

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.

Make of Car:	Sunbeam Alpine	Model:	Series I
			Series II
Period of Original Manufacture:	Series I – July 1959 – October 1960		
	Series II – October 1960 – March 1963		
Motorsport Australia Historic Group:	p: Sa		
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Update Log

30/6/2022	Document layout

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Platform – unitary construction	
Period of Manufacture:	Series I – July 1959 – October 1960	
	Series II – October 1960 – March 1963	
Manufacturer:	Rootes Group Ltd	
Chassis Number From:	Series I – B9000001 – B9011904	
	Series II -B9100001 - B9119956	
Chassis Number location:	Plate on top of bulkhead	
Material:	Mild steel	
Comments	None	

1.2. FRONT SUSPENSION

Description:	Independent -	Independent – wishbone			
Spring Medium:	Coil	Coil			
Damper Type:	Telescopic	Telescopic Adjustable: No			
Anti-sway bar:	Fitted	Fitted		No	
Suspension adjustable:	Yes	Method:	Shims		
Comments:	None				

1.3. REAR SUSPENSION

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

1.4. STEERING

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

1.5. BRAKES

	Front	Rear		
Type:	Disc	Drum		
Dimensions:	242 mm	230 mm		
Material of drum/disc:	Cast iron	Cast iron		
No. cylinders/pots per wheel:	Two	Two		
Actuation:	Hydraulic	Hydraulic		
Caliper make:	Girling			
Caliper type:				
Material:	Cast iron	Cast iron		
Master cylinder make:	Girling			
Туре:	Single	Single		
Adjustable bias:	No	No		
Servo Fitted:	Optional	Optional		
Comments:	Tandem or twin master cylind	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 - SI:	79.0 mm	Max allowed:	80.5 mm	
Stroke – original - SI:	76.2 mm	Max allowed:	76.2 mm	
Capacity – original – S1:	1494 cc	Max allowed:	1550 cc	
Bore – Original - SII:	81.5 mm	Max allowed:	83.0 mm	
Stroke – original - SII:	76.2 mm	Max allowed:	76.2 mm	
Capacity – original – S1I:	1592 cc	Max allowed:	1646 cc	
Identifying marks:				
Cooling method:	Liquid			
Comments:	1725 engine is not eligible in SI/SII cars.			
	Identified by oil dipstick located in block, as distinct from sump in			
	1500/1600 engines.			
	Also has 5 grub screws along	g right side main oil galler	Ϋ́	

2.2. CYLINDER HEAD

Make:	Rootes	Rootes Group					
No. of valves/cylinder:	Two	Two Inlet: One Exhaust: One					
No. of ports total:	Eight	Inlet:	Four	Exhaust:	Four		
No. of camshafts:	One	Location:	Block	Drive:	Chain		
Valve actuation:	Pushro	Pushrod and rockers					
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:	Zenith	Model:	WIA	
Carburettor Number:	Two			
Size:	36 mm			
Fuel injection Make:	N/A	Type:	N/A	
Supercharged:	No	Туре:	N/A	
Comments:	None			

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Borg and Beck
Type:	Diaphragm
Diameter:	203 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	None

3.2. TRANSMISSION

Type:	Syncromesh (2 nd , 3 rd , 4 th)	
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:	Rootes	Model:	
Wheel drive method:	Rear		
Ratios:	4.44, 4.22, 3.89, 3.7		
Differential type:	Hypoid bevel - Free		
Comments:	Replacement or rear axles assembly with MG type is not authorised		

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	Material - Original:	Steel
	Wire spoke		
Wheel type - Allowed:	Disc	Material - Allowed:	Steel
	Wire spoke		
Fixture method:	Studs	No. studs:	4
	Centre lock		
Wheel dia. & rim width	FRONT	FRONT	
Original:	4.0" x 13"	4.0" x 13"	
Allowed	5.0" x 13"	5.0" x 13"	
Tyre Section:			
Original:	5.60/5.90	5.60/5.90	
Allowed:	185		185
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list.		

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SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Rear	Capacity:	42 litres
Fuel pump, type:	Mechanical	Make:	AC
Comments:	None		

4.2. ELECTRICAL SYSTEM

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

4.3. BODYWORK

Туре:	Two seater roadster	Material:	Steel
No. of seats:	Two	No. doors:	Two
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1295 mm	Rear:	1233 mm
Wheelbase:	2184 mm	Overall length:	3943 mm
Dry weight:	954 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix