



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.

Make of Car:	Fiat	Model:	125 125S 125 Special
Period of Original Manufacture:	1968-1972		
Motorsport Australia Historic Group:	NcE		
Date of Issue of this Document:	8/12/2024		



Update Log

25/11/2024	Document creation

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Unitary construction
Period of Manufacture:	1968-1972
Manufacturer:	Fiat
Chassis Number From:	124 CC xxx
Chassis Number location:	RH Firewall
Material:	Steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Double wishbones		
Spring Medium:	Coil		
Damper Type:	Telescopic	Adjustable:	No
Anti-sway bar:	Yes	Adjustable:	No
Suspension adjustable:	No	Method:	Camber, Caster, Toe
Comments:	Spring rates and ride height unrestricted		

1.3. REAR SUSPENSION

Description:	Live rear axle with Trailing arms		
Spring Medium:	Semi-elliptical leaf		
Damper Type:	Telescopic	Adjustable	No
Anti-sway bar:	No	Adjustable:	No
Suspension adjustable:	No	Method:	N/A
Comments:	Spring rates and ride height unrestricted		

1.4. STEERING

Type:	Worm and roller	Make:	Fiat
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc - solid	Disc - solid
Dimensions:	227 mm x 17 mm	227 mm x 46 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	One	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	Fiat	
Caliper type:	Sliding	
Material:	Alloy	
Master cylinder make:	Fiat	
Type:	Tandem	
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:	Twin master cylinders permitted	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Fiat		
Model:	125 – 125 B.000 125 Special – 125 A		
No. cylinders:	Four	Configuration:	In line
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore – Original - 1608:	80 mm	Max allowed:	81.5 mm
Stroke – original - 1608:	80 mm	Max allowed:	80 mm
Capacity – original - 1608:	1608 cc	Max allowed:	1669 cc
Identifying marks:	Block casting number 125 – 125B & 125 Special – 125A		
Cooling method:	Liquid		
Comments:	None		

2.2. CYLINDER HEAD

Make:	Fiat		
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:	Toothed belt
Valve actuation:	Buckets		
Spark plugs/cylinder:	One		
Identifying marks:	None		
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:	Points, Coil and Distributor		
Make:	Magnetti, Marelli		
Comments:	None		

2.5. FUEL SYSTEM

Carburettor Make:	Weber	Model:	34 DCHE/10
Carburettor Number:	One (Dual choke)		
Size:	34mm		
Carburettor Make:	Solex	Model:	C34 PAIA/33
Carburettor Number:	One (Dual choke)		
Size:	34mm		
Fuel injection Make:	N/A	Type:	N/A
Supercharged:	No	Type:	N/A
Comments:	None		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Fiat
Type:	Diaphragm
Diameter:	200 mm
No. of Plates:	One
Actuation:	Mechanical (cable)
Comments:	Clutch and method of actuation are free

3.2. TRANSMISSION

Type:	Five speed synchromesh
Make:	Colotti
Model	124
Gearbox location:	Behind engine
No. forward speeds:	125 – 4 125S – 5
Gearchange type and location:	Stick on floor
Case material:	Aluminium Alloy
Identifying marks:	
Comments:	Ratios free

3.3. FINAL DRIVE

Make:	Colotti	Model:	125
Wheel drive:	Rear		
Ratios:	Various		
Differential type:	Open		
Comments:	Ratios free Limited slip differential allowed		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	Two
Location:	Gearbox to final drive
Description:	Centre mounted Rubber Universal
Comments:	None

3.5. WHEELS & TYRES

Wheel type - Original:	Disc	Material - Original:	Alloy
Wheel type - Allowed:	Cast alloy	Material - Allowed:	Aluminium Alloy
Fixture method:	Bolt on	No. studs:	Four
Wheel dia. & rim width	FRONT		REAR
Original:	5" x 13"		5" x 13"
	6" x 13"		6" x 13"
Allowed	7" x 13"		7" x 13"
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 litres
Fuel pump, type:	Mechanical	Make:	Fiat
Comments:	Electric pumps permitted		

4.2. ELECTRICAL SYSTEM

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

4.3. BODYWORK

Type:	Closed touring	Material:	Steel
No. of seats:	Five	No. doors:	Four
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1313 mm	Rear:	1291 mm
Wheelbase:	2505 mm	Overall length:	4223 mm
Dry weight:	983 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix