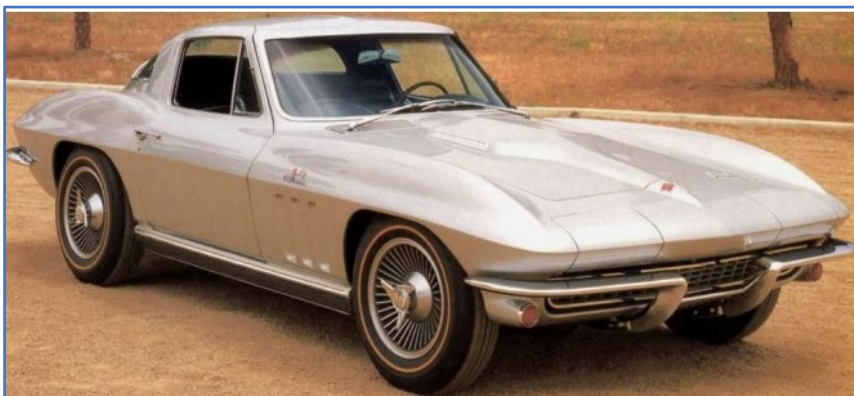




**5TH CATEGORY - HISTORIC RACING**  
**GROUP S**  
 APPROVED VEHICLE SPECIFICATION

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.

<b>Make of Car:</b>	Chevrolet	<b>Model:</b>	Corvette Stingray – 427ci
<b>Period of Original Manufacture:</b>	1966 - 1967		
<b>Motorsport Australia Historic Group:</b>	Sb		
<b>Date of Issue of this Document:</b>	31/12/2024		



***Update Log***

May 2020	GM Motorsport block Part #88962516 added
30/6/2022	Document layout
31/12/2024	Inclusion of kerb and minimum racing weights

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

<b>Description:</b>	Box section ladder frame
<b>Period of Manufacture:</b>	1966 – 1967
<b>Manufacturer:</b>	GM/Chevrolet
<b>Chassis Number From:</b>	Convertible 1946 77S100001, Coupe 1943 77S100001
<b>Chassis Number location:</b>	Plate under glove box
<b>Material:</b>	Steel
<b>Comments</b>	None

### 1.2. FRONT SUSPENSION

<b>Description:</b>	Independent with short & long arm wishbones		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Telescopic	<b>Adjustable:</b>	No
<b>Anti-sway bar:</b>	Fitted	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	Yes	<b>Method:</b>	Caster & camber by shims, toe by tie rods
<b>Comments:</b>	None		

### 1.3. REAR SUSPENSION

<b>Description:</b>	Independent with trailing arms		
<b>Spring Medium:</b>	Leaf		
<b>Damper Type:</b>	Telescopic	<b>Adjustable</b>	No
<b>Anti-sway bar:</b>	Fitted	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	Yes	<b>Method:</b>	Threaded links
<b>Comments:</b>	None		

### 1.4. STEERING

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

### 1.5. BRAKES

	Front	Rear
<b>Type:</b>	Disc	Disc
<b>Dimension:</b>	299 mm x 31.75 mm	299 mm x 31.75 mm
<b>Material of drum/disc:</b>	Cast iron	Cast iron
<b>No. cylinders/pots per wheel:</b>	Four	Four
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper make:</b>	Delco Moraine	Delco Moraine
<b>Caliper type:</b>	Fixed	Fixed
<b>Material:</b>	Cast iron	Cast iron
<b>Master cylinder make:</b>	Delco Moraine	
<b>Type:</b>	Tandem	
<b>Adjustable bias:</b>	No	
<b>Servo Fitted:</b>	Yes	
<b>Comments:</b>	Dual or tandem master cylinders permitted. Refer Group S regulations for permitted modifications	

## SECTION 2 - ENGINE

### 2.1. ENGINE

<b>Make:</b>	Chevrolet		
<b>Model – Big block:</b>	427 <sup>3"</sup>		
<b>No. cylinders:</b>	Eight	<b>Configuration:</b>	Vee
<b>Cylinder Block-material:</b>	Cast iron	<b>Two/Four Stroke:</b>	Four
<b>Bore - Original:</b>	107.95 mm	<b>Max allowed:</b>	109.45 mm
<b>Stroke - original:</b>	95.504 mm	<b>Max allowed:</b>	95.504 mm
<b>Capacity - original:</b>	6993 cc	<b>Max allowed:</b>	7189 cc
<b>Identifying marks:</b>	Casting numbers		
<b>Cooling method:</b>	Liquid		
<b>Comments:</b>	Aluminium blocks are not permitted for this group. Refer Group S regulations for permitted modifications		

### 2.2. CYLINDER HEAD

<b>Make:</b>	Chevrolet		
<b>No. of valves/cylinder:</b>	Two	<b>Inlet:</b> One	<b>Exhaust:</b> One
<b>No. of ports total:</b>	Eight	<b>Inlet:</b> Four	<b>Exhaust:</b> Four
<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>	Casting number		
<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, Coil and Distributor		
<b>Make:</b>	Delco Remy		
<b>Comments</b>	None		

### 2.5. FUEL SYSTEM

<b>Carburettor Make:</b>	GM Holley	<b>Model:</b>	Four barrel
<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

Make:	Delco
Type:	Diaphragm
Diameter:	264 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	None

#### 3.2. TRANSMISSION

Type:	Synchromesh
Make:	GM, Muncie
Model	M20 or M21
Gearbox location:	Behind engine
No. forward speeds:	Four
Gearchange type and location:	Floor -remote
Case material:	Cast iron or Aluminium alloy
Identifying marks:	N/A
Comments:	None

#### 3.3. FINAL DRIVE

Make:	GM	Model:	N/A
Type:	Sprung unit		
Ratios:	Various		
Differential type:	LSD, GM Posi traction		
Comments:	None		

#### 3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	Three
Description:	Open tail shaft, transmission to Sprung unit. Half shaft, sprung unit to wheels
Comments:	None

#### 3.5. WHEELS & TYRES

Wheel type - Original:	Disc or cast	Material - Original:	Steel or magnesium
Wheel type - Allowed:	Cast	Material - Allowed:	Aluminium Alloy
Fixture method:	Studs	No. studs:	Five
Wheel dia. & rim width	FRONT		REAR
Original:	6" x 15"		6" x 15"
Allowed	8" x 15"		8" x 15"
Tyre Section:			
Original:			
Allowed:	225/60 x 15"		225/60 x 15"
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list.		

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

<b>Tank Location:</b>	Under rear floor	<b>Capacity:</b>	75 litres
<b>Fuel pump, type:</b>	Mechanical, on engine	<b>Make:</b>	AC Delco
<b>Comments:</b>	None		

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	Twelve	<b>Alternator fitted:</b>	Alternator
<b>Battery Location:</b>	Behind seat		
<b>Comments:</b>	None		

### 4.3. BODYWORK

<b>Type:</b>	Sports. Coupe or Roadster	<b>Material:</b>	Fiberglass
<b>No. of seats:</b>	Two	<b>No. doors:</b>	Two
<b>Comments:</b>	None		

### 4.4. DIMENSIONS

<b>Track - Front:</b>	1463 mm	<b>Rear:</b>	1480 mm
<b>Wheelbase:</b>	2489 mm	<b>Overall length:</b>	4448 mm
<b>Approved Manufacturer's kerb weight:</b>	1510 kg		
<b>Approved minimum racing weight:</b>	1397 kg		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
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