



# Nigel Lawton 009 9mm gauge 009 20HP WD Simplex Locomotive Kit 'Bow Framed' Simplex

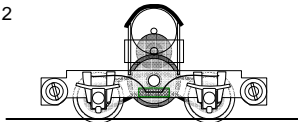
Complete kit including motor, reduction drive, wheels, pickups, loco body and chassis & driver comprising whitemetal castings, etched brass & nickel-silver & machined parts. Requires low melt (70C), 140C & standard (180C or 240C) solder and quick-setting epoxy. NOTE Supplied with 6V motor and dropper resistor for use on 12V dc systems.



<http://www.nigellawton009.com>

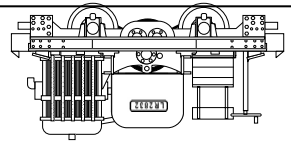
Each 20HP WD Simplex loco kit is made up from the following parts:-

- A) Nickel-Silver chassis etch
- B) Brass body etch
- C) 3.5mm OD x 12.5mm x 12BA brass spacers x 2
- D) 12BA c/s screws x 4
- E) 12BA cheesehead screw x 1
- F) 12BA nut
- G) Ø6mm x 12mm 6V Micro motor
- H) Surface mount 'chip' resistor & 0.8mm PCB mounting pad.
- I) 1.2mm root/2.2mm OD pulley x 1
- J) 4.4mm OD x 1.6mm cross-section O ring (BS003)
- K) 1mm shafting x 5mm
- L) 5mm root/6mm OD pulley
- M) 7mm OD x 1mm cross-section O ring
- N) 1.5mm shafting x 15.9mm
- O) 1.5mm to 2mm shaft adapter x 1
- P) 1.7mm root/2.7mm OD pulleys x 2
- Q) 1.5mm OD 0.8mm ID top hat bearings x 5 (1 spare)
- R) 5.6mm external journal wheelsets x 2
- S) 3mm root/4mm OD pulleys x 2
- T) 6.5mm ID 0.6mm cross-section drive belts x 6 (3 spare)
- U) 0.8mm PCB material 2.5mm x 4mm
- V) 0.5mm x 20mm phosphor-bronze strip
- W) 2.5mm pulley (for fan)
- X) Radiator whitemetal casting
- Y) Exhaust whitemetal casting
- Z) Coupling whitemetal castings x 2
- AA) Whitemetal driver figure
- BB) 0.6mm wire x 30mm
- CC) 0.4mm wire x 40mm
- DD) Liquid lead

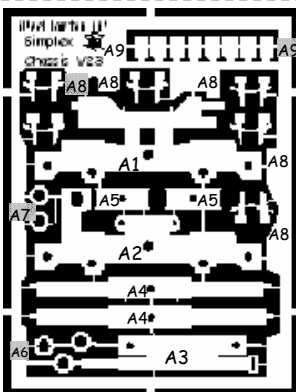


Kit includes one WDLR number plate. Further plates are available from Meridian Models.

This is a model of the War Department Light Railways 20HP Simplex petrol-mechanical locomotive which were used to supply the trenches during WW1 and later in a wide range of industrial situations.



**ACTUAL SIZE**

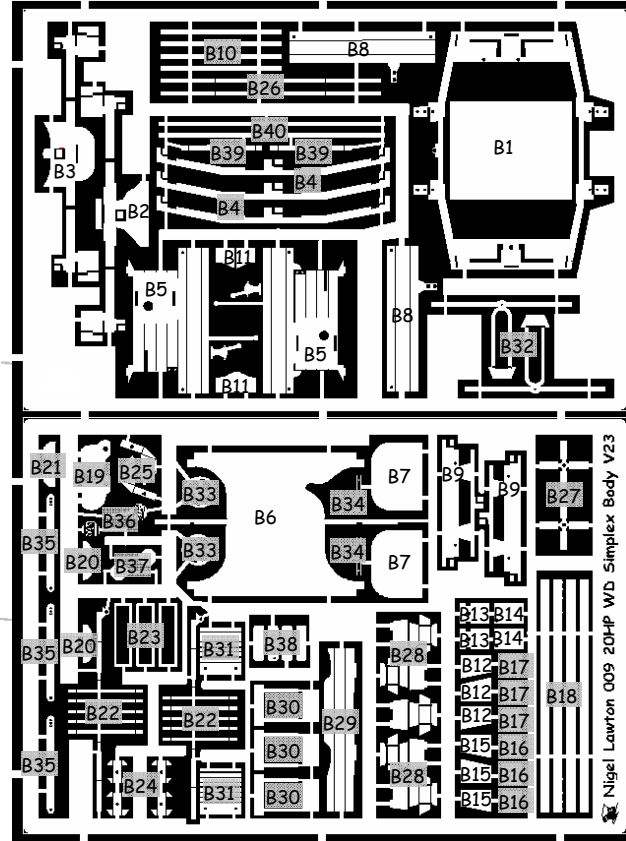


## A Chassis etched N/S component identification

- A1) Main frame mechanism side
- A2) Main frame pickups side
- A3) Motor mount
- A4) Swinging arm
- A5) Swinging arm cross piece
- A6) Washers
- A7) Thin washers
- A8) Suspension overlay
- A9) Axle box overlay

Design Copyright Nigel Lawton 2007  
This is not a toy but a scale model and is not suitable for children

## B Body etched brass component identification



- B1) Upper frame.
- B2) Side frame engine side.
- B3) Side frame gearbox side.
- B4) Lower frames.
- B5) Cross member & driver platform.
- B6) Bonnets (hoods) top and sides.
- B7) Bonnet ends
- B8) Cross member (radiator end).
- B9) End frames
- B10) Frame end pieces
- B11) Bonnet power bulge.
- B12) End overlay left
- B13) End overlay centre brake end.
- B14) End overlay centre radiator end
- B15) End overlay right
- B16) Side overlay left
- B17) Side overlay right
- B18) Frame overlay
- B19) Engine overlay
- B20) Gearbox overlay 1
- B21) Gearbox overlay 2
- B22) Radiator bars
- B23) Radiator flange
- B24) Radiator bracket 1
- B25) Radiator bracket 2
- B26) Fan box
- B27) Fan
- B28) Sand boxes
- B29) Seat base
- B30) Seat back
- B31) Seat top
- B32) Brake column
- B33) Brake wheel
- B34) Bonnet hinge
- B35) Buffer
- B36) Clutch pedal top
- B37) Clutch pedal bottom
- B38) Number plate
- B39) Exhaust bracket (optional)
- B40) Hose strap

