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**GENERAL SPECIFICATION DATA****ENGINE – 2.6 LITRE PETROL**

Type	6 cylinder
Bore	77,8 mm (3.063 in)
Stroke	92.1 mm (3.625 in)
Capacity	2625 cm <sup>3</sup> (160.3 in <sup>3</sup> )
Valve operation	Inlet – overhead by push rod Exhaust – side by cam follower

**Crankshaft**

Main journal diameter	66,64 mm to 66,66 mm (2.624 in to 2.6245 in)
Minimum regrind diameter	65,63 mm (2.584 in)
Crankpin journal diameter	47,62 mm to 47,64 mm (1.875 in to 1.87575 in)
Minimum regrind diameter	46,60 (1.835 in)
Crankshaft end thrust	Taken on thrust washers at rear main bearing
Crankshaft end float	0,05 mm to 0,15 mm (0.002 in to 0.006 in)

**Main bearings**

Number and type	7 halved shells
Material	Steel shell, copper-lead lined, tin plated
Diametrical clearance	0,015 mm to 0,050 mm (0.0006 in to 0.002 in)
Undersizes	0,25 mm, 0,50 mm, 0,76 mm, 1,01 mm (0.010 in, 0.020 in, 0.030 in, 0.040 in)

**Connecting rods**

Type	Horizontally split big end, plain small end
Length between centres	206,463 mm (8.1285 in.)

**Big end bearings**

Type and material	Steel shell, copper-lead, tin plated
Diametrical clearance	0,0114 mm to 0,043 mm (0.00045 in to 0.0017 in)
End float on crankpin	0,15 mm to 0,38 mm (0.006 in to 0.015 in)
Undersizes	0,25 mm, 0,50 mm, 0,76 mm, 1,01 mm (0.010 in, 0.020 in, 0.030 in, 0.040 in)

**Gudgeon pins**

Type	Fully floating
Fit in piston	Push fit by hand
Clearance in connecting rod	Zero to 0,0241 mm (0.00095 in)

**Pistons**

Type	Aluminium alloy, ridged top
Clearance in bore, measured at bottom of skirt at right angles to gudgeon pin. Standard size and oversize pistons.	0,048 mm to 0,060 mm (0.0019 in to 0.0024 in)



**ENGINE — 2.6 LITRE PETROL****Piston rings**

Compression	2
Gap in bore	0,38 mm to 0,50 mm (0.015 in to 0.020 in)
Clearance in groove	0,046 mm to 0,097 mm (0.0018 in to 0.0038 in)
Oil control	1
Gap in bore	0,38 mm to 0,80 mm (0.015 in to 0.033 in)
Clearance in groove	0,05 mm to 0,10 mm (0.002 in to 0.004 in)

**Camshaft**

Location	Left hand side of engine
End float	0,11 mm to 0,16 mm (0.0045 in to 0.0065 in)
Number of bearings	6
Material	Split 'Mazak' castings

**Valves**

Length	
Inlet	96,57 mm to 96,77 mm (3.802 in to 3.810 in)
Exhaust	116,07 mm to 116,28 mm (4.570 in to 4.578 in)
Seat angle	
Inlet	30°
Exhaust	45°
Head diameter	
Inlet	45,54 mm to 45,64 mm (1,793 in. to 1.797 in.)
Exhaust	32,02 mm to 32.13 mm (1.261 in. to 1,265 in.)
Stem diameter	
Inlet	8,68 mm to 8,69 mm (0.342 in to 0.3425 in)
Exhaust	8,66 mm to 8,67 mm (0.341 in to 0.3415 in)
Stem to guide clearance	
Inlet	0,033 mm to 0,048 mm (0.0013 in to 0.0019 in)
Exhaust	0,058 mm to 0,073 mm (0.0023 in to 0.0029 in)
Valve lift	
Inlet	9,49 mm (0.374 in)
Exhaust	10,23 mm (0.403 in)

**Valve springs**

Type	Duplex. Interference coil
Inlet	
Inner	
Length, free	43,26 mm (1.703 in)
Length under 9,7 kg (21.5 lb) load	36,49 mm (1.437 in)
Outer	
Length, free	49,80 mm (1.960 in)
Length under 31,5 kg (69.5 lb) load	41,27 mm (1.625 in)
Exhaust	
Inner	
Length, free	43,26 mm (1.703 in)
Length under 9,1 kg (16.4 lb.) load	38,10 mm (1.500 in)
Outer	
Length, free	47,26 mm (1,861 in)
Length under 18,9 kg (41.8 lb) load	41,27 mm (1.625 in)



**GENERAL SPECIFICATION DATA****ENGINE - 2.6 LITRE PETROL****Valve timing**

Inlet opens	12° BTDC
Inlet closes	46° ABDC
Inlet peak	107° ATDC
Exhaust opens	47° BBDC
Exhaust closes	17° ATDC
Exhaust peak	75° ABDC

