

FORD 5000 ALL PURPOSE TRACTOR

ENGINE SPECIFICATIONS

No. of cylinders, 4. Bore, 4.4 in. Stroke, 4.2 in. Displacement, 256 cu. in. Rated speed, 2,100 rpm. Piston travel, 1,470 fpm @ rated engine speed. Compression ratio, 7.75:1 (gasoline), 16.5:1 (diesel).

GASOLINE—Type—In-line, vertical, overhead valve.

DIESEL—Type—In-line vertical, direct injection. Cold starting aid.

CYLINDER BLOCK—Heavy-duty cast iron with deep skirts and heavy ribs. **Crankshaft**—Forged alloy steel with dynamic balancer. Four main, hardened bearing journals. Journal length, in., 1.46. Diameter, in., 3.37. **Connecting rods**—Massive, forged I-beam. Piston pin bushing bronze on steel backing. **Bearings**—Sleeve-type, over-plated copper-lead or aluminum alloy main bearings. **Pistons**—Aluminum alloy, with hardened top ring insert; holds top ring with firm precision to resist wear and extend ring life. **Piston rings**—One oil ring and three (two on diesel) compression rings. All rings, except lower compression ring, chrome-plated. **Piston pin**—Floating type. Length, in., 3.5. Outside diameter, in., 1.5. **Valves**—Positive rotators on exhaust valves. Hardened valve seat inserts. Intake port area, sq. in., 2.30. Exhaust port area, sq. in., 1.99. **Camshaft**—High-lift, flat follower type. **Cylinders**—Sleeveless design, increases rigidity of block, transfers heat quickly to liquid coolant. **Engine lubrication**—Pressurized system. Main bearings, connecting rod bearings and camshaft bearings pressure lubricated. Rocker arms, pressure lubricated (intermittent). Piston pin bearings, cylinder walls and cappets splash lubricated. Timing drive squirt lubricated. Push rods lubricated by drip from rocker arms. Fixed screen intake. 300-hr., 2-qt. oil filter, with replacement element. **Carburetor**—Single venturi, updraft type. Accelerating well and power valve. Fuel inlet screen. **Fuel filter**—Disc element and sediment bowl. **Injection pump** (diesel)—Inline type with mechanical governor. **Dual fuel filters**—Replaceable paper element. **Air cleaner**—Gasoline and diesel: oil bath, 7-in. diam., 140 cfm, rated air flow. Oil cup, 2.6 pt. cap. **Cooling system**—Fan, pump-circulated pressurized coolant, thermostat-controlled, with bypass. Full length water jackets. Tube-and-fin radiator with pressure cap. 28 gpm pump. Thermostat, open temperature, 168 deg. F.; full open, 192 deg. F. **Electric starting and ignition**—Key starter switch and transmission safety lock. Starting motor with positive engagement drive assembly. Voltage and current regulator. 12-volt battery, 128-amp-hr (diesel), 80-amp-hr (gasoline). Ventilated-type generator, capacity 22 amps. **Injector nozzles**—4-orifice type, accessible without removing valve cover.

CHASSIS

TRANSMISSION OPTIONS—8-speed (Dual Range): Provides 4 forward speeds in low range, 4 forward speeds in high range, and 2 reverse. Gears, front position, combined helical-spur; rear position and reverse, spur. **10-speed (Select-O-Speed)**: Full-range, power-shift transmission, lets operator power-shift into any one of 10 forward speeds, on-the-go. Three planetary gear sets in constant mesh. Power flow directed through gear sets by means of hydraulically actuated clutch packs. 2 reverse speeds.

POWER TAKE-OFF SYSTEMS AVAILABLE

	Independent
8-speed	X
10-speed	X

FINAL DRIVE—Double reduction: 23.78:1 reduction ratio with 8-speed manual transmission; 30.01:1 reduction ratio with power-shift 10-speed transmission. First reduction:

with power-shift 10-speed transmission. First reduction: matched pinion gear and spiral bevel ring gear. Straddle-mounted pinion gear mounted on 3 roller, 2 tapered, 1 straight bearing. 4-pinion differential, supported on tapered roller bearings. Second reduction: planetary gear set. Semi-floating rear axle, with steel forged shafts.

CLUTCH—Heavy-duty, dry disc. Diameter, 12 in. Total facing area, two sides, 137.8 sq. in. Foot-operated.

FRONT AXLE—Straight adjustable, steel fabricated. Center section pivoted within heavy cast support. Solid pivot pin, diameter, in., 1.87.

STEERING—Manual. Recirculating ball nut type with 18-in. diameter steering wheel. Steering gear ratio, 32.71:1. Steering wheel turns, stop to stop, 4.0.

BRAKES—Mechanical. Self-energizing, wet discs fully enclosed, mounted between differential and planet gear set. Brakes can be operated individually or latched together and operated simultaneously. Total lining area, 215.4 sq. in. Parking brake lock.

HYDRAULIC SYSTEM—"Live" hydraulics (less rockshaft and 3-point hitch). Gear-type pump, capacity 6.0 gpm @ 2,100 engine rpm @ 2,500 psi.

DIFFERENTIAL LOCK—Improves traction in difficult spots by minimizing wheel spin. Operator engages by depressing a pedal near right foot. Power is directed evenly to both

OTHER STANDARD EQUIPMENT—Tachometer hour meter. Fuel gauge. Swinging drawbar. Fenders. Tool box. Oil pressure warning light. Generator warning light. Water temperature gauge. Vertical exhaust. Deluxe seat. Lights, including two headlights, taillight, instrument panel lights. Flashing safety light. 6.00—16, 4-ply, F2 front tires. 13.6—38, 4-ply, R1 rear tires.

OPTIONAL EQUIPMENT (Factory-installed)

Power-assist steering—Cylinder, internal, in front support, integral with control valve. Engine-mounted, gear-driven, 4.4 gpm gear pump.

Power-adjusted rear wheels—30-in. and 38-in.—56-90-in. tread range without reversing rims.

Diesel engine cold start—standard with 10-speed transmission.

Horizontal exhaust.

Hydraulics—"Live" hydraulics with position control, double-acting draft control, flow control, auxiliary services control valve and category II 3-point linkage with flexible link ends.

Rear tires—
15.5—38, 6-ply, R1
15.5—38, 6-ply, R2-0
16.9—30, 6-ply, R1

ACCESSORIES: (Dealer-installed)

Front tires—7.50—16, 4-ply, F2
7.50—18, 4-ply, F2

Clevis for swinging drawbar. Linkage drawbar. Air pre-cleaner and long stack. PTO guard. Linkage stabilizers. Remote control valve. 1 or 2-spool. Double-acting remote hydraulic cylinder. Quick-release hydraulic coupling (D-A). Implement work light and switch. Conversion kit—Category II to Category I 3-point hitch. Implement lamp kit. Grease gun, holster. Spark plug tire pump. Front end weights. Front wheel weights. Rear wheel weights. PTO belt pulley. Canvas cab. Slow moving vehicle emblem. Tractor radio. Ether starting. Category II 3-point hitch with flexible link ends. Dual rear wheels with adjustable rims or 30 or 38-in. wheels.

Design, materials and/or specifications are subject to change without notice and without liability therefor.

YOUR FORD TRACTOR AND EQUIPMENT DEALER

FORD TRACTOR

