



5TH CATEGORY - HISTORIC RACING  
**GROUP S**  
 APPROVED VEHICLE SPECIFICATION

<b>Make of Car:</b>	Austin Healey	<b>Model:</b>	3000 Mark 2 3000 Mark 3/3A
<b>Period of Original Manufacture:</b>	3000 Mark 2 – March 1961 - September 1963 3000 Mark 3/3A – October 1963 - March 1968		
<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>	Steel Box section ladder frame with cruciform bracing
<b>Period of Manufacture:</b>	3000 Mark 2 – March 1961 - September 1963 3000 Mark 3/3A – October 1963 - March 1968
<b>Manufacturer:</b>	BMC
<b>Chassis Number From:</b>	13991>>>43025
<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 with Panhard rod		
<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. Fore and aft location permitted. Radius arms replace Panhard rod and chassis under rear axle from Chassis Nnbr 26705		

### 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>	Disc	Drum
<b>Dimensions:</b>	280 mm	280 mm x 60 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. Servo 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>	83.34 mm	<b>Max allowed:</b>	84.84 mm
<b>Stroke - original:</b>	88.9 mm	<b>Max allowed:</b>	88.9 mm
<b>Capacity - original:</b>	2912 cc	<b>Max allowed:</b>	3052 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>	Twelve	<b>Inlet:</b>	Six	<b>Exhaust:</b>	Six
<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>	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>	None

### 2.5. FUEL SYSTEM

<b>Carburettor Make:</b>	SU	<b>Model:</b>	HS6 x 2 HS4 x 3 HD8 x 2
<b>Carburettor Number:</b>	Two or Three		
<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>	Carburettor bore sizes are free. All models may fit 2 or 3 SU carburettors		

## 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>	Ratios are free

### 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>	Sports roadster	<b>Material:</b>	Steel
<b>No. of seats:</b>	Two or 2+2	<b>No. doors:</b>	Two
<b>Comments:</b>	None		

### 4.4. DIMENSIONS

<b>Track - Front:</b>	1240 mm	<b>Rear:</b>	1320 mm
<b>Wheelbase:</b>	2330 mm	<b>Overall length:</b>	3800 mm
<b>Dry weight:</b>	1080 kg		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
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**Appendix**