

SERIES 15/120

Refuse Collector.

Purpose Built

TSR

Chassis

Chassis Specification (Subject to alteration without notice)

ENGINE: PERKINS SIX 354 DIESEL. 6 cylinder, 4 stroke, direct injection. Bore 3.875 in. Stroke 5 in. Cubic capacity 354 cu. in. (5.8 litres) Develops 106 b.h.p. at 2,400 r.p.m. governed speed. Cylinder Block and Crankcase integrally cast in high-duty iron. Dry type, renewable, pressed in liners are fitted. Air Cleaner: An efficient oil-bath air cleaner is fitted on the induction manifold. Cold Starting: A "Thermostart" heater is fitted to the induction for easy starting.

COOLING SYSTEM A centrifugal water pump at front of engine is driven by a vee belt which also drives a 4-bladed fan of 18 ins. dia. and alternator.

GEAR BOX Assembled with engine and clutch in complete unit. Five forward speeds and one reverse. 1st- and 2nd-speed gears are wide-faced straight- toothed. The 3rd-, 4th- and 5th-speed gears have helical gears for quiet running. All gears are of case-hardened nickel-chrome steel and all forward gears except first, are in constant mesh.

6.988 to 1 Ratio: 1st gear 2nd gear 4.308 to 1 3rd gear 2.655 to 1 4th gear 1.605 to 1 5th gear 6.343 to 1 Revese

The gear change lever is turret mounted on the gear box.

CLUTCH 14-in. dia. dry-plate Borg & Beck with low unit pressure on linings, ball-bearing release, hydraulic operation and external lubrication.

RADIATOR Flat-tube type with integral tanks and concealed filler. Pressurised water system. A thermometer is provided in the instrument panel to enable driver to control water temperature.

TRANSMISSION Through balanced tubular propeller shafts supported by spherical centre bearing mounted on rubber bushes. Hardy Spicer heavy-duty needle-roller bearings are incorporated throughout and a sliding shaft in the rear section.

REAR AXLE Static load capacity at ground of 10 tons. Spiral bevel wheel and pinion of heavy construction with fully floating axle shafts. Ratio 6.83 to 1.

FRONT AXLE Axle bed is T section alloy-steel stamping 3½ in. deep by 25 in wide carrying stub axles 2½ in. dia. of highest grade steel stampings with hardened swivel pins

STEERING (Power Assisted) Drag Link mounted power steer cylinder complete with reactive Power Steer-Power Steer Pump engine driven. ing Valve.

BRAKES Air pressure hydraulic actuation. Girling wedge-type on all wheels. Front brake shoes 15½ in dia. X 5in. wide. Rear brake shoes 15½ in. X 6in. wide. Total lining area 660 sq. in. Handbrake is of Power Assisted Air/Hydraulic Type with Failsafe System to meet Department of Environment Regulations. All brake are independently adjustable, the system provides maximum braking efficiency with minimum pedal pressure. Air pressure obtained by a single cylinder compressor fitted to engine.

CHASSIS FRAME AND ENGINE MOUNTING Manganese steel frame pressings 8 1/5 in. deep X 1/4 in. thick X 3in. flanges. Frame and all cross-members of all bolted construction. Frame cross-members are top-hat or tubular section having a high torsional value. Gear box is removable without disturbing the gear box rear Front tubular cross-member incorporates engine front mounting brackets which accommodate rubber sandwich mountings. Rear engine mountings incorporate conical rubber torque and vibration dampers in brackets, attached directly to main frame. The chassis frame is flitched 2½in. X 3/2in. top and bottom.

ROAD SPRINGS semi-elliptic front and rear. Front and rear springs 48in. centres X 3in. wide. All spring leaves are shot peened on tension side. Spring deflection in conjunction with rubber spring aids to ensure a comfortable ride under all loading conditions and reduced roll to an absolute minimum. Springs mounted on hardened pins fitted with lubrication nipples.

FUEL TANK 16 Imperial gallons capacity attached to chassis frame on the offside

WHEELS AND TYRES Pressed steel disc three-piece type wheels. Rim size 7.0 \times 20. Rim offset 6in. 8 wheel studs $\frac{7}{8}$ in. dia. Tyres $9.00 \times 20 \times 14$ ply. Spare wheel carrier fitted to the nearside of chassis.

ELECTRICAL SYSTEM 12-volt negative earth voltage control system. Axial type starter motor. Alternator 25 amp. max. continuous output with low cut-in speed. Two 6-volt batteries 120 amp./hr. capacity, the batteries being located on the offside of the chassis and flashing direction indicators front and rear, twin dipping headlamps built into panel. Two side lamps and flashing direction indicators front and rear, twin Two flat-beam stop/tail lamps and reflectors. Electric horn and twin windscreen wipers.

