



5TH CATEGORY - HISTORIC RACING
GROUP N
 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:	Valiant	Model:	S Series (SV1)
Period of Original Manufacture:	March 1962 – April 1963		
Motorsport Australia Historic Group:	Nb		
Date of Issue of this Document:			



Refer to Motorsport Australia Manual of Motor Sport, Vehicle Eligibility, Historic Touring Cars, General Requirements & Nc Regulations for permitted modifications.

Update Log

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Unitary construction
Period of Manufacture:	March 1962 – April 1963
Manufacturer:	Chrysler Australia
Chassis Number From:	SV1-(1, or 2)-101
Chassis Number location:	Radiator support panel (early models) RH inner guard
Material:	Steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent - upper wishbone & lower arm with castor rod		
Spring Medium:	N/A		
Damper Type:	Telescopic	Adjustable:	N/A
Anti-sway bar:	No	Adjustable:	N/A
Suspension adjustable:	No	Method:	Caster, camber and toe
Comments:	Refer to Appendix A		

1.3. REAR SUSPENSION

Description:	Live rear axle		
Spring Medium:	Semi elliptical leaf		
Damper Type:	Telescopic	Adjustable:	No
Anti-sway bar:	No	Adjustable:	N/A
Suspension adjustable:	No	Method:	N/A
Comments:	Refer to Appendix A		

1.4. STEERING

Type:	Recirculating ball	Make:	Chrysler
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Drum	Drum
Dimensions:	228.6 mm X 63.5 mm	228.6 mm X 50.8 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	One	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	N/A	
Caliper type:	N/A	
Material:	N/A	
Master cylinder make:	Chrysler	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	Optional	
Comments:	None	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Chrysler		
Model:	G – Slant 6 - 225		
No. cylinders:	Six	Configuration:	In line
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore - Original:	86.36 cc	Max allowed:	87.86 cc
Stroke - original:	104.77 cc	Max allowed:	104.77 cc
Capacity - original:	3686 cc	Max allowed:	
Identifying marks:	SP1, or SP2 Front of block		
Cooling method:	Liquid		
Comments:			

2.2. CYLINDER HEAD

Make:	Chrysler		
No. of valves/cylinder:	Two	Inlet: One	Exhaust: One
No. of ports total:	Six	Inlet: Three	Exhaust: Three
No. of camshafts:	One	Location: Block	Drive: Chain
Valve actuation:	Pushrod and rocker		
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, distributor & coil
Make:	Optional
Comments	Breakerless electronic ignition permitted

2.5. FUEL SYSTEM

Carburettor Make:	Carter	Model:	BBS
Carburettor Number:	One		
Size:	Various		
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:	235 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	none

3.2. TRANSMISSION

Type:	Manual Automatic
Make:	Chrysler
Gearbox location:	Behind engine
No. forward speeds:	Three
Gearchange type and location:	Manual – Column Auto – push button
Case material:	Cast iron
Identifying marks:	N/A
Comments:	None

3.3. FINAL DRIVE

Make:	Chrysler	Model:	N/A
Type:	Live rear axle		
Ratios:	Various		
Differential type:	Semi floating hypoid		
Comments:	None		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Open tail shaft with twin uni joints
Comments:	None

3.5. WHEELS & TYRES

Wheel type - Original:	Pressed disc	Material - Original:	Steel
Wheel type - Allowed:	Steel Alloy (period style)	Material - Allowed:	Steel Alloy
Fixture method:	Stud and nut	No. studs:	Five
Wheel dia. & rim width	FRONT		REAR
Original:	4.5" x 14"		4.5" x 14"
Allowed	6" x 14"		6" x 14"
Tyre Section:			
Allowed:	Refer approved tyre list.		
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	None		

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Under boot floor	Capacity:	53 litres
Fuel pump, type:	Mechanical on block	Make:	Chrysler
Comments:	None		

4.2. ELECTRICAL SYSTEM

Voltage:	12	Alternator fitted:	Alternator
Battery Location:	Engine bay		
Comments:	None		

4.3. BODYWORK

Type:	Sedan	Material:	Steel
No. of seats:	Five	No. doors:	Four
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1420 mm	Rear:	1412 mm
Wheelbase:	2705 mm	Overall length:	4679 mm
Dry weight:	Manual - 1227 kg Auto – 1184 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix A

Suspension

Front

Spring height adjustment permitted.

Rear

Spring height adjustment permitted.