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the slots in the footplate and solder frames in place below the cab approx. 3 mm from the edge of the footplate. Make up and fit the buffers and vac pipe. Complete the loco by adding smokebox door, boiler fittings and handrails. Glue the axle boxes to the rearframes or use low melt solder.

### CHASSIS CONSTRUCTION (Cont)

Solder the brass rod supplied into the sides of the cylinders, these solder into the holes left by the removal of the front spacer screws. Solder in place the slide bars (square section wire) and trim to length. Solder the slide bar support into the slots in the frames. Solder together the two halves of the connecting rods and fold up the crossheads. Join con-rod and crosshead with 16 BA nut and bolt. Finally solder piston rod to crosshead and fit assembly to chassis. Complete chassis with brakes and rigging made up from brass wire. Fold up front bogie and either elongate the hole in the center for fixing or make up a plate with a swinging arm from scrap nickel silver.

### SUGGESTED TENDER CONSTRUCTION.

I suggest working from the footplate down to begin with. So take the chassis frames and tack solder together drill for frame spacers and open out the holes for the axle bearings. Separate the frames and continue as for loco chassis assembly. Fit brakes and rigging with brass wire. Bend up and solder guard irons in place. Next scribe a center line on the underside of the tender floor, mark where frame spacers come and drill for retaining screws. Solder nuts in place on top side slots may have to be cut in the floor to clear the overscale flanges this best done now. Next solder the valance overlays to the valances and solder these to the tender floor approx 1 mm in from the edge. Solder buffer beam and drawbar in place. Make up steps and solder in place followed by the frames approx 3 mm from the edge. Next take the sides and rear, and solder the strengtheners inside, the bottoms should be level, with the locating tags only protruding. The smaller of the three holes in the strengtheners should be at the front, leave a gap for the radius of the corners. Fold to shape using tender top as a guide. Bend tender top along  $\frac{1}{2}$  etched line approx  $20^{\circ}$ . Solder level part of tender top in place. Next solder front in place and then solder coal chute level with the bottom of the opening. Solder coal chute lip to tender front and the shelf on top. It is best to fit rear steps and water filler now.

Form the flare at the top and fillet the corners with solder, file to shape. Solder assembly to tender floor. Fold up the tender footplate and solder in place with the brake standard. Fit handrails and safety gates with brass wire using tabs for hinges. Fix axleboxes in places and complete tender with coal rails, vac pipe and buffers.

\* This is a deadscale model and due to the close proximity of the driving wheels, overscale flanges must be avoided.