MACK TRUCKS, INCORPORATED

ENGINEERING DIVISION

MODELS G73-G733LT

VEHICLE SPECIFICATIONS

Specification G73-G733LT2602
General Engineering Department
Allentown, Pennsylvania
Issued: February 19, 1960

FOREWORD

This specification describes the Mack "G" model, highway transporter, 4 x 2, 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	116½"
Platform	125-5/8"
CA dimension	92-5/8"
Frame	10½" x 3⅛" x ¼" (Heat treated alloy steel)
Engine	NH-220-L (G73LT only) NT-6-BL (G733LT only)
Air compressor	Tu-Flo #500
Air cleaner	Oil bath
Lube oil filter	Full flow type (NH-220-L) Full flow and by-pass types (NT-6-BL) NTO-6-BL)*
Mounting:	
Full flow type	In oil pan
Full flow and by-pass types	In oil pan (full flow) and bracket to battery box (by-pass)
Fuel oil filter mounting	Bracket on cab rear support, L.H. side
Oil cooler	Tubular, jacket water cooled
Thermostats	Bellows type (set to open at 170 degrees)
Clutch	CL28 (NH-220-L only) CL282 (NT-6-BL only)
Exhaust	Vertical
Transmission	TRDL72, Two-lever Duplex, direct
Front axle	FA512 (with aluminum brakes)
Rear axle	RADL515 (with 6" wide aluminum brakes
Carrier	CRD 91
Available ratios	4.39, 5.07, 5.46, 6.45, 7.03
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:

- Speedometer
- Fuel gauge
- Lube oil pressure gauge
- Engine temperature gauge
- Oil pressure gauge
- Ammeter

*Added NTO-6-BL: 2/25/60

COMPONENT PARTS OF STANDARD CHASSIS (Continued)

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
Batteries	(2) 12V
Horn	Electric, dual tone
Stop and tail light ...	(1) Combination type, shock mounted
I.C.C. lights	One one 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

Fuel tank ..... (1) 55 gallon, L.H., aluminum, round type

Chassis equipment:

Front shock absorbers, strut type
Wheel wrench and handle
Automatic radiator shutters
*Tow shackles - front axle mounted

*added: 2/25/60

OPTIONAL CHASSIS COMPONENTS

Platform for standard 116½" W.B. with CAS29	96-5/8"
CA dimension	63-5/8"
Wheelbases	128", Platform ..... 173-1/8" (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	10¼" x 3¼" x 13/16" flange x ½" web (aluminum)
Engine	NTO-6-BL (G733LT) NTO-280-B (G733LT) NH-250 (G73LT)
Lube oil filters	By-pass types (Luberfiner 500C or 750C in addition to standard full-flow) NH-220-L Luberfiner 750C to replace 500C (NT-NTO 6-BL)
Clutch	CL282 (NH-220-L) CL50 (obligatory with NTO-6-BL)
Clutch brake (included with	CL50)
Clutch air assist (included	with Unishift transmission) NA with 5 speed transmission
Transmission	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)

OPTIONAL CHASSIS COMPONENTS
(Continued)

Power steering	Hydraulic, Mack linkage type
Rear axle	RADL5153 (with 7" aluminum brakes)
Carrier	CRD 91
Available ratios	4.39, 5.07, 5.46, 703
Rear axle	RA2DT521 (for use only with 5-speed transmissions and disc wheels) with 6" brakes
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
- Two (2) combination types, shock mounted
- Directional signals - front only - R.H. and L.H.
- Marker lights - (1) one or cluster of three (3)

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 wheel

GENERAL SPECIFICATIONS

Chassis dimensional drawing 7RTA5176 (CA29)
5175 (CAS29)

Gross vehicle weight ratings: .. 29,500 lbs. (with FA512, FA5141)
31,000 lbs. (with FAL523, FA5231)

Estimated standard chassis weights:

	G73LT	G733LT
Front	6660 lbs.	6770 lbs.
* Rear	3880 lbs.	3885 lbs.
* Total	10540 lbs.	10655 lbs.

CALCULATED RURNING 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 ..... Vortox
Model GS135G
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 T4882 (G73LT); T4807 (G733LT)
Type ..... Two-pass (G73LT); diagonal flow (G733LT)

* Weights revised: 2/25/60

COOLING

Radiator:

Type	Three piece with cast aluminum upper and lower tanks
Frontal area, sq. in.	1000
Core type	Continuous finned, flat tube
Suspension	Rubber mounted

Fan:

Type	Asymmetrical
Diameter	22" (NH-220-L) 26" (NT-6-BL, NTO-6-BL)
Number of blades	6 (NH-220-L) 5 (NT-6-BL, NTO-6-BL)

Cooling system capacity ..... 45 quarts

ELECTRICAL

Batteries:

Make	Autolite	or	Exide
No. required	Two		
Model	4DR155		Hycap 4 D
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	1106822
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 SHAFT

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	9½" x 34"
Capacity, cu. in.	2235

PARKING BRAKE

Make	Bendix
Type	"Duo-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	10½" x 3½" x ¼" - steel (standard) 10¼" x 3½" x 13/16" flange x ½" web Aluminum (optional)
Section modulus	11.8^3 (steel) 28.2^3 (aluminum)
Frame crossmembers:	
Quantity and type:	
116½", 128", 143" W.B.	Two, steel channel
156" 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	14
Leaf thickness	0.323"	

SPRING (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 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	12
Leaf thickness	0.447"

SHOCK ABSORBERS
*(~~Front~~)

Location	Front
Make	Gabriel
Model	Series "E" (with "F" eyes)
Type	Strut

EMK:IK

*Deleted (Front) - 2/25/60