



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 Logbook, 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:	Alfa Romeo	Model:	Montreal
Period of Original Manufacture:	1970 – 1977		
Motorsport Australia Historic Group:	Sc		
Date of Issue of this Document:	31/12/2024		



Update Log

30/6/2022	Document layout
31/12/2024	Inclusion of kerb and minimum racing weights

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Unitary construction		
Period of Manufacture:	1970 – 1977		
Manufacturer:	Alfa Romeo		
Chassis Number From:	AR1425101X		
Chassis Number location:	Firewall		
Material:	Steel		
Comments	None		

1.2. FRONT SUSPENSION

Description:	Independent by upper and lower wishbone		
Spring Medium:	Coil		
Damper Type:	Telescopic	Adjustable:	Optional
Anti-sway bar:	Yes	Adjustable:	Optional
Suspension adjustable:	Yes	Method:	Adjustable upper control arm
Comments:	Spring rates and ride heights may be adjusted		

1.3. REAR SUSPENSION

Description:	Live axle with upper and lower trailing arms		
Spring Medium:	Coil		
Damper Type:	Telescopic	Adjustable	Optional
Anti-sway bar:	Fitted	Adjustable:	Optional
Suspension adjustable:	Yes	Method:	Shims
Comments:	None		

1.4. STEERING

Type:	Recirculating ball	Make:	Alfa Romeo
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc	Disc
Dimensions:	272 mm x 22 mm	267 mm x 20 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	Two	Two
Actuation:	Hydraulic	Hydraulic
Caliper make:	ATE	
Caliper type:	Tandem	
Material:	Cast iron	
Master cylinder make:	ATE	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:	Dual or tandem master cylinders permitted	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Alfa Romeo		
Model:	105.65		
No. cylinders:	Eight	Configuration:	Vee
Cylinder Block-material:	Aluminium	Two/Four Stroke:	Four
Bore - Original:	80 mm	Max allowed:	81.5 mm
Stroke - original:	64.5 mm	Max allowed:	64.5 mm
Capacity - original:	2593 cc	Max allowed:	2690 cc
Identifying marks:	105.65		
Cooling method:	Liquid		
Comments:	None		

2.2. CYLINDER HEAD

Make:	Alfa Romeo		
No. of valves/cylinder:	Two	Inlet:	One
		Exhaust:	One
No. of ports total:	Sixteen	Inlet:	Eight
		Exhaust:	Eight
No. of camshafts:	Four	Location:	Heads
		Drive:	Chain
Valve actuation:	Buckets		
Spark plugs/cylinder:	One		
Identifying marks:			
Comments:	None		

2.3. LUBRICATION

Method:	Dry sump	Oil tank location:	Engine bay
Dry sump pump type:		Location:	Engine bay
Oil cooler standard:	Yes	Location:	Front
Comments:	None		

2.4. IGNITION SYSTEM

Type:	Electronic		
Make:	Capacitor discharge		
Comments:	None		

2.5. FUEL SYSTEM

Carburettor Make:		Model:	
Carburettor Number:			
Size:			
Fuel injection Make:	Spica	Type:	Mechanical
Supercharged:	No	Type:	N/A
Comments:	None		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Various
Type:	Dry plate
Diameter:	228 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	Clutch and method of acutation are free

3.2. TRANSMISSION

Type:	5 speed synchromesh
Make:	ZF
Gearbox location:	Behind engine
No. forward speeds:	Five
Gearchange type and location:	Floor romte
Case material:	Aluminium
Identifying marks:	
Comments:	Gear rtios are free

3.3. FINAL DRIVE

Make:	Alfa Romeo	Model:	105
Wheel drive method	Rear		
Ratios:	Various		
Differential type:	Spin resistant, hypoid		
Comments:	None		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Tubular shaft with Hardie Spicer type universal joints
Comments:	None

3.5. WHEELS & TYRES

Wheel type - Original:	Campagnolo Alfa Romeo	Material - Original:	Magnesium alloy
Wheel type - Allowed:	Period alloy	Material - Allowed:	Period alloy
Fixture method:	Suds and nuts	No. studs:	Four
Wheel dia. & rim width	FRONT		REAR
Original:	6.5" x 14"		6.5" x 14"
Allowed	7" x 15"		7" x 15"
Tyre Section:			
Original:	195/70 x 14"		195/70 x 14"
Allowed:	215/60 x 14"		215/60 x 14"
	225/60 x 14"		225/60 x 14"
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list.		

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Rear	Capacity:	63 litres
Fuel pump, type:	Electric x 2	Make:	Bosch
Comments:	Fuel pumps are free		

4.2. ELECTRICAL SYSTEM

Voltage:	Twelve	Alternator fitted:	Alternator
Battery Location:	Boot		
Comments:	None		

4.3. BODYWORK

Type:	Fixed head Coupe	Material:	Steel
No. of seats:	Two x two	No. doors:	Two
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1372 mm	Rear:	1340 mm
Wheelbase:	2350 mm	Overall length:	4220 mm
Approved Manufacturer's kerb weight:	1270 kg		
Approved minimum racing weight:	1162 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix