

(SOURCE OF INFORMATION - B.M.W.)

352

ENGINE (AS R16/S)

BORE x STROKE 83 x 68

C.C.M. 736

COMP. RATIO 6.7 (6.5 FOR 74 OCTANE FUEL)

MAX. RPM 5000

H.P. (DIN) 33 @ 4500 RPM

ENGINE OIL CAPACITY 2.5 LITRES SUMMER SAE 50 WINTER SAE 30

CARBS

FISCHER AMAL 76/424 1" (25.4mm)

MAIN JET 140

SLIDE 6/4

NEEDLE 2.67 2ND GROOVE FROM TOP (ANOTHER SOURCE GIVES 3RD)

GEARBOX (AS R12)

RATIOS 1ST. 3.18

2ND 2.06

3RD 1.42

4TH 1.09

OIL CAPACITY 0.75 LITRES SUMMER SAE 50 WINTER SAE 30

REAR DRIVE (AS R12)

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

OIL CAPACITY 0.4 LITRES SUMMER SAE 50 WINTER SAE 30
ANOTHER SOURCE GIVES MOBIL OIL EPW 1BRAKES DRUM DIAMETER 200 mm

LIVING DIMENSIONS 170 mm x 25 mm x 4 mm

WHEELSTYRES FRONT 3.50 x 19 PRESSURE 1.4 ATMOS. (1.75 SIDECAR)
(RIM 3 x 19)REAR 3.50 x 19 PRESSURE 1.9 ATMOS. (2.6 SIDECAR)
(RIM 3 x 19)SUSPENSION (AS R12)

FRONT 2 x 0.125 LITRES SHOCK ABSORBER OIL

ANOTHER SOURCE GIVES MOBIL OIL AF

ELECTRICAL

DYNAMO BOSCH B245 RS108

IGNITION BATTERY & COIL

PLUGS M175 T1 (BOSCH)

PLUG GAP 0.6 - 0.7 mm

MAIN DIMENSIONS

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

WEIGHT

UNLADEN 188 kg.
MAX. LADEN 300 kg.

PERFORMANCE

SOLO CONTINUOUS 115 km/hr.
SOLO MAX. 140 km/hr.
SIDE CAR CONTINUOUS 95 km/hr.
SIDE CAR MAX. 120 km/hr.
FUEL CAPACITY 14 LITRES TOTAL 1.5 LITRES RESERVE
FUEL CONSUMPTION (FROM ANOTHER SOURCE) 4 LITRES/100 km @ 75 km/hr
OIL CONSUMPTION 0.1 LITRES/100 km. 4.5 LITRES/100 km @ 90 km/hr
HP/LITRE (DIN) 44 } OR IS IT 7.5 L/100 km ?
(IT'S A LOUSY COPY!)

ENGINE REPAIR DATA

PISTONS CLEARANCE 0.06-0.07 mm

GROOVE CLEARANCES TOP 0.05-0.07 mm
MIDDLE 0.04-0.06 mm

RING GAP BOTTOM 0.03-0.05 mm
0.20-0.35 mm COMP. RINGS?
0.25-0.40 mm SCRAPER RING?

VALVES ~~TAPPET~~ ^{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 0.15 mm
EXHAUST 0.15 mm

VALVE SPRING LENGTH OUTER 37 mm
INNER 35 mm

CRANKSHAFT MAX. RUNOUT 0.1 mm
MAX. JOURNAL OVALITY 0.03 mm
MAX. END FLOAT 0.4-1.0 mm

BIG END DIAMETRAL CLEARANCE NONE
SIDE CLEARANCE 0.05-0.10 mm
ROLLER CAGE SIDE CLEARANCE 0.1-0.15 mm

SMALL END GUDGEON PIN RUNNING CLEARANCE 0.01-0.03 mm

MAIN BEARINGS

HOUSING DIAMETER FRONT 77mm -0.013 mm
 REAR 77mm -0.013 mm
 BEARING DIAMETER FRONT 77mm -0.035 mm
 REAR 77mm -0.02 mm
 INTERFERENCE FRONT 0.01-0.03 mm
 REAR 0.01-0.03 mm
 SIDE CLEARANCE BEARING TO FL/WHEEL 1.0 mm MINIMUM
 SIDE CLEARANCE CRANKSHAFT WITH OR OIL FLINGER RING
 & HOUSING. FRONT 0.6-0.8 mm
 REAR 0.8-1.0 mm

CAMSHAFT

BORE DIAMETER IN HOUSING OR COVER
 FRONT 28mm -0.040 mm
 REAR 22 mm -0.075 mm
 BUSH OR BEARING BODY OUTER DIAMETER
 FRONT 28mm $+0$
 REAR 22 mm $+0$
 INTERFERENCE FRONT 0.02-0.07 mm
 REAR 0.02-0.07 mm
 RUNNING CLEARANCE 0.03-0.08 mm
 SIDE CLEARANCE 0.05-0.10 mm
 TAPPET DIAMETRAL CLEARANCE 0.04-0.07 mm

TIMING

WITH 2mm VALVE (TAPPET) CLEARANCE.

INLET OPENS 8° AFTER TDC
 CLOSES 32° AFTER BDC
 EXHAUST OPENS 32° BEFORE BDC
 CLOSES 8° BEFORE TDC.
 IGNITION 12-14 mm BEFORE TDC
 OR $42-43^{\circ}$ BEFORE TDC.

ANOTHER SOURCE
 GIVES

INLET OPENS 40° AFTER TDC
 CLOSES 50° AFTER BDC
 EX. OPENS 80° BEFORE BDC
 CLOSES 40° BEFORE TDC
 WITH 0.1 mm TAPPET
 CLEARANCE.

LUBRICATION

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

GEARBOX REPAIR DATA

~~DRIVE SHAFT~~ ~~RUNNING CLEARANCE~~

MAINSHAFT ~~SLIP~~ CLEARANCE 0.1-0.5 mm
 LAYSHAFT SIDE CLEARANCE 0-0.3 mm
 SHAFT END FLOATS MAXIMUM 0.1 mm

GEARS

1ST	RUNNING CLEARANCE	0.03 - 0.1 mm	} RUN WITH SAME CLEARANCES
	SIDE CLEARANCE	0.1 - 0.3 mm	
2ND	RUNNING CLEARANCE	0.03 - 0.1 mm	
	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 DATA

FRONT FORK

STEERING HEAD BEARINGS 20 OH 6.5 mm DIA

BUSH RUNNING CLEARANCE TOP 0.025 - 0.1 mm

SPRING WIRE DIAMETER BOTTOM 0.025 - 0.075 mm
SOLC 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 AT PROP. SHAFT 1 - 3 mm ?

OTHER USEFUL INFORMATION

BSA DI BANTAM SILENCERS LOOK OK

BSA BANTAM BATTERY IS OF CORRECT DIMENSIONS

NSU CAR HEADLAMP RIM & REFLECTOR SUITABLE ?

GREEVES BRAKE LININGS SUITABLE ?

~~TOO BIG GET FROM BAY BUBBLE CAR SUITS~~

~~PARTS - 55 TEEC VALVE TEEC PISTONS PART SUIT ? 22 mm~~

KNECHT DRGM OIL FILTER MAY FIT.

TIMING CHAIN IS A CAR SIZE

R 80 CENTRE STAND SPRING FITS