



LOGGERS

FARMERS

COAL

BOTTLERS

MOVERS

METAL PRODUCTS

CONTRACTORS

CONTRACT HAULERS

FURNITURE

GAS AND OIL

DEPARTMENT STORES

BAKERS

WHOLESALE GROCERS

CONSTRUCTION

COMMON CARRIERS

MEK

AND FOR

PRODUCE

PRACTICALLY EVERY

PUBLIC UTILITIES

HEAVY-DUTY

LUMBER

HAULING

NEED

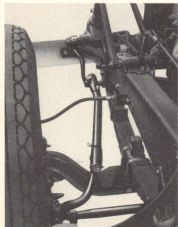
FORD CAB-OVER-ENGINE TRUCKS



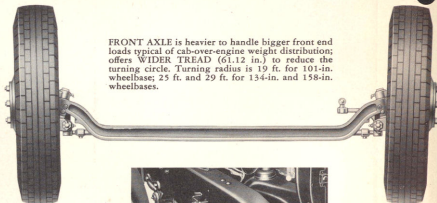
1½-TON AND 2-TON MODELS

TRUCK-ENGINEERED • TRUCK-BUILT • BY TRUCK MEN

FORD TRUCK FEATURES SPECIFICALLY DESIGNED FOR CAB-OVER-ENGINE SERVICE

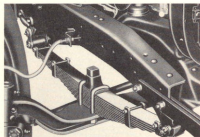


In Ford C.O.E. design, the **STEERING GEAR** is located ahead of the front axle. A short, direct-acting drag link offers simple, stable and efficient steering linkage.



FRONT AXLE is heavier to handle bigger front end loads typical of cab-over-engine weight distribution; offers **WIDER TREAD** (61.12 in.) to reduce the turning circle. Turning radius is 19 ft. for 101-in. wheelbase; 25 ft. and 29 ft. for 134-in. and 158-in. wheelbases.

Longer, wider **FRONT SPRINGS** offer bigger carrying capacity. Tensile strength of alloy steel leaves is 200,000 lbs. per sq. in. Springs have steel-backed bronze-bushed eyes, hardened steel shackle pins.



WORK-PROVED CONVENTIONAL TRUCK FEATURES RETAINED IN C.O.E. FORDS

Except for three major features shown above, and some minor differences in driving controls, Ford specifications for C.O.E. and conventional truck chassis are identical. Two advantages result from use of the same clutches, transmissions, drive lines, rear axles, etc., in both types of trucks. First, Ford C.O.E. trucks use parts thoroughly proved in conventional truck service. Second, Ford repair parts for C.O.E. trucks are easier to get.

FORD C.O.E. SUPERIORITIES



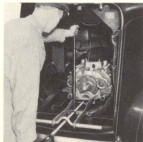
Short-legged drivers will O.K. Ford's 36" floor-ground height—unusually low for a C.O.E.



Quick turn of 4 latches exposes spark plugs, air cleaner, oil filter, fuel pump, carburetor, etc.



Oil filler port with rubber-sealed cap is handily located on engine cover, just inches away from opening to the oil level gage.



When necessary, engine removal or installation is a quick, one-man job. Only a few operations, like re-boring, require removal.

LONG BODIES ON SHORT WHEELBASES

Wheelbase	Cab to Axle Dimension	Body Length Range
101"	60"	7'3" - 8' AND TRACTOR
134"	93"	11'-14'
158"	117"	14'-17 1/2'

Combination of long cab-to-axle dimension with short wheelbase offers: good weight distribution for bodies in the 9 ft., 12 ft., and 15 ft. ranges; short turning circle for easy handling.

SERVICE-EASE — A PRIME FORD FEATURE

Cab-over-engine Ford trucks, in many respects, are no more difficult to get at and repair than are conventional trucks. This is just as true of the Ford engine as any other part of the chassis. A study of "flat-books on engine service operations proves that "standard time" allowances for practically all types of engine service work are the same for C.O.E. Ford trucks as they are for conventional Fords.

ROOMY, INSULATED, EASY-RIDING TRUCK CABS



There's plenty of elbow room and leg room in the Ford welded all-steel C.O.E. cab. Individual lounge-type seats are adjustable to two positions. Instruments are grouped for easy reading. Ford Shiftoguide Speedometer shows drivers best time to shift gears. Edge of door glass is protected by a reinforcing channel. Safety glass standard in doors as well as windshield and rear window. Big, wide doors are hinged at front. Hand holds conveniently located outside of cab.



A large screened ventilator is located in the cowl on each side of the Ford C.O.E. cab.

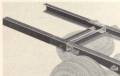


Rock wool lined engine cover insulates the cab against heat and sound.

PLUS-VALUES IN TRUCK EQUIPMENT



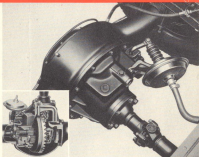
VACUUM POWER BRAKE EQUIPMENT included in 2-ton, is also available in 1½-ton. Vacuum chamber supplies braking power to integral hydraulic slave cylinder in proportion to pedal pressure, requires less "muscle-power."



FRAME EXTENSIONS, optional at extra cost, fit into ends of frame side rails, add up to 50 inches to frame length.



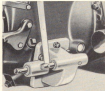
For tough, multi-stop operations, a special semi-synchromesh BUS-TYPE CLUTCH is available at extra cost. Clutch has special facings, spring pressure is greater.



High range of 2-SPEED AXLE reduces engine r.p.m., saves on gas, oil and engine wear. Low range steps up power when extra pulling effort is needed. Dash button controls vacuum-operated shift. 2-speed axle included on 2-ton, available on 1½-ton, has 8.25/20 dual tires.



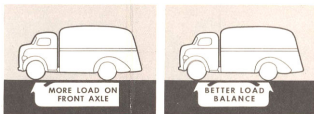
Optional at extra cost is a GOVERNOR which guards against excessive engine and road speeds.



Your Ford dealer makes available a POWER TAKE-OFF which bolts to opening in 4-speed transmission case.

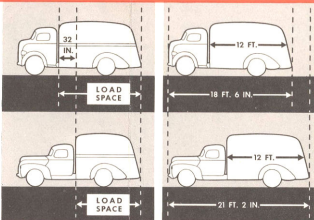
Here's Why FORD CAB-OVER-ENGINE TRUCKS CAN IMPROVE DELIVERY SERVICE . . . CUT HAULING COSTS

C.O.E. trucks carry bigger total loads without increasing the weight on the rear axle because their "close-coupled" design results in transfer of more load to the usually under-loaded front axle.



With bigger loads on the front axle, C.O.E. trucks achieve a better load balance. This equalizes tire loading for more even wear, makes front brakes more effective, improves riding qualities for driver.

Cab-over-engine trucks offer more load space than conventional trucks with the same wheelbase. In Ford C.O.E. design, the cab is moved forward about 32 in. Thus, a 158-in. C.O.E. Ford has ample load space for bodies in the 15-foot range, compared to a range of only 12 feet for conventional 158 in. trucks.

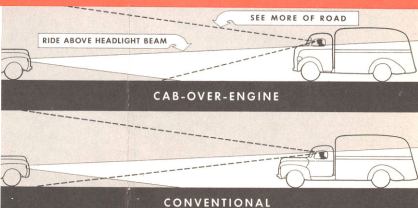


Greater compactness of C.O.E. design reduces truck length. Over-all length of a C.O.E. Ford with 12-ft. body is about 18½ ft.; for a conventional truck with the same body, just over 21 ft. Shorter length saves garage space, makes for easier parking, helps keep tractor-trailer length within legal limitations.

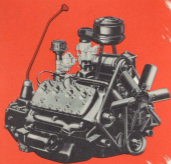


A 101-inch Ford C.O.E. turns in a circle with a diameter of 38 ft. for a conventional 134-inch truck with the same body requires a 55 ft. circle. Thus, C.O.E. trucks reduce tiresome truck "jockeying."

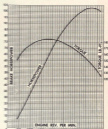
The driver in a Ford C.O.E. cab rides about 7 inches higher than one in a conventional cab. This increases the driver's angle of visibility, enabling him to see over the tops of cars in traffic, and more of the road directly ahead. Important, too, is the fact that at night, his eyes are above the beam of oncoming headlights.



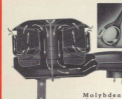
Powered By The Great 100 H. P. FORD V-8



America's only V-8 truck engine develops 100 H.P. and torque of 180 lbs.-ft. Overlap of V-8 power impulses results in a smoother, steadier power flow — higher sustained torque at most-used speeds. Compactness of design minimizes distortion of block, keeps bearings in line. Features: micro-finish cylinder walls, counter-balanced crankshaft, removable main bearings, self-lubricating water pumps, pressure valve radiator cap, divided flywheel housing, crankcase ventilation, plus many others.



V-8 water jacketing is **FULL LENGTH PLUS** with jackets extending into walls of crankcase. Cylinder heads interchangeable right or left, are **TURBO-CONTOURED** to create high turbulence, promote efficient combustion. **PRECISION-SET** valves eliminate need for valve adjustment. **PISTON PINS** are longer-lived, floating type.



New light-weight **aluminum PISTONS**, cam-ground for good fit at operating temperatures, feature low inertia load on bearings, freedom from ring sticking, good lubrication. Piston rings: 2 for compression, 2 for oil control.



