



5TH CATEGORY - HISTORIC RACING  
**GROUP N**  
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>	BMW	<b>Model:</b>	1600-2 & 1602
<b>Period of Original Manufacture:</b>	1600-2 - Import late 1967 – 1971 (circular tail lights) 1602 - from July 1971 - 1973		
<b>Motorsport Australia Historic Group:</b>	Nc		
<b>Date of Issue of this Document:</b>	1 January 2024		



Refer to Motorsport Australia Manual of Motor Sport, Vehicle Eligibility, Historic Touring Cars, General Requirements & Nc Regulations for permitted modifications.

***Update Log***

1/1/2024	Inclusion of kerb and minimum racing weights

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

<b>Description:</b>	Uni body two door coupe
<b>Period of Manufacture:</b>	Import late 1967 – 1971 (circular tail lights) 1602 from July 1971 - 1973
<b>Manufacturer:</b>	BMW
<b>Chassis Number From:</b>	930 001 (1600-2) – April 1964 to April 1966 1500 001 (1602_0 March 1966 to October 1975
<b>Chassis Number location:</b>	RHS inner guard
<b>Material:</b>	Steel
<b>Comments</b>	Round/Circular tail light models only. Square tail light model not eligible.

### 1.2. FRONT SUSPENSION

<b>Description:</b>	Independent - upper & lower wishbones		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Telescopic	<b>Adjustable:</b>	Yes
<b>Anti-sway bar:</b>	Fitted	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	No	<b>Method:</b>	Caster, camber and toe
<b>Comments:</b>	Refer to Appendix A		

### 1.3. REAR SUSPENSION

<b>Description:</b>	Independent - semi-trailing arms		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Telescopic	<b>Adjustable:</b>	Yes
<b>Anti-sway bar:</b>	Fitted	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	Yes	<b>Method:</b>	Camber and toe
<b>Comments:</b>	Refer to Appendix A		

### 1.4. STEERING

<b>Type:</b>	Worm and Roller	<b>Make:</b>	BMW ZF
<b>Comments</b>	None		

### 1.5. BRAKES

	Front	Rear
<b>Type:</b>	Disc - solid	Drum
<b>Dimensions:</b>	240 mm x 9.45 mm	200 mm diameter x 46.50 mm
<b>Material of drum/disc:</b>	Cast Iron	Cast Iron
<b>No. cylinders/pots per wheel – 1600-2:</b>	Two	Two
<b>No. cylinders/pots per wheel - 1602:</b>	Four	Two
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper make:</b>	BMW ATE	
<b>Caliper type:</b>	Fixed	
<b>Material:</b>	Cast Iron	
<b>Master cylinder make:</b>	BMW ATE	
<b>Type:</b>	Tandem	
<b>Adjustable bias:</b>	No	
<b>Servo Fitted:</b>	Yes	
<b>Comments:</b>	None	

## SECTION 2 - ENGINE

### 2.1. ENGINE

<b>Make:</b>	BMW		
<b>Model:</b>	Type 118		
<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>	84 mm	<b>Max allowed:</b>	85.5 mm
<b>Stroke - original:</b>	71 mm	<b>Max allowed:</b>	71 mm
<b>Capacity - original:</b>	1573 cc	<b>Max allowed:</b>	1630 cc
<b>Identifying marks:</b>	Located on a flat edge of the engine block, just above where the starter motor mounts.		
<b>Cooling method:</b>	Liquid		
<b>Comments:</b>	None		

### 2.2. CYLINDER HEAD

<b>Make:</b>	BMW		
<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> SOHC	<b>Drive:</b> Chain
<b>Valve actuation:</b>	Rocker		
<b>Spark plugs/cylinder:</b>	One		
<b>Identifying marks:</b>	Number of nubs surrounding a two-digit year, all within a circle. Both the head type and casting date are cast into the left side of each head.		
<b>Comments:</b>	Type 121		

### 2.3. LUBRICATION

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

### 2.4. IGNITION SYSTEM

<b>Type:</b>	Points, distributor & coil		
<b>Make:</b>	Bosch		
<b>Comments</b>	Breakerless electronic ignition permitted		

### 2.5. FUEL SYSTEM

<b>Carburettor Make:</b>	Solex	<b>Model:</b>	40 PHH
<b>Carburettor Number:</b>	One (Ti has two)		
<b>Size:</b>	Various		
<b>Fuel injection Make:</b>	N/A	<b>Type:</b>	N/A
<b>Supercharged:</b>	No	<b>Type:</b>	N/A
<b>Comments:</b>	None		

### SECTION 3 - TRANSMISSION

#### 3.1. CLUTCH

Make:	BMW
Type:	Spring and Diaphragm
Diameter:	200 mm
No. of Plates:	One
Actuation:	Hydraulic and mechanical
Comments:	None

#### 3.2. TRANSMISSION

Type:	Synchromesh
Make:	Getrag – 232 (four speed) Getrag 235 (four and five speed)
Gearbox location:	Behind engine
No. forward speeds:	Four or five
Gearchange type and location:	H pattern floor mounted.
Case material:	Aluminium
Identifying marks:	N/A
Comments:	Model 245 not approved.

#### 3.3. FINAL DRIVE

Make:	BMW	Model:	232-235
Type:	Sprung unit		
Ratios:	Various		
Differential type:	Free/Open		
Comments:	None		

#### 3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	Three
Location:	Gearbox to final drive
Description:	Open tail shaft & half shafts
Comments:	None

#### 3.5. WHEELS & TYRES

Wheel type - Original:	Disc	Material - Original:	Steel
Wheel type - Allowed:	Alloy (period style)	Material - Allowed:	Alloy (period style)
Fixture method:	Nuts	No. studs:	Four
Wheel dia. & rim width	FRONT		REAR
Original:	4.5" x 13"		4.5" x 13"
Allowed	7" x 13"		7" x 13"
Tyre Section:			
Allowed:	Refer approved tyre list.		
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	None		

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

<b>Tank Location:</b>	In boot	<b>Capacity:</b>	46 litres
<b>Fuel pump, type:</b>	Mechanical	<b>Make:</b>	BMW
<b>Comments:</b>	None		

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	12	<b>Alternator fitted:</b>	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>	Four	<b>No. doors:</b>	Two
<b>Comments:</b>	None		

### 4.4. DIMENSIONS

<b>Track - Front:</b>	1320 mm	<b>Rear:</b>	1320 mm
<b>Wheelbase:</b>	2450 mm	<b>Overall length:</b>	4500 mm
<b>Approved Manufacturer's kerb weight:</b>	920 kg		
<b>Approved minimum racing weight:</b>	897 kg		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
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## ***Appendix A***

### ***Suspension***

#### ***Front***

Spring height adjustment permitted.

#### ***Rear***

Spring height adjustment permitted.