



650 cm³ Firebird Scrambler



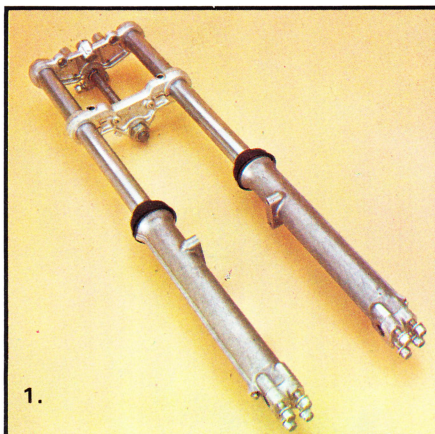
With a host of North American sporting victories to its credit, the new Firebird Scrambler has now been improved even further!

A high performance twin carburetter 650 cm³ engine in a new immensely strong frame. The tough off-the-road specification includes upswept exhaust pipes, sturdy engine undershield, the right gearing for the job and the many new features shown below. Firebird Scrambler . . . the dramatic new version of a proven machine.

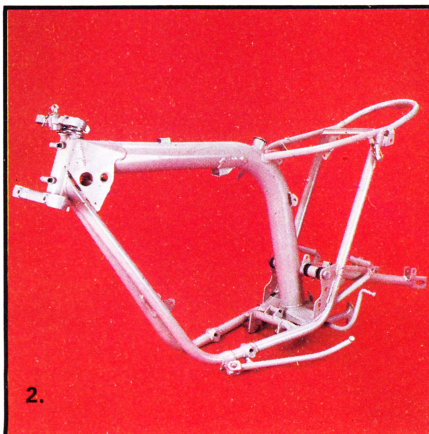
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The issue of this brochure does not constitute an offer and illustrations and specifications described herein will vary for different countries. In line with our policy of continuous research and development we reserve the right to alter or change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

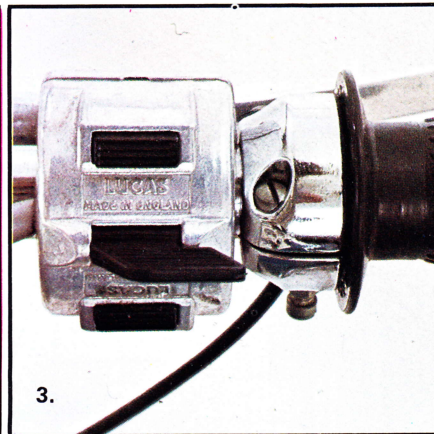
New 650 cm³ Firebird Scrambler



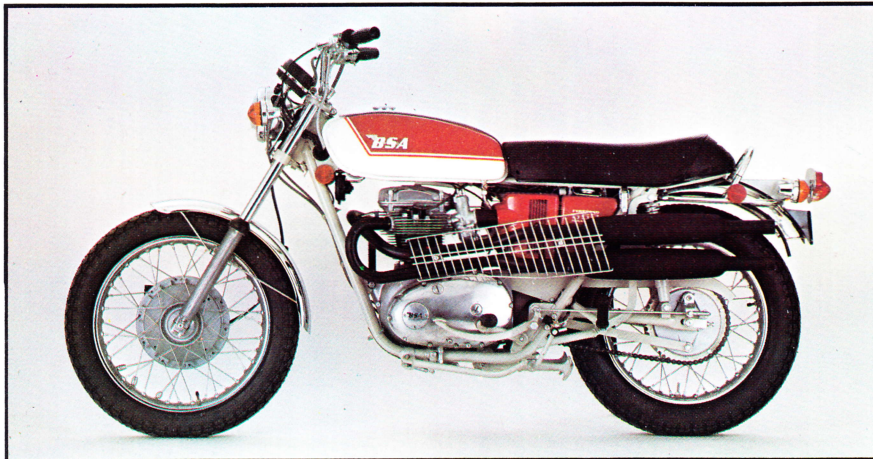
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2.



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NEW FEATURES

1. New front fork design with full two-way hydraulic damping, gives smooth controlled ride whatever the road conditions.
2. New frame is immensely strong and rigid because of the large diameter main tube. This carries the engine oil, thus effecting a significant weight saving and improved heat dissipation. A frame plotted by computer and proved over the most punishing test surfaces available.
3. New 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 7" brake with single leading shoe and fully floating cam.
- New conical hubs front and rear, made from light alloy. Design adds strength, dissipates heat faster.
- New matt black upswept exhaust system, with chromium heat shield.
- Flashing direction indicators front and rear.
- Instruments and headlamp cushioned in new anti-shock mountings.

SPECIFICATIONS

ENGINE:

Twin O.H.V. Light alloy cylinder head. Pushrod valve operation. Twin carburetters. 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 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 adjusters. Clutch and front brake lever brackets have built-in mirror fixing points and switch consoles.

TECHNICAL DATA

Engine Type	OHV	Primary Chain Size	$\frac{3}{8}$ " Triplex
No. of Cylinders	2	Rear Chain Size	$\frac{5}{8}$ " x $\frac{3}{8}$ "
Bore/Stroke mm.	75 x 74	Tyre Size Front	3.50 x 19
Bore/Stroke ins.	2.95 x 2.91		K70
Capacity cm ³	654	Tyre Size Rear	4.00 x 18
Capacity cu. ins.	39.91		K70
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	Bronze
G/Box Spr. Teeth	18	Seat Height ins/cm	32"/81
Rear Spr. Teeth	47	Wheel base ins/cm	56"/142
RPM @ 40 MPH (top gear)	721	Length ins/cm	87½"/222
Gear ratio 4th	5.41	Width ins/cm	33"/84
" " 3rd	6.19	Ground Clearance ins/cm	7½"/19
" " 2nd	8.65	Dry Weight lbs/kilos	395/179
" " 1st	13.58	Petrol—Imp gallons/litres	2½/11.33
Carburetter Make	Amal (2)	Oil—Imp pints/litres	5/2.8
" Type	R930/L930		