



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:	Marcos	Model:	1800
Period of Original Manufacture:	1964 - 1966		
Motorsport Australia Historic Group:	Sb		
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Update Log

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SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Semi monocoque
Period of Manufacture:	1964 - 1966
Manufacturer:	Marcos
Chassis Number From:	4001
Chassis Number location:	LHS 'A' pillar
Material:	Wood and Mild steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent front suspension – twin wishbones		
Spring Medium:	Coil		
Damper Type:	Tubular	Adjustable:	Optional
Anti-sway bar:	Yes	Adjustable:	No
Suspension adjustable:	No	Method:	N/A
Comments:	Spring rates and ride height are free		

1.3. REAR SUSPENSION

Description:	De Dion and Live axle with leading arms		
Spring Medium:	Coil		
Damper Type:	Tubular	Adjustable	Optional
Anti-sway bar:	No	Adjustable:	N/A
Suspension adjustable:	No	Method:	N/A
Comments:	Spring rates and ride height are free		

1.4. STEERING

Type:	Rack and pinion	Make:	Alford and Alder
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc	Drum
Dimensions:	235 mm	203 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	One	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	Girling	
Caliper type:	Fixed	
Material:	Cast iron	
Master cylinder make:	Girling	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:	Twin master cylinder allowed	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Volvo		
Model:	B18		
No. cylinders:	Four	Configuration:	In line
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore – Original – B18:	84.14 mm	Max allowed:	85.64 mm
Stroke – original – B18:	80.0 mm	Max allowed:	80.0 mm
Capacity – original – B18:	1780 cc	Max allowed:	1842 cc
Identifying marks:	B18		
Cooling method:	Liquid		
Comments:	None		

2.2. CYLINDER HEAD

Make:	Volvo				
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:	Gear
Valve actuation:	Pushrod				
Spark plugs/cylinder:	One				
Identifying marks:					
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:	Bosch
Comments	None

2.5. FUEL SYSTEM

Carburettor Make:	SU	Model:	HS4
Carburettor Number:	Two		
Size:	1 ½"		
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:	203 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	None

3.2. TRANSMISSION

Type:	Volvo
Make:	M40 or M41
Gearbox location:	Behind engine
No. forward speeds:	Four + overdrive
Gearchange type and location:	Remote – central shift
Case material:	Alloy
Identifying marks:	
Comments:	None

3.3. FINAL DRIVE

Make:	Ford	Model:	Cortina
Wheel drive method:	Rear		
Ratios:	Various		
Differential type:	Hypoid bevel		
Comments:	Ratios free Limited slip differential allowed		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Tubular tailshaft with universal joints
Comments:	None

3.5. WHEELS & TYRES

Wheel type - Original:	Disc	Material - Original:	Steel Alloy
Wheel type - Allowed:	Cast alloy	Material - Allowed:	Aluminium Alloy
Fixture method:	Bolt on Centre lock	No. studs:	Five
Wheel dia. & rim width	FRONT		REAR
Original:	4.5" x 13" 5.5" x 13"		4.5" x 13" 5.5" x 13"
Allowed	6.00" x 13"		6.00" x 13"
Tyre Section:			
Original:	165 x 13 175 x 13		165 x 13 175 x 13
Allowed:	185 x 13		185 x 13
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list. Rim size and tyre limited to combination that will fit under standard wheel arch. Alloy wheels should be Minilite or Cosmic type		

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Rear	Capacity:	37 litres
Fuel pump, type:	Mechanical – on block	Make:	Volvo
Comments:	None		

4.2. ELECTRICAL SYSTEM

Voltage:	Twelve	Alternator fitted:	Alternator
Battery Location:	Engine bay		
Comments:	None		

4.3. BODYWORK

Type:	Fixed head Coupe	Material:	Steel
No. of seats:	Two	No. doors:	Two
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1238 mm	Rear:	1295 mm
Wheelbase:	2273 mm	Overall length:	4077 mm
Dry weight:	820 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix