

SECTION I — DESCRIPTION AND SPECIFICATIONS

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1. GENERAL DESCRIPTION

The description given herein and the information contained in this manual pertains only to the Model HD-5B Tractor (Standard Model) unless otherwise stated.

The model HD-5B Tractor is a 11,250 pound track-type tractor powered with a 54.6 horsepower, 2 cylinder, 2 cycle Diesel Engine. Power from the engine is transmitted through a single plate over-center type clutch and a universal joint drive shaft assembly to the transmission. The final drive gears and track drive sprockets are driven by two multiple-disc steering clutches, one on each end of

the steering clutch cross shaft.

At full governed engine speed (under load) of 1800 R.P.M. the transmission provides 5 forward speeds, ranging from 1.46 M.P.H. to 5.47 M.P.H., and a reverse speed of 1.99 M.P.H. Mechanical self-energizing brakes insure easy and positive control of the tractor at all times.

The tractor is equipped with electric starter, head lights, full width crankcase guard, hinged radiator grille, front bumper, and positive seal truck wheels, track idlers and track support rollers.

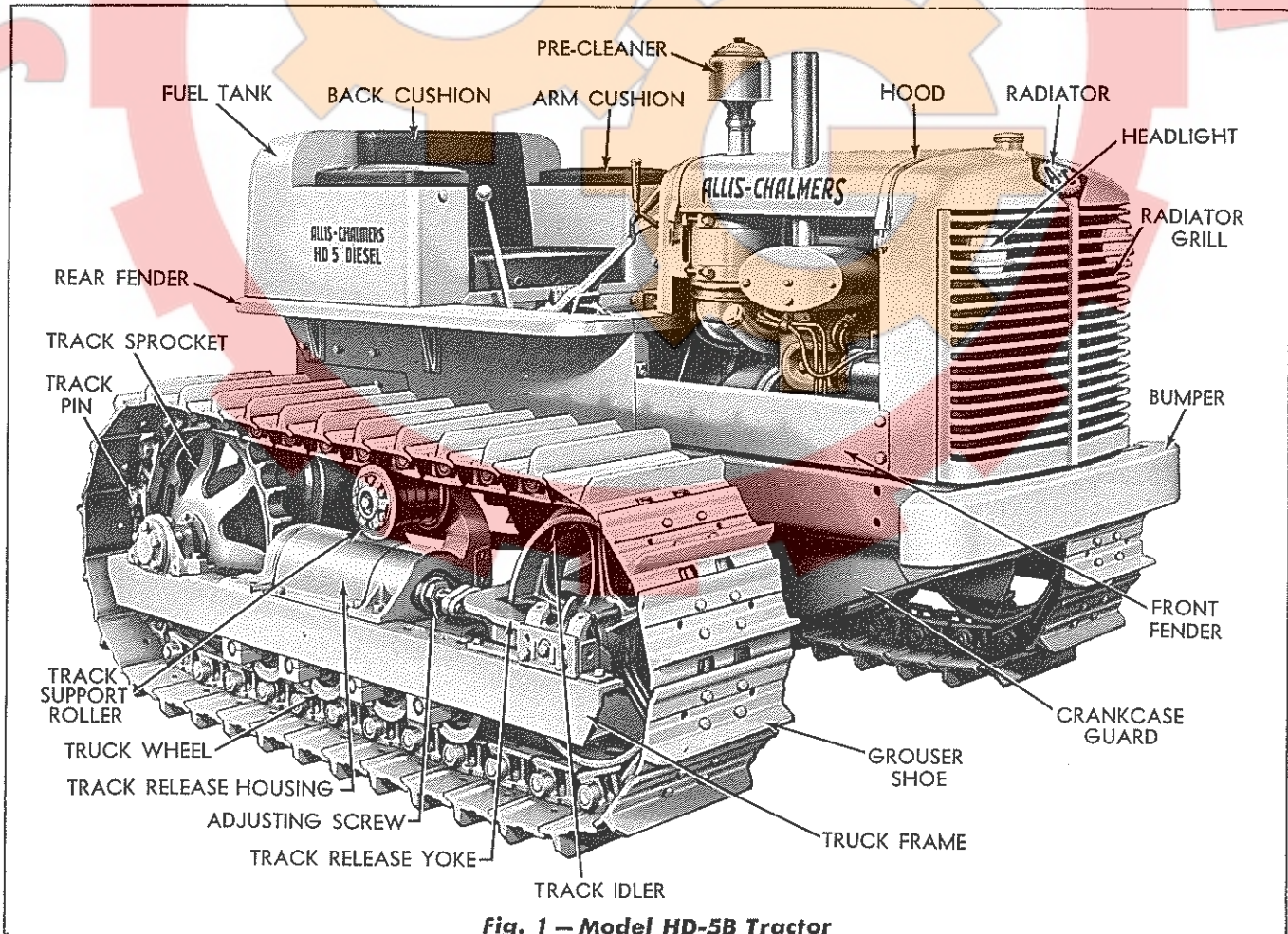


Fig. 1 — Model HD-5B Tractor

2. GENERAL SPECIFICATIONS (STANDARD TRACTOR)

GENERAL:

Weight (60" tread)	11,250 lbs.
Overall Length	10 ft. 4 $\frac{7}{8}$ in.
Overall Width (60" tread)	6 ft. 6 $\frac{1}{2}$ in.
Overall Height (including air pre-cleaner and exhaust pipe)	6 ft. 1 $\frac{1}{8}$ in.
(Air pre-cleaner and exhaust pipe removed)	5 ft. 3 $\frac{1}{8}$ in.
Tread Width — Wide Tread	60 in.
Turning Radius (60" tread)	6 ft. 10 $\frac{1}{8}$ in.
Length of Track on Ground	5 ft. 4 $\frac{1}{4}$ in.
Track Shoe Width (Standard)	13 in.
Ground Contact Area (Standard Shoe)	1670 $\frac{1}{2}$ sq. in.
Ground Pressure (60" tread)	6.73 lbs. per sq. in.
Ground Clearance	11 $\frac{1}{4}$ in.
Drawbar Height	13-15/16 in.
Lateral Movement of Drawbar	21 in.

MAXIMUM SPEEDS:

1st Gear	1.46 M.P.H.
2nd Gear	2.44 M.P.H.
3rd Gear	3.30 M.P.H.
4th Gear	3.96 M.P.H.
5th Gear	5.47 M.P.H.
Reverse	1.99 M.P.H.

ENGINE:

Make	General Motors Diesel
Type	2-Cycle
Number of Cylinders	2
Bore and Stroke	4 $\frac{1}{4}$ x 5 in.
Piston Displacement	142 cu. in.
Full Governed Speed (under load)	1800 R.P.M.
Maximum Net Torque	179.1 ft. lb. @ 1270 R.P.M.
Drawbar Horsepower (at rated speed of 2.44 M.P.H.)	43.8
Belt Horsepower	51.9
Fuel Used	No. 1 and 2 Diesel
Fuel Injection System	Unit Injectors
Lubrication	Forced Feed

CAPACITIES (Fuel, Oil and Coolant—U. S. Standard Measure):

	Approximate Capacity
Fuel Tank	37 Gallons
Cooling System	3 $\frac{3}{4}$ Gallons
Engine Crankcase	2 Gallons
Transmission	5 Gallons
Final Drives (each)	3 Gallons
Air Cleaner	2 $\frac{1}{4}$ Quarts

The Allis-Chalmers Manufacturing Company reserves the right to make changes in the above specifications or to add improvements at any time without notice or obligation.