

# CAMS

5TH CATEGORY - HISTORIC RACING

GROUP NC

APPROVED VEHICLE SPECIFICATION

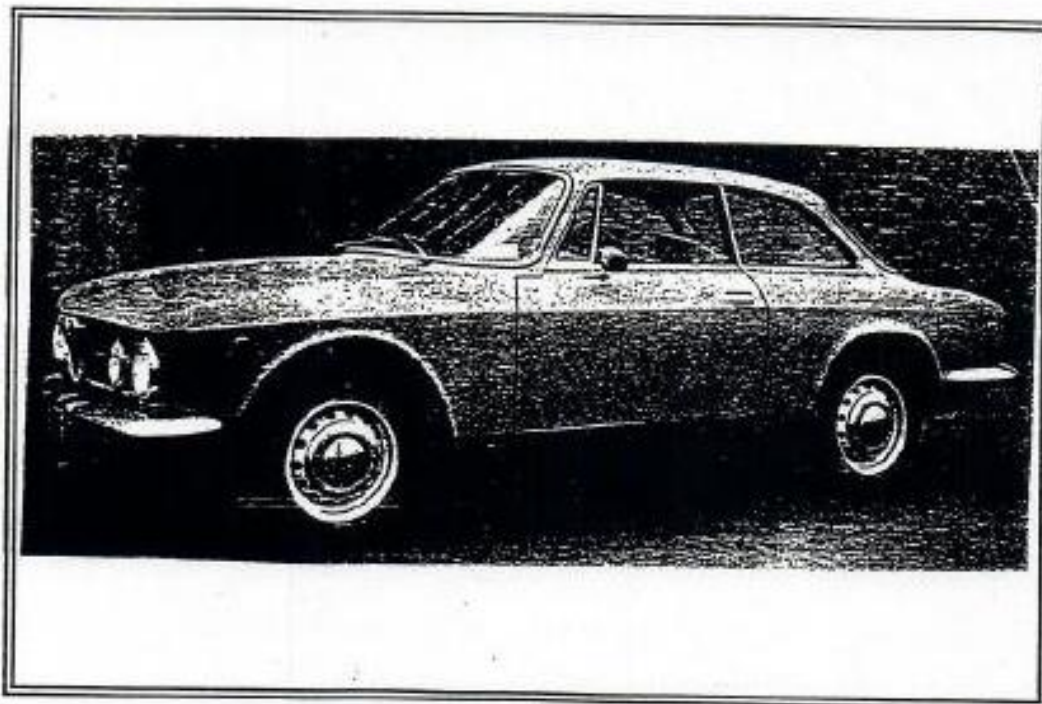
This form details the approved specifications of individual vehicle models in the 5th Category Historic car group. To be issued with an Historic Log Book, cars need to comply with these specifications, the physical appearance shown in the illustrations and the general historic rules as detailed in the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

Make of Car: Alfa Romeo Model: GTAM TIPO 105.51

Period of Original Manufacture: 1969 - 1972

CAMS Historic Group: Nc

Date of Issue of this Document: 29<sup>TH</sup> September 2000



## SECTION 1 - CHASSIS

### 1.1 CHASSIS FRAME

**Description:** Unitary Construction  
**Manufacturer:** Alfa Romeo  
**Period of Manufacture:** 7/69-1972  
**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

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

## SECTION 2 - ENGINE

### 2.1 ENGINE

<b>Make:</b>	Alfa Romeo		
<b>Model:</b>	GTAM		
<b>No. cylinders:</b>	4	<b>Configuration:</b>	In line
<b>Cylinder Block-material:</b>	Alloy	<b>Four Stroke</b>	
<b>Bore - Original:</b>	80	<b>Max. allowed:</b>	81.5
<b>Stroke - original:</b>	88.5	<b>Max. allowed:</b>	88.5
<b>Capacity - original:</b>	1779 cc	<b>Max. allowed:</b>	1845 cc
<b>Cooling method:</b>	Water		
<b>Identifying marks:</b>			

**COMMENTS:** Whilst 2 Litre Engine was recognised under Group 2 Homologation Extensions, only standard Group 2 engine is permitted in Group Nc.

### 2.2 CYLINDER HEAD

<b>Make:</b>	Alfa Romeo		
<b>No. of valves/cylinder-</b>	Inlet:		<b>Exhaust:</b>
<b>No. of ports total:</b>	8 Inlet: 4		<b>Exhaust:</b> 4
<b>No. of camshafts:</b>	2 Location: Head		<b>Drive:</b> Chain
<b>Valve actuation:</b>	Buckets		
<b>Spark plugs/cylinder:</b>	Two		

**Identifying marks:** 45° Valve Angle/Symbol (cc) Cast on Front of Head

**COMMENTS:** Original 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>	Yes	<b>Location:</b>	Beside Radiator

**COMMENTS:**

### 2.4 IGNITION SYSTEM

<b>Type:</b>	Twin Coils & Twin Point Distributor
<b>Make:</b>	Marelli or Bosch

**COMMENTS:**

### 2.5 FUEL SYSTEM

<b>Carburettor: Make:</b>	Weber	<b>Model :</b>	DCOE	<b>Size:</b>	45mm
		<b>No :</b>	2		
<b>Fuel injection Make:</b>	Lucas or Spica	<b>Type:</b>	Mechanical		
<b>Supercharged:</b>	N/A	<b>Type:</b>			

**COMMENTS:**

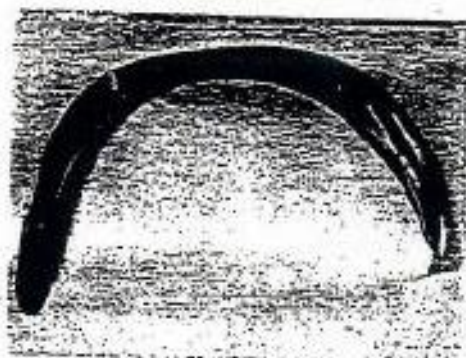
Both Lucas & Spica mechanical fuel injection systems were homologated, and are permitted.

Regulations allow injection to be replaced by carburetors, which are free, provided no increase in their number and of period type.





- sur demande, sans thermostat
- a richiesta senza thermostat
- 5- Parafanghi anteriori: a richiesta aggiunta di codolini n° di catalogo 105.59.54.109/110.00  
Con l'applicazione dei codolini la larghezza nella sezione trasversale anteriore risulta di 1640 mm. (V. foto)
- Ailes Antérieures: sur demande on peut ajouter des lèvres n° de catalogue 105.59.54.109/110.00.  
Avec l'application des lèvres la largeur dans la section transversale antérieure est de 1640 mm.  
(Voir photo)
- Codolini ai parafanghi posteriori particolare 105.32.54.004/005.00. La larghezza della vettura nella sezione trasversale sull'asse delle ruote posteriori risulta di 1560 mm. (V. foto)
- Ailes Postérieures: sur demande on peut ajouter des lèvres n° de catalogue 105.32.54.004/005.00.  
Avec l'application de lèvres la largeur dans la section transversale sur l'essieu des roues postérieure est 1560 mm. (Voir photo)



Ant.



Post.



50 - 51 - 53 - 54 - 3

RUOTE - 7"Kx14 - Fornitore Campagnolo - materiale magnesio - peso kg. 5,7 : lbs. 12,57 -  
Carreggiata anteriore 1350 mm. Post. 1300 mm.

ROUES - 7"Kx14 - Fournisseur Campagnolo - en electron - Poids kg. 5,7 : lbs. 12,57 - Voie  
AV.: 1350 mm. Voie AR. 1300 mm.

Timbro e firma della C.S.A.I.