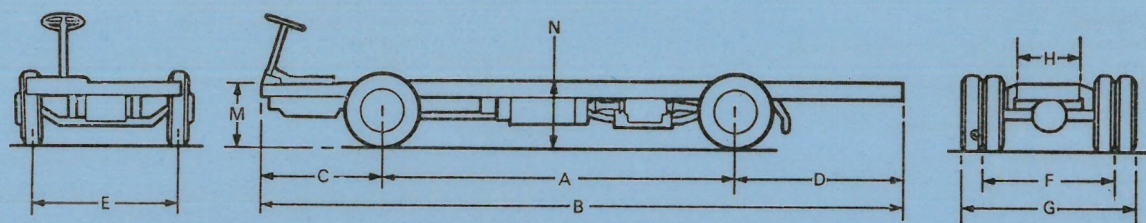




LEOPARD

UK & INTERNATIONAL

PSU4E. 2R
PSU4E. 4R
PSU3E. 2R
PSU3E. 4R



NOMINAL CHASSIS DIMENSIONS

MODEL	A	B*	C*	D	E	F	G	H	M†	N‡
PSU3E.2R BUS	5 639 mm 18 ft 6 in	11 000 mm 36 ft 1 in	2 235 mm 7 ft 4 in	3 124 mm† 10 ft 3 in	1 977 mm 6 ft 5.5 in	1 816 mm 5 ft 11.5 in	2 385 mm 7 ft 9.9 in	864 mm 2 ft 10 in	838 mm 2 ft 9 in	889 mm 2 ft 11 in
PSU3E.4R COACH	5 639 mm 18 ft 6 in	11 000 mm 36 ft 1 in	2 235 mm 7 ft 4 in	3 124 mm† 10 ft 3 in	1 977 mm 6 ft 5.5 in	1 816 mm 5 ft 11.5 in	2 385 mm 7 ft 9.9 in	864 mm 2 ft 10 in	823 mm 2 ft 8.4 in	874 mm 2 ft 10.4 in
PSU4E.2R BUS	4 927 mm 16 ft 2 in	10 000 mm 32 ft 11.7 in	2 235 mm 7 ft 4 in	2 837 mm 9 ft 3.7 in	1 977 mm 6 ft 5.5 in	1 816 mm 5 ft 11.5 in	2 385 mm 7 ft 9.9 in	864 mm 2 ft 10 in	838 mm 2 ft 9 in	889 mm 2 ft 11 in
PSU4E.4R COACH	4 927 mm 16 ft 2 in	10 000 mm 32 ft 11.7 in	2 235 mm 7 ft 4 in	2 837 mm 9 ft 3.7 in	1 977 mm 6 ft 5.5 in	1 816 mm 5 ft 11.5 in	2 385 mm 7 ft 9.9 in	864 mm 2 ft 10 in	823 mm 2 ft 8.4 in	874 mm 2 ft 10.4 in

*Maximum, including coachbuilder's tolerance

† Fully laden

‡ Includes drop frame extension

APPROXIMATE CHASSIS WEIGHTS

MODEL	Chassis dry weight	Chassis kerb weight			Gross Vehicle Weight	Swept Turning Circle (Approx.)
	Total	Front Axle	Rear Axle	Total		
PSU3E.2R BUS	4 638 kg 4.56 ton	2 310 kg 2.27 ton	2 620 kg 2.58 ton	4 930 kg 4.85 ton	11 431 kg 11.25 ton	21.64 m 71 ft
PSU3E.4R COACH	4 790 kg 4.71 ton	2 348 kg 2.31 ton	2 734 kg 2.69 ton	5 082 kg 5.00 ton	12 346 kg 12.15 ton	21.64 m 71 ft
PSU4E.2R BUS	4 630 kg 4.56 ton	2 297 kg 2.26 ton	2 578 kg 2.54 ton	4 875 kg 4.80 ton	11 431 kg 11.25 ton	21.64 m 71 ft
PSU4E.4R COACH	4 782 kg 4.70 ton	2 335 kg 2.30 ton	2 692 kg 2.65 ton	5 027 kg 4.95 ton	11 431 kg 11.25 ton	21.64 m 71 ft

PERFORMANCE GUIDE (PSU4E.2R PSU4E.4R PSU3E.2R)

