

ENGINE (AS R11/5)

BORE X STROKE 78x78
CCM 746
COMP. RATIO 5.7:1 (5.1-5.2:1 for 74 OCTANE FUEL)
MAX RPM 4300
H.P. (DIN) 20
ENGINE OIL CAPACITY 2.5 LITRES SUMMER SAE 50 WINTER SAE 30
HEPOLITE 7495 PISTONS

CARBS

FISCHER AMAL 6/406/407
MAIN JET 110
SLIDE 6/4
NEEDLE 2.67 2ND GROOVE FROM TOP

GEARBOX

(AS R17 & R11/4)

RATIOS 1ST 3.18
2ND 2.06
3RD 1.42
4TH 1.09

OIL CAPACITY 0.75 LITRES SUMMER SAE 50 WINTER SAE 30

GEAR DRIVE

(AS R17 & R11/2)

RATIO 4.07:1 SOLO GIVES 4.44:1 TOP GEAR
CROWN WHEEL 57 TEETH
PINION 14 TEETH

RATIO 4.75:1 SIDECAR GIVES 5.18:1 TOP GEAR
CROWN WHEEL 57 TEETH
PINION 12 TEETH

ANOTHER SOURCE GIVES MOBIL OIL EPW1
OIL CAPACITY 0.4 LITRES SUMMER SAE 50 WINTER SAE 30

BRAKES

DRUM DIAMETER 200 mm
LINING DIMENSIONS 170 mm x 25 mm x 4 mm

WHEELS

- INTERCHANGEABLE

TYRES FRONT 3.50x19 PRESSURE 1.4 ATMOS (1.75 SIDECAR)
(RIM 3x19)
REAR 3.50x19 PRESSURE 1.9 ATMOS (2.6 SIDECAR)
(RIM 3x19)

SUSPENSION

(AS R17)

FRONT 2x 0.125 LITRES SHOCK ABSORBER OIL
ANOTHER SOURCE GIVES MOBIL OIL AT

ELECTRICAL

45 WATT BOSCH DYNAMO B 245 RS 108
IGNITION - MAGNETO
PLUG GAP 0.6-0.7 mm.
SPARKING PLUGS 18 mm BOSCH M 175 TI
14 mm BOSCH W 175 TI

MAIN BEARINGS

HOUSING DIAMETER	FRONT 77mm	-0.013mm -0.035mm
	REAR 77mm	-0.013mm -0.035mm
BEARING DIAMETER	FRONT 77mm	+0 -0.02mm
	REAR 77mm	+0 -0.02mm
INTERFERENCE	FRONT 0.01-0.03mm	
	REAR 0.01-0.03mm	
SIDE CLEARANCE BEARING TO FLYWHEEL 1.0mm MAX.		
SIDE CLEARANCE CRANKSHAFT WETS OR OIL FINGER RING & HOUSING		
	FRONT 0.6-0.8mm	
	REAR 0.8-1.0mm	

CAMSHAFT

BORE DIAMETER IN HOUSING OR COVER		
FRONT 28mm		-0.04mm -0.075mm
	REAR 22mm	-0.04mm -0.075mm
BUSH OR BEARING BODY OUTER DIAMETER		
FRONT 28mm		+0 -0.15mm
	REAR 22mm	+0 -0.15mm
INTERFERENCE	FRONT 0.02-0.07mm	
	REAR 0.02-0.07mm	
RUNNING CLEARANCE 0.03-0.08mm		
SIDE CLEARANCE 0.05-0.1mm		
TAPPET DIAMETRAL CLEARANCE 0.04-0.07mm		

<u>TIMING</u> WITH 2mm VALVE (TAPPET) CLEARANCE		
INLET OPENS 17° AFTER TDC		ANOTHER SOURCE GIVES WITH 0.1mm TAPPET CLEARANCE
	CLOSES 23° AFTER BDC	20° OR 13mm
EXHAUST OPENS 23° BEFORE BDC		60° OR 16mm
	CLOSES 17° BEFORE TDC	60° OR 16mm
IGNITION 12mm OR 42° BEFORE TDC.		20° OR 13mm

LUBRICATION

TEST PRESSURE @ 250 RPM	1.5 - 2 ATMOS. MINIMUM.
OIL PUMP SIDE CLEARANCE	0.05-0.1mm

GEARBOX REPAIR DATA

MAINSHAFT	SIDE CLEARANCE 0.1-0.5mm
LAYSHAFT	SIDE CLEARANCE 0-0.3mm
SHAFTS END FLOAT	0.1mm

MAIN DIMENSIONS

WHEEL BASE 1380 mm
GROUND CLEAR. 120 mm
LENGTH 2100 mm
WIDTH 900 mm
HEIGHT 940 mm

WEIGHT

UNLADEN 188 kg. ANOTHER SOURCE GIVES 162 kg
MAX. LADEN 300 kg.

PERFORMANCE

SOLO CONTINUOUS 150 km/hr.
SOLO MAX. 120 km/hr.
SIDE CAR CONTINUOUS 80 km/hr.
SIDE CAR MAX. 95 km/hr.
FUEL CAPACITY 14 LITRES TOTAL 1.5 LITRES RESERVE
OIL CONSUMPTION 0.1 LITRES / 100 km.
H.P. (DIN) / LITRE 26.6.

TUGGING REPAIR DATA

PISTONS

CLEARANCE 0.06-0.08 mm
GROOVE CLEARANCES TOP 0.05-0.07 mm
MIDDLE 0.04-0.06 mm
BOTTOM 0.03-0.05 mm
RING GAP 0.2-0.35 mm COMP. RINGS?
0.25-0.4 mm SCRAPER RINGS?

VALVES

ROCKER DIAMETRAL CLEARANCE 0.03-0.05 mm
RUNNING DIAMETRAL CLEARANCE 0.05-0.10 mm
SEAT OUTER DIAM. 38 mm
TAPPET CLEARANCE COLD INLET 0.05-0.1 mm
EXHAUST 0.05-0.1 mm
VALVE SPRING LENGTH OUTER 42 mm
INNER 38 mm

CRANKSHAFT

MAX. RUN OUT 0.1 mm
MAX. JOURNAL OVALITY 0.03 mm
MAX. END FLOAT 0.4-1.0 mm

BIG END

DIAMETRAL CLEARANCE NONE
SIDE CLEARANCE 0.05-0.1 mm
ROLLER CAGE SIDE CLEARANCE 0.1-0.15 mm

SMALL END

GUDGEON PIN RUNNING CLEARANCE 0.01-0.03 mm

GEARS

1ST. RUNNING CLEARANCE	0.03-0.1 mm	
SIDE CLEARANCE	0.1-0.3 mm	
2ND. RUNNING CLEARANCE	0.03-0.1 mm	} RUN WITH SAME CLEARANCES
SIDE CLEARANCE	0.1-0.3 mm	
3RD. RUNNING CLEARANCE	0.03-0.1 mm	
SIDE CLEARANCE	0.1-0.3 mm	
4TH. RUNNING CLEARANCE	0.03-0.1 mm	
SIDE CLEARANCE	0.1-0.3 mm	

KICK STARTER SHAFT

RUNNING CLEARANCE 0.02-0.07 mm
SIDE CLEARANCE 0.1-0.5 mm

KICK STARTER IDLER WHEEL

RUNNING CLEARANCE 0.03-0.1 mm
SIDE CLEARANCE 0.1-0.3 mm

SELECTOR FORK

RUNNING CLEARANCE 0.05-0.12 mm

SUSPENSION REPAIR DATAFRONT FORK

STEERING STEM BEARINGS 20 OF 6.5 mm DIA.

BUSH RUNNING CLEARANCE TOP 0.025-0.1 mm

BOTTOM 0.025-0.075 mm

SPRING WIRE DIAMETER SOLO 5.5 mm

SIDECAR 6 mm

REAR WHEEL DRIVE REPAIR DATA

CROWN WHEEL FLOAT UPWARDS 0.1 mm MAX.

SIDEWAYS 0.05 mm MAX.

TOOTH BACKLASH 0.1-0.3 mm

PROP SHAFT END FLOAT 0.5 mm

AXIAL CLEARANCE OF PROP SHAFT 1-3 mm?

TITLE USEFUL INFORMATION

BSA DI BANTAM SILENCERS LOOK OK.

BAS BANTAM BATTERY IS OF CORRECT DIMENSIONS

NSU CAR HEADLAMP RIM & REFLECTOR SUITABLE?

GREEVES BRAKE LININGS SUITABLE?

1947-53 490 SU STD. NORTON PISTONS ARE +.040" & ONLY NEED GUDGEON PIN BOSSES TO BE BUSHED FROM 7/8" DIA TO 18 mm DIA.

1954-58 1200 VW BEETLE PISTONS SUIT BUT STD. IS -1 mm THEREFORE USE +1 mm (+.040") UPWARDS

HONDA CX PISTONS FIT

KNECHT DRGM OIL FILTER FITS

BSA B40 PISTONS CAN BE USED (79 mm STD)

LISTER H8 DIESEL VALVES ARE NEAR ENOUGH

AUDI 100 GL INLET VALVES ARE SUITABLE

TIMING CHAIN IS A CAR SIZE

R80 CENTRE STAND SPRING FITS