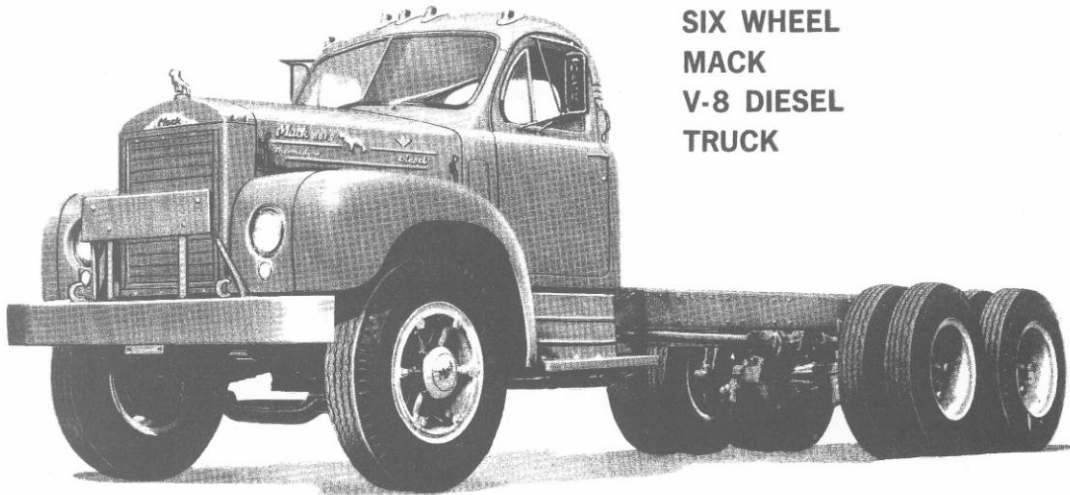




B-615S

SIX WHEEL
MACK
V-8 DIESEL
TRUCK

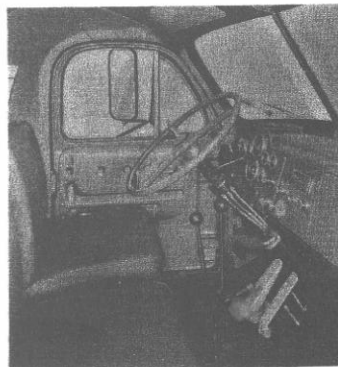


Mack traditional dependability and high quality workmanship assures this six-wheeler as a leader in heavy-duty truck operations.

The need for a high horsepower engine with minimum weight is reliably met by Mack's V-8 diesel, the END 864. Excellent fuel economy, dependability and low maintenance costs are profit-making features of this naturally aspirated engine, which produces 255 horsepower. Also available as an option is the custom economy rating of 237 horsepower.

A wide choice of optional axles and transmissions means the matching of the vehicle to the job can be more easily accomplished. This in turn leads to better adaptability, lower cost per mile and less down time.

The comfortable cab has been designed to give years of service. Particular attention has been given to the controls, steering and road visibility features in an effort to assure greater safety and reduce driver fatigue.



Comfortable and constructed for endurance, cab model CA 215 is designed to assure driver safety and convenience by an excellent arrangement of instruments and controls, a roomy interior, weather and fume protection, ample road visibility and a comfortable driver's seat that is fully adjustable.

MACK TRUCKS, INC.

MODEL B-615S STANDARD EQUIPMENT

WHEELBASE — 170½" Platform — 144"

ENGINE: (Diesel)

ModelEND 864
MakeMack
Type, ThermodyneNaturally aspirated, V-8
Number of cylindersEight
Bore and stroke5" x 5½"
Piston displacement, cu. in. 864
Brake horsepower @ 2300
r.p.m. (gov.)255
Max. torque @ r.p.m.1700
Pound-feet639
Lube oil filter (12 qts.) ...Comb. full-flow/by-pass
Lube oil coolerTube and shell

CLUTCH: (Mack)

ModelCL 50, with clutch brake
TypeTwo-plate, dry
Outside dia., facing14"
Area of engagement, sq. in. 416

FUEL SYSTEM:

Fuel injection pumpAmerican Bosch, PSJ
TypeSingle plunger
TimingVariable
GovernorAmerican Bosch
Tank capacity & location ..22 gal., left side

COOLING SYSTEM:

Radiator, typeContinuous-finned, flat tube
Frontal area, sq. in.1000
Thermostats, to open170°
Water capacity of system ..55 quarts (approx.)
Water conditionerPerry

ELECTRIC SYSTEM:

Voltage and capacity12 V., 55 Amp., with 24
Volt starting
Generator, makeDelco-Remy
Starting motor, makeDelco-Remy
Battery, makeExide or Auto-Lite
Plates per cell23
Amp. hr. @ 20 hr. rate. 160
Number requiredFour (6V)
LocationTwo—left side, two—
right side

TRANSMISSION: (Mack)

ModelTRD 7220
TypeNine-speed, overgear,
two-lever, Duplex

R A T I O S

Shift	High Range	Low Range
5th	0.78	1.02
4th	1.00	1.31
3rd	1.76	2.29
2nd	3.13	4.09
1st	5.45	7.12
Rev.	5.45	7.12

