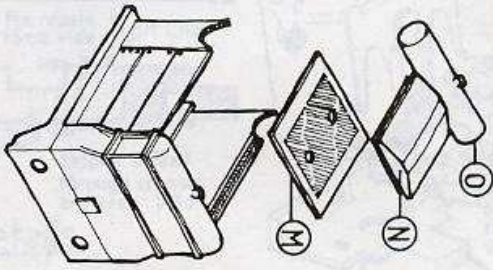
- Brass fret:**
 A - Cab & chassis sides.
 B - Cab roof (mark front edge before cutting off)
 C - Radiator grille.
 D - Pick up.
 E - Chopper hooks - 2
 F - Ruston plate.
 G - LH Bonnet side.
 H - Radiator block.
 I - RH Bonnet side.
 J - Chassis.
 K - Bonnet top.
 L - LH Bonnet side.
 M - Radiator block.
 N - Air vent.
 O - Fuel tank.
 P - Rear buffer.
 Q - Backplate.
 R - Front buffer.
 S - Chassis sides (2)
 T - 10 BA bolt.
 U - 10 BA nut.
 V - 009 coupling (2)
 W - Chopper coupling (2)



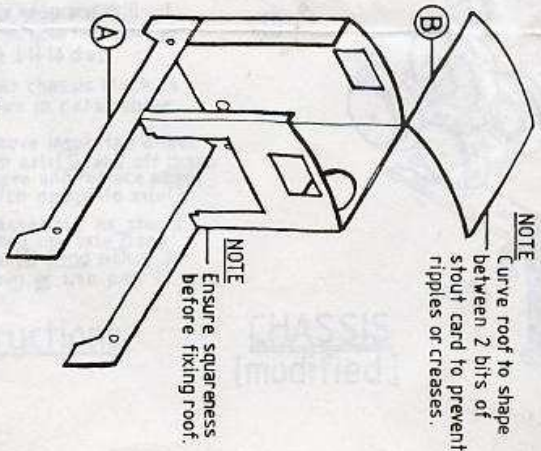
stage 4



stage 1



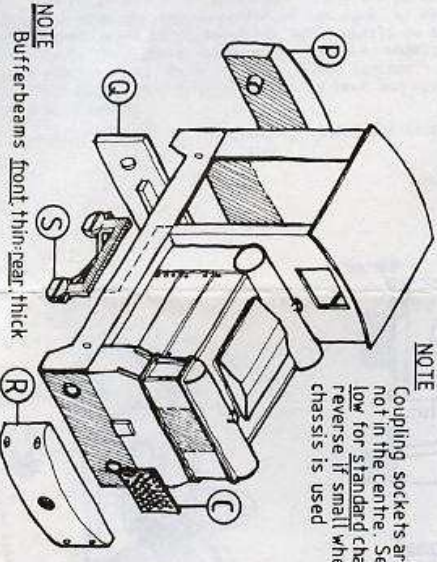
stage 2



stage 3

NOTE
 Curve roof to shape between 2 bits of stout card to prevent ripples or creases.

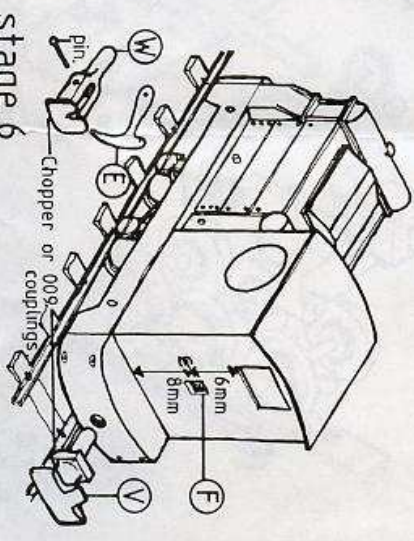
NOTE
 Ensure squareness before fixing roof.



stage 5

NOTE
 Coupling sockets are not in the centre. Set low for standard chassis, reverse if small wheel chassis is used

NOTE
 Bufferbeams front thin rear thick



stage 6

pin.
chopper or 009 couplings.
6mm
8mm
F
V
W