



<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>	Sunbeam Alpine	<b>Model:</b>	Series IV Series V
<b>Period of Original Manufacture:</b>	Series IV –1964 - 1965 Series V – 1965 - 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>	
<b>Period of Manufacture:</b>	Series IV –1964 - 1965 Series V – 1965 - 1968
<b>Manufacturer:</b>	Rootes Group Ltd
<b>Chassis Number From:</b>	Series IV – B9400001 – B94102470 Series V –B3950001 – B395019122
<b>Chassis Number location:</b>	Plate on top of bulkhead
<b>Material:</b>	Mild steel
<b>Comments</b>	None

**1.2. FRONT SUSPENSION**

<b>Description:</b>	Independent front suspension, twin wishbone		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Telescopic	<b>Adjustable:</b>	No
<b>Anti-sway bar:</b>	Fitted	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	Yes	<b>Method:</b>	Shims
<b>Comments:</b>	S;pring rate and ride height free		

**1.3. REAR SUSPENSION**

<b>Description:</b>	Live axle		
<b>Spring Medium:</b>	Semi elliptic leaf		
<b>Damper Type:</b>	Lever	<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>	For and aft location may be improved S;pring rate and ride height free		

**1.4. STEERING**

<b>Type:</b>	Recirculating ball	<b>Make:</b>	Burman "F"
<b>Comments</b>	None		

**1.5. BRAKES**

	<b>Front</b>	<b>Rear</b>
<b>Type:</b>	Disc	Drum
<b>Dimensions:</b>	263 mm	228 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>	Girling	
<b>Caliper type:</b>		
<b>Material:</b>	Cast iron	
<b>Master cylinder make:</b>	Girling	
<b>Type:</b>	Single	
<b>Adjustable bias:</b>	No	
<b>Servo Fitted:</b>	Yes	
<b>Comments:</b>	Tandem or twin master cylinders allowed	

**SECTION 2 - ENGINE**

**2.1. ENGINE**

<b>Make:</b>	Rootes Group		
<b>Model:</b>			
<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 - SIV:</b>	82 mm	<b>Max allowed:</b>	83.5 mm
<b>Stroke – original - SIV:</b>	76 mm	<b>Max allowed:</b>	76.2 mm
<b>Capacity – original – S1V:</b>	1592 cc	<b>Max allowed:</b>	1664 cc
<b>Bore – Original - SV:</b>	82 mm	<b>Max allowed:</b>	83.5 mm
<b>Stroke – original - SV:</b>	83 mm	<b>Max allowed:</b>	82.55 mm
<b>Capacity – original – SV:</b>	1724 cc	<b>Max allowed:</b>	1818 cc
<b>Identifying marks:</b>			
<b>Cooling method:</b>	Liquid		
<b>Comments:</b>	None		

**2.2. CYLINDER HEAD**

<b>Make:</b>	Rootes Group				
<b>No. of valves/cylinder:</b>	Two	<b>Inlet:</b>	One	<b>Exhaust:</b>	One
<b>No. of ports total:</b>	Eight	<b>Inlet:</b>	Four	<b>Exhaust:</b>	Four
<b>No. of camshafts:</b>	One	<b>Location:</b>	Block	<b>Drive:</b>	Chain
<b>Valve actuation:</b>	Overhead valve				
<b>Spark plugs/cylinder:</b>	One				
<b>Identifying marks:</b>	N/A				
<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>	None		

**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>	Stromberg	<b>Model:</b>	150CD
<b>Carburettor Number:</b>	Two		
<b>Size:</b>	150CD		
<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>	Diaphragm
<b>Diameter:</b>	190.5 mm
<b>No. of Plates:</b>	One
<b>Actuation:</b>	Hydraulic
<b>Comments:</b>	None

### 3.2. TRANSMISSION

<b>Type:</b>	Syncromesh
<b>Make:</b>	Rootes
<b>Gearbox location:</b>	Behind engine
<b>No. forward speeds:</b>	Four
<b>Gearchange type and location:</b>	Central remote
<b>Case material:</b>	Cast iron
<b>Identifying marks:</b>	N/A
<b>Comments:</b>	Laycock De-Normanville overdrive optional

### 3.3. FINAL DRIVE

<b>Make:</b>	Salisbury	<b>Model:</b>	
<b>Wheel drive method:</b>	Rear		
<b>Ratios:</b>	Free		
<b>Differential type:</b>	Hypoid bevel - Free		
<b>Comments:</b>	None		

### 3.4. TRANSMISSION SHAFTS (EXPOSED)

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

### 3.5. WHEELS & TYRES

<b>Wheel type - Original:</b>	Disc Wire spoke	<b>Material - Original:</b>	Steel
<b>Wheel type - Allowed:</b>	Disc Wire spoke	<b>Material - Allowed:</b>	Steel Cast alloy
<b>Fixture method:</b>	Studs Centre lock	<b>No. studs:</b>	4
<b>Wheel dia. &amp; rim width</b>	<b>FRONT</b>		<b>REAR</b>
<b>Original:</b>	4.5" x 13"		4.5" x 13"
<b>Allowed</b>	6.0" x 13"		6.0" x 13"
<b>Tyre Section:</b>			
<b>Original:</b>	560 x 13"		560 x 13"
<b>Allowed:</b>	185 x 13"		185 x 13"
<b>Aspect ratio - minimum:</b>	60% minimum aspect ratio.		
<b>Comments:</b>	Refer approved tyre list. Cast wheels to be Minilite style		

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

<b>Tank Location:</b>	Rear	<b>Capacity:</b>	42 litres
<b>Fuel pump, type:</b>	Mechanical	<b>Make:</b>	AC
<b>Comments:</b>	Electric pump allowed		

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	Twelve	<b>Alternator fitted:</b>	Alternator
<b>Battery Location:</b>	Behind driver's seat in battery box		
<b>Comments:</b>	None		

### 4.3. BODYWORK

<b>Type:</b>	Open sports	<b>Material:</b>	Mild Steel
<b>No. of seats:</b>	Two	<b>No. doors:</b>	Two
<b>Comments:</b>	Factory hardtop allowed		

### 4.4. DIMENSIONS

<b>Track - Front:</b>	1295 mm	<b>Rear:</b>	1232 mm
<b>Wheelbase:</b>	2185 mm	<b>Overall length:</b>	3937 mm
<b>Dry weight:</b>	988 kg		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
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**Appendix**