



# B-42P & B-422P



## FOUR-WHEEL • GASOLINE POWERED • TRUCKS

Designed to haul capacity loads expeditiously and with the lowest operating expense, these four-wheel platform chassis assure greater earnings in the medium heavy-duty transportation service. Built in Mack's own factories to the highest standards of quality manufacture, they combine great performance with reliability and exceptionally long life.

Economical power is supplied by Mack gasoline engines developing 150 and 160 brake horsepower. These engines are of design and construction that has endowed them with the ability to render extremely long service at a small maintenance cost despite tough operating conditions. Transmission and rear axle equipment offer comprehensive ratio combinations to meet the varying conditions of operations with the utmost effectiveness.

Greater structural strength has been obtained through the use of a rugged frame with side-members made of heat-treated, chrome-manganese steel braced by exceedingly stiff cross-members and reinforced with  $\frac{1}{4}$ " flabplate when required. Contrary to usual practice, this frame is actually wider at the front to allow better accessibility in and around the engine. Springs are of the Vari-rate type which are self-adjusting directly proportional to the load, thus providing a uniform ride.

The roomy three-man, all-steel cab has been designed and constructed to afford the driver the most comfortable accommodations. Some of these features include, an individual, fully-adjustable driver's seat, exceptionally good road visibility, ample provision for ventilation, convenient location of controls and a scientifically arranged demountable instrument panel.

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# MODELS B-42P & B-422P

## STANDARD EQUIPMENT

### Condensed Specifications

WHEELBASE—158½", Platform—138"

ENGINE, (Gasoline):	B-42P	B-422P
Model	EN 407	EN 438
Make	Magnadyne	Thermodyne
Number of cylinders	Six	Six
Bore and stroke (inches)	4 1/8 x 5 1/2	4 3/16 x 5
Piston displacement, cu. in.	401	458
Brake horsepower	150	160
@ 3000 r.p.m.	2000	2000
Max. torque @ r.p.m.	1400	1400
Pound feet	530	555
Lube oil cooler	Ron	—
Lube Oil Filter (7 qts.)	By pass type	

CLUTCH:	B-42P	B-422P
Model	CL 472	CL 401
Vibrashock clutch plate	—	Mack
Type	Single plate, dry	
Outside dia. facing	13 1/8"	13 7/8"
Area of engagement, sq. in.	202	220

FUEL SYSTEM:	B-42P	B-422P
Carburetor	Zenith, dual downdraft	Zenith, updraft
Governor	Plater	—
Air cleaner	Donaldson, oil bath	—
Tank capacity & location	22 gal., left apron	

COOLING SYSTEM:	B-42P	B-422P
Radiator, type	Continuous finned, fan tube	
Frontal area, sq. in.	560	—
Thermostat, to open	170°	—
Water capacity of system	54 quarts (B-42P)	46 quarts (B-422P)

ELECTRIC SYSTEM:	B-42P	B-422P
Voltage and capacity	12V., 30 Amp.	
Generator, make	Delco Remy	
Starting motor, make	Delco Remy	
Battery, make	Eagle, Willard or Auto-Lite	
Plates per cell	15	
Amp. hr. @ 20 hr. rate	90	
Number required	One (12V)	
Location	Right apron	

TRANSMISSION: (Mack)	B-42P	B-422P
Model	TR 771	
Type	Five-speed, Direct	
Ratio, 1st 1.00; 4th 1.31; 3rd 2.05; 2nd 3.85; 1st 7.68; Rev., 7.15		

DRIVESHAFT:	B-42P	B-422P
Tube	3 1/2", 0.156" wall	
Joint	Yoke type	
Make and size	Spicer, 1600	

FRONT AXLE: (Mack)	B-42P	B-422P
Model	FA 301	
Type	Reversed Elliott, Libson	

REAR AXLE: (Mack)	B-42P	B-422P
Model	RAS 308	
Final drive	Single reduction	
Housing, construction	One-piece, built-up formed from tubular stock, heat-treated	
Axle shafts, material	Chromium-manganese steel, heat-treated, shot peened	
Carrier	CBS 84	
Ratio	5.57, 6.17, 6.85	

BRAKES, AIR:	B-42P	B-422P
SIZE—Dia., Width, Lining Thickness, Lining Area (sq. in.)		
Front, size	16 1/2" x 3" x 1/2"	(204)
Rear, size	16 1/2" x 6" x 1/2"	(414)
Hand, size	10" x 5" x 1/4"	(85)
Air compressor	Turbo-Fluo 400 (7 1/4 cu. ft.)	
Reservoir capacity	2250 cu. in. (total)	

FRAME:	B-42P	B-422P
Material	Chrome manganese steel, heat-treated	
Side-members, size	9" x 3 1/4" x 1/4"	
Section modulus	0.76	
No. of cross members & type	Four, channel	

