

MODELS B-61LT & B-613LT

Four-Wheel, Diesel, Weight-Saver, Tractor

STANDARD EQUIPMENT

RATING, GCW: { 50,000 lbs. (single axle) **22.7 T**
with semi-trailer { 65,000 lbs. (tandem axle) **29.5 T**

WHEELBASE — 146½" Platform — 105"

ENGINE, (Mack Diesel):	B-61LT	B-613LT
Model	ENDL 673P	ENDLT 673
Type, Thermodyne	Naturally aspirated	Turbocharged
Brake horsepower @ 2100 r.p.m. (gov.)	180	205
Max. torque @ r.p.m.	1400	1400-1600
Pound-feet	505	590
Lube oil filter (14 qts.)	Comb. full-flow/by-pass	
Lube Oil Cooler	—	Am. Std.
Governor	American Bosch, mechanical	
Air cleaner	Donaldson, oil bath	
Radiator, frontal area, sq. in.	560	700
Water capacity of system	48 qts.	52 qts.
Fuel tank	22 gal., left apron	

CLUTCH (Mack) CL 28
Single-plate, dry 14⅞" Dia.
Area of engagement, sq. in. 253

ELECTRIC SYSTEM 12 Volt, 55 Amp.
24 Volt starting
Battery, number Four (6 Volt)

TRANSMISSION (Mack) TRDL 67
Ten-speed, two-lever, Duplex

DRIVESHAFTS Spicer, 1700

FRONT AXLE (Mack) FA 505

Standard Model has the following aluminum parts: Front bumper; Engine flywheel housing; Engine front support; Engine rear support brackets; Engine rear support frame brackets; Transmission case; Steering gear housing and bracket; Front and rear spring brackets; Air reservoirs; Rear axle brake chamber brackets, spiders and shoes.

REAR AXLE (Mack) RAS 507, Single-red.
Carrier CRS 84
Ratios 4.25, 4.63, 5.14, 5.57,
6.17, 6.83

BRAKES, AIR:
Size—Dia., width, lining thickness & lining area (sq. in.)
Front 16¼" x 3" x ½" (204)
Rear 16½" x 6" x ¾" (414)
Hand 12" x 5" x ⅜" (139)
Compressor Tu-Flo 500 (12 cu. ft.)
Reservoir capacity 2235 cu. in. (total)

FRAME: Chrome-manganese steel, heat-treated
Size 9" x 3¼" x ¼"
Section modulus 9.76

SPRINGS, Semi-Elliptic: *Front Rear (Vari-rate)*
Size 46" x 3" 59"-46" x 3"
Leaves, no. & thickness 9 @ .360" 10 @ .447"
Shock absorbers, front Houdaille, rotary-hydraulic

WHEELS & TIRES:
10.00-20 (12P) on 7.5 Rims, Cast Spoke Wheels

STEERING GEAR:
Worm and roller SG 251
Steering wheel dia. & ratio 22"; 24.4

CAB (Mack) CA 21
All metal, welded, unified cab and cowl

CHASSIS EQUIPMENT: Painting in synthetic enamel (Mack green, red, yellow, blue, orange or black); aluminum flush type front bumper; headlights and parking lights; stop-tail light; electric horn, dual tone; defroster nozzles; sun visor, left side; air-actuated windshield wipers; automatic reset circuit breakers; two I.C.C. lights; three marker lights; low air pressure buzzer; automatic radiator shutters; semi-trailer brake and electrical connections; tachometer, single-hand; rim (or disc) wrench.

MAJOR OPTIONAL EQUIPMENT

WHEELBASES: See Chassis Diagram

TRANSMISSION: (Mack)

TR 671 5-speed with Aux.
TR 72, TR 720 5-speed with Aux. or
two-spd. axle
TRDL 670, TRDL 72,
TRDL 720 10-speed, two-lever, Duplex
TRDL 675, TRDL 6750,
TRDL 725, TRDL 7250 10-speed, Unishift, Duplex
TRTL 720 13-speed, two-lever, Triplex

Note: TR 72 series obligatory when GCW exceeds 58,000 lbs.

AUXILIARY TRANSMISSION: (requires 164½" WB)
B-I 8035 G 3-speed with TR 671, TR 720

FRONT AXLE: (Mack) with SG 261 only
FA 507 Springs, 11 leaves (.360")

STEERING GEAR:
SG 261 22" Wheel; 28.4 ratio
Obligatory with FA 507; with FA 505 when cab is CA 27 (20" steering wheel)

REAR AXLE: (Mack)
RAD 507, RAD 509 Dual Reduction
CRD 78 Carrier ratios 4.28, 4.66, 5.36, 5.78, 6.35
CRD 781 (Add. opt.) Power Divider incl.
RAS 509 Single-reduction
CRS 84 Carrier ratios 4.25, 4.63, 5.14, 5.57, 6.17, 6.83

REAR AXLE: (Cont'd.)

† RA2DT 518, RA2DT 519 Two-speed (Timken)
CR2D 101 Carrier ratios 5.34-7.10, 6.16-8.31
† Available with TR 72, TR 720 only.

BRAKES SIZE, AIR:

Front, FA 507 16½" x 4" x ¾" (276)
Rear, RAD 507 16½" x 6" x ¾" (414)
RA2DT 518 16½" x 6", tapered (372)
RAS 509, RAD 509 16½" x 7" x ¾" (476)
RA2DT 519 16½" x 7", tapered (434)

SPRINGS, Rear:

Heavy-duty 12 leaves (.447")
Recommended where state law permits 22,400 lbs. on axle.

CAB: (Mack)

CA 27 Contour cab back
CAS 28 (req. 164½" WB) Sleeper, with mattress
SG 261 required with CA 27 cab when FA 505 is furnished.

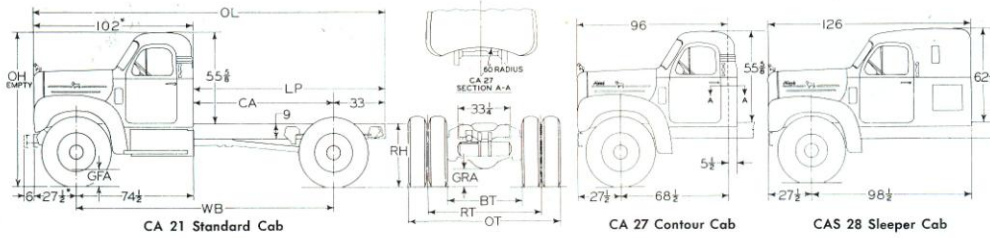
WHEELS & TIRES:

Tires	10.00-22	11.00-20	11.00-22
Ply	12P	12P	12P
Rims	7.5	8.0	8.0
Wheels (10.00 tires only) ...	Aluminum Disc		

AUXILIARY EQUIPMENT: See chassis price page for regular optional extra auxiliary equipment.

COMPONENT DETAIL SPECIFICATIONS: Refer to sections at rear of this book.

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WB	CA21 Cab		CA27 Cab		CAS28 Cab		*OL	Turning Circle Dia. (Outer edge of Tire) Approx.	
	LP	CA	LP	CA	LP	CA		Left	Right
	137½	—	—	102	69	—			
146½	105	72	111	78	—	—	207	48 ft.	45 ft.
164½	123	90	129	96	99	66	225	54 ft.	51 ft.

TIRE SIZE	OH Approx.	GFA	Front Tread	RH At Axle		GRA	OT	RT	BT
				Loaded	Empty				
				Spoke Wheels					
10.00-20	93	10	74	36¾	41	10	95½	71¾	47½
10.00-22	94	11	74	37¾	42	11	95½	71¾	47½
11.00-20	93½	10½	73½	37¼	41¾	10½	96	71½	46¼
11.00-22	94½	11½	73½	38¼	42½	11½	96	71½	46¼

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

Frame heights are subject to variations: of ½" loaded; 1" free.

* When extended front bumper is furnished, bumper to centerline of front axle is 33½ in. and OL becomes 6 in. longer.

GEARED MILES PER HOUR

(Max. Speed Shift)

Gov. Speed, 2100 rpm

REAR AXLES RAS 507 and RAS 509

Tire Size	10.00-20	10.00-22	11.00-20	11.00-22	10.00-20	10.00-22	11.00-20	11.00-22	10.00-20	10.00-22	11.00-20	11.00-22
Axle Ratio	TRDL 67, TRDL 72, TRDL 675, TRDL 725				TRDL 670, TRDL 6750				TRDL 720, TRDL 7250			
4.25	59	62	60	63	75	78	76	80	76	79	77	81
4.63	54	57	55	58	68	72	70	73	69	73	71	74
5.14	49	51	50	52	62	65	63	66	62	65	64	67
5.57	45	47	46	48	57	60	58	61	58	60	59	62
6.17	41	43	42	43	51	54	53	55	52	55	54	56
6.83	37	38	38	39	49	49	47	50	47	49	48	50
Axle Ratio	TRTL 720				TR 671 & B-L 8035G				TR 720 & B-L 8035 G			
4.25					70	74	72	75				
4.63	78	81	80	84	64	67	66	69				
5.14	70	74	72	75	58	61	60	62	74	77	76	79
5.57	65	68	67	70	54	56	55	57	68	71	70	73
6.17	59	62	61	63	48	51	50	52	61	64	63	66
6.83	53	56	54	57	44	46	45	47	55	58	57	59

REAR AXLES RAD 507 and RAD 509

Tire Size	10.00-20	10.00-22	11.00-20	11.00-22	10.00-20	10.00-22	11.00-20	11.00-22	10.00-20	10.00-22	11.00-20	11.00-22
Axle Ratio	TRDL 67, TRDL 72, TRDL 675, TRDL 725				TRDL 670, TRDL 6750				TRDL 720, TRDL 7250			
4.28	58	61	60	63	74	78	76	80	75	79	77	81
4.66	54	56	55	57	68	71	70	72	69	72	71	74
5.36	47	49	48	50	59	62	61	63	60	63	62	64
5.78	43	45	44	46	55	57	56	58	55	58	57	59
6.35	39	41	40	42	50	52	51	53	51	53	52	54
Axle Ratio	TRTL 720				TR 671 & B-L 8035G				TR 720 & B-L 8035 G			
4.28					69	73	71	75				
4.66	78	82	80	83	64	67	66	69				
5.36	68	71	70	72	56	58	57	60	71	74	73	76
5.78	63	66	64	67	51	54	53	55	66	69	67	70
6.35	57	60	59	61	47	49	48	50	60	63	61	64

REAR AXLES RA2DT 518 and RA2DT 519

Tire Size	10.00-20	10.00-22	11.00-20	11.00-22	10.00-20	10.00-22	11.00-20	11.00-22
Axle Ratio	TR 72				TR 720			
5.34-7.10	47-35	49-37	48-36	50-38	60-45	63-47	62-46	64-49
6.16-8.31	40-30	43-31	42-31	43-32	51-38	55-40	54-40	55-41

Blank spaces are indicative of extremely high geared speeds.

To determine if a geared speed is actually attainable (loaded to rated capacity) refer to the GRADE ABILITY chart in the PERFORMANCE section at the rear of this book.

Complete Geared Miles Per Hour data is located in the PERFORMANCE section.