



5TH CATEGORY - HISTORIC RACING  
**GROUP S**  
 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.

<b>Make of Car:</b>	Alfa Romeo	<b>Model:</b>	GTV 1750
<b>Period of Original Manufacture:</b>	1975 - 1977		
<b>Motorsport Australia Historic Group:</b>	Sc		
<b>Date of Issue of this Document:</b>	30/6/2022		



***Update Log***

30/6/2022	Document layout

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

<b>Description:</b>	Unitary construction
<b>Period of Manufacture:</b>	1975 - 1977
<b>Manufacturer:</b>	Alfa Romeo
<b>Chassis Number From:</b>	T116
<b>Chassis Number location:</b>	Centre front cross member
<b>Material:</b>	Mild Steel
<b>Comments</b>	None

### 1.2. FRONT SUSPENSION

<b>Description:</b>	Independent front suspension. Upper and lower wishbones		
<b>Spring Medium:</b>	Torsion bar		
<b>Damper Type:</b>	Telescopic	<b>Adjustable:</b>	Optional
<b>Anti-sway bar:</b>	Yes	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	Yes	<b>Method:</b>	Torsion bar tension
<b>Comments:</b>	Spring rates and ride heights may be adjusted		

### 1.3. REAR SUSPENSION

<b>Description:</b>	Semi-independent - De Dion Tube – Watts link		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Telescopic	<b>Adjustable</b>	No
<b>Anti-sway bar:</b>	Fitted	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	No	<b>Method:</b>	Camber and Toe-in
<b>Comments:</b>	Spring rates and ride heights are free		

### 1.4. STEERING

<b>Type:</b>	Rack and pinion	<b>Make:</b>	Alfa Romeo
<b>Comments</b>	None		

### 1.5. BRAKES

	Front	Rear
<b>Type:</b>	Disc	Disc
<b>Dimensions:</b>	260 mm x 13 mm	250 mm x 10 mm
<b>Material of drum/disc:</b>	Cast iron	Cast iron
<b>No. cylinders/pots per wheel:</b>	One	One
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper make:</b>	ATE	
<b>Caliper type:</b>		
<b>Material:</b>	Cast iron	
<b>Master cylinder make:</b>	ATE	
<b>Type:</b>	Single	
<b>Adjustable bias:</b>	No	
<b>Servo Fitted:</b>	Yes	
<b>Comments:</b>	Dual or tandem master cylinders permitted. Servo may be rendered inoperative	

## SECTION 2 - ENGINE

### 2.1. ENGINE

<b>Make:</b>	Alfa Romeo		
<b>Model:</b>	116		
<b>No. cylinders:</b>	Four	<b>Configuration:</b>	In line
<b>Cylinder Block-material:</b>	Aluminium	<b>Two/Four Stroke:</b>	Four
<b>Bore - Original:</b>	80 mm	<b>Max allowed:</b>	81.5 mm
<b>Stroke - original:</b>	88.5 mm	<b>Max allowed:</b>	88.5 mm
<b>Capacity - original:</b>	1779 cc	<b>Max allowed:</b>	1848 cc
<b>Identifying marks:</b>			
<b>Cooling method:</b>	Liquid		
<b>Comments:</b>	None		

### 2.2. CYLINDER HEAD

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

### 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>	No	<b>Location:</b>	N/A
<b>Comments:</b>	Oil cooler permitted		

### 2.4. IGNITION SYSTEM

<b>Type:</b>	Points, Coil and Distributor		
<b>Make:</b>	Bosch, Marelli		
<b>Comments</b>	Breakerless electronic ignition permitted		

### 2.5. FUEL SYSTEM

<b>Carburettor Make:</b>	Solex	<b>Model:</b>	C40DDH8
<b>Carburettor Make:</b>	Weber	<b>Model:</b>	40 DCOE 40
<b>Carburettor Make:</b>	Dellorto	<b>Model:</b>	DHLA
<b>Carburettor Number:</b>	Two		
<b>Size:</b>	40		
<b>Fuel injection Make:</b>	N/A	<b>Type:</b>	N/A
<b>Supercharged:</b>	No	<b>Type:</b>	N/A
<b>Comments:</b>	Carburettor throat size may be varied		

**SECTION 3 - TRANSMISSION**

**3.1. CLUTCH**

<b>Make:</b>	Alfa Romeo
<b>Type:</b>	Diaphragm
<b>Diameter:</b>	Not specified
<b>No. of Plates:</b>	One
<b>Actuation:</b>	Hydraulic
<b>Comments:</b>	Clutch and method of actuation are free

**3.2. TRANSMISSION**

<b>Type:</b>	Transaxle
<b>Make:</b>	Alfa Romeo
<b>Model:</b>	116
<b>Gearbox location:</b>	Rear
<b>No. forward speeds:</b>	Five
<b>Gearchange type and location:</b>	Floor remote
<b>Case material:</b>	Aluminium
<b>Identifying marks:</b>	N/A
<b>Comments:</b>	None

**3.3. FINAL DRIVE**

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

**3.4. TRANSMISSION SHAFTS (EXPOSED)**

<b>Number:</b>	Three
<b>Location:</b>	Engine to transaxle Transaxle to rear wheels
<b>Description:</b>	Tubular tailshaft and individual driveshafts
<b>Comments:</b>	None

**3.5. WHEELS & TYRES**

<b>Wheel type - Original:</b>	Steel disc	<b>Material - Original:</b>	Mild steel
<b>Wheel type - Allowed:</b>	Period alloy	<b>Material - Allowed:</b>	Period alloy or steel
<b>Fixture method:</b>	Bolt on	<b>No. studs:</b>	Four
<b>Wheel dia. &amp; rim width</b>	<b>FRONT</b>		<b>REAR</b>
<b>Original:</b>	5.5" x 14"		5.5" x 14"
<b>Allowed:</b>	6" x 14"		6" x 14"
<b>Tyre Section:</b>			
<b>Original:</b>	185/70 x 14"		185/70 x 14"
<b>Allowed:</b>	205/60 x 14"		205/60 x 14"
<b>Aspect ratio - minimum:</b>	60% minimum aspect ratio.		
<b>Comments:</b>	Refer approved tyre list.		

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

<b>Tank Location:</b>	Rear	<b>Capacity:</b>	54 litres (approximately)
<b>Fuel pump, type:</b>	Mechanical	<b>Make:</b>	Alfa Romeo
<b>Comments:</b>	Electric fuel pumps permitted		

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	Twelve	<b>Alternator fitted:</b>	Alternator
<b>Battery Location:</b>	Engine bay		
<b>Comments:</b>	None		

### 4.3. BODYWORK

<b>Type:</b>	Four seat fixed head Coupe	<b>Material:</b>	Steel
<b>No. of seats:</b>	Four	<b>No. doors:</b>	Two
<b>Comments:</b>	None		

### 4.4. DIMENSIONS

<b>Track - Front:</b>	1369 mm	<b>Rear:</b>	1358 mm
<b>Wheelbase:</b>	2400 mm	<b>Overall length:</b>	4190 mm
<b>Dry weight:</b>	1050 kg		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
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**Appendix**