SPRINGS:	B-42P	B-422P
Front, type	Semi-elliptic	
size, length (between load centers)	46"	
width	5"	
Leaf thickness	0.360" (6 leaves)	
Suspension	Rubber Shock Insulators, front end; fixed pin, rear end	
Rear, type	Vee-bar, semi-elliptic, with three leaf radius rod	
size, length (between load centers)	59" no load; 46" loaded	
width	5"	
Leaf thickness	0.447" (10 leaves; 3 spacers)	
Suspension	Cam type variable action brackets	

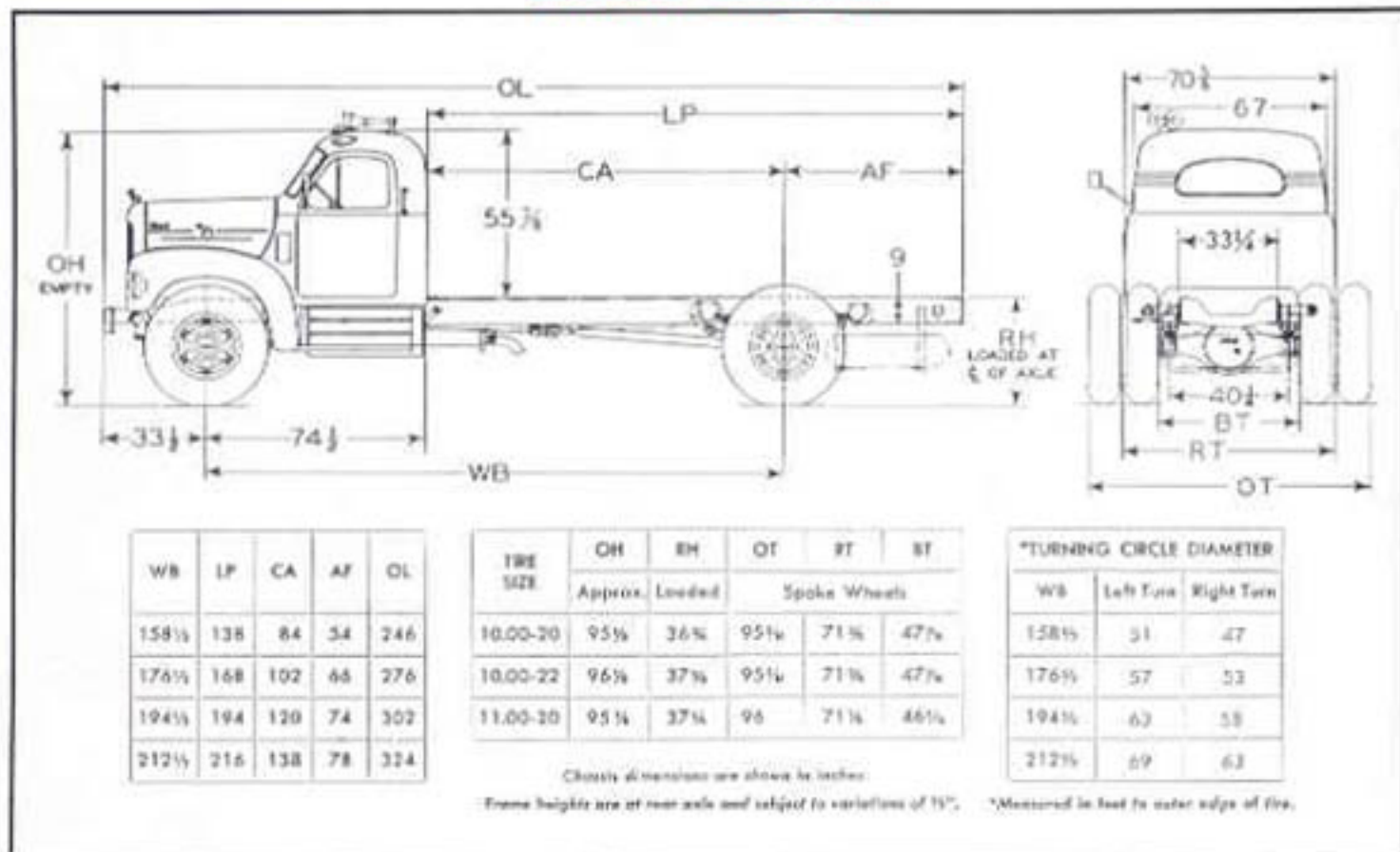
TIRES:	B-42P	B-422P
Size	10.00-20 (12P)	
Rims	7.5	

WHEELS:	B-42P	B-422P
Type	Cast spoke	



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## CHASSIS DIAGRAM



Represented by:



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