

MACK TRUCKS, INCORPORATED

ENGINEERING DIVISION

MODELS G75-G753LT

VEHICLE SPECIFICATIONS

Specification G75-G753LT2604
General Engineering Department
Allentown, Pennsylvania
Issued: February 25, 1960

FOREWORD

This specification describes the Mack "G" model, highway transporter, 4x2, truck and truck-tractor.

This model features high power, lightweight and maximum cargo space for gross train weights up to 76,800 pounds legal weight limits.

Maximum cargo space has been provided while still maintaining ample cab room for driver comfort and maximum visibility. Bumper to back of cab dimension has been held to 51" without sleeper and 80" with sleeper. Sleeper bunk provides for generous 30" width, exceeding minimum I.C.C. standards by 9".

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

COMPONENT PARTS OF STANDARD CHASSIS

Wheelbase	116-1/2"
Platform	125-5/8"
CA dimension	92-5/8"
Frame	10-1/2" x 3-1/4" x 1/4" (Heat treated alloy steel)
Engine	ENDL673 (G75LT only) ENDLT673 (G753LT only)
Air compressor	Tu-Flo #500
Air cleaner	Oil bath
Lube oil filters	By-pass type (ENDL673) Full flow and by-pass type (ENDLT673)
Mounting:	
By-pass type	Bracket to underside of L.H. battery box
Full-flow and by-pass types	Bracket to underside of L.H. battery box (by-pass) and bracket to cab support crossmember (full-flow)
Fuel oil filter mounting	Bracket (on engine)
Oil cooler	Tube and cast shell (ENDLT673 only)
Thermostats	Bellows type (set to open @ 170 degrees)
Clutch	CL28
Exhaust	Vertical
Transmission	TRDL72, Two-lever, Duplex, direct
Front axle	FA512 (with aluminum brakes)
Rear axle	RADL515 (with 6" wide aluminum brakes)
Carrier	CRD91
Available ratios	4.39, 5.07, 5.46, 6.45, 7.01
Steering gear	SG26
Steering wheel dia.	22"
Wheels	Cast spoke
Tires, single front and dual rear	10.00/20 (12 ply rating)
Rims	7.5
Cab	CA29
With removable gauge panel including the following:	
Fuel gauge	
Speedometer	
Lube oil pressure gauge	
Engine temperature gauge	
Air pressure gauge	
Ammeter	
Brakes	Air, with buzzer type low pressure indicator
Electrical system and equipment:	
System and voltage	12V, 55 ampere
Lighting	12V
Starting	24V
Regulator	55A
Generator	55A

(Continued)

Batteries (2) 12V
Horn Electric, dual tone
Stop and tail light (1) combination type, shock mounted
I.C.C. lights One on each front corner of cab roof
Dual, recessed type, sealed beam headlamps
Recessed type parking lamps
Headlamp hi-beam indicating light
One (1) interior cab lamp
Single hand tachometer
Automatic reset circuit breakers

Chassis equipment:

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OPTIONAL CHASSIS COMPONENTS

Platform for standard 116-1/2"

W.B. with CAS29 96-5/8"

CA dimension 63-5/8"

Wheelbases	128"	Platform	137-1/8" (CA29)
		CA dimension ..	104-1/8"
		Platform	108-1/8" (CAS29)
		CA dimension ..	75-1/8"
	143"	Platform	152-1/8" (CA29)
		CA dimension ..	119-1/8"
		Platform	123-1/8" (CAS29)
		CA dimension ..	90-1/8"
	156"	Platform	165-1/8" (CA29)
		CA dimension ..	132-1/8"
		Platform	136-1/8" (CAS29)
		CA dimension ..	103-1/8"
	208"	Platform	341" (CA29)
		CA dimension ..	184-1/8"
		Platform	312" (CAS29)
		CA dimension ..	155-1/8"
Frame	10-1/4" x 3-1/4" x 13/16" flange x 1/2" web (aluminum)		

Engine:

Lube oil filters By-pass and full-flow types (ENDL673 only)

Air starting

Clutch brake

Clutch air assist (included with Unishift transmissions; not available with 5-speed transmissions)

Transmissions	TRDL720, Two-lever, Duplex, Overgear
	TRDL725, Unishift, Duplex, Direct
	TRDL7250, Unishift, Duplex, Overgear
	TRTL72, Two-lever, Triplex
	TR72, Selective, constant mesh, direct (for use only with Timken 2-speed rear axle or B/L 8035-G auxiliary transmission) - Min. W.B. - 208"
	TR720, Selective, constant mesh, overgear (for use only with Timken 2-speed rear axle or B/L 8035-G auxiliary transmission) - Min. W.B. - 208"

Front axles	FA5141 (no brakes)
	FAL523 (with aluminum brakes)
	FA5231 (no brakes)

Power steering Hydraulic, Mack linkage type (not available with alternator)

Rear axle	RADL5153 (with 7" aluminum brakes)
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Carrier	CRD91
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Available ratios 4.39, 5.07, 5.46, 6.45, 7.03

Rear axle	RA2DT521 (for use only with 5-speed transmissions and disc wheels) - with 6" brakes.
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OPTIONAL CHASSIS COMPONENTS

(Continued)