Oil bath AIR CLEANER removes dirt from air, prevents undue wear on engine parts.

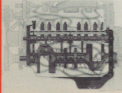
↑ **New double-duty Silvaloy connecting rod BEARINGS**, offering 2½ to 3 times longer life, are of removable type. Bearings "float" feature bearing surfaces on both sides of shell.



↑ **Thermostatic VALVE** regulates intake manifold temperature, speeds vaporization, improves fuel economy.

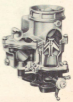


↑ **New sealed-dry DISTRIBUTOR**, driven directly off camshaft, is water-sealed, air-cooled, short-proof, trouble-free. Two sets of points used to open and close circuit.



↑ **All main, camshaft and connecting rod bearings LUBRICATED** under pressure by positive gear-type pump. Oil flows to bearings through passageways in block, not through exposed tubing. Positive spray lubricates cylinder walls, pistons, pins, valves, etc.

Carburetor in **C.O.E. Fords** is same dual **DOWNDRAFT** type used in regular Ford trucks. Balanced for variable restrictions in air cleaner.



FORD CAB-OVER-ENGINE TRUCK SPECIFICATIONS

1½-TON AND 2-TON MODELS

THE 100 H. P. V-8 ENGINE

THE C. O. E. CHASSIS

DIMENSIONS—Bore 3.187 inches. Stroke 3.75 inches. Piston displacement 259 cu. in. Compression ratio 6.75 to 1.

POWER—Brake horsepower 100 at 3000 rpm. Maximum torque 180 lbs.-ft. at 2000 rpm. Taxable horsepower rating 52.5.

ACCESSIBILITY—Sides or complete isolated cove in cab quickly removable giving unusual access to engine for fast, easy maintenance. Each side retained by four quick-action wing latches.

ENGINE BLOCK—Ford one-piece Y-8 alloy iron casting of both banks of cylinders, exhaust passages and crankcase. Extended full-length water jackets. Precision close-finish cylinders.

CYLINDER HEADS—Turbo-tube-type combustion chamber design providing high compression performance without detraction using standard grade gasoline. Fully interchangeable, right and left.

CRANKSHAFT—Ford cast alloy steel. Fully counterbalanced, integral counterweights. Weight 69.2 pounds. Three large, replaceable, precision-type main bearings with total surface area of 38.955 sq. in.

CONNECTING RODS—Heat-treated alloy steel forgings. Mounted side-by-side in pairs on Ford standard Silvaloy bearings of fitting, replaceable, precision type. Piston pin bushings special bronze, diamond bored.

PISTONS—Cast-ground aluminum alloy. Four rings—two compression and two oil control type for lasting oil economy. Floating-type piston pins with bearing surfaces in both rod and piston.

CAMSHAFT—Ford wear-resisting, cast alloy iron. Mounted on three removable, steel-backed babbit bearings. Precision-machined aluminum timing gear.

VALVES—Special heat-resisting, high chrome alloy steel. Non-ferrous valve stems. Lightweight, hollow-steel, one-piece valve lifters. Each valve, valve guide, spring and retainer assembled and installed as a unit with precision-set valve clearance. Valve springs shock-blended and run-proofed for long life.

VALVE SEAT INSERTS—Alloy steel for intake and exhaust valves.

ENGINE LUBRICATION—Direct pressure oiling to all main, connecting rod and camshaft bearings; also to timing gears. New rear main bearing oil seal. Larger oil pump with greater reserve capacity. Removable plate in oil pan to facilitate cleaning pump screen. Replaceable cartridge type oil filter.* Directed-flow crankcase ventilation. Crankcase oil capacity 9 quarts.

COOLING—Two centrifugal water pumps, self-sealing and self-lubricating type. Full length water jackets, completely surrounding each cylinder. Heavy duty fan blade and fan type radiator in "U" type flexible mounting. Thermostatic temperature control. Pressure-valve radiator cap. Six-blade fan. Deep-type fan shroud.

FUEL SYSTEM—Balanced, dual downward-pressure with duplex intake manifold. Automatic control of intake manifold temperature. Offset type, oil bath air cleaner with shroud over carburetor intake.*

IGNITION—Sealed-breaker, V-valve direct-drive distributor. Two non-synchronized breaker arms for greater spark intensity. Fully automatic spark advance with vacuum-controlled centrifugal governor. Non-ferrous-coated, high-corrosion leads protected by heavy copper-resin-coated plastic jackets and metal conduits. Coil in waterproof housing.

GENERATOR—220 watt capacity, 30 to 33 amperes, air cooled, heavy duty type, with separate voltage and current regulator relays.

