Models Built with No. 7½ Erector

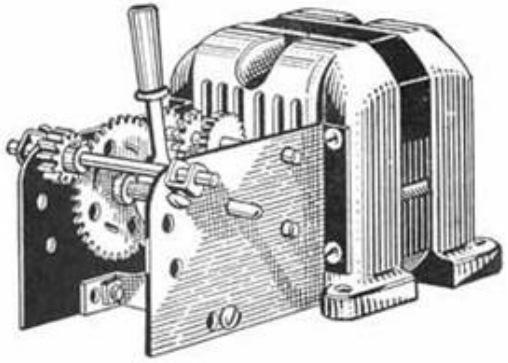
ELECTRIC ENGINE POWER UNITS

The gear shift lever and gears in the ELECTRIC ENGINE are arranged so that one or two shafts may be driven forward or in reverse or allowed to remain in neutral. It is also possible to drive one shaft at two different speeds.

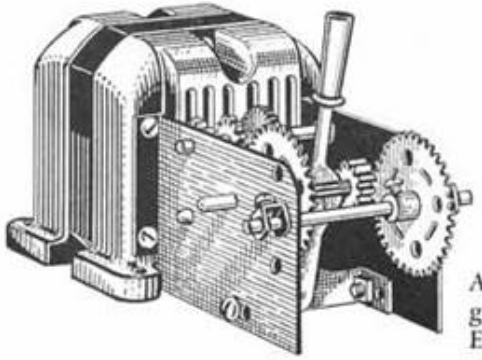
CAUTION — MOTOR MUST BE RUNNING TO SHIFT GEARS SUCCESSFULLY

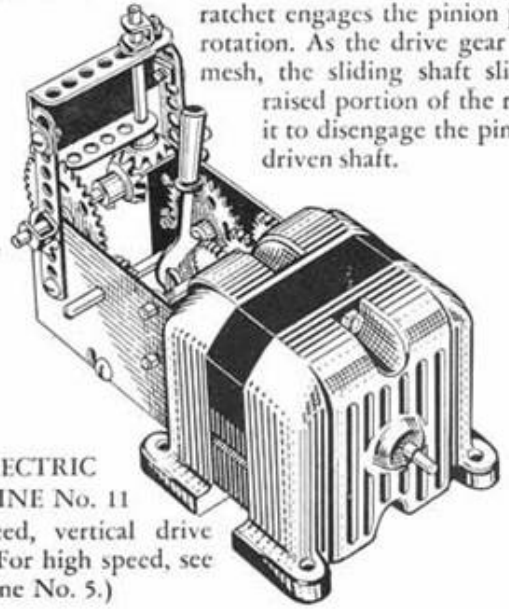
THE RATCHET and pinion arrangement on E. E. No. 10 are only needed when the load, such as an elevator or derrick, would run down when in neutral. This ratchet may be put on any power unit used for hoisting. It should be adjusted so that when the driven gear is not in mesh the ratchet engages the pinion preventing rotation. As the drive gear shifts into mesh, the sliding shaft slips off the raised portion of the ratchet, allowing it to disengage the pinion and free the driven shaft.

ELECTRIC ENGINE No. 8
A high speed gear train



ELECTRIC ENGINE No. 9
A low speed gear train with great power

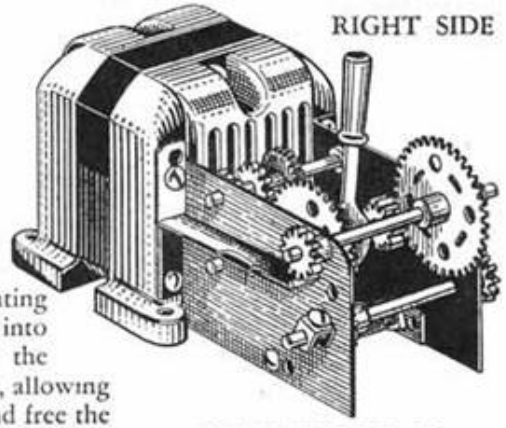




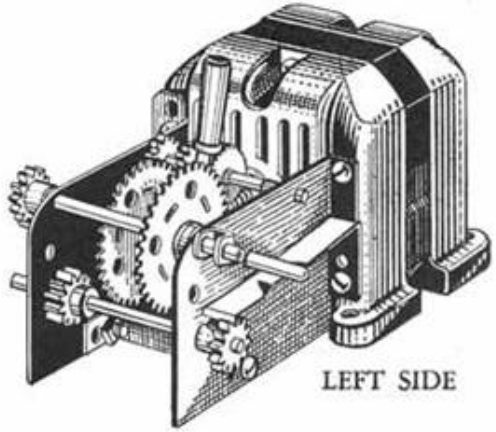
ELECTRIC ENGINE
No. 11
A slow speed, vertical drive gear train. (For high speed, see Electric Engine No. 5.)

ELECTRIC ENGINE No. 10
A combination of high and low speed shafts for load and boom on derricks, etc. (See note on RATCHETS.)

RIGHT SIDE

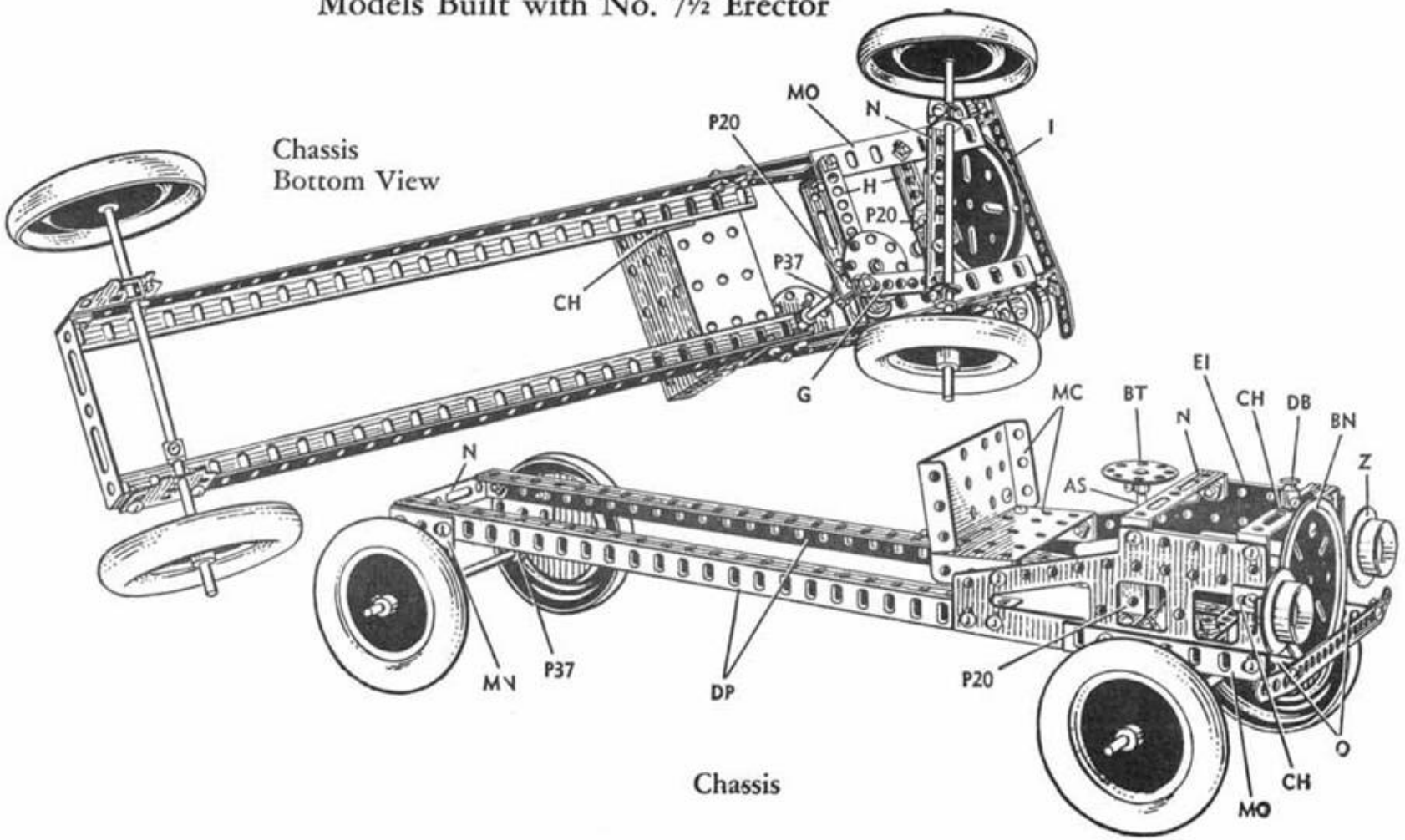


ELECTRIC ENGINE No. 10



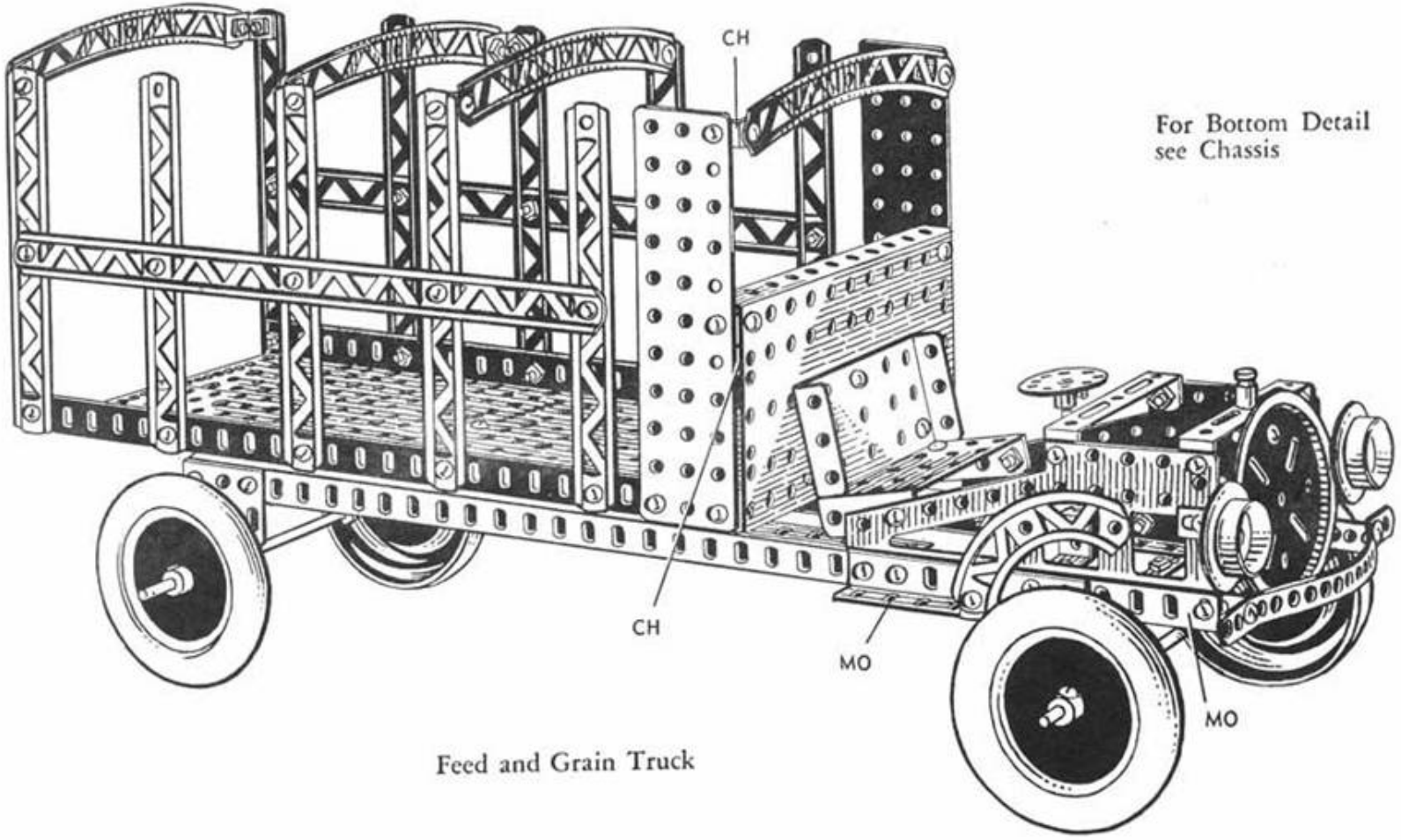
LEFT SIDE

Models Built with No. 7½ Erector



Chassis

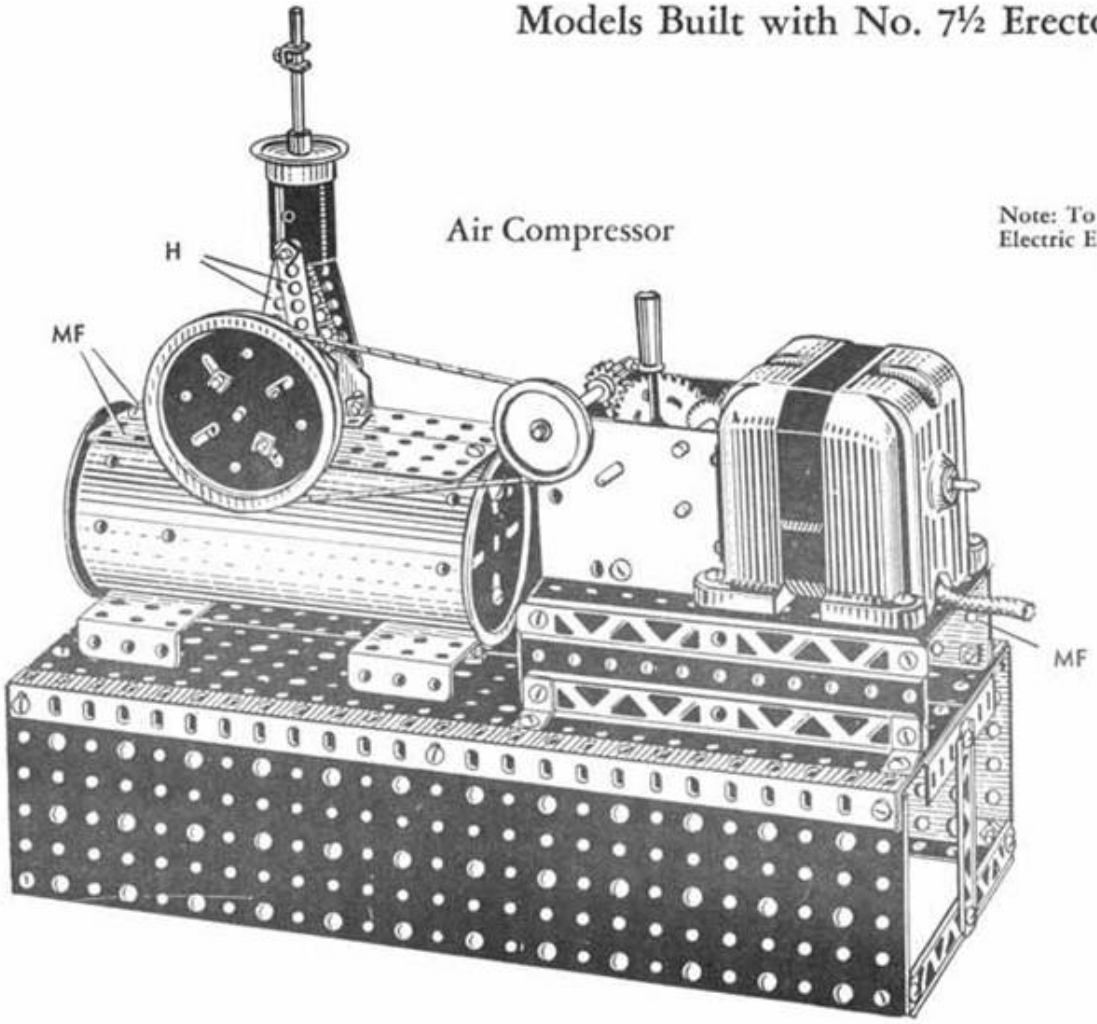
Models Built with No. 7½ Erector



