

Ride the exciting life

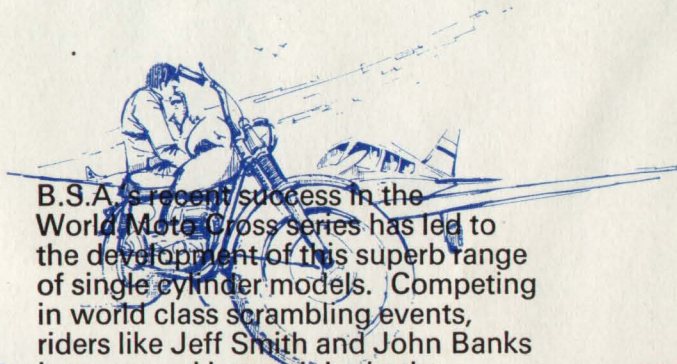


GET ASTRIDE THE EXCITING LIFE WITH B.S.A.

B.S.A. have really exciting news. Improved machines promise new experiences for 1970. B.S.A.'s formidable skill and resources, backed by over one hundred years of experience, have produced an unbeatable range of powerful, smooth machines with space age performance.

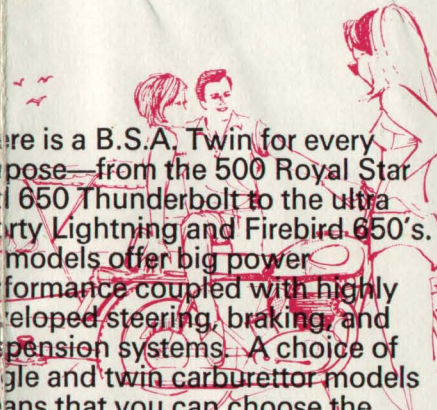
Constant research, testing and development has resulted in numerous improvements to all models. So this year's machine is now even better than ever—right through the range from the Bantam to the one and only top of the line Rocket 3.

This is the big news for 1970. Better machines for more excitement. And they're waiting now at your B.S.A. dealer. Ready—for the exciting life?



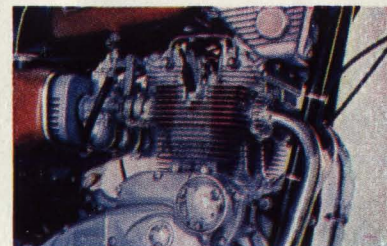
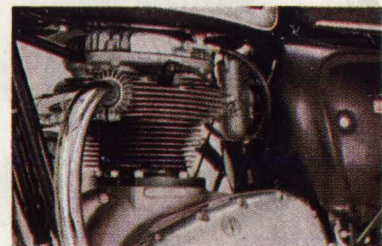
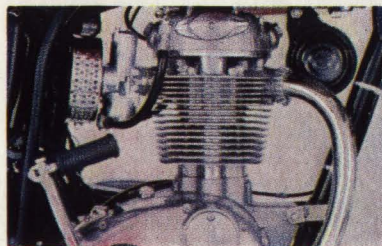
SINGLES

B.S.A.'s recent success in the World Moto-Cross series has led to the development of this superb range of single cylinder models. Competing in world class scrambling events, riders like Jeff Smith and John Banks have proved beyond doubt the superiority of the B.S.A. single. Lessons learned in preparing their winning competition mounts have been applied to standard production models, and a host of race proved features are now incorporated throughout the single cylinder range.

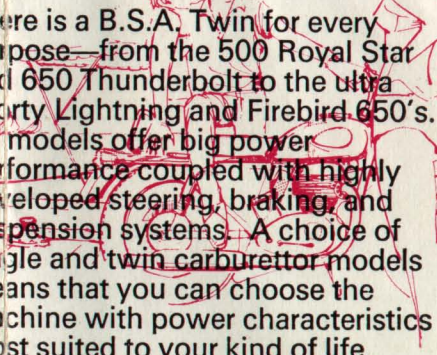


TWINS

There is a B.S.A. Twin for every purpose—from the 500 Royal Star and 650 Thunderbolt to the ultra sporty Lightning and Firebird 650's. All models offer big power performance coupled with highly developed steering, braking, and suspension systems. A choice of single and twin carburettor models means that you can choose the machine with power characteristics most suited to your kind of life. Touring or sporting, it's got to be B.S.A.



TWINS

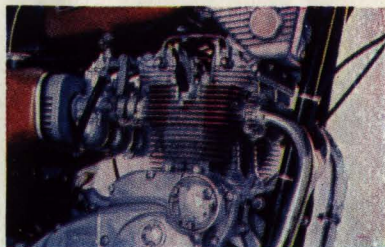
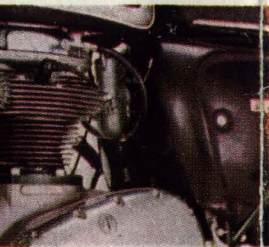


There is a B.S.A. Twin for every purpose—from the 500 Royal Star and 650 Thunderbolt to the ultra sporty Lightning and Firebird 650's. All models offer big power performance coupled with highly developed steering, braking, and suspension systems. A choice of single and twin carburettor models means that you can choose the machine with power characteristics most suited to your kind of life. Touring or sporting, it's got to be B.S.A.

TRIPLE



The B.S.A. Rocket 3, a new experience in motor cycling. This machine is for those who demand the ultimate in power, smoothness, and handling. Developed over a period of several years the three-cylinder concept has only been made possible by B.S.A. expertise and the application of the most advanced engineering techniques. The revolutionary all alloy three cylinder power plant features three carburettors—oil cooling radiator and dry single plate clutch for powerhouse performance—quiet, cool running and silky smooth transmission. Rocket 3—quite simply the most exciting and the best.



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 specifications at any time without notice.





