TECHNICAL DATA

Dimensions are in inches unless otherwise stated

PETROL ENGINES

		FEIN	OL EN		2½ litre	2.6 litre
Compression ratio					90.47 x 88.8 mm 7:1 or 8:1	77.8 x 92.075 mm 7:1 or 7.8:1
Crankshaft: Main journal diameter					2.4995 to 2.50	2.6240 to 2.6245
Main bearing clearance					.001 to .0025	.0006 to .002
Main journal minimum re End float	grina ai	ameter	• •		2.460 .002 to .006	2.584 .002 to .006
Crankpin diameter					Early models 2.126 Late models 2.312	
Crankpin minimum regrin	d diame	eter		. x		1.835 not be ground)
Connecting rods:						
Bearing fit on crankpin End float at big-end						.001 to .002 .006 to .015
Gudgeon pin bush, fit in	rod, inte	erferenc	е			.001 to .003
Gudgeon pin bush intern Gudgeon pin fit in bush,					.0003 to .0005	.8755—.0005 .0002 to .0006
Pistons:						
Type Clearance top of skirt					Light alloy tin plated .003 to .004	a, both engines
Clearance bottom of skirt	: Series	II and I			.003 to .004 .0019 to .0023	.002 to .0025
Rings			• •	• •	.0023 to .0027 Two compression, o	
Rings	• •	• •	• •	• •	engines	The on Control, Both
Compression rings:					Tanar narinhani hat	th angines
Type					Taper periphery, bot .015 to .020 both er	n engines ngines
Gap Clearance in groove	• •	• •			.0018 to .0038 both engines	
Oil control ring: Type Gap					Slotted, square edge	Duaflex 61
Gap					015 + 0.00	.015 to .033
Clearance in groove Fit of gudgeon pin in p					.0015 to .0035 0 to .0002	.002 to .004 Push fit at 60°F
Camshaft:	nston, n	nterrerer	1100			
			•.		1.842 to .001 .0025 to .0055	.999 .0045 to .0065
Clearance in bearings					.0023 to .0033	.001 to .0025
Cam lift, inlet Cam lift, exhaust					.257 .257	.374
Tappet clearance:	• •	• •	• •		.257	.403
Inlet Exhaust						.006 hot .010 hot or cold
Valves:					.010 flot of cold	
Seat angle inlet					30 deg.	30 deg.
Seat angle exhaust Stem diameter inlet					45 deg. .3112	45 deg. .3425
Stem diameter exhaust					.3415	.3425
Valve springs: Inner inlet:						
Free length					1.68	1.703
Length under 17.7 lb l Length under 21.5 lb l	oad				1.462	1.437
Length under 21.5 ib i	uau		• •	• •		1.437
Outer inlet:						
Free length Length under 46 lb lo					1.822 1.587	1.960
Length under 69.5 lb	load					1.625
Exhaust valve springs on $2\frac{1}{4}$ litre models are the same as the inlet Inner exhaust:						
Free length						1.703
Length under 16.4 lb	load					1.500
Outer exhaust: Free length						1.861
Length under 41.8 lb						1.625
Valve timing: Inlet opens					6 deg. BTDC	12 deg. BTDC
Inlet closes					52 deg. ABDC	46 deg. ABDC
Exhaust opens Exhaust closes					34 deg. BBDC	47 deg. BBDC
Oil pump:					24 deg. ATDC	17 deg. ATDC
Type		(0) •:			Skew gear	Spur gear
Gear end float: Steel gear					.002 to .005	.002 to .005
Aluminium gear Radial clearance of gears					.003 to .006	.003 to .006
Backlash	S				.001 to .004 .006 to .012	.001 to .004 .006 to .012
Backlash Oil pressure, engine war	m, 2000	rev/mi	n		45 to 65 lb/sq in	40 to 50 lb/sq in
						140