

5TH CATEGORY - HISTORIC RACING
GROUP S
 APPROVED VEHICLE SPECIFICATION

This form details the approved specifications of individual vehicle models in the 5th Category Historic car group. To be issued with an Historic Log Book, cars need to comply with these specifications, the physical appearance shown in the illustrations and the general historic rules as detailed in the current Motorsport Australia Manual.

Make of Car:	Aston Martin	Model:	DB4 DB4GT
Period of Original Manufacture:	1958 – 1963		
Motorsport Australia Historic Group:	Sa		
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Update Log

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SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Platform
Period of Manufacture:	1958 – 1963
Manufacturer:	Aston Martin
Chassis Number From:	DB4 – DB4/101/R – DB4/1215/L DB4GT – DB4GT/0101/L – DB4GT/0201/L
Chassis Number location:	Scuttle
Material:	Mild steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent front suspension, Twin wishbone		
Spring Medium:	Coil		
Damper Type:	Tubular	Adjustable:	No
Anti-sway bar:	Yes	Adjustable:	No
Suspension adjustable:	No	Method:	N/A
Comments:	Spring rates and ride heights may be adjusted		

1.3. REAR SUSPENSION

Description:	Rigid axle with parallel links and Watts linkage		
Spring Medium:	Coil		
Damper Type:	D?A lever	Adjustable	No
Anti-sway bar:	No	Adjustable:	N/A
Suspension adjustable:	No	Method:	N/A
Comments:	None		

1.4. STEERING

Type:	Rack and Pinion	Make:	Aston Martin
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc	Disc
Dimensions:	304 mm x 50.8 mm	294 mm x 44.5 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	Four	Four
Actuation:	Hydraulic	Hydraulic
Caliper make:	Dunlop	
Caliper type:	Tandem	
Material:	Cast iron	
Master cylinder make:	Girling	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:	Dual or tandem master cylinders permitted	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Aston Martin		
Model:	DB4		
No. cylinders:	Six	Configuration:	In line
Cylinder Block-material:	Aluminium	Two/Four Stroke:	Four
Bore - Original:	92 mm	Max allowed:	93.5 mm
Stroke - original:	92 mm	Max allowed:	92 mm
Capacity - original:	3671 cc	Max allowed:	3791.64 cc
Identifying marks:			
Cooling method:	Liquid		
Comments:	None		

2.2. CYLINDER HEAD

Make:	Aston Martin				
No. of valves/cylinder:	Two	Inlet:	One	Exhaust:	One
No. of ports total:	Twelve	Inlet:	Six	Exhaust:	Six
No. of camshafts:	Two	Location:	Overhead cam	Drive:	Chain
Valve actuation:	Direct				
Spark plugs/cylinder:	DB4 – One DB4GT - Two				
Identifying marks:					
Comments:	None				

2.3. LUBRICATION

Method:	Wet sump	Oil tank location:	N/A
Dry sump pump type:	N/A	Location:	N/A
Oil cooler standard:	No	Location:	N/A
Comments:	Oil cooler allowed		

2.4. IGNITION SYSTEM

Type:	Points, Coil and Distributor
Make:	Lucas
Comments	Breakerless electronic ignition permitted

2.5. FUEL SYSTEM

Carburettor Make – DB4:	SU	Model:	HD8
Carburettor Make – Vantage DB4GT:	Weber	Model:	C40DD47
Carburettor Number:	Three		
Size:	2"		
Fuel injection Make:	N/A	Type:	N/A
Supercharged:	No	Type:	N/A
Comments:	None		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Borg and Beck
Type:	Diaphragm
Diameter:	DB4 – 228.6 mm DB4GT – 254 MM
No. of Plates:	One
Actuation:	Hydraulic
Comments:	None

3.2. TRANSMISSION

Type:	David Brown
Make:	
Gearbox location:	Behind engine
No. forward speeds:	Four
Gearchange type and location:	Floor remote
Case material:	Aluminium
Identifying marks:	N/A
Comments:	Some cars fitted with overdrive

3.3. FINAL DRIVE

Make:	Salisbury	Model:	
Ratios:	3.54		
Differential type:	Hypoid bevel		
Comments:	Ratios free, Limited slip diff allowed		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Tubular shaft with Hardie Spicer type universal joints
Comments:	None

3.5. WHEELS & TYRES

Wheel type - Original:	Wire	Material - Original:	Steel
Wheel type - Allowed:	Period alloy	Material - Allowed:	Period alloy
Fixture method:	Central hub	No. studs:	One
Wheel dia. & rim width	FRONT		REAR
Original:	6" x 15"		6" x 15"
Allowed	6" x 15"		6" x 15"
Tyre Section:			
Original:	600 x 16"		600 x 16"
Allowed:	205 x 15"		205 x 15"
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list.		

