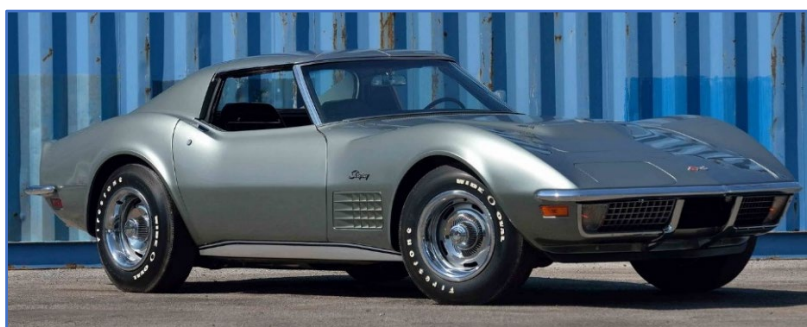




5TH CATEGORY - HISTORIC RACING
GROUP S
 APPROVED VEHICLE SPECIFICATION

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:	Chevrolet	Model:	Corvette – 454ci
Period of Original Manufacture:	1968		
Motorsport Australia Historic Group:	Sb		
Date of Issue of this Document:	31/12/2024		
IMPORTANT	This Specification Sheet relates only to the LS6 model. To be eligible, a candidate car must be an original factory built LS6 model		



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

Description:	Box section ladder frame		
Period of Manufacture:	1971		
Manufacturer:	GM/Chevrolet		
Chassis Number:	Convertible	194671S100001 – 194671S121801	
	Coupe	194371S100001 – 194371S121801	
Chassis Number location:	LH Windscreen pillar, inner vertical surface		
Comments	Only genuine LS6 vehicles with correct ID are permitted		

1.2. FRONT SUSPENSION

Description:	Independent by upper and lower wishbones		
Spring Medium:	Leaf		
Damper Type:	Telescopic	Adjustable:	Optional
Anti-sway bar:	Fitted	Adjustable:	No
Suspension adjustable:	Yes	Method:	Shims
Comments:	Spring rates and ride heights are free		

1.3. REAR SUSPENSION

Description:	Independent by transverse leaf and trailing arms		
Spring Medium:	Leaf		
Damper Type:	Telescopic	Adjustable	Optional
Anti-sway bar:	Fitted	Adjustable:	No
Suspension adjustable:	Yes	Method:	Shims
Comments:	None		

1.4. STEERING

Type:	Recirculating ball	Make:	Saginaw
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc, vented	Disc, vented
Dimensions:	299 mm x 31.75 mm	299 mm x 31.75 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	Four	Four
Actuation:	Hydraulic	Hydraulic
Caliper make:	GM Delco	GM Delco
Caliper type:	Fixed	Fixed
Material:	Cast iron	Cast iron
Master cylinder make:	GM Delco	
Type:	Tandem	
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:	Dual or tandem master cylinders permitted.	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Chevrolet		
Model – Small block:	LS6 – 454 ci		
No. cylinders:	Eight	Configuration:	Vee
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore - Original:	108 mm	Max allowed:	109.5 mm
Stroke - original:	101.6 mm	Max allowed:	101.6 mm
Capacity - original:	7446 cc	Max allowed:	7654 cc
Identifying marks:	Casting numbers		
Cooling method:	Liquid Aluminium radiators not permitted		
Comments:	Genuine LS6 engine carries block casting number 3963512 and engine number carries suffix "CPW" LS7 engine not permitted as this engine was sold as after-production fitment.		

2.2. CYLINDER HEAD

Make:	Chevrolet (Aluminium)		
No. of valves/cylinder:	Two	Inlet: One	Exhaust: One
No. of ports total:	Sixteen	Inlet: Eight	Exhaust: Eight
No. of camshafts:	One	Location: Block	Drive: Chain
Valve actuation:	Pushrod and rocker		
Spark plugs/cylinder:	One		
Identifying marks:	Aluminium cylinder head must carry casting number 3946074.		
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:	Fitted	Location:	N/A
Comments:	None		

2.4. IGNITION SYSTEM

Type:	Points, Coil and Distributor		
Make:	Delco K66		
Comments	No changes to ignition permitted. Electronic rev limiters permitted		

2.5. FUEL SYSTEM

Carburettor Make:	Holley	Model:	Four barrel 4150-R 4803
Carburettor Number:	One		
Size:	Various		
Fuel injection Make:	N/A	Type:	N/A
Supercharged:	No	Type:	N/A
Comments:	Carburettor bore is free		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Delco
Type:	Diaphragm
Diameter:	254 mm
No. of Plates:	One
Actuation:	Mechanical
Comments:	None

3.2. TRANSMISSION

Type:	Synchromesh
Make:	Muncie
Model	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:	Internal components are free. Muncie M22 'Rock crusher' gearbox not permitted.

3.3. FINAL DRIVE

Make:	GM	Model:	
Type:	Spin resistant		
Ratios:	3.36:1		
Differential type:	GM Posi traction		
Comments:	Internal components are free		

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	Material - Original:	Steel Alloy
Wheel type - Allowed:	Disc Cast	Material - Allowed:	Steel Period Alloy
Fixture method:	Studs and nuts	No. studs:	Five
Wheel dia. & rim width	FRONT		REAR
Original:	8" x 15"		8" x 15"
Allowed	8" x 15"		8" x 15"
Tyre Section:	Refer approved tyre list.		
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Fitment must meet tyre manufacturer's prescriptions		

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Under rear floor	Capacity:	75 litres
Fuel pump, type:	Mechanical, on engine	Make:	AC Delco
Comments:	Safety fuel tanks permitted – refer Group S regulations		

4.2. ELECTRICAL SYSTEM

Voltage:	Twelve	Alternator fitted:	Alternator
Battery Location:	Rear compartment		
Comments:	None		

4.3. BODYWORK

Type:	Convertible or Fixed Head Coupe	Material:	FRP
No. of seats:	Two	No. doors:	Two
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1490 mm	Rear:	1509 mm
Wheelbase:	2490 mm	Overall length:	4635 mm
Approved Manufacturer's kerb weight:	1533 kg		
Approved minimum racing weight:	1418 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
