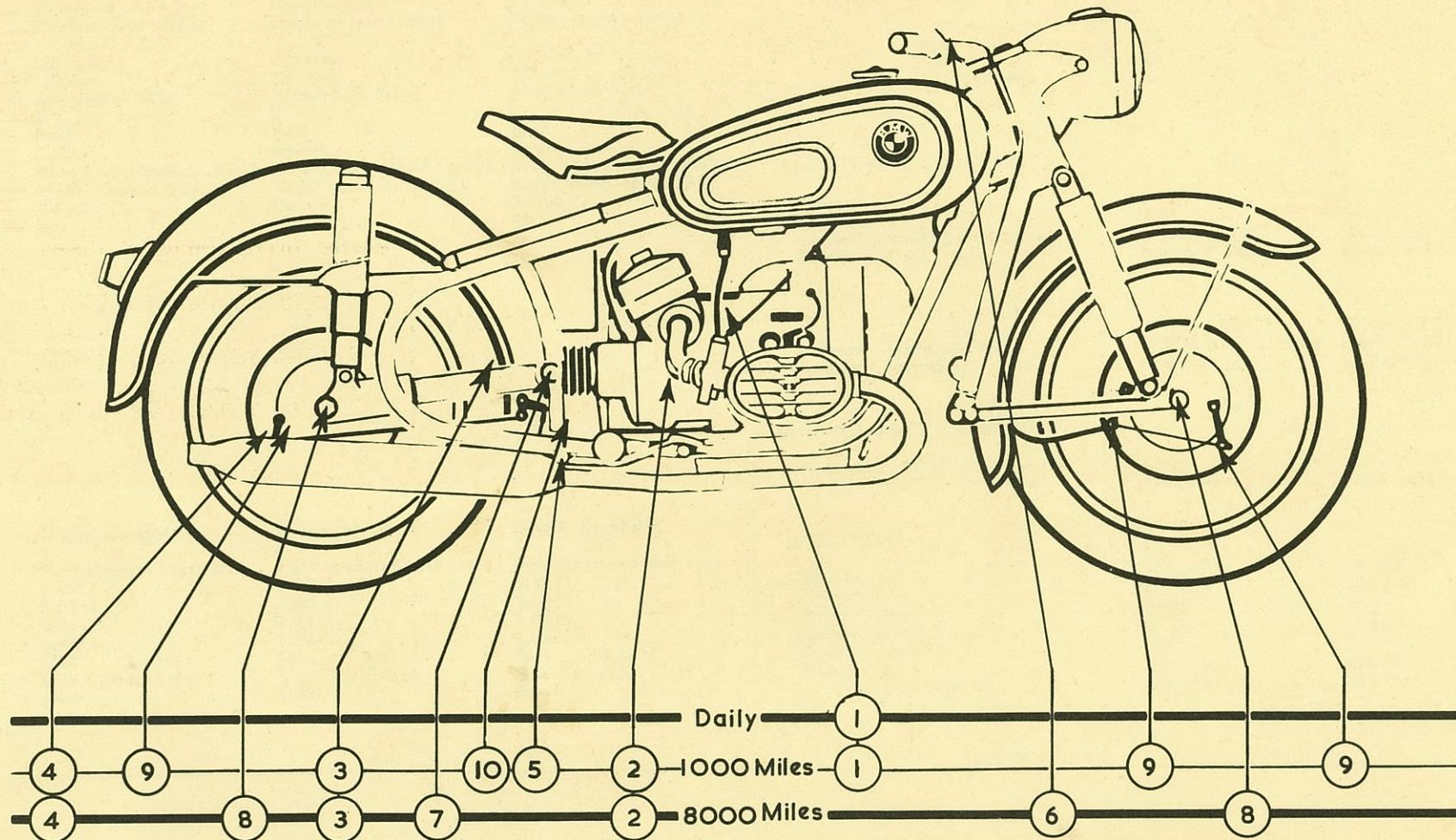




SERVICING DATA SHEET

FOR
THE LUBRICATION OF

B. M. W. R50, R60 and R69 MOTOR CYCLES



SPECIFICATIONS

ENGINE

	R 50	R 60	R 69
Type	4	4	4
Cycle	2	2	2
No. of cylinders	68 mm.	72 mm.	72 mm.
Bore	68 mm.	73 mm.	73 mm.
Stroke	490 cc.	590 cc.	590 cc.
Capacity	26 h.p. @ 5,800 r.p.m.	28 h.p. @ 5,600 r.p.m.	35 h.p. @ 6,800 r.p.m.
Maximum b.h.p.	6.8:1	6.5:1	7.5:1
Compression ratio	Overhead	Overhead	Overhead
Valve - position	Pushrod and rocker	Pushrod and rocker	Pushrod and rocker
operation			
clearances (cold)			
Inlet	.15 mm.	.15 mm.	.15 mm. to .20 mm.
Exhaust	.20 mm.	.20 mm.	.20 mm. to .25 mm.
Pistons	Aluminium Alloy	Aluminium Alloy	Aluminium Alloy
Main bearings - no.	2	2	2
type	Ball	Ball	Ball
Big-end bearings - type	Roller	Roller	Roller
Carburetter	Bing Left hand-1/24/45	Bing Left hand-1/24/95	Bing Left hand-1/26/9
	Right Hand-1/24/46	Right hand-1/24/96	Right hand-1/26/10
Oil filter	Gauze	Gauze	Gauze
Cooling - type	Air	Air	Air

