

THE AUTOMOBILE COMPETITION COMMITTEE  
FOR THE UNITED STATES, FIA INC.  
515 MADISON AVENUE  
NEW YORK 22, N. Y.

TEL: Eldorado 5-0900

CABLE: ACCUSFIA NEW YORK

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Form of Recognition in accordance with Appendix J to the International Sporting Code.

Manufacturers Reference No. for

Application 2000

F.I.A. Recognition No. 79

Manufacturer Shelby American, Inc.

Model Cobra Year of Manufacture 1962-63

Serial No. of Chassis starts with CSX 2000

Engine starts with No. not assigned

Type of Bodywork Roadster

Recognition is valid from 8 OCT. 1962 In Category Touring  
or Grand Touring X

ORIGINAL COPY, BEARING THE  
FIA RECOGNITION No. 79, DATED 8 OCT. 1962  
AND THE FIA STAMP AND SIGNATURE, WAS  
RETURNED TO SHELBY AMERICAN, INC. BY  
THIS OFFICE ON NOV. 7, 1962

AUTOMOBILE COMPETITION COMMITTEE  
FOR THE UNITED STATES FIA, INC.  
515 MADISON AVENUE  
NEW YORK 22, N. Y.

*George C. Rand*

4279 cc  
ENGINE  
(260 cu. in.)

(Photograph to be affixed here 3/4 view of car from front left.)



Stamp of ACCUSFIA, INC.  
to be affixed here.

Stamp of F.I.A. to be  
affixed here.

Signed

*George C. Rand*  
Sec'y

General description of car: (specifying materials of Bodywork)

Open roadster with aluminum coachwork over steel tube body frame manufactured by A.C. Cars Ltd. (England). 2-seat passenger compartment, leather interior, Girling disc brakes on all four wheels standard equipment. Standard power plant 260 cubic inch (4.2 liter) engine built by Ford Motor Co.

Photographs to be affixed below:

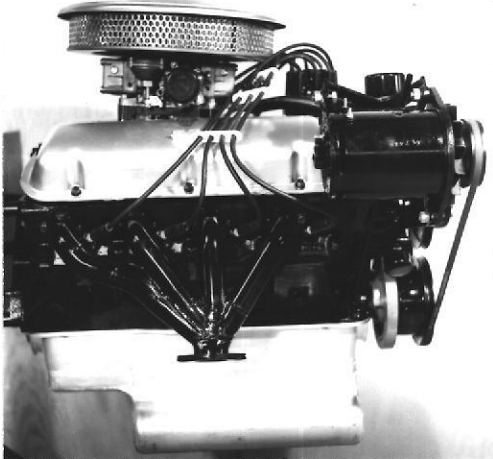
(3/4 view of car from rear left.)



(Interior view of car through driver's door.)

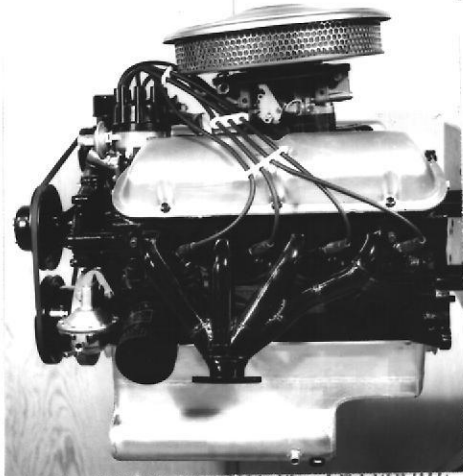


(Engine unit with accessories)



(Front axle complete (without wheels).)

(Engine unit with accessories)



(Front axle complete (without wheels).)

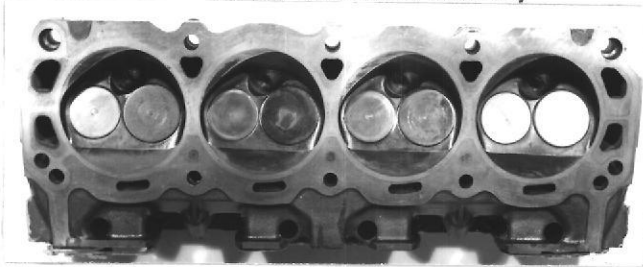


## ENGINE

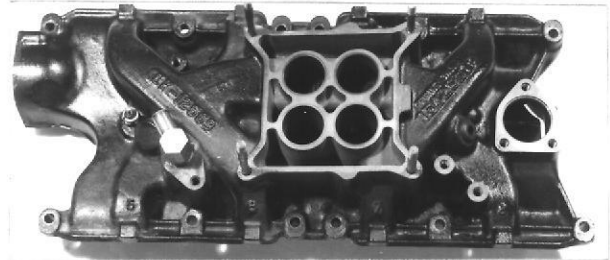
No. of cylinders 8 in line Eight  
 in V Eight  
 opposed Eight  
 Cycle Four Firing order 1-5-4-2-6-3-7-8  
 Capacity 4279.048 c.c. Bore 96.571 m.m. Stroke 73.025 m.m.  
 Maximum rebore 98.105 Resultant capacity 4416.056 c.c.  
 Material of cylinder block Cast iron Material of sleeves, if fitted none  
 Distance from crankshaft center line to top face of block at center line of cylinders 208.432 m.m.  
 Material of cylinder head Cast iron Volume of one combustion chamber 56.8cc (49.6 stock) c.c.  
 Compression ratio 11.5-1 No. of piston rings Three  
 Material of piston Aluminum Distance from wrist pin center line to highest point of piston crown 40.640 m.m.  
 Bearings (Crankshaft main bearings: Type Copper lead alloy Dia. 57.15 m.m.)  
 (Connecting rod big end: Type Same as above Dia. 53.975 m.m.)  
 Weights (Flywheel 9.09 kg.)  
 (Crankshaft 16.00 kg.)  
 (Connecting rod 593 xggrams)  
 (Piston with rings 570.3 xggrams)  
 (Wrist pin 142.6 xggrams)  
 No. of valves per cylinder two Method of valve operation rocker arms  
 No. of camshafts one Location of camshafts between cyls.  
 Type of camshaft drive chain  
 Diameter of valves: Inlet 46.812 m.m. Exhaust 41.275 m.m.  
 Diameter of port at valve seat: Inlet 44.196 m.m. Exhaust 38.837 m.m.  
 Tappet clearance for checking timing: Inlet .3 m.m. Exhaust .8 m.m.  
 Valves open: Inlet 280 BTC Exhaust 72°BBC  
 Valves close: Inlet 72°ABC Exhaust 280°ATC  
 Maximum valve lift: Inlet 10.7 m.m. Exhaust 10.7 m.m.  
 Degrees of crankshaft rotation from zero to with .000 mm taper clearance  
 Maximum lift: ~~camshaft~~ Inlet 112° Exhaust 248°  
 3/4 Maximum lift: Inlet 50° Exhaust 186°  
 Valve springs: Inlet Exhaust  
 Type Coil Coil  
 \*No. per valve One & Damper \* One & Damper  
 Carburetor: Type Downdraft No. fitted 1  
 (up or down draft, horizontal)  
 Make Holley Model Four throat  
 Flange hole diameter 39.62-39.62\*\* m.m. Choke diameter 21.7 m.m.  
 Main jet identification No. prim. 78, second 66  
 \*Dual spring - no damper  
 \*\* 39.62 primary, 39.62 secondary

Air filter: Type Dry No. fitted One  
Inlet manifold:  
Diameter of flange hole at carburetor 39.675 mm & 42.850 m.m.  
Diameter of flange hole at port 29.362 mm & 50.800 m.m.

(Photograph of combustion chamber  
to be affixed here.)

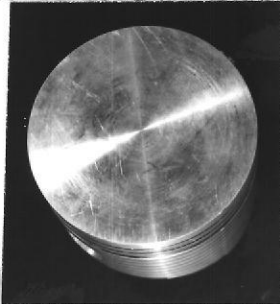


(Photograph of inlet manifold  
to be affixed here.)

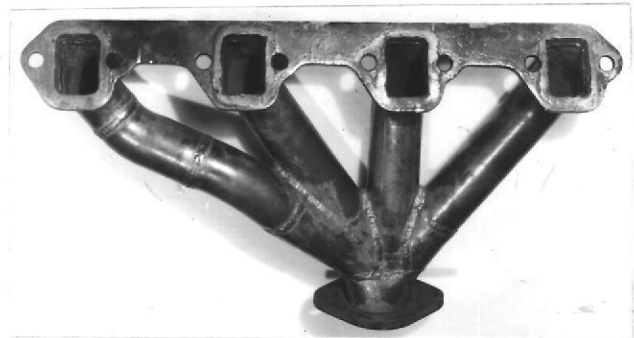


Exhaust manifold:  
Diameter of flange hole at port 30.480 mm & 36.500 m.m.  
Diameter of flange hole at connection to muffler inlet pipe 50.800 m.m.

(Photograph of piston showing  
crown to be affixed here.)



(Photograph of exhaust manifold  
to be affixed here.)



