



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:	Volvo	Model:	P1800 P1800S P1800E
Period of Original Manufacture:	1960 – 1963 – P1800 1963 – 1969 – 1800S 1969 – 1972 – 1800E		
Motorsport Australia Historic Group:	Sb		
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Update Log

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SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Unitary construction		
Period of Manufacture:	1960 – 1963 – P1800 1963 – 1969 – 1800S 1969 – 1972 – 1800E		
Manufacturer:	Volvo		
Chassis Number From:			
Chassis Number location:	LHS 'A' pillar		
Material:	Steel		
Comments	None		

1.2. FRONT SUSPENSION

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

1.3. REAR SUSPENSION

Description:	Live axle – trailing arms		
Spring Medium:	Coil		
Damper Type:	Telescopic	Adjustable	Optional
Anti-sway bar:	No	Adjustable:	N/A
Suspension adjustable:	No	Method:	N/A
Comments:	None		

1.4. STEERING

Type:	Cam and roller	Make:	Volvo
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc	Disc
Dimensions:	268.5 mm	295.5 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	Four	Four
Actuation:	Hydraulic	Hydraulic
Caliper make:	ATE	
Caliper type:	Fixed	
Material:	Cast iron	
Master cylinder make:	ATE	
Type:	Tandem (split circuit)	
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:	None	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Volvo		
Model:	1960 – 1963 – P1800 – B18 1963 – 1969 – 1800S – B18 1969 – 1972 – 1800E – B20		
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		
Bore – Original – B20:	88.9 mm	Max allowed:	90.4 mm
Stroke – original – B20:	80.0 mm	Max allowed:	80.0 mm
Capacity – original – B20:	1988 cc	Max allowed:	2052 cc
Identifying marks:	B20		
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 – P1800, P1800S:	SU	Model:	HS4
Carburettor Number:	Two		
Size:	1 ½"		
Fuel injection Make – 1800E only:	Bosch	Type:	Electronic
Supercharged:	No	Type:	N/A
Comments:	None		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Various
Type:	Diaphragm
Diameter:	220 mm
No. of Plates:	One
Actuation:	Mechanical – cable
Comments:	None

3.2. TRANSMISSION

Type:	Volvo
Make:	M40
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:	Volvo	Model:	
Wheel drive method:	Rear		
Ratios:	Various		
Differential type:	Hypoid		
Comments:	None		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Tubular (split) tailshaft with universal joints
Comments:	

3.5. WHEELS & TYRES

Wheel type - Original:	Steel	Material - Original:	Steel
Wheel type - Allowed:	Period alloy	Material - Allowed:	Alloy
Fixture method:	Bolt on	No. studs:	Five
Wheel dia. & rim width	FRONT		REAR
Original:	5.5" x 15"		5.5" x 15"
Allowed	6.00" x 15"		6.00" x 15"
Tyre Section:			
Original:	165 x 15		165 x 15
Allowed:	185 x 15		185 x 15
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list.		

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Rear	Capacity:	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 (plus two “occasional” seats)	No. doors:	Two
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1310 mm	Rear:	1310 mm
Wheelbase:	2450 mm	Overall length:	4350 mm
Dry weight:	1170 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix