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:	Alfa Romeo	**Model:**	GTV2000 105 Series
Period of Original Manufacture:	October 1971 - 1976		
Motorsport Australia Historic Group:	Nc		
Date of Issue of this Document:	1 January 2024		

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

Update Log

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

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Unitary construction
Period of Manufacture:	October 1971 - 1976
Manufacturer:	Alfa Romeo
Chassis Number From:	AR2420001
Chassis Number location:	RHS Firewall
Material:	Steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent – upper and lower Wishbones			
Spring Medium:	Coil			
Damper Type:	Telescopic		**Adjustable:**	Yes
Anti-sway bar:	Fitted		**Adjustable:**	No
Suspension adjustable:	Yes	**Method:**	Upper control arm adjustment, Toe, caster, camber	
Comments:	Refer Appendix A			

1.3. REAR SUSPENSION

Description:	Live axle – two trailing arms – upper transverse and longitudinal link.			
Spring Medium:	Coil			
Damper Type:	Telescopic		**Adjustable:**	Yes
Anti-sway bar:	Fitted		**Adjustable:**	No
Suspension adjustable:	Yes	**Method:**	Trailing Arm Adjustment	
Comments:	Refer Appendix A			

1.4. STEERING

Type:	Recirculating ball	**Make:**	Alfa Romeo
Comments	None		

1.5. BRAKES

	Front	**Rear**
Type:	Disc - solid	Disc - solid
Dimensions:	272 mm x 12.6 mm	267 mm x 9.4 mm
Material of drum/disc:	Cast iron	Cast Iron
No. cylinders/pots per wheel:	Two	Two
Actuation:	Hydraulic	Hydraulic
Caliper make:	ATE	ATE
Caliper type:	Sliding	
Material:	Cast iron or alloy	
Master cylinder make:	ATE	
Type:	Tandem	
Adjustable bias:	Yes	
Servo Fitted:	Yes	
Comments:	None	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Alfa Romeo		
Model:	105 – 2000		
No. cylinders:	Four	**Configuration:**	In-line
Cylinder Block-material:	Alloy	**Two/Four Stroke:**	Four
Bore - Original:	84 mm	**Max allowed:**	85.55 mm
Stroke - original:	88.5 mm	**Max allowed:**	88.5 mm
Capacity - original:	1962 cc	**Max allowed:**	2031 mm
Identifying marks:	Located on the firewall 105.21 00512 2000		
Cooling method:	Liquid		
Comments:	None		

2.2. CYLINDER HEAD

Make:	Alfa Romeo				
No. of valves/cylinder:	Four	**Inlet:**	Two	**Exhaust:**	Two
No. of ports total:	Eight	**Inlet:**	Four	**Exhaust:**	Four
No. of camshafts:	Two	**Location:**	Head	**Drive:**	Chain
Valve actuation:	Buckets				
Spark plugs/cylinder:	One				
Identifying marks:	Cast on front of head Symbol - Square within a circle, diagonal line bottom left to top right within the square symbol				
Comments:	Original 45^{o} twin plug head must be used. Later "Twin Spark" versions not permitted.				

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, coil & distributor
Make:	Marelli or Bosch
Comments	Breakerless electronic ignition permitted

2.5. FUEL SYSTEM

Carburettor Make:	Weber Solex	**Model:**	DCOE45 C40DDH7
Carburettor Number:	Two		
Size:	45 mm		
Fuel injection Make:	N/A	**Type:**	N/A
Supercharged:	No	**Type:**	N/A
Comments:	None		

3.1. CLUTCH

Make:	Various
Type:	Diaphragm
Diameter:	216 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	None

3.2. TRANSMISSION

Type:	5-speed synchromesh
Make:	Alfa Romeo
Gearbox location:	Behind engine
No. forward speeds:	Five
Gearchange type and location:	H pattern floor mounted
Case material:	Alloy
Identifying marks:	N/A
Comments:	None

3.3. FINAL DRIVE

Make:	Alfa Romeo	**Model:**	105
Ratios:	Various		
Differential type:	LSD	**Type:**	Hypoid
Comments:	None		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Open tailshaft with twin uni joints
Comments:	Steel

3.5. WHEELS & TYRES

Wheel type - Original:	Alloy	**Material - Original:**	Alloy
Wheel type - Allowed:	Alloy (period style)	**Material - Allowed:**	Alloy (period style)
Fixture method:	Bolt on	**No. studs:**	Four
Wheel dia. & rim width	**FRONT**		**REAR**
Original:	5.5” x 14”		5.5” x 14”
Allowed	7” x 14” 7” x 15”		7” x 14” 7” x 15”
Tyre Section:			
Allowed:	Refer approved tyre list.		
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	None		

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SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Rear	**Capacity:**	46 litres
Fuel pump, type:	Electric – twin fuel pumps	**Make:**	Bendix
Comments:	None		

4.2. ELECTRICAL SYSTEM

Voltage:	12	**Alternator fitted:**	Alternator
Battery Location:	Boot		
Comments:	None		

4.3. BODYWORK

Type:	Coupe	**Material:**	Steel
No. of seats:	Four	**No. doors:**	Two
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1324 mm (standard)	**Rear:**	1274 mm (standard)
Wheelbase:	2350 mm	**Overall length:**	4100 mm
Approved Manufacturer's kerb weight:	920 kg		
Approved minimum racing weight:	897 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix A

Suspension

Front

Spring height adjustment permitted.

Rear

Spring height adjustment permitted.