

CONFIGURATION

Rear-mid engined coupé

Central driving position with two outboard passengers

Rear-wheel drive

DIMENSIONS

Length	4,352 mm	Rear track	1,525 mm
Width	1,850 mm	Ride height	120 mm (front), 140 mm (rear)
Height	1,164 mm	Turning circle	10.9 metres
Wheelbase	2,700 mm	Weight	986 kg
Front track	1,586 mm	Dry weight	957 kg

ENGINE

Type/number	Cosworth GMA
Configuration	V12 semi-structural
V-angle	65°
Capacity	3,994 cc
Bore	81.5 mm
Stroke	63.8 mm
Compression ratio	14:1
Maximum power	650 PS @ 11,500 rpm
Maximum torque	467 Nm @ 9,000 rpm
Power to weight ratio	672 PS per tonne
Weight to power ratio	150 kg per 100 PS
Flexibility	71% of max torque @ 2,500 rpm
Maximum rpm	12,100 rpm
Valve train	Gear driven double overhead camshafts inclined axis four valves per cylinder – Variable valve timing on inlet/exhaust
Induction system	RAM induction airbox – four throttle bodies – Direct Path Induction Sound (DPIS)
Exhaust system	Inconel and Titanium
Lubrication system	Dry sump
Cooling system	Water-cooled - Twin aluminium front radiators
Oil cooling system	Single aluminium rear radiator
Ignition system	12 individual coils 12 volt
Starter/alternator	48 volt gear driven integrated starter/generator
Exhaust emission control	Four catalytic converters with lambda sensors and secondary air injection
Engine block	Aluminium alloy
Cylinder heads	Aluminium alloy
Connection rods	Titanium
Valves	Titanium
Total engine weight	178 kg
Engine mounting	Semi-structural Inclined Axis Shear Mounting (IASM)
Power density	166 PS per litre

TRANSMISSION

Configuration	Transverse with high-speed bevel gears and spur gear final drive	
Speeds	Six forward speeds plus reverse: full synchro mesh	
Gearchange	Manual H pattern with reverse lock-out	
Differential	Limited slip (Salisbury)	
Clutch	184 mm diameter – Triple-plate carbon silicone and titanium	
Driveline	Tripod joints and gun drilled drive shafts	
Casing	Aluminium alloy	
Lubrication	Pumped lubrication	
Oil cooling	Single aluminium alloy radiator	
Ratios	First	2.833:1
	Second	2.095:1
	Third	1.577:1
	Fourth	1.226:1
	Fifth	0.971:1
	Sixth	0.744:1
Input bevel	1.688:1	
Final drive	3.176:1	
Optional overdrive (6th)	0.595:1	
Weight	80.5 kg	

CHASSIS

Front suspension	Double wishbone (forged aluminium alloy)	
	Rising rate pushrod operation	
	Steel coil springs over aluminium dampers	
	Anti-roll bar	
	Forged aluminium alloy uprights	
Rear suspension	Double wishbone (forged aluminium alloy) toe link	
	Rising rate pushrod operation	
	Steel coil springs over aluminium dampers	
	Forged aluminium alloy uprights	
	Inclined Axis Shear Mounting system (IASM)	
Steering	Rack and pinion (LSPA)	
Front brakes	370 mm x 34 mm CCM-R	
	Six-piston air-cooled aluminium alloy Monobloc calliper	
Rear brakes	340 mm x 34 mm CCM-R	
	Four-piston air-cooled aluminium alloy Monobloc calliper	
Hand brake	Manual lever – Flyoff mechanism twin cable	
	Aluminium alloy calliper	
Hubs and bearing carriers	Formula 1 style lightweight hubs – Centre lock nut wheel attachment	
Wheels	Forged aluminium alloy	
	Front 19" diameter x 8.5"	
	Rear 20" diameter x 11"	
Tyres	Michelin Pilot Sport 4 S	
	Front 235/35 R19	
	Rear 295/30 R20	

MONOCOQUE

Multi-part bonded carbon fibre sandwich panels with aluminium honeycomb core

Carbon or metallic inserts

BODY

Monolithic and cored carbon fibre panels

AERODYNAMICS

Ground effect aerodynamics with a Fan Interactive Aero System (FIAS)

Fan	Fixed pitch multi-blade
Fan motor	8.5 kW 48 volt
Fan speed	7,000 rpm (max)
Fan thrust	15 kg
Active diffuser	Electric actuation
Spoilers	Twin rear spoilers (automatic)
Aero modes	Brake boost (automatic)
	Streamline (driver selectable)
	VMAX boost (driver selectable)
	High downforce (driver selectable)
	Test (driver selectable)

FUEL SYSTEM

Aluminium alloy tank 80 litre capacity including six litre reserve - In tank pumps and high-pressure delivery pump

CAPACITIES

Fuel tank	80 litre
Oil capacity	14 litre
Luggage capacity (three occupants)	228 litre
Luggage capacity (two occupants)	288 litre

ISG COOLING

Independent water-cooling system with aluminium radiator and fan

ENGINE COOLING

Water cooling by twin, front aluminium radiators

Electrical fans

Oil cooling by single, rear aluminium radiator

POWER MODULE COOLING

Direct cooling with refrigerant

DRIVER AIDS

Traction control and Electronic Stability Programme (ESP) (switchable)

Anti-lock Braking System (ABS)

Vacuum assisted brakes

Low Speed Power Assisted steering (LSPA)

PRIMARY CONTROLS

350 mm diameter carbon fibre steering wheel

Aluminium alloy brake and clutch pedal - Titanium throttle pedal

Titanium gearchange hand control

SECONDARY CONTROLS

Rotary switches

Engine mode

Aero mode

Lights

HVAC

Windscreen wiper/washer

Infotainment

DISPLAY

Right-hand screen

Infotainment

Left-hand screen

Car

Engine

Aero

Information

SOUND SYSTEM

ARCAM

700 watt, 10 speaker audio system

INSTRUMENTS

120 mm diameter analogue rev counter

POWER MODULE

Combined 12 volt and 48 volt unit with integrated inverter and control system

ISG

20 kW 48 volt - Gear driven from front of crankshaft