

## TECHNICAL DATA.

### SPORTS TWINS.

Engine capacity	...	...	...	...	...	...	592 cc.
Bore and Stroke	...	...	...	...	...	...	72×72.8 mm.
Compression ratio	...	...	...	...	...	...	8.5
Carburettor AMAL Monobloc	...	...	...	...	...	...	Type 376/78
Carburettor bore size	...	...	...	...	...	...	1 $\frac{1}{16}$ Ins.
Main jet size	...	...	...	...	...	...	280
Main jet size with Air Filter	...	...	...	...	...	...	240
Throttle slide	...	...	...	...	...	...	376/3 $\frac{1}{2}$
Pilot jet	...	...	...	...	...	...	30
Needle position	...	...	...	...	...	...	Third position
Needle jet	...	...	...	...	...	...	.106
Petrol Tank capacity	...	...	...	...	...	...	2 gallons
Oil Tank capacity	...	...	...	...	...	...	4 pints
Front chain	...	...	...	...	...	...	66 links $\frac{1}{2}$ in. × .305 in.
Rear chain	...	...	...	...	...	...	97 links $\frac{3}{4}$ in. × .380 in.
Engine sprocket normal. (Competition)	...	...	...	...	...	...	19 teeth
Engine sprocket standard. (Touring)	...	...	...	...	...	...	22 teeth
Gear ratios	...	...	...	...	...	...	See page 12
Sparkling plugs	...	...	...	...	...	...	K.L.G. FE. 80
Sparkling plugs. Competition type	...	...	...	...	...	...	FE. 220

## SUPPLEMENTARY INSTRUCTIONS FOR TRIALS AND SCRAMBLES MODELS.

(To be used in conjunction with normal Instruction Book).

## TECHNICAL DATA.

### TRIALS MODELS.

Capacity	...	...	...	...	...	...	347 cc.
Bore	...	...	...	...	...	...	69 mm. (2.7187 Ins.)
Stroke	...	...	...	...	...	...	93 mm.
Compression Ratio	...	...	...	...	...	...	6.5
Carburettor Type	...	...	...	...	...	...	376/59T Monobloc
Carburettor Bore	...	...	...	...	...	...	1 $\frac{1}{16}$ Ins.
.. Main Jet	...	...	...	...	...	...	210
.. Slide	...	...	...	...	...	...	3
.. Needle Jet	...	...	...	...	...	...	107 T
.. Pilot Jet	...	...	...	...	...	...	30
Ignition Setting	...	...	...	...	...	...	Maximum advance $\frac{1}{2}$ in. (free wire control)
Magneto Type	...	...	...	...	...	...	NR—1 (Lucas 42179E)
Sparkling Plug	...	...	...	...	...	...	K.L.G. FE. 80
Petrol Tank capacity	...	...	...	...	...	...	2 gallons
Oil Tank capacity	...	...	...	...	...	...	4 pints
Ground clearance	...	...	...	...	...	...	10 Ins.
Tyre Sizes	...	...	...	...	...	...	Rear 4.00×19
Tyre Sizes	...	...	...	...	...	...	Front 2.75×21 } Trials Universal
Contact Breaker Gap	...	...	...	...	...	...	.012 Ins.
Chain Sizes and Length: Primary Chain	...	...	...	...	...	...	$\frac{1}{2}$ × .305 66 links
Rear Chain	...	...	...	...	...	...	$\frac{3}{4}$ × .380 97 links
Brakes	...	...	...	...	...	...	7 Ins. × $\frac{3}{4}$ Ins.

**TECHNICAL DATA.**  
**SCRAMBLES MODELS.**

	<b>Model 350</b>	<b>Model 500</b>
Engine capacity ... ..	348 cc.	497 cc.
Bore and Stroke ... ..	72×85.5 mm.	86×85.5 mm.
Compression Ratio ... ..	9.9	8.7
Carburettor AMAL Monobloc	389/18	389/12
Choke Diameter ... ..	1 $\frac{1}{8}$ in.	1 $\frac{1}{8}$ in.
Main Jet No. ... ..	270	440
Pilot Jet No. ... ..	30	30
Slide No. ... ..	3	3
Needle Position ... ..	Centre Notch	Centre Notch
Needle Jet ... ..	.106	.106
Petrol Tank capacity ... ..	2 gallons	2 gallons
Oil Tank capacity ... ..	4 pints	4 pints
Brakes ... ..	7 ins. × $\frac{7}{8}$ ins.	7 ins. × $\frac{7}{8}$ ins.
Rear Chain ... ..	$\frac{3}{8}$ ins. × 0.380 ins.—97 links	97 links
Primary Chain ... ..	$\frac{1}{2}$ in. × 0.305 in.—66 links	67 links
Sparkling Plug. (For Running-In)	FE. 80	F.E 80
Sparkling Plug. (For Racing)	FE. 220	FE. 220

**TYPHOON MODEL (600 c.c.)**

**TECHNICAL DATA.**

Bore ... ..	89 m.m. (3.500)
Stroke ... ..	96 mm. (3.780)
Compression Ratio ... ..	8.7 to 1
Ignition Timing ... ..	30° (maximum advance)
Carburettor. Type ... ..	G.P. 5
.. Bore ... ..	1 $\frac{1}{8}$ in.
.. Main Jet ... ..	330
.. Slide ... ..	No. 7
.. Needle ... ..	5 G.P.
Sparkling Plug ... ..	FE 220
.. .. Gap ... ..	.020-.022 in.
Engine sprocket 19 teeth.	(See 500 c.c. Scrambles model gear ratios)
Valve Timing ... ..	(See 500 c.c. Scrambles models)
Petrol Tank capacity ... ..	3 galls.

For Frame and Transmission details see 500 c.c. Scrambles models.