



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:	TR3 A B
Period of Original Manufacture:	TR3A September 1957 – June 1961 TR3B June 1961 - 1962		
Motorsport Australia Historic Group:	Sa		
Date of Issue of this Document:	30/6/2022		



Update Log

30/6/2022	Document layout

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Steel ladder frame
Period of Manufacture:	TR3A September 1957 – June 1961 TR3B June 1961 - 1962
Manufacturer:	Triumph
Chassis Number From:	TS22014 – TS82346 TR3B (1991 cc) – TSF1 – TSF530L TR3B (2138 cc – TCF1L – TCF2804L
Chassis Number location:	Firewall
Material:	Mild steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent – upper and lower wishbones		
Spring Medium:	Coil		
Damper Type:	Telescopic	Adjustable:	No
Anti-sway bar:	Fitted	Adjustable:	No
Suspension adjustable:	No	Method:	N/A
Comments:	Spring rates and ride height are free		

1.3. REAR SUSPENSION

Description:	Live axle		
Spring Medium:	Semi elliptic leaf		
Damper Type:	Armstrong lever arm	Adjustable	No
Anti-sway bar:	No	Adjustable:	N/A
Suspension adjustable:	No	Method:	N/A
Comments:	Spring rates and ride height are free		

1.4. STEERING

Type:	Worm and peg	Make:	Triumph
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc	Drum
Dimensions:	254 mm	280 mm
Type:	Disc*	Drum
Dimensions – TR3B:	270 mm	280 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	Two	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	Girling	
Caliper type:		
Material:	Cast iron	
Master cylinder make:	Girling or Lockheed	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	No	
Comments:	Servo and/or Tandem master cylinders are permitted. * Disc Front Brakes fitted from TS13046 (9/1956)	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Triumph		
Model:	TR3		
No. cylinders:	Four	Configuration:	In line
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore – Original – 1991 cc:	83 mm	Max allowed:	84.5 mm
Stroke – original – 1991 cc:	92 mm	Max allowed:	92 mm
Capacity – original – 1991 cc:	1991 cc	Max allowed:	2064 cc
Bore – Original – 2138 cc:	86 mm	Max allowed:	87.5 mm
Stroke – original – 2138 cc:	92 mm	Max allowed:	92 mm
Capacity – original – 2138 cc:	2138 cc	Max allowed:	2212 cc
Identifying marks:	Engine number under #3 spark plug		
Cooling method:	Liquid		
Comments:	All TR3A and TR3B cars permitted to use the 2138 cc engine		

2.2. CYLINDER HEAD

Make:	Triumph		
No. of valves/cylinder:	Two	Inlet: One	Exhaust: One
No. of ports total:	Eight	Inlet: Four	Exhaust: Four
No. of camshafts:	One	Location: Block	Drive: Chain
Valve actuation:	Pushrod and rockers		
Spark plugs/cylinder:	One		
Identifying marks:	N/A		
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:	Lucas
Comments:	None

2.5. FUEL SYSTEM

Carburettor Make:	SU	Model:	H6X
Carburettor Number:	Two		
Size:	1 ¾"		
Fuel injection Make:	N/A	Type:	N/A
Supercharged:	No	Type:	N/A
Comments:	Carburettor throat size unrestricted		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Borg and Beck
Type:	Dry plate
Diameter:	229 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	Clutch free

3.2. TRANSMISSION

Type:	Synchromesh (2 nd , 3 rd , 4 th)
Make:	Triumph TR2
Gearbox location:	Behind engine
No. forward speeds:	Four
Gearchange type and location:	Floor remote
Case material:	Cast iron
Identifying marks:	N/A
Comments:	Overdrive optional. Ratios free

3.3. FINAL DRIVE

Make:	Triumph	Model:	TR2
Wheel drive method:	Rear		
Ratios:	3.7:1 (standard)		
Differential type:	Hypoid bevel – free		
Comments:	Limited slip differential permitted. Ratios free		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Tubular tailshaft with universal joints
Comments:	None

3.5. WHEELS & TYRES

Wheel type - Original:	Disc Wire Spoke	Material - Original:	Steel
Wheel type - Allowed:	Disc Wire Spoke	Material - Allowed:	Steel
Fixture method:	Studs Centre lock	No. studs:	Four
Wheel dia. & rim width	FRONT		REAR
Original:	4.5" x 15"		4.5" x 15"
Allowed	5" x 15"		5" x 15"
Tyre Section:			
Original:	5.5 x 15"		5.5 x 15"
Allowed:	185 x 15"		185 x 15"
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list.		

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	In boot	Capacity:	45 litres
Fuel pump, type:	Mechanical	Make:	
Comments:	Electric fuel pump permitted		

4.2. ELECTRICAL SYSTEM

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

4.3. BODYWORK

Type:	Two seat sports roadster	Material:	Steel
No. of seats:	Two	No. doors:	Two
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1143mm	Rear:	1155 mm
Wheelbase:	2235 mm	Overall length:	3835 mm
Dry weight:	970 kg (approximately)		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix