



# BSA

## SPEED & SPORTS PARTS



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### HOW TO IMPROVE C15-S ENGINE PERFORMANCE

The engine performance can be improved on 1960-61-62 C15 Starfires by installing oversize valves, racing valve springs, alloy valve collars, induction spacer and oversize carburetor as listed below.

<u>QUANTITY</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>LIST PRICE</u>
1	389/8	1-1/8" Monobloc Carb.	\$ 33.00 A
1	65-2562	Spacer - 1" Carb. to Cyl. Head	4.68 A
2	40-127	Studs	ea. .18 A
2	2-49	Nuts	ea. .06 A
2	24-8784	Washers	ea. .03 A
3	65-1417	Gaskets	ea. .02 A
1	65-1419	Fiber Spacer	.24 A
1	68-0156	Inlet Valve - Oversize	4.32 A
1	B-617	Exhaust Valve - Oversize	8.34 B
2 pr.	B-613	Racing Valve Springs	ea. 2.55 B
2	67-1349	Alloy Valve Collars	ea. 1.92 A
2 pr.	65-1848	Valve Collar Keepers	ea. 1.92 A
1	65-209	Exhaust Valve Cap	.30 A

It will be necessary to modify the cylinder head as follows:

1. Increase the inside diameter of the inlet valve port to 1-3/8".
2. Increase the intake port at the carb. mounting flange to 1-1/8" straight through maximum.
3. Increase the inside diameter of the exhaust valve port to 1-3/16".
4. Blend in the diameters and streamline the inlet and exhaust ports with a burring tool.
5. Polish both ports and the combustion chamber to a mirror finish.
6. Bore out and polish the induction spacer to match up with cylinder head and carburetor.
7. The inlet valve seat should be 1/16" wide and the exhaust 3/32" wide.
8. Grind the valves in with fine grinding compound.
9. Shim the valve springs to a height of 1-5/16".
10. Cut away the pockets in the pistons to provide clearance for the larger valves.

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(PRICES SHOWN ARE SUBJECT TO  
CHANGE WITHOUT NOTICE)

