

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:	Giulia 1600 TI Giulia 1600 TI Super
Period of Original Manufacture:	1962 – 1967 (Giulia 1600 TI) 1963 – 1970 (Giulia 1600 TI Super)		
Motorsport Australia Historic Group:	Nb		
Date of Issue of this Document:	19 July 2024		



Refer to Motorsport Australia Manual of Motor Sport, Vehicle Eligibility, Historic Touring Cars, General Requirements & Nb Regulations for permitted modifications.

Update Log

1/1/2024	Inclusion of kerb and minimum racing weights
19/7/2024	Front brake rotor type

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Unitary construction
Period of Manufacture:	1963 – 1964
Manufacturer:	Alfa Romeo
Chassis Number From:	AR*
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:	Caster and Camber - Threaded
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:	None	Adjustable:	No
Suspension adjustable:	No	Method:	N/A
Comments:	None		

1.4. STEERING

Type:	Recirculating Ball	Make:	Burman
Comments	None		

1.5. BRAKES

Giulia 1600 TI and Giulia 1600 TI Super	Front	Rear
Type:	Disc, solid	Disc, solid
Dimensions:	286 mm x 12.5 mm	246 mm x 10 mm
Material of drum/disc:	Cast iron	Cast Iron
No. cylinders/pots per wheel:	Two	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	ATE	ATE
Caliper type:	Tandem	
Material:	Cast iron	
Master cylinder make:	Bonaldi	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	Some models	
Comments:	None	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Alfa Romeo		
Model:	Giulia TI Super		
No. cylinders:	Four	Configuration:	In-line
Cylinder Block-material:	Alloy	Two/Four Stroke:	Four
Bore - Original:	78 mm	Max allowed:	79.5 mm
Stroke - original:	82 mm	Max allowed:	82 mm
Capacity - original:	1567 cc	Max allowed:	1628 cc
Identifying marks:	RHS front or LHS rear AR00516.***** AR00548.***** AR00551.***** AR00526.***** AR00585.***** AR00528.***** AR00514.***** AR00502.***** AR00536.*****		
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: One	Exhaust: One
No. of camshafts:	Two	Location: Head	Drive: Chain
Valve actuation:	Buckets		
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:	None		

2.4. IGNITION SYSTEM

Type:	Twin point distributor		
Make:	Bosch		
Comments:	Breakerless electronic ignition permitted		

2.5. FUEL SYSTEM

Carburettor Make - TI 1600:	Solex	Model:	PAIA 7
Carburettor Number:	One		
Size:	33 mm		
Fuel injection Make:	N/A	Type:	N/A
Supercharged:	No	Type:	N/A
Comments:	None		
Carburettor Make – TI Super:	Weber	Model:	DCOE
Carburettor Number:	Two		
Size:	45 mm		
Fuel injection Make:	N/A	Type:	N/A
Supercharged:	No	Type:	N/A
Comments:	None		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Various
Type:	Diaphragm
Diameter:	200 mm
No. of Plates:	One
Actuation:	Mechanical
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:	Helical gears
Ratios:	Various		
Differential type:	Hypoid	Type:	
Comments:	None		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Tubular shaft with 2 universal joints with front rubber coupling
Comments:	None

3.5. WHEELS & TYRES

Wheel type – Original TI 1600:	Steel	Material - Original:	Steel
Wheel type – Original TI Super:	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" x 15" 5.5" x 15"		5" x 15" 5.5" x 15"
Allowed	6" x 15"		6" 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:	45.5 litres
Fuel pump, type:	Mechanical	Make:	Alfa Romeo
Comments:	None		

4.2. ELECTRICAL SYSTEM

Voltage:	12	Alternator fitted:	No – Dynamo
Battery Location:	LHS of engine bay		
Comments:	None		

4.3. BODYWORK

Type:	Closed	Material:	Steel
No. of seats:	Five	No. doors:	Four
Comments:	Doors: Steel Body: Steel Bonnet/Boot: Steel Window - rear Plexiglass (TI Super only) Inner lights can be removed to allow fresh air intake (TI Super only).		

4.4. DIMENSIONS

Track - Front:	1310 mm (max)	Rear:	1270 mm (max)
Wheelbase:	2510 mm	Overall length:	4115 mm
Agreed Manufacturer's kerb weight - TI:	1060 kg		
Agreed minimum racing weight - TI:	1034 kg		
Agreed Manufacturer's kerb weight – TI Super:	960 kg		
Agreed minimum racing weight – TI Super:	936 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix

Windows:

Front door ventilator windows and rear door windows are Plexiglas (TI Super only):



For 1970, updates included dual-circuit brakes, centre-mounted handbrake lever to replace under-dash "umbrella handle", larger external doorhandles, and top-hinged pedals (the latter in left hand drive models only; right hand drive continued with bottom-hinged pedals to the end of production (TI Super only).

Interior

The heater, door armrests, the grab handle in front of the passenger, the glove box lid, and ashtrays were deleted in the TI Super only.

Instruments

Dashboard - two large round instruments (speedo and tacho) and clock (TI Super only).