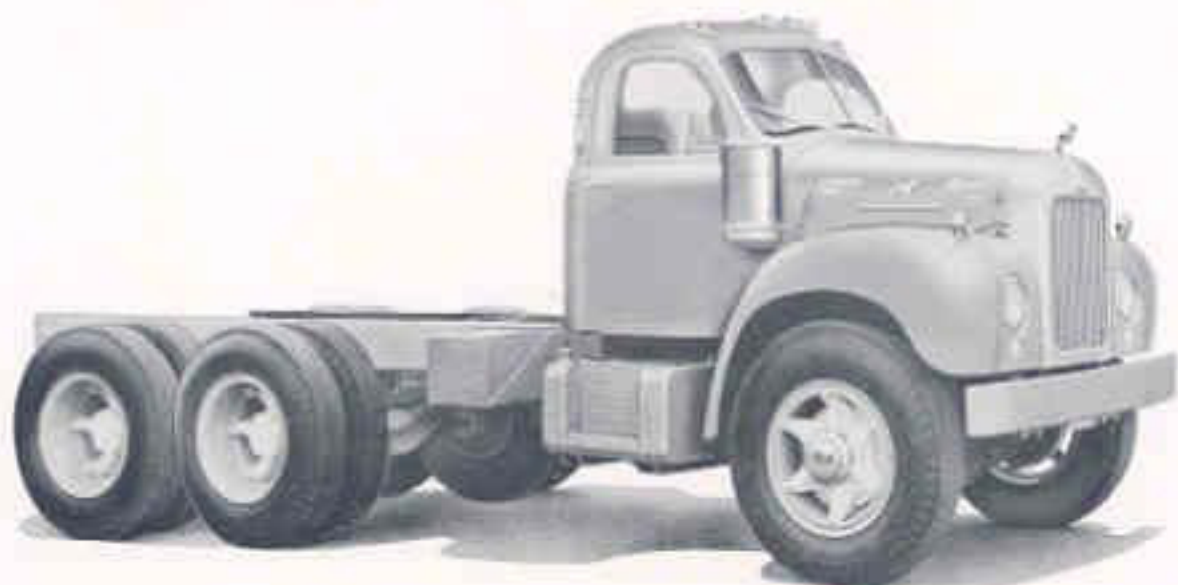




B-46S



MIXER TYPE CHASSIS • ADVANCED CAB LOCATION

PRIMARYLY for concrete mixers, Model B-46S features a shortened dimension from the front axle to back of cab, a dimension of 67 $\frac{1}{2}$ ". The advanced cab position affords a forward positioned load center for a high-proportion front loading; instead of react to the means of a stretched wheelbase. This is especially an advantage when bogie loadings must be limited to 32,000 pounds. The overall shortness and benefited maneuverability are of general advantage.

FLEXIBILITY to meet the demands for heavier payloads is accomplished by a wide variety of Mack-built front axle, bogie and transmission equipment. Mack's famous twenty-speed, Quad-ruplex transmission offers a wide range of speed steps for greater speed adaptability in both on- and off-road operations.

AMPLE POWER for the toughest locations is supplied by Mack's dependable 401 cubic inch Moynadyne gasoline engine producing 150 horsepower at a conservative 2800 RPM. Bogies are equipped with Mack's famous Power Divider which assures positive traction at all times by directing a larger proportion of the driving power to the non-slipping wheels. Mack design and manufacturing control of components means reliability and uniform high quality throughout the chassis.

DRIVER COMFORT and convenience are assured by the sturdy Mack cab featuring a fully adjustable driver's seat, exceptional visibility, adequate ventilation and handy controls. The advanced cab position is achieved by shortening the hood 7". There is no penalty to the driving accommodations.

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MODEL B-46S

STANDARD EQUIPMENT

Condensed Specifications

WHEELBASE 158½". Platform—139"

ENGINE, (Gasoline):

Make _____ Mack
 Model _____ EN 401 Magnadyne
 Number of cylinders _____ Six
 Bore and stroke _____ 4½" x 3½"
 Piston displacement, cu. in. _____ 401
 Maximum horsepower
 @ 3000 r.p.m. _____ 152
 Brake horsepower @ 2800
 r.p.m. (gov.) _____ 150
 Max. torque @ 1400 r.p.m.
 Pound-feet _____ 530

CLUTCH:

Model _____ CL 472
 Type _____ Single-plate, dry
 Outside dia., facing _____ 13½"
 Area of engagement, sq. in. _____ 202

FUEL SYSTEM:

Carburetor _____ Zenith, dual downdraft
 Tank capacity & location _____ 22 gal.; left apron (not available)

COOLING SYSTEM:

Radiator, type _____ Continuous-formed, flat tube
 Frontal area, sq. in. _____ 560
 Thermostat _____ Bellows
 Water pump _____ Centrifugal
 Fan, material _____ Pressed steel
 Type _____ Asymmetrical
 Water capacity of system _____ 33 quarts

ELECTRIC SYSTEM:

Voltage and capacity _____ 12V., 30 Amp.
 Generator, make _____ Delco-Berry
 Starting motor, make _____ Delco-Berry
 Battery, make _____ Exide or Auto-Lite
 Number required _____ One (12V)
 Location _____ Right apron

TRANSMISSION: (Mack)

Model _____ TR 771
 Type _____ Five-speed, direct
 Ratios, 7th 1.00; 4th 1.31; 3rd 2.05; 2nd 3.85, 1st
 7.08; Rev., 7.15.

