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:**	GTAm Tipo 105.51
Period of Original Manufacture:	1970 – 1971		
Motorsport Australia Historic Group:	Nc		
Date of Issue of this Document:	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

Description:	Unitary construction
Period of Manufacture:	1970-1971
Manufacturer:	Alfa Romeo
Chassis Number From:	
Chassis Number location:	RHS Firewall
Material:	Steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent - lower Wishbone & Upper Control Arms			
Spring Medium:	Coil			
Damper Type:	Telescopic		**Adjustable:**	Yes
Anti-sway bar:	Fitted		**Adjustable:**	No
Suspension adjustable:	Yes	**Method:**	Upper control arm adjustment	
Comments:	None			

1.3. REAR SUSPENSION

Description:	Live Axle -Two Lower Trailing Arms and one Upper Trailing Arm			
Spring Medium:	Coil			
Damper Type:	Telescopic		**Adjustable:**	Yes
Anti-sway bar:	Fitted		**Adjustable:**	No
Suspension adjustable:	Yes	**Method:**	Upper Trailing Arm Adjustment	
Comments:	None			

1.4. STEERING

Type:	Worm and Sector	**Make:**	Alfa Romeo
Comments	None		

1.5. BRAKES

	Front	**Rear**
Type:	Disc, vented	Disc, solid
Dimensions:	272 mm x 12.7 mm	267 mm x 9.5 mm
Material of drum/disc:	Cast iron	Cast Iron
No. cylinders/pots per wheel:	Two or Four	Two
Actuation:	Hydraulic	Hydraulic
Caliper make:	ATE or AP alloy	ATE or AP alloy
Caliper type:	Tandem	
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:	GTAM		
No. cylinders:	Four	**Configuration:**	In-line
Cylinder Block-material:	Alloy	**Two/Four Stroke:**	Four
Bore - Original:	80 mm	**Max allowed:**	81.55 mm
Stroke - original:	88.5 mm	**Max allowed:**	88.5 mm
Capacity - original:	1972 cc	**Max allowed:**	2031 mm
Identifying marks:	Located on the firewall AR00502/A XXXX		
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:	Two				
Identifying marks:	Cast on front of head 45º valve angle symbol (oc)				
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:	Yes	**Location:**	Beside radiator
Comments:	None		

2.4. IGNITION SYSTEM

Type:	Twin point distributor with twin coils
Make:	Marelli or Bosch
Comments	Breakerless electronic ignition permitted

2.5. FUEL SYSTEM

Carburettor Make:	Weber	**Model:**	DCOE
Carburettor Number:	Two		
Size:	45 mm		
Fuel injection Make:	Lucas or Spica	**Type:**	Mechanical
Supercharged:	No	**Type:**	N/A
Comments:	Both Lucas and Spica mechanical fuel injection systems were homologated and are permitted. Regulations allow injection to be replaced by carburettors, which are free, provided no increase in their number and must be of period type.		

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:**	Hypoid
Ratios:	Various		
Differential type:	ZF Autolock	**Type:**	spin resistant
Comments:	None		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Tubular shaft with 2 Cardan type joints
Comments:	None

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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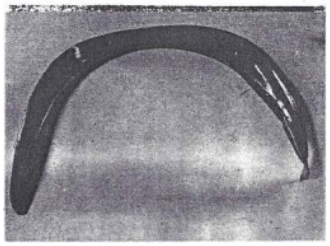
4.1. FUEL SYSTEM

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:	Closed	**Material:**	Steel/GRP/Aluminium
No. of seats:	Two	**No. doors:**	Two
Comments:	Doors: Steel frame, GRP or Aluminium skins Body: Steel Bonnet/Boot: Aluminium or GRP Windows, side and rear Glass or Plexiglass Flares: Homologated flares only permitted  		

4.4. DIMENSIONS

Track - Front:	1390 mm (max)	**Rear:**	1370 mm (max)
Wheelbase:	2350 mm	**Overall length:**	
Dry weight:	920 kg (homologated weight)		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix

Doors:	Steel frame, GRP or Aluminium Skins.
Body:	Steel.
Bonnet/Boot:	Aluminium or GRP.
Windows:	Side and Rear Glass or Plexiglass.
Wheel arch:	Homologated flares only permitted.