#### ENGINE ACCESSORIES

Make of fuel pump AC No. fitted One  
Method of operation Mechanical  
Type of ignition system Coil coil or magneto  
Make of ignition Ford Model C 20F 12127  
Method of advance and retard Centrifugal  
Make of ignition coil Ford Model FAC-12029-A  
No. of ignition coils One Voltage 12-1.6 OHM Ext. res.  
Make of generator Lucas Model 12 volt  
Voltage of generator 15 Maximum output 30 amps.  
Make of starter motor Ford Model C2AF 11001-B  
Battery: No. fitted One Voltage 12 Capacity 70 amp. hour

## TRANSMISSION

Make of clutch Long Type Dry Plate  
 Diameter of clutch plate \_\_\_\_\_ No. of plates one  
 Method of operating clutch Foot actuated  
 Make of gearbox Borg Warner Type Helical Synchromesh  
 No. of gearbox ratios Four  
 Method of operating gearshift Lever  
 Location of gearshift Center tunnel  
 Is overdrive fitted? no  
 Method of controlling overdrive, if fitted \_\_\_\_\_

Speed	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1st.	<u>2.36:1</u>	<u>36-17</u>						
2nd.	<u>1.78:1</u>	<u>32-20</u>						
3rd.	<u>1.41:1</u>	<u>29-23</u>						
4th.	<u>1.00:1</u>	<u>-</u>						
5th.								
Reverse	<u>2.42:1</u>						<u>3</u>	

Type of final drive Hypoid  
 Type of differential Limited - slip  
 Final drive ratio 3.54:1 Alternatives 2.72 2.92 3.03  
 No. of teeth 9 & 32 3.30 3.77 4.1 4.56  
 Overdrive ratio, if fitted \_\_\_\_\_

## WHEELS

Type Hypoid Wire Weight 16.5# kg.  
 Method of attachment 52 mm spline & nut  
 Rim diameter 381 m.m. Rim width 165 m.m.  
 Tire size: Front 6.00-6.40/15 Rear 6.50-6.70/15

## BRAKES

Method of operation Hydraulic  
 Is servo assistance fitted? no  
 Type of servo, if fitted -  
 No. of hydraulic master cylinders one Bore 22.2 m.m.



	Front		Rear
No. of wheel cylinders	<u>Two</u>		<u>Three</u>
Bore of wheel cylinders	<u>52.3</u> m.m.		<u>1-41.3 2-28.6</u> m.m.
Inside diameter of brake drums		m.m.	
No. of shoes per brake			
Outside diameter of brake discs	<u>295</u> m.m.		<u>279</u> m.m.
No. of pads per brake	<u>two</u>		<u>two</u>

Dimensions of brake linings per shoe or pad (if all shoes or pads in each brake are not of same dimensions, specify each)

	Front		Rear
Length	<u>79.5</u> m.m.		<u>76.2</u> m.m.
		m.m.	
Width	<u>57.2</u> m.m.		<u>44.5</u> m.m.
		m.m.	
Total area per brake	<u>9100</u> m.m. <sup>2</sup>		<u>6780</u> m.m. <sup>2</sup>

#### SUSPENSION

	Front		Rear
Type	<u>Independent</u>		<u>Independent</u>
Type of spring	<u>Semi-elliptic</u>		<u>Semi-elliptic</u>
Is stabiliser fitted?	<u>Yes</u>		<u>Yes</u>
Type of shock absorber	<u>Hydraulic</u>		<u>Hydraulic</u>
No. of shock absorbers	<u>Two</u>		<u>Two</u>

#### STEERING

Type of steering gear	<u>Worm and Sector</u>
Turning circle of car	<u>10.4</u> m., approx.
No. of turns of steering wheel from lock to lock	<u>2</u>

#### CAPACITIES AND DIMENSIONS

Fuel tank	<u>63</u> litres	Sump	<u>9</u> litres
Radiator	<u>17</u> litres		
Overall length of car	<u>385</u> cm.	Overall width of car	<u>155</u> cm.
Overall height of car, unladen (with top up, if appropriate)			cm.
Distance from floor to top of windshield:			
Highest point	<u>81.0</u> cm.	Lowest point	<u>73.5</u> cm.
Width of windshield:			
Maximum width	<u>130</u> cm.	Minimum width	<u>122</u> cm.
*Interior width of car	<u>124.5</u> cm.		
No. of seats	<u>two</u>		
Track: Front	<u>131</u> cm.	Rear	<u>133</u> cm.
Wheelbase	<u>228</u> cm.	Ground clearance	<u>177</u> m.m.
Overall weight with water, oil and spare wheel, but without fuel	<u>920</u> kgs.		

\*(To be measured at the immediate rear of the steering wheel, and the width quoted to be maintained in a vertical plane of not less than 25 cms.)

Additional information for cars fitted with two-cycle engines only:

System of cylinder scavenging \_\_\_\_\_

Type of lubrication \_\_\_\_\_

Size of inlet port:

Length measured around cylinder wall \_\_\_\_\_ m.m.<sup>2</sup>

Height \_\_\_\_\_ m.m. Area \_\_\_\_\_ m.m.<sup>2</sup>

Size of exhaust port:

Length measured around cylinder wall \_\_\_\_\_ m.m.<sup>2</sup>

Height \_\_\_\_\_ m.m. Area \_\_\_\_\_ m.m.<sup>2</sup>

Size of transfer port:

Length measured around cylinder wall \_\_\_\_\_ m.m.<sup>2</sup>

Height \_\_\_\_\_ m.m. Area \_\_\_\_\_ m.m.<sup>2</sup>

Size of piston port:

Length measured around piston \_\_\_\_\_ m.m.<sup>2</sup>

Height \_\_\_\_\_ m.m. Area \_\_\_\_\_ m.m.<sup>2</sup>

Method of pre-compression \_\_\_\_\_

Bore and stroke of pre-compression cylinder, if fitted \_\_\_\_\_ m.m.

Distance from top of cylinder block to lowest point of inlet port \_\_\_\_\_ m.m.

Distance from top of cylinder block to highest point of exhaust port \_\_\_\_\_ m.m.

Distance from top of cylinder block to highest point of transfer port \_\_\_\_\_ m.m.

Drawing of cylinder ports.

Supercharger, if fitted

Make \_\_\_\_\_

Type of drive \_\_\_\_\_

Model or Type No. \_\_\_\_\_

Ratio of drive \_\_\_\_\_

Fuel injection, if fitted

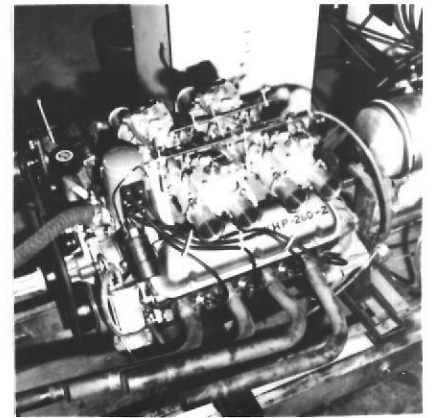
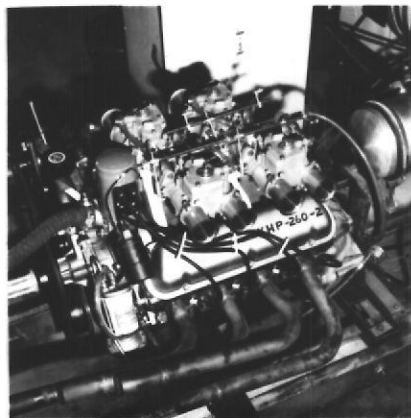
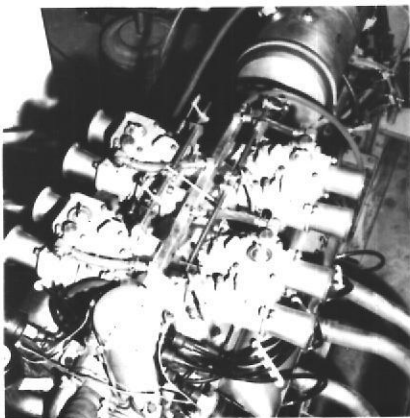
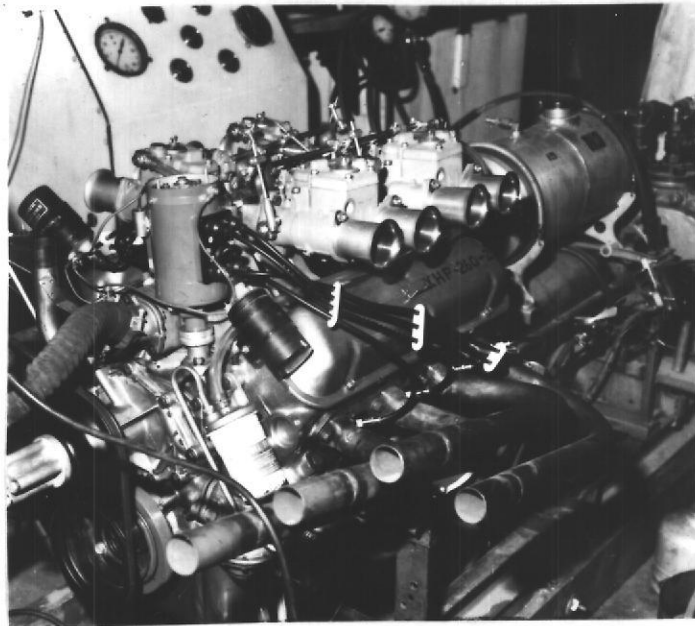
Make of pump \_\_\_\_\_

Make of injectors \_\_\_\_\_

Model or Type No. \_\_\_\_\_

Model or Type No. \_\_\_\_\_

Location of injectors \_\_\_\_\_



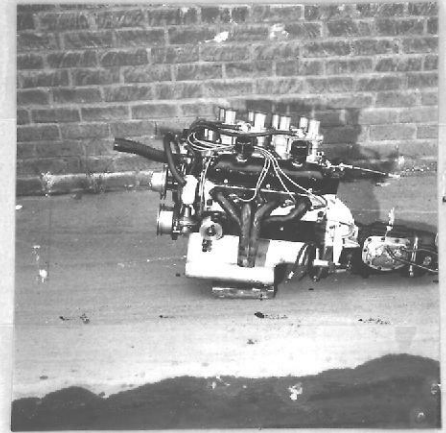
### OPTIONAL CARBURETION MANIFOLD & IGNITION

1. Ram Log Manifold with balance bar
2. Side draft 58 MM Weber carburetors
3. Spaulding flame thrower ignition

*Carroll Shelby*



AUTOMOBILE COMPETITION COMMITTEE  
FOR THE UNITED STATES, INC.  
175 MADISON AVENUE  
NEW YORK 17, N.Y.



AIRMAIL - SPECIAL DELIVERY

March 11, 1963

M. Hubert Schroeder  
Secretary, CSI  
Federation Internationale de l'Automobile  
8 Place de la Concorde  
Paris 8, France

Dear Monsieur Schroeder:

This letter is in reference to the Shelby American "Cobra", manufacturers reference number of application 2000. This model, equipped with the 427cc engine, was homologated in the Grand Touring Category and given FIA Recognition #79 valid from 8th October 1962.

We wish to make an addenda to subject homologation form as follows: Under optional carburetion manifold and ignition, listed on page 8 of the form, Item 2 was approved for the use of side draft 58mm Weber carburetors. As you may recall from our discussions at Daytona, this model carburetor was becoming increasingly difficult to obtain and consequently Shelby American, Inc. have for some months been using Weber downdraft carburetors of 48mm size. We respectfully request that this Weber 48mm downdraft carburetor be added to the optional equipment sheet and we certify the fact that minimum production and installation of this smaller size Weber version have been made by Shelby American, Inc.

Please find enclosed a large photograph showing the carburetor installation for this model Cobra. I have extra photographs which I can affix to our own file copies of subject recognition form.

With kindest regards, I remain

Sincerely yours,

*George C. Rand*  
George C. Rand  
Secretary

GCR:dmc  
Enclosure

cc: Mr. Carroll Shelby  
Shelby American, Inc.  
1042 Princeton Drive  
Venice, California

Name of Manufacturer Shelby American, Inc.

Name of Model Cobra

Manufacturers Reference


No. of Application 2001

I certify that in excess of 100 cars identical with the basic specification stated in this application were completed on 11/30/62. Production commenced on 2/1/62. Cars conforming to this specification may be identified by

Chassis Nos. 2000

Engine Nos. none

SHELBY AMERICAN, INC.

by   
Vice-President

by   
President

AUTOMOBILE COMPETITION COMMITTEE  
FOR THE UNITED STATES FIA, INC.

515 MADISON AVENUE  
NEW YORK 22, N. Y.

George C.eland, Secy.

12-28-62

SHELBY AMERICAN, INC.  
1042 Princeton Drive  
Venice, California

Sept. 11, 1962

Name of Manufacturer - Shelby American, Inc.  
Name of Model - Cobra  
Manufacturer's Reference  
No. of Application - 2000

We certify that in excess of 100 cars identical with the basic specification stated in this application were completed on Oct. 1, 1962. Production commenced on Feb. 1, 1962. Cars conforming to this specification may be identified by Chassis Nos. CSX 2000; Engine Nos. not used.

By Carroll Shelby  
Carroll Shelby  
President

By Warren R. Olson  
Warren R. Olson  
Vice-President

4279 cc  
ENGINE  
260 cu. in.

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