DRIVESHAFTS:

Tube3½", 0.156" wall
JointsYoke type
Make and sizeSpicer, 1650 and 1550
(Inter-axle)

FRONT AXLE: (Mack)

ModelFA 517
TypeReversed-Elliott, I-beam

BOGIE: (Mack)

ModelSWD 57
Bogie wheelbase50"
DriveFour-wheel straight through
Inter-axle differentialMack Power Divider
Housing, constructionPressed steel, fused
Axle shafts, materialChromium-molybdenum
steel, induction hardened
CarriersCRDP 92 and CRD 93
Ratios6.34, 7.00, 7.49, 8.24, 9.15
Ratios 9.15, 8.24 or 7.49 recommended for dumpers and mixers.

BRAKES, AIR:

Size—Dia., width, lining area (sq. in.) & lining thickness
Front, size16½" x 4" (276); ¾"
Rear, size16½" x 6" (828); ¾"
Hand, size12" x 5" (139); ¾"
CompressorTu-Flo 500 (12 cu. ft.)
Reservoir capacity2960 cu. in. (total)

FRAME:

MaterialChrome-manganese steel,
heat-treated
Side-members, size9" x 3¼" x ¼"
Section modulus9.76
Number of cross-members
and typeOne fabricated I-beam
three channel

SPRINGS:

Front typeSemi-elliptic
size, length (between
load centers)46"
width3"
Leaf thickness0.360" (11 leaves)
Rear typeSemi-elliptic (inverted)
size, length (between
load centers)50"
width4"
Leaf thickness0.788" (10 leaves)
Shot-peeningTension side of main,
second and third leaves
Suspension, FrontRubber Shock Insulators,
front end; fixed pin,
rear end
RearRubber Shock Insulators

SHOCK ABSORBERS — FRONT:

TypeHoudaille, rotary-hydraulic

TIRES:

Size10.00-20 (12P)
Rims7.5

MODEL B-615S

STANDARD EQUIPMENT (Cont'd.)

WHEELS:

Type Cast, spoke

STEERING GEAR:

Model SG 26
Type Worm and roller
Ratio 28.4
Steering Wheel, diameter: . 22"

CAB: (Mack)

Model CA 215

CHASSIS EQUIPMENT: Painting in synthetic enamel (Mack green, red, yellow, blue, orange or black); extended type front bumper; recessed sealed-beam headlights and parking lights; combination stop and tail light; electric horn; defroster nozzles, sun visor, left side; dual air-actuated windshield wipers, with single motor; two I.C.C. lights; three marker lights; low air pressure buzzer type indicator; automatic radiator shutters; automatic reset circuit breakers; tow hooks, front; rim lug wrench (or disc wheel wrench) and handle.

STANDARD CHASSIS WEIGHT (lbs.) (Est.)

Front, 6,630; Rear, 7,930; Total 14,560

OPTIONAL EQUIPMENT

WHEELBASES: (in inches)

170 $\frac{1}{2}$, 182 $\frac{1}{2}$,* 194 $\frac{1}{2}$, 222 $\frac{1}{2}$

**Shortest available wheelbase for 10-speed transmission with B-L Auxiliary installation.*

ENGINE: (Diesel)

Model ENDD 864
Brake HP @ 2000 rpm . . . 237
Max. Torque @ 1400 rpm 685 lb. ft.

TRANSMISSIONS: (Mack)

TR 7220 5-speed, overgear (with auxiliary only)
TRQ 7220 18-speed, overgear, two-lever, Quadruplex

Addition optional — TRQ 7220 with right and left side Power take-off openings in compound case.
B-L 8031 C or P — 3-speed, auxiliary, with or without Power Tower

*With TR 7220 (Power Tower Opt.), with TRD 7220.
Note: Either the TRQ or TR and B-L8031C aux. is recommended for Dumper and Mixer Service.*

FRONT AXLE: (Mack)

Model FA 522
Model FA 601
Brakes, (FA 522) 16 $\frac{1}{2}$ " x 4" (276); $\frac{3}{4}$ "
(FA 601) 17 $\frac{1}{4}$ " x 5" (355); $\frac{3}{4}$ "
Springs, (FA 601) 14 leaves (0.360")
(FA 522) 17 leaves (0.360")

BOGIE: (Mack)

SWD 571 (Same as SWD 57 except for cast steel axle housing and metal trunnion bushings).
SWD 573 (Same as SWD 57 except for cast steel axle housing).
SWD 5701 (Same as SWD 57 except for *wider brakes).
SWD 5711 (Same as SWD 571 except for *wider brakes).
SWD 5731 (Same as SWD 573 except for *wider brakes).
Brake, *Size 16 $\frac{1}{2}$ " x 7", 952 sq. in. area
SWD 574 (Same as SWD 57 except for Timken brakes).
SWD 575 (Same as SWD 573 except for Timken brakes).
SWD 5741 (Same as SWD 574 except for 7" wide brakes).
SWD 5751 (Same as SWD 575 except for 7" wide brakes).
Brake, Size (Timken, Stopmaster):
SWD 574, SWD 575 15" x 6", 754 sq. in. area

BOGIE (Cont'd.):

SWD 5741, SWD 5751 15" x 7", 880 sq. in. area

Note: Either SWD 573 or SWD 575 obligatory for Dumper and Mixer service.

