



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:	Austin Healey	Model:	100-6
Period of Original Manufacture:	5/1956 – 3/1959		
Motorsport Australia Historic Group:	Sa		
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Update Log

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SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Steel Box section ladder frame with cruciform bracing
Period of Manufacture:	5/1956 – 3/1959
Manufacturer:	BMC
Chassis Number From:	BN4/22880>>>
Chassis Number location:	Firewall
Material:	Steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent front suspension, Upper and lower wishbone		
Spring Medium:	Coil		
Damper Type:	Armstrong – lever arm	Adjustable:	No
Anti-sway bar:	Yes	Adjustable:	Optional
Suspension adjustable:	No	Method:	N/A
Comments:	Spring rates and ride heights may be adjusted		

1.3. REAR SUSPENSION

Description:	Live axle		
Spring Medium:	Semi elliptic leaf		
Damper Type:	Armstrong – lever arm	Adjustable	No
Anti-sway bar:	No	Adjustable:	N/A
Suspension adjustable:	No	Method:	N/A
Comments:	Spring rates and ride heights may be adjusted.		

1.4. STEERING

Type:	Cam and peg	Make:	Austin
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Drum	Drum
Dimensions:	280 mm x 58 mm	280 mm x 58 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	Two	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	Girling	
Caliper type:	Fixed	
Material:	Cast iron	
Master cylinder make:	Girling	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	No	
Comments:	Dual or tandem master cylinders permitted	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	BMC		
Model:	"C" series		
No. cylinders:	Six	Configuration:	In line
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore - Original:	79.37 mm	Max allowed:	80.87 mm
Stroke - original:	88.9 mm	Max allowed:	88.9 mm
Capacity - original:	2639 cc	Max allowed:	2738 cc
Identifying marks:			
Cooling method:	Liquid		
Comments:	None		

2.2. CYLINDER HEAD

Make:	BMC		
No. of valves/cylinder:	Two	Inlet:	One
		Exhaust:	One
No. of ports total:	Six *	Inlet:	Two
		Exhaust:	Four
No. of camshafts:	One	Location:	Block
		Drive:	Chain
Valve actuation:	Pushrod		
Spark plugs/cylinder:	One		
Identifying marks:			
Comments:	12 port head from November 1957. All cars may use 12 port head.		

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	None

2.5. FUEL SYSTEM

Carburettor Make:	SU	Model:	H4
Carburettor Number:	Two		
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:	Dry plate
Diameter:	254 mm
No. of Plates:	One
Actuation:	Mechanical
Comments:	Clutch and method of actuation are free

3.2. TRANSMISSION

Type:	4 speed syncromesh (Laycock and de Normanville overdrive optional)
Make:	BMC
Gearbox location:	Behind engine
No. forward speeds:	Four + overdrive if fitted
Gearchange type and location:	Floor remote
Case material:	Cast iron
Identifying marks:	N/A
Comments:	None

3.3. FINAL DRIVE

Make:	BMC	Model:	
Ratios:	Various		
Differential type:	Hypoid		
Comments:	Limited slip differential permitted		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Tubular with universal joints
Comments:	None

3.5. WHEELS & TYRES

Wheel type - Original:	Pressed steel Wire	Material - Original:	Steel
Wheel type - Allowed:	Wire Steel disc Period alloy	Material - Allowed:	Steel Period alloy
Fixture method:	Central hub Bolt	No. studs:	N/A
Wheel dia. & rim width	FRONT		REAR
Original:	4" x 15"		4" x 15"
Allowed	5" x 15"		5" x 15"
Tyre Section:			
Original:			
Allowed:	195/60 x 15"		195/60 x 15"
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list. Rim size limited to combination that will fit under standard wheel arch. Alloy wheels should be Minilite type.		

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Rear	Capacity:	55 litres
Fuel pump, type:	Electrical	Make:	SU
Comments:	Fuel pumps are free		

4.2. ELECTRICAL SYSTEM

Voltage:	Twelve	Alternator fitted:	Generator
Battery Location:	Behind seats or in boot		
Comments:	None		

4.3. BODYWORK

Type:	Two seat roadster	Material:	Steel
No. of seats:	Two (2+2)	No. doors:	Two
Comments:	The body lines were slightly streamlined, a smaller, wider radiator grille placed lower, an air scoop was added to the bonnet, and the windscreen fixed.		

4.4. DIMENSIONS

Track - Front:	1240 mm	Rear:	1320 mm
Wheelbase:	2336 mm	Overall length:	3800 mm
Dry weight:	1080 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix