



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:	1 January 2024		



Refer to The *Manual*, Historic Appendix, Vehicle Eligibility, General Requirements & Historic Touring Cars Group N 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:	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 45° valve angle symbol (oc)		
Comments:	Original 45° 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.		

SECTION 3 - TRANSMISSION

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		

SECTION 4 GENERAL

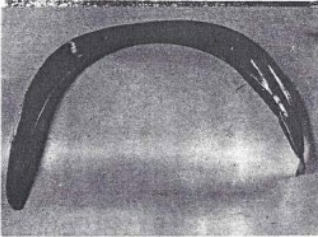

4.1. FUEL SYSTEM

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:	Closed	Material:	Steel/GRP/Aluminium
No. of seats:	Two	No. doors:	Two
Comments:	<p>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</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>		

4.4. DIMENSIONS

Track - Front:	1390 mm (max)	Rear:	1370 mm (max)
Wheelbase:	2350 mm	Overall length:	
Agreed Manufacturer's kerb weight:	960 kgs		
Agreed minimum racing weight:	936 kgs		
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.