

Manufacturers Reference No. for Application

A.M. 4



F.I.A. Recognition No.

23

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

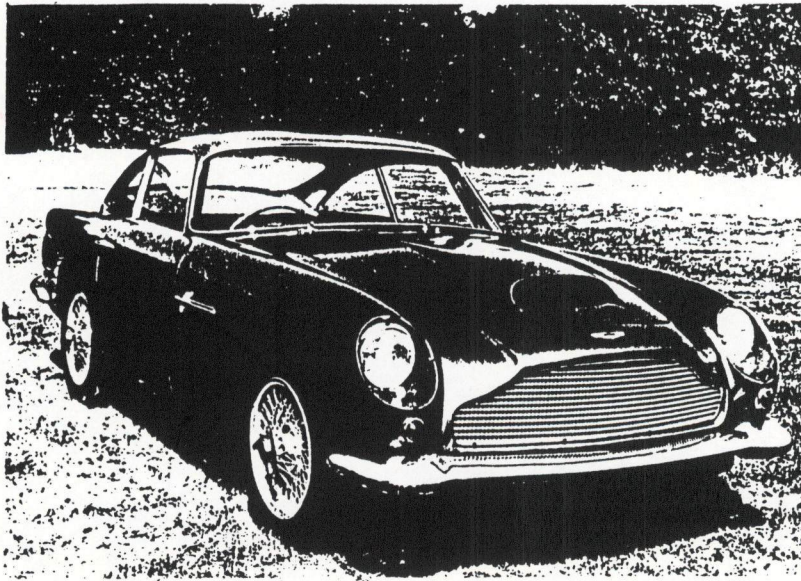
Model..... DB 4 G.T. Year of Manufacture..... 1959 -

Serial No. of Chassis..... DB4/GT/0001 -

Engine..... 370/0001/GT -

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

Recognition is valid from..... 30 - SEPT - 60 In category..... G.T.



Stamp of F.I.A. to be
The affixed hereon
INTERNATIONALE
de l'AUTOMOBILE

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

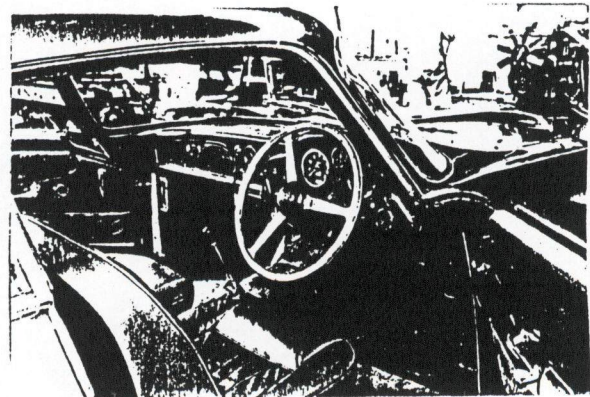
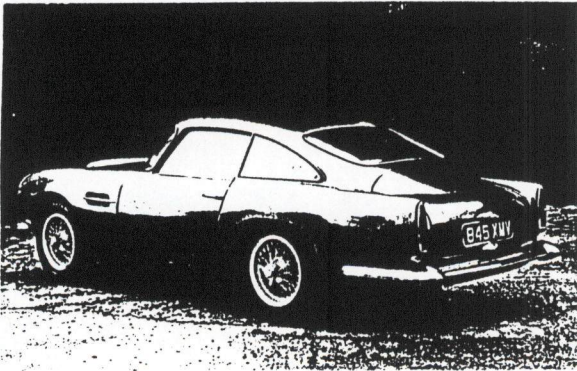
Six cylinder in line twin overhead camshaft seven bearing engine with aluminium alloy cylinder block and head: triple Weber 45 mm. carburettors: Borg & Beck 9.0" diam. twin dry plate strap drive hydraulically operated clutch.

David Brown all synchromesh 4-speed gearbox

Hypoid Bevel Powr-Lok differential, live rear axle.

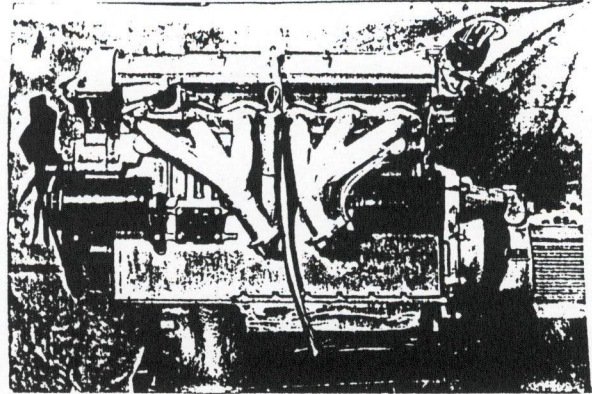
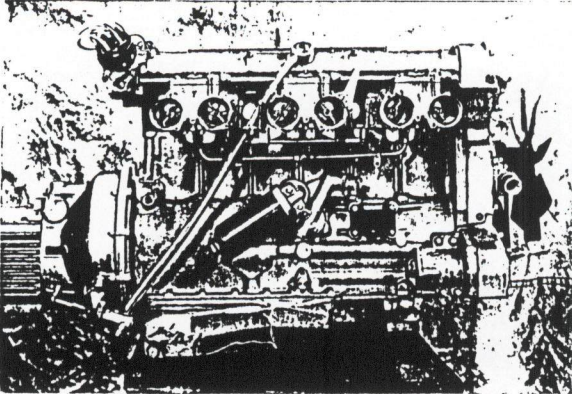
Independent front suspension with transverse wishbones and coil spring rear suspension located by Watts linkage. Girling hydraulic disc brakes, front and rear: cable hand brake: knock-off Borrani wire wheels.

Photographs to be affixed below.



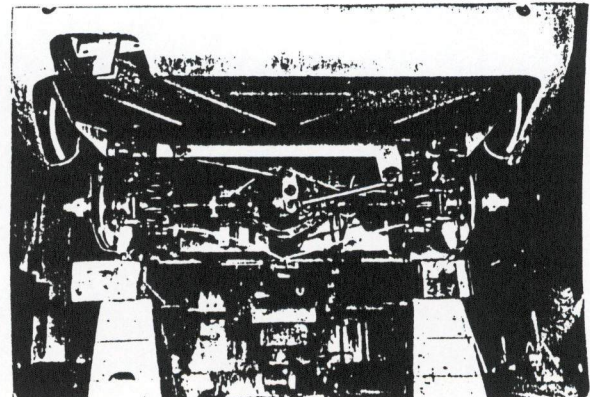
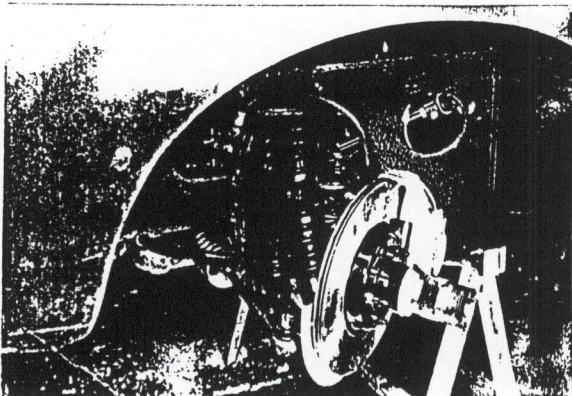
Engine unit with accessories from right.

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..... Not applicable Resultant capacity..... Not applicable 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..... Aluminium Alloy Volume of one combustion chamber..... 138.8 c.c.

Compression ratio..... 9.0:1

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..... 47¹/₂° BTDC Exhaust..... 66° BBDC

Valves close: Inlet..... 69¹/₂° ABDC Exhaust..... 41° ATDC

Maximum valve lift: Inlet..... 11.43 m.m. Exhaust..... 11.43 m.m.

Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet..... 143¹/₂° Exhaust..... 143¹/₂°
 ¼ Maximum lift: Inlet..... 83¹/₂° Exhaust..... 83¹/₂°

Valve springs: Inlet Exhaust
 Type..... Coil Coil
 No. per valve..... 2 2

Carburettor: Type..... Horizontal No. fitted..... 3

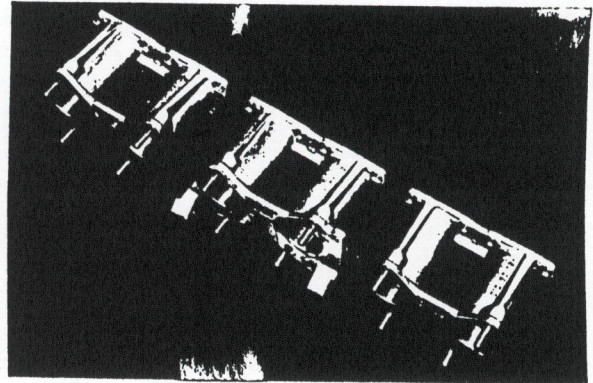
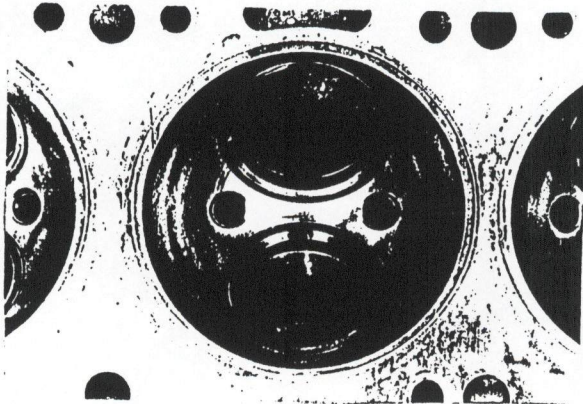
(up or down draft, horizontal)

Make..... Weber Model..... 45DCOE 4

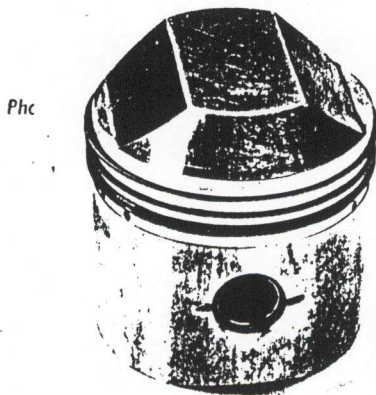
Flange hole diameter..... 45 m.m. Choke diameter..... 40 m.m.

