

II. THE MAJOR TRACTOR COMPONENT GROUPS AND UNITS OF CONSTRUCTION

Tractors may be defined as vehicles which are driven by an internal-combustion engine and, normally, are not provided with a loading area. In most countries tractorists must acquire a license for driving tractors; this driver's licence is restricted to driving tractors whose engine output and maximum speed is expressly stated in this document.

The major component groups of a tractor are the *power plant* (engine) which provides the motive power, the *transmission system*, the *basic structure* with brakes and steering system, and the *auxiliaries* (Fig. 16).

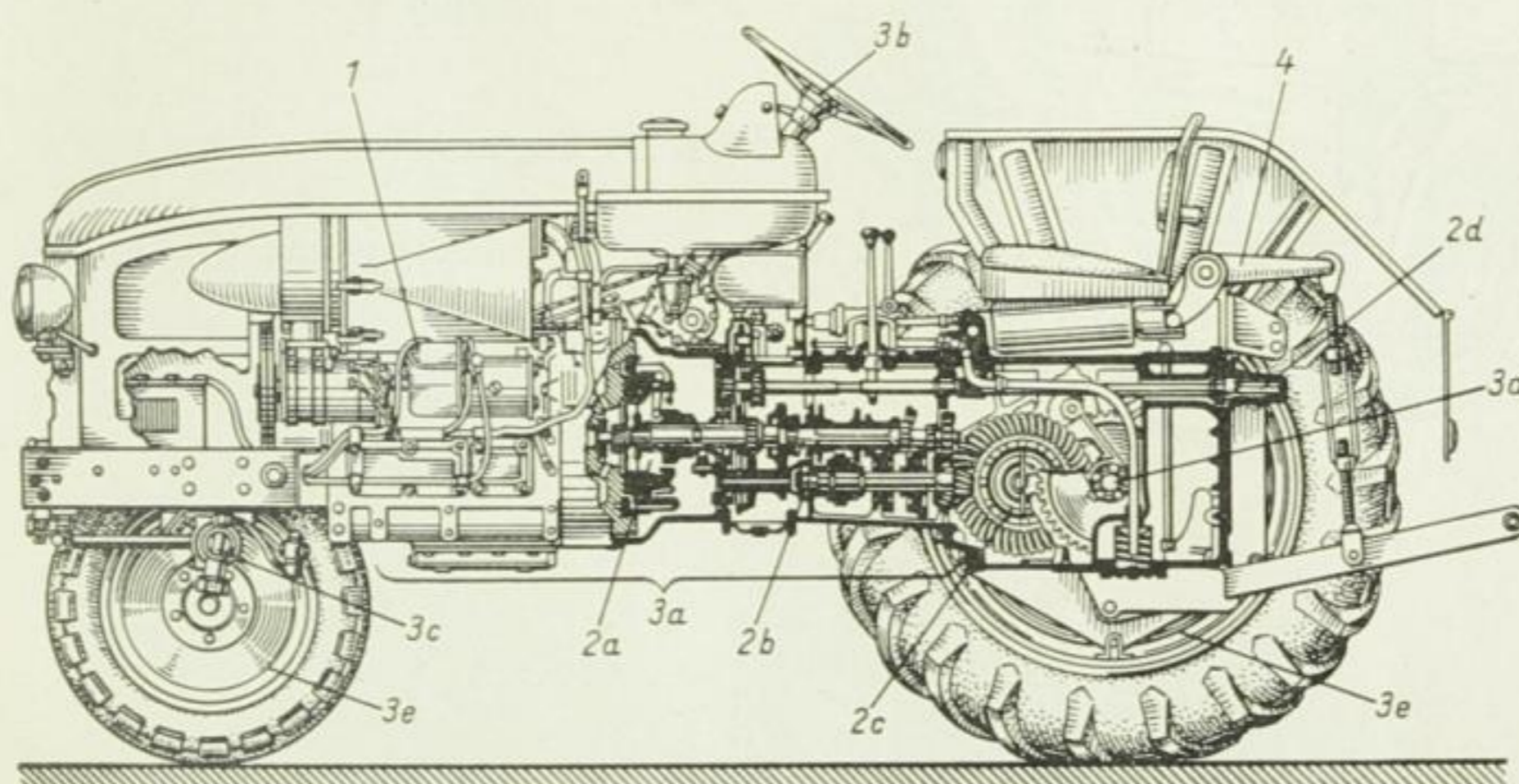


Fig. 16. Major units of construction of the wheeled tractor (Type: D 35 – Manufacturer: Renault)

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|-------------------------------------|------------------------------------|
| 1 Engine | 3 Basic structure |
| 2 Power transmission system | 3a Integral construction |
| 2a Clutch | 3b Steering gear |
| 2b Gearbox | 3c Front axle |
| 2c Differential gear and final gear | 3d Rear axle |
| 2d Rear power take-off | 3e Wheels |
| | 4 Special equipment (power lifter) |