MACK TRUCKS

MODELS

RM 4874 X SERIES

- MAXIMUM TRACTION FULL TIME ALL-WHEEL DRIVE
- MAXIMUM FRONT AXLE LOADING
- NEW FENDER DESIGN
- NEW IMPROVED CAB

STANDARD EQUIPMENT — 4-Wheel Drive Chassis

WHEELBASE ..... 148" (I.P 136", CA 84")

ENGINE: (MACK Diesel) *ET477
Type ..... Turbocharged, 6 cyl.
Bore & Stroke ..... 4 5/8" x 4 3/4"
Piston displacement, cu. in. 475
Brake horsepower @ 2400 rpm 210
Maximum torque @ 1500 rpm 510
Lube oil filter ..... Cantrifugal
Air cleaner ..... Dry Type
Radiator frontal area ..... 1000 sq. in. (Anti-Oil Cast Tank)
Fuel pump ..... Robert Bosch

FUEL TANK ..... 55 gal., L.H., steel, round step

ELECTRICAL SYSTEM: Alternator ..... 12 Volt, 65 Amp.
Starting system ..... 12 Volt
Batteries ..... (4) 6 Volt
Plates per cell: 23, Am. @ 20 hr. rate 165

CLUTCH: ..... CL 696 or CL 775
Make ..... Spicer ..... Lipe
Size ..... 14" - 2-plate ..... 14" - 2-plate
Lining ..... Organic ..... Organic
Area of engagement ..... 423 sq. in. ..... 423 sq. in.

TRANSMISSION CM-5052-A
Type ..... 5 Speed, Helical Gear

TRANSFER CASE: (MACK) ..... TC 15 Series

FRONT AXLE: ..... FAS 6151W (16,000 lbs. cap.)
Carrier ..... CRS 135
Ratios ..... See approved axle ratio & Tire Chart

REAR AXLE: (MACK) ..... RAS 406C (18,500 lb. cap.)
Carrier ..... CRS 136
Ratios ..... See approved axle ratio & Tire Chart

*Not certified for State of California

SPRINGS:

	Front	Rear
Size	50" x 3 1/4"	46" x 3"
Type	Semi-Elliptic	Variable Rate w/Leaf Type Radius Rod
Leaves, no. & thickness	6 @ .656"	Main: 5@ .401", 10 @ .360" Rad. 3 @ .401"
Helper Springs	Adj. Rubber Lead Cushion	8 @ .291" Leaf Spring
Ground Rating	16,000 lbs.	18,500 lbs.

BRAKES: Type ..... Full Air
Front (Wedge Type) ..... 17" x 5" (302 sq. in.)
Rear (S-Cam) ..... 16½" x 7" (434 sq. in.)
Parking ..... Spring Brake Chambers on Rear Axle
Air Compressor ..... EL-1300 12.9 CFM
Reservoir Capacity ..... 4508 cu. in.
Brake Adjustment ..... Automatic Front, Rear

WHEELS and TIRES:
Wheels ..... Steel Disc
Tires ..... 10.00-20 (12P) 8.0 Rims

STEERING GEAR: Model ..... Sheppard SSP 49
Steering wheel diameter: ratio ..... 22"; 20.1:1

FRAME:

Size	Material	Section Modulus	RBM in Lbs Per Rail
10¾" x 3⅜" x ⅜"	Heat-treated 110,000 PSI Minimum Yield Strength Steel	17.85	1,960,000

CAB ..... CA 49 (incl. rider seat)
Type (118" BBC) ..... Conventional two-man, center-mount

STANDARD CHASSIS WEIGHT ..... EST. LBS.
Front 8,864, Rear 3,318, Total 12,182 LBS.

CHASSIS EQUIPMENT

Air cleaner intake — inside/outside with control in cab
Air pressure buzzer (low pressure indicator)
Bumper — 12" steel, extended 4"
Cab dome lamp
Cab heater — fresh air, 37,500 BTU
Cab roof vent
Cab steps, left & right hand
Circuit breakers, automatic reset
Engine fan, viscous type
Engine oil pressure gauge
Engine stop control
Engine temperature gauge
Exhaust, underframe
Hood — steel butterfly and flat fenders set back for plow wing
Horn — electric single tone
Lights — ICC marker lights and side reflectors
Lights — combination stop, tail and rear turn signals (2)
Lights—backup, automatic
Rear view mirrors — two, West Coast type
Seat, driver's (Mack)
Seat, rider's (Mack)
Seat belts and anchors
Speedometer
Steering column, adjustable
Sun visor, left side
Tachometer, single hand
Throttle Control, Hand
Tow loops front, frame mounted
Transfer differential air lockup switch w/indicator light
Turn signals, front (with 4-way flasher)
Voltmeter
Windshield glass, Solex
Windshield washers
Windshield wipers, dual air, single motor
Mandatory Option:
Rear Anti-Wheel Lock System

OPTIONAL EQUIPMENT • RM 4874X

★ INDICATES OPTIONS TO BE CONSIDERED FOR SNOW PLOW APPLICATIONS

WHEELBASE ..... 139", 151", 157", 163"
(See Dimensional Chart for LP&CA.)

