



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>	Alfa Romeo	<b>Model:</b>	GTV2000 105 Series
<b>Period of Original Manufacture:</b>	October 1971 - 1976		
<b>Motorsport Australia Historic Group:</b>	Nc		
<b>Date of Issue of this Document:</b>	21 September 2021		



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

***Update Log***


## SECTION 1 - CHASSIS

### 1.1. CHASSIS

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

### 1.2. FRONT SUSPENSION

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

### 1.3. REAR SUSPENSION

<b>Description:</b>	Live Axle -Two Lower Trailing Arms – Transverse Link		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Telescopic	<b>Adjustable:</b>	Yes
<b>Anti-sway bar:</b>	Fitted	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	Yes	<b>Method:</b>	Trailing Arm Adjustment
<b>Comments:</b>	Refer Appendix A		

### 1.4. STEERING

<b>Type:</b>	Recirculating ball	<b>Make:</b>	Alfa Romeo
<b>Comments</b>	None		

### 1.5. BRAKES

	Front	Rear
<b>Type:</b>	Disc, vented	Disc, solid
<b>Dimensions:</b>	272 mm x 12.7 mm	267 mm x 9.5 mm
<b>Material of drum/disc:</b>	Cast iron	Cast Iron
<b>No. cylinders/pots per wheel:</b>	Two	Two
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper make:</b>	ATE	ATE
<b>Caliper type:</b>	Sliding	
<b>Material:</b>	Cast iron or alloy	
<b>Master cylinder make:</b>	ATE	
<b>Type:</b>	Tandem	
<b>Adjustable bias:</b>	Yes	
<b>Servo Fitted:</b>	Yes	
<b>Comments:</b>	None	

## SECTION 2 - ENGINE

### 2.1. ENGINE

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

### 2.2. CYLINDER HEAD

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

### 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 & distributor
<b>Make:</b>	Marelli or Bosch
<b>Comments:</b>	Breakerless electronic ignition permitted

### 2.5. FUEL SYSTEM

<b>Carburettor Make:</b>	Weber Solex	<b>Model:</b>	DCOE45 C40DDH7
<b>Carburettor Number:</b>	Two		
<b>Size:</b>	45 mm		
<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>	Various
<b>Type:</b>	Diaphragm
<b>Diameter:</b>	216 mm
<b>No. of Plates:</b>	One
<b>Actuation:</b>	Hydraulic
<b>Comments:</b>	None

**3.2. TRANSMISSION**

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

**3.3. FINAL DRIVE**

<b>Make:</b>	Alfa Romeo	<b>Model:</b>	105
<b>Ratios:</b>	Various		
<b>Differential type:</b>	LSD	<b>Type:</b>	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 tailshaft with twin uni joints
<b>Comments:</b>	Steel

**3.5. WHEELS & TYRES**

<b>Wheel type - Original:</b>	Alloy	<b>Material - Original:</b>	Alloy
<b>Wheel type - Allowed:</b>	Alloy (period style)	<b>Material - Allowed:</b>	Alloy (period style)
<b>Fixture method:</b>	Bolt on	<b>No. studs:</b>	Four
<b>Wheel dia. &amp; rim width</b>	<b>FRONT</b>		<b>REAR</b>
<b>Original:</b>	5.5" x 14"		5.5" x 14"
<b>Allowed</b>	7" x 14" 7" x 15"		7" x 14" 7" x 15"
<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>	Rear	<b>Capacity:</b>	46 litres
<b>Fuel pump, type:</b>	Electric – twin fuel pumps	<b>Make:</b>	Bendix
<b>Comments:</b>	None		

### 4.2. ELECTRICAL SYSTEM

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

### 4.3. BODYWORK

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

### 4.4. DIMENSIONS

<b>Track - Front:</b>	1324 mm (standard)	<b>Rear:</b>	1274 mm (standard)
<b>Wheelbase:</b>	2350 mm	<b>Overall length:</b>	4100 mm
<b>Dry weight:</b>	920 kg		
<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.