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Under boot	Capacity:	136 litres
Fuel pump, type:	Electrical	Make:	SU
Comments:	None		

4.2. ELECTRICAL SYSTEM

Voltage:	Twelve	Alternator fitted:	Generator
Battery Location:	Boot		
Comments:	None		

4.3. BODYWORK

Type:	Fixed head Coupe	Material:	Steel
No. of seats:	Four (2x2)	No. doors:	Two
Comments:	4GT has Perspex cowls over headlamps		

4.4. DIMENSIONS

Track - Front:	1370 mm	Rear:	1360 mm
Wheelbase:	DB4 - 2490 mm DB4GT - 2362 mm	Overall length:	DB4 - 4480 mm DB4GT - 4353 mm
Dry weight:	DB4 - 1354 kg DB4GT - 1296 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations



THE DAVID BROWN ASTON MARTIN DB4



An Aston Martin is a masterpiece of engineering and design. It is a car that is built to last and to give you the most exhilarating driving experience.





Note the armchair comfort of the front seats. Adjustment to full reclining position is simple and easy of operation by the side lever control of the Chapman Reuter seat mechanism. Note, too, the clear vision afforded by the wrap-around windshield.



The seats, upholstered in first quality Connolly leather, adequately accommodate four adults. There is ease of access to all seats and the rear seats are generously proportioned.



The instruments are sensible in size, type, and location and hooded to ensure against reflection in the screen. The switches are conveniently grouped and carry identifying symbols. Note the wood trim steering wheel, the side ventilator controls, the pedal arrangement and the fly-off hand brake lever.



Luggage accommodation is commendable for a car of this class. The golf clubs can be carried in the boot with a lesser amount of luggage. Note the sturdy wrap-around rear bumper which is matched at the front end.

A complete heating and ventilating system is standard equipment and is adequate for the most exacting of climatic conditions. The system provides either fresh air or heated air by selector controls for either the driver or the passenger, or for both. In extremes of temperature an air blower can be operated to augment the normal supply. The controls can be operated by either the driver or the front passenger.

DB4 ABRIDGED SPECIFICATION

The following optional equipment is offered for the Aston Martin DB4 Saloon.

- Radio**
- Fog and spot lamps**
- Wing mirrors**
- White wall tyres**
- Chrome wheels**
- Fitted suit cases**
- 3 dual choke Weber carburettors**
- Oil Cooler**
- Power-lok differential**
- Alternative axle ratios**



ASTON MARTIN LAGONDA LIMITED
HANWORTH PARK, FELTHAM, MIDDLESEX

A SUBSIDIARY OF THE LLOYD ASSURANCE CORPORATION LIMITED

Telephone: Feltham 9641. Cables: Astomartia, Feltham
London Showroom: 96/97 Piccadilly, London, W1

Engine. Six cylinder. Bore 92 mm. (3.622 ins.). Stroke 92 mm. Cubic capacity 3670 c.c. (221 cu. ins.).

Aluminium alloy cylinder block and head.

Seen bearing crankshaft.

Twin overhead camshafts. Two-stage Duplex chain drive.

Hemispherical combustion chambers.

Twin S.U. diaphragm type carburetors with electrically operated starting carburetor.

Lubrication. Chain driven Hobourn-Eaton oil pump and Purolator full flow filter.

Cooling. Centrifugal water pump and fan. Cross flow radiator.

Compression Ratio. 8.25 : 1.

Power Output. 240 h.p. at 5,500 r.p.m. 263 h.p. S.A.E. rating at 5,700 r.p.m.*

Cutch. Borg and Beck 10 in. single plate.

Gearbox. David Brown four-speed with synchromesh on 1st, 2nd, 3rd and top gears.

Rear Axle. Salisbury hypoid. Ratios 3.31, 3.14 and 3.77 : 1.

Suspension. Front: Independent. Co-axial coil springs and Armstrong telescopic shock absorbers.

Rear: Live axle. Parallel trailing links and Watts linkage. Coil springs. Armstrong piston type shock absorbers.

Steering. Rack and pinion.

Brakes. Dunlop disc front and rear. Vacuum servo.

Fuel Tank. 19 Imperial galls (228 U.S. galls) (863 litres).

Wheels and Tyres. Dunlop centre-lock 5 in. rims. 6.00 x 16 Avon Turbospeed tyres.

Dimensions.