INSTRUMENT PANEL Built into facia board and removable for adjustment and maintenance. Speedometer with milage recorder, oil-pressure gauge, air-pressure gauge, ammeter, water temperature gauge, switches for lights and starter. Horn, flashing indicator switch and dipper on separate arm secured to steering column.

FRONT BUMPER A heavy-duty front bumper is securely bolted to the chassis and so arranged that it can be removed.

TOWING EYES Two brackets are provided on front of chassis, and bolted direct to and in line with chassis

CHASSIS LUBRICATION by grouped nipple system and oil-gun nipples. A.C.L. or Airdromic automatic chassis lubrication also available.

Specification

The TSR chassis offers comfortable accommodation for crew members in a flexibly mounted composite fibre-glass and coach-built cab with steel non-slip floor.

Seating accommodation: Four door cab model; driver and six loaders. Two door model: driver and four loaders.

All models fitted with interior light twin windscreen wipers and washers, heater and demister; twin rear view mirrors is standard equipment.

Options include hand washing equipment and cab salvage rack.

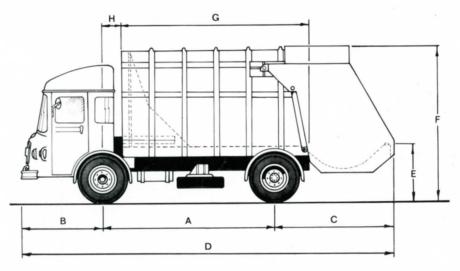


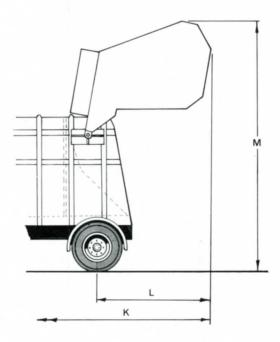
4 Door model



2 Door, model

General Data (2 door model)





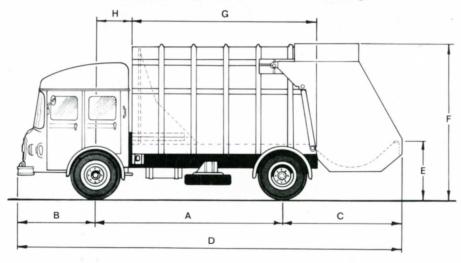
			ft.	in.	mm	
	Α	Wheelbase	11	9	3581	
	В	Front overhang	5	3	1600	
	С	Rear overhang	8	2	2489	
	D	Overall length	25	2	7670	
	E	Rave height	4	0	1219	
	F	Overall height	10	10	3302	
	G	Body length	12	8	3860	
	Н	Body front to				
		front axle	1	4	0465	
	K	Overall length	25	2	7670	
	L	Rear overhang	8	2	2489	
	M	Overall height	17	0	5181	
	Ove	rall width	7	10	2387	
	Bod	y inside width	6	10	2082	
	Bod	y inside height	6	8	2032	
Ground clearance						
		nder axle	0	9	0228	
		ning circle to uter tyre	46	0	14,020	
		ept turning rcle	49	0	14,935	
Body air						
	S	pace 15 cu. y	ds.	11.4	t cu. m	

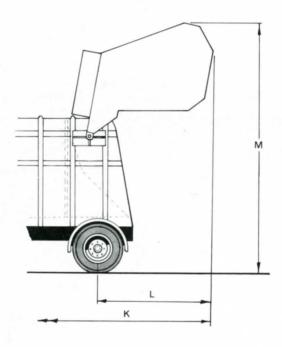


TSR model with

Power Assisted Steering for greater Efficiency and ease of Operation

General Data (4 door model)





		ft	. in	. mm			
Α	Wheel base	12	10	3911			
В	Front overhang	5	3	1600			
C	Rear overhang	8	2	2489			
D	Overall length	26	3	8001			
E	Rave height	4	0	1219			
F	Overall height	10	10	3302			
G	Body length	12	8	3860			
Н	Body front to						
	front axle	2	6	0762			
K	Overall length	26	3	8001			
L	Rear overhang	8	2	2489			
M	Overall height	17	0	5181			
Ove	2387						
Body inside width 6 10 208							
Body inside height 6 8 2032							
Ground clearance							
under axle 0 9 0228							
Turning circle to							
outer tyre 50 0 15,240							
Swept turning							
Circle 53 0 16,159							
Body air							
space 15 cu. ft. 11.4 cu. m							

Plated loads-all models

	Tons	Kg
Front axle	4.25	4318
Rear Axle	10	10,160

Gross vehicle Tons Kg
weight 14.00 14,229
Unladen weight 8.00 8,128

SHELVOKE AND DREWRY LIMITED

ICKNIELD WAY. LETCHWORTH. HERTS. Telephone: Letchworth 2234