

CAMS

5TH CATEGORY - HISTORIC RACING

GROUP NC

APPROVED VEHICLE SPECIFICATION

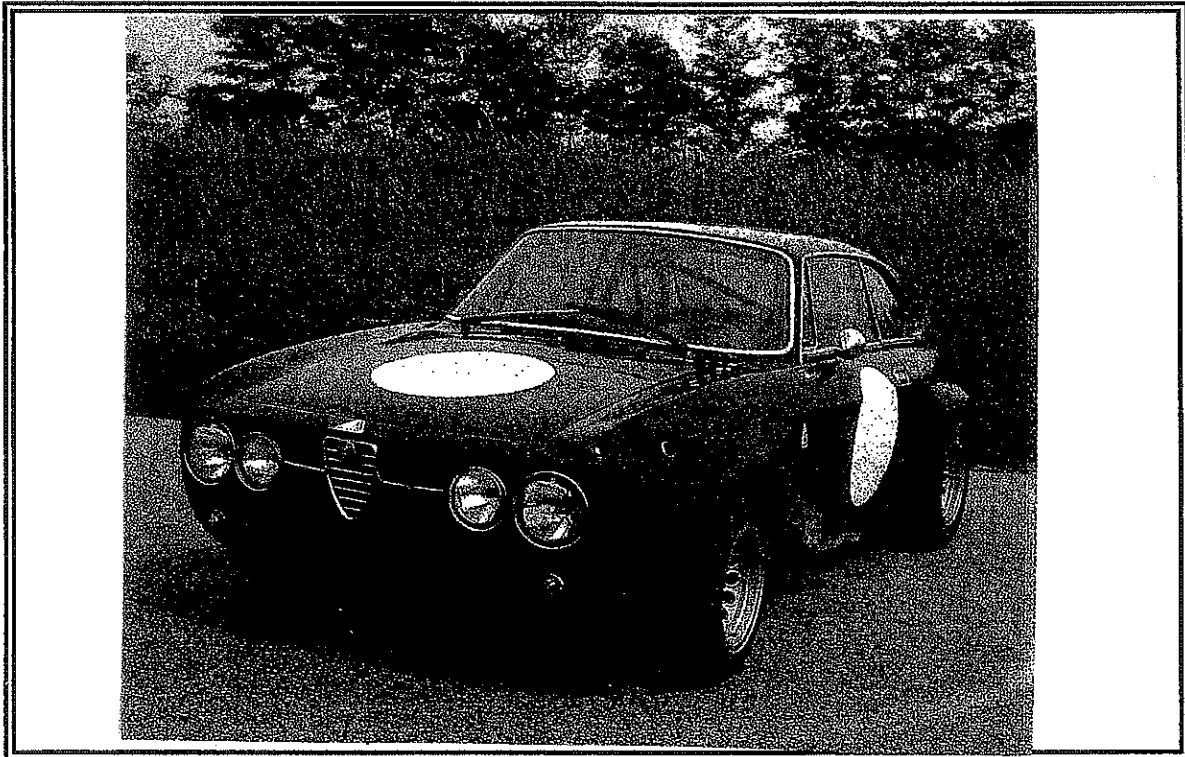
This form details the approved specifications of individual vehicle models in the 5th Category Historic car group. To be issued with an Historic Log Book, cars need to comply with these specifications, the physical appearance shown in the illustrations and the general historic rules as detailed in the current CAMS Manual of Motor Sport.

Make of Car: Alfa Romeo Model: GTAM TIPO 105.51

Period of Original Manufacture: 1970 - 1971

CAMS Historic Group: Nc

Date of Issue of this Document: 28th March 2002



SECTION 1 - CHASSIS

1.1 CHASSIS FRAME

Description: Unitary Construction **Period of Manufacture:** 1970 - 71
Manufacturer: Alfa Romeo
Chassis no. from:
Chassis no. location: RHS Firewall
Material: Steel
Comments:

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:

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:

1.4 STEERING

Type: Worm & Sector **Make:** Alfa Romeo
Comments:

1.5 BRAKES

	Front	Rear
Type:	Disc	Disc
Dimensions:	272mm (vent)	267mm (solid)
Material of drum/disc	cast iron	cast iron
No. cylinders/pots per wheel:	2 or 4	2
Actuation:	Hydraulic	Hydraulic
Caliper: Make, Material, Type:	ATE or AP -alloy	ATE - cast iron
Master cylinder make:	ATE	Type: Tandem
Adjustable bias	Yes	
Servo Fitted	Yes	
Comments:	Dual Master Cylinders permitted	

SECTION 2 - ENGINE

2.1 ENGINE

Make:	Alfa Romeo	Configuration:	In line
Model:	GTAM	Four Stroke	
No. cylinders:	4	Max. allowed:	85.5mm
Cylinder Block-material:	Alloy	Max. allowed:	88.5mm
Bore - Original:	84. mm	Max. allowed:	2031cc
Stroke - original:	88.5mm		
Capacity - original:	1972cc		
Cooling method:	Water		
Identifying marks:			
COMMENTS:			

2.2 CYLINDER HEAD

Make:	Alfa Romeo	Exhaust:	
No. of valves/cylinder-	Inlet:	Exhaust:	4
No. of ports total:	8 Inlet: 4	Drive:	Chain
No. of camshafts:	2 Location: Head		
Valve actuation:	Buckets		
Spark plugs/cylinder:	Two		
Identifying marks:	45° Valve Angle/Symbol (oc) Cast on Front of Head		
COMMENTS:	Original 45degree 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:			

2.4 IGNITION SYSTEM

Type:	Twin Coils & Twin Point Distributor
Make:	Marelli or Bosch
COMMENTS:	

2.5 FUEL SYSTEM

Carburettor: Make:	Weber	Model :	DCOE	Size:	45mm
		No :	2		
Fuel injection Make:	Lucas or Spica	Type:	Mechanical		
Supercharged:	N/A	Type:			
COMMENTS:	Both Lucas & 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 of period type.				

SECTION 3 - TRANSMISSION

3.1 CLUTCH

Make: Type: Diaphragm Diameter: 216mm
No. of Plates: 1
Actuation: Hydraulic
Comments:

3.2 TRANSMISSION

Type: 5 Speed Synchronesh
Make: Alfa Romeo **Model:**
No. forward speeds: 5 **Gearbox location:** Behind engine
Gearchange type and location: Floor Mounted - Direct
Case material: Alloy
Comments:

3.3 FINAL DRIVE

Make: Alfa Romeo **Model:** Hypoid
Wheel drive method: Rear
Ratios: Various
Differential: Spin Resistant **Type:** ZF 'Autolock'
Comments:

3.4 TRANSMISSION SHAFTS (EXPOSED)

Number: 1 **Location:** Gearbox to Final Drive
Description: Tubular Tailshaft with Universal Joints
Comments:

3.5 WHEELS & TYRES

Wheel type: Original:	Alloy	Material: Original:	Alloy
Allowed:	Alloy (Period Style)	Allowed:	Alloy (Period Style)
Fixture method:	Bolt on	No. studs:	4
Wheel dia. & rim width	FRONT	REAR	
	5.5 x 14	5.5 x 14	
Original:			
Allowed	7 x 14 or 15	7 x 14 or 15	
Tyre section:			
Original:			
Allowed:	205 x 14 or 15	205 x 14 or 15	
Aspect ratio - minimum:	60%	60%	
Comments:			

SECTION 4 - GENERAL

4.1 FUEL SYSTEM

Tank Location: Rear **Capacity:** 46 litres
Fuel pump, type and location: Electric **Make:** Bendix
Comments: Twin Fuel Pumps

4.2 ELECTRICAL SYSTEM

Voltage: 12 **Generator/alternator fitted:**
Battery Location: Boot
Comments:

4.3 BODYWORK

Type: 4 Place Fixed Head **Material:** Steel /GRP/Aluminium
Coupe
No. of seats: 2 **No. doors:** 2
Comments: Doors: Steel Frame , GRP or Aluminium Skins
Body: Steel
Bonnet/Boot : Aluminium or GRP.
Homologated flares only permitted. (See Attachment 'A')
Side and rear windows: Glass or Plexiglass

4.4 DIMENSIONS

Track - Front: 1390mm (Max.) **Rear:** 1370mm (Max.)
Wheelbase: 2350mm **Overall length:** 4080mm
Dry weight: 920 kg (homologated weight)

Comments:

4.5 SAFETY EQUIPMENT

Fire extinguisher required
Seat belt required
Rollbar required
Electrical cut off switch required
Safety fuel tank optional

RP:mr-Alfa Romeo GRAM