

FORD 4000 ALL PURPOSE TRACTOR

ENGINE SPECIFICATIONS

GASOLINE ENGINE—Type—In-line vertical, overhead valve. No. of cylinders, 3. Rated speed, rpm, 2,200. Bore, 4.4 in. Stroke, 4.4 in. Displacement, 201 cu. in. Compression ratio, 7.75:1.

DIESEL ENGINE—Type—In-line vertical, open combustion chamber, with cold starting aid. No. of cylinders, 3. Rated speed rpm, 2,200. Bore, in., 4.4. Stroke, in., 4.4. Displacement, cu. in., 201. Compression ratio, 16.5:1.

CYLINDER BLOCK—Heavy-duty cast iron with deep skirts and heavy ribs. **Crankshaft**—Four main, hardened bearing journals. Journal length, in., 1.46. Diameter, in., 3.37. **Connecting rods**—Massive, forged I-beam. Piston bushing—bronze on steel backing. **Bearings**—Sleeve-type, overlapped 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 two compression rings per piston. Diesel, three compression rings. All rings, except the lower compression ring, are chrome-plated. **Piston pin**—Floating type. Length, in., 3.5. Outside diameter, in., 1.5. **Piston travel**—1,630 fpm @ 2,200 engine rpm. **Valves**—Positive rotators on exhaust valves. Hardened valve seat inserts. **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 tappets 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)—Distributor type with mechanical governor. **Fuel filter**—replaceable paper element. **Air cleaner**—Dry type (gasoline). Diameter, 6.5 in. Rated air flow, 100 cfm. Oil-bath (diesel). Rated air flow, 140 cfm. Capacity, 2.65 pt. **Cooling system**—Fan, pump-circulated pressurized coolant, thermostat-controlled with by-pass. Full length water jackets. Tube-and-fin radiator, with pressure cap., 28 gpm. Thermostat, open temperature, 168 deg. F.; full open, 192 deg. F. **Electrical starting and ignition**—Key starter switch and transmission safety lock. Starting motor with positive engagement drive assembly. Centrifugal and vacuum spark advance. Voltage and current regulator. Battery (gasoline), 12-volt, 80-amp-hr; (diesel), 128-amp-hr. Ventilated type generator, capacity, 22 amp. **Injection nozzles** (diesel)—4-orifice type, accessible without removing valve cover.

CHASSIS

TRANSMISSION OPTIONS—8-speed (Dual Range): Provides 4 lowest forward speeds in low range, 4 highest forward speeds in high range and 2 reverse speeds. 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. Two reverse speeds.

POWER TAKE-OFF OPTIONS

	Transmission Type	Ground Drive	Independent
8-speed	X		X
10-speed		X	X

FINAL DRIVE—Double reduction; 15.75:1 reduction ratio with 8-speed manual transmission; 30.01:1 reduction ratio with power-shift 10-speed transmission. First reduction: matched pinion gear and spiral bevel ring gear. Straddle-

roller bearings. Second reduction: planetary gear set. Semi-floating rear axle, with steel forged shafts. mounted pinion gear mounted on 3 roller, 2 tapered, 1 straight bearing. 4-pinion differential, supported on tapered

CLUTCH—Heavy-duty, dry disc. Diameter, 11 in. Total facing area, two sides, 118.5 sq. in. Foot operated.

FRONT AXLE—Straight, adjustable, steel fabricated. Center section pivoted within heavy cast support. Solid pivot pin, diameter, in., 1.75.

STEERING—Manual. Recirculating ball nut type, with 18-in. diameter wheel. Steering gear ratio, 24.2:1. Steering wheel turns, stop to stop, 4.8.

BRAKES—Mechanical. Self-energizing wet discs, fully enclosed, mounted between differential and planetary reduction gears. Operated either individually or simultaneously. Total lining area, 165 sq. in. Parking brake locks.

HYDRAULIC SYSTEM—"Live" hydraulics with position control, double-acting draft controls, flow-control and Category 1 3-point linkage with flexible link ends. Double-acting draft control reacts to both compression and tension in the top link for maximum traction with light or heavy equipment in all soils. Flow control valve lets operator adjust speed of draft control reaction, matching equipment weight and soil conditions. Engine-driven, piston-type pump. Capacity: 5.3 gpm @ 2,200 engine rpm, @ 2,500 psi. 3-point hitch, hydraulic lifting force: 2,000 lbs at point 24 inches rear of lower link balls.

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-in., 4-ply F2 front tires. 12.4—38-in., 4-ply, R1 rear tires.

OPTIONAL EQUIPMENT (Factory-installed)

Power-assist steering—Cylinder on drag link, left side, integral with control valve. Engine-mounted, gear-driven 4.4 gpm gear pump. **Differential lock**—When engaged, power is directed evenly to both wheels, allowing wheel on firm ground to find traction, move tractor through difficult spots. Disengages automatically. **Power-adjusted rear wheels**—30 and 38-in. tires—56 to 90-in. tread range without reversing rims on wheel discs. **Diesel engine cold start**—standard with 10-speed transmission. **Horizontal exhaust**.

Front Tires—7.50—16, 4-ply, F2.

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Rear Tires—14.9—30, 6-ply, R1.
13.6—38, 6-ply, R2-0.
13.6—38, 4-ply, R1.
16.9—30, 6-ply, R1.
16.9—26, 6-ply, R3.
18.4—26, 6-ply, R3.

ACCESSORIES (Dealer-installed)

Auxiliary services control valve. 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 I to category II 3-point hitch conversion. 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. Dual rear wheels with adjustable rims on 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

