



# B-80SX



## SIX-WHEEL • GASOLINE • TRUCK

*GREATER PROFITS* and long trouble-free life are provided with this ruggedly designed, gasoline powered six-wheel truck. Model B-80SX is capable of successfully adjusting to the varying demands in off-highway, heavy-duty dumper, mixer, logging, oil field and carry-all tractor services.

*ABUNDANT POWER* for severe conditions and rapid acceleration when required is supplied by Mack's 707 cubic inch Thermodyne gasoline engine. Producing a reliable 222 horsepower at a conservative 2100 RPM, it is Mack's largest and most powerful gasoline engine.

*UNMATCHED ADAPTABILITY* and dependability is assured in a wide selection of all-new, all-Mack component equipment. The already famous, popular, Quadruplex transmission offers a wider range of speed steps than is possible with any combination of transmission and auxiliary. A five or ten-speed transmission and auxiliary is available for oil field work.

*DRIVING COMFORT* is assured in Mack's newly-styled cab providing enough head room, elbow room and leg room for the biggest driver. Features include an easily entered driver's position, fully adjustable driver's seat and a convenient arrangement of controls.

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# MODEL B-80SX

## STANDARD EQUIPMENT

### Condensed Specifications

**WHEELBASE** \_\_\_\_\_ Platform \_\_\_\_\_  
 163½" \_\_\_\_\_ 144"

**ENGINE, (Gasoline):**

Model \_\_\_\_\_ EN 707C  
 Make \_\_\_\_\_ Mack, Thermodyne  
 Number of cylinders \_\_\_\_\_ Six  
 Bore and stroke \_\_\_\_\_ 5" x 6"  
 Piston displacement, cu. in. \_\_\_\_\_ 707  
 Brake horsepower @ 2100 \_\_\_\_\_  
 r.p.m. (gov.) \_\_\_\_\_ 222  
 Max. torque @ 1700 r. p. m. \_\_\_\_\_  
 Pound feet \_\_\_\_\_ 600  
 Lube oil filter \_\_\_\_\_ By-pass, 2qts.

**CLUTCH: (Mack)**

Model \_\_\_\_\_ CL 50, with clutch brake  
 Type \_\_\_\_\_ Two-plate, dry  
 Outside dia. facing \_\_\_\_\_ 14"  
 Area of engagement, sq. in. \_\_\_\_\_ 416

**FUEL SYSTEM:**

Carburetor \_\_\_\_\_ Zenith, dual downdraft  
 Tank capacity and location \_\_\_\_\_ 40 gal., step, right side

**COOLING SYSTEM:**

Radiator, type \_\_\_\_\_ Continuous-finned, flat tube  
 Frontal area, sq. in. \_\_\_\_\_ 821  
 Thermostat \_\_\_\_\_ Bellows  
 Water pump \_\_\_\_\_ Centrifugal type  
 Fan, material \_\_\_\_\_ Pressed steel  
 Type \_\_\_\_\_ Asymmetrical  
 Water Capacity of system \_\_\_\_\_ 54 quarts

**ELECTRIC SYSTEM:**

Voltage and capacity \_\_\_\_\_ 12 V., 55 Amp.  
 Generator, make \_\_\_\_\_ Delco-Remy  
 Starting motor, make \_\_\_\_\_ Delco-Remy  
 Battery, make \_\_\_\_\_ Exide or Auto-Lite  
 Number required \_\_\_\_\_ Two (6V)  
 Location \_\_\_\_\_ Frame, back of cab, right side

**TRANSMISSION: (Mack)**

Model \_\_\_\_\_ TRQ 7210  
 Type \_\_\_\_\_ Two-level, Quadruplex

**RATIOS**

Shift	High Split	Main	Low Split	Low Low
5th	0.69	0.84	1.00	2.12
4th	0.83	1.00	1.19	2.53
3rd	1.45	1.75	2.10	4.44
2nd	2.50	3.12	4.75	7.91
1st	4.51	5.45	6.51	13.78
Rev.	4.51	5.45	6.51	13.78

**DRIVESHAFTS:**

Location	Front	Rear	Inter-Axle
Make (Spicer), size	1800	1800	1600
Joint, type	Yoke	Yoke	Yoke
Tube, dia.	3½"	3½"	3½"
Wall thickness	0.188"	0.188"	0.156"

**FRONT AXLE: (Mack)**

Model \_\_\_\_\_ FA 600  
 Type \_\_\_\_\_ Reversed Elliot, I-beam

**BOGIE: (Mack)**

Model \_\_\_\_\_ SWD 68  
 Bogie wheelbase \_\_\_\_\_ 54"  
 Drive \_\_\_\_\_ Four wheel, straight through type  
 Inter-axle differential \_\_\_\_\_ Mack concentric cam and plunger type Power Divider  
 Housing construction \_\_\_\_\_ One piece hump, steel casting  
 Axle shafts, material \_\_\_\_\_ Chromium-molybdenum steel, heat-treated

Carries \_\_\_\_\_ CRDP 112 & CRD 113

\*Ratios \_\_\_\_\_ 7.49, 8.24, 9.15

\*Ratio 9.15 or 8.24 recommended for Dumpers and Mixers.

**BRAKES, AIR:**

Size—Dia., width, lining thickness, lining area (sq. in.)

Front	17¼" x 5" x ¼"	(855)
Rear	16½" x 6" x ¼"	(828)
Hand	12" x 5" x ¼"	(189)
Compressor	Tu-Flo 500	(12 cu. ft.)
Reservoir capacity	3050 cu. in. (total)	

**FRAME:**

Material \_\_\_\_\_ Chrome-manganese steel, heat-treated  
 Side-members, size \_\_\_\_\_ 10¼" x 3¼" x ½" with gusset structure at bogie  
 Reinforcement \_\_\_\_\_ ¼" inside channel  
 Section modulus \_\_\_\_\_ 24.3, with inside channel  
 No. of cross-members & type \_\_\_\_\_ Two channel and one fabricated I-beam

**SPRINGS:**

Location	Front	Rear
Type	Semi-elliptic	Semi-elliptic (inverted)
Size	51¾" x 3½"	54" x 5"
Leaf Thickness	.401" .360"	0.788"
No. of Leaves	5 11	13
Shot-peening of leaves	Main, 2nd & 3rd	All
Suspension	Slipper loose end, fixed pin rest	Rubber Shock Insulators

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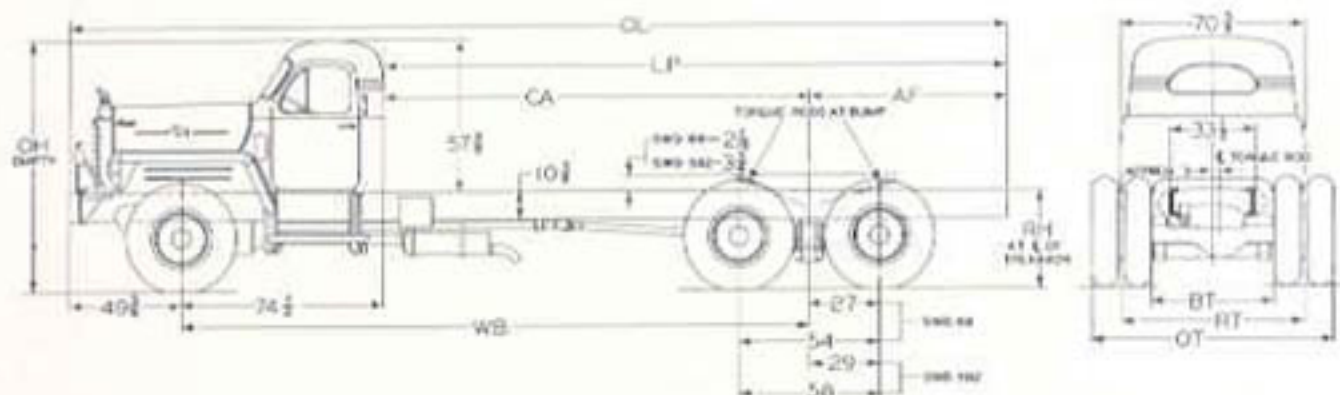


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## CHASSIS DIAGRAM



WB	LP	CA	AF	OL
165 1/2	144	91	33	267 1/2
174 1/2	148	100	48	291 1/2
186 1/2	192	112	80	315 1/2
199 1/2	216	125	91	339 1/2
212 1/2	240	138	102	363 1/2
303 1/2	288	229	59	411 1/2

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

TIRE SIZE (Highway Tread)	BOGIE	OH	Front Tread	GFA	RH		GEA	OT	RT	BT
					Empty	Loaded				
11.00-22	5WD 68	99 1/2	79	11 1/2	41 1/2	40 1/2	8 1/2	99 1/2	73 1/2	48 1/2
					42 1/2	41 1/2	9 1/2			
11.00-24	5WD 592	100 1/2	78 1/2	12 1/2	44 1/2	42 1/2	10 1/2	99 1/2	73 1/2	48 1/2
					45 1/2	43 1/2	11 1/2			
12.00-24	5WD 68	101 1/2	79 1/2	12 1/2	43 1/2	42 1/2	10 1/2	104 1/2	77	49 1/2
					45 1/2	43 1/2	11 1/2			
13.00-24	—	102 1/2	79 1/2	13 1/2	Available Front Only					

† Overall width exceeds 96".  
Frame heights are subject to variation; 1" empty; 1/2" loaded.

*TURNING CIRCLE DIAMETER (Approx.)		
WB	Left Turn	Right Turn
165 1/2	70	66
174 1/2	72	68
186 1/2	76	71
199 1/2	79	74
212 1/2	83	78
303 1/2	119	112

\*Measured in feet to outer edge of tire.

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