FRAME:
Reinforcement ..... Full ¼" liner channel
Combined section modulus 27.7
RBM ..... 3,050,000 in lbs. per rail

★ **FRONT SPRINGS:**

Spring designation	*1	2	3
Ground load rating	14,000 lbs.	16,000 lbs.	18,000 lbs.
Size	50¼" x 3½"	50¼" x 3½"	50¼" x 3½"
Leaves: no. & thickness	6 @ .558	7 @ .558	8 @ .558

Designate "RH wingplow" (Heavier RH spring supplied)
*Standard

★ **TRANSMISSIONS:**
RT 610 (Fuller) ..... 10 speed roadranger, direct
MT 643 (Allison) ..... 4 speed, automatic

TRANSFER CASE: (Model Determined By Tires & Speed Selected)
TC15 ..... 2 spd, Hi 1.00, Lo 2.59
Front Drive Ratio ..... .965
TC151 ..... 2 spd, Hi 1.00, Lo 2.59
Front Drive Ratio ..... .838
TC152 ..... 2 spd, Hi 1.00, Lo 2.59
Front Drive Ratio 1.00
TC 150 ..... 2 spd, Hi .769, Lo 1.99
Front Drive Ratio ..... .966
TC 1510 ..... 2 spd, Hi .769, Lo 1.99
Front Drive Ratio ..... .838
TC 1520 ..... 2 spd, Hi .769, Lo 1.99
Front Drive Ratio 1.00

REAR AXLE: (Mack) ..... **RAD 530 C** (23,000 lb. cap.)
Carrier ..... CRD 117
Optional carrier with Mack inter wheel automatic torque biasing power divider ..... CRD 1171
Ratios ..... See approved ratio & tire chart
Tire size ..... See approved axle ratio & tire chart

REAR SPRINGS: (RAD 530)
Size ..... 46" x 3"
Leaves, no. & thickness ..... Main: 14 @ .447", Rad. 3 @ .447"
Helper ..... 8 @ .291"

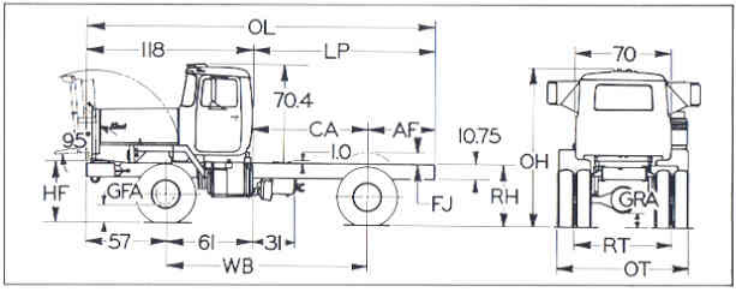
ALTERNATOR:
12 Volt ..... 65 Amp. (L/N) (obligatory with air conditioning)
12 Volt ..... 75 Amp. (Delco)
12 Volt ..... 90 Amp. (Delco)

★ **WHEELS and TIRES:** See approved tire & axle ratio chart

FUEL TANK:
75 gal., left side, steel, round, step

OPTIONAL CHASSIS EQUIPMENT:
★ Automatic Drain Valve
★ Air Dryer BW System Guard
★ Brake System, Alcohol Evaporator
Cab Air Conditioning
Chrome Plated Front Turn Signals
Chrome Plated West Coast Rear View Mirrors
★ Cold Starting Aid (Ether Applicator)
★ Crankshaft Adapter for Snowplow Pump Drive
Driver's Seat — Suspension
Engine Coolant Conditioner, Spin-On Disposable type
Engine Shutdown System
Engine Warning System
Front Wheel Brake Limiting Valve
Hand Control Valve
Horn, Air, Twin or Single
Horn, Electric, Dual Tone
Hubodometer
Hydraulic Jack, 8 or 12-ton
PTO on Rear of Transfer Mainshaft; Air Control in Cab (180 hp)
Radiator Shutters, automatic
Radiator Guard, Plate Type
Rider's Seat, 2-man
Spare Disc Wheel
Sun Visor, Right Side
Tachograph (RPM and/or MPH)
Tow Pin in center of 12" Bumper replacing Front Tow Loops
Tow Hooks, Rear, Frame Mounted
★ Vertical Exhaust
Wig-Wag Low Air Pressure Indicator
Window Power Lift, Right Side

ENGINE	CLUTCH	TRANSMISSION	TRANSFER CASE	FRONT DRIVE AXLE	REAR AXLE
ET 477	CL 696 CL 775	CM-6052 A RT 610 MT 643	TC 15 Series	FAS 8151W	RAS 406C RAD 530C



WB	LP	CA	AF	OL	Turning Circle Dia. Outer Edge of Tire (In Feet)	
					Left	Right
139	136	78	58	254	25.5	25.5
145	136	84	58	254	26.3	26.3
151	136	90	58	254	27.2	27.2
157	136	96	58	260	28.0	28.0
163	136	102	58	266	28.8	28.8

Tire Size	Wheel Type	FAS 615HW			
		HF		GFA	OH
		Empty	Loaded	Loaded	
10.00/20	Disc	44.8	42.3	41.2	11.7
11.00/20	Disc	45.4	43.4	41.7	11.8
12.00/20	Disc	46.1	44.0	42.3	11.7
15.5-22.5	Disc	48.1	44.0	42.3	11.5

Tire Size	Wheel Type	RAD 520C					RAS 405C					
		RF	OI	RH		GRA	FJ	RT	BI	RH		GRA	FJ
				Empty	Loaded	Loaded				Empty	Loaded	Loaded	
11.00/22	Disc Duals	–	–	–	–	–	–	71.2	55.2	45.9	41.8	40.2	6.2
11.00/22	Disc Duals	71.1	55.64	46.0	40.3	40.7	7.4	71.2	55.6	45.5	42.4	39.7	7.4
12.00/22	Disc Duals	74.2	58.2	46.7	42.5	41.3	8.1	–	–	–	–	–	–
12.00/20	Disc Single	84.5	66.8	45.7	42.5	41.3	8.2	84.6	67.0	46.3	43.3	41.1	8.1
15.5-22.5	Disc Single	83.8	66.2	46.2	42.5	41.3	8.2	83.8	66.2	46.3	43.3	41.1	8.1