



5TH CATEGORY - HISTORIC RACING  
**GROUP Sb**  
 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>	TR6
<b>Period of Original Manufacture:</b>	1968 - 1976		
<b>Motorsport Australia Historic Group:</b>	Sb		
<b>Date of Issue of this Document:</b>	May 2020		



<b>Update Log</b>	
May 2020	Vacuum operated Lucas mixture control may be replaced with a Kinsler mechanical linkage unit see Fuel system comments

## SECTION 1 - CHASSIS

<b>1.1 CHASSIS FRAME</b>		
<b>Description:</b>	Cruciform Frame	<b>Period of Manufacture:</b> 9/1968 – 7/1976
<b>Manufacturer:</b>	Triumph	
<b>Chassis no. from:</b>	CP 25001 – CF58328	
<b>Chassis no. location:</b>	NS Inner Guard	
<b>Material:</b>	Mild Steel	
<b>Comment:</b>	None	

<b>1.2 FRONT SUSPENSION</b>		
<b>Description:</b>	Independent – Upper & Lower Wishbone	
<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>
<b>Comment:</b>	Spring Rates & Ride Height Unrestricted.	

<b>1.3 REAR SUSPENSION</b>		
<b>Description:</b>	Independent – Semi Trailing Wishbones	
<b>Spring medium:</b>	Coil	
<b>Damper type:</b>	Armstrong – Lever Arm	<b>Adjustable:</b> No
<b>Anti-sway bar:</b>	Not Fitted	<b>Adjustable:</b> N/A
<b>Suspension adjustable:</b>	No	<b>Method:</b>
<b>Comment:</b>	Spring Rates & Ride Height Unrestricted. Fore & Aft Location permitted Telescopic Shock Absorbers Permitted.	

<b>1.4 STEERING</b>			
<b>Type:</b>	Rack & Pinion	<b>Make:</b>	Alford & Alder
<b>Comment:</b>	None		

<b>1.5 BRAKES</b>			
	<b>Front</b>		<b>Rear</b>
<b>Type:</b>	Disc		Drum
<b>Dimensions:</b>	280mm		229 x 43mm
<b>Material of drum/disc</b>	Cast iron		Cast Iron
<b>No. cylinders/pots per wheel:</b>	2		1
<b>Actuation:</b>	Hydraulic		Hydraulic
<b>Caliper: Make:</b>	Girling	<b>Material</b>	Cast Iron
<b>Master cylinder make:</b>	Girling	<b>Type</b>	Tandem
<b>Adjustable bias:</b>	No		
<b>Servo Fitted:</b>	Yes		
<b>Comment:</b>	Dual Master Cylinder Permitted		

## SECTION 2 - ENGINE

<b>2.1 ENGINE</b>			
<b>Make:</b>	Triumph		
<b>Model:</b>	TR6		
<b>No. cylinders:</b>	6	<b>Configuration:</b>	In Line
<b>Cylinder Block-material:</b>	Cast Iron	<b>Two/Four Stroke</b>	Four
<b>Bore - Original:</b>	74.7mm	<b>Max. allowed:</b>	76.2mm
<b>Stroke - original:</b>	95mm	<b>Max. allowed:</b>	95mm
<b>Capacity - original:</b>	2498cc	<b>Max. allowed:</b>	2599cc
<b>Cooling method:</b>	Liquid		
<b>Identifying marks:</b>			
<b>Comment:</b>	None		

<b>2.2 CYLINDER HEAD</b>					
<b>Make:</b>	Triumph				
<b>No. of valves/cylinder-</b>	2	<b>Inlet:</b>	1	<b>Exhaust:</b>	1
<b>No. of ports total:</b>	12	<b>Inlet:</b>	6	<b>Exhaust:</b>	6
<b>No. of camshafts:</b>	1	<b>Location:</b>	Block	<b>Drive:</b>	Chain
<b>Valve actuation:</b>	Pushrod				
<b>Spark plugs/cylinder:</b>	1				
<b>Identifying marks:</b>					
<b>Comment:</b>	None				

<b>2.3 LUBRICATION</b>			
<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>Comment:</b>	Oil Cooler Permitted		

<b>2.4 IGNITION SYSTEM</b>	
<b>Type:</b>	Coil & Distributor
<b>Make:</b>	Lucas
<b>Comment:</b>	None

<b>2.5 FUEL SYSTEM</b>					
<b>Carburettor: Make:</b>	Stromberg	<b>Model:</b>	175 CD *	<b>Size:</b>	
<b>Fuel injection Make:</b>	Lucas	<b>Type:</b>	Mechanical		
<b>Supercharged:</b>	N/A	<b>Type:</b>			
<b>Comment:</b>	US Specification cars fitted with carburettors (2).All cars may fit either Lucas injection or Stromberg carburettors. It is permitted to replace the vacuum operated mixture control unit attached to the injection pump (See Appendix)				

