

Manufacturers Reference No. for Application

AM6



F.I.A. Recognition No.

186

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..... **DB5** Year of Manufacture..... **1963**

Serial No. of Chassis..... **DB5/1301-**

Engine..... **400/1251**

Type of Coachwork..... **2-Door Saloon**

Recognition is valid from..... In category.....



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

Form: R.F.I.A.

General description of car:

Specify here material/s of chassis/body construction
bearing engine with aluminium alloy Cylinder Block and Head; three SU 2inDia Carburettors; Laycock 10in. Dia Single Plate diaphragm spring Clutch hydraulically operated; ZF all synchromised five speed gearbox; live Rear Axle.

'Superleggera' Aluminium Panelled 4-Seater 2-door Saloon Body on Tubular Steel Frame in Unit with Steel Platform Chassis.

Six Cylinder in line Twin Overhead Camshaft seven bearing engine with aluminium alloy Cylinder Block and Head; three SU 2inDia Carburettors; Laycock 10in. Dia Single Plate diaphragm spring Clutch hydraulically operated; ZF all synchromised five speed gearbox; live Rear Axle.

Independent Front Suspension with Transverse Wishbones and Coil Springs; Telescopic Shock Absorbers.

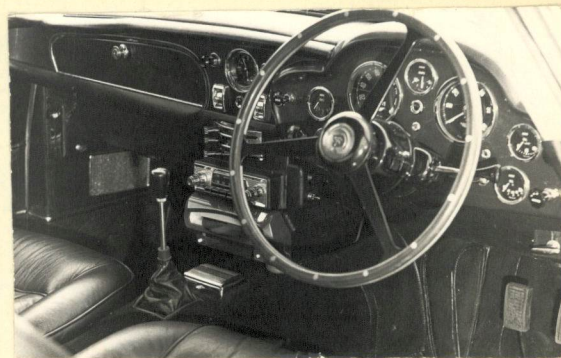
Rear Suspension Trailing link and Coil Springs; Watt Linkage; adjustable Piston type Shock Absorbers. Girling Disc Brakes Front and Rear, Hydraulically operated; in Vacuum Servos; Cable operated Hand Brake.

Photographs to be affixed below.

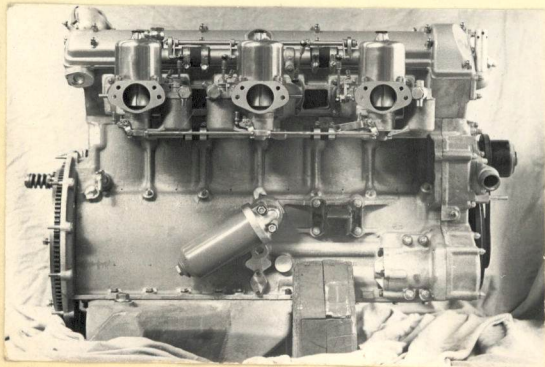
Wire Wheels.



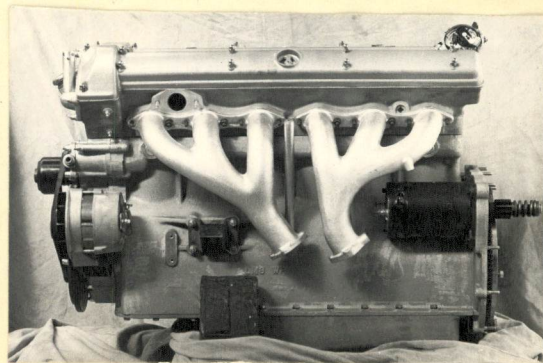
Engine unit with accessories from right.



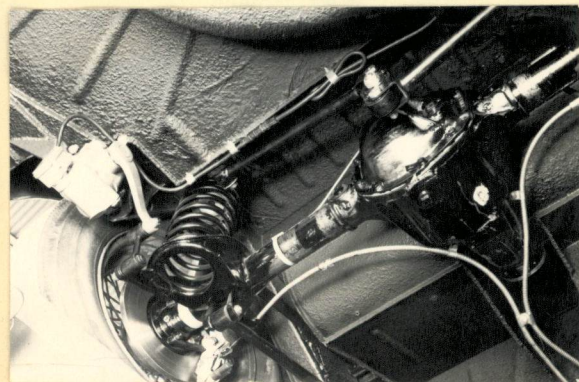
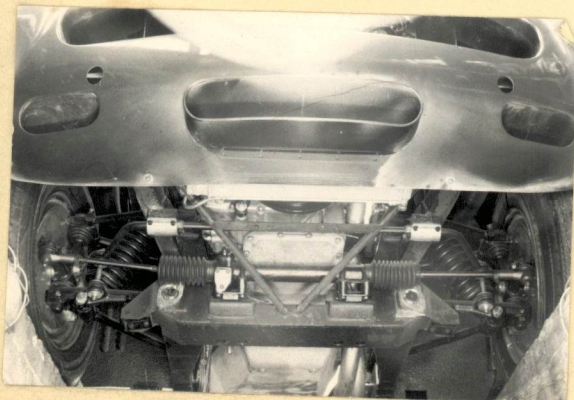
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



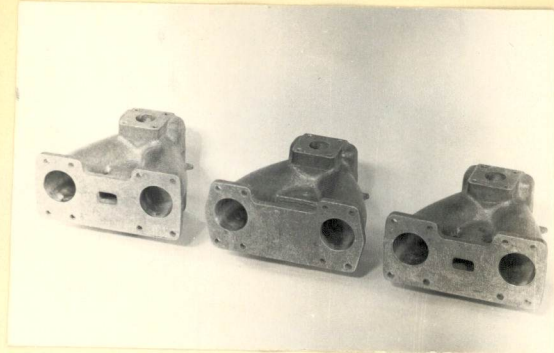
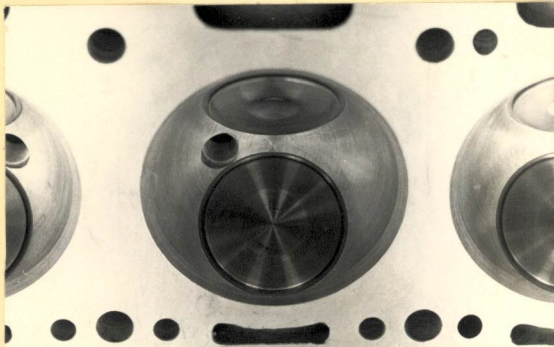
ASTON MARTIN DB5
ENGINE

Catalogued B.H.P. 282
at R.P.M. 5500

No. of cylinders..... 6 in line ✓
 in V
 opposed
 Cycle..... Firing order..... 153624
 Capacity..... 3995 c.c. Bore..... 96 m.m. Stroke..... 92 m.m.
 Maximum rebore..... N/A Resultant capacity..... N/A c.c.
 Material of cylinder block..... Alum Alloy Material of sleeves, if fitted..... Cast Iron
 Distance from crankshaft centre line to top face of block at centre line of cylinders..... 266.7 m.m.
 Material of cylinder head..... Alum Alloy Volume of one combustion chamber..... 84.3 c.c.
 Compression ratio..... 8.9:1
 Material of piston..... Alum Alloy No. of piston rings..... 4
 Distance from gudgeon pin centre line to highest point of piston crown..... 59.25 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..... 5.55 kg.
 Crankshaft..... 29.5 kg.
 Connecting rod..... 0.936 kg.
 Piston with rings..... 0.669 kg.
 Gudgeon pin..... 0.154 kg.
 No. of valves per cylinder..... 2 Method of valve operation..... Direct
 No. of camshafts..... 2 Location of camshafts..... Overhead
 Type of camshaft drive..... Duplex Chain
 Diameter of valves: Inlet..... 51.118 m.m. Exhaust..... 47.689 m.m.
 Diameter of port at valve seat: Inlet..... 47.752 m.m. Exhaust..... 42.672 m.m.
 Tappet clearance for checking timing: Inlet..... 0.23/0.28 m.m. Exhaust..... 0.28/0.33 m.m.
 Valves open: Inlet..... 17° BTDC Exhaust..... 69° BBDC
 Valves close: Inlet..... 79° ABDC Exhaust..... 23° ATDC
 Maximum valve lift: Inlet..... 11.43 m.m. Exhaust..... 11.049 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet..... 138° Exhaust..... 136°
 $\frac{3}{4}$ Maximum lift: Inlet..... 82 $\frac{1}{2}$ ° Exhaust..... 77.5°
 Valve springs: Inlet..... Coil Exhaust..... Coil
 Type..... Coil
 No. per valve..... 2
 Carburettor: Type..... Horizontal No. fitted..... 3
 (up or down draft, horizontal)
 Make..... S.U. Model..... H.D.8
 Flange hole diameter..... 50.8 m.m. Choke diameter..... N/A m.m.
 Main jet identification No..... Needle UU or UX

Air filter: Type..... Paper No. fitted..... 1

Inlet manifold:
 Diameter of flange hole at carburettor..... 50.8 m.m.
 Diameter of flange hole at port..... 38.1 m.m.



Exhaust manifold:
 Diameter of flange hole at port..... 41.91 m.m.
 Diameter of flange hole at connection to silencer inlet pipe..... 50.8 m.m.



