



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>	Alfa Romeo	<b>Model:</b>	GTV 1750 105 Series
<b>Period of Original Manufacture:</b>	1968 - 1972		
<b>Motorsport Australia Historic Group:</b>	Sb		
<b>Date of Issue of this Document:</b>	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

<b>Description:</b>	Unitary construction
<b>Period of Manufacture:</b>	1968 - 1972
<b>Manufacturer:</b>	Alfa Romeo
<b>Chassis Number From:</b>	AR135001
<b>Chassis Number location:</b>	Top of firewall
<b>Material:</b>	Mild Steel
<b>Comments</b>	None

### 1.2. FRONT SUSPENSION

<b>Description:</b>	Independent front suspension. Twin wishbones		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Telescopic	<b>Adjustable:</b>	Optional
<b>Anti-sway bar:</b>	No	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	Yes	<b>Method:</b>	Upper control arm adjustment
<b>Comments:</b>	Spring rates and ride heights may be adjusted		

### 1.3. REAR SUSPENSION

<b>Description:</b>	Live axle, upper and lower trailing arms		
<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>	No	<b>Method:</b>	N/A
<b>Comments:</b>	Spring rates and ride heights are free		

### 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	Disc
<b>Dimensions:</b>	272 mm x 13 mm	267 mm x 10 mm
<b>Material of drum/disc:</b>	Cast iron	Cast iron
<b>No. cylinders/pots per wheel:</b>	One	One
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper make:</b>	ATE	
<b>Caliper type:</b>	Tandem	
<b>Material:</b>	Cast iron	
<b>Master cylinder make:</b>	ATE	
<b>Type:</b>	Single	
<b>Adjustable bias:</b>	No	
<b>Servo Fitted:</b>	Yes	
<b>Comments:</b>	Dual or tandem master cylinders permitted. Servo may be rendered inoperative	

## SECTION 2 - ENGINE

### 2.1. ENGINE

<b>Make:</b>	Alfa Romeo		
<b>Model:</b>	105 – 1750		
<b>No. cylinders:</b>	Four	<b>Configuration:</b>	In line
<b>Cylinder Block-material:</b>	Aluminium	<b>Two/Four Stroke:</b>	Four
<b>Bore - Original:</b>	80 mm	<b>Max allowed:</b>	81.5 mm
<b>Stroke - original:</b>	88.5 mm	<b>Max allowed:</b>	88.5 mm
<b>Capacity - original:</b>	1779 cc	<b>Max allowed:</b>	1848 cc
<b>Identifying marks:</b>			
<b>Cooling method:</b>	Liquid		
<b>Comments:</b>	None		

### 2.2. CYLINDER HEAD

<b>Make:</b>	Alfa Romeo		
<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>	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 on front of head: Varies		
<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>	Oil cooler permitted		

### 2.4. IGNITION SYSTEM

<b>Type:</b>	Points, Coil and Distributor		
<b>Make:</b>	Bosch, Marelli		
<b>Comments:</b>	Breakerless electronic ignition permitted		

### 2.5. FUEL SYSTEM

<b>Carburettor Make:</b>	Weber	<b>Model:</b>	40 DCOE 32
<b>Carburettor Number:</b>	Two		
<b>Size:</b>	40		
<b>Fuel injection Make:</b>	N/A	<b>Type:</b>	N/A
<b>Supercharged:</b>	No	<b>Type:</b>	N/A
<b>Comments:</b>	Carburettor throat size may be varied		

**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>	Clutch and method of actuation are free

**3.2. TRANSMISSION**

<b>Type:</b>	5 speed synchromesh
<b>Make:</b>	Alfa Romeo
<b>Model</b>	105
<b>Gearbox location:</b>	Behind engine
<b>No. forward speeds:</b>	Five
<b>Gearchange type and location:</b>	Floor remote
<b>Case material:</b>	Aluminium
<b>Identifying marks:</b>	N/A
<b>Comments:</b>	None

**3.3. FINAL DRIVE**

<b>Make:</b>	Alfa Romeo	<b>Model:</b>	105
<b>Wheel drive method</b>	Rear		
<b>Ratios:</b>	Various		
<b>Differential type:</b>	Hypoid bevel		
<b>Comments:</b>	Limited slip differential permitted		

**3.4. TRANSMISSION SHAFTS (EXPOSED)**

<b>Number:</b>	One
<b>Location:</b>	Tailshaft
<b>Description:</b>	Tubular
<b>Comments:</b>	None

**3.5. WHEELS & TYRES**

<b>Wheel type - Original:</b>	Steel disc	<b>Material - Original:</b>	Mild steel
<b>Wheel type - Allowed:</b>	Period alloy or Alloy	<b>Material - Allowed:</b>	Period alloy or steel
<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>	6" x 14" 6" x 15"		6" x 14" 6" x 15"
<b>Tyre Section:</b>			
<b>Original:</b>	165/70 x 14"		165/70 x 14"
<b>Allowed:</b>	195/60 x 14" 195/60 x 15"		195/60 x 14" 195/60 x 15"
<b>Aspect ratio - minimum:</b>	60% minimum aspect ratio.		
<b>Comments:</b>	Refer approved tyre list.		

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## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

<b>Tank Location:</b>	Rear	<b>Capacity:</b>	46 litres
<b>Fuel pump, type:</b>	Electric	<b>Make:</b>	
<b>Comments:</b>	None		

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	Twelve	<b>Alternator fitted:</b>	Alternator
<b>Battery Location:</b>	Engine bay		
<b>Comments:</b>	None		

### 4.3. BODYWORK

<b>Type:</b>	Two door Fixed head 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	<b>Rear:</b>	1274 mm
<b>Wheelbase:</b>	2350 mm	<b>Overall length:</b>	4100 mm
<b>Approved Manufacturer's kerb weight:</b>	1040 kg		
<b>Approved minimum racing weight:</b>	944 kg		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
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**Appendix**