



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:	TR4 A
Period of Original Manufacture:	TR4 - January 1965 TR4A – January 1965 – July 1967		
Motorsport Australia Historic Group:	Sb		
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:	TR4 - January 1965 TR4A – January 1965 – July 1967
Manufacturer:	Triumph
Chassis Number From:	TR4 (1991 cc) – CTC4034 TR4A – CTC50001 – CTC 78684
Chassis Number location:	Firewall
Material:	Mild steel
Comments	Non specification TR4As utilised independent rear suspension

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:	Non specification TR4As utilised independent rear suspension – by trailing wishbones and coil springs Spring rates and ride height are free.		

1.4. STEERING

Type:	Rack and pinion	Make:	Alford and Alder
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc	Drum
Dimensions:	270 mm	229 mm x 43 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	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	No	
Comments:	Early cars (up to CT 4389) fitted with 280 mm discs. Servo and/or Tandem master cylinders are permitted.	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Triumph		
Model:	TR4		
No. cylinders:	Four	Configuration:	In line
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore – Original:	86 mm	Max allowed:	87.5 mm
Stroke – original:	92 mm	Max allowed:	92 mm
Capacity – original:	2138 cc	Max allowed:	2212 cc
Identifying marks:	Engine number under #3 spark plug		
Cooling method:	Liquid		
Comments:	None		

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:	Oil cooler permitted		

2.4. IGNITION SYSTEM

Type:	Points, Coil and Distributor		
Make:	Lucas		
Comments:	None		

2.5. FUEL SYSTEM

Carburettor Make:	SU Stromberg	Model:	H6 HS6
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:	TR4s fitted with diaphragm clutch 216 mm. Clutch free

3.2. TRANSMISSION

Type:	Syncromesh
Make:	Triumph TR4
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:	TR4
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:	TR4 – One TR4A - Three
Location:	TR4 - Gearbox to final drive TR4A – Gearbox to final drive – final drive to rear wheel.
Description:	TR4 - Tubular tailshaft with universal joints. TR4A - Individual driveshafts with sliding splines and universal joints on IRS
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	6" x 15"		6" x 15"
Tyre Section:			
Original:	5.90 x 15"		5.90 x 15"
Allowed:	195 x 15"		195 x 15"
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list. Period alloy style wheels permitted.		

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:	Alternator
Battery Location:	Engine bay		
Comments:	Some TR4As were fitted with alternators as original equipment. Alternators permitted on all TR4As		

4.3. BODYWORK

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

4.4. DIMENSIONS

Track - Front:	1245mm	Rear:	1220 mm
Wheelbase:	2235 mm	Overall length:	3960 mm
Dry weight:	970 kg (approximately)		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix