1940 FORD V8 TRUCKS



3 TON

4 TON

5 TON

SPECIFICATIONS

ENGINE—100 H.P.: Bore 3-3/16 in., stroke 3\(\frac{1}{4}\) in. Piston displacement 239 cub. In. B.H.P. 100. Engine torque over 180 ft. lbs. from 1.150 to 2.400 R.P.M. Taxable horsepower rating 32.5

85 H.P.: Bore 3-1/16 in., stroke 33 in. Piston displacement 221 cub. in. B.H.P. 95. Engine torque 170 ft. lbs. at 2,200 R.P.M. Taxable horsepower rating 30.

CLUTCH—Heavy duty type with plate pressure increased by centrifugal force. 5-Ton truck has special clutch of similar design built for greater engine torque transmission. Cushioned hub with vibration damper. Clutch diameter 11 in.

TRANSMISSION—Heavy duty type, 4 forward speeds. Ball and roller bearings in all forward gears. Power take-off opening, with power take-off optional as extra.

UNIVERSAL JOINTS—Needle roller bearing type, fully enclosed and permanently protected against dust and mud. Centre universal is rubber mounted for greater anti-friction efficiency.

FRAMES—High corbon pressed steel for 3-ton units, elastic limit 42,000 lbs, per aq. in. 4 and 5-ton frames are dual section high carbon pressed steel outer frame with high tensile steel inner frame, elastic limit 54,000 lbs, per sq. in. 176 in. W.B. 3. 4. and 5-ton and bus chosses have high tensile channel and laserts with special triple frame. 194 in. W.B. 5-ton frame is of special triple section, 91 in. deep. 3 in. wide, and 5/9 in. high.

AXLES—Front: Carbon managenese steel, drop centre type, large I beam section.

Rear: Full floating with spiral bevel gear drive, straddle mounted pinion and
crown wheel thrust piate. Ratio 6.86 to 1 for 3 and 44 on trucks (optional 2-speed
axie ratios 5.33 and 8.11 to 1). 5-Ton truck has heavy duty 2-speed axie as
standard equipment, ratios 8.3 and 8.81 to 7.

SPRINGS—Heavy duty semi-elliptic front and rear. Auxiliary rear springs standard in all models. Total spring capacities: 3-ton, 15,450: 4-ton, 17,050: 5-ton, 18,800. C.O.E.: 3-ton, 16,200: 4-ton, 17,800: 5-ton, 19,850.

STEERING-Worm and roller type, ratio 18.4 to 1. Steering wheel 18 in, diameter.

WHEELS—3-ton 7 20 in. x 6 in. 4-ton models 2 20 in. x 6 in. front and 5 20 in. x 7 in. rear. 5-ton models 7 20 in. x 7 in.

TYRES—3-ton 6 32 x 6, 10-ply. 4-ton 2 7.00×20 front and 4 34 x 7, 10-ply rear. 5-ton 6 34 x 7, 10-ply. 176 in. and 194 in. W.B. Bus: 6 7.50×18 , 8-ply.

BRAKES—Powerful hydraulic. Front 14 in. \times 2 in., rear 15 in. \times $3\frac{1}{2}$ in. Independent handbrake system operating on drive shaft has lining area of 61.5 sq. in. Total braking area 385 sq. in.

GROSS VEHICLE CAPACITIES—3-ton: 14,500 lbs. 4-ton: 16,000 lbs. 5-ton: 18,000 lbs.

Ford Motor Company of Australia Pty. Ltd., whose policy is one of continuous improvement, reserves the right to change specifications and prices at any time without notice or incurring liability to purchasers.

FORD MOTOR COMPANY OF AUSTRALIA PTY. LTD. (INCORPORATED IN VICTORIA). REGD. OFFICE, GEELONG.

LONG LIFE FEATURES OF FORD V-8 ECONOMY ENGINE



VALVE INSERTS are tungsten steel for both intake and exhaust valves—a unique Ford V.8 feature.