TRANSMISSION

	Single dry plate	Single dry plate	Single dry plate
Clutch	4	4	4
No. of forward speeds	Foot operated left side	Foot operated left side	Foot operated left side
Position of lever	5.33:1	5.33:1	5.33:1
Overall gear ratios - 1st	3.02:1	3.02:1	3.02:1
2nd	2.04:1	2.04:1	2.04:1
3rd	1.54:1	1.54:1	1.54:1
top	Solo 3.18:1	Solo 2.91:1	Solo 3.18:1
Bevel drive ratio	Side Car 4.33:1	Side Car 3.86:1	Side Car 4.33:1
Final drive	Shaft	Shaft	Shaft

FRAME

Brakes - front	
rear	
Suspension - front and rear	
Tyres - R50, R60 and R69	
Size	
pressures (lb.sq.in.)	
- front	20
- rear	24
- side car wheel	-

ELECTRICAL EQUIPMENT

Voltage	6
Ignition	Coil
Contact breaker points gap	.4 mm. (.016")
Sparkign plugs - type	Bosch W 240 T1
gap	.6 mm. (.024")
Dynamo - make and type	NORIS L60/6/1500L
Battery - capacity	6v 8 a.h.

APPROXIMATE CAPACITIES

Fuel tank - R 50, R 60, R 69	
------------------------------	--

DIMENSIONS

Wheelbase	4' 7½"
Overall length	6' 11½"
Overall width	2' 2"
Saddle Height	2' 4½"
Ground clearance	5.3"
Weight solo	430 lbs.
with side-car	705 lbs.

Cable Rod	Cable Rod	Cable Rod	Cable Rod
Swinging Arm and telescopic shock absorbers	Swinging Arm and telescopic shock absorbers	Swinging Arm and telescopic shock absorbers	Swinging Arm and telescopic shock absorbers
Solo 3.5 x 18			
Side car - front 3.5 x 18			
rear 4.00 x 18			
Solo	With Pillion Passenger	Side Car (Occupied)	Pillion and Side Car (Occupied)
20	20	21	21
24	33	27	38
-	-	27	27

Coil	Coil	Coil
.4 mm. (.016")	.4 mm. (.016")	.4 mm. (.016")
Bosch W 240 T1	Bosch W 240 T1	first 600 miles
		Bosch W 175 T1 -
		subsequently
		Bosch W 240 T1
		.6 mm. (.024")
.6 mm. (.024")	.6 mm. (.024")	NORIS L/60/6/1500L
NORIS L60/6/1500L	NORIS L60/6/1500L	6v 8 a.h.
6v 8 a.h.	6v 8 a.h.	

- main	3¼ Imp.glns. (4½ U.S.glns.)
- reserve	2¼ Imp.pts. (3¼ U.S. pts.)

4' 7½"	4' 7½"	4' 7½"
6' 11½"	6' 11½"	2' 4½"
2' 2"	2' 2"	2' 4½"
2' 4½"	2' 4½"	2' 4½"
5.3"	5.3"	5.3"
430 lbs.	430 lbs.	445 lbs.
705 lbs.	705 lbs.	705 lbs.

1. ENGINE: 3½ Imp.pts. (4¼ U.S. pts.)
X-100

above 90°F 40

32°F to 90°F 40

0°F to 32°F 20/20W or 20W/40

below 0°F 10W/30

Daily
1,000 mls. *

Top up if necessary
Drain, flush and refill

2. GEARBOX: 1½ Imp.pts. (1¾ U.S. pts.)
above 90°F

SHELL X-100 MOTOR OIL 40

32°F to 90°F

SHELL X-100 MOTOR OIL 40

below 32°F

SHELL X-100 MOTOR OIL 20/20W

1,000 mls. **
8,000 mls. ***

Top up if necessary
Drain, flush and refill

3. FINAL DRIVE SHAFT HOUSING:
¼ Imp.pt. (½ U.S. pt.)
all temperatures

SHELL X-100 MOTOR OIL 40

1,000 mls. **
8,000 mls. ***

Top up if necessary
Drain, flush and refill

4. BEVEL DRIVE HOUSING:
¼ Imp.pt. (½ U.S. pt.)
all temperatures

SHELL X-100 MOTOR OIL 40

1,000 mls. **

Top up if necessary

8,000 mls. ***

Drain, flush and refill

5. BRAKE PEDAL PIVOT --
SHELL RETINAX A

1,000 mls.

Gun - 1 fitting

6. CLUTCH AND HANDBRAKE CABLES --
SHELL RETINAX A

8,000 mls.

Smear

7. SWINGING ARM SUSPENSION PIVOTS
- front and rear --

SHELL RETINAX A

8,000 mls.

Remove, clean, grease taper roller bearings,
replace

8. WHEEL BEARINGS --
SHELL RETINAX A

8,000 mls.

Clean and repack

9. BRAKE -- AS FOR ENGINE
1,000 mls. Oil can

Cam spindles - few drops

Rod - few drops

10. CLUTCH OPERATING LEVER --
AS FOR ENGINE

1,000 mls. Oil can - few drops

NOTES

* Initially after first 300 and 700 miles.

** Initially after first 300 miles.

*** Initially after first 1000 miles.

All capacities are refill quantities.

For information on regular maintenance jobs other than
lubrication, reference should be made to the manufacturer's
instruction book.