

Manufacturers Reference No. for Application

A.M.5



F.I.A. Recognition No.

59

# ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.1.

## Federation Internationale de l'Automobile.

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

Manufacturer..... ASTON MARTIN

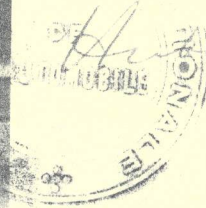
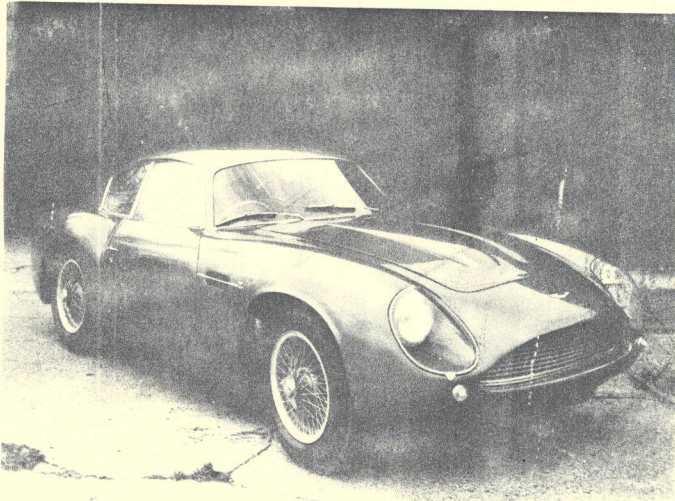
Model..... DBL G.T. ZAGATO Year of Manufacture..... 1961

Serial No. of Chassis..... DBL/GT/0176

Engine..... 370/0001/GT

Type of Coachwork..... ZAGATO 2 door Saloon.

Recognition is valid from..... 3 MAY 1962 In category..... G.T.



*Handwritten signature*

Stamp of F.I.A./R.A.C. to be  
affixed here.

Form: R.F.I.A.

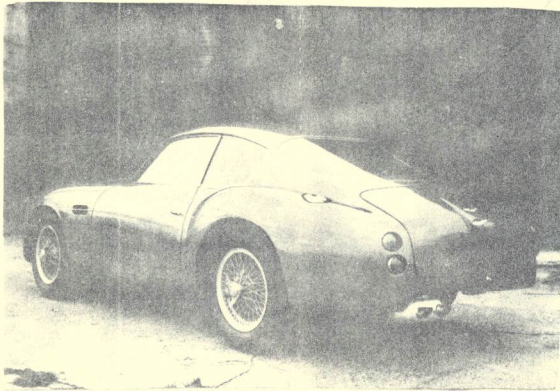
General description of car: Zagato aluminium alloy panelled 2 seater 2 door Saloon body on tubular steel framework in unit with steel chassis frame.

*Specify here material/s of chassis/body construction*

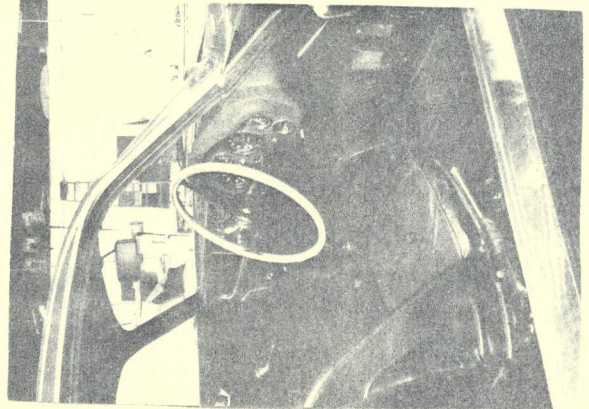
Six cylinder in line twin overhead camshaft seven bearing engine with aluminium alloy cylinder block and head; triple Weber carburettors; Borg and Beck 9.0" diam. twin dry plate hydraulically operated clutch.

David Brown all syn. mesh 4 speed gearbox. Hypoid Bevel Powr-Lok differential, live rear axle. Independent front suspension transverse wishbones; coil spring rear suspension located by Watt linkage. Girling hydraulic disc brakes front & rear; cable hand brake; knock off Borrani wire wheels.

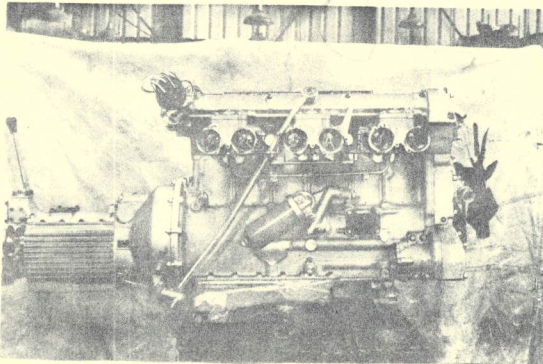
Photographs to be affixed below.



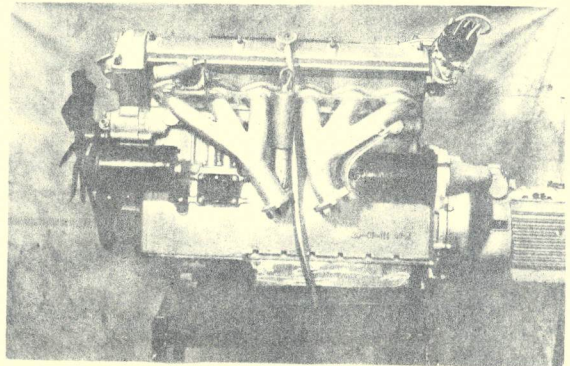
Engine unit with accessories from right.



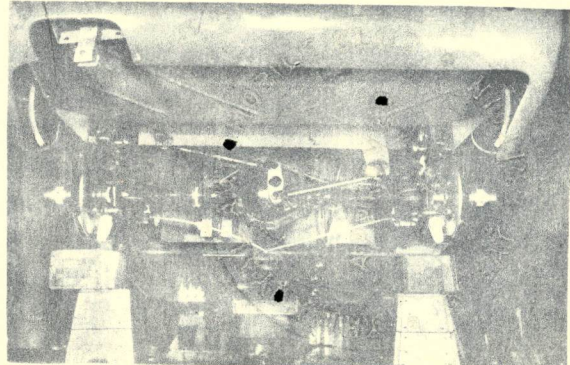
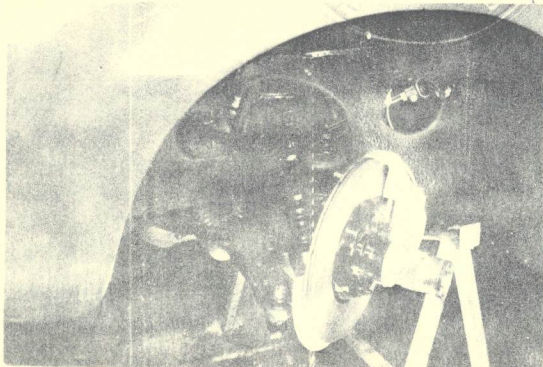
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



# ENGINE

No. of cylinders **6** in line    
 in V    
 opposed

Cycle **4** Firing order **1.5.3.6.2.4.**

Capacity **3670** c.c. Bore **92** m.m. Stroke **92** m.m.

Maximum rebore **93.2** Resultant capacity **3760** c.c.

Material of cylinder block **Aluminium Alloy** Material of sleeves, if fitted **Cast Iron**

Distance from crankshaft centre line to top face of block at centre line of cylinders **266.70** m.m.

Material of cylinder head **Alum. Alloy** Volume of one combustion chamber **132.1** c.c.

Compression ratio **9.7:1**

Material of piston **Aluminium Alloy** No. of piston rings **3**

Distance from gudgeon pin centre line to highest point of piston crown **67** m.m.

Bearings { Crankshaft main bearings: Type **Thin Wall** Dia. **69.85** m.m.   
 Connecting rod big end: Type **Thin Wall** Dia. **57.15** m.m.

Weights { Flywheel **7.45** kg.   
 Crankshaft **29.5** kg.   
 Connecting rod **.879** kg.   
 Piston with rings **.610** kg.   
 Gudgeon pin **.154** kg.

No. of valves per cylinder **2** Method of valve operation **Camshaft direct**

No. of camshafts **2** Location of camshafts **In cylinder head**

Type of camshaft drive **Duplex Roller Chains**

Diameter of valves: Inlet **51.0** m.m. Exhaust **47.63** m.m.

Diameter of port at valve seat: Inlet **48.05** m.m. Exhaust **42.80** m.m.

Tappet clearance for checking timing: Inlet **.23/.28** m.m. Exhaust **.30/.35** m.m.

Valves open: Inlet **47 $\frac{1}{2}$ <sup>o</sup>** BTDC Exhaust **66<sup>o</sup>** BBDC

Valves close: Inlet **69 $\frac{1}{2}$ <sup>o</sup>** ABDC Exhaust **41<sup>o</sup>** ATDC

Maximum valve lift: Inlet **13.02** m.m. Exhaust **13.02** m.m.

Degrees of crankshaft rotation from zero to—

Maximum lift: Inlet **150<sup>o</sup>** Exhaust **150<sup>o</sup>**

$\frac{3}{4}$  Maximum lift: Inlet **88<sup>o</sup>** Exhaust **88<sup>o</sup>**

Valve springs: Inlet Exhaust

Type **Coil** **Coil**

No. per valve **2** **2**

Carburettor: Type **Horizontal** No. fitted **3**   
 (up or down draft, horizontal)

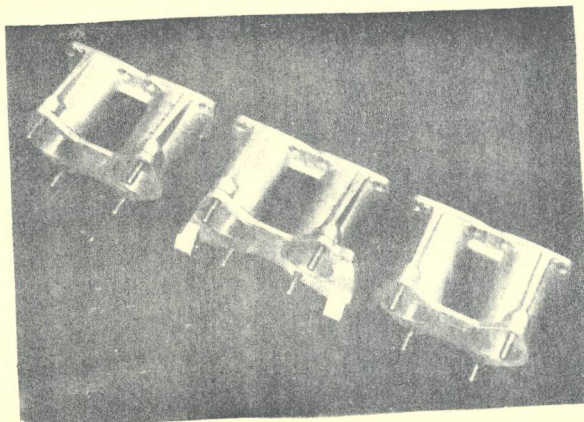
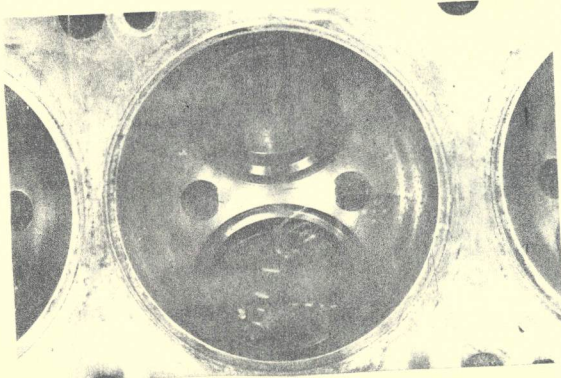
Make **Weber** Model **45 DCOH or 50 DCO**

Flange hole diameter **45 or 50** m.m. Choke diameter **42 or 46** m.m.

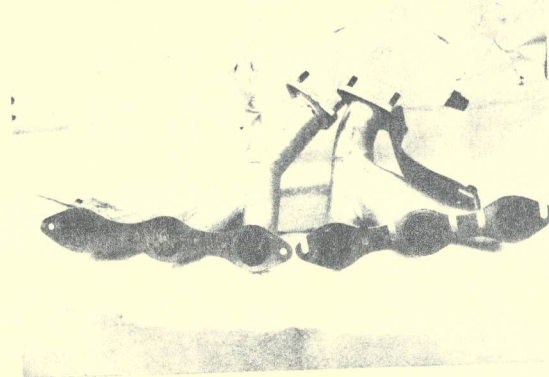
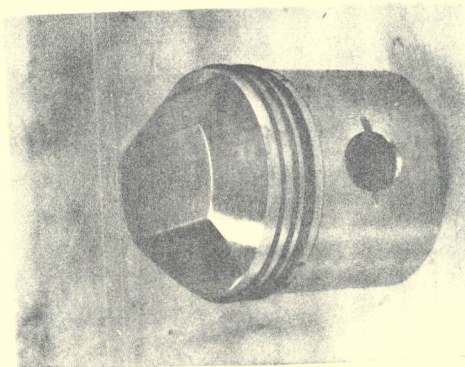
Main jet identification No. **160 or 185**

Air filter: Type Wire mesh at front of air box No. fitted 1

Inlet manifold:  
 Diameter of flange hole at carburettor 45.0 or 50 m.m.  
 Diameter of flange hole at port 43.18 m.m.



Exhaust manifold:  
 Diameter of flange hole at port 41.91 m.m.  
 Diameter of flange hole at connection to silencer inlet pipe 51.87 m.m.



**ENGINE ACCESSORIES**

Make of fuel pump S.U. No. fitted One dual

Method of operation Electrical Solenoid

Type of ignition system Twin coil and distributor coil or magneto

Make of ignition Lucas Model DMBZ6A

Method of advance and retard Centrifugal

Make of ignition coil 2 Lucas (with ballast resistors) Model BA 12

No. of ignition coils 2 Voltage 9

Make of dynamo Lucas Model C 40

Voltage of dynamo 12 Maximum output 22 amps.

Make of starter motor Lucas Model M 45 G

Battery: No. fitted 1 Voltage 12 Capacity 38 amp. hour

Oil Cooler (if fitted) type By-pass Capacity 2 pints

DB4 G.T.

Make ASTON MARTIN Model ZAGATO F.I.A. Recognition No. \_\_\_\_\_  
 Manufacturers Reference No. of Application A.M.5.

