



<b>5TH CATEGORY - HISTORIC RACING</b> <b>GROUP S</b> <b>APPROVED VEHICLE SPECIFICATION</b>
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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>	Lenham	<b>Model:</b>	Le Mans GT
<b>Period of Original Manufacture:</b>	1964		
<b>Motorsport Australia Historic Group:</b>	Sb		
<b>Date of Issue of this Document:</b>	30/6/2022		



***Update Log***

30/6/2022	Document layout

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

<b>Description:</b>	Unitary construction
<b>Period of Manufacture:</b>	1964
<b>Manufacturer:</b>	Austin – Healey
<b>Chassis Number From:</b>	AN5 501 (English manufacture) YHAN 1/8/23058/501
<b>Chassis Number location:</b>	English cars – on an “Austin of England” black and silver plate located on the right hand inner wheel arch valence under air cleaners. English cars have “Larke Hoskins” plate on firewall, above brake/clutch master cylinder Australian cars – on a Leyland plate on right hand side of firewall, above windscreen wiper motor
<b>Material:</b>	Steel
<b>Comments</b>	Some 500+ cars so modified

### 1.2. FRONT SUSPENSION

<b>Description:</b>	Independent – wishbone		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Armstrong – lever arm	<b>Adjustable:</b>	No
<b>Anti-sway bar:</b>	Permitted	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	No	<b>Method:</b>	N/A
<b>Comments:</b>	Spring rates and ride heights are free		

### 1.3. REAR SUSPENSION

<b>Description:</b>	Live axle with quarter elliptic springs and upper radius		
<b>Spring Medium:</b>	Quarter elliptic		
<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 medium semi-elliptic from 1968. Spring rates and ride heights are free.		

### 1.4. STEERING

<b>Type:</b>	Rack and pinion	<b>Make:</b>	BMC
<b>Comments</b>	None		

### 1.5. BRAKES

	Front	Rear
<b>Type:</b>	Disc	Drum
<b>Dimensions:</b>	210 mm	178 mm x 32 mm
<b>Material of drum/disc:</b>	Cast iron	Cast iron
<b>No. cylinders/pots per wheel:</b>	One	One
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper make:</b>	Lockheed	
<b>Caliper type:</b>	Fixed	
<b>Material:</b>	Cast iron	
<b>Master cylinder make:</b>	Lockheed	
<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>	"A" series		
<b>No. cylinders:</b>	Four	<b>Configuration:</b>	In line
<b>Cylinder Block-material:</b>	Cast iron	<b>Two/Four Stroke:</b>	Four
<b>Bore – Original – M II &amp; Mk III (1098cc):</b>	62.94 mm	<b>Max allowed:</b>	64.58 mm
<b>Stroke – original – Mk II&amp; Mk III (1098cc):</b>	83.7 mm	<b>Max allowed:</b>	83.7 mm
<b>Capacity – original Mk II &amp; Mk III (1098cc):</b>	1098 cc	<b>Max allowed:</b>	1149 cc
<b>Bore – Original – Mk IV (1275cc):</b>	70.7 mm	<b>Max allowed:</b>	72.1 mm
<b>Stroke – original – Mk IV (1275cc):</b>	81.3 mm	<b>Max allowed:</b>	81.3 mm
<b>Capacity – original Mark IV (1275cc):</b>	1275 cc	<b>Max allowed:</b>	1328 cc
<b>Identifying marks:</b>	950 cast on manifold side of block		
<b>Cooling method:</b>	Liquid		
<b>Comments:</b>	Engine re-mounted approximately 90 mm rearwards from standard Sprite/Midget position		

### 2.2. CYLINDER HEAD

<b>Make:</b>	BMC		
<b>No. of valves/cylinder:</b>	Two	<b>Inlet:</b>	One
<b>No. of ports total:</b>	Five	<b>Inlet:</b>	Two
<b>No. of camshafts:</b>	One	<b>Location:</b>	Block
<b>Valve actuation:</b>	OHV - Pushrod		
<b>Spark plugs/cylinder:</b>	One		
<b>Identifying marks:</b>			
<b>Comments:</b>	None		

### 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>	Make of Coil/Distributor may be changed		

### 2.5. FUEL SYSTEM

<b>Carburettor Make:</b>	SU	<b>Model:</b>	HS2
<b>Carburettor Number:</b>	Two		
<b>Size:</b>	1.125"		
<b>Fuel injection Make:</b>	N/A	<b>Type:</b>	N/A
<b>Supercharged:</b>	No	<b>Type:</b>	N/A
<b>Comments:</b>	Carburettor bore sizes are free. Sinlge Weber 45DCOE is approved alternative		

**SECTION 3 - TRANSMISSION**

**3.1. CLUTCH**

<b>Make:</b>	Borg and Beck
<b>Type:</b>	Coil spring
<b>Diameter:</b>	156 mm
<b>No. of Plates:</b>	One
<b>Actuation:</b>	Hydraulic
<b>Comments:</b>	Clutch and method of actuation are free

**3.2. TRANSMISSION**

<b>Type:</b>	4 speed syncromesh
<b>Make:</b>	BMC 'A' series
<b>Gearbox location:</b>	Behind engine
<b>No. forward speeds:</b>	Four
<b>Gearchange type and location:</b>	Floor remote
<b>Case material:</b>	Aluminium
<b>Identifying marks:</b>	"Smooth case"
<b>Comments:</b>	Ratios are free

**3.3. FINAL DRIVE**

<b>Make:</b>	BMC	<b>Model:</b>	BMC 'A' series
<b>Ratios:</b>	3.7: 3.9: 4.2: 4.875: 5.125: 5.325		
<b>Differential type:</b>	Hypoid bevel		
<b>Comments:</b>	Limited slip differential permitted. Ratios free		

**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 spoke	<b>Material - Original:</b>	Steel
<b>Wheel type - Allowed:</b>	Pressed steel Wire spoke Period alloy	<b>Material - Allowed:</b>	Steel Period alloy
<b>Fixture method:</b>	Bolt on Centre lock	<b>No. studs:</b>	Four
<b>Wheel dia. &amp; rim width</b>	<b>FRONT</b>	<b>REAR</b>	
<b>Original:</b>	3.5" x 13" 4" x 13"	3.5" x 13" 4" x 13"	
<b>Allowed</b>	5" x 13"	5" x 13"	
<b>Tyre Section:</b>			
<b>Original:</b>	5.20 x 13"	5.20 x 13"	
<b>Allowed:</b>	165/60 x 13"	165/60 x 13"	
<b>Aspect ratio - minimum:</b>	60% minimum aspect ratio.		
<b>Comments:</b>	Refer approved tyre list.		

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

<b>Tank Location:</b>	Rear	<b>Capacity:</b>	27.3 litres
<b>Fuel pump, type:</b>	Mechanical	<b>Make:</b>	AC
<b>Comments:</b>	Fuel pumps are free		

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	Twelve	<b>Alternator fitted:</b>	Generator Alternator
<b>Battery Location:</b>	Engine bay		
<b>Comments:</b>	None		

### 4.3. BODYWORK

<b>Type:</b>	Two seat fixed head Coupe	<b>Material:</b>	Steel/GRP
<b>No. of seats:</b>	Two	<b>No. doors:</b>	Two
<b>Comments:</b>	Body number is pressed into the panelwork of the vehicle on the left hand side, left of the wiring loom. English cars – two body numbers. There is also a number inside the front door pillar		

### 4.4. DIMENSIONS

<b>Track - Front:</b>	1160 mm	<b>Rear:</b>	1142 mm
<b>Wheelbase:</b>	2030 mm	<b>Overall length:</b>	3490 mm
<b>Dry weight:</b>	635/685 kg		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
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**Appendix**