



THE DAVID BROWN ASTON MARTIN DB4 CONVERTIBLE

THE DAVID BROWN 1963 ASTON MARTIN DB4 SPECIFICATIONS

Engine: Six-cylinder twin overhead camshaft. Bore 92 mm. (3.622"). Stroke 92 mm. Capacity 3670 c.c. (224 cu. ins.).

DB4 Saloon and Convertible: Standard. Twin S.U. carburettors. Compression ratio 8.25:1. 240 b.h.p. at 5,500 r.p.m.

DB4 Vantage: Special Series. Triple S.U. carburettors. Compression ratio 9:1. 266 b.h.p. at 5,750 r.p.m.

DB4 Vantage G.T.: Triple Weber carburettors. Twin plug head. Compression ratio 9:1. 302 b.h.p. at 6,000 r.p.m.

Cylinder Block: Cast in aluminium alloy. Centrifugally-cast chrome vanadium iron top seating wet liners.

Crankshaft: Forged in chrome molybdenum steel, nitrided, statically and dynamically balanced. The shaft is carried in seven 2½" diameter (69.85 mm.) steel backed, lead bronze bearings.

Cylinder Head and Valve Operation: Cast in aluminium alloy and incorporating fully machined hemispherical combustion chambers. Large diameter valves inclined to 80° included angle, with exhaust valve guides in direct contact with water. Twin overhead camshafts operate the valves direct through the medium of cyanide hardened nickel molybdenum steel tappets. Camshaft driven by two-stage Duplex roller chains with manually adjusted tensioners.

Pistons and Connecting Rods: Die-cast aluminium alloy. Two compression rings, top chromium plated, second taper faced. One twin segment oil control ring, large diameter gudgeon pin located by circlips. Forged connecting rods in nickel chrome molybdenum steel, weight graded and balanced.

Lubrication System: By front mounted chain-driven oil pump and full flow filter. Oil cooler standard equipment on Vantage car.

Cooling System: Cooling by pump and thermostatically controlled electric fan. Cross-flow radiator with separate header tank.

Ignition: High efficiency coil with ballast resistor. Distributor incorporating vacuum and automatic advance and vernier adjustment. Twin ignition on G.T. engine.

Clutch: Borg and Beck 9" (22.86 cm.) twin plate hydraulically operated.

Gearbox: David Brown Aston Martin four-speed with spring-loaded reverse stop. Baulk ring synchromesh on 1st, 2nd, 3rd and top gears. Ratios: top, 1:1; 3rd, 1.25:1; 2nd, 1.85:1; 1st, 2.92:1; reverse, 2.52:1.

Overdrive: Ratio 0.82:1. Optional extra.

Propeller Shaft: Needle roller bearing, dynamically balanced.

Final Drive: Hypoid rear axle. Ratio 3.31:1. Alternatives: 3.54:1; 3.77:1. Ratio with overdrive 3.77.

Overall ratios:	O drive	—	—	3.18
	Top	3.31	3.54	3.77
	3rd	4.14	4.42	4.71
	2nd	6.14	6.56	6.99
	1st	9.67	10.34	11.01

Suspension: *Front:* Independent, incorporating transverse wishbones and ball jointed king pin. Co-axial coil springs and large diameter telescopic shock absorbers.

Rear: Live axle mounted on parallel trailing links and located transversely by Watt linkage. Helical coil springs mounted behind axle. Large double acting piston type shock absorbers.

Steering: Rack and pinion steering. 16" diameter (40.64 cm.) wood rimmed steering wheel. Column angle adjustable.

Brakes: Dunlop disc front and rear, hydraulically operated vacuum servo assisted. Floor mounted handbrake lever operating on rear discs. Fluid level warning light.