### SECTION 3 - TRANSMISSION

3.1 CLUTCH		
<b>Make:</b> Borg & Beck	<b>Type:</b> Diaphragm	<b>Diameter:</b> 215mm
<b>No. of Plates:</b>	1	
<b>Actuation:</b>	Hydraulic	
<b>Comment:</b>	Clutch Free	

3.2 TRANSMISSION			
<b>Type:</b>	4 Speed Synchromesh (O/Drive Optional)		
<b>Make:</b>	Triumph	<b>Model:</b>	<b>Gearbox location:</b> Behind Engine
<b>No. forward speeds:</b>	4(+ Optional O/D)		
<b>Gearchange type and location:</b>	Remote - Floor		
<b>Case material:</b>	Cast Iron		
<b>Identifying marks:</b>			
<b>Comment:</b>	Ratios Free		

3.3 FINAL DRIVE			
<b>Make:</b>	Triumph	<b>Model:</b>	
<b>Drive:</b>	Rear		
<b>Ratios:</b>	3.45:1, 3.7:1		
<b>Differential:</b>	Free	<b>Type:</b> Hypoid Bevel	
<b>Comment:</b>	Ratios Free. Limited Slip Differential Permitted.		

3.4 TRANSMISSION SHAFTS (EXPOSED)			
<b>Number:</b>	Three (3)	<b>Location:</b>	Gearbox to Final Drive. Final Drive to Rear Wheels
<b>Description:</b>	Tubular Tailshaft and Individual Driveshafts with Universal Joints & Sliding Splines		
<b>Comment:</b>	None		

3.5 WHEELS & TYRES			
<b>Wheel type:</b>	<b>Original:</b> Disc or Wire Spoke	<b>Material:</b>	<b>Original:</b> Steel
	<b>Allowed:</b> Period Alloy		<b>Allowed:</b> Steel or Alloy
<b>Fixture method:</b>	Bolt On	<b>No. studs:</b>	4
	<b>FRONT</b>	<b>REAR</b>	
<b>Wheel dia. &amp; rim width</b>			
	<b>Original:</b> 5.5 x 15	5.5 x 15	
	<b>Allowed:</b> 6 x 15	6 x 15	
<b>Tyre Section:</b>			
	<b>Original:</b> 175 x 15	175 x 15	
	<b>Allowed:</b> 195 x 15	195 x 15	
<b>Aspect ratio - minimum:</b>	60%		60%
<b>Comment:</b>	Tyres/Rims limited to dimensions which fit under wheel arch. Alloy wheels must be of period style.		

#### SECTION 4 - GENERAL

<b>4.1 FUEL SYSTEM</b>			
<b>Tank Location:</b>	In Boot	<b>Capacity:</b>	51 Litres
<b>Fuel pump, type</b>	Electric	<b>Make:</b>	Lucas
<b>Location:</b>	In Boot		
<b>Comment:</b>	Fuel Pump/s Free		

<b>4.2 ELECTRICAL SYSTEM</b>			
<b>Voltage:</b>	12v	<b>Alternator fitted:</b>	Yes
<b>Battery Location:</b>	Engine Compartment		
<b>Comment:</b>	None		

<b>4.3 BODYWORK</b>			
<b>Type:</b>	Two Seat Roadster	<b>Material:</b>	Steel
<b>No. of seats:</b>	2	<b>No. doors:</b>	2
<b>Comment:</b>	Hardtop Permitted		

<b>4.4 DIMENSIONS</b>			
<b>Track - Front:</b>	1276mm	<b>Rear:</b>	1264mm
<b>Wheelbase:</b>	2240mm	<b>Overall length:</b>	3937mm
<b>Dry weight:</b>	1053Kg		
<b>Comment:</b>	None		

<b>4.5 SAFETY EQUIPMENT</b>			
As Per Motorsport Australia Category 5 Group Regulations			

## Appendix

For Triumph TR6 fitted with Lucas fuel injection system:

- (a) It is permitted to replace the vacuum operated mixture control unit attached to the injection pump.
- (b) The replacement unit will be a Kinsler Fuel Injection (USA) direct linkage mixture control unit.
- (c) With this conversion the use of a MSD Soft Touch rev Limiter Part no 8728 with a 7500RPM limit will be mandatory.
- (d) The limiter will be in an easily accessible location within the vehicle's engine bay.
- (e) The wiring loom is to be visibly accessible.

The limiter will be subject to testing at race meetings



Kinsler direct linkage mixture control unit