**TRANSMISSION**

Make of clutch Borg and Beck Type Dry Plate  
 Diameter of clutch plate 9 in. No. of plates 2  
 Method of operating clutch Hydraulic  
 Make of gearbox David Brown Type All Synchronesh  
 No. of gearbox ratios 4  
 Method of operating gearshift Lever  
 Location of gearshift Centre Floor  
 Is overdrive fitted? No  
 Method of controlling overdrive, if fitted n/a

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	2.49	$\frac{31}{23} \times \frac{37}{20}$	2.92	$\frac{31}{23} \times \frac{39}{18}$				
2.	1.74	$\frac{31}{23} \times \frac{31}{24}$	1.85	$\frac{31}{23} \times \frac{33}{24}$				
3.	1.25	$\frac{31}{23} \times \frac{27}{29}$	1.25	$\frac{31}{23} \times \frac{27}{29}$				
4.	1.00	Direct	1.00	Direct				
5.	-	-	-	-				

Type of final drive Hypoid Bevel  
 Type of differential Powr-Lok Bevel - torque bias.  
 Final drive ratio 3.31:1 Alternatives 2.93 3.54 3.77 4.09  
 No. of teeth 13/43 14/41 13/46 13/49 11/45  
 Overdrive ratio, if fitted Not Applicable

**WHEELS**

Type Wire Weight 7.48 kg.  
 Method of attachment Centre Lock  
 Rim diameter 406.40 m.m. Rim width 127.0 or 139.7 m.m.  
 Tyre size: Front 6.00 x 16 Rear 6.00 x 16

**BRAKES**

Method of operation Foot - Hydraulic (Hand-Cable)  
 Is servo assistance fitted? No  
 Type of servo, if fitted Not applicable  
 No. of hydraulic master cylinders 2 Bore 15.875 m.m.

	Front		Rear
No. of wheel cylinders	4		4
Bore of wheel cylinders	60.325	m.m.	44.449
Inside diameter of brake drums	n/a	m.m.	n/a
No. of shoes per brake	n/a		n/a
Outside diameter of brake discs	307.975	m.m.	293.687
No. of pads per brake	2		2
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	<b>Sector:</b> Outer 117.5		<b>Sector:</b> Outer 97.0	
		m.m.		m.m.
	Inner 68.5		Inner 61.5	
		m.m.		m.m.
Width	<b>Radial</b> 63.5		<b>Radial</b> 50.8	
		m.m.		m.m.
Total area per brake	12050		8110	
		m.m. <sup>2</sup>		m.m. <sup>2</sup>

**SUSPENSION**

	Front		Rear
Type	<b>Independent Transverse Wishbone. Trailing Link.</b>		
Type of spring	<b>Coil</b>		
Is stabiliser fitted?	<b>Yes</b>		
Type of shock absorber	<b>Telescopic Hydraulic</b>		
No. of shock absorbers	2		

**STEERING**

Type of steering gear	<b>Rack and Pinion</b>	
Turning circle of car	9.75	m., approx.
No. of turns of steering wheel from lock to lock	2.8	

**CAPACITIES AND DIMENSIONS**

Fuel tank	140	litres	Sump	11.9	litres
Radiator	15.9	litres			
Overall length of car	430	cm.	Overall width of car	165	cm.
Overall height of car, unladen (with hood up, if appropriate)	127				
Distance from floor to top of windscreen:					
Highest point	92	cm.	Lowest point	62	cm.
Width of windscreen:					
Maximum width	124	cm.	Minimum width	100	cm.
*Interior width of car	127.6				
No. of seats	2				
Track: Front	144.2	cm.	Rear	144.2	cm.
Wheelbase	236.2	cm.	Ground clearance	120	m.m.

\*(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.)

Overall weight with water, oil and spare wheel, but without fuel 1040 kgs.

**Additional information for cars fitted with two-cycle engines**

System of cylinder scavenging.....

Type of lubrication.....

Size of inlet port:

Length measured around cylinder wall..... m.m.

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

Size of exhaust port:

Length measured around cylinder wall..... m.m.

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

Size of transfer port:

Length measured around cylinder wall..... m.m.

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

Size of piston port:

Length measured around piston..... m.m.

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.

**NOT APPLICABLE**

**Supercharger, if fitted**

Make..... Model or Type No.....

Type of drive..... Ratio of drive.....

**Fuel injection, if fitted**

Make of pump..... Model or Type No.....

Make of injectors..... Model or Type No.....

Location of injectors.....

Optional equipment affecting preceding information:—



Manufacturers Reference No. for Application

AMS



F.I.A. Recognition No.

A A

# ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.1.

## Federation Internationale de l'Automobile.

Amendment to Form of Recognition

Manufacturer ASTON MARTIN

Model DB4 G.T. AND DB4 GT ZAGATO

Add to Optional Equipment :

Wheels Boranni Record	16 x 6 $\frac{1}{2}$
" "	16 x 600



Stamp of F.I.A./R.A.C. to be affixed here.

Date amendment is valid from

list 9/24

10/12  
Form R.F.I.B.

*Hubert Schward*