Axle Ratio	Max. Geared Speed		Max. Climb Gradient		Max. Restart Gradient	
	Direct		1 in	%	1 in	%
	MPH	KPH				
3:31	72.1	116.0	6.5	15.4	7.4	13.5
3:70	64.5	104.0	5.8	17.2	6.5	15.4
4:11	58.0	93.4	5.2	19.2	5.7	17.5
4:56	52.3	84.2	4.6	21.7	5.1	19.6

PERFORMANCE GUIDE (PSU3E.4R)

Axle Ratio	Max. Geared Speed		Max. Climb Gradient		Max. Restart Gradient	
	Direct		1 in	%	1 in	%
	MPH	KPH				
3:31	79.3	127.6	7.1	14.0	8.1	12.3
3:70	71.0	114.1	6.3	15.8	7.1	14.0
4:11	64.0	103.0	5.6	17.8	6.3	15.8
4:56	58.0	93.0	5.0	20.0	5.5	18.2

Calculations based on standard wheel and tyre equipment and based on the following:—Rolling Resistance 0.131 N/kg (30 lb/ton) for Climb Gradient, 0.262 N/kg (60 lb/ton) for Restart Gradients, Transmission Efficiency 85% Indirect Gears. Air resistance ignored.

All dimensions, weights, performance figures, etc. quoted in this data sheet are for guidance only. As chassis are manufactured from a large permutation of different parts it is not possible to prevent variations in dimensions, weights, etc.

NOTE: If the vehicle is required to be fitted with PT tyres then the maximum obtainable road speed must not exceed 50 mile/hr.

STANDARD EQUIPMENT

AXLE FRONT

Leyland alloy steel 'I' beam
Capacity—5 588 kg (5.5 ton)

AXLE REAR

Spiral bevel, single speed
Capacity—10 160 kg (10.0 ton)
Ratios—3.3:1, 3.7:1, 4.11:1, 4.56:1

BODYWORK EQUIPMENT

Combined switchboard and terminal box with warning lights for alternator, oil pressure and flashing indicators. Control board supplied loose. Flush-fitting headlamps with double filament pre-focused bulbs — supplied loose. Fog lamps — supplied loose. Side lamps. Twin windtone horns and switch.

Water temperature and dual air pressure gauge. Electromag speedometer with mileage recorder. Headlamp dip switch, column mounted. Cable harnesses for completion by body builder. Reversing switch in reverse gear air-line. Warning light for spring brakes. Circular instruments supplied loose

BRAKES, SERVICE

Dual-line split system, full air, both axles

Operation—Diaphragm

Footbrake area—4 529.3 cm² (702 in²)

Front—393.7 mm x 127 mm x 19.05 mm (15.5 in x 5.0 in x 0.75 in)

Effective area—1 742 cm² (270 in²)

Rear—393.7 mm x 203.2 mm x 19.05 mm (15.5 in x 8.0 in x 0.75 in)

Effective area—2 787.3 cm² (432 in²)

BRAKES, PARKING

Spring brakes—Separate air reservoir (rear axle only)
Fail safe system

BRAKES, EQUIPMENT

Compressor—Leyland, 0.425 m³/min (15 ft³/min), water cooled
Anti-freeze device. Condenser with automatic drain valve
Automatic slack adjusters

COOLING SYSTEM

Leyland patented no-loss. Pressurised, pump circulated
Radiator—Flat tube stack type
Total coolant capacity—41 litre (9 gal)
Fan—482 mm (19.0 in dia.)
Fan drive—Shaft at 1.6 times engine speed

ELECTRICAL EQUIPMENT

BUTEC 24V insulated return
Batteries—Lead acid type
Capacity—121 Ah on 10-hr rating
Starter—BUTEC
Alternator—BUTEC 60A

ENGINE

Leyland 680 six-cylinder diesel
Displacement—11.1 litre (677 in³)
Bore—127 mm (5 in)
Stroke—146 mm (5.75 in)
Compression ratio—15.75:1
Rating on PSU4E.2 and 4 and PSU3E. 2:
BS AU 141a 1971 rating—125.5 kW (168 bhp) at 2000 rev/min
Gross torque—644 Nm (475 lbf ft) at 1300 rev/min
Rating on PSU3E.4:
BS AU 141a 1971 rating—130.7 kW (175 bhp) at 2200 rev/min
Gross torque—644 Nm (475 lbf ft) at 1300 rev/min

ENGINE EQUIPMENT

Air cleaner—Cyclopac type
Crankcase ventilation—Open standpipe on sump
Oil filter—Full flow
Getefo rubber mountings

