

CAMS

5TH CATEGORY - HISTORIC RACING

GROUP Nc

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 CAMS Manual of Motor Sport.

Make of Car: B.M.W **Model:** 2002
2002 TI

Period of Original Manufacture: 1968 - 1973 (Circular Tail Lights)*

CAMS Historic Group: Nc

Date of Issue of this Document: August 1999

* Square T/Light model not eligible.



SECTION 1 - CHASSIS

1.1 CHASSIS FRAME

Description:	Unitary Construction	Period of Manufacture:
Manufacturer:	BMW	1/1968/1973
Chassis no. from:	1600.001 (1680.001 TI)	4/1972/1973 (TI)
Chassis no. location:	Inner Guard RHS	
Material:	Steel	
Comments:		

1.2 FRONT SUSPENSION

Description:	Independent – McPherson Strut	
Spring medium:	Coil	
Damper Type:	Oil or Gas - Insert	Adjustable: Yes
Anti-sway bar:	Fitted	Adjustable: No
Suspension adjustable:	No	Method: N/A
Comments:	Ride height, Spring rate , Bush material are free.	

1.3 REAR SUSPENSION

Description:	Independent – Trailing Arms	
Spring medium:	Coil	
Damper type:	Oil or Gas - Telescopic	Adjustable: Yes
Anti-sway bar:	Fitted	Adjustable: No
Suspension adjustable:	No	Method: N/A
Comments:	.Ride height, Spring rate , Bush material are free	

1.4 STEERING

Type	Worm & Roller	Make:	BMW/ZF
Comments:			

1.5 BRAKES

	Front	Rear
Type:	Disc	Drum
Dimensions:	240mm (256mm TI)	230mm
Material of drum/disc	Cast Iron	Cast Iron
No. cylinders/pots per wheel:	2	2
Actuation:	Hydraulic	Hydraulic
Caliper: Make, Material, Type:	BMW/ATE – C.Iron/Aluminium	
Master cylinder make:	BMW/ATE	Type Tandem
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:	Twin Master cylinders permitted. Servo may be rendered inoperative.	

SECTION 2 - ENGINE

2.1 ENGINE

Make:	B.M.W	Configuration:	In Line
Model:	2002	Four Stroke	
No. cylinders:	4	Max. allowed:	90.5mm
Cylinder Block-material:	Cast Iron	Max. allowed:	80 mm
Bore - Original:	89 mm	Max. allowed:	2057cc
Stroke - original:	80 mm		
Capacity - original:	1990 cc		
Cooling method:	Water Cooled		
Identifying marks:	Engine No. location - Crankcase Above Starter Motor		
Comments:			

2.2 CYLINDER HEAD

Make:	B.M.W				
No. of valves/cylinder-	2	Inlet:	1	Exhaust:	1
No. of ports total:	8	Inlet:	4	Exhaust:	4
No. of camshafts:	1	Location:	Head	Drive:	Chain
Valve actuation:	S.O.H.C with Rockers				
Spark plugs/cylinder:	1				
Identifying marks:					
Comments:					

2.3 LUBRICATION

Method:	Wet Sump	Oil tank location:	N/A
Dry sump pump type:	N/A	Location:	N/A
Oil cooler standard:	No	Location:	N/A
Comments:	Oil cooler allowed		

2.4 IGNITION

Type:	Distributor and Coil
Make:	Bosch
Comments:	

2.5 FUEL FEED

Carburettor: Make:	Solex	Model:	40 PDSI	No:	1 (2 TI)	Size:	40
Fuel injection Make:	N/A	Type:		Type:	N/A		
Supercharged:	No	Type:		Type:	N/A		
Make:	N/A						
Comments:	Carburettor/s may be replaced with other make/types available in period.						

SECTION 3 - TRANSMISSION

3.1 CLUTCH

Make: B.M.W **Type:** Diaphragm **Diameter:** 228.0 mm
No. of Plates: 1
Actuation: Hydraulic
Comments:

3.2 TRANSMISSION

Type: Manual
Make: B.M.W **Model:** 232 - 235
No. forward speeds: 4 and 5
Gearchange type and location: Floor Change Behind Engine
Case material: Aluminium Identifying marks:
Comments: Ratios Free

3.3 FINAL DRIVE

Make: B.M.W **Model:** Hypoid Bevel
Wheel drive method: Individual drive shafts from differential to rear wheels
Ratios: Various
Differential: Free **Type:**
Comments: Limited slip differential permitted

3.4 TRANSMISSION SHAFTS (EXPOSED)

Number: 3 **Location:** Gearbox to Differential
Differential to Final Drive
Description: 2 Piece tailshaft with Universal Joints and Couplings
Individual drive shafts with universal joints
Comments:

3.5 WHEELS & TYRES

Wheel type: Original:	Pressed Steel	Material: Original:	Steel
Allowed:		Allowed:	Period Style Alloy
Fixture method:	Nuts	No. studs:	4
	FRONT		REAR
Wheel dia. & rim width			
Original:	13", 14" x 5.5		13", 14" x 5.5
Allowed:	13", 14" x 7"		13", 14" x 7"
Tyre section:			
Original:	165 x 13		165 x 13
Allowed:	215/225 x 13/14		215/225 x 13/14
Aspect ratio - minimum:	60		60
Comments:	Steel, aluminium and magnesium wheels of period style allowed		

