



ECONOMICAL  
COOL, CLEAN MAXIDYNE "300" POWER



**MACK  
TRUCKS  
AUSTRALIA**

**MODEL  
R686RST**

**SIX WHEEL TRUCK TRACTOR  
HIGHWAY DUTY**

**STANDARD SPECIFICATIONS**

**WHEELBASE:** 4191 mm (165")

**FRAME:** 228 x 82.5 x 6.3 mm + 6.3 mm I.C.  
(9" x 3.25" x .25" + .25" I.C.)

Material: Heat Treated Alloy Steel.  
Section Modulus: 17.8; R.B.M. 1,960,000 in/lbs/rail.  
Flush Type Front Bumper; Towing Provision.

**FRONT AXLE:** MACK FAW537C Wide Track  
Reverse Elliot, Forged I Beam.  
Nom. Capacity: 5448 kg (12,000 lbs.)

**Springs:** 1371 x 89 mm (54" x 3.5");  
No. of Leaves & thickness: 10 x 7.9 mm (.312")  
Telescopic Shock Absorbers.

**Brakes:** Air, Cam & Lever;  
Size: 419 x 127 mm, 2012 cm<sup>2</sup> (16.5" x 5", 312"²)

**BOGIE:** MACK SWS56C/W\*, Axle Spacing: 1270 mm (50")  
Carriers: Dual Reduction, Top Mounted; CRDPC92 & CRD93  
Inter-Axle Power Divider: In Forward Axle.  
Ratios: 4.17, 4.5, 5.13, 5.73, 6.34  
Nom. Capacity: 15436 kg (34,000 lbs.)

**Springs:** 1270 x 101 mm; (50" x 4")  
Leaves, No. & thickness: 9 x 15.8 mm (.625")

**Brakes:** Air, Cam & Lever;  
Size: 419 x 178 mm, 5676 cm<sup>2</sup> (16.5" x 7", 880"²)

\*W: Wedge Type Brakes: 381x178mm, 5676 cm<sup>2</sup> (15" x 7", 880"²)  
Air Compressor: Tu Flo 501, 340070 cm<sup>3</sup> (12 cu. ft.)  
Air Reservoir, Isolated, Cap: 49200 cm<sup>3</sup> (3,000"³)

Breakaway Safety Valve; Hand Control Valve; Semi-Trailer  
Brake Connections; MGM Aux. Spring Brake, with  
separate release tank; Low Air Press. Ind., Buzzer  
Type; Flex. Air Lines.

**ENGINE:** MACK Maxidyne "300" Diesel, Mod. ENDTB676.

Type: Turbocharged, Intercooled, 6 cyl. in-line.  
Bore & Stroke: 123 x 152 mm (4.875" x 6")  
Piston Displacement: 11.01 litres (672"³)  
Max. Power: 210 kW (285 b.h.p.) @ 1800 r.p.m.  
208 kW (283 b.h.p.) @ 2100 r.p.m.  
Max. Torque: 1469 Nm (1080 ft./lbs.) @ 1200 r.p.m.  
Fuel Pump: American Bosch, APE6.  
Total Oil Cap: 31.2 litres (6.86 Imp. Gall.).  
E.S.I. Oil Filter System.

Air Cleaners: Donaldson, Dry Type.  
Radiator, Front Area: 6450 cm<sup>2</sup> (1,000"²)  
Coolant Cap: 54 litres (11.8 Imp. Gall.).  
Flex. Lines, Oil & Fuel Circuits.  
Underframe Exhaust:

**MACK Dynatard Engine Brake.**

**STARTING SYSTEM:** Air, Ingersoll Rand.

**ELECTRICAL SYSTEM:** 12V, 85 Amp. Alternator.

**CLUTCH:** Two Plate, Ceramic Metallic Button Type Facings;  
Dia.: 393 mm (15.5").

**TRANSMISSION:** MACK Maxitorque, TRL1078.  
Type: 5 Speed, Direct 5th, 3 countershaft.  
Ratio Range: 8.59 to Direct; Rev. 8.81.  
P.T.O. Provision: Left Side, 8 stud, Std. S.A.E.  
Right Side, 6 stud, Std. S.A.E.