FRAME:

$\frac{1}{4}$ " inside channel Obligatory for dumper or mixer service, optional for highway service

Section Modulus 17.72 (with I.C.)

TIRES:

Size	10.00-22	11.00-20	**11.00-22
Ply	12	12	12
Rim	7.5	8.0	8.0

***Overall width exceeds 96". Requires 55" bogie spacing.*

DISC WHEELS:

Type (10.00 tires) Hi-Tensile or Accu-Ride
Type (11.00 tires) Steel

ELECTRICAL SYSTEM:

Generator 12 Volt, 55 Amp. (heavy duty)
Alternator 12 Volt, 60 Amp. (heavy duty)
Alternator 12 Volt, 85 Amp. (heavy duty, includes voltmeter)

FUEL TANKS:

	Capacity and Location
Steel, Step	50 gal., left side or one each side
†Steel, Step	40 gal., right side

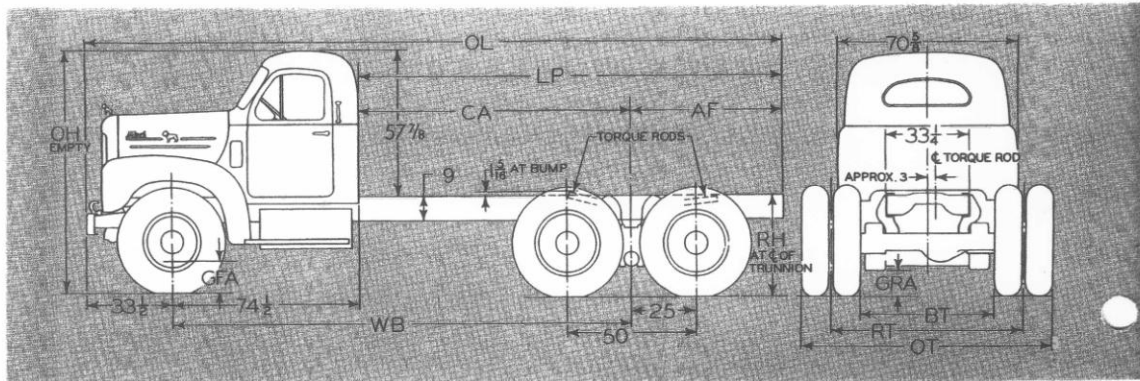
Std. tank is omitted when left side step tank is furnished.

†Obligatory in place of 50 gal. right side, step tank when vertical exhaust is furnished.

CHASSIS EQUIPMENT: Air starting; power steering; under-frame tire carrier (222 $\frac{1}{2}$ " WB only); plate type radiator guard; full trailer connections, brake and electrical, including shut-off valves (no hose or cable); hand control valve either for rear service brakes or trailer brakes; front wheel brake limiting valve; automatic drain valve; Break-away safety valve; std. shut-off valves are omitted (min. I.C.C. requirement); bogie Power Divider lock-out (manual, air valve control); engine flywheel PTO mixer drive; vertical exhaust; exhaust brake; deluxe driver seat; turn signals, front, one each side; West Coast type mirrors, enamel finish, one each side; 17,000 or 25,000 B.T.U.; hot water cab heater with defrosters; chrome plated radiator shell; air horn; extra stop-tail light; 8- or 12-ton jack; spare rim or spare disc wheel.

MODEL B-615S

CHASSIS DIAGRAM



WB	LP	CA	AF	OL	Turning Circle Dia. (Outer edge of Tire) Approx.	
					Left	Right
170 1/2	144	96	48	252	71 ft.	67 ft.
170 1/2	168	96	72	276	71 ft.	67 ft.
182 1/2	168	108	60	276	75 ft.	70 ft.
194 1/2	194	120	74	302	78 ft.	73 ft.
222 1/2	240	148	92	348	87 ft.	82 ft.

TIRE SIZE	OH Approx.	GFA	Front Tread	RH		GRA	SPOKE WHEELS		
				Loaded	Empty		OT	RT	BT
10.00-20	97 3/4	9 7/8	74 1/8	39 1/8	40%	8%	95 1/2	71 1/2	47%
10.00-22	98 3/4	10 3/8	74 1/8	40 1/8	41%	9%	95 1/2	71 1/2	47%
11.00-20	98 3/4	10	73 1/2	39 3/4	41 1/4	8%	96 1/8	71 1/4	46%
11.00-22	99 3/4	11	73 1/2	40 3/4	42 1/4	9%	97%	72 1/2	47%

Frame heights are subject to variations: 1/2" loaded, 1" empty.

Chassis dimensions are in inches and for standard chassis unless otherwise denoted.

MACK TRUCKS, INC.

Montvale, N. J.

MACK TRUCKS WORLDWIDE LIMITED • Hamilton, Bermuda

MACK TRUCKS MANUFACTURING COMPANY OF CANADA LIMITED • Toronto, Ontario, Canada

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