



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:	Triumph	Model:	Spitfire Mk 1/2/3
Period of Original Manufacture:	Mk1 1962>1-1966 Mk2 1966>3-1968 Mk3 1968>6-1971		
Motorsport Australia Historic Group:	Sb		
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Update Log

11/10/2023	Document layout
31/12/2024	Inclusion of kerb and minimum racing weights

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Backbone steel channel
Period of Manufacture:	Mk1 1962>1-66 Mk2 1966>3-68 Mk3 1968>6-71
Manufacturer:	Standard Triumph
Chassis Number From:	
Chassis Number location:	Front Crossmember
Material:	Steel
Comments	

1.2. FRONT SUSPENSION

Description:	Independent upper and lower wishbone		
Spring Medium:	Coil		
Damper Type:	Telescopic	Adjustable:	No
Anti-sway bar:	Yes	Adjustable:	No
Suspension adjustable:	No	Method:	N/A
Comments:	Spring rate and ride height free		

1.3. REAR SUSPENSION

Description:	Independent Swing axle		
Spring Medium:	Transverse Leaf Mk3 Single leaf		
Damper Type:	Telescopic	Adjustable	No
Anti-sway bar:	Nil	Adjustable:	N/A
Suspension adjustable:	No	Method:	N/A
Comments:			

1.4. STEERING

Type:	Rack and Pinion	Make:	Triumph
Comments			

1.5. BRAKES

	Front	Rear
Type:	Disc	Drum
Dimensions:	229mm	177.8 x 32.75
Material of drum/disc:	Cast Iron	Cast Iron
No. cylinders/pots per wheel:	One	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	Girling	
Caliper type:	Single Piston	
Material:	Cast Iron	
Master cylinder make:	Girling	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:	Twin Master Cylinders Permitted	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Standard Triumph				
Model:	Spitfire				
No. cylinders:	Four		Configuration:	Inline	
Cylinder Block-material:	Cast Iron		Two/Four Stroke:	Four	
Model	Mk 1/2	Mk 3	Model	Mk 1/2	Mk 3
Bore - Original:	69.3mm	73.7mm	Max:	70.8mm	75.2mm
Stroke - original:	76mm	76mm	Max:	76mm	76mm
Capacity - original:	1147cc	1297cc	Max:	1196cc	1350cc
Identifying marks:	N/A				
Cooling method:	Liquid				
Comments:					

2.2. CYLINDER HEAD

Make:	Triumph		
No. of valves/cylinder:	Two	Inlet: One	Exhaust: One
No. of ports total:		Inlet: Mk 1/2 Two Mk 3 Four	Exhaust: Four
No. of camshafts:	One	Location: Block	Drive: Chain
Valve actuation:	Pushrod		
Spark plugs/cylinder:	One		
Identifying marks:	N/A		
Comments:			

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:	Coil and Distributor with points,
Make:	Bosch
Comments	

2.5. FUEL SYSTEM

Carburettor Make:	SU	Model:	HS2			
Carburettor Number:	Two					
Size:						
Fuel injection Make:	N/A	Type:	N/A			
Supercharged:	No	Type:	N/A			
Comments:	Approved Carburettors:	Mk 1 / 2	Weber DCOE	No.	One	
	Approved Carburettors:	Mk 3	Twin Choke Solex	No.	One	

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Various
Type:	Diaphragm
Diameter:	
No. of Plates:	One
Actuation:	Hydraulic
Comments:	

3.2. TRANSMISSION

Type:	Syncromesh
Make:	Triumph
Gearbox location:	Behind engine
No. forward speeds:	Four optional Overdrive
Gearchange type and location:	Floor remote
Case material:	Cast Iron
Identifying marks:	
Comments:	

3.3. FINAL DRIVE

Make:	Triumph	Model:	Spitfire
Wheel drive method:	Rear		
Ratios:	Various		
Differential type:	Open/Hypoid		
Comments:			

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	Three
Location:	Gearbox to Final drive and final drive to wheels
Description:	Tailshaft with Hookes type joints Half shafts with Hookes type joints
Comments:	

3.5. WHEELS & TYRES

Wheel type - Original:	Pressed steel or wire spoke	Material - Original:	Steel
Wheel type - Allowed:	Steel, Wire or Alloy	Material - Allowed:	Steel/Alloy
Fixture method:	Four stud or Centre lock	No. studs:	Four or Centre lock
Wheel dia. & rim width	FRONT and REAR		
Original:	Mk 1/2	3.5" or 4" x 13"	Mk 3 4.5" x 13"
Allowed	5" x 13"		5" x 13"
Tyre Section:			
Original:	5.20" x 13"		5.20" x 13"
Allowed:	175 x 13"		175 x 13"
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list. Tyre section chosen must suit rim dimensions		

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Rear	Capacity:	litres
Fuel pump, type:	Mechanical	Make:	
Comments:	Fuel Pump/s Free		

4.2. ELECTRICAL SYSTEM

Voltage:	Twelve	Alternator fitted:	Yes
Battery Location:			
Comments:	None		

4.3. BODYWORK

Type:	Sports Roadster	Material:	Steel
No. of seats:	Two	No. doors:	Two
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1245mm	Rear:	1220mm from chassis No.FH5000 on 1270mm
Wheelbase:	2110mm	Overall length:	3685 mm Mk 3 3730mm
Approved Manufacturer's kerb weight:	748 kg		
Approved minimum racing weight:	670 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