Wheelbase	98 ins.	(2489 cm.)
Front track	54 ins.	(1372 cm.)
Rear track	531 ins.	(1359 cm.)
Overall length	1761 ins.	(4480 cm.)
Overall height	52 ins.	(1321 cm.)
Overall width	66 ins.	(1676 cm.)
Kerb weight	2,884 lb.	(1308 kg.)

DB4 DONNEES TECHNIQUES SOMMAIRES

Moteur. Six cylindres. Alésage 92 mm. Course 92 mm. Cylindrée 3670 cc.

Cylindres et boîtes-cylindres en alliage léger.

Vieillessequin travaillant sur 7 paliers.

Deux arbres à cames en tête. Entraînement par chaînes Duplex deux étages.

Chambres de combustion hémisphériques.

Deux carburateurs S.U. à membrane avec carburateur de démarrage à commande électrique.

Grassage. Pompe à huile Hobourn Eaton entraînée par chaîne, filtre Purolator en série.

Réfrigérissement. Pompe à eau à turbine et ventilateur. Radiateur à circulation transversible.

Rapport volumétrique. 8,25 : 1.

Puissance effective. 240 HP à 5,500 t/mn. 263 HP (normale S.A.E.) à 5,700 t/mn.

Embrayage. Borg et Beck, monodisque, diamètre 25,4 cm.

Boîte de vitesses. David Brown, 4 rapports, avec levé, 2ème, 3ème et 4ème synchromesh.

Pont arrière. Hypoide Salisbury. Rapports 3,31, 3,54 et 3,77 : 1.

Suspension. Avant: indépendante; ressorts hélicoïdaux coaxiaux et amortisseurs télescopiques Armstrong.

Arrière: pont rigide; belles arrière parallèles et triangle Watts; ressorts hélicoïdaux. Amortisseurs Armstrong à piston.

Direction. par crémaillère.

Freins. freins à disques Dunlop sur roues avant et arrière. Servo à dépression.

Reservoir d'essence. contenance 86,3 litres.

Roues et pneus. Jantes Dunlop 12,7 cm. montées par chassis à visser; pneus Avon Turbospeed.

Cotes.

Empattement	248,9 cm.
Voie avant	137,2 cm.
Voie arrière	135,9 cm.
Longueur hors tout	448,0 cm.
Hauteur hors tout	132,1 cm.
Largueur hors tout	167,6 cm.
Poids en ordre de marche	1308 kg.

DB4 TECHNISCHE KURZBESCHREIBUNG

Motor. Sechsigzylinder. Bohrung 92 mm. Hub 92 mm. Hubvolumen 3670 ccm.

Zylinderblock und -kopf aus Aluminiumlegierung.

Kurbelwelle mit 7 Hauptlagern.

Oberliegende Doppelnockenwelle. Zweistufiger Duplex-Kettentrieb.

Halbkugelförmige Ventrennungskammern.

Doppelte S.U.-Membranvergaser mit elektrischer Startvorrichtung.

Schmierung. Kettenbetriebene Ölpumpe Hobourn-Eaton mit "Purolator"-Vollstromfilter.

Kühlung. Schiebepumpe und -gebläse. Querstromkühler.

Verdichtungsverhältnis. 8,25 : 1.

Bremsleistung. 240 PS bei 5,500 U/min. 263 PS (nach S.A.E.) bei 5,700 U/min.

Kupplung. Borg & Beck, 25,4 cm Ein-scheibenkupplung.

Getriebe. Vierganggetriebe Type David Brown mit Gleitlauf im 1., 2., 3. und obersten Gang.

Hinterachse. Salisbury-Hypoidgetriebe. Verhältnis 3,31, 3,54 u. 3,77 : 1.

Aufhängung. Form: Einzelradlaufhängung. Koaxiale Spiralfedern und Armstrong-Teleskopstoßdämpfer.

Hinter: Treibachse. Parallele Hinterlenker und Watts-Lenker. Spiralfedern. Armstrong-Hilfsstoßdämpfer.

Lenkung. Zahnstangenlenkung.

Bremsen. Dunlop-Scheibenbremsen vorn und hinten. Unterdruck-Servobremsen.

Kraftstoffbehälter. 86,3 l.

Räder und Reifen. Bauart Dunlop, 12,7 cm. Reifen 6,00 x 16. Avon-Turbospeed-Reifen.

Abmessungen.

Achsstund	248,9 cm.
Radspur vorn	137,2 cm.
Radspur hinten	135,9 cm.
Gesamtlänge	448,0 cm.
Gesamthöhe	132,1 cm.
Gesamtbreite	167,6 cm.
Gewicht, unbeladen	1308 kg.

