



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.

<b>Make of Car:</b>	Valiant	<b>Model:</b>	S Series (SV1)
<b>Period of Original Manufacture:</b>	March 1962 – April 1963		
<b>Motorsport Australia Historic Group:</b>	Nb		
<b>Date of Issue of this Document:</b>	1 January 2024		



Refer to The *Manual*, Historic Appendix, Vehicle Eligibility, General Requirements & Historic Touring Cars Group N Regulations for permitted modifications.

***Update Log***

1/1/2024	Inclusion of kerb and minimum racing weights

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

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

### 1.2. FRONT SUSPENSION

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

### 1.3. REAR SUSPENSION

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

### 1.4. STEERING

<b>Type:</b>	Recirculating ball	<b>Make:</b>	Chrysler
<b>Comments</b>	None		

### 1.5. BRAKES

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

**SECTION 2 - ENGINE**

**2.1. ENGINE**

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

**2.2. CYLINDER HEAD**

<b>Make:</b>	Chrysler		
<b>No. of valves/cylinder:</b>	Two	<b>Inlet:</b>	One
		<b>Exhaust:</b>	One
<b>No. of ports total:</b>	Six	<b>Inlet:</b>	Three
		<b>Exhaust:</b>	Three
<b>No. of camshafts:</b>	One	<b>Location:</b>	Block
		<b>Drive:</b>	Chain
<b>Valve actuation:</b>	Pushrod and rocker		
<b>Spark plugs/cylinder:</b>	One		
<b>Identifying marks:</b>	N/A		
<b>Comments:</b>	None		

**2.3. LUBRICATION**

<b>Method:</b>	Wet sump	<b>Oil tank location:</b>	N/A
<b>Dry sump pump type:</b>	N/A	<b>Location:</b>	N/A
<b>Oil cooler standard:</b>	No	<b>Location:</b>	N/A
<b>Comments:</b>	None		

**2.4. IGNITION SYSTEM**

<b>Type:</b>	Points, distributor & coil
<b>Make:</b>	Optional
<b>Comments</b>	Breakerless electronic ignition permitted

**2.5. FUEL SYSTEM**

<b>Carburettor Make:</b>	Carter	<b>Model:</b>	BBS
<b>Carburettor Number:</b>	One		
<b>Size:</b>	Various		
<b>Fuel injection Make:</b>	N/A	<b>Type:</b>	N/A
<b>Supercharged:</b>	No	<b>Type:</b>	N/A
<b>Comments:</b>	None		

**SECTION 3 - TRANSMISSION**

**3.1. CLUTCH**

<b>Make:</b>	Borg and Beck
<b>Type:</b>	Diaphragm
<b>Diameter:</b>	235 mm
<b>No. of Plates:</b>	One
<b>Actuation:</b>	Hydraulic
<b>Comments:</b>	none

**3.2. TRANSMISSION**

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

**3.3. FINAL DRIVE**

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

**3.4. TRANSMISSION SHAFTS (EXPOSED)**

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

**3.5. WHEELS & TYRES**

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

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

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

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	12	<b>Alternator fitted:</b>	Alternator
<b>Battery Location:</b>	Engine bay		
<b>Comments:</b>	None		

### 4.3. BODYWORK

<b>Type:</b>	Sedan	<b>Material:</b>	Steel
<b>No. of seats:</b>	Five	<b>No. doors:</b>	Four
<b>Comments:</b>	None		

### 4.4. DIMENSIONS

<b>Track - Front:</b>	1420 mm	<b>Rear:</b>	1412 mm
<b>Wheelbase:</b>	2705 mm	<b>Overall length:</b>	4679 mm
<b>Approved Manufacturer's kerb weight:</b>	Auto – 1184 kgs Manual – 1227 kgs		
<b>Approved minimum racing weight:</b>	Auto – 1160 kgs Manual – 1202 kgs		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
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**Appendix A**

**Suspension**

**Front**

Spring height adjustment permitted.

**Rear**

Spring height adjustment permitted.