For Bottom Detail
see Chassis

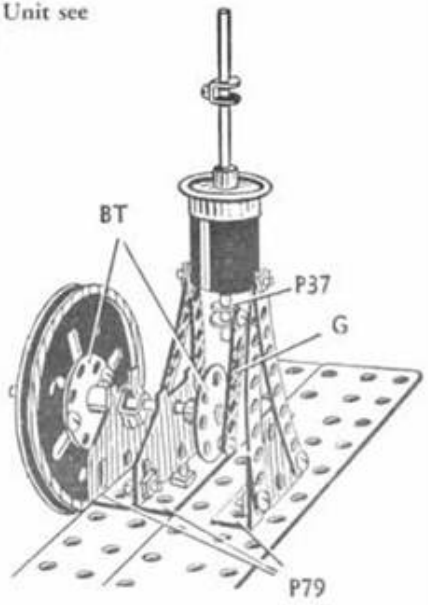
Feed and Grain Truck

Models Built with No. 7½ Erector



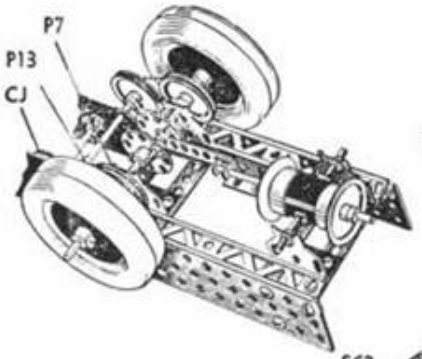
Air Compressor

Note: To build Power Unit see Electric Engine No. 8.

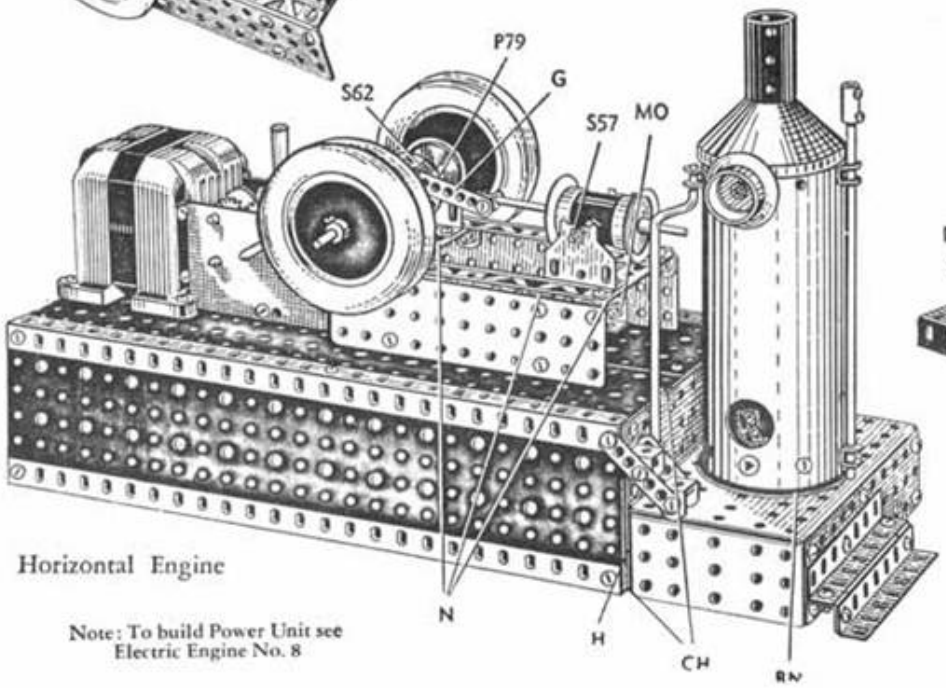


Detail of Air Compressor

Models Built with No. 7½ Erector

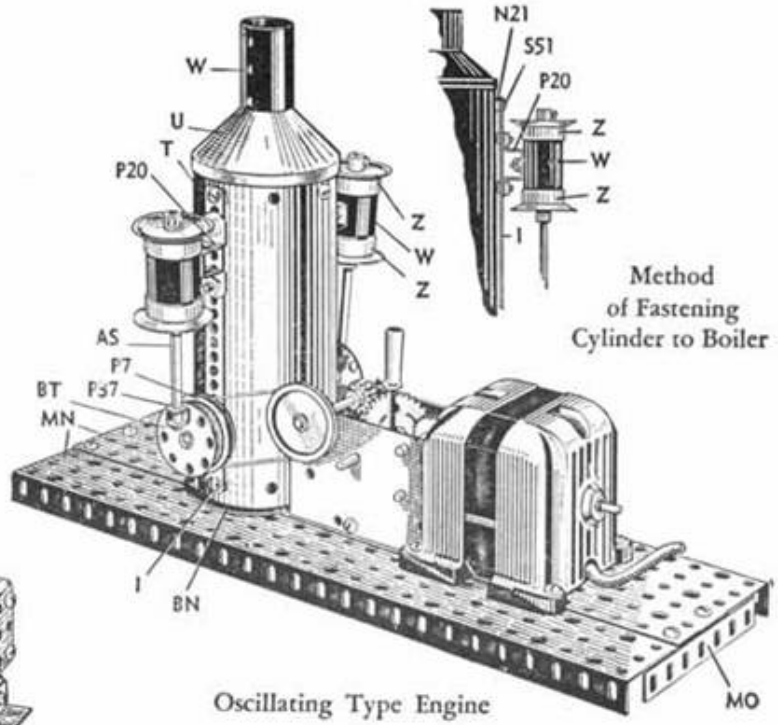


Detail of Drive and Crank for Horizontal Engine



Horizontal Engine

Note: To build Power Unit see Electric Engine No. 8



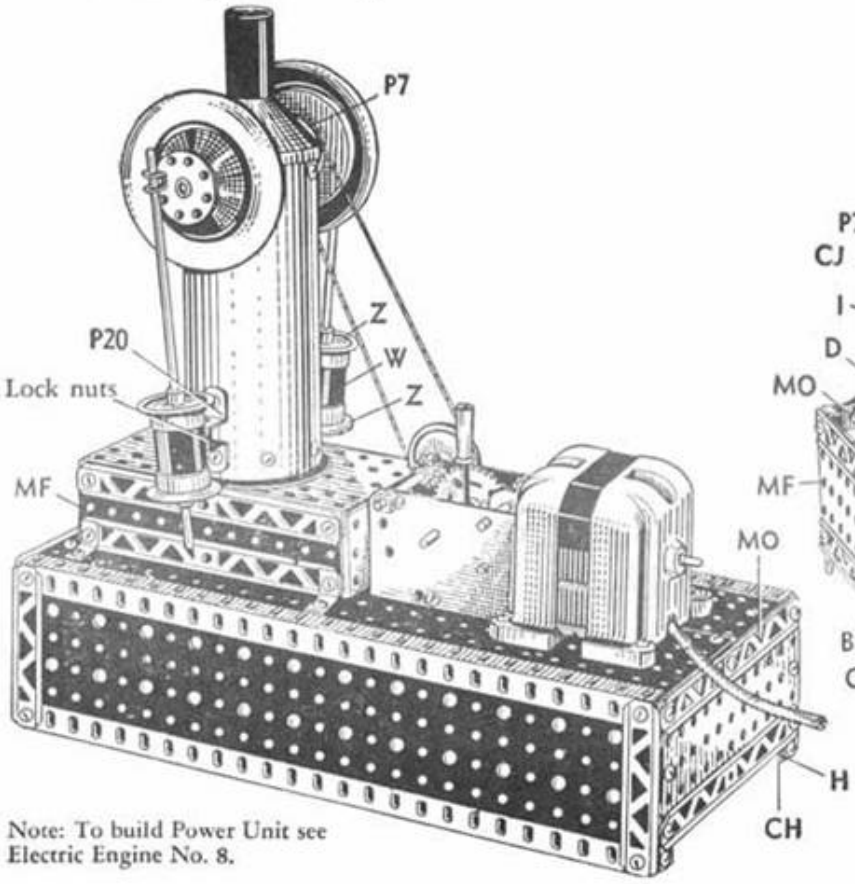
Method of Fastening Cylinder to Boiler

Oscillating Type Engine

Note: To build Power Unit see Electric Engine No. 8

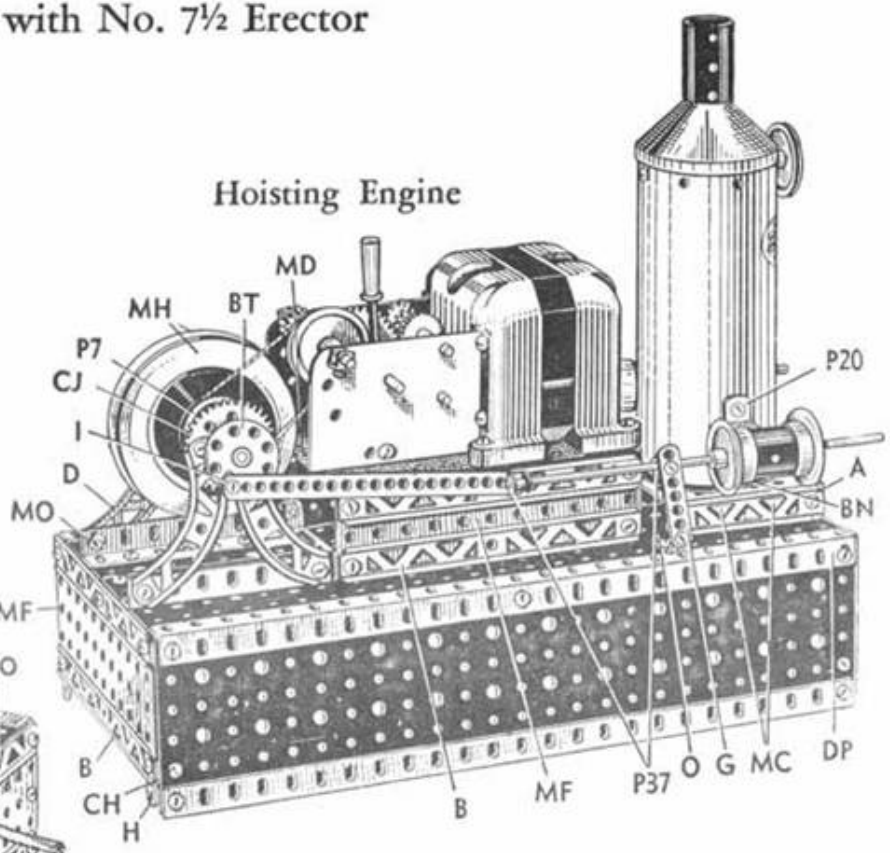
Models Built with No. 7½ Erector

Twin Cylinder Engine



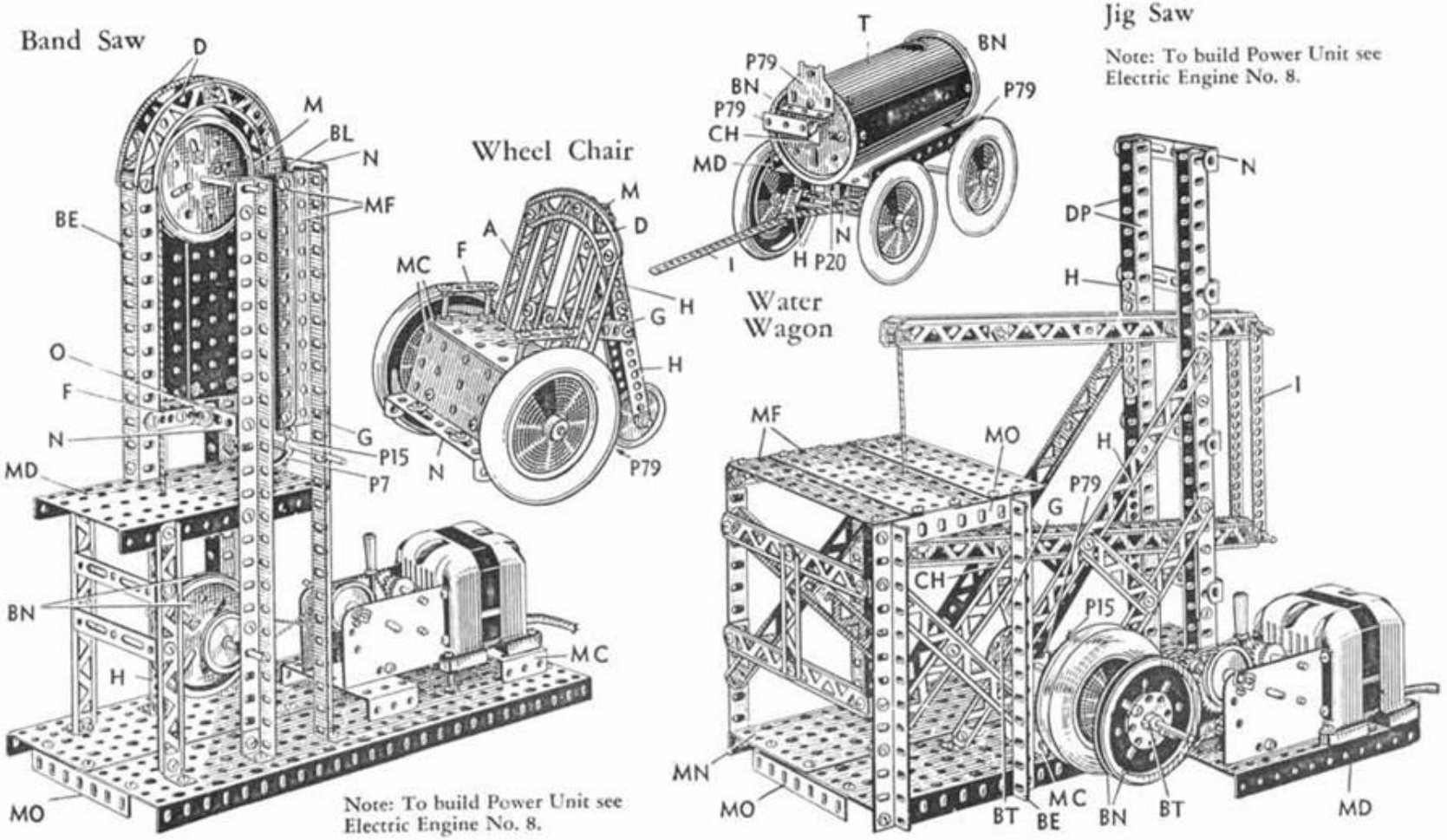
Note: To build Power Unit see Electric Engine No. 8.

Hoisting Engine

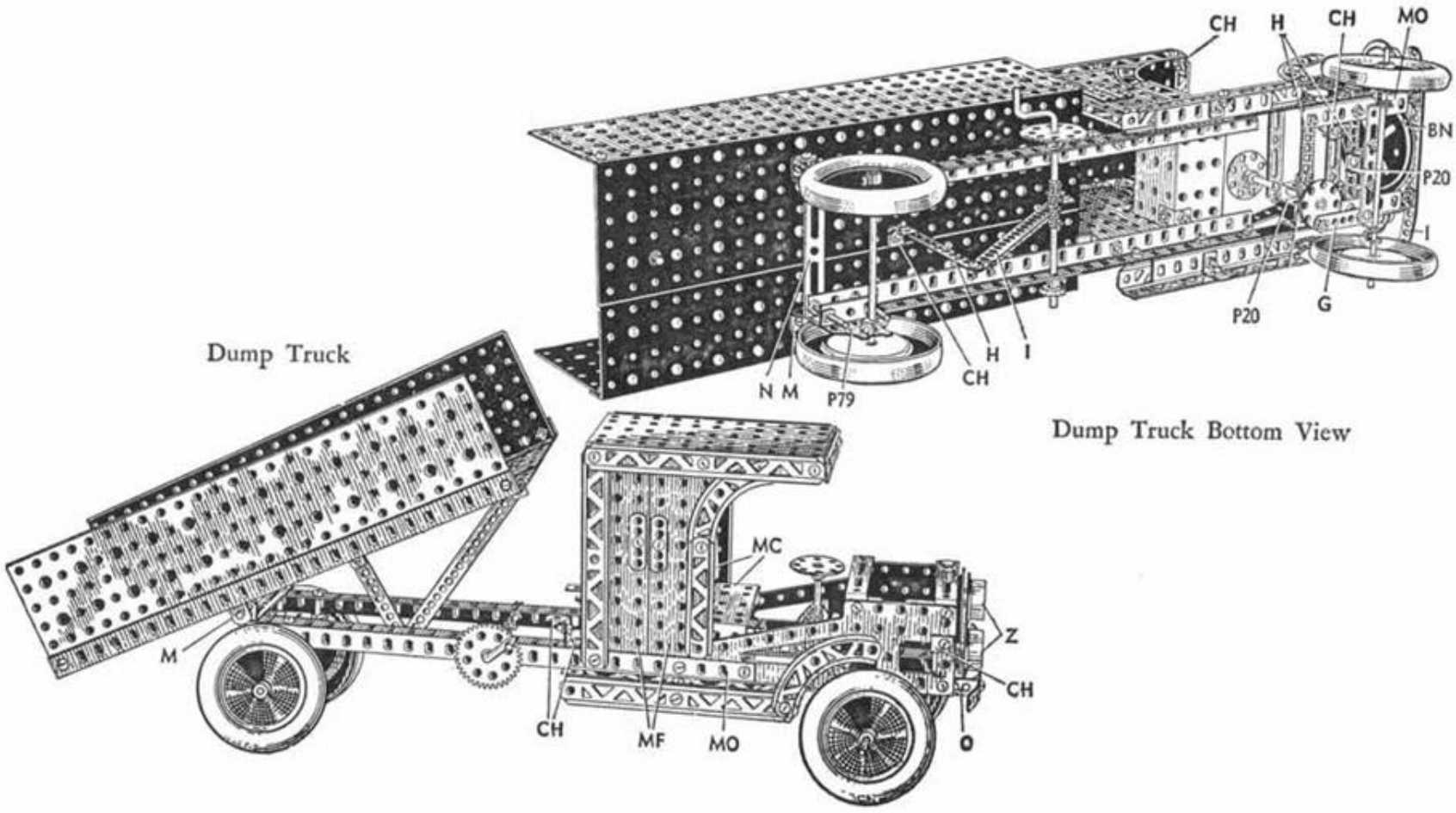


Note: To build Power Unit see Electric Engine No. 8

Models Built with No. 7½ Erector



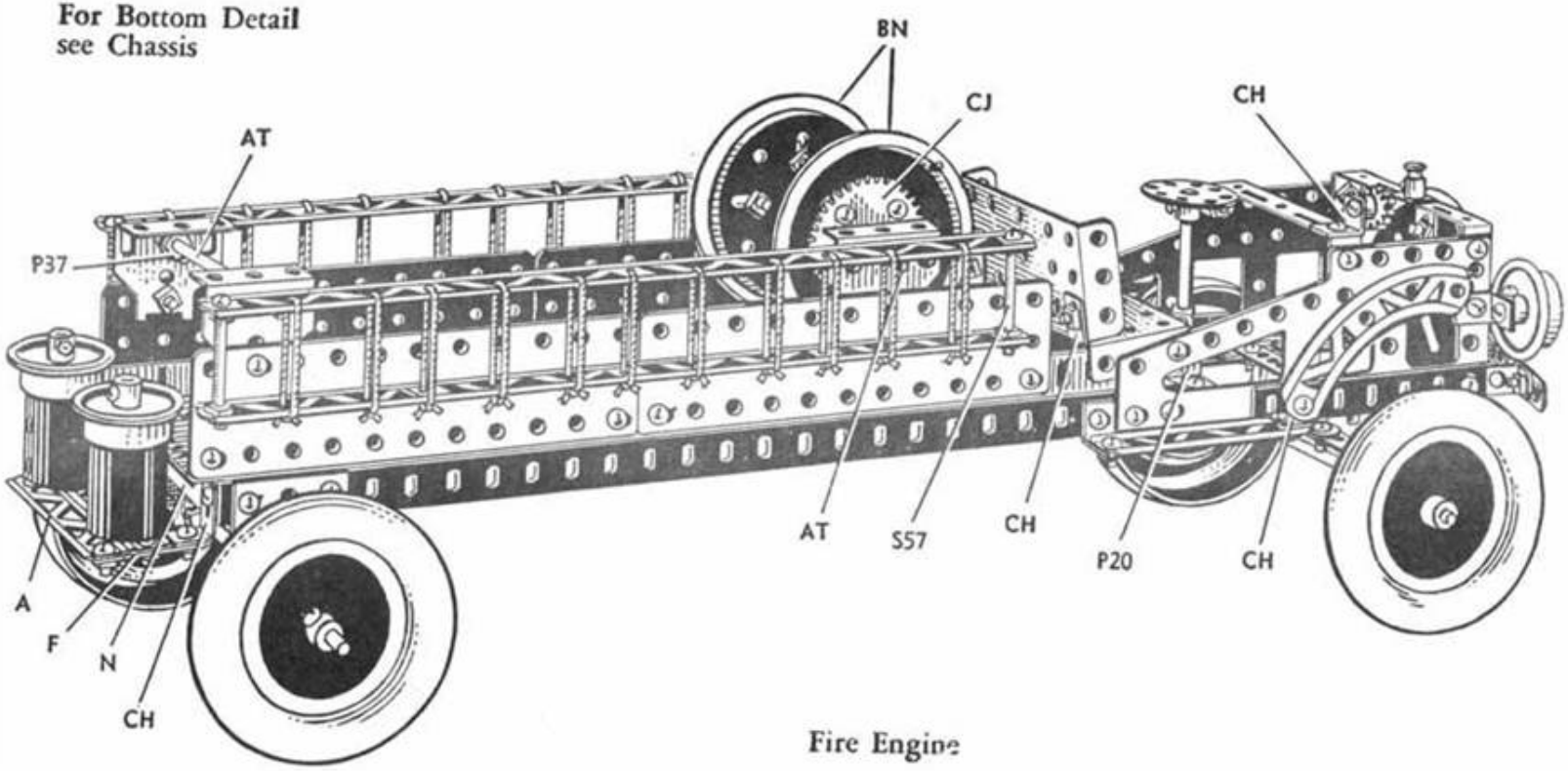
Models Built with No. 7½ Erector



Dump Truck

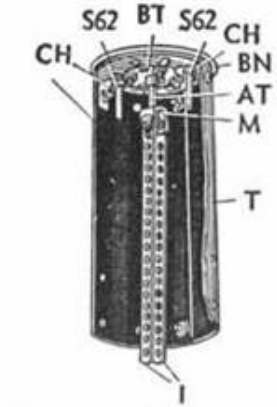
Dump Truck Bottom View