DISTRIBUTOR is direct driven from the front end of camshaft, eliminating back lash and assuring correct timing. Is foolproof and waterproof. MIRROR FINISHED CYLIN-DER WALLS permit of greater accuracy in fitting pistons and rings and result in smoother more efficient operation with less cylinder and piston ring wear.



FULL LENGTH WATER JACKETS completely encircle the cylinders from top to bottom and extend down the crenkcase wells. Oil temperature is thus kept uniform providing better lubrication, retarding engine wear and giving longer life to all engine parts.

DETACHABLE MAIN BEAR-INGS (below). Radded tongues on the main bearing caps fit into corresponding grooves in the block—a costly but positive method of securing perfect bearing alignment.

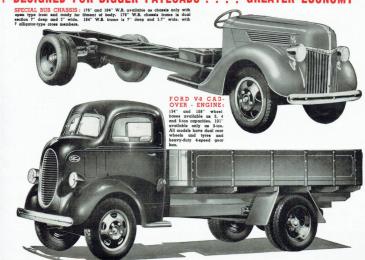
CAST ALLOY CRANKSHAFT. The crankshaft used for the Ford V-8 truck is of special cast alloy steel, extremely hard, rigid and long wearing.

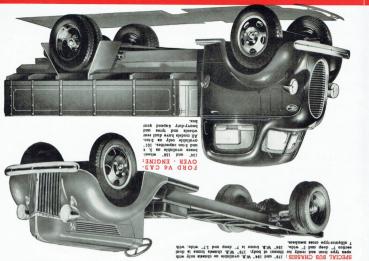




AUSTRALIA'S MOST POPULAR HEAVY-DUTY TRUCKS NEWLY DESIGNED FOR BIGGER PAYLOADS GREATER ECONOMY











NEWLY DESIGNED FOR BIGGER PAYLOADS AUSTRALIA'S MOST POPULAR HEAVY-DUTY TRUCKS

SPECIFICATIONS

GREATER ECONOMY

ENGINE-100 H.P.: Bore 3-3/16 in., stroke 31 in. Piston displacement 239 cub. in. 3.H.P. 100. Engine torque over 180 ft. lbs. from 1.150 to 2.400 R.P.M. Taxable

85 H.P.: Bore 3-1/16 in., stroke 3½ in. Piston displacement 221 cub. in. B.H.P. 95. Engine torque 170 ft. lbs. at 2,200 R.P.M. Taxable horsepower rating 30.

CLUTCH—Heavy duty type with plate pressure increased by centrifugal force. 5-Ten truck has special clutch of similar design built for greater engine torque transmission. Cushioned hub with wibration damper. Clutch diameter 11 in. TRANSMISSION—Heavy duty type, 4 forward speeds. Ball and roller bearings

in all forward gears. Power take-off opening, with power take-off optional

UNIVERSAL JOINTS—Needle roller bearing type, fully enclosed and permanently protected against dust and mud. Centre universal is rubber mounted for greater anti-friction efficiency.

FRAMES—High carbon pressed steel for 3-ton units, elastic limit 42,000 lbs. per sq. in. 4 and 5-ton frames are dual section high carbon pressed steel outer frame with high tensile steel inner frame, clastic limit \$4,000 lbs. per sq. in. frame with angle tensile steel their name, etc. and to the channel and Inserts with special triple frame. 194 in. W.B. 5-ton frame is of special triple section, 9 in. deep, 3 in. wide, and 5/8 in. thick.

AXLES—Front: Carbon manageness steel, drop centre type, large I beam section.

Rear: Full floating with spiral bevel gear drive, straddle mounted pinion and
crown wheel thrust plots. Ratio 6.58 to 1 is 73 and 4-ton truck optional 2-speed
axle ratios 3.83 and 8.11 to 1). 5.Ton truck has heavy duty 2-speed axle as stemdard equipment, traits 6.3 and 8.81 to 1.

SPRINGS—Heavy duty semi-elliptic front and rear. Auxiliary rear springs standard in all models. Total spring capacities: 3-ton, 15,450; 4-ton, 17,050: 5-ton, 18.800. C.O.E.: 3-ton, 16.200; 4-ton, 17.800; 5-ton, 19.850.

STEERING-Worm and roller type, ratio 18.4 to 1. Steering wheel 18 in. diameter WHEELS-3-ton 7 20 in. x 6 in. 4-ton models 2 20 in. x 6 in. front and 5 20 in. x 7 in. rear. 5-ton models 7 20in. x 7 in.

TYRES—3-ton 8 32 x 6, 10-ply. 4-ton 2 7.00 x 20 front and 4 34 x 7, 10-ply rear. 5-ton 6 34 x 7, 10-ply. 176 in. and 194 in. W.B. Bus: 6 7.50 x 18. 8-ply.

BRAKES-Powerful hydraulic. Front 14 in. x 2 in., rear 15 in. x 3\frac{1}{2} in. Independent handbrake system operating on drive shaft has lining area of 61.5 sq. in. Total braking area 365 sq. in.

GROSS VEHICLE CAPACITIES-3-ton: 14.500 lbs. 4-ton: 16.000 lbs. 5-ton:

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steel for both intake and from the front end of camexhaust valves—a unique Ford shaft, eliminating back lash

and assuring correct timing. Is foolproof and waterproof.

VALVE INSERTS are tungsten DISTRIBUTOR is direct driven MIRROR FINISHED CYLIN-MIRROR FINISHED CYLIN-DER WALLS permit of greater accuracy in fitting platons and rings and result in smoother more efficient operation with less cylinder and piston ring wear.



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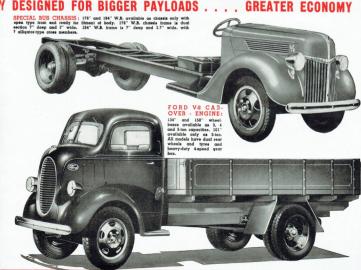
3.H.P. 100. Engine torque over 180 ft. lbs. from 1.150 to 2.400 R.P.M. Taxable ENGINE-100 H.P.: Bore 3-3/16 in., stroke 34 in. Piston displacement 239 cub. in.

SPECIFICATIONS

AUSTRALIA'S MOST POPULAR HEAVY-DUTY TRUCKS NEWLY DESIGNED FOR BIGGER PAYLOADS









maintained this coveted position for many years is proof positive of the extra value, pound for pound, that discerning buyers have found in Ford V-8.

Now, for 1940 the Ford heavy duty range is entirely NEW - with new wheelbase lengths, new frames, new semi-elliptic springs both front and rear, 2 new 2-speed axles, new, more striking appearance. new and greater engine accessibility, new driver comfort with redesigned all-steel cabs, pivot front quarter-windows for controllable, draught-free ventilation and screenwipers mounted at base of windscreen. Entirely new, also, is the Hotchkiss final drive with completely enclosed needle-roller bearing universal joints.

This host of new value features, the bigger range of models to choose from, the still further reduced upkeep and maintenance costs, make Ford V-8 undoubtedly your best buy for 1940. Safeguard your profits . . . invest in Ford V-8 - the one truck designed to meet the year's changed conditions, with still GREATER payloads at LOWER operating costs.

MONEY SAVING ENGINE EXCHANGE PLAN.

when the time comes for engine overhead, drampe with your local Ford Dealer for an exchange engine. Leave your Truck with him and 6 or 7 hours later drive it away again with a



NEW CUSHIONED DRIVE LINE Needle roller bearing universal joints are completely enclosed and permanently pro tected against dust and mud, and encased in rubber mountings for greater anti-friction

All Ford V-8 5-tonners have dual frames (right) 134", 158" W.B. and C.O.E. frames are 7 in. deep, 2½ in. wide, § in. thick. 176" W.B. frames (right) are 7 in. deep. 3 in. wide, and in. thick, 194" W.B. frame (left) is 9 in. deep. 3 in. wide, and § in. thick. Frames are designed to give a large margin of safety, and being of dual type will with.