**Lubrication**

System	Wet sump, pressure fed
System pressure, engine warm at 2000 rev/min	2,81 to 3,51 kgf/cm <sup>2</sup> (40 to 50 lbf in <sup>2</sup> )

**Oil pump**

Type	Spur gear
Drive	Splined shaft from camshaft skew gear
End float of gears	
Steel gear	0,05 mm to 0,12 mm (0.002 in to 0.005 in)
Aluminium gear	0,07 mm to 0,15 mm (0.003 in to 0.006 in)
Radial clearance of gears	0,02 mm to 0,102 mm (0.001 in to 0.004 in)
Backlash of gears	0,20 mm to 0,28 mm (0.008 in to 0.012 in)

**Oil pressure relief valve**

Type	non-adjustable
Relief valve spring	
Free length	87,0 mm (3.425 in)
Compressed length at 7,9 kg (17.5 lb) load	50,55 (1.990 in)

## 04 — GENERAL SPECIFICATION DATA

**Clutch**

Make	Borg and Beck
Type	Diaphragm spring
Drive plate diameter	241,3 mm (9.500 in)
Damper spring colour	Dark green
Facing material	Raybestos WR7

**TRANSMISSION****Main gearbox**

Type	Single helical constant mesh with synchro-mesh on all forward speeds
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Ratios: Top	Direct
Third	1.50:1
Second	2.22:1
First	3.68:1
Reverse	4.02:1

**Transfer gearbox**

Type	Two speed reduction on main gearbox output
Front wheel drive	Two/four wheel drive control on transfer, box output

Ratios:	High transfer	Low transfer
Helical and spur gear transfer gearbox	1.15:1	2.35:1
Overall ratios (final drive) with helical and spur gear transfer gearbox.		
Top	5.4:1	11.1:1
Third	8.05:1	16.5:1
Second	12.0:1	24.6:1
First	19.88:1	40.7:1
Reverse	21.6:1	44.3:1

**POWER TAKE-OFF**

Chain driven from rear of transfer case, with torque limiting clutch

**WINCH**

Bamford drum type, front mounted 6,000 lb capacity

**REAR AXLE**

Type	Spiral bevel	floating shafts
Ratio	4.7:1	

**FRONT AXLE**

Differential	Spiral bevel
Front wheel drive	Enclosed universal joints
Ratio	4.7:1



**GENERAL SPECIFICATION DATA****PROPELLER SHAFTS**

Type	Hardy-Spicer, needle bearing
Diameter of tubular shaft	50,8 mm (2.000 in)
Overall length (face to face in midway position)	
Front shaft	693,7 mm (27.312 in)
Rear shaft	940,6 mm (37.625 in)

**COOLING SYSTEM**

Type	Pressurized spill return system with thermostat control, pump and fan assisted
Thermostat	72°C (162°F)
Pressure cap	0,6 kgf cm <sup>2</sup> (9 lbf in <sup>2</sup> )
Type of pump	Centrifugal

**FUEL SYSTEM**

Carburettor	see 'ENGINE TUNING DATA'
Air cleaner	Oil bath with built in centrifugal pre-cleaner
Fuel pump	
Type	Electrical
Pressure range	0,15 to 0,26 kgf cm <sup>2</sup> (2.25 to 3.75 lbf in <sup>2</sup> )



**SUSPENSION**

<b>Type</b>	<b>Rigid axles, semi-elliptic springs</b>
<b>Springs</b>	<b>109-Petrol</b>
<b>Front (Driver)</b>	
Length	920,7 mm (36.25 in)
Width	63,5 mm (2.5 in)
No. of leaves	9
Thickness, all	4,77 mm (0.1875 in)
Rate	328 kg cm (285 lb in)
Free camber	158,75 mm (6.25 in)
<b>Front (Passenger)</b>	
Length	920,7 mm (36.25 in)
Width	63,5 mm (2.5 in)
No. of leaves	9
Thickness, all	4,77 (0.1875 in)
Rate	328 kg cm (285 lb in)
Free camber	146,0 mm (5.75 in)
<b>Rear (Driver)</b>	
Length	1219 mm (48 in)
Width	63,5 mm (2.5 in)
No. of leaves	9
Thickness, all	7,15 mm (0.281 in)
Rate	477 kg cm (415 lb in)
Free camber	157,2 mm (6.187 in)
<b>Rear (Passenger)</b>	
Length	1219 mm (48 in)
Width	63,5 mm (2.5 in)
No. of leaves	9
Thickness, all	7,15 mm (0.281 in)
Rate	477 kg cm (415 lb in)
Free camber	157,2 mm (6.187 in)



**GENERAL SPECIFICATION DATA**

**Hydraulic dampers**

Piston diameter

Telescopic: non-adjustable  
34,6 mm (1.375 in)

