650 cm³ Thunderbolt

NOK 130

BSA's wide racing experience has provided the know-how to make the Thunderbolt so successful. This vertical twin cylinder engine offers the ideal combination-large capacity plus a single carburetter configuration.

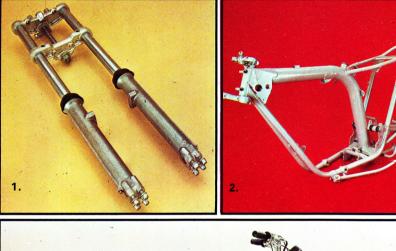
This means mechanical simplicity, unobtrusive power, economy plus a top speed of over 100 mph with dynamic acceleration.

Now the Thunderbolt is even better, incorporating new front fork design for better handling, new brakes and an immensely strong frame.

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The issue of this brochure does not constitute an offer and illustrations and specifications described herein will vary for different countries. In line with our policy of continuous research and development we reserve the right to alter or change specification at any time without notice.

New 650 cm³ Thunderbolt





SPECIFICATIONS

ENGINE

Twin O.H.V. Light alloy cylinder head. Pushrod valve operation. Single carburetter. Twin, easily adjustable contact breakers. Gear type oil pump. FORKS:

Two-way damped, with strong alloy legs to minimise unsprung weight.

REAR SUSPENSION

Swinging fork, hydraulically damped and adjustable for load.

GEARBOX: Four speed. Multiplate clutch with bonded segments and built-in transmission shock absorber.

BRAKES

Conical light alloy hubs. Front 8" twin leading shoe drum brake. Balanced shoe application and individual snail cam shoe adjustment. Rear brake 7" single leading shoe with fully floating cam.

ELECTRICAL AND LIGHTING EQUIPMENT:

12 volt. One coil per cylinder. Crankshaft mounted alternator. New master electrical switch and handlebar switch consoles. Direction indicators.

FRAME:

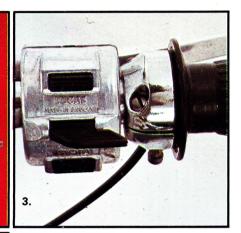
New, all welded Duplex cradle frame with large diameter oil-containing main tube. Tapered roller steering head bearings. PETROL TANK:

All steel welded, with quick release filler cap. DUAL SEAT ASSEMBLY:

Hinged seat providing ready access to battery and other electrical equipment.

HANDLEBARS AND FITTINGS:

Chromium plated with smooth action twist grip. Heavy duty brake cables with built-in adjuster clutch and front brake lever brackets have built-in mirror fixing points and switch consoles.



NEW FEATURES

- 1. New front fork design with full two-way hydraulic damping, gives smooth controlled ride whatever the road conditions.
- New frame is immensely strong and rigid because of the large diameter main tube. This carries the engine oil too, thus effecting a significant weight saving and improved heat dissipation. A frame plotted by computer and proved over the most punishing test surfaces available.
- New compact switch arrangement with horn button, dip switch, direction indicator switches, headlamp flasher and ignition cut-out button in two compact consoles.
- PLUS THESE EXTRA FEATURES:
- Fade free brakes—front 8" with twin leading shoes. Rear brake 7" single leading shoe and fully floating cam.
- New conical hubs front and rear, made from light alloy. Design adds strength, dissipates heat faster.
- New megaphone type silencers.
- Flashing direction indicators front and rear. Instruments and headlamp cushioned in new anti-shock mountings.

TECHNICAL DATA

Engine Type	ону	Primary Chain Size	∦ ″ Triplex
No. of Cylinders	2	Rear Chain Size	₹″ × ₹″
Bore/Stroke mm.	75 x 74	Tyre Size Front	3.25 x 19
Bore/Stroke ins.	2.95 x 2.91		К70
Capacity cm ³	654	Tyre Size Rear	4.00 x 18
Capacity cu. ins.	39.91		К70
Comp. Ratio	9:1	Front Brake dia/type ins/cm	8″ 2LS 20
Eng. Spr. Teeth	28	Rear Brake dia/type ins/cm	7″ 1LS 18
Clutch Spr. Teeth	58	Finish	Sterling
G/Box Spr. Teeth	20 ·		Moss
Rear Spr. Teeth	47	Cost Haisht is a farm	(Green)
RPM @ 10 MPH (top gear)	649	Seat Height ins/cm	32″/81
Gear ratio 4th	4.87	Wheel base ins/cm	56″/142
,, ,, 3rd	5.57	Length ins/cm	87 <u>1</u> ″/222
,, ,, 2nd	7.79	Width ins/cm	33″/84
"" 1st	12.23	Ground Clearance ins/cm	7 <i>±″/</i> 19
Carburetter Make	Amal	Dry Weight Ibs/kilos	390/176
T	R928	Petrol-Imp gallons/litres	2 <u></u> 11.33
,, Туре	1320	Oil-Imp pints/litres	5/2.8

