



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

Make of Car:	Sunbeam Alpine	Model:	Series IV Series V
Period of Original Manufacture:	Series IV –1964 - 1965 Series V – 1965 - 1968		
Motorsport Australia Historic Group:	Sb		
Date of Issue of this Document:	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

Description:	
Period of Manufacture:	Series IV –1964 - 1965 Series V – 1965 - 1968
Manufacturer:	Rootes Group Ltd
Chassis Number From:	Series IV – B9400001 – B94102470 Series V –B3950001 – B395019122
Chassis Number location:	Plate on top of bulkhead
Material:	Mild steel
Comments	None

1.2. FRONT SUSPENSION

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

1.3. REAR SUSPENSION

Description:	Live axle		
Spring Medium:	Semi elliptic leaf		
Damper Type:	Lever	Adjustable	No
Anti-sway bar:	No	Adjustable:	N/A
Suspension adjustable:	No	Method:	N/A
Comments:	For and aft location may be improved Spring rate and ride height free		

1.4. STEERING

Type:	Recirculating ball	Make:	Burman "F"
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc	Drum
Dimensions:	263 mm	228 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	One	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	Girling	
Caliper type:		
Material:	Cast iron	
Master cylinder make:	Girling	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:	Tandem or twin master cylinders allowed	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Rootes Group		
Model:			
No. cylinders:	Four	Configuration:	In line
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore – Original - SIV:	82 mm	Max allowed:	83.5 mm
Stroke – original - SIV:	76 mm	Max allowed:	76.2 mm
Capacity – original – S1V:	1592 cc	Max allowed:	1664 cc
Bore – Original - SV:	82 mm	Max allowed:	83.5 mm
Stroke – original - SV:	83 mm	Max allowed:	82.55 mm
Capacity – original – SV:	1724 cc	Max allowed:	1818 cc
Identifying marks:			
Cooling method:	Liquid		
Comments:	None		

2.2. CYLINDER HEAD

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

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:	None		

2.4. IGNITION SYSTEM

Type:	Points, Coil and Distributor
Make:	Lucas
Comments:	None

2.5. FUEL SYSTEM

Carburettor Make:	Stromberg	Model:	150CD
Carburettor Number:	Two		
Size:	150CD		
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:	Diaphragm
Diameter:	190.5 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	None

3.2. TRANSMISSION

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

3.3. FINAL DRIVE

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

3.4. TRANSMISSION SHAFTS (EXPOSED)

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

3.5. WHEELS & TYRES

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

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SECTION 4 GENERAL

4.1. FUEL SYSTEM

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

4.2. ELECTRICAL SYSTEM

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

4.3. BODYWORK

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

4.4. DIMENSIONS

Track - Front:	1295 mm	Rear:	1232 mm
Wheelbase:	2185 mm	Overall length:	3937 mm
Approved Manufacturer's kerb weight:	1018 kg		
Approved minimum racing weight:	923 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix