

FIAT

tractors

Model 513 R

tractor



*Specifications, adjustments
and main technical data*

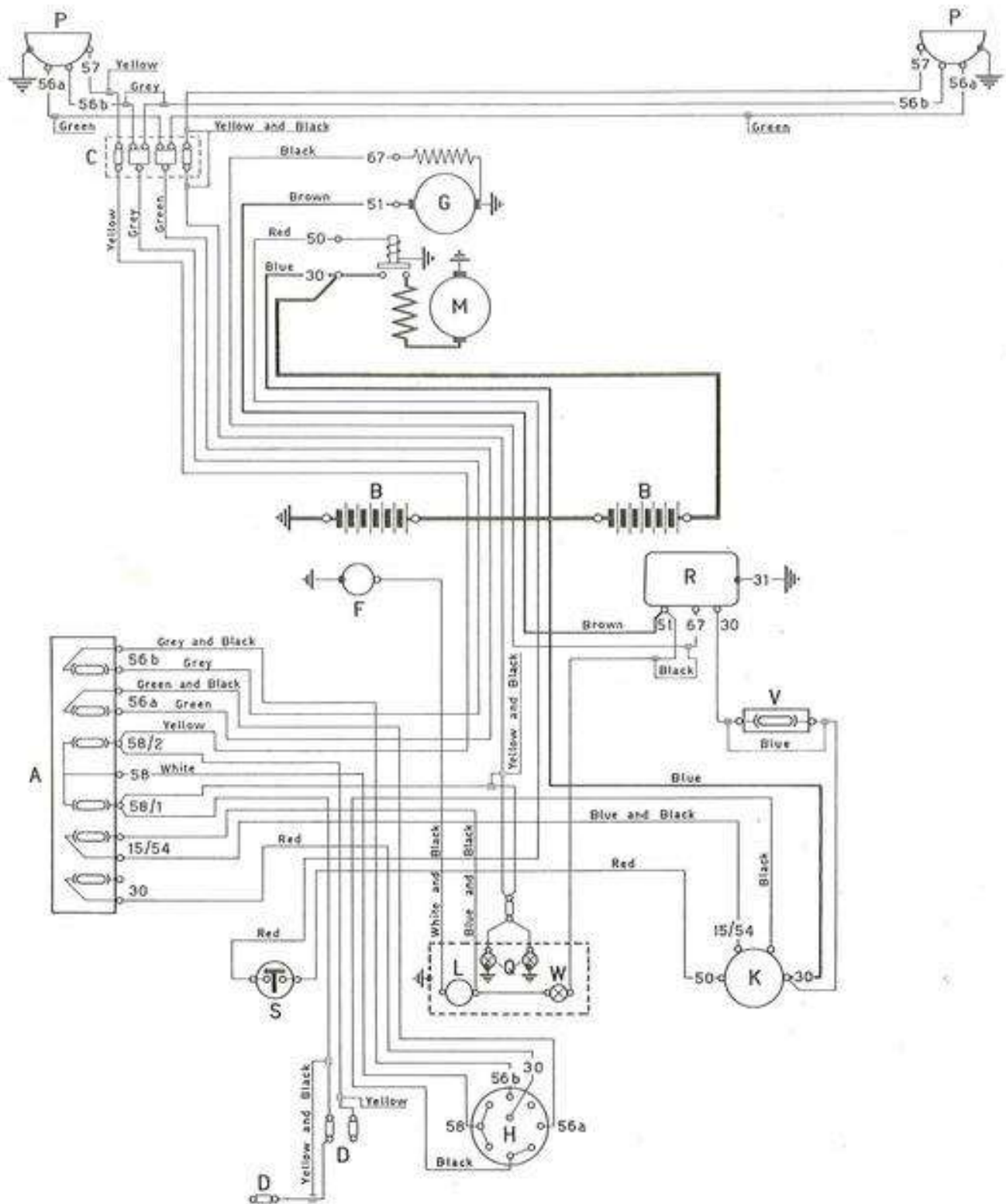


Fig. 8. - Wiring diagram.

P. Headlights - C. Headlight junction box - G. Generator - M. Starter - B. 12 V batteries in series - F. Fuel level indicator control - R. Voltage regulation unit - V. Voltage regulation fuse - A. Lighting fuse box - S. Starter button - L. Fuel level gauge - Q. Dashboard instrument lights - W. Battery charging signal light - H. Lighting switch; electric horn, if any (located right below the steering wheel) - K. Key-type switch - D. Connections available for usage.

- 1 fuel level gauge with scale marking quarters of full tank capacity.
- 1 fuse-box containing six fuses of 8 amp. each for equipment protection, as detailed further on.
- 1 16 amp. fuse holder for the regulation unit protection.

Light switch settings.

Knob position	Equipment
0 +	
I + 58	Front parking lights - Dashboard light.
II + 58 56b	Front parking lights - Dashboard light - Low-beam headlights.
III + 58 56a	Front parking lights - Dashboard light - High-beam headlights.

Fuses.

Fuse	Equipment
56b (8 amp.)	Low-beam headlights.
56a (8 amp.)	High-beam headlights.
58/2 (8 amp.)	Front parking light, left-hand side.
58/1 (8 amp.)	Front parking light, right-hand side.
15/54 (8 amp.)	Fuel level gauge and its control - Battery charging tell-tale lamp.
30 (8 amp.)	Electric horn.
— (16 amp.)	Regulation unit.

The circuits of the following equipment are not protected by fuses: Generator - Starter.

Special dashboard mounted instruments.

Tachometer with 10 different scales; seven of which give the speed in miles per hour corresponding to the tractor gearbox speeds, the remaining 3 give the P.T.-O. shaft revolutions, as well as the belt pulley and crankshaft revolutions. Allowance for values read on the last three scales is of ± 30 revolutions as an average. Tractor speeds correspond to those read on the gauge when 14-28 tyres are fitted to the rear wheel; in case of 14-30 tyres add 4% to the reading, and for 14.9/13-28 subtract 3%.

The instrument is equipped with an hourmeter driven from the injection pump drive coupling (1, fig. 3) and set for 1450 r.p.m. of engine crankshaft (i.e., it reads 1 hour for every $1450 \times 60 = 87,000$ revolutions of the engine).

Thermometer gauge which gives the water temperature and has the readings subdivided into three coloured sectors: blue, green, and red. The green area corresponds to the normal operating temperature included between $167 \pm 41^\circ \text{F}$ and $203 \pm 37^\circ \text{F}$.

Pressure gauge for the engine lubricating oil pressure with readings also subdivided into three coloured sectors: red, green, and red. The green area corresponds to the normal operating pressure ranging between 28 to 32 lb./sq.in. ($2 \div 3 \text{ kg/cm}^2$) and 53 to 57 lb./sq.in. ($3,7 \div 4 \text{ kg/cm}^2$).

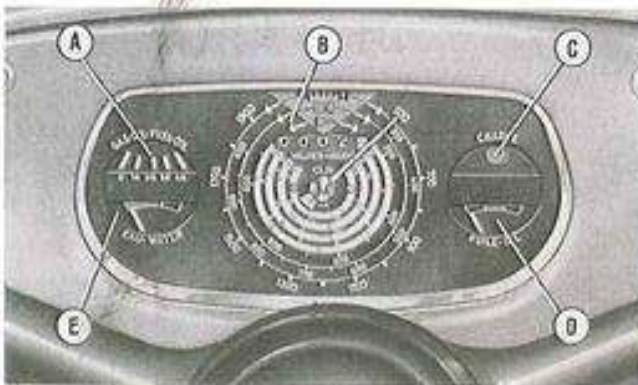


Fig. 9. - Dashboard instruments view.

A. Fuel level gauge - B. Multi-meter - C. Generator charge indicator - D. Engine oil pressure gauge - E. Engine-cooling water temperature gauge.

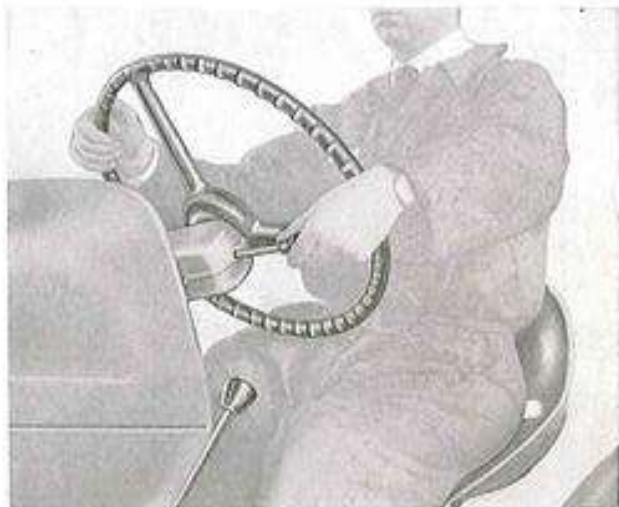


Fig. 10. - Operating the light-switch and electric horn.