Carrier CR2D106
Available ratios 4.77-6.38, 5.54-7.42, 6.26-8.38
Rear axle RA2DT5211 (for use only with
5-speed transmissions and disc
wheels) - with 7" brakes.
Carrier CR2D106
Available ratios 4.77-6.38, 5.54-7.42, 6.26-8.38
Aluminum disc wheels
Steel disc wheels
Tires 10.00/22, 12-ply rating on 7.5 rims
11-22.5, 12-ply rating (tubeless)
on 7.5 rims
11-24.5, 12-ply rating (tubeless)
on 7.5 rims
Cab CAS29 (including mattress and rider's
seat)
Fuel tanks (2); (1) 55 gallon, L.H. and
(1) 55 gallon, R.H. - aluminum
round types
(2) 70 gallon (one each side) -
aluminum, round types
Brakes:
Hand control valve
Front wheel brake limiting valve (FA512-FAL523 only)
Sealco drain valve
Break-away safety valve
Electrical system:
Grover single type air horn
(2) Two combination types, shock mounted
Directional signals - front only-R.H. and L.H.
Marker lights - (1) one or cluster of three (3)
12 Volt, 100 ampere, Leece-Neville alternator
Chassis equipment:
Semi-trailer brake and electrical connections
Full trailer brake and electrical connections
8 or 12 ton hydraulic jack
Spare rim or spare disc wheels
Tow shackles - front axle mounted

GENERAL SPECIFICATIONS

Chassis dimensional drawing 7RFA5176 (CA29)
5175 (CA29)

Gross vehicle weight ratings: ... 29,500 lbs. (with FA512, FA5141)
31,000 lbs. (with FA523, FA5231)

Estimated standard chassis weights:

	<u>G75LT</u>	<u>G753LT</u>
Front . . .	6,395 lbs.	6,505 lbs.
Rear . . .	<u>3,880 lbs.</u>	<u>3,885 lbs.</u>
Total . . .	10,275 lbs	10,390 lbs.

CALCULATED TURNING CIRCLES

Standard Chassis

39 feet - R.H. - to outside edge of tire
40 feet - L.H. - to outside edge of tire

FUEL

Tank capacity	55 gallon
Location	L.H. side rail
Filler spout location	Top of tank
Engine air cleaner:	
Make	Vortex
Model	GS120K
Type	Oil bath
Location	L.H. side of chassis (to cab rear support crossmember)
Intake	Outside air
Capacity	Four quarts

EXHAUST

Location Vertical, at R.H. rear cab corner
Muffler:
Make Nelson
Model T4807
Type Diagonal flow

COOLING

Radiator:	
Type	Three-piece, with cast aluminum upper and lower tanks
Frontal area, sq. in.	1,000
Core type	Continuous finned, flat tube
Suspension	Rubber mounted

GENERAL SPECIFICATIONS

(Continued)

COOLING (Cont'd.)

Fan:

Type Asymmetrical
Diameter 24"
Number of blades (2) (G75LT); 4 (G753LT)
Cooling system capacity 53 quarts

ELECTRICAL

Batteries:

Make	Autolite	or	Exide
No. required		Two	
Model	4DR155		Hycap 4D
Voltage		12	
Plates per cell	21		19
Amp. hr. @ 20 hr. rate	155		150
Location	One (1) each, attached to R.H. and L.H. side rails		

Generator:

Make Delco-Remy
Model 1106934
Voltage 12
Capacity 55A

Regulator:

Make Delco-Remy
Model 1118939
Capacity 55A

Starter:

Make Delco-Remy
Model 1113700
Voltage 24

Lighting system voltage 12

PROPELLER SHAFTS

Make Spicer (1700 series)
Type Yoke
Tube dia., O.D. 3-1/2"
Wall thickness 0.156"

AIR RESERVOIR (ALUMINUM)

No. of tanks One
Size 9-1/2" x 34"
Capacity, cu. in. 2235

PARKING BRAKE

Make	Bendix
Type	"Due-Servo" (internal shoe and drum)
Size	12" x 5" x 3/8"
Area, sq. in.	139
Location	Rear of transmission
Actuation	Hand lever

FRAME

Make	Mack
Type	Pressed channel
Material	Chrome-manganese steel (standard) Aluminum (optional)
Size	10-1/2" x 3-1/4" x 1/4" - steel (Standard) 10-1/4" x 3-1/4" x 13/16" flange x 1/2" web - aluminum (optional)
Section modulus	11.83 (steel) 28.23 (aluminum)
Frame crossmembers:	
Quantity and type:	
116-1/2", 128", 143" W.B.	Two, steel channel
154" W.B.	Three, steel channel
208" W.B.	Six, steel channel
Front bumper	Aluminum channel

SPRINGS (FRONT)

FA512-FA5141

FAL523-FA5231

Type	Leaf, semi-elliptic
Size:	
Length between load centers	48"
Width	3"
Suspension	Pin and slipper type
No. of effective leaves	12
Leaf thickness	0.323" 14

SPRINGS (REAR)

(Standard)

Type) Vari-rate, semi-elliptic leaves
with 3-leaf radius rod

Size:

Length between load centers .. 59", no load; 46" loaded

Width 3"

Suspension Cam type variable action brackets

No. of effective leaves 15

Leaf thickness 0.401" (#1 to #5 incl.)
0.360" (#6 to #15 incl.)

SPRINGS (REAR)

Optional - Heavy Duty

Type Vari-rate, semi-elliptic leaves,
with three-leaf radius rod

Size:

Length between load centers .. 59", no load; 46", loaded

Width 3"

Suspension Cam type variable action brackets

No. of effective leaves 12

Leaf thickness 0.447"

SHOCK ABSORBERS

Location Front

Make Gabriel

Model Series "E" (with "F" eyes)

Type Strut

EMK:dan