Go your own way

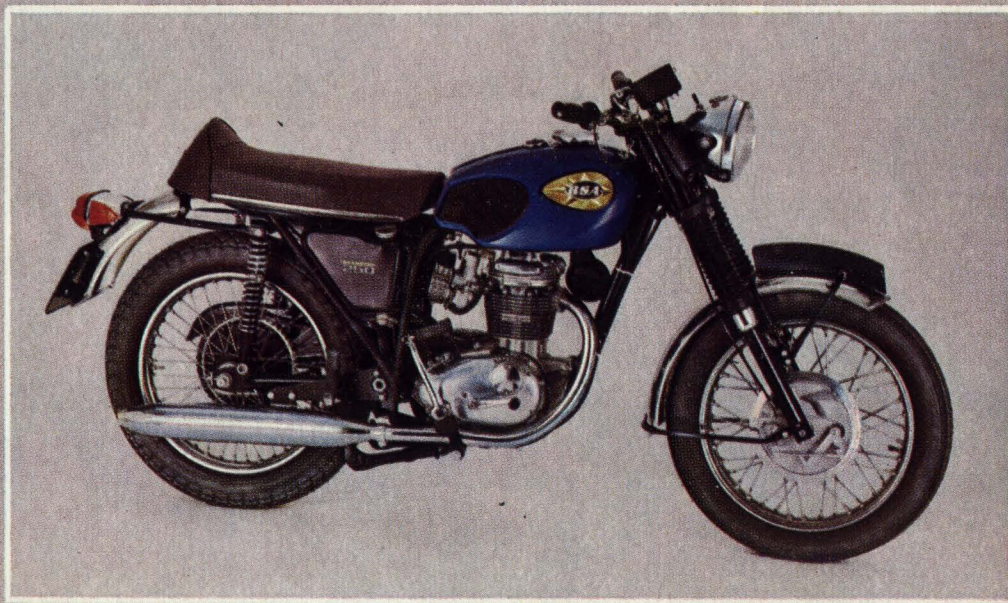
MODEL	250 c.c. Starfire B25	441 c.c. Shooting Star B44 SS	441 c.c. Victor Special B44 VS
-------	-----------------------------	--	---

ENGINE

Bore, mm. (in.)	67 (2.64)	79 (3.11)	79 (3.11)
Stroke, mm. (in.)	70 (2.75)	90 (3.54)	90 (3.54)
Capacity, c.c. (cu. in.)	247 (15.19)	441 (26.9)	441 (26.9)
Compression ratio	10 : 1	9.4 : 1	9.4 : 1
Valves	O.H.V.	O.H.V.	O.H.V.
Ignition	Coil	Coil	Coil
Carburettors	One	One	One

TRANSMISSION

Sprockets:			
Engine	23	28	28
Clutch	52	52	52
Gearbox	16	17	17
Rear wheel	49	47	49
Top gear	6.92	5.14	5.36
Third gear	8.6	6.42	6.70
Second gear	11.4	8.47	8.84
First gear	19.2	13.6	14.20
Chain (front)	$\frac{3}{8}$ " Duplex	$\frac{3}{8}$ " Duplex	$\frac{3}{8}$ " Duplex
Chain (rear)	$\frac{3}{8}$ " x $\frac{1}{2}$ "	$\frac{3}{8}$ " x $\frac{1}{2}$ "	$\frac{3}{8}$ " x $\frac{1}{2}$ "



250 c.c. STARFIRE

Go BSA

Break away from the pack. Your 250 **Starfire** will lead the way—but fast! 24 b.h.p. race bred engine gives you top end performance with acceleration to match. This lightweight will take some beating. So will the advanced features. Competition forks, racing seat, 12 volt electrics, twin leading shoe front brake, all-steel tank with fitted knee grips and Q.D. rear wheel. That's Starfire—the lightweight with the big punch.

If you're looking for extra power with greater flexibility at lower r.p.m., **the 441 c.c. Shooting Star** is your kind of machine. And its attraction doesn't stop there. Specification includes built-up crankshaft assembly, forged steel flywheels, roller bearing big end and forged steel H-section connecting rod.

Its brother is the **441 Victor Special**; production version of the world famous champion. The Moto Cross World Championship proved that. Victor won it. Twice in a row. And if that isn't proof enough, John Banks, British Moto Cross Champion in 1969, also won the 1969 B.B.C. Grandstand Trophy and the I.T.V. World of Sport Series on a Victor. So **you** can expect some pretty smooth riding over the rough stuff, and some advanced features to go with it. Competition tank, square finned alloy cylinder barrel, upswept exhaust system and competition tested forks.



Top gear	6.92	5.14	5.36
Third gear	8.6	6.42	6.70
Second gear	11.4	8.47	8.84
First gear	19.2	13.6	14.20
Chain (front)	$\frac{3}{8}$ " Duplex	$\frac{3}{8}$ " Duplex	$\frac{3}{8}$ " Duplex
Chain (rear)	$\frac{3}{8}$ " x $\frac{1}{4}$ "	$\frac{3}{8}$ " x $\frac{1}{4}$ "	$\frac{3}{8}$ " x $\frac{1}{4}$ "

BRAKES

Dia. front, in. (cm.)	2LS, 7 (17.78)	2LS, 7 (17.78)	8 (20.32)
Dia. rear, in. (cm.)	7 (17.78)	7 (17.78)	7 (17.78)

DUNLOP TYRES

Size (front)	3.25 x 18	3.25 x 18	3.25 x 18
Size (rear)	3.50 x 18	3.50 x 18	4.00 x 18

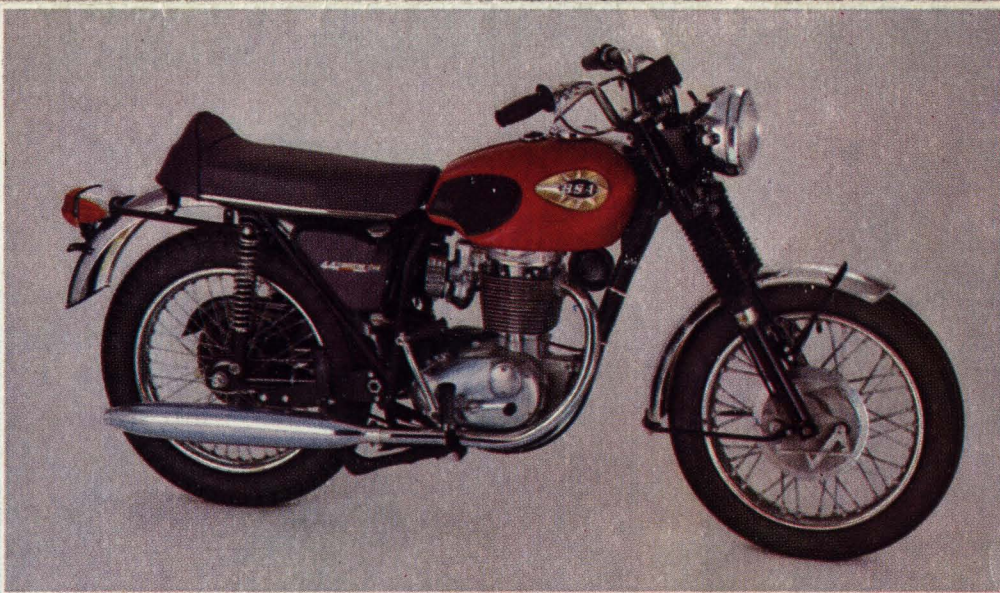
ELECTRICAL

Battery	10 a.h.	10 a.h.	10 a.h.
Headlamp dia., in. (cm.)	7 (17)	7 (17)	6 (15.2)
Voltage	12	12	12
Meter	Ammeter	Ammeter	—

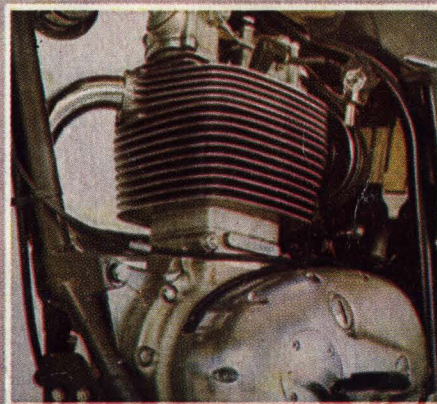
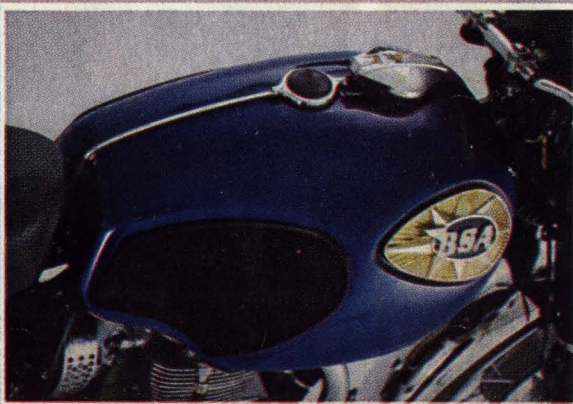
MISCELLANEOUS

Fuel, galls. (litres)	3 $\frac{1}{2}$ (14)	3 $\frac{1}{2}$ (14.7)	1 $\frac{1}{2}$ (8)
Oil, pints (litres)	5 (3)	5 (3)	5 (3)
Seat height, in. (cm.)	31 (79)	31 (79)	32 (81.3)
Width, in. (cm.)	28 (70)	28 $\frac{1}{2}$ (72)	28 $\frac{1}{2}$ (72)
Length, in. (cm.)	83 (211)	83 $\frac{1}{2}$ (211.5)	83 $\frac{1}{2}$ (211.5)
Clearance (unladen)	7 (17.8)	7 (17.8)	7 $\frac{1}{2}$ (19)
Weight, lb. (kilos)	310 (140)	342 (155)	310 (140)
Warning lights	Oil pressure	—	—
	Main beam	Main beam	Main beam
Instruments	Speedometer (120 mph or 190 km/h)	Speedometer (120 mph or 190 km/h)	Speedometer (150 mph or 250 km/h)

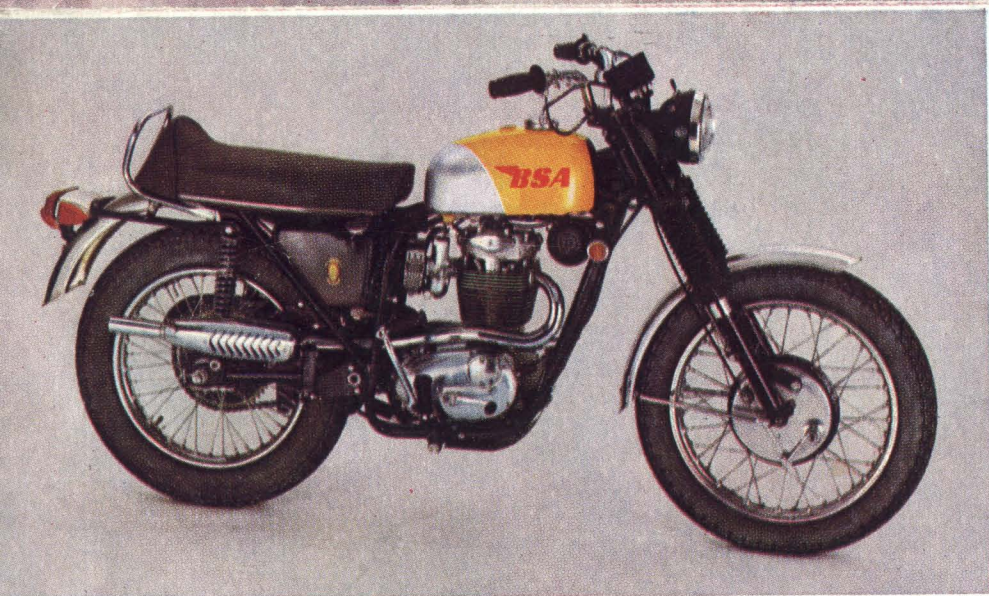
250 c.c. STARFIRE



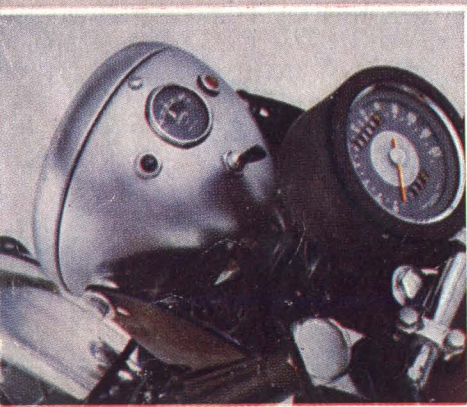
441 c.c. SHOOTING STAR



go with it. Competition tank
cylinder barrel, upswept exhaust system and competition
rested forks.



