

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

ENGINE (AS OR SIMILAR RS, RS1, R61, R66, R71, RS1/2)

BORG & STROKE 70 x 78

CCM 600

COMP. RATIO 5.6-5.8:1 ANOTHER SOURCE GIVES 6:1

MAX RPM 4500

H.P. (DIN) 18 @ 4800 RPM?

OIL CAPACITY 2 LITRES SUMMER SAE 40 WINTER SAE 20

CARBS

2 FISCHER AMAL M 75/426/SR & SL

MAIN JET 85

SLIDE 5/4

NEEDLE 2.69

AIR SCREW OPEN GROOVE FROM TOP

URNS APPROX

GEARBOX (AS OR SIMILAR RS, RS1, R61, R66, R71, RS1/2, RS1/3)

RATIOS 1ST 3.6:1

2ND 2.28:1

3RD 1.7:1

4TH 1.3:1

OIL CAPACITY 0.75 LITRES SUMMER SAE 40 WINTER SAE 20

REAR DRIVE (AS OR SIMILAR RS, RS1, R61, R66, R71, RS1/2, RS1/3)

RATIO 3.89:1 SOLO GIVES 5.05:1 TOP GEAR

CROWN WHEEL 35 TEETH

PINION 9 TEETH

RATIO 4.62:1 SIDECAR GIVES 6:1 TOP GEAR

CROWN WHEEL 37 TEETH

PINION 8 TEETH

OIL CAPACITY 0.4 LITRES SUMMER SAE 40 WINTER SAE 20

BRAKES

DRUM DIAMETER 200mm

LINING DIMENSIONS 180mm x 25mm x 4mm

WHEELS

TYRES FRONT 3.50 x 19 PRESSURE 1.4 ATMOS (1.7 ATMOS SIDECAR)
(RIM 3.00 x 19)

REAR 3.50 x 19 PRESSURE 1.9 ATMOS (2.6 ATMOS SIDECAR)

SUSPENSION (AS RS)

FRONT 2 x 0.16 LITRES SAE 20 OIL

ELECTRICAL

DYNAMO BOSCH RD 45/6 2800 RS 15 45 WATT

IGNITION BATTERY & COIL

BATTERY BOSCH 7 AMP HOUR 6 BT DIN 72 311

COIL? BOSCH TJ 6/1

PLUGS BOSCH W17S TI OR BERU K17S & 1/14

PLUG GAP 0.6-0.7mm

CONTACT BREAKER GAP 0.4mm

MAIN DIMENSIONS

WHEEL BASE 1400 mm
 GROUND CLEAR 120 mm
 LENGTH 2130 mm
 WIDTH 815 mm
 HEIGHT 950 mm

WEIGHT

UNLOADED 175 kg
 MAX. LOADED 300 kg

PERFORMANCE

SOLO CONTINUOUS 95 km/hr
 SOLO MAX. 110 km/hr
 SIDECAR CONTINUOUS 80 km/hr
 SIDECAR MAX. 95 km/hr
 FUEL CAPACITY 14 LITRES TOTAL 1 LITRE RESERVE
 FUEL CONSUMPTION SOLO 4.7 LITRES/100 km @ 75 km/hr RANGE 300 km
 SIDECAR 5.6 LITRES/100 km @ 63 km/hr RANGE 250 km
 OIL CONSUMPTION 0.1 LITRES/100 km
 H.P. (DIN) / LITRE 30

ENGINE REPAIR DATAPISTONS

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

VALVES

RUNNING CLEARANCE 0.05-0.1 mm
 SEAT OUTER DIAMETER 34 mm
 TAPPET CLEARANCE COLD INLET 0.1 mm
 EXHAUST 0.1 mm
 VALVE SPRING FREE LENGTH 46 mm

CRANKSHAFT

MAX. RUNOUT 0.1 mm
 MAX JOURNAL OVALITY 0.03 mm

BIG END

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

SMALL END

GUIDED PIV RUNNING CLEARANCE 0.01-0.03 mm

MAIN BEARINGS

HOUSING DIAMETER FRONT 77mm $\begin{matrix} -0 \\ +0.03 \end{matrix}$ mm
REAR 77mm $\begin{matrix} -0 \\ +0.03 \end{matrix}$ mm
BEARING DIAMETER FRONT 77mm $\begin{matrix} +0.02 \\ +0.039 \end{matrix}$ mm
REAR 77mm $\begin{matrix} +0.02 \\ +0.039 \end{matrix}$ mm — RUNS DIRECT IN HOUSING OR COVER
INTERFERENCE FRONT 0.01-0.03mm
REAR 0.01-0.03mm
SIDE CLEARANCE BEARING TO FLYWHEEL 1mm MINIMUM
SIDE CLEARANCE CRANKSHAFT WEB OR OIL FLINGER RING
& HOUSING FRONT 1.6-2.5mm
REAR 1.5-2.3mm

