



**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>	TR2
<b>Period of Original Manufacture:</b>	July 1953 – October 1955		
<b>Motorsport Australia Historic Group:</b>	Sa		
<b>Date of Issue of this Document:</b>	31/12/2024		



***Update Log***

30/6/2022	Document layout
31/12/2024	Inclusion of kerb and minimum racing weights

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

<b>Description:</b>	Steel ladder frame
<b>Period of Manufacture:</b>	July 1953 – October 1955
<b>Manufacturer:</b>	Triumph
<b>Chassis Number From:</b>	TS1 – TS8636
<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>	Cam and lever	<b>Make:</b>	Triumph
<b>Comments</b>	None		

### 1.5. BRAKES

	Front	Rear
<b>Type:</b>	Drum	Drum
<b>Dimensions:</b>	254 mm	254 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>	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>	TR2		
<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:</b>	83 mm	<b>Max allowed:</b>	84.5 mm
<b>Stroke - original:</b>	92 mm	<b>Max allowed:</b>	92 mm
<b>Capacity - original:</b>	1991 cc	<b>Max allowed:</b>	2064 cc
<b>Identifying marks:</b>	Engine number under #3 spark plug		
<b>Cooling method:</b>	Liquid		
<b>Comments:</b>	None		

### 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>	HX4
<b>Carburettor Number:</b>	Two		
<b>Size:</b>	1 ½ "		
<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

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

#### 3.2. TRANSMISSION

Type:	Syncromesh (2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> )
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

<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>Approved Manufacturer's kerb weight:</b>	955 kg		
<b>Approved minimum racing weight:</b>	862 kg		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
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