

## 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.

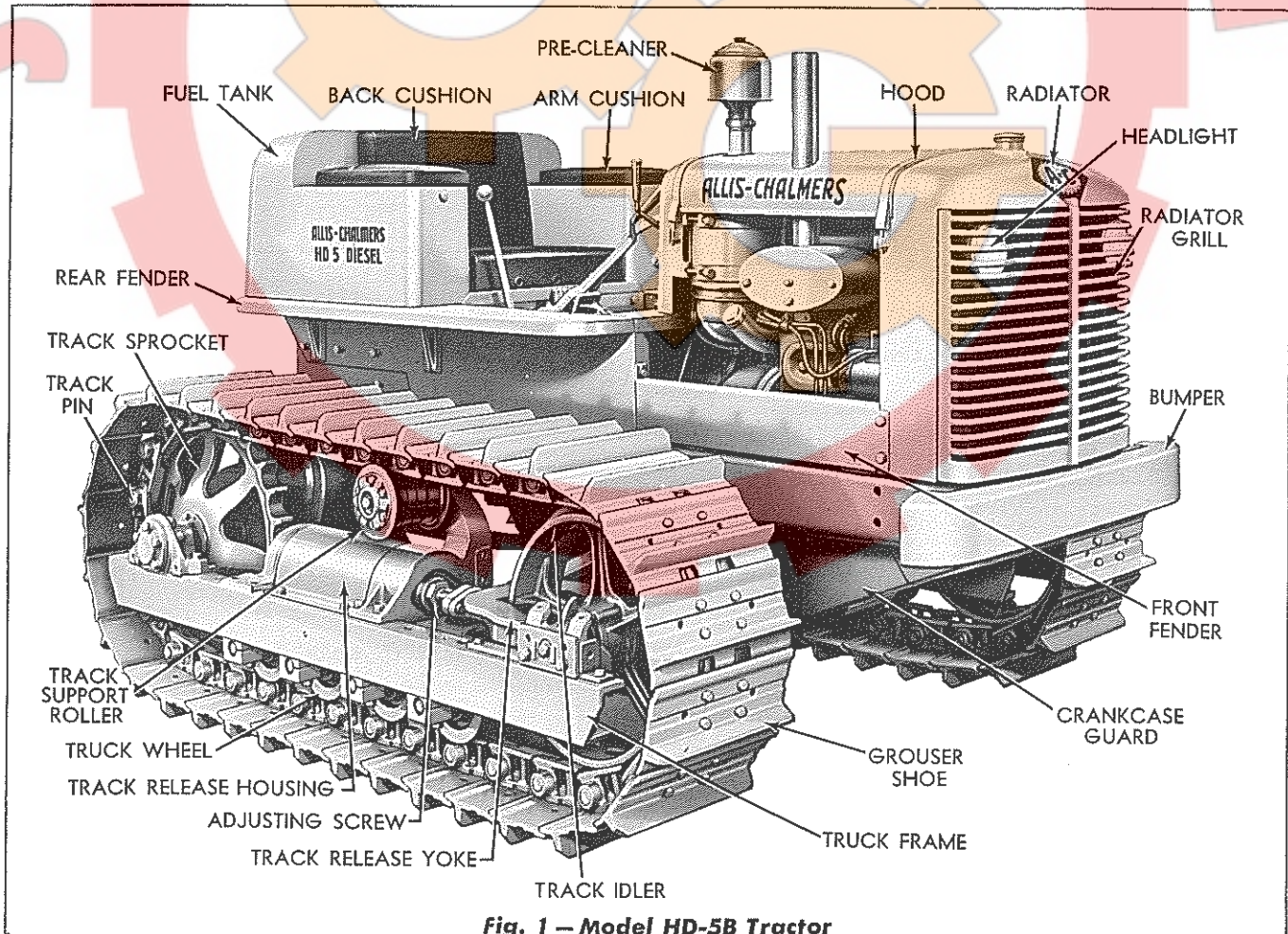


Fig. 1 — Model HD-5B Tractor

## 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.*