Fuel System: Tank capacity: Standard, 19 Imperial galls. (86.4 litres, 22.8 U.S. galls.); Convertible, 16 Imperial galls. (72.7 litres, 19.2 U.S. galls.). Electrically operated reserve, 3 Imperial galls. (13.6 litres, 3.6 U.S. galls.). Twin S.U. high pressure electric fuel pump.

Exhaust System: Twin pipe system with high efficiency silencers.

Wheels and Tyres: Dunlop centre-lock wire wheels with 5½" (13.9 cm.) wide rims. 6-70" x 15" tyres.

Electrical Equipment: Lucas 12-volt system, 51 amp.-hour battery incorporating master switch, located in compartment at side of luggage boot. (Convertible battery under rear seat.) Heavy duty ventilated dynamo with automatic voltage control. Starter motor, distributor and oil filled coil. Two-speed windscreen wipers and electric windscreen washer, operated by single control knob. Twin wind tone horns.

Steering column finger-tip lever for operating self-cancelling flashing direction indicators, headlamp high and low beams and for flashing headlamps. Instrument panel illumination controlled by rheostat switch. Map reading and interior courtesy lights. Cigar lighter. Under bonnet socket for inspection lamp. Large built-in headlamps and separate front parking lamps. Separate front flashing direction indicators on Standard car. Combined front parking lamps and flashing direction indicators on Vantage car. Separate stop-tail lamps, flashing direction indicators and twin reversing lamps.

Instruments: Speedometer, electric revolution counter, oil pressure gauge, oil temperature gauge, water temperature gauge, fuel gauge with reserve warning light, ammeter and electric clock.

Heating and Ventilation: Comprehensive heating and ventilating system providing fresh air or heat to driver or passenger's side at choice. Controls arranged for the whole heater output to be used for windscreen defrosting if required.

Body: "Superleggera" magnesium aluminium alloy panelled tubular steel framed four-seater in unit with steel platform chassis. Body-chassis unit completely rust proofed, sound insulated and undersealed. All seats upholstered in finest quality English hide. Bucket type reclining front seats fully adjustable. Pile carpets throughout. Lockable glovebox. Sun visors. Passenger's grab handle. Wrap-round windscreen. Framed door windows and opening quarter lights on Standard saloon. Petrol filler lid operated from interior. Ample luggage accommodation is provided in the rear boot with lockable lid and separate key. Heavy duty wrap-round bumpers. Attachment points for safety belts.

Spare Wheel and Tools: The spare wheel is carried in a separate waterproof compartment underneath the boot floor. The tools are contained in a roll accommodated in the boot.

Jacking: By mechanical screw type jack engaging sockets adjacent to each wheel.

General Dimensions:	Convertible	Saloons
Wheelbase	8' 2"	8' 2"
Track: front	4' 6"	4' 6"
rear	4' 5½"	4' 5½"
Overall length	15' 0"	15' 0"
Overall width	5' 6"	5' 6"
Overall height	4' 5"	4' 4"
Ground clearance	6½"	6½"
Turning circle	34' 0"	34' 0"
Kerb weight	2,983 lb.	2,983 lb.

DB4 CARACTERISTIQUES ABREGÉES

Moteur: Six cylindres, deux arbres à cames en tête, bloc-moteur et culasse en alliage d'aluminium. Alésage 92 mm. (3,622 pouces), course 92 mm. Cylindrée 3.670 cm³ (224 pouces cubes).

Berline et Décapotable standard DB4: Carburateur double S.U. Taux de compression 8,25:1. Puissance au frein 240 h.p. à 5.500 t/m.

Vantage DB4 Série spéciale: Carburateur triple S.U. Taux de compression 9:1. Puissance au frein 266 h.p. à 5.750 t/m.

Vantage DB4 G.T.: Carburateur triple Weber. Bougies par groupes de deux. Taux de compression 9:1. Puissance au frein 302 h.p. à 6.000 t/m.

Système d'alimentation: Pompe électrique jumelée à haute pression. Contenance du réservoir de carburant: Berline, 19 gallons impériaux (86,4 litres); Décapotable, 16 gallons impériaux (72,7 litres)—comprenant une réserve de 3 gallons (13,6 litres) pour les deux modèles.

Transmission: Embrayage hydraulique à double disque 22,86 cm. (9 pouces) avec course morte à réglage automatique. Boîte de vitesses: David Brown 4 vitesses synchronisées. Transmission finale: Pont arrière hypoidé. Rapports de vitesses alternatifs et surmultiplication sur demande.

Suspension: Suspension avant indépendante par triangles transversaux, ressorts hélicoïdaux et amortisseurs télescopiques de grand diamètre. Suspension arrière par articulations à chasse arrière, ressorts hélicoïdaux et grands amortisseurs type à piston. Pont placé par tringlerie Watt.

Direction: Aston Martin à crémaillère et pignon, volant à jante de bois de 40,64 cm. de diamètre. (16 pouces).

Freins: Servo-freins hydrauliques à disque Dunlop à l'avant et à l'arrière.

Carrosserie: Carrosserie à charpente en acier tubulaire et panneaux en alliage léger avec châssis en acier type plateforme.

Dimensions générales:	Decapotable	Berline
Empattement	2,49 m.	2,49 m.
Voie: avant	1,37 m.	1,37 m.
arrière	1,36 m.	1,36 m.
Longueur hors tout	4,57 m.	4,57 m.
Largeur hors tout	1,68 m.	1,68 m.
Hauteur hors tout	1,34 m.	1,32 m.
Garde au sol	15,9 cm.	15,9 cm.
Diamètre de braquage	10,4 m.	10,4 m.
Poids en ordre de marche	1354 kg.	1354 kg.

DB4
KURZE ANGABEN

Motor: 6 Zylinder, zwei obenliegende Nockenwellen, Motorblock und Zylinderkopf aus Aluminiumlegierung. Bohrung 92 mm., Hub 92 mm, Hubraum 3.670 ccm.

Standard DB4 Tourenwagen und Cabrio: S.U. Zwillingvergaser. Verdichtung 8,25:1. 240 Brake Horse Power (Brems-PS) bei 5.500 U/min.

DB4 Vantage Sonderreihe: S.U. Drillingsvergaser. Verdichtung 9:1. 266 Brake Horse Power (Brems-PS) bei 5.750 U/min.

DB4 Vantage G.T.: Weber Drillingsvergaser. Zündkerzen paarweise angeordnet. Verdichtung: 9:1. 302 Brake Horse Power (Brems-PS) bei 6.000 U/min.

Kraftstoffsystem: Zwei elektrische Hochdruckpumpen. Kraftstofftankvolumen: Tourenwagen 19 Gallonen (86,4 Liter); Cabrio 16 Gallonen (72,7 Liter). Bei beiden 3 Gallonen (13,6 Liter) Reserve.

Antrieb: Kupplung: Zwei 22,86 Scheiben, hydraulische betätigt. Automatische Nachstellung des Pedalspiels. Getriebe: In allen Gängen vollsynchronisiertes David Brown-Getriebe. Hinterachse: Hypoidverzahnung. Auf Wunsch wahlweise Übersetzungen und Overdrive.

Federung: Vorne Einzelaufhängung durch Traversal-Querlenker, Schraubenfedern und Teleskop-Stoßdämpfer mit großem Durchmesser. Hinten Federung durch Schubstrebe, Schraubenfedern und große Kolben-Stoßdämpfer. Hinterachse an Watt-Befestigung aufgehängt.

Lenkung: Aston-Martin Zahnstange-und-Ritzel Lenkung. 40,64 cm. Lenkrad mit Holzrand (16 Zoll).

Bremsen: Dunlop-Scheibenbremsen an allen vier Rädern. Hydraulik-Bremshelf.

Karosserie: Mit Leichtmetall verkleidete Stahlrohrkonstruktion, fest mit dem Rahmenboden-fahrgestell aus Stahl verbunden.

