



5TH CATEGORY - HISTORIC RACING GROUP N APPROVED VEHICLE SPECIFICATION
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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:	GTV 1750 105S
Period of Original Manufacture:	1967 - 1972		
Motorsport Australia Historic Group:	Nc		
Date of Issue of this Document:	1 January 2024		



Update Log

30/6/2022	Document layout
1/1/2024	Inclusion of kerb and minimum racing weights

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Unitary chassis body
Period of Manufacture:	1967 - 1972
Manufacturer:	Alfa Romeo
Chassis Number From:	105.44.135001 to 105.44.1376232
Chassis Number location:	Top of firewall
Material:	Mild Steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent front suspension. Twin wishbones		
Spring Medium:	Coil		
Damper Type:	Tubular	Adjustable:	No
Anti-sway bar:	Yes	Adjustable:	No
Suspension adjustable:	No	Method:	N/A
Comments:	Spring rates and ride heights may be adjusted		

1.3. REAR SUSPENSION

Description:	Live axle – two trailing arms – upper transverse and longitudinal link.		
Spring Medium:	Coil		
Damper Type:	Tubular	Adjustable	No
Anti-sway bar:	Fitted	Adjustable:	No
Suspension adjustable:	No	Method:	N/A
Comments:	Spring rates and ride heights are free		

1.4. STEERING

Type:	Recirculating ball	Make:	Alfa Romeo
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc - solid	Disc - solid
Dimensions:	272 mm x 12.6 mm	267 mm x 9.4 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	One	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	ATE	
Caliper type:	Tandem	
Material:	Cast iron	
Master cylinder make:	ATE	
Type:	Tandem	
Adjustable bias:	No	
Servo Fitted:	Yes (some models have twin servos)	
Comments:	Dual or tandem master cylinders permitted. Servo may be rendered inoperative	

SECTION 2 - ENGINE

2.1. ENGINE

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

2.2. CYLINDER HEAD

Make:	Alfa Romeo		
No. of valves/cylinder:	Two	Inlet: One	Exhaust: One
No. of ports total:	Eight	Inlet: Four	Exhaust: Four
No. of camshafts:	Two	Location: Head	Drive: Chain
Valve actuation:	Direct		
Spark plugs/cylinder:	One		
Identifying marks:	Cast on front of head Symbol on front of head: Varies		
Comments:	None		

2.3. LUBRICATION

Method:	Wet sump	Oil tank location:	N/A
Dry sump pump type:	N/A	Location:	N/A
Oil cooler standard:	No	Location:	N/A
Comments:	Oil cooler permitted		

2.4. IGNITION SYSTEM

Type:	Points, Coil and Distributor		
Make:	Bosch, Lucas, Marelli		
Comments	Breakerless electronic ignition permitted		

2.5. FUEL SYSTEM

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

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Fichtel and Sachs
Type:	Diaphragm
Diameter:	Not specified
No. of Plates:	One
Actuation:	Hydraulic
Comments:	Clutch and method of actuation are free

3.2. TRANSMISSION

Type:	Manual
Make:	Alfa Romeo
Model	105
Gearbox location:	Behind engine
No. forward speeds:	Five
Gearchange type and location:	Central remote shift
Case material:	Aluminium
Identifying marks:	N/A
Comments:	None

3.3. FINAL DRIVE

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

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Tailshaft
Description:	Tubular
Comments:	None

3.5. WHEELS & TYRES

Wheel type - Original:	Steel disc	Material - Original:	Mild steel
Wheel type - Allowed:	Period alloy or Alloy	Material - Allowed:	Period alloy or steel
Fixture method:	Bolt on	No. studs:	Four
Wheel dia. & rim width	FRONT		REAR
Original:	5.5" x 14"		5.5" x 14"
Allowed	6" x 14" 6" x 15"		6" x 14" 6" x 15"
Tyre Section:			
Original:	165/70 x 14"		165/70 x 14"
Allowed:	185/60 x 14" 205/60 x 15"		185/60 x 14" 205/60 x 15"
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list. Alloy wheels must be Minilite, Cromodora or Campagnola type.		

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SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Under boot	Capacity:	40 litres
Fuel pump, type:	Mechanical, on engine	Make:	Fispa
Comments:	Electric fuel pumps permitted		

4.2. ELECTRICAL SYSTEM

Voltage:	Twelve	Alternator fitted:	Alternator
Battery Location:	Engine bay		
Comments:	None		

4.3. BODYWORK

Type:	Fixed head coupe	Material:	Steel
No. of seats:	Four	No. doors:	Two
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1327 mm	Rear:	1276 mm
Wheelbase:	2356 mm	Overall length:	4076 mm
Approved Manufacturer's kerb weight:	920 kg		
Approved minimum racing weight:	897 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