Models Built with No. 7½ Erector



Fire Engine

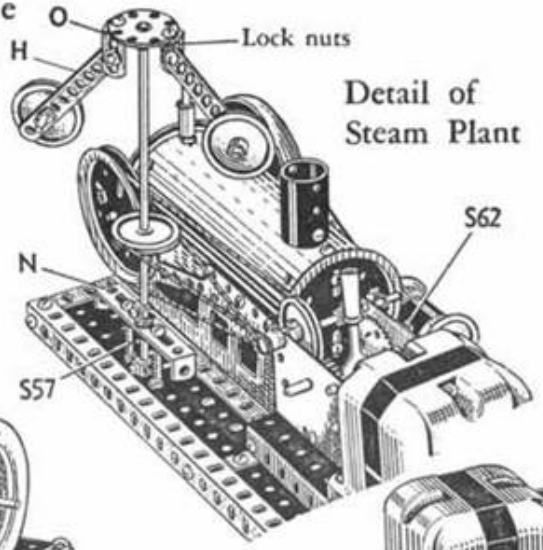
Models Built with No. 7½ Erector



Detail of Piston Construction

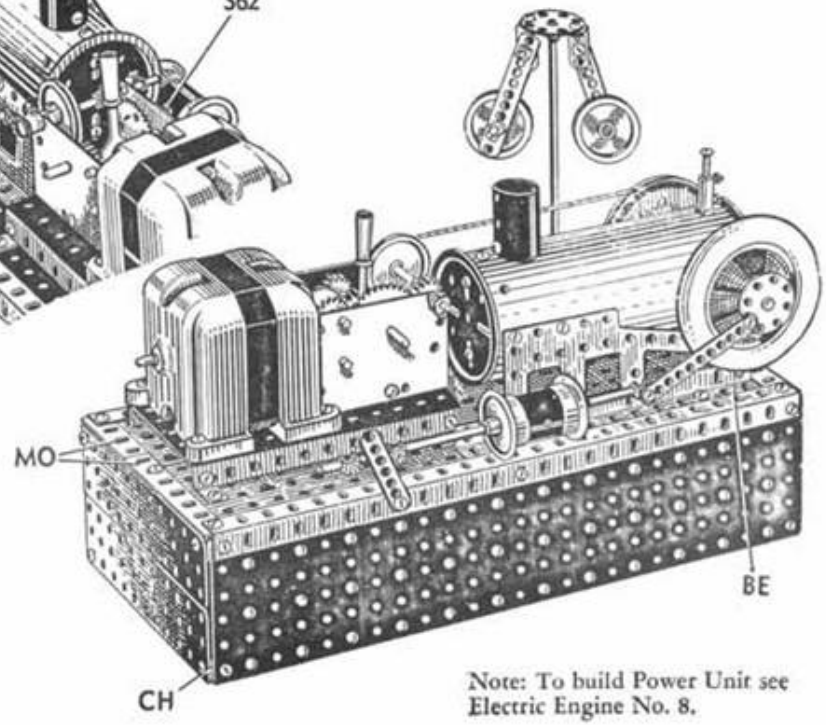
Marine Type Engine

Note: To build Power Unit see Electric Engine No. 8.



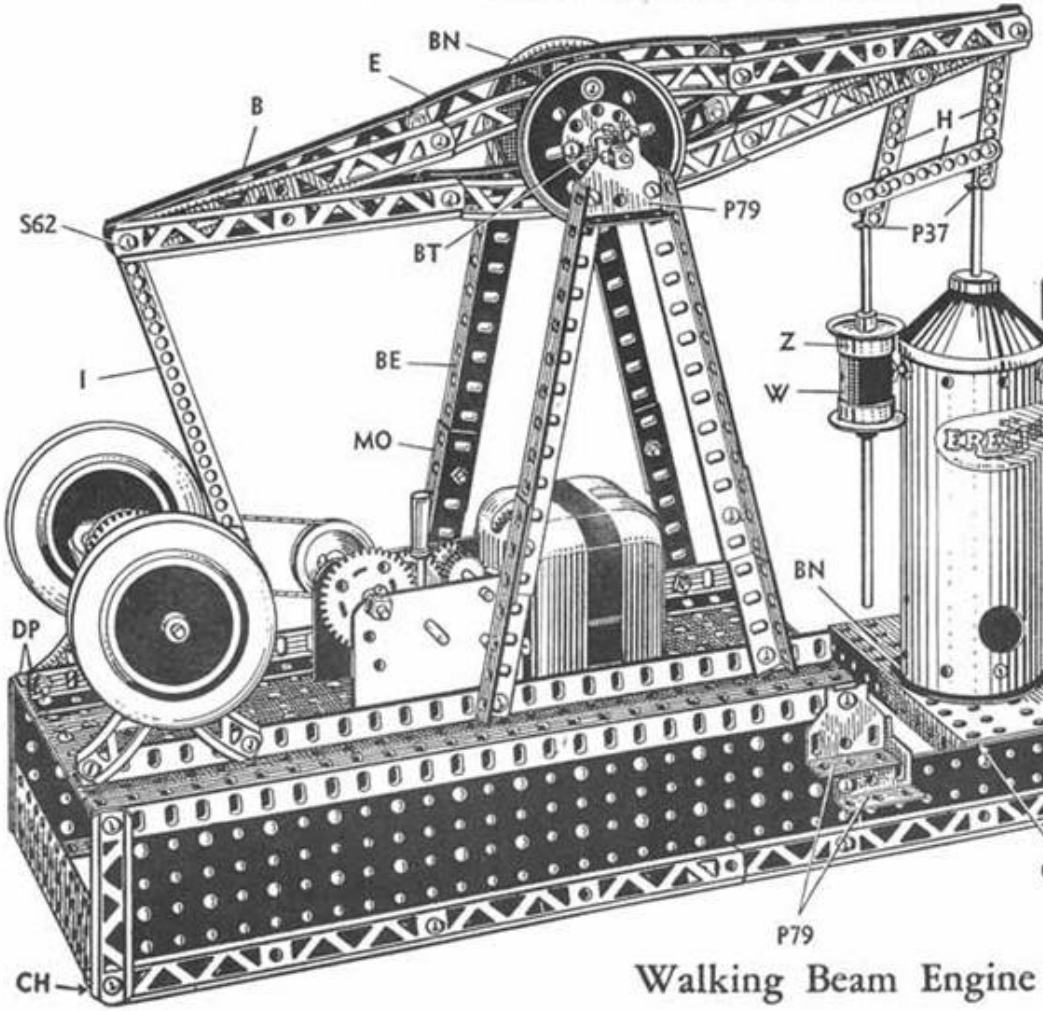
Detail of Steam Plant

Steam Plant



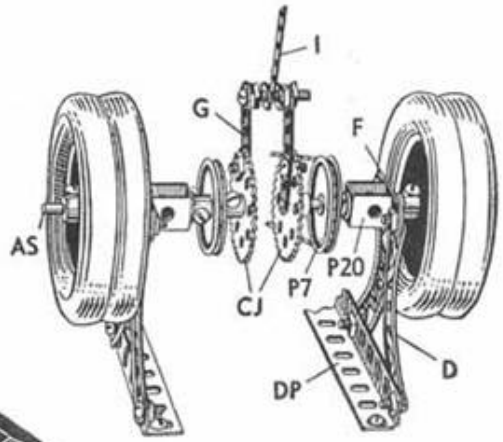
Note: To build Power Unit see Electric Engine No. 8.

Models Built with No. 7½ Erector



Walking Beam Engine

Crank for Walking Beam Engine



Note: To build Power Unit see Electric Engine No. 3 or No. 8. Engine No. 9 shown.