Main jet identification No..... 155

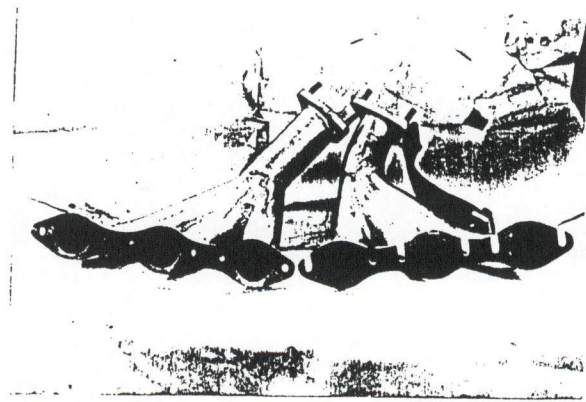
Air filter: Type Wire mesh at front of No. fitted 1
air box.
 Inlet manifold:
 Diameter of flange hole at carburettor 45 m.m.
 Diameter of flange hole at port 43.18 m.m.



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.



d here.



ENGINE ACCESSORIES

Make of fuel pump	<u>SU</u>	No. fitted	<u>One dual</u>
Method of operation	<u>Electrical Solenoid</u>		
Type of ignition system	<u>Twin coil and distributor</u>		<u>coil or magneto</u>
Make of ignition	<u>Lucas</u>	Model	<u>DMBZ6A</u>
Method of advance and retard	<u>Centrifugal</u>		
Make of ignition coil	<u>Lucas</u>	Model	<u>HA 12</u>
No. of ignition coils	<u>2</u>	Voltage	<u>12</u>
Make of dynamo	<u>Lucas</u>	Model	<u>C 45 PVS - 5</u>
Voltage of dynamo	<u>12</u>	Maximum output	<u>22</u> amps.
Make of starter motor	<u>Lucas</u>	Model	<u>M 45 G</u>
Battery: No. fitted	<u>1</u>	Voltage	<u>12</u>
		Capacity	<u>51</u> amp. hour

Make ASTON MARTIN Model DB 4 G.T. F.I.A. Recognition No.
 Manufacturers Reference No. of Application.....

TRANSMISSION

Make of clutch Borg & 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 synchromesh
 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.	2.493	$\frac{31}{23} \times \frac{31}{20}$						
2.	1.742	$\frac{31}{23} \times \frac{31}{24}$						
3.	1.255	$\frac{31}{23} \times \frac{27}{29}$						
4.	1.000	direct						
5.	-	-						

Type of final drive Hypoid Bevel
 Type of differential Power-lok bevel - torque bias
 Final drive ratio 3.54:1 Alternatives 3.77, 3.31, 4.09, 2.93
 No. of teeth 13/46 13/49, 13/43, 11/45, 14/41
 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 127.00 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.	42.86
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	306.38	m.m.	279.4
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	Sector: mean is 95.25		Sector: mean is 74.61	
		m.m.		m.m.
Width	Radial 63.50		Radial 47.625	
		m.m.		m.m.
Total area per brake	12,140	m.m. ²	5280	m.m. ²

SUSPENSION

	Front		Rear	
Type	Independent transverse wishbone		Trailing link	
Type of spring	Coil		Coil	
Is stabiliser fitted?	Yes		No	
Type of shock absorber	Telescopic Hydraulic		Piston Hydraulic	
No. of shock absorbers	2		2	

STEERING

Type of steering gear	Rack and Pinion		
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	136	litres	Sump	10.8	litres
Radiator	15.9	litres			
Overall length of car	435.3	cm.	Overall width of car	167.5	cm.
Overall height of car, unladen (with hood up, if appropriate)	132.1 cm.				
Distance from floor to top of windscreen:					
	Highest point	96.5	cm.	Lowest point	91.5
					cm.
Width of windscreen:					
	Maximum width	135	cm.	Minimum width	117
					cm.
*Interior width of car	130 cm.				
No. of seats	2				
Track: Front	137.2	cm.	Rear	136.0	cm.
Wheelbase	236.2	cm.	Ground clearance	108	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

1128 kgs.

(6)

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.²

Size of exhaust port:

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

Height.....m.m. Area.....m.m.²

Size of transfer port:

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

Height.....m.m. Area.....m.m.²

Size of piston port:

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

Height.....m.m. Area.....m.m.²

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:—

NIL

Manufacturers Reference No. for Application

AMS



F.I.A. Recognition No.

23

59

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. Add DB4 GT ZAGATO

Add to Optional Equipment :

Wheels Boranni Record	16 x 6 1/2
" "	16 x 6 00



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

Date amendment valid from

last 9/24

4/11/63

Form 1-513

Handwritten signature

