

MACK TRUCKS, INCORPORATED

ENGINEERING DIVISION

MODELS H67-H69LT

VEHICLE SPECIFICATIONS

Specification H67-69LT-7581
General Engineering Department
Allentown, Penna.

Issued: September 10, 1958

FOREWORD

This specification describes the Mack Cab-Over-Engine, Lightweight Models H67LT and H69LT, 4 x 2, Diesel-Powered Tractors, having gross combination weight ratings of 50,000 pounds with single-axle semi-trailers and 65,000 pounds with tandem axle semi-trailers.

Featured is an improved front end appearance, achieved by the adoption of a new style cab grille and fenders and the installation of dual headlamps.

Chassis group, lightweight, consisting of:-

- Aluminum engine rear support frame brackets
- Aluminum engine flywheel housing
- Aluminum engine front and rear water manifolds
- Aluminum engine inlet and outlet water fittings
- Aluminum engine valve lifter covers
- Aluminum front and rear spring brackets
- Aluminum transmission cases
- *Aluminum front and rear axle brake chamber brkts.
- *Aluminum front and rear brake shoes
- *Aluminum front and rear brake spiders
- Aluminum front bumper
- Aluminum air reservoirs

*Applicable to FA512 only.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

COMPONENT PARTS
OF
STANDARD CHASSIS

Wheelbase.....	128", Platform.....	108" (H67LT)
	Platform.....	122" (H69LT)
Frame.....	9" x 3-1/4" x 1/4"	
ENDL673.....	Mack Lightweight Diesel Engine	
CL28.....	Mack Single-Plate Clutch	
TRDL67.....	Mack 10-speed, Two-lever Duplex Transmission, Direct in 10th (having aluminum bellhousing, main and compound cases)	
FA511.....	Mack Front Axle	
RAS507.....	Mack Rear Axle with CRS84 Single Reduction Carrier	
SG26.....	Gemmer Steering Gear	
9.00/20.....	10-Ply Rating Tires, Single Front and Dual Rear	
7.0.....	Rims	
CAS34.....	Mack C.O.E. Forward Tilting Cab-H67LT	
CA34.....	Mack C.O.E. Forward Tilting Cab-H69LT	
Cast Spoke Wheels		
Spare Rim (when specified)		
Wig-Wag Type Low Pressure Indicator		
Westinghouse Air Brakes with Tu-Flo #500 Air Compressor		
12-Volt Electrical System		
(4) - 6 volt Batteries		
50 Ampere Generator		
24-Volt Electric Starting System		
One (1) 55 Gallon R.H. Fuel Tank, Steel, Round Type		
Aluminum Channel Type Front Bumper		
Three (3) Forward Facing Marker Lamps on Cab Roof		
Two (2) I.C.C. Clearance Lamps (one on each front corner of cab roof)		
Semi-Trailer Brake and Electrical Connections, including Hoses and Cables		
Air Cleaner, Oil Bath Type		
Oil Filter, By-Pass Type, Luberfiner #500C		
Automatic Radiator Shutters		
Dual, Recessed Type, Sealed Beam Headlamps		
Recessed Type Parking Lamps		
One (1) Combination Stop and Tail Lamp		
8-Ton Hydraulic Jack (when specified)		
Electric Horn		
Front Shock Absorbers		
Wheel Wrench and Handle		
Dual, Air-actuated, Windshield Wipers		
R.H. and L.H. Windshield Defrosting Nozzles		
Single-hand Tachometer		
Manual Reset Circuit Breakers		
R.H. and L.H. Outside Rear View Mirrors		

OPTIONAL CHASSIS COMPONENTS

Wheelbase.....	135", Platform.....115" (H67LT only)
TRDL670.....	Mack 10-speed, Two-lever Duplex Transmission, Overgear in 10th (having aluminum bellhousing, main and compound cases)
TRDL675.....	Mack 10-speed, Unishift Transmission, Direct in 10th (includes clutch air assist and has aluminum bellhousing and main case)
TRDL6750.....	Mack 10-speed, Unishift Transmission, Overgear in 10th (includes clutch air assist and has aluminum bellhousing and main case)
TRDL72.....	Mack 10-speed, Two-lever Duplex Transmission, Direct in 10th (having aluminum bellhousing and main case)
TRDL720.....	Mack 10-speed, Two-lever Duplex Transmission, Overgear in 10th (having aluminum bellhousing and main case)
TRDL725.....	Mack 10-speed Unishift Transmission, Direct in 10th (includes clutch air assist and has aluminum bellhousing, main and compound cases)
TRDL7250.....	Mack 10-speed Unishift Transmission, Overgear in 10th (includes clutch air assist and has aluminum bellhousing, main and compound cases)
TRTL72.....	Mack 15-speed Triplex Transmission, Overgear in 15th (having aluminum bellhousing, main and compound cases)
TR720.....	Mack 5-speed Transmission, Overgear in 5th (for use with 2-speed axles only)

NOTE: TR72 Series Transmission Obligatory when
G.C.W. Exceeds 58,000 lbs.

RAD507.....	Mack Rear Axle with CRD78 Carrier
RAS509.....	Mack Rear Axle with CR884 Carrier
RAD509.....	Mack Rear Axle with CRD78 Carrier
RA2DT518.....	Timken Rear Axle with Timken RT340 (Mack Model CR2D101), 2-speed carrier (used only in combination with TR720, 5-speed transmission)

OPTIONAL CHASSIS COMPONENTS

(CONTINUED)

FA512.....	Mack front axle
10.00/20.....	12-Ply Rating Tires, Single Front and Dual Rear on 7.5 Rims
10.00/22.....	12-Ply Rating Tires, Single Front and Dual Rear on 7.5 Rims
11.00/20.....	12-Ply Rating Tires, Single Front and Dual Rear on 8.0 Rims
11.00/22.....	12-Ply Rating Tires, Single Front and Dual Rear on 8.0 Rims
10-22.5.....	10-Ply Rating Tubeless Tires, Single Front and Dual Rear on 6.75 Rims
11-22.5.....	12-Ply Rating Tubeless Tires, Single Front and Dual Rear on 7.5 Rims
11-24.5.....	12-Ply Rating Tubeless Tires, Single Front and Dual Rear on 7.5 Rims
12-22.5.....	12-Ply Rating Tubeless Tires, Single Front and Dual Rear on 8.25 Rims
12-24.5.....	12-Ply Rating Tubeless Tires, Single Front and Dual Rear on 8.25 Rims

Disc Wheels
Spare Disc Wheel
Clutch Brake (TR72 series transmission only)
*Clutch Air Assist (included with Unishift transmission) {Not available with 5-speed transmission
Air Starting
Hydraulic Power Steering, Mack Linkage Type
Heavy Duty Rear Springs
Front Wheel Brake Limiting Valve
"Sealco" Automatic Drain Valve
Breakaway Safety Valve (I.C.C. Requirement)
Hand Control Valve for Trailer Brakes
Exhaust Brake
Vertical Exhaust, R.H. Rear Cab Corner
Air Horn
Two (2) Combination Stop and Tail Lamps
Fuel Tanks:
 One (1) R.H. and one (1) L.H., Steel, Round Type
 or
 One (1), 125 Gallon Saddle Type
12 - Ton Hydraulic Jack
Safety Belt for Driver's Seat
Bostrom Seat
Mattress for Sleeper Cab (H67LT only)
Directional Signals, Front (one each side)
West Coast Type Mirrors, Enamel Finish (one each side)
Engine Thermostats
Cab Heater:-
 Fresh air and re-circulating hot water type, with defrosters.

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*Note added: October 2, 1958

GENERAL SPECIFICATIONS

DIMENSIONS-WEIGHTS-PERFORMANCE

DIMENSIONS

H67LT

Wheelbase.....	128"	135"
Centerline of front axle to front of bumper.....	27-5/8"	27-5/8"
Centerline of front axle to back of cab.....	53"	53"
Back of cab to centerline of rear axle.....	75"	82"
Centerline of rear axle to end of frame.....	33"	33"
Frame length, back of cab.....	108"	115"
Overall width of front fenders...	95"	95"
Overall length, front of bumper to end of frame.....	188-5/8"	195-5/8"
Chassis Assembly No.....	7RTA5111	

H69LT

Wheelbase.....	128"
Centerline of front axle to front of bumper.....	27-5/8"
Centerline of front axle to back of cab.....	39"
Back of cab to centerline of rear axle.....	89"
Centerline of rear axle to end of frame.....	33"
Frame length, back of cab.....	122"
Overall width of front fenders...	95"
Overall length, front of bumper to end of frame.....	188-5/8"
Chassis Assembly No.....	7RTA5114

NOTE: The following dimensions apply to H67LT and H69LT

Spoke Wheels

Tires:	9.00/20	10.00/20	10.00/22	11.00/20	11.00/22
Treads:-					
Front:-					
FA511	77.65"	76.89"	76.86"	76.38"	76.35"
FA512	79.42"	78.89"	78.86"	78.34"	78.34"

GENERAL SPECIFICATIONS

DIMENSIONS (CONTINUED)

Tires: 9.00/20 10.00/20 10.00/22 11.00/20 11.00/22

Treads:-

Rear:-

RAS507 - RAD507 - RAS509 - RAD509

71.38" 71.38" 71.38" 71.13" 71.13"

RA2DT519 - RA2DT518

70.89" 70.89" 71.20" 70.89" 71.20"

Overall width of rear tires, free:-

RAS507 - RAD507 - RAS509 - RAD509

94.10" 95.32" 95.32" 95.97" 95.97"

