



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.

Make of Car:	BMW	Model:	1600-2 & 1602
Period of Original Manufacture:	1600-2 - Import late 1967 – 1971 (circular tail lights) 1602 - from July 1971 - 1973		
Motorsport Australia Historic Group:	Nc		
Date of Issue of this Document:	1 January 2024		



Refer to The *Manual*, Historic Appendix, Vehicle Eligibility, General Requirements & Historic Touring Cars Group N Regulations for permitted modifications.

Update Log

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

SECTION 1 - CHASSIS

1.1. CHASSIS

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

1.2. FRONT SUSPENSION

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

1.3. REAR SUSPENSION

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

1.4. STEERING

Type:	Worm and Roller	Make:	BMW ZF
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc, solid	Drum
Dimensions – 1600 -2:	240 mm x 10 mm	200 mm diameter x 46.50 mm
Dimensions - 1602:	240 mm x 13 mm	200 mm diameter x 46.50 mm
Material of drum/disc:	Cast Iron	Cast Iron
No. cylinders/pots per wheel – 1600-2:	Two	Two
No. cylinders/pots per wheel - 1602:	Four	Two
Actuation:	Hydraulic	Hydraulic
Caliper make:	BMW ATE	
Caliper type:	Fixed	
Material:	Cast Iron	
Master cylinder make:	BMW ATE	
Type:	Tandem	
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:	None	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	BMW		
Model:	Type 118		
No. cylinders:	Four	Configuration:	In-line
Cylinder Block-material:	Cast Iron	Two/Four Stroke:	Four
Bore - Original:	84 mm	Max allowed:	85.5 mm
Stroke - original:	71 mm	Max allowed:	71 mm
Capacity - original:	1573 cc	Max allowed:	1630 cc
Identifying marks:	Located on a flat edge of the engine block, just above where the starter motor mounts.		
Cooling method:	Liquid		
Comments:	None		

2.2. CYLINDER HEAD

Make:	BMW		
No. of valves/cylinder:	Two	Inlet: One	Exhaust: One
No. of ports total:	Eight	Inlet: Four	Exhaust: Four
No. of camshafts:	One	Location: SOHC	Drive: Chain
Valve actuation:	Rocker		
Spark plugs/cylinder:	One		
Identifying marks:	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.		
Comments:	Type 121		

2.3. LUBRICATION

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

2.4. IGNITION SYSTEM

Type:	Points, distributor & coil		
Make:	Bosch		
Comments	Breakerless electronic ignition permitted		

2.5. FUEL SYSTEM

Carburettor Make:	Solex	Model:	40 PHH
Carburettor Number:	One (Ti has two)		
Size:	Various		
Fuel injection Make:	N/A	Type:	N/A
Supercharged:	No	Type:	N/A
Comments:	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

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

4.2. ELECTRICAL SYSTEM

Voltage:	12	Alternator fitted:	Alternator
Battery Location:	Engine bay		
Comments:	None		

4.3. BODYWORK

Type:	Coupe	Material:	Steel
No. of seats:	Four	No. doors:	Two
Comments:	None		

4.4. DIMENSIONS

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

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix A

Suspension

Front

Spring height adjustment permitted.

Rear

Spring height adjustment permitted.