441 c.c. VICTOR SPECIAL



Stylish petrol tank fitted to Starfire and Shooting Star models, deep section knee grips are fitted for rider comfort.

The distinctive square finned alloy cylinder barrel fitted to all single cylinder models.

Separate chromium plated sports headlamp of 7 in. dia. fitted to Starfire and Shooting Star. Victor Special carries smaller 6 in. diameter black enamelled unit.



Go follow the Sun Go BSA

Leave the traffic trailing. Find your own sunspot with go-anywhere thoroughbreds from B.S.A. Take the **500 c.c. Royal Star**. In its class, one of the zippiest touring machines ever made. Test its potent engine over the roughest roads. You'll leave lesser machines struggling. And get a kick out of Royal Star's standard equipment: 12 volt electrics with twin coil ignition, 26 mm. Amal carb, 8 in. twin leading shoe front brake, 150 m.p.h. speedo, separate sports headlamp and oil pressure warning system.

Step up to the **650 c.c. Thunderbolt**. It's a rugged powerhouse that's made to take punishment from the meanest roads. And it's got the extras to win you envious looks. Blade mudguards, balanced exhaust system, racing seat, oil pressure warning system, 8 in. twin leading shoe front brake and rubber gaitered front forks.

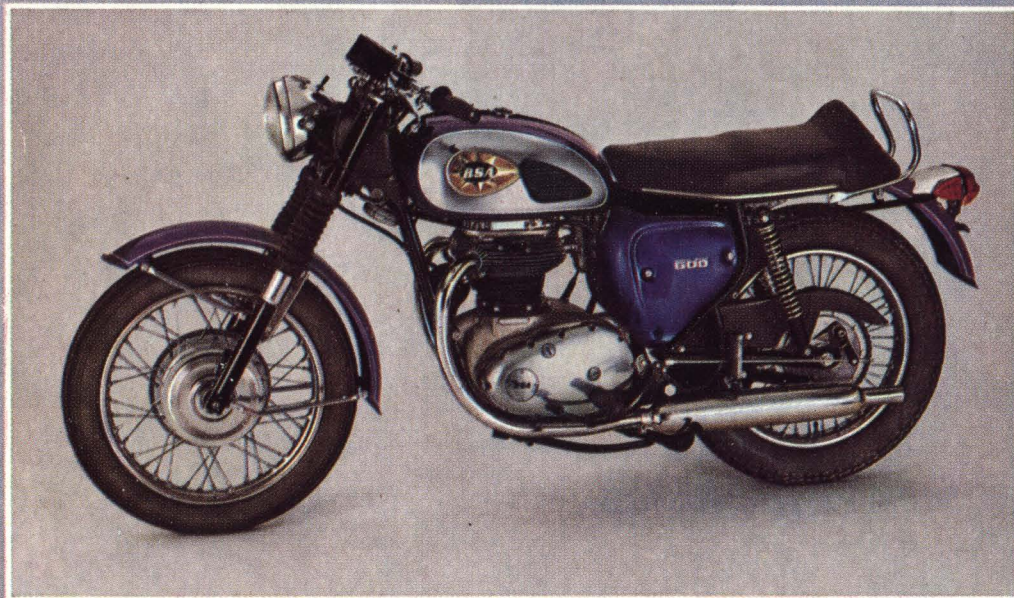
Take it easy when you take out the **650 c.c. Lightning**. After all, you're amongst the big boys now. And the action starts from the word 'go'. Fantastic acceleration puts you in front and sustained power keeps you there. Shimmering looks match the performance and standard equipment includes rubber mounted speedo and tacho, twin horns, oil pressure warning system, twin leading shoe front brake and two-way front fork damping.

SA

pot with
Take the
zippiest
t engine
achines
standard
ignition,
nt brake,
o and oil
system.

a rugged
from the
win you
exhaust
system,
d rubber
nt forks.

htning.
And the
eleration
ou there.
standard
d tacho,
leading
amping.



500 c.c. ROYAL STAR

MODEL	500 c.c. Royal Star A50	650 c.c. Thunder- bolt A65 T	650 c.c. Lightning A65 L
-------	----------------------------------	---------------------------------------	--------------------------------

ENGINE

Bore, mm. (in.)	65.5 (2.58)	75 (2.95)	75 (2.95)
Stroke, mm. (in.)	74 (2.91)	74 (2.91)	74 (2.91)
Capacity, c.c. (cu. in.)	499 (30.45)	654 (39.91)	654 (39.91)
Compression ratio	9 : 1	9 : 1	9 : 1
Valves	O.H.V.	O.H.V.	O.H.V.
Ignition	Twin coil	Twin coil	Twin coil
Carburettors	One	One	Two

TRANSMISSION

Sprockets:

Engine	28	28	28
Clutch	58	58	58
Gearbox	18	20	20
Rear wheel	47	47	47
Top gear	5.41	4.87	4.87
Third gear	6.2	5.58	5.58
Second gear	8.67	7.8	7.8
First gear	13.6	12.27	12.27
Chain (front)	$\frac{3}{8}$ " Triple	$\frac{3}{8}$ " Triple	$\frac{3}{8}$ " Triple
Chain (rear)	$\frac{3}{8}$ " x $\frac{3}{8}$ "	$\frac{3}{8}$ " x $\frac{3}{8}$ "	$\frac{3}{8}$ " x $\frac{3}{8}$ "

BRAKES

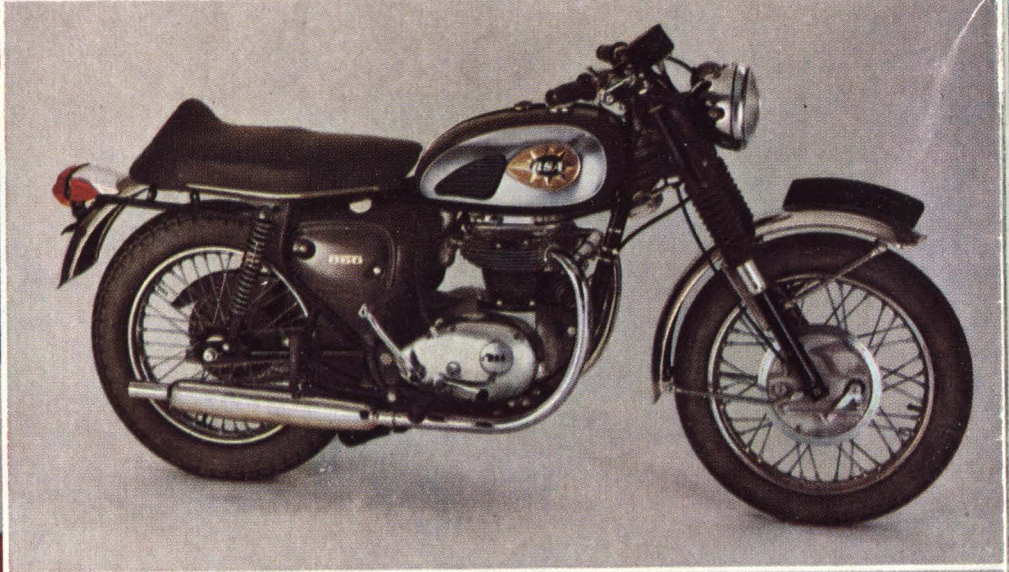
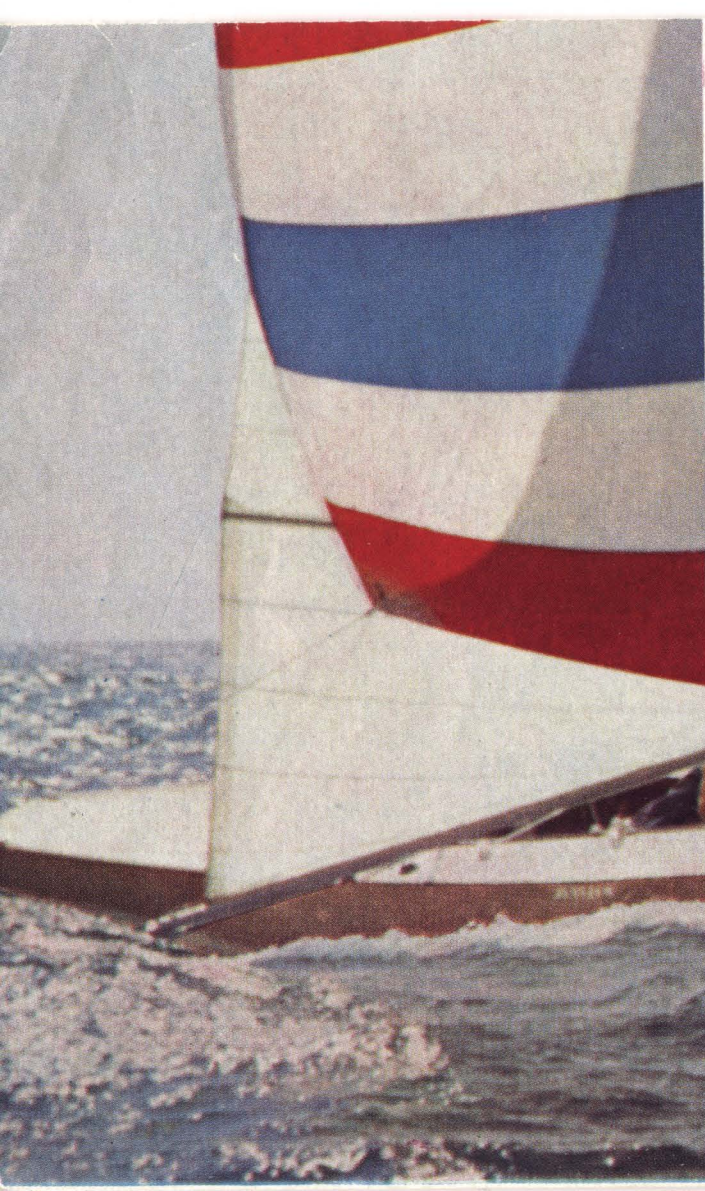
Dia. front, in. (cm.)	2LS, 8 (20.32)	2LS, 8 (20.32)	2LS, 8 (20.32)
Dia. rear, in. (cm.)	7 (17.78)	7 (17.78)	7 (17.78)

DUNLOP TYRES

Size (front)	3.25 x 19	3.25 x 19	3.25 x 19
Size (rear)	4.00 x 18	4.00 x 18	4.00 x 18

ELECTRICAL

Battery	10 a.h.	10 a.h.	10 a.h.
Headlamp dia., in.			

