

GENERAL DATA

MODEL TR6—TROPHY

FOR DATA NOT GIVEN HERE REFER TO GENERAL DATA—MODEL T120

ENGINE

BASIC DETAILS

Bore and stroke	... ..	71 × 82 mm.
Bore and stroke	... ..	2.795 × 3.228 in.
Cubic capacity	... ..	649 c.c. (40 cu. in.)
Compression ratio	... ..	9 : 1
Power output (B.H.P. @ R.P.M.)	... ..	43 @ 6,500

PISTONS

Material	... ..	Aluminium Alloy—Die Casting
Clearance: Top of skirt	... ..	.0106/.0085 in.
Bottom of skirt	... ..	.0061/.0046 in.
Gudgeon pin hole diameter	... ..	.6882/.6886 in.

VALVE TIMING

Set all tappet clearances @ .020 in. (.50 mm.) for checking	<table> <tr> <td rowspan="4" style="font-size: 3em; vertical-align: middle;">}</td> <td>Inlet opens 34° before top centre</td> </tr> <tr> <td>Inlet closes 55° after bottom centre</td> </tr> <tr> <td>Exhaust opens 55° before bottom centre</td> </tr> <tr> <td>Exhaust closes 34° after top centre</td> </tr> </table>	}	Inlet opens 34° before top centre	Inlet closes 55° after bottom centre	Exhaust opens 55° before bottom centre	Exhaust closes 34° after top centre
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	Exhaust opens 55° before bottom centre						
	Exhaust closes 34° after top centre						

FUEL SYSTEM

Single Carburettor	... ..
Amal type	... ..	R930/23
Main jet size	... ..	230
Needle jet size	... ..	.107
Needle type	... ..	STD.
Needle position	... ..	2
Throttle valve:		
Type	... ..	3
Return spring free length	... ..	2½ in.
Carburettor nominal bore size	... ..	30 mm.
Air cleaner type	Filter cloth and metal gauze

WHEELS

FRONT WHEEL

Tyre size	3.25 × 19 in.
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FRAME AND ATTACHMENT DETAILS

REAR SUSPENSION

Spring details:		Solo	Sidecar
Fitted length	...	8 ³ / ₈ in.	8 ³ / ₈ in.
Free length	...	8 ³ / ₈ in.	8 ³ / ₈ in.
Mean coil diameter	...	1 in.	1 ³ / ₈ in.
Spring rate	...	100 lb./in.	150 lb./in.
Colour code	...	Green/green	Blue/red
Load at length fitted	...	28 lb.	73 lb.

GENERAL

BASIC DIMENSIONS

Ground clearance	...	6 in. (15 cm.)
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U.S.A. ONLY**TR6R, TR6C, T120R**

**FOR DATA NOT GIVEN HERE REFER TO GENERAL DATA FOR
MODELS T120 AND TR6**

ENGINE**TACHOMETER DRIVE (TR6R, T120R)**

Type of tachometer gearbox	...	...	...	...	...	...	...	...	...	...	...	90° drive from L/H end of exhaust camshaft
Drive ratio	...	...	...	...	...	...	...	...	...	...	...	4:1
Cable length	...	...	...	...	...	...	...	...	...	...	...	28 in.
Tachometer head	RSM 3003/01

TRANSMISSION**GEARBOX SPROCKET TR6C**

No. of teeth	18
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FRAME**PETROL TANK**

TR6R	3½ galls. (4.117 U.S. galls.)
TR6C, T120R	2½ galls. (2.912 U.S. galls.)

SUSPENSION UNITS TR6C, TR6R, T120R

Spring details:												
Fitted length	...	...	...	...	...	...	...	...	...	...	...	8⅜ in.
Free length	...	...	...	...	...	...	...	...	...	...	...	8⅝ in.
Mean coil diameter	...	...	...	...	...	...	...	...	...	...	...	1⅜ in.
Spring rate	...	...	...	...	...	...	...	...	...	...	...	100 lb./in.
Colour code	...	...	...	...	...	...	...	...	...	...	...	Green/Green
Load as fitted length	...	...	...	...	...	...	...	...	...	...	...	28 lb.

WHEELS**REAR WHEEL NON-QD**

Rim size	WM3×18
Tyre size	4.00×18 in.

ELECTRICAL

Cut out switch	151 SA
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HEADLAMP MCH 66

Light unit diameter	5⅜ in.
Bulb, main	12 V. Lucas 464 type 40/27 watt, vert-dip prefocus
Bulb, pilot	...	...	...	...	...	...	...	...	...	...	...	12 V. Lucas 989 type 6 watt, M.C.C.

TAIL LAMP

Type	...	...	...	...	...	...	...	...	...	...	...	Type L679
Bulb...	12 V. Lucas 380 21/6 watt, S.B.C. offset pin

COILS, TR6R, TR6C, T120R

Type	Siba 32,000/1 or Lucas 17M12
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