RA2DT518 - RA2DT519

93.37" 94.59" 94.90" 95.74" 96.05"

Aluminum Disc Wheels

Tires: 10.00/20 10.00/22

Treads:-

Front:-

FA511 77.00" 77.10"
FA512 78.50" 78.60"

Rear

RAS507 - RAD507 - RAS509 - RAD509

71.13" 71.13"

RA2DT518 - RA2DT519

72.52" 72.52"

Overall width of rear tires, free:-

RAS507 - RAD507 - RAS509 - RAD509

94.70" 94.70"

GENERAL SPECIFICATIONS

DIMENSIONS (CONTINUED)

Aluminum Disc Wheels

(Continued)

Tires:	10.00/20	10.00/22
Treads:-		
Rear		

Overall width of rear tires, free:-(cont'd)

RA2DT518 - RA2DT519

96.09"	96.09"
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Spoke or Disc Wheels

Tires:	9.00/20	10.00/20	10.00/22	11.00/20	11.00/22
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Road Clearance, Minimum:-

Front Axle at Center:

FA511	9.36"	9.95"	10.90"	10.51"	11.49"
FA512	8.83"	9.42"	10.37"	9.98"	10.96"

Rear Axle Under Bowl (except RA2DT518 - RA2DT519)

9.42"	10.01"	10.96"	10.57"	11.55"
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Rear Axle Under Bowl (RA2DT518 - RA2DT519)

9.35"	9.94"	10.89"	10.50"	11.48"
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* Turning circles (approx.) measured to outside edge of tires:-

<u>Right</u>	<u>Left</u>
4.6	4.6

* For Standard tire size, wheelbase and front axle

GENERAL SPECIFICATIONS

PERFORMANCE (CONTINUED)

TRDL670 - TRDL6750 Transmissions

Tire Sizes

9.00/20 10.00/20 10.00/22 11.00/20 11.00/22

Carrier Ratios

CRS84 CRD78

4.25	4.28	71	73	77	75	79
4.63	4.66	65	67	70	68	71
5.14	5.36	58	60	63	62	65
5.57	5.78	53	55	58	57	59
6.17	6.35	49	50	53	52	54
6.83	-	44	45	47	46	49

TRDL720 - TRDL7250 Transmissions

9.00/20 10.00/20 10.00/22 11.00/20 11.00/22

Carrier Ratios

CRS84 CRD78

4.25	4.28	72	74	78	76	80
4.63	4.66	65	67	70	69	71
5.14	5.36	59	61	64	63	66
5.57	5.78	54	56	59	58	60
6.17	6.35	49	51	54	53	55
6.83	-	45	46	48	47	50

TRTL72 Transmission

Tire Sizes

9.00/20 10.00/20 10.00/22 11.00/20 11.00/22

Carrier Ratios

CRS84 CRD78

4.25	4.28	65	67	70	69	72
4.63	4.66	60	62	65	64	67
5.14	5.36	54	56	59	58	60
5.57	5.78	49	51	54	53	55
6.17	6.35	45	46	48	47	50
6.83	-	41	42	44	43	45

GENERAL SPECIFICATIONS

PERFORMANCE (CONTINUED)

TR720 Transmission

RA2DT518 - RA2DT519 Rear Axles (CR2D101 Carrier)

Tire Sizes

	<u>9.00/20</u>	<u>10.00/20</u>	<u>10.00/22</u>	<u>11.00/20</u>	<u>11.00/22</u>
<u>Carrier Ratios</u>					
5.34	45	58	61	60	63
7.10	33	44	46	45	48
6.16	39	51	54	53	55
8.31	28	38	36	37	41

ENGINE

(DIESEL)

Make..... Mack
Model..... ENDL673 (with aluminum flywheel housing, front and rear water manifolds, inlet and outlet water fittings and valve lifter covers)
Number of cylinders..... Six
Bore..... 4-7/8"
Stroke..... 6"
A.M.A. horsepower..... 57.0
Brake horsepower at gov.speed..... 170 @ 2100 R.P.M.
Piston displacement, cu.in..... 672
Compression at 1000 RPM..... 530
Compression ratio..... 16.59 to 1
Maximum torque at 1200 RPM:
Pounds inches..... 5760
Pounds feet..... 480
Brake mean effective pressure..... 107.7 lbs. per sq. in at 1200 RPM
Suspension..... Three point, rubber mounted
Flywheel housing..... SAE No. 1 or SAE No. 2 (aluminum)
Cylinders cast in..... Block
Material..... Chromium-nickel alloy
Cylinder sleeves:
Material..... Special alloy iron, Parco-Lubrited
Type..... Dry
Cylinder heads cast in..... Threes
Material..... Chromium-nickel alloy
Number of studs..... 36
Inlet manifold:
No. of sections..... One (sheet metal)