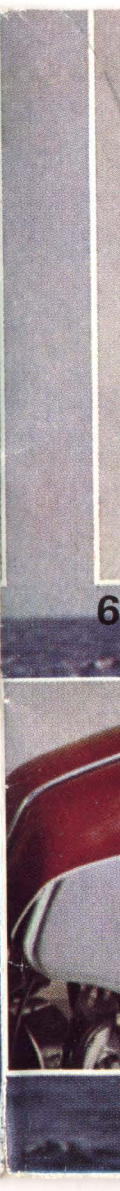
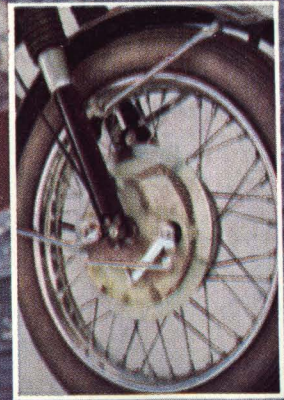


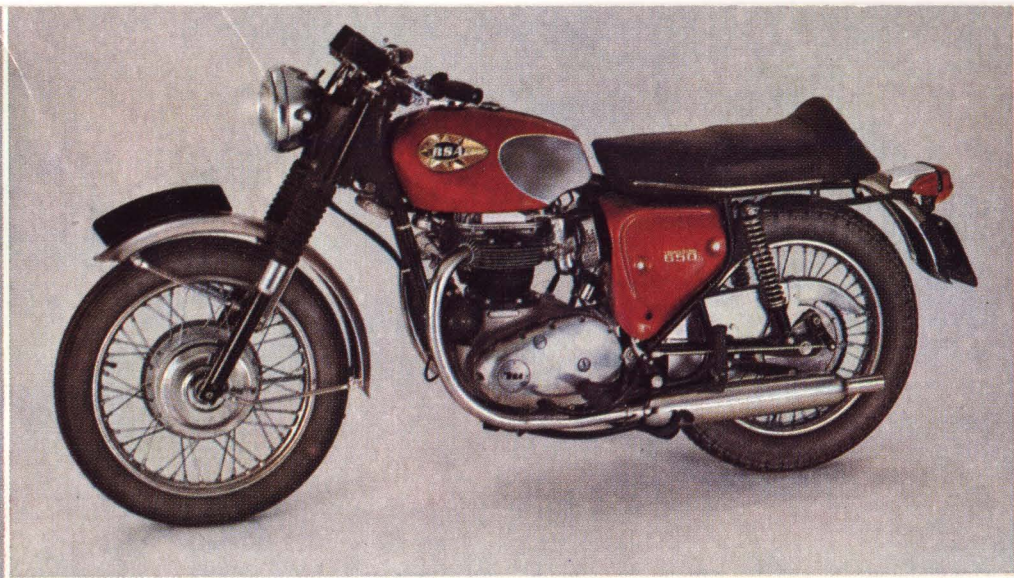
650 c.c. THUNDERBOLT

Race proved pattern 8 in. dia. twin leading shoe front brakes fitted to all 500, 650, and 750 c.c. models.

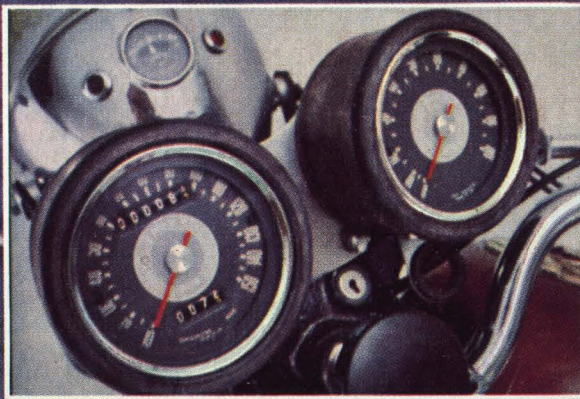
Lightning and Firebird Scrambler now feature this stylish new all-steel fuel tank fitted with quick action filler.

Matching speedo and tachometer clocks (Lightning and Firebird) are mounted at fork top. Ammeter (not Firebird), lighting controls, ignition, and oil pressure warning lights are incorporated into headlamp shell to provide compact instrument layout.





650 c.c. LIGHTNING



(cm.)	/(17)	/(17)	/(17)
Voltage	12	12	12
Meter	Ammeter	Ammeter	Ammeter

MISCELLANEOUS

Fuel, galls. (litres)	4 (18)	4 (18)	3½ (14.7)
Oil, pints (litres)	5 (3)	5 (3)	5 (3)
Seat height, in. (cm.)	32 (81.3)	32 (81.3)	32 (81.3)
Width, in. (cm.)	28 (70)	28 (70)	28 (70)
Length, in. (cm.)	85½ (216)	85½ (216)	85½ (216)
Clearance (unladen)	7½ (19)	8½ (21.6)	8½ (21.6)
Weight, lb. (kilos)	402 (182)	402 (182)	406 (184)
Warning lights	Oil pressure Main beam	Oil pressure Main beam	Oil pressure Main beam
Instruments	Speedo- meter (150 mph or 250 km/h)	Speedo- meter (150 mph or 250 km/h)	Speedo- meter (150 mph or 250 km/h) Tacho- meter (10,000 rpm)