Designed for hard service, the gears are big and sturdy as the shafts that carry them. All gears and main shaft are machined from high quality oil-hardened chrome alloy steel, care fully heat treated to provide a hard-resisting surface on the outside of the teeth; underneath this hard surface is a strong tough core to prevent breakage. This also is true of the splines in the centre of the gears and those of the main shaft on which the gears slide when

TWO-SPEED AXLE: This cut-away section illustrates where the reduction takes place. Selector fork operated by flexible steel cable and rod from lever in the cab ensures quiet, easy changes at all speeds. Gears are of the planetary type with splines cut on the inside of the massive crown wheel (illustrated below). Axis housings created the control of the massive crown wheel control of the control of the massive crown wheel control of the control of the massive crown wheel control of the contro forged from seamless steel tapered and electrically welded for super strength. Crown wheel diameter is increased to $12\frac{1}{4}$ in. and differential gears and pinions are correspondmounted, and 4 differential agers are used.

in, thick, for 194 in, W.B. 5-tonner.

THE FORD V-8 HEAVY DUTY CHASSIS, 5-TON: Available in 134", 158", 176" and

194" wheelbases with heavy duty Ford V-8 engine of 3-3/18ths in. bore developing more

than 180 ft. lb. torque. Helper springs and heavy duty 2-speed axle standard equipment.

2 SEPARATE BRAKING SYSTEMS.

Big powerful hydraulic brakes mean oth, straight stops all the time. Rear drums are 15 in, diameter, with shoes 3.5 in. wide (illustrated). Area of brake lining is 303 sg. in. In addition to this. ate hand brake with a drum 7.8 in. by 2.5 in., and a lining area of 61.5 sq. in. operates on the transmission shaft directly behind the gear box.





Not only is an Engine Exchange under the Ford Engine

Exchange Plan lower in price than a complete engine overhaul. but also it pays for itself in time saved alone. For Bus Proprietors, Haulage Contractors, and all who cannot afford to have their vehicles off the road for long periods, the Engine Exchange Plan, exclusive to Ford owners, is a real When the time comes for engine overhoul, arrange with you

factory reconditioned engine as good as new, carrying the same warranty as a new engine and giving, of course, the same powerful economical performance. The Engine Exchange Plan is available irrespective of mileage, whether it be 50,000 or 100,000 miles.



L is one of the release levers, all three of which are shown in the smaller illustration belaw Note weighted outer and W. Each lever is mounted on the pressure plate by means of a pin and roller bearing B. The levers are also attached to the

clutch cover by flattened pin, and roller R. As the engine speed increases, centrifugal force, acting on the outer weighted ends of the levers, causes them to swing forward as indicated by the arrow, and evert increasing pressure against the clutch plate P. The centrifugal force action supplements the pressure normally exerted against the plate by the clutch springs, one of which, S, is shown. This increases the clamping action on the disc, which in turn increases the power transmitting ability

Ford semi-centrifugal clutches stand up in the hardest service because centrifugal action builds up their power transmitting capacity far in excess of maximum engine torque. Therefore, the clutch is capable of delivering full engine torque without slippage. Slippage during clutch engagement when the truck is getting under way is also reduced. As a result, wear on the clutch facings and pressure plate is minimised. Another feature of Ford clutches appreciated by every truck driver is the easy pedal pressure at gear shifting speeds. This is possible because

centrifugal force builds up the pressure on the plate so that the total spring pressure of the springs can be kept low. Release bearing and pilot bearing are prelubricated type.

Special cushioning springs are used between the clutch disc and facing to make clutch engagement easier when starting. This prevents chattering or grabbing. Elimingting larky starts it gyoids unnecessary strain on drive line and rear axle, and in this way adds to the general reliability of the unit. fixed at the forward end and free shackled at rear. 5-Ton carrying capacities: Rear, 15,600 lbs.; front, 3,200 lbs.; total, 18,800 lbs. All six pins over the rear springs are interchangeable. Spring leaves are of chrome alloy steel. Helper springs are standard

pinion and crown wheel thrust plate to ensure







equipment on all 3, 4 and 5-ton models.