DRIVESHAFTS:

Tube _____ 3½", 0.156" wall
 Joint _____ Yoke type
 Make & size _____ Spicer, 1600

FRONT AXLE: (Mack)

Model _____ FA 517
 Type _____ Reversed Elliot, I-beam
 (Available for 158½" WB only)

BOGIE: (Mack)

Maximum tire size, 10.00-20
 Model _____ SWD 56
 Bogie wheelbase _____ 50"
 Drive _____ Four-wheel, straight through

BOGIE (Cont'd):

Inter-axle differential _____ Mack concentric cam and plunger type Power Divider
 Housing, construction _____ Pressed steel, fixed
 Axle shafts, material _____ Chromium-molybdenum steel, heat-treated
 Carriers _____ CRDP 92—CRD 93
 Ratios _____ 6.45, 7.32, 8.15, 9.02

BRAKES, AIR:

SIZE—Dia., width, lining thickness, lining area (sq. in.)
 Front _____ 18½" x 4" x ¼" (276)
 Rear _____ 10½" x 3" x ¼" (572)
 Hand _____ 10" x 3" x ¼" (85)
 Compressor _____ In-Flu 400 (7¼ cu. ft.)
 Reservoir capacity _____ 3006 cu. in. (total)

FRAME:

Material _____ Chrome-manganese steel, heat-treated
 Side members, size _____ 9" x 5¼" x ¼"
 Section modulus _____ 9.76
 No. of cross-members & type _____ Three: 2 channel, 1 casting integral with trunion brackets

SPRINGS:

Front, type _____ Semi-elliptic
 Size, length _____ 46"
 width _____ 5"
 Leaf thickness _____ 0.360" (11 leaves)
 Rear, type _____ Semi-elliptic (inverted)
 Size, length _____ 50½"
 width _____ 4"
 Leaf thickness _____ 0.788" (8 leaves)
 Short peening _____ Tension side of main, 3rd & 3rd leaves
 Suspension, Front _____ Rubber Shock
 Insulators, front end; fixed pin, rear end
 Rear _____ Rubber insulators, underside; Bearing plate upside

SHOCK ABSORBERS—FRONT:

Type _____ Houdaille, rotary-hydraulic

TIRES:

	Front	Rear
Size _____	10.00-20 (12P)	9.00-20 (10P)
Rims _____	7.5	7.0

WHEELS:

Type _____ Cast, spoke

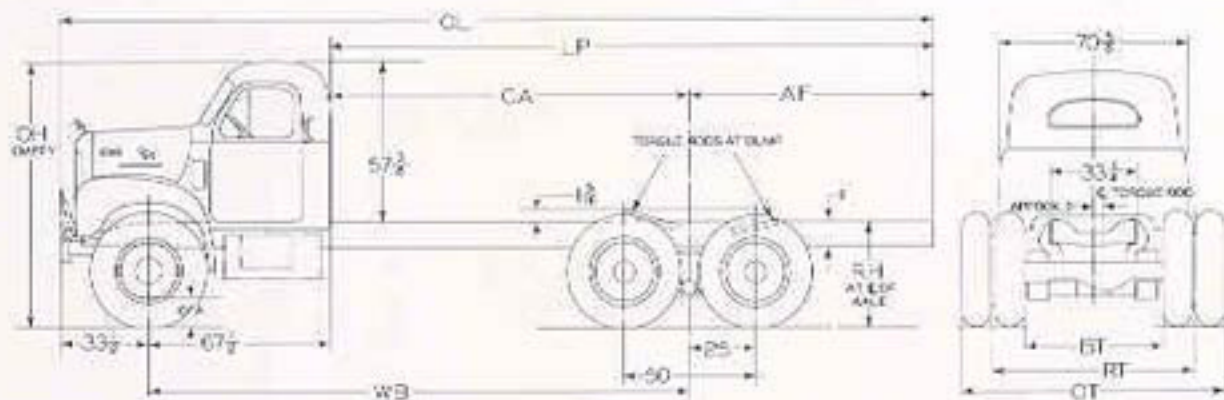
STEERING GEAR:

Model _____ SG 26
 Type _____ Worm and roller
 Ratio _____ 28.4 to 1
 Steering wheel, diameter _____ 20"



MODEL B-46S

CHASSIS DIAGRAM



WB	LP	CA	AF	OL	TURNING-CIRCLE DIA. (Outer edge of tire) Approx.	
					Left	Right
158 1/2	139	91	48	240	63 ft.	63 ft.
170 1/2	151	103	48	252	67 ft.	67 ft.
182 1/2	175	115	60	276	71 ft.	71 ft.
188 1/2	175	121	54	276	73 ft.	73 ft.

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

TIRE SIZE	OH	BOGIE	RH	TR	OT	RT	BT
	Approx.		Loaded				
*9.00-20	95 3/8	5WD 56	38	1 1/4	94 3/8	71 3/8	48 3/8
10.00-20	95 3/8	5WD 56	39	1 1/4	95 3/8	71 3/8	47 3/8
		5WD 57	39 1/2	1 3/8	95 3/8	71 3/8	47 3/8
10.00-22	96 3/8	5WD 57	40 3/8	1 3/8	95 3/8	71 3/8	47 3/8
11.00-20	96 3/8	5WD 57	39 1/8	1 3/8	96	71 3/8	46 1/8
11.00-22	97 3/8	Available Front Only					
12.00-20	97 3/8	Available Front Only (FA 601)					

*9.00-20 size available rear only with 10.00-20 front. Frame heights are subject to variations of 5%.

Represented by:

There being no annual series models of MACK products, refinements and improvements are effected whenever sound development and thorough trial prove them to be advantageous. The right is therefore reserved to change specifications or prices without notice. Illustrations are not necessarily a representation of standard specifications.

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