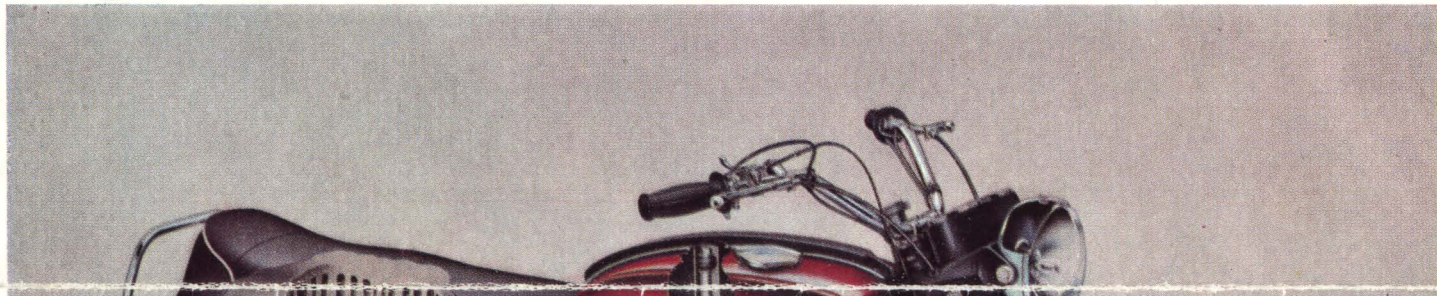
Rocket 3

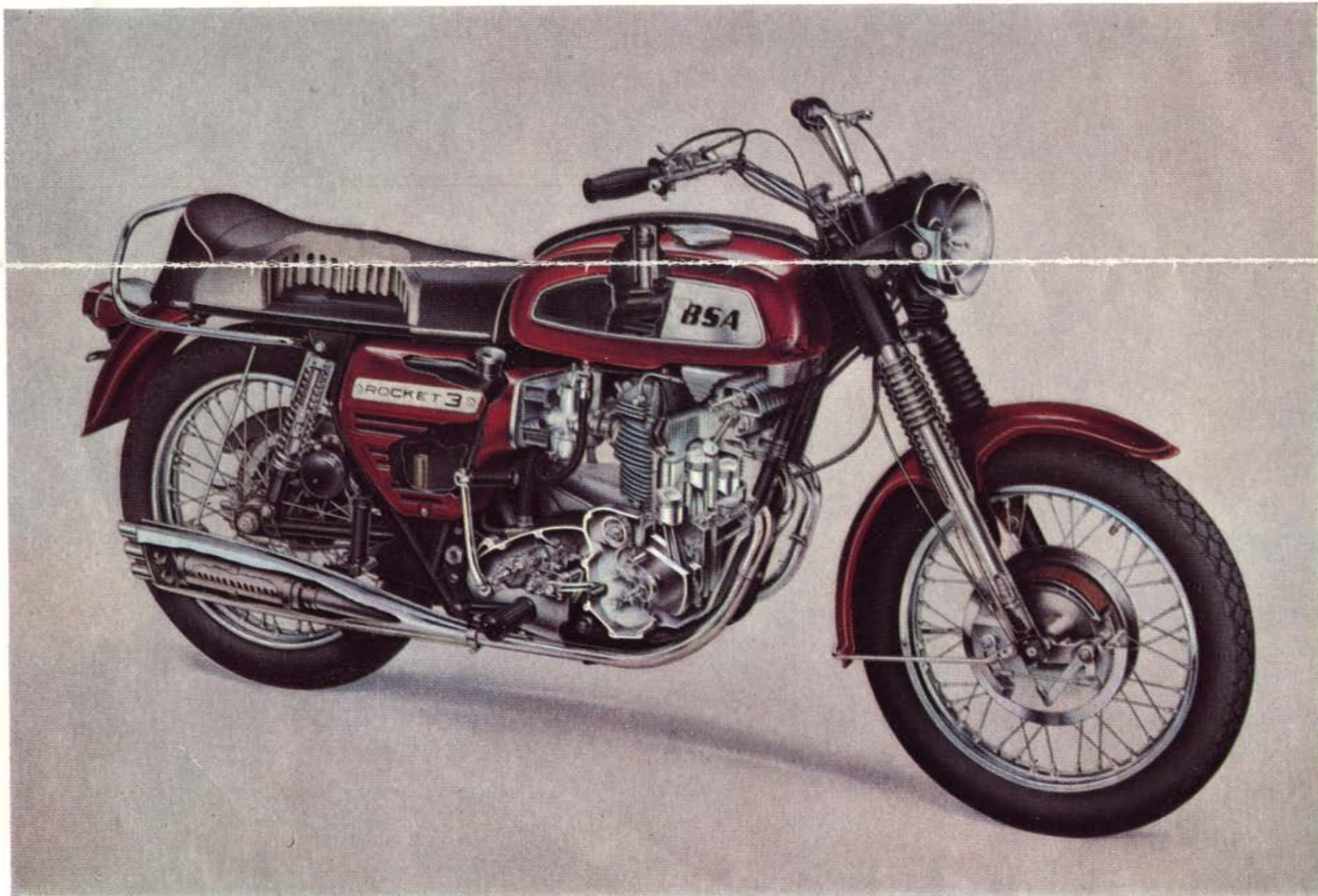
650 c.c. FIREBIRD

This is the one that sets new standards in on or off the road performance. A machine to take on—and lick—the best of the rest. You'll be amazed at the gutsy performance. Compression ratio is 9 to 1. Timed crossover pipes are upswept for maximum clearance and sporting good looks. Carbs are big for clean acceleration. If you're looking for a 'special' that's got everything—the Firebird is for you.

Your B.S.A. **Rocket 3** will take you there. And how! It's more than the fastest, sleekest, most powerful machine you've ever ridden. It's a dramatic new experience in performance, handling and appearance.

But don't take our word for it. Look what 'Car' magazine said. "From standstill to 100 m.p.h. takes one quarter mile and little more than 14 seconds. This is the sort of acceleration that will pin down a Miura and leave Elans gasping". Turbine smooth power—the hallmark of this machine, not just a high top speed, but power in reserve and tremendous torque in all gears. Rocket 3 is a true thoroughbred—the big one you've been waiting for.





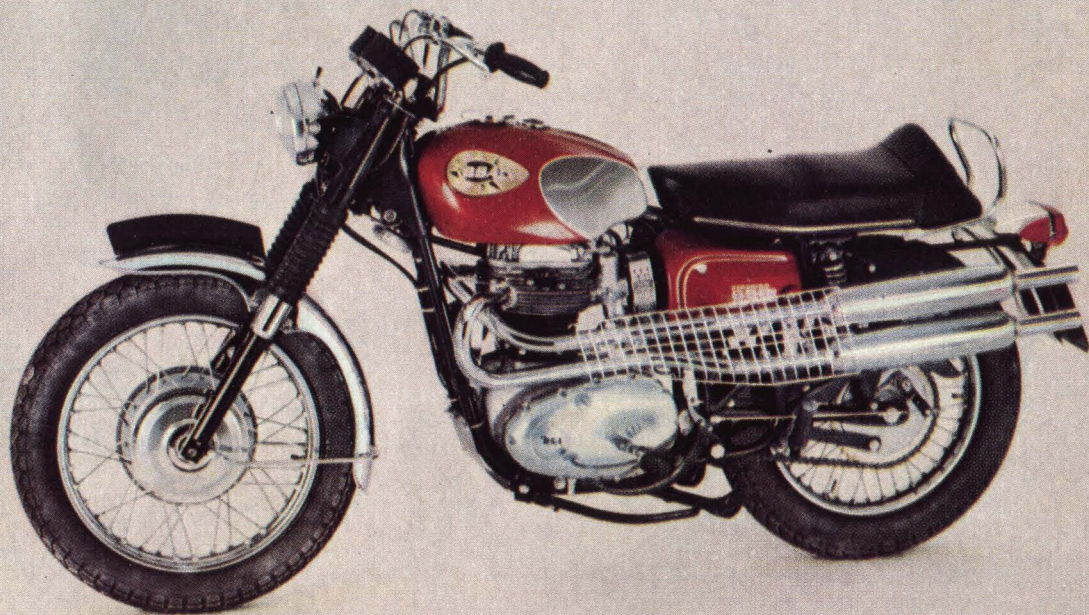
750 c.c. ROCKET 3

Instrumentation on the Rocket 3 is neatly housed in a special "shock" proof binnacle for "at a glance" readings.

