

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:** 1600 - 1602

Period of Original Manufacture: Import Late 1967 - 1971 (1600) (circular tail lights)
1602 from July 1971 - 73

CAMS Historic Group: Nc

Date of Issue of this Document: August 1999

* Square Tail Light model Not Eligible



SECTION 1 - CHASSIS

1.1 CHASSIS FRAME

Description:	Unit Body Shell	Period of Manufacture:
Manufacturer:	B.M.W	1964 - 1973
Chassis no. from:	930 001 (1600)	4/1964 - 4/1966
	1500 001 (1602)	3/1966 - 10/1975
Chassis no. location:	Inner Guard RHS	
Material:	Steel	
Comments:		

1.2 FRONT SUSPENSION

Description:	Mc Pherson Strut	
Spring medium:	Coil	
Damper Type:	Oil or Gas Insert	Adjustable: Yes
Anti-sway bar:	Yes	Adjustable: No
Suspension adjustable:	No	Method: N/A
Comments:	Ride height, spring rate and bush material are free	

1.3 REAR SUSPENSION

Description:	I.R.S Trailing Arm	
Spring medium:	Coil	
Damper type:	Oil or Gas Tubular	Adjustable: Yes
Anti-sway bar:	Yes	Adjustable: No
Suspension adjustable:	No	Method: N/A
Comments:	Ride height, spring rate and bush material are free	

1.4 STEERING

Type:	Worm & Roller	Make:	B.M.W ZF
Comments:			

1.5 BRAKES

	Front	Rear
Type:	Disc	Drum
Dimensions:	(1600) 268 mm (1602) 240 mm	(1600) 250 mm (1602) 200 mm
Material of drum/disc	Cast Iron	Cast iron
No. cylinders/pots per wheel:	(1600) 2 (1602) 4	2
Actuation:	Hydraulic	Hydraulic
Caliper: Make, Material, Type:	B.M.W.ATE	Cast Iron/Aluminium
Master cylinder make:	B.M.W.ATE	Type: Tandem
Adjustable bias	No	
Servo Fitted	Yes	
Comments:	Twin master cylinder allowed. Servo may be rendered inoperative or removed.	

SECTION 2 - ENGINE

2.1 ENGINE

Make:	B.M.W		
Model:	1600		
No. cylinders:	4	Configuration:	In Line
Cylinder Block-material:	Cast Iron	Four Stroke	
Bore - Original:	84 mm	Max. allowed:	85.5 o/s
Stroke - original:	71 mm	Max. allowed:	71 mm
Capacity - original:	1573 cc	Max. allowed:	1630 cc
Cooling method:	Water cooled		
Identifying marks:	BMW Engine No. 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:	38 PDSJ	No:		Size:	38mm
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:** Spring & Diaphragm **Diameter:** 200.0 mm
No. of Plates: 1
Actuation: Hydraulic & Mechanical
Comments: Clutch is free

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: Rear
Ratios: Various
Differential: Free
Comments: Limited Slip differential permitted

3.4 TRANSMISSION SHAFTS (EXPOSED)

Number: 3 **Location:** Gearbox to Differential. Differential to rear wheels
Description: 2 Piece - Tailshaft with Universal Joints and Couplings. Individual driveshafts with Universal Joints.
Comments:

3.5 WHEELS & TYRES

Wheel type:	Original: Pressed Steel	Material: Original: Steel
	Allowed:	Allowed: Period Style Alloy
Fixture method:	Bolt On	No. studs: 4 Studs
	FRONT	REAR
Wheel dia. & rim width		
	Original: 4.5" - 5.0" x 13	4.5" - 5.0" x 13
	Allowed: 7" x 13	7" x 13
Tyre section:		
	Original: 165 x 13	165 x 13
	Allowed: 215/225 x 13	215/225 x 13
Aspect ratio - minimum:	60	60
Comments:	Steel, aluminium and magnesium wheels of period style allowed	

SECTION 4 - GENERAL

4.1 FUEL SYSTEM

Tank Location:	Rear in Boot	Capacity:	46 Litres
Fuel pump, type and location:	Mechanical	Make:	B.M.W
Comments:	Electric pump/s permitted.		

4.2 ELECTRICAL SYSTEM

Voltage:	12V	Alternator fitted:	Yes
Battery Location:	Engine Bay		
Comments:			

4.3 BODYWORK

Type:	2 Door Coupe	Material:	Steel
No. of seats:	4	No. doors:	2
Comments:			

4.4 DIMENSIONS

Track - Front:	1320 mm	Rear:	1320 mm
Wheelbase:	2540 mm	Overall length:	4500 mm
Dry weight:	912 kg		
Comments:			

4.5 SAFETY EQUIPMENT

- Fire extinguisher required
- Seat belt required
- Rollbar required
- Electrical cut off switch required
- Safety fuel tank recommended

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