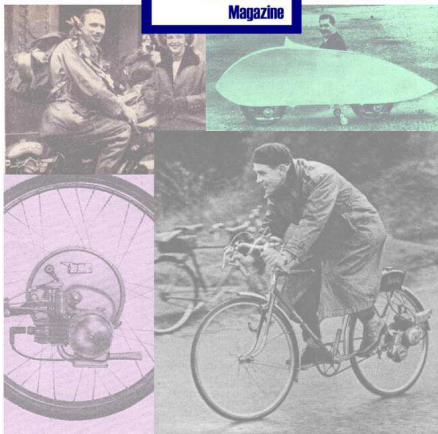


IceniCAM Information Service



**49 C.C.
MINI-MOTOR**

- DATA -

MINI-MOTOR (GT. BRITAIN) LTD

**CROYDON
ENGLAND**



ISSUE N°

SPECIFICATION OF MINI-MOTOR UNIT WITH 49.9 c.c.ENGINE.

YEAR OF PRODUCTION 1949 TO DATE.

SERIAL NO.

Commencing at 1000. No. prefixed by letter
Indicating Year of Manufacture.

A. 1949

B. 1950

C. 1951

ENGINE SERIAL NO. }
LOCATED. }

1000 to 5000. Top Face of Crankcase, Magneto Side.
5000 Onwards, Bottom " " " " "

ENGINE DATA.

Type.	2 Stroke. Air Cooled.	
No. of Cylinders.	One.	
Weight.	12 1/2 lb.	5.67 kg.
Bore.	1.4961 inches.	38 mm.
Stroke.	1.732 inches.	44 mm.
Total Piston Displacement. }	3.045 cu. inches.	.0499 Litres.
Compression Ratio.	5.8 to 1.	
Compression Gauge Pressure. }	50/55 p.s.i. when motored at 200 r.p.m. with Throttle wide open.	
B.H.P.	1.0 at 3400 r.p.m.	
Max.Torque.	26.7 in.lb. at 2800 r.p.m.	.3076 Metre-Kilograms.
Ignition Timing.	29° before t.d.c. or 1/8" Measured on the Piston Stroke.	3.175 mm.

Sparking Plug.	1 Per Engine.	
Type.	Lodge C 14. or K.L.G. F.50. or Champion J.8.	
Gap.	.018/.020"	.46/.50 mm.
Magneto.	Flywheel Type. Wico-Pacy or Miller.	
Contact Breaker.	Point Gap .018 inches.	.46 mm.
Lubrication System.	Petrol. 20 part petrol to 1 part of oil. Equal to 1 tank full of petrol to 4 measures (in tank filler cap) of oil.	
Petrol Consumption.	200/240 m.p.g. average load, normal conditions.	
Tank Capacity.	5 pints.	2.84 Litres.
Carburettor.	Trojan. (Made under Dellorto License.)	
Carburettor Setting.	Choke. .3543 Main Jet. 43 for Temperate Climates, smaller or larger Jets may be required for Hotter or Colder Climates.	9 mm.
Carburettor Fittings.	(Primer Pump. (Rich & Weak Running Control.	

Piston Rings.	2. Per Piston, (Pegged Type.)	
	Piston Clearance at Top Land	.0080" max. .0065" min.
	Piston Clearance at Bottom of Skirt.	.0036" max. .0020" min.
	Piston Ring Side Clearance in Groove.	.0026" max. .0010" min.
	Piston Ring End Clearance.	.0095" max. .0045" min.
	Gudgeon Pin. Fit in Piston.	.00015" Clearance. .0004" Interference.
Bearings.	Gudgeon Pin, Clearance in Conn Rod.	.0009" max. .0002" min.
	Ball Bearing Mains. Bearing Size -	40 mm. O.D. 17 mm. I.D. 12 mm. Wide.
	Roller Bearing Big End. Rollers 1/4 dia. x 1/4 long.	
Lubricating Oil Viscosities.	S.A.E. 20.	
<u>Drive</u>	Cast Iron Finned Roller, or Alternative composite roller can be fitted.	

Tyres.
Type.

In the absence of a special
"Power Drive" type of tyre, we
advise fitting a heavy (i.e. Tandem
type) Pattern tyre, with, for
preference, a ribbed tread, to the
Rear Wheel.

Pressure.

Inflate Dead Hard.
50/55 lb. sq.in.

Weight of Unit
complete.

26 lb.