STARTING MOTOR—High torque type with automatic engagement, actuated by instrument panel push button and solenoid starter switch.

BATTERY—Ford heavy duty, 17-plate, 120 ampere hour capacity.

MOUNTING—Three-point cushion-type engine suspension.

CLUTCH—Long-lived, semi-centrifugal type with single cushion disc and vibration damper. Diameter 11 inches. Total frictional area 123.7 sq. in. Pre-lubricated and sealed ball pilot and throw-out bearings. Needle-bearing release levers.

TRANSMISSION—Heavy-duty, 4-speed, sliding gear type. Roller and ball bearings in all forward speeds. New internal spring-type reverse lock. S.A.E. 6-bolt opening on right side for power take-off.

DRIVE LINE—One universal shaft, two joints on 101" wh.; two universal shafts with three joints and rubber-encased center bearing on 134" wh. and 158" wh. Universal joints wear resistant, needle-bearing type.

FRONT AXLE—Wide track, heavy, drop-focused, heat-treated alloy steel 1¾-ton, large, side-splated, tapered roller wheel bearings. Anti-friction ball thrust bearings on spindle plate.

REAR AXLE—1½-TON—Full-floating, spiral wheel, with straddle-mounted piston. Forged, special manganese steel axle shafts, 1.75 inches diameter over splines. Hub and adapters. Ratio: 54, 6.67 to 1—opt. 5.14 to 1; 5.83 to 1.

2-TON—Two-speed, full-floating type. Primary (high range) reduction by spiral bevel gear with straddle-mounted piston; supplementary (low range) reduction by planetary spur gears. Forged, alloy steel axle shafts, 1.75 inches diameter over splines. Hub and adapters. Vacuum operated shift. Gear ratios 5.83 to 1 and 8.11 to 1.

FRAME—Heavy-duty design. Width 54 inches. Side members depth 7 in., flange width 2.75 in., thickness 0.25 in. Double-channel type on 134" wh. and 158" wh. only with specially formed reinforcing channels. Head inside regular side-members, affording generous extra strength in areas of greatest stress—included on 2-ton, available* on 1½-ton.

SPRINGS—Special alloy steel. Front leaf 48 in., width 2.25 in., Rear leaf 45 in., width 2.5 in. Five-leaf auxiliary springs, included on 2-ton, available* on 1½-ton.

STEERING—Worm and needle bearing collar. Ratio 18.4 to 1. Diameter of steering wheel 18 in. Gear mounted ahead of front axle; short, direct-acting drag link.

BRAKES—1½-TON—Service: Hydraulic, independently anchored, two-shoe type. Front: 14 in. x 2 in. Rear: 15 in. x 3.5 in. Lining area 503 sq. in. Composite brake drums, cast iron rings and steel drum discs. Interlock weather-shall brake enclosures. Hand brake: 7.81 in. x 2.5 in. spring-loaded type on drive shaft. Vacuum power braking optional on extra cost. 2-TON—Same as 1½-ton, and includes vacuum power braking.

WHEELS AND TIRES—3½-TON—Seven tapered disc steel wheels, 20-inch diameter with 5.905 rims.* Six tires, 7.50-20 8-ply front and dual rear.* 8.25-20 10-ply dual rear furnished with 2-speed axle option. 2-TON—Seven tapered disc steel wheels, 20-inch diameter with 5.905 rims. Six tires, 7.50-20 8-ply front—8.25-20 10-ply dual rear.

TREAD—Front 61.12 in. Rear 65 in.

TURNING RADIUS—19 ft. for 101" wh.; 25 ft. for 134" wh.; 29 ft. for 158" wh.

WHEELBASES—101, 134 and 158 inches.

TYPICAL EQUIPMENT—Includes complete cab assembly; front fenders, steel plates and running boards; two side oval ventilators; divided windshield—opening type; two wiper doors hinged at front; conventional hand-held, 22-gallon fuel tank; spare wheel carrier; front bumper; jack and tool kit.

MAX. GROSS WEIGHT—1½-Ton (Single Red Axle)—13,500 lbs. —2-Ton (2-Speed Axle)—15,000 lbs.

LOAD SPACE DIMENSIONS—

101" wh.	134" wh.	158" wh.	
Back of cab to C/I, rear axle.....	69 in.	93 in.	117 in.
Back of cab to end of frame.....	98.5 in.	131.5 in.	155.5 in.

Equipment marked () are items at extra cost. These items are currently standard on C.O.E. chassis in production and included in the basic retail list price, although allowances for removal of any of this equipment will be made on request. (The Ford Motor Company, whose policy is one of continuous improvement, reserves the right to change specifications, design or prices without incurring obligation.)*

Ford Motor Company • Dearborn, Michigan

FORD TRUCKS