



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.

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



***Update Log***

30/6/2022	Document layout

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

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

### 1.2. FRONT SUSPENSION

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

### 1.3. REAR SUSPENSION

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

### 1.4. STEERING

<b>Type:</b>	Worm and peg	<b>Make:</b>	Triumph
<b>Comments</b>	None		

### 1.5. BRAKES

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

## SECTION 2 - ENGINE

### 2.1. ENGINE

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

### 2.2. CYLINDER HEAD

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

### 2.3. LUBRICATION

<b>Method:</b>	Wet sump	<b>Oil tank location:</b>	N/A
<b>Dry sump pump type:</b>	N/A	<b>Location:</b>	N/A
<b>Oil cooler standard:</b>	No	<b>Location:</b>	N/A
<b>Comments:</b>	None		

### 2.4. IGNITION SYSTEM

<b>Type:</b>	Points, Coil and Distributor		
<b>Make:</b>	Lucas		
<b>Comments:</b>	None		

### 2.5. FUEL SYSTEM

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

**SECTION 3 - TRANSMISSION**

**3.1. CLUTCH**

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

**3.2. TRANSMISSION**

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

**3.3. FINAL DRIVE**

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

**3.4. TRANSMISSION SHAFTS (EXPOSED)**

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

**3.5. WHEELS & TYRES**

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

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

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

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	Twelve	<b>Alternator fitted:</b>	Generator
<b>Battery Location:</b>	Engine bay		
<b>Comments:</b>	None		

### 4.3. BODYWORK

<b>Type:</b>	Two seat sports roadster	<b>Material:</b>	Steel
<b>No. of seats:</b>	Two	<b>No. doors:</b>	Two
<b>Comments:</b>	None		

### 4.4. DIMENSIONS

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

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
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**Appendix**