ENGINE ACCESSORIES

SU. No. fitted..... 1

Make of fuel pump..... Electric No. fitted.....
 Method of operation..... Coil
 Type of ignition system..... LUCAS coil or magneto
 Make of ignition..... Automatic Model
 Method of advance and retard..... LUCAS
 Make of ignition coil..... LUCAS Model..... BA 7
 No. of ignition coils..... 1 Voltage..... 12
 Make of ~~dynamo~~ Alternator (LUCAS) Model..... 11 Ac
 Voltage of dynamo..... " 12 Maximum output..... 45 amps.
 Make of starter motor..... (LUCAS) Model..... M45G
 Battery: No. fitted..... 1 Voltage..... 12 Capacity..... 60 amp. hour
 Oil Cooler (if fitted) type..... Cross Flow Capacity..... pints

Make Aston Martin Model DB5 F.I.A. Recognition No.
 Manufacturers Reference No. of Application

TRANSMISSION

Laycock Type Dry Plate
 Make of clutch
 Diameter of clutch plate 250.8mm No. of plates 1
 Method of operating clutch Hydraulic
Z.F. Type S5-325
 Make of gearbox
 No. of gearbox ratios 5
 Method of operating gearshift Manual
Centre Floor
 Location of gearshift
 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.	2.73	43/19 34/19						
2.	1.76	43/24 34/33						
3.	1.23	43/35 34/39						
4.	1.00	Direct						
5.	0.83	43/52 34/47						

Type of final drive Hypoid
 Type of differential Bevel
 Final drive ratio 3.77:1 or 3.73:1 Alternatives 3.31, 3.54, 4.09:1
 No. of teeth 13/49 11/41 13/43 13/46 11/45
 Overdrive ratio, if fitted N/A

WHEELS

Type Wire Weight 9.06 kg.
 Method of attachment Centre Lock 2 or 3 Eard Hub Cap
 Rim diameter 381 m.m. Rim width 139.7 m.m.
 Tyre size: Front 6.70 x 15 Rear 6.70 x 15

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? Yes
 Type of servo, if fitted Vacuum
 No. of hydraulic master cylinders 1 Tandem Bore 22.2 m.m.

	Front 6	Rear 6
No. of wheel cylinders	2-39.39 (Outer)	2-30.23 (Outer)
Bore of wheel cylinders	1-37.15 (Inner) m.m.	1-42.67 (Inner) m.m.
Inside diameter of brake drums	N/A m.m.	N/A m.m.
No. of shoes per brake	N/A	N/A
Outside diameter of brake discs	292.1 m.m.	273.05 m.m.
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	85 (Mean) m.m.	75 (Mean) m.m.
Width	52 m.m.	45 m.m.
Total area per brake	8840 m.m. ²	6750 m.m. ²

SUSPENSION

	Front	Rear
Type	Independent (Wishbone)	Trailing Link
Type of spring	Coil	Coil
Is stabiliser fitted?	Yes	No
Type of shock absorber	Telescopic	Lever (adjustable)
No. of shock absorbers	2	2

STEERING

Type of steering gear	Rack and Pinion	
Turning circle of car	10.5	m., approx.
No. of turns of steering wheel from lock to lock	3.2	

CAPACITIES AND DIMENSIONS

Fuel tank	85.5 litres	Sump	13.15 litres
Radiator	15.9 litres		
Overall length of car	457.2 cm.	Overall width of car	167.6 cm.
Overall height of car, unladen (with hood up, if appropriate)	132 cm.		
Distance from floor to top of windscreen:			
Highest point	98.5 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	4		
Track: Front	137.8 cm.	Rear	135.9 cm.
Wheelbase	248.9 cm.	Ground clearance	115 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	1275 kgs.
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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.

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.....

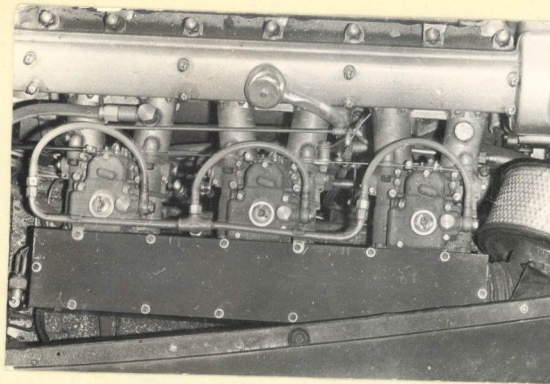
Location of injectors.....

Optional equipment affecting preceding information:—

1. Engine equipped with 3- Weber 45 DCOE9 Carburettors.
Dia of flange hole at Inlet Port opened out to 41.2mm
Modified Valve Timing:
Valves Open: Inlet 29° BTDC Exhaust 58° BBDC
Valves Close: Inlet 67° ABDC Exhaust 34° ATDC
Degrees of Crankshaft rotation from Zero to -
Max Lift: Inlet 138° Exhaust 136°
 $\frac{3}{4}$ Max Lift Inlet $82\frac{1}{2}$ Exhaust $77\frac{1}{2}$

All other engine details remain unchanged as above.

Part No 53-00-001



2. Powr Lok limited Slip Differential. Part No 48-60-126
3. Road Wheels with 152.4 mm wide Light Alloy Rims.
Part No 48-60-027