**STEERING**

Type

Recirculating ball

Ratio: Straight ahead

15.6:1

Full lock

23.8:1

Turning circle

14.3 m

Front wheel toe-in

1,2 mm to 2,4 mm (0.046 in to 0.093 in)

Camber angle

1 1/2°

Castor angle

3°

Swivel pin inclination

7°

**BRAKES**

System

Single line with servo

**Front**

Drum diameter

279,4 mm (11 in)

Reclamation limit

0,75 mm (0.030 in) oversize

Wheel cylinder bore diameter

27,57 mm (1.125 in) twin leading shoe

Lining dimensions

264,66 mm x 57,15 mm x 4,74 mm (10.42 in x 2.25 in x 0.187 in)

Lining material

Mintex M22

**Rear**

Drum diameter

279,4 mm (11 in)

Reclamation limit

0,75 mm (0.030 in) oversize

Wheel cylinder bore diameter

31,75 mm (1.250 in) single leading shoe

Lining dimensions

264,66 mm x 57,15 mm x 4,74 mm (10.42 in x 2.25 in x 0.187 in)

Lining material

Mintex M22

Total swept area, foot brakes

2000,0 cm<sup>2</sup> (310.0 in<sup>2</sup>)





**Handbrake**

Drum diameter 228,6 mm (9.000 ins)  
 Lining dimensions 209,55 mm x 44,45 mm x 4,74 mm (8.250 in x 1.750 in x 0.187 in)  
 Master cylinder bore diameter 25,4 mm (1.000 in)

**WHEELS**

Size 5.50F x 16

**TYRES**

Type/Size 6 ply CCND/7.50-16

**Tyre pressures**

		Highway		Cross country		Mud and sand	
		Front	Rear	Front	Rear	Front	Rear
7.50 — 16	kPa	165	320	125	210	95	150
	lb/in <sup>2</sup>	24	46	18	30	14	22
	kg/cm <sup>2</sup>	1.7	2.25	1.25	2.1	1.0	1.55



**ELECTRICAL EQUIPMENT**

System 12 volt, negative earth

**Battery**

Make/type Lucas 263D  
Capacity 68 Amp Hr.

**Alternator**

Type Lucas 15 ACR-2D  
Nominal output 28 amps at 6000 Alternator rev/min.  
Field resistance 3.5 ohms  $\pm$  5% at 20°C (68°F)  
Brush spring pressure 142 to 198 g (5 to 7 oz)  
Brush minimum length 5,0 mm (0,2 in) protruding beyond the brush box

**Starter Motor**

Make/type Lucas 2M100  
Brush spring tension 10 N (36 ozf.)  
Brush minimum length 9,5 mm (0.375 in)

**Wiper Motor**

Make/type Lucas 14W single speed  
Armature end float 0,1 to 0,2 mm (0.004 in to 0.008 in)  
Brush minimum length 4,8 mm (0.190 in)  
Brush spring tension 140 to 200 g (5 to 7 oz)  
Resistance of armature winding at 16°C  
16°C (60°F) measured between adjacent  
commutator segments 0.23 to 0.35 ohms  
Light running, rack disconnected 2.0 amps  
Current at 13.5V 60 to 70 rev/min  
Speed, 60 seconds from cold



**GENERAL DIMENSIONS**

Dimensions and Mass	Metric	British
Overall length .....	4670 mm	184.25 in
Overall width .....	1676 mm	66 in
Overall unladen height, hood up .....	2,080	81.5 in
Overall unladen height, hood down, screen up .....	—	—
Overall unladen height, hood down, screen down .....	1510 mm	59.5 in
Overall unladen height, with cab .....	2060 mm	81 in
Wheelbase .....	2769 mm	109 in
Track .....	1330 mm	52.5 in
Turning circle .....	14,3 m	47 ft
Unladen ground clearance under differentials, 7.50 x 16 tyres .....	222 mm	8.25 in
Internal body dimensions:		
Length (between cappings) .....	1850 mm	72.75 in
Width (between cappings) .....	1440 mm	56.875 in
Height of body sides .....	495 mm	19.5 in
Height of wheel arch .....	229 mm	9 in
Width of wheel arch (to body side) .....	349 mm	13.75 in
Width of floor (between wheel arches) .....	921 mm	36.25 in
Height, floor to roof (maximum) .....	1220 mm	48 in
Pintle hook height .....	700 mm	27.5 in

**MASS**

Dimensions and Mass	Metric	British
Maximum approved payload, normal roads .....		Driver, two passengers and: 908 kg      2,000 lb
Maximum approved payload, cross-country .....		Driver, two passengers and: 816 kg      1,800 lb
Maximum drawbar pull, dependent upon surface conditions .....	1,600 kg	3,500 lb
Weight running, with water, oil, 22.7 litres (5 gals.) fuel .....	1,740 kg	3,828 lb
With winch .....	80 kg	176 lb



