



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>	2002 & 2002 Ti
<b>Period of Original Manufacture:</b>	1968 – 1973		
<b>Motorsport Australia Historic Group:</b>	Nc		
<b>Date of Issue of this Document:</b>	6 Febraury 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
6/2/2024	Correction to include 14" wheels

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

<b>Description:</b>	Uni body two door coupe
<b>Period of Manufacture:</b>	1968 to 1973
<b>Manufacturer:</b>	BMW
<b>Chassis Number From:</b>	1600001
<b>Chassis Number location:</b>	RHS inner guard
<b>Material:</b>	Steel
<b>Comments</b>	Round/Circular tail light models only.

### 1.2. FRONT SUSPENSION

<b>Description:</b>	Independent – by McPherson strut		
<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 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>	No	<b>Method:</b>	Camber and toe
<b>Comments:</b>	Refer 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 10mm (2002) 256 mm x 13 mm (2002Ti)	230 mm diameter x 46.50 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>	BMW ATE	
<b>Caliper type:</b>	Floating	
<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>	2002		
<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>	89 mm	<b>Max allowed:</b>	90.5 mm
<b>Stroke - original:</b>	80 mm	<b>Max allowed:</b>	80 mm
<b>Capacity - original:</b>	1991 cc	<b>Max allowed:</b>	2058 cc
<b>Identifying marks:</b>	+XXXXXXX+ 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 "121" (to mid 1972), "E12" – mid 1972 to 1975), all within a circle. Both the head type and casting date are cast into the left side of each head.		
<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>	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>	40PDSI
<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**

<b>Make:</b>	Borg & Beck
<b>Type:</b>	Diaphragm
<b>Diameter:</b>	228 mm
<b>No. of Plates:</b>	One
<b>Actuation:</b>	Hydraulic
<b>Comments:</b>	None

**3.2. TRANSMISSION**

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

**3.3. FINAL DRIVE**

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

**3.4. TRANSMISSION SHAFTS (EXPOSED)**

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

**3.5. WHEELS & TYRES**

<b>Wheel type - Original:</b>	Disc	<b>Material - Original:</b>	Steel
<b>Wheel type - Allowed:</b>	Alloy (period style)	<b>Material - Allowed:</b>	Alloy (period style)
<b>Fixture method:</b>	Nuts	<b>No. studs:</b>	Four
<b>Wheel dia. &amp; rim width</b>	<b>FRONT</b>		<b>REAR</b>
<b>Original:</b>	5.5" x 13"		5.5" x 13"
<b>Allowed</b>	7" x 13" 7" x 14"		7" x 13" 7" x 14"
<b>Tyre Section:</b>			
<b>Allowed:</b>	Refer approved tyre list.		
<b>Aspect ratio - minimum:</b>	60% minimum aspect ratio.		
<b>Comments:</b>	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>	1330 mm	<b>Rear:</b>	1330 mm
<b>Wheelbase:</b>	2500 mm	<b>Overall length:</b>	4229 mm
<b>Approved Manufacturer's kerb weight:</b>	940 kg		
<b>Approved minimum racing weight:</b>	917 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.