The Rocket 3 power plant illustration shows the unique exhaust manifold and oil cooling radiator.

Notice the compact layout making for easy routine maintenance.

The big 4 gallon tank has been specially styled with a striking new name plate—generous knee grips and a quick action filler cap.



650 c.c. FIREBIRD

	650 c.c. Firebird Scrambler A65 FS	750 c.c. Rocket 3 A75
--	---	-----------------------------

ENGINE

Bore, mm. (in.)	75 (2.95)	67 (2.64)
Stroke, mm. (in.)	74 (2.91)	70 (2.75)
Capacity, cc. (cu. in.)	654 (39.91)	740 (46.2)
Compression ratio	9 : 1	9.5 : 1
Valves	O.H.V.	O.H.V.
Ignition	Twin coil	Triple coil
Carburettors	Two	Three

TRANSMISSION

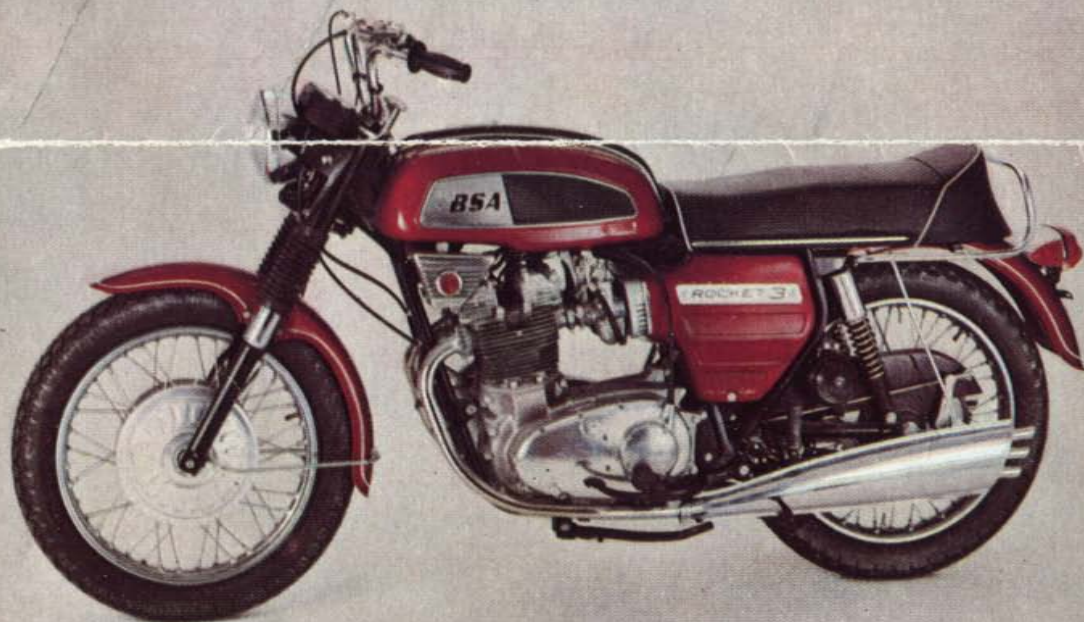
Sprockets:

Engine	28	28
Clutch	58	50
Gearbox	18	19
Rear wheel	47	53
Top gear	5.41	4.98
Third gear	6.2	6.17
Second gear	8.67	8.42
First gear	13.6	12.15
Chain (front)	$\frac{3}{8}$ " Triple	$\frac{3}{8}$ " Triple
Chain (rear)	$\frac{3}{8}$ " x $\frac{3}{8}$ "	$\frac{3}{8}$ " x $\frac{3}{8}$ "

BRAKES

Dia. front, in. (cm.)	2LS, 8 (20.32)	2LS, 8 (20.32)
Dia. rear, in. (cm.)	7 (17.78)	7 (17.78)

DUNLOP TYRES



750 c.c. ROCKET 3

Di. rear, in. (cm.)	7 (17.78)	7 (17.78)
---------------------	--------------	--------------

DUNLOP TYRES

Size (front)	3.50 x 19	3.25 x 19
Size (rear)	4.00 x 18	4.10 x 19

ELECTRICAL

Battery	10 a.h.	10 a.h.
Headlamp dia., in. (cm.)	6 (15.2)	7 (17)
Voltage	12	12
Meter	—	Ammeter

MISCELLANEOUS

Fuel, galls. (litres)	2½ (11½)	4 (18)
Oil, pints (litres)	5 (3)	5 (3)
Seat height, in. (cm.)	32 (81.3)	32 (81.3)
Width, in. (cm.)	33½ (85)	32½ (82.5)
Length, in. (cm.)	85 (215)	88 (223.5)
Clearance (unladen)	8 (20.3)	7 (17.8)
Weight, lb. (kilos)	408 (185)	465 (210)
Warning lights	Oil pressure Main beam	Oil pressure Main beam
Instruments	Speedometer (150 mph or 250 km/h) Tachometer (10,000 rpm)	Speedometer (150 mph or 250 km/h) Tachometer (10,000 rpm)





BSA MOTORCYCLES LTD

ARMOURY ROAD BIRMINGHAM 11 ENGLAND

Telephone 021 772 2381 Telegrams 'Selmoto' Birmingham England