Allgemeine Abmessungen:

	<i>Cabrio</i>	<i>Tourenwagen</i>
Radstand	2,49 m.	2,49 m.
Spurweite: Vorne	1,37 m.	1,37 m.
Hinten	1,36 m.	1,36 m.
Gesamtlänge	4,57 m.	4,57 m.
Gesamtbreite	1,68 m.	1,68 m.
Gesamthöhe	1,34 m.	1,32 m.
Bodenfreiheit	15,9 cm.	15,9 cm.
Wendekreis	10,4 m.	10,4 m.
Leergewicht	1354 kg.	1354 kg.

DB4
COMPENDIO DEI DATI GENERALI

Motore: Sei cilindri, due alberi di distribuzione in testa, testa e blocco cilindri in lega d'aluminio. Diametro cilindri mm. 92. Corsa stantuffo mm. 92. Cilindrata: 3670 c.c.

Berlina e decapotabile standard Tipo DB4: Due carburatori S.U. Rapporto di compressione 8,25:1. Potenza al freno (in Cv. inglesi) 240 a 5500 giri/min.

Vantage DB4 Serie Speciale: Tre carburatori S.U. Rapporto di compressione 9:1. Potenza al freno (in Cv. inglesi) 266 a 5750 giri/min.

Vantage DB4 G.T.: Tre carburatori Weber. Testa con candele in coppia. Rapporto di compressione 9:1. Potenza al freno (in Cv. inglesi) 302 a 6000 giri/min.

Alimentazione: Due pompe ad alta pressione comandate elettricamente. Capacità serbatoio carburante: Berlina, 19 galloni imperiali (86,4 litri); Decapott., 16 galloni imperiali (72,7 litri). Ambedue comprendono una riserva di tre galloni (13,6 litri).

Trasmissione: Frizione: doppio disco cm. 22,86 comandata idraulicamente con corsa a vuoto autoregistrante. Scatola cambio: David Brown a quattro marce sincronizzate. Differenziale: Ingranaggi conici ipoidali. Rapporti a scelta e moltiplicatore facoltativo.

Sospensione: Anteriore indipendente, bracci oscillanti trasversali, molle a spirale ed ammortizzatori telescopici di largo diametro. Sospensione posteriore con articolazioni portanti, a molla a spirale ed ammortizzatori a pistone di largo diametro. Ancoraggio ponte tramite articolazione di Watt.

Sterzo: Tipo Aston Martin a pignone e cremagliera. Ruota del volante con bordo di legno, diametro 40,64 cm. (16 poll).

Freni: Tipo "Dunlop" a disco sia anteriori che posteriori, con servocomando a depressione azionato idraulicamente.

Carrozzeria: Telaio in acciaio a scocca con intelaiatura in acciaio e pannelli in lega leggera.

Dimensioni:

	<i>Decapot.</i>	<i>Berlina</i>
Interasse ruote	2,49 m.	2,49 m.
Carreggiata: Anteriore	1,37 m.	1,37 m.
Posteriore	1,36 m.	1,36 m.
Lunghezza totale	4,57 m.	4,57 m.
Larghezza totale	1,68 m.	1,68 m.
Altezza totale	1,34 m.	1,32 m.
Distanza del suolo	15,9 cm.	15,9 cm.
Diametro di sterzata	10,4 m.	10,4 m.
Peso con rifornimenti	1354 kg.	1354 kg.



By Appointment to
His Royal Highness the Duke of Edinburgh
Motor Car Manufacturer
Aston Martin Lagonda Limited

THE DAVID BROWN

Aston Martin

DB4 CONVERTIBLE

ASTON MARTIN LAGONDA LIMITED, HANWORTH PARK, FELTHAM, MIDDLESEX

TELEPHONE: FELTHAM 3641 • TELEGRAMS: ASTONMARTIA, FELTHAM

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