



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 a 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:** Morris **Model:** Cooper "S"  
**Period of Original Manufacture:** 1965 – 72  
**CAMS Historic Group:** Nc  
**Date of issue of this document:** September 2015



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

## **SECTION 1 - CHASSIS**

### **1.1 CHASSIS FRAME**

**Description:** Uni – body  
**Period of Manufacture:** Jan 1965 to end of 1971  
**Manufacturer:** British Motor Corporation  
**Chassis no. from:** YKG2S2\*\*\*\* or YKG2S4\*\*\*\*  
**Chassis no. location:** Various  
**Material:** Steel

### **1.2 FRONT SUSPENSION**

**Description:** Independent, Upper & lower arms with lower castor bar.  
**Spring Medium:** Rubber cone or Hydrolastic  
**Damper Type:** Telescopic **Adjustable:** No  
**Anti-sway bar:** Fitted **Adjustable:** No  
**Suspension adjustable:** No  
**Comments:**

### **1.3 REAR SUSPENSION**

**Description:** Independent, with trailing arms  
**Spring medium:** Rubber cone or Hydrolastic  
**Damper type:** Telescopic **Adjustable:** No  
**Anti-sway bar:** Fitted **Adjustable:** No  
**Suspension adjustable:** No

### **1.4 STEERING**

**Type:** Rack & pinion **Make:** BMC

### **1.5 BRAKES**

	<b>Front</b>	<b>Rear</b>
<b>Type:</b>	Disc, solid	Drum, single leading shoe
<b>Dimensions:</b>	190 x 9.5 mm	178 x 31.75 mm
<b>Material:</b>	Cast iron	Cast iron
<b>No. cylinders/pots per wheel:</b>	Two	One
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper Make:</b>	Lockheed	
<b>Caliper Type:</b>	Fixed	
<b>Caliper Material:</b>	Cast iron	
<b>Master cylinder make:</b>	Lockheed	<b>Type:</b> Single
<b>Adjustable bias:</b>	No	
<b>Servo Fitted:</b>	Yes	



### **3.3 FINAL DRIVE**

**Make:** BMC **Model:** Cooper "S"  
**Type:** Combined as transaxle  
**Wheel drive method:** Front  
**Ratios:** Various  
**Differential type:** Open / free

### **3.4 TRANSMISSION SHAFTS (EXPOSED)**

**Number:** Two  
**Description:** Halfshaft with Hardy-Spicer or Dunlop Universal Joints, and C/V Joints.

### **3.5 WHEELS & TYRES**

<b>Wheel type - Original:</b>	Disc	<b>Material - Original:</b>	Steel
<b>Allowed:</b>	Period cast	<b>Allowed:</b>	Alloy
<b>Fixture method:</b>	Studs	<b>No. studs:</b>	Four
<b>Wheel dia. &amp; rim width:</b>	<b>FRONT</b>	<b>REAR</b>	
<b>Original:</b>	10 x 4.5 inch	10 x 4.5 inch	
<b>Allowed:</b>	10 x 6.0 inch	10 x 6.0 inch	
<b>Tyres original:</b>	450 – 10	450 – 10	
<b>Tyres allowed:</b>	60 % minimum aspect ratio, refer approved tyre list.		

## **SECTION 4 - GENERAL**

### **4.1 FUEL SYSTEM**

**Tank Location:** Boot, Qrt panels **Capacity:** 25 litres x 2  
**Fuel pump type and location:** Electric, rear sub frame **Make:** SU AUF 201  
**Comments:**

### **4.2 ELECTRICAL SYSTEM**

**Voltage:** 12 **Generator:** Fitted  
**Battery Location:** Boot

### **4.3 BODYWORK**

**Type:** Closed touring **Material:** Steel & aluminium  
**No. of seats:** Four **No. doors:** Two

#### **Comments:**

When viewed from above, the maximum width between the outside edge of the flares shall not exceed Front 1475 mm, Back 1435 mm.

#### Speedo aperture opening modifications

The firewall may be modified to allow for the insertion of a carburettor box. The box to be adequate sealed. The dimensions of the aperture shall not exceed 175 mm high and 215 mm wide.

The instrument binnacle may be moved to accommodate the carburettor box. Not to protrude beyond a line between the front face of the parcel shelf and window surround base.

Part Numbers for Flares, Perspex, and Aluminium Panels are as follows: Aluminium Doors : # C/A JJ 3379, Aluminium Boot/Bonnet: # C/A JJ 3380, Flare Kit: # C/A JJ 3316, Flare Kit: # C/A JJ 3353, Perspex Window: # C/A JJ 3363.

A non-opening perspex window kit is permissible, subject to the use of appropriate window seals.

#### **4.4 DIMENSIONS**

<b>Track - Front:</b>	1233 mm	<b>Rear:</b>	1202 mm
<b>Wheelbase:</b>	2036 mm	<b>Overall length:</b>	3054 mm
<b>Dry weight:</b>	600 kg		

#### **4.5 SAFETY EQUIPMENT**

##### ***Refer applicable Group Regulations***

##### **Historic Group Nc – Mini Cooper Mk1 and MkII – Additional Notes**

These notes are intended to assist Eligibility Officers in assessing candidate cars for classification under Group Nc regulations. .

The Cooper 'S' as a model continued to be subject to technical development over a number of years – FIA Group 2 Variants were being documented as late as 1970.

**September 1965 :** Cooper S Mark 1 in production in Australia with two fuel tanks giving 11 gallons ( 50 litres ) capacity, laminated windscreen and seat belts of the approved type for racing with Three – point fixing. It in production until April 1969. Engine was 1.275 litre with twin SU's

**October 1965 :** Australian cars were fitted with wind up windows, **1967 :** Cooper S Mark II introduced in UK, with oval S badge and bolt on wheel arch flares. **May 1969:** Mark 11 introduced in Australia.

**1970 :** UK Mk 3 cars were fitted with an updated grille. **August 1971 :** Body design updated and the new model sold as a clubman . Cooper S was replaced by Clubman GT 1275 .

Cars with wind up windows should represent Australian cars and have a heater, twin tanks and short number plate indentation.

Cars with sliding windows should represent UK cars with optional heater, optional twin tanks and long number plate indentation.

The use of Aluminium door skins is permitted only on sliding window types.

Aluminium bonnet and boot options from the era may be used only in their complete form.

Most Series Production cars were Aust. built Mk.1 & Mk 2, with Hydro.suspension, wind up windows, heater, and 2 tanks. Improved Production cars were usually English spec. ie: Dry suspension, sliding windows, optional heater, optional tanks and long number plate indentation.

An Austin Cooper "S" is permissible in Nc form with the following provisions: Single fuel tank, English Mk. II or Mk III style grille (Same as Morris, except for wavy slats), Clubman style tail lights. Plus all badge work, chrome work, interior cosmetics are applicable to that model. All other specifications shall apply as per Morris Cooper 'S'.