



**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>	GT6 Mark 1 Mark 2 GT6+ (USA)
<b>Period of Original Manufacture:</b>	Mark 1 July 1968 to Sep 1968 Mark 2 July 1968 to Dec 1970		
<b>Motorsport Australia Historic Group:</b>	Sc		
<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 "C" channel backbone cruciform
<b>Period of Manufacture:</b>	Mark 1 July 1968 to Sep 1968 Mark 2 July 1968 to Dec 1970
<b>Manufacturer:</b>	Standard Triumph
<b>Chassis Number From:</b>	Mark 1 KC1 – KC 13752 Mark 2 KC 50001 to KC58046 & KC75001 – KC82938
<b>Chassis Number location:</b>	Left hand front inner guard near door hinge
<b>Material:</b>	Steel
<b>Comments</b>	None

### 1.2. FRONT SUSPENSION

<b>Description:</b>	Independent unequal length upper & 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>	Yes	<b>Method:</b>	Shims
<b>Comments:</b>	Spring rates and ride height are free		

### 1.3. REAR SUSPENSION

<b>Description:</b>	Independent Mark 1 pressed steel upright with lower wishbone & swing axle Mark 2 Cast steel upright with lower wishbone & half shaft		
<b>Spring Medium:</b>	Transverse leaf		
<b>Damper Type:</b>	Telescopic	<b>Adjustable</b>	No
<b>Anti-sway bar:</b>	Fitted	<b>Adjustable:</b>	N/A
<b>Suspension adjustable:</b>	Yes	<b>Method:</b>	Toe in (by shims)
<b>Comments:</b>	Spring Rates & Ride Height Unrestricted.		

### 1.4. STEERING

<b>Type:</b>	Rack and pinion	<b>Make:</b>	Standard Triumph Alder and Adler
<b>Comments</b>	4.25 turns lock to lock		

### 1.5. BRAKES

	Front	Rear
<b>Type:</b>	Disc	Drum
<b>Dimensions:</b>	247 mm x 12.7 mm	203 mm x 32 mm
<b>Material of drum/disc:</b>	Cast iron	Cast iron
<b>No. cylinders/pots per wheel:</b>	Two	Two
<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	
<b>Type:</b>	Single or twin - Single up to July 1967, twin from August 1967.	
<b>Adjustable bias:</b>	No	
<b>Servo Fitted:</b>	Yes	
<b>Comments:</b>	Dual master cylinders are permitted.	

## SECTION 2 - ENGINE

### 2.1. ENGINE

<b>Make:</b>	Triumph		
<b>Model:</b>	Standard 6		
<b>No. cylinders:</b>	Six	<b>Configuration:</b>	In line
<b>Cylinder Block-material:</b>	Cast iron	<b>Two/Four Stroke:</b>	Four
<b>Bore – Original:</b>	74.7 mm	<b>Max allowed:</b>	76.2 mm
<b>Stroke – original:</b>	76 mm	<b>Max allowed:</b>	76 mm
<b>Capacity – original:</b>	1998 cc	<b>Max allowed:</b>	2079 cc
<b>Identifying marks:</b>	N/A		
<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>	Twelve	<b>Inlet:</b> Six	<b>Exhaust:</b> Six
<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>	Oil cooler permitted		

### 2.4. IGNITION SYSTEM

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

### 2.5. FUEL SYSTEM

<b>Carburettor Make:</b>	Stromberg	<b>Model:</b>	150 CD
<b>Carburettor Number:</b>	Two		
<b>Size:</b>			
<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>	Laycock Borg and Beck
<b>Type:</b>	Diaphragm
<b>Diameter:</b>	214 mm
<b>No. of Plates:</b>	One
<b>Actuation:</b>	Hydraulic
<b>Comments:</b>	Clutch free

#### 3.2. TRANSMISSION

<b>Type:</b>	Syncromesh
<b>Make:</b>	Triumph
<b>Gearbox location:</b>	Behind engine
<b>No. forward speeds:</b>	Four
<b>Gearchange type and location:</b>	Remote lever, centre tunnel
<b>Case material:</b>	Alloy
<b>Identifying marks:</b>	Stamped on the left-hand side of the gearbox casing
<b>Comments:</b>	Laycock D type overdrive (electrically operated) on 3rd & 4th gear 0.802:1 ratio Optional non overdrive gear box det No. 515449

#### 3.3. FINAL DRIVE

<b>Make:</b>	Triumph	<b>Model:</b>	GT6
<b>Wheel drive method:</b>	Rear		
<b>Ratios:</b>	3.327:1, 3.89:1		
<b>Differential type:</b>	Hypoid bevel – free		
<b>Comments:</b>	Limited slip differential permitted. Optional diff ratio: 4.11:1, 4.375:1, 4.55:1		

#### 3.4. TRANSMISSION SHAFTS (EXPOSED)

<b>Number:</b>	Three
<b>Location:</b>	Drive shaft with two universal joints, Mark - Swing shaft with one universal x 2 Mark 2 - Half shaft with two universal joints x 2
<b>Description:</b>	Tubular tailshaft with universal joints
<b>Comments:</b>	None

#### 3.5. WHEELS & TYRES

Wheel type - Original:	Disc Wire	Material - Original:	Steel Alloy
Wheel type - Allowed:	Cast alloy	Material - Allowed:	Steel Alloy
Fixture method:	Studs Centre nut	No. studs:	Four
Wheel dia. & rim width	FRONT		REAR
Original:	4.5" x 13"		4.5" x 13"
Allowed	6" x 13"		6" x 13"
Tyre Section:			
Original:	155/70 x 13"		155/70 x 13"
Allowed:	185/60 x 13"		185/60 x 13"
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list.		

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

<b>Tank Location:</b>	Rear	<b>Capacity:</b>	44 litres
<b>Fuel pump, type:</b>	Mechanical/ engine	<b>Make:</b>	Triumph
<b>Comments:</b>	Fuel pumps free		

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	Twelve	<b>Alternator fitted:</b>	Mark 1 – Generator Mark 2 - Alternator
<b>Battery Location:</b>	Engine bay		
<b>Comments:</b>	None		

### 4.3. BODYWORK

<b>Type:</b>	Coupe	<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>	1245mm	<b>Rear:</b>	1245 mm
<b>Wheelbase:</b>	2110 mm	<b>Overall length:</b>	3734 mm
<b>Approved Manufacturer's kerb weight:</b>	864 kg		
<b>Approved minimum racing weight:</b>	783 kg		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
------------------------------------