CAMSHAFT

BORE DIAMETER IN HOUSING OR COVER FRONT 45mm $\begin{matrix} -0.009 \\ +0.034 \end{matrix}$ mm
REAR 26mm $\begin{matrix} -0 \\ +0.022 \end{matrix}$ mm
BUSH OR BEARING BODY OUTER DIAMETER FRONT 45mm $\begin{matrix} +0.017 \\ +0.035 \end{matrix}$ mm
REAR 26mm $\begin{matrix} +0.09 \\ +0.12 \end{matrix}$ mm
INTERFERENCE FRONT 0.002mm
REAR 0.01-0.02mm
RUNNING CLEARANCE 0.03-0.08mm
SIDE CLEARANCE 0.05-0.1mm
TIMING WHEEL TOOTH BACKLASH 0.03-0.05mm
TAPPET DIAMETRIC CLEARANCE 0.04-0.07mm

TIMING WITH 2mm VALVE (TAPPET) CLEARANCE

INLET OPENS 14° AFTER T.D.C.
CLOSES 26° AFTER T.D.C.
EXHAUST OPENS 26 BEFORE B.D.C.
CLOSES 14° BEFORE T.D.C.
IGNITION 5-6mm BEFORE T.D.C.
OR 30° ~ ~

LUBRICATION

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

GEARBOX REPAIR DATA

MAINSHAFT RUNNING CLEARANCE BALLRACE? IF PLAIN 0.05-0.1mm
MAINSHAFT SIDE CLEARANCE 0.1-0.5mm
LAYSHAFT RUNNING CLEARANCE FRONT & REAR 0.02-0.05mm
LAYSHAFT SIDE CLEARANCE 0.1-0.5mm
SHAFT END FLOATS MAXIMUM 0.1mm

GEARS

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

KICK STARTER SHAFT

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

KICK STARTER IDLER WHEEL

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

SELECTOR FORK

RUNNING CLEARANCE	0.05-0.12mm
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SUSPENSION REPAIR DATA

FRONT FORK

- STEERING HEAD BEARINGS 24 OF 5.5mm DIA
- BUSH RUNNING CLEARANCE TOP 0.025-0.1mm
- BOTTOM 0.025-0.075mm
- SPRING WIRE DIAMETER SOLO 5mm
- SIDECAR 5.25mm

REAR WHEEL DRIVE REPAIR DATA

- CROWN WHEEL FLOATS UPWARDS 0.1mm MAX
- SIDWAYS 0.05mm MAX.
- TOOTH BACKLASH 0.1-0.3mm
- PROP SHAFT END FLOAT 0.5mm
- AXIAL CLEARANCE OF PROP SHAFT 1-3mm?
- PROP SHAFT FITTING PRESSURE TO FRAME CARRIER OR SHOCK ABSORBER 1500 kg MIN

OTHER USEFUL INFORMATION

- BSA DI BANTAM SILENCERS LOOK O.K
- BSA BANTAM BATTERY IS OF CORRECT DIMENSIONS
- NSU CAR HEADLAMP REFLECTOR SUITABLE?
- GREGGS BRAKE LININGS SUITABLE?
- 1964 VW VAN CONTACT BREAKER POINTS SUITABLE
- 1964 VW VAN CONDENSER SUITABLE
- RS, RS1, RG1, RG6, RT1 ENGINE PARTS SUITABLE
- RS1/2 ENGINE PARTS LESS BARRELS PISTONS & HEADS SUIT
- MANY M63 URAL PARTS MAY BE INTERCHANGEABLE
- VALVE TIMING SET CRANKSHAFT & CAMSHAFT SPROCKETS SO THAT ARROWS POINT TO CENTRE i.e. $\rightarrow \uparrow \leftarrow$ OR SHARE OVERLAP.