



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.

<b>Make of Car:</b>	Austin Healey	<b>Model:</b>	100-6
<b>Period of Original Manufacture:</b>	5/1956 – 3/1959		
<b>Motorsport Australia Historic Group:</b>	Sa		
<b>Date of Issue of this Document:</b>	31/12/2024		



***Update Log***

30/6/2022	Document layout
31/12/2024	Inclusion of kerb and minimum racing weights

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

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

### 1.2. FRONT SUSPENSION

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

### 1.3. REAR SUSPENSION

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

### 1.4. STEERING

<b>Type:</b>	Cam and peg	<b>Make:</b>	Austin
<b>Comments</b>	None		

### 1.5. BRAKES

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

## SECTION 2 - ENGINE

### 2.1. ENGINE

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

### 2.2. CYLINDER HEAD

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

### 2.3. LUBRICATION

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

### 2.4. IGNITION SYSTEM

<b>Type:</b>	Points, Coil and Distributor
<b>Make:</b>	Lucas
<b>Comments:</b>	None

### 2.5. FUEL SYSTEM

<b>Carburettor Make:</b>	SU	<b>Model:</b>	H4
<b>Carburettor Number:</b>	Two		
<b>Size:</b>	2"		
<b>Fuel injection Make:</b>	N/A	<b>Type:</b>	N/A
<b>Supercharged:</b>	No	<b>Type:</b>	N/A
<b>Comments:</b>	None		

**SECTION 3 - TRANSMISSION**

**3.1. CLUTCH**

<b>Make:</b>	Borg and Beck
<b>Type:</b>	Dry plate
<b>Diameter:</b>	254 mm
<b>No. of Plates:</b>	One
<b>Actuation:</b>	Mechanical
<b>Comments:</b>	Clutch and method of actuation are free

**3.2. TRANSMISSION**

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

**3.3. FINAL DRIVE**

<b>Make:</b>	BMC	<b>Model:</b>	
<b>Ratios:</b>	Various		
<b>Differential type:</b>	Hypoid		
<b>Comments:</b>	Limited slip differential permitted		

**3.4. TRANSMISSION SHAFTS (EXPOSED)**

<b>Number:</b>	One
<b>Location:</b>	Gearbox to final drive
<b>Description:</b>	Tubular with universal joints
<b>Comments:</b>	None

**3.5. WHEELS & TYRES**

<b>Wheel type - Original:</b>	Pressed steel Wire	<b>Material - Original:</b>	Steel
<b>Wheel type - Allowed:</b>	Wire Steel disc Period alloy	<b>Material - Allowed:</b>	Steel Period alloy
<b>Fixture method:</b>	Central hub Bolt	<b>No. studs:</b>	N/A
<b>Wheel dia. &amp; rim width</b>	<b>FRONT</b>		<b>REAR</b>
<b>Original:</b>	4" x 15"		4" x 15"
<b>Allowed</b>	5" x 15"		5" x 15"
<b>Tyre Section:</b>			
<b>Original:</b>			
<b>Allowed:</b>	195/60 x 15"		195/60 x 15"
<b>Aspect ratio - minimum:</b>	60% minimum aspect ratio.		
<b>Comments:</b>	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

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

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	Twelve	<b>Alternator fitted:</b>	Generator
<b>Battery Location:</b>	Behind seats or in boot		
<b>Comments:</b>	None		

### 4.3. BODYWORK

<b>Type:</b>	Two seat roadster	<b>Material:</b>	Steel
<b>No. of seats:</b>	Two (2+2)	<b>No. doors:</b>	Two
<b>Comments:</b>	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

<b>Track - Front:</b>	1240 mm	<b>Rear:</b>	1320 mm
<b>Wheelbase:</b>	2336 mm	<b>Overall length:</b>	3800 mm
<b>Approved Manufacturer's kerb weight:</b>	985 kg		
<b>Approved minimum racing weight:</b>	895 kg		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations			
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**Appendix**