**DRIVESHAFT:** Spicer 1810 Series;  
Dia.: 114 mm (4.5"); thickness: 6.5 mm (.259").

**STEERING:** Manual Type.  
Steering Wheel Dia.: 508 mm (20"); Ratio 28.1 : 1.

**WHEELS & TYRES:** Wheels: Cast Steel Spoke;  
Rims: 190 mm (7.5").  
Tyres: 254 x 508 mm (10" x 20") x 12 ply Rayon  
(Aust. Mfr.).

**FUEL TANKS:** Steel, Square Step Type.  
1 x 321 & 1 x 208 litres (1 x 70 & 1 x 46 Imp. Gall.).

**CAB:** CAR493.  
Type: Bonnetted, Two-Man, All Steel, with R.P. (Fibreglass)  
Tilting Eng. Hood/Fenders; BBC: 2692/2844 mm  
(106"/112"); Two-Way Roof Vent; Heater/Demister;  
Dual Windshield Wipers, Air, Single Motor; Windshield  
Washers, Blade Mounted Jets; Dual West Coast R.V.  
Mirrors (Black); Laminated Windshield; Int. Sunvisor,  
driver's side; Fixed Frame, Cushion Type Seats.

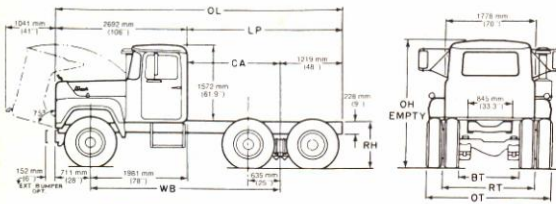
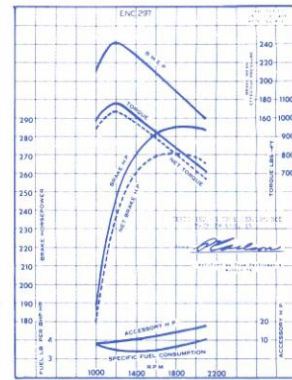
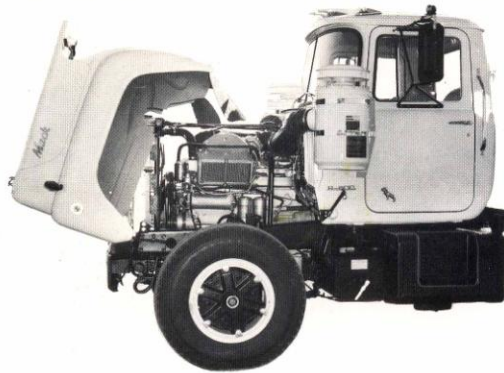
**PAINTWORK:** Cabin: Single colour, e.g. Red, Green, White,  
Yellow, Black  
Running Gear & Frame: Black.

**INSTRUMENTATION:** Speedometer (km/hr) Exhaust Pyrometer  
Oil Pressure Gauge; Air Pressure Gauge; Voltmeter;  
Coolant Temp. Gauge; Tachourmeter, single hand.

**ELECTRICAL:** Single Tone Horn; Automatic Reset Circuit  
Breaker; I.C.C. & Marker Lamps; Front Turn Ind. Lamps;  
Clearance Lamps; Stop/Tail Lamps; Automatic Back-up  
Lamp; Park Lamps; Semi-Trailer Connections.  
12 tonne Jack, Handle, Wheel Wrench.

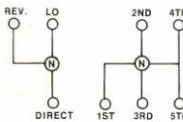
**R686RST**  
**UNITISED**  
**ENGINE HOOD/**  
**FENDERS**  
**ASSEMBLY:**

**TILTS FOR**  
**"WALK-IN"**  
**ENGINE ACCESS**



**OPTIONAL TRANSMISSIONS,**  
**MAXITORQUE 3 COUNTERSHAFT**

**TRXL107**

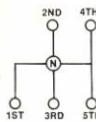


Speed	Direct	Lo Range	Rev.
1st	8.59	14.10	36.66
2nd	4.99	—	21.32
3rd	2.84	—	12.11
4th	1.66	—	7.07
5th	1.00	—	4.27

**6-SPEED, LO-RANGE LOW & REVERSE**

**TRTXL107 12-SPEED**

**TRDL107**



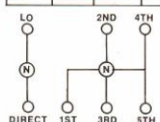
Speed	Direct	Under-Drive	Rev.
1st	8.59	11.04	36.66
2nd	4.99	6.42	21.32
3rd	2.84	3.65	12.11
4th	1.66	2.13	7.07
5th	1.00	1.29	4.27

**10-SPEED**

**AIR SPLITTER SHIFT**



Speed	Front Comp.	Direct	Rear Comp.	Double Comp.	Rev.
1st	14.44	8.59	11.04	18.56	36.66
2nd	—	4.99	6.42	—	21.32
3rd	—	2.84	3.65	—	12.11
4th	—	1.66	2.13	—	7.07
5th	—	1.00	1.29	—	4.27



WB.	LP	C.A.	A.F.	O.L.	Turning Circle Dia. (Outer Edge of Tyre Est.)	
					Right	Left
3733 (147)	2971 (117)	1752 (69)	1219 (48)	5664 (223)	17.1 (56)	17.1 (56)
4191 (165)	3429 (135)	2209 (87)	1219 (48)	6121 (241)	18.6 (61)	18.6 (61)
4648 (183)	3886 (153)	2667 (105)	1219 (48)	6578 (259)	20.1 (66)	20.1 (66)
4953 (195)	4191 (165)	2971 (117)	1219 (48)	6883 (271)	21.0 (69)	21.0 (69)
5257 (207)	4495 (177)	3276 (129)	1219 (48)	7188 (283)	21.9 (72)	21.9 (72)
5740 (226)	5994 (236)	3759 (148)	2235 (88)	8737 (344)	23.4 (77)	23.4 (77)
6985 (275)	8001 (315)	5003 (197)	2997 (118)	10744 (423)	27.4 (90)	27.4 (90)

Chassis dimensions are in millimetres, and (inches) and are for standard units unless otherwise denoted. Turning circles are in metres, and (feet).

Tyre Size	O.H. Approx.	R.H.		Front Tread	O.T.	R.T.	B.T.
		Empty	Loaded				
254 x 508 (10.00 x 20)	2524 (99.4)	1011 (39.8)	963 (37.9)	1953 (76.9)	2420 (95.3)	1813 (71.4)	1206 (47.5)

Frame Heights are subject to variations: 25 mm (1") empty, 12.7 mm (.5") loaded. Dimensions are in millimetres and (inches).

**OPTIONAL EQUIPMENT**

- STEERING:** Power Assisted.
- SEAT/S:** Air, Bostrom.
- FUEL TANKS:** Aluminium or Steel Step Type:  
 208 litres (46 Imp Gal)    265 litres (58 Imp Gal)    321 litres (70 Imp Gal)
- FRAME:** 266 x 82.5 x 6.3 mm (10.5" x 3.25" x .25")  
 Single — up to 3810 mm (150") Wheelbase
- EXHAUST:** Vertical.
- HORN/S:** Air.
- R.V. MIRRORS:** West Coast Type, Chrome.
- PAINT COLOURS:** To Client's requirements, in Polyurethane Paint.

The policy of Mack Trucks Australia Pty. Ltd. being one of continuous product improvement, the right is reserved to change specifications and illustrations without notice.

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