

- 2) *Without moving the cylinders, remove the M2 nut (77) from the front fixing screw in the chassis assembly. Fit it and the other M2 nut (78) in the cut-outs in the front and rear of the running plate. Fit the footplate to the chassis using the long M2 screw (58) at the front and the remaining M2 screw (74) at the rear, and check the clearance around the wheels, removing any metal if necessary. Add the boiler/smokebox and check again. When satisfied, remove from the frames and separate the castings.*
- 3) *Drill and fit parts (79 x 2) and (80 x 2) to weight shaft (81). Now fix these on to the footplate. Assemble the boiler/smokebox, front spectacle plate (82) and choice of cab side (83 x 2) or (84 x 2) on to the footplate, noting that the rear edge of the bunker should be immediately above the rear buffer beam. Fix chimney (85) to smoke box ensuring that it is vertical. Drill out dome (86) for plumbing if required, and fix to the boiler, again checking that it is vertical. Add dome steps (87 x 2) if required. Drill top of safety valve base (88) 1.2mm to accept safety valves. If manifold handwheel is to be fitted, drill hole at front 0.4mm and fix in place a short piece of thin wire otherwise fill hole. Fix safety valve base to boiler, using two layers of paper to space it away from the cab front. Add choice of "bottles" (89 x 2) or short (90 x 2) safety valves. Fix tank fillers (91 x 2) to top of tanks, and large toolbox (92) if required. add etched manifold handwheel (93) if required.*
- 4) *Fit boiler clacks (94 x 2) in place, and check the fit of the pipes, adjusting as necessary. When satisfied, solder or glue clacks to boiler. If front step plate (95) is required, fix to footplate. Fold up Westinghouse pump mounting plate (96) and fix to boiler together with pump (97), fix in place lubricator (98). Fit short handrail knobs (99 x 6) to both sides of boiler. assemble parts (100 x 4), (101 x 20) and choice of locker doors (102 x 2) (103 x 2) (104 x 2) to cab sides as shown.*
- 5) *Drill the front and rear buffer beams, 0.5mm to accept the coupling hook and 1.3mm for the buffers. Fit the buffer beam front plate (105) coupling hook (106), choice of buffers (107, 108) (109,110) and the brake hoses (111 x 2). If required a choice of lamps (112 x 2) (113 x 2) or lamp brackets (114 x 2) are provided for fitment.*
- 6) *Drill smokebox door (115) 0.4mm and fix in place a short piece of 0.4mm wire. Fix together with etched smokebox front (116) to boiler, ensuring that hinges on door are horizontal. Drill out smokebox front 0.8mm for handrail knobs (117 x 2) using 0.4mm wire and knobs provided, fix in place handrails. Note that front handrail uses cast bracket (118) at the centre, which must be drilled out to accept wire. Etched brackets (119 x 3) may be added to match prototype if desired (magnifying glass not included). Drill smokebox door handwheel (120) and lever (121) 0.4mm and fix onto the smoke box door as shown.*

#### DRAWING 4 (Loco Body)

- 7) *Fix cab seats (122 x 2) to bunker front (123) and fix bunker front in place. Fix cab locker (124) to choice of low bunker (125) or high bunker (126) rear spectacle plate, and fix spectacle plate in position. If electric lights are to be used, drill (0.6mm) choice of low (127) (128) or high (129) bunker rear (to accept etched plates (130 x 2), and fix to the footplate and tank sides.*
- 8) *Form regulator handle from 0.5mm wire and fix to cab detail (131). Form firebox door levers (132) and fix to doors, adding a short piece of 0.4mm wire at the top if desired. Now fit to footplate along with the handbrake standard (133).*
- 9) *Fix left tank extension (134) in place in the cab, ensuring that rear edge is vertical, trimming the strip at the front if required. Repeat from the right tank extension (135) after first fixing the reverser (136) to it. Add rear steps/ deflectors (130 x 2) if desired, and fold up and add left and right (137 x 2) bunker cover plates if building a low bunker engine. Note that plates may be fitted either leaning against cab rear or covering coal space.*