FLUID LOCK-UP COUPLING

Centrifugal lock-up clutch (PSU3E.2R and PSU3E.4R)
Capacity—14.9 litre (26.25 pints)
Fully charged coupling (PSU4E.2R and PSU4E.4R)
Capacity—(See gearbox for capacity)

FRAME

Parallel side pressed channel-section alloy steel
Side-member dimensions—203.2 mm x 76.2 mm x 7.14 mm (8.0 in x 3.0 in x 0.28 in)
Reinforced channel-section within wheelbase
Dimensions—188.9 mm x 69.1 mm x 6.35 mm (7.44 in x 2.72 in x 0.25 in)
Frame width—864 mm (34 in)
Finish—Silver mist and Tectyl preservative

Note: Any deviation from standard specification must be approved by the Engineering Division

OPTIONAL EQUIPMENT

AXLE, REAR

Two-speed type
Capacity—10 160 kg (10.0 ton)
Ratios—Consult Leyland regarding suitable ratios
Axle ratios to be approved by Leyland

BRAKE EQUIPMENT

Mira anti squeal pads

CHASSIS LUBRICATION

Airdromic automatic

COOLING SYSTEM

Coolant water level indicator
Direct air gear operation

ELECTRICAL EQUIPMENT

Alternator 80A
CAV starter motor

ENGINE EQUIPMENT

Oil dispenser—Lubrimatic
Extended oil filler and dipstick
Centrifugal filter

FUEL SYSTEM

Alternative position of fuel tank

GEARBOX

Five speed wide ratio semi-automatic gearbox
G2 fully automatic transmission
Hill holding device

FUEL SYSTEM

Direct injection
Injection pump—In-line
Governor—Mechanical
Lift pump—Positive displacement type
Operation—Mechanical
Fuel tank—Welded cylindrical construction
Capacity—195 litre (43 gal) (PSU3 models)
150 litre (33 gal) (PSU4 models)
Filter cap—Captive type
Fuel gauge—Magnetic
Fuel filter—Sedimenter and agglomerator
Fuel cut-off tap, Saunders type

GEARBOX

Leyland 5 speed close ratio independently mounted gearbox (PSU3 models)
Capacity—13.5 litre (24 pints)
Leyland 5 speed close ratio unit mounted gearbox (PSU4 models)
Capacity—29.7 litre (52 pints) including fluid coupling
Ratios—5th 1:1, 4th 1:502:1, 3rd 2:123:1, 2nd 3:226:1, 1st 5:204:1, reverse 3:73:1
Operation—Electro pneumatic column mounted change speed lever

SHOCK ABSORBERS

Front—Telescopic T67

STEERING GEAR

Cam and double roller
Ratio—34.5:1
Wheel diameter—533.4 mm (21 in)

SUSPENSION

Spring type—Semi-elliptic laminated leaf
Front—4 572 kg (4.5 ton) capacity at ground (all models except PSU3E.4R)
5 488 kg (5.4 ton) capacity at ground (PSU3E.4R)
Length—1524 mm (60 in)
Width—76 mm (3 in)
Rear—6 858 kg (6.75 ton) capacity at ground
Length—1575 mm (62 in)
Width—76 mm (3 in)

TOOLS

Hydraulic jack, handle and wheelnut spanner

TRANSMISSION

1600 series propeller shaft engine to gearbox (PSU3)
1700 series propeller shaft gearbox to back axle (PSU3 & 4)

TYRES

Front and rear—11 x 22.5 tubeless radials

WHEELS

Disc type, 10-stud
Size of rim—B7.5 x 22.5 with 6 in offset
Spare wheel and carrier (only on PSU3E.4R)

STEERING

Power-assisted steering
Ratio—28.5:1
Operation—Separate hydraulic ram
Pump—Gear driven

SUSPENSION

Heavy duty front springs, 5 488 kg (5.4 ton) capacity at ground (not PSU3E.4R)
Length—1 524 mm (60 in)
Width—76 mm (3 in)
Heavy duty rear springs, 8 639 kg (8.5 ton) capacity at ground
Length—1 575 mm (62 in)
Width 76 mm (3 in)
With these springs fitted Leyland to be consulted regarding suitable axle ratios

TYRES

Spare tyre (all models except PSU3E.4R)
Front and rear—10.00 x 20 radial
10.00 x 20 16 ply

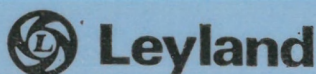
WHEELS

Spare wheel (all models except PSU3E.4R)
Spare wheel carrier (all models except PSU3E.4R)

ADDITIONAL EQUIPMENT

Tool kit

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