



MODEL B-30T



UNMATCHED performance and owner profits at lowest overall cost, are built into the B-30T, latest Mack tractor engineered to excel in 35,000 GCW capacity range. Performance proved standard components and carefully selected optionals for tractor work, account for the high prestige of this efficient and economical unit.

Tremendous pulling power is furnished by a Magnadyne engine designed and built in Mack's own factory to the same high manufacturing standards that have made Mack a symbol of quality. Thoroughly a truck engine, the EN 331 develops 122 BHP at moderate speed.

Dependable drive is through a sure-grip oversized clutch which engages without grab or jerk, and rugged five-speed transmission, direct or overgear. Transmission gears possess great endurance and all moving components are precision machined and assembled to insure durable trouble-free service. Easy shifting is another advantage of this transmission.

Three types of rear axles which are available to meet specific operating requirements enhance the flexibility of this sturdy tractor. Reliability is the prime characteristic of either the Single-Reduction, Dual Reduction or two-speed axle. Newly designed Vari-rated heavy-duty rear springs which are progressive in action, are responsible for excellent riding qualities of this model.

Complete driver satisfaction will be found in the new all-weather cab. Also available are Hydrovac brakes or full air brakes. Positive control and long life are vital features of the powerful braking systems of exceptional large dimension and structural strength.

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STANDARD EQUIPMENT

Condensed Specifications

WHEELBASE —146½". **Platform**—112"

ENGINE:

Model _____ EN 331 Magnadyne
 Number of cylinders _____ Six
 bore and stroke _____ 4" x 4½"
 Piston displacement, cu. in. _____ 330
 Maximum horsepower (i) 3200
 r.p.m. _____ 130
 Brake horsepower (ii) 2800
 r.p.m. (gov.) _____ 122
 Max. torque @ 1400 r.p.m.
 Pound-feet _____ 264

CLUTCH:

Model _____ CL 472
 Type _____ Single-plate, dry
 Area of engagement, sq. in. _____ 202

FUEL SYSTEM:

Carburetor _____ Zenith, dual downdraft
 Tank capacity & location _____ 22 gal.; left apron

COOLING SYSTEM:

Radiator, type _____ Continuous-finned, flat
 tube
 Frontal area, sq. in. _____ 560
 Thermostat _____ Bellows, warm-
 circulation
 Water pump _____ Centrifugal
 Fan, material _____ Pressed steel
 Type _____ Asymmetrical
 Water Capacity of system _____ 28 quarts

ELECTRIC SYSTEM:

Voltage and capacity _____ 6V, 40 Amp
 Generator, make _____ Delco-Remy
 Starting motor, make _____ Delco-Remy
 Battery, make _____ Exide or Auto-Lite
 Number required _____ One (6V)
 Location _____ Right apron

TRANSMISSION:

Model _____ TR 73 (Fuller)
 Type _____ Selective, constant mesh
 No. of speeds, forward _____ Five
 reverse _____ One
 Ratios, 5th 1.00; 4th 1.42; 3rd 2.57; 2nd 4.30; 1st 7.55;
 Rev. 7.37

DRIVESHAFTS:

Location _____ Front and rear
 Diameter _____ 3" welded steel
 Wall thickness _____ 0.095"
 Center support _____ Swing type, rubber
 bushed, with single-
 row ball bearing

FRONT AXLE:

Model _____ FA 301
 Basic rating _____ 6,000 lbs.
 Type _____ Reversed Elliott, I-beam

REAR AXLE:

Model _____ RA5 301
 Basic rating _____ 16,000 lbs.
 Final drive _____ Single-reduction
 Housing, material _____ One-piece housing,
 formed from tubular
 stock, heat-treated
 Axle shafts, material _____ Chromium-molybde-
 num steel, heat-
 treated
 Final ratios _____ 5.03, 6.14, 6.86 to 1

BRAKES:

Type _____ Internal expanding,
 inclosed
 Actuation _____ Vacuum-hydraulic
 Front, size _____ 18" x 2½" x ½"
 Rear, size _____ 15" x 5" x ½"
 Total braking area, sq. in. _____ 457
 Hand, size _____ 10" x 5" x ½"
 Lining area, sq. in. _____ 85

FRAME:

Type, front _____ Downward taper
 rear _____ Straight
 Material _____ Pressed carbon steel
 Side-members, size _____ 9" x 5¼" x ½"
 Section modulus _____ 9.76
 No. of cross-members & type _____ Three channel

SPRINGS:

Front, type _____ Semi-elliptic
 size, length _____ 46"
 width _____ 2½"
 Leaf thickness _____ 0.560" (9 leaves)
 Rear, type _____ Vari-rate, semi-elliptic,
 with three leaf
 radius rod
 size, length _____ 59" no-load 46" loaded
 width _____ 3"
 Leaf thickness _____ 0.447" (8 leaves)
 Suspension, front _____ Rubber Shock Insuli-
 tors, front end; fixed
 pin, rear end
 rear _____ Cam type variable
 action brackets



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CHASSIS DIAGRAM



WB	OL	LP	CA	AF	Tire Size	OH	RH	OT	RT	BT
146 1/2	220	112	72	40	9.00-20	91	35 1/4	92 1/2	70 1/2	48 1/2

Note: All dimensions are shown in inches.



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