



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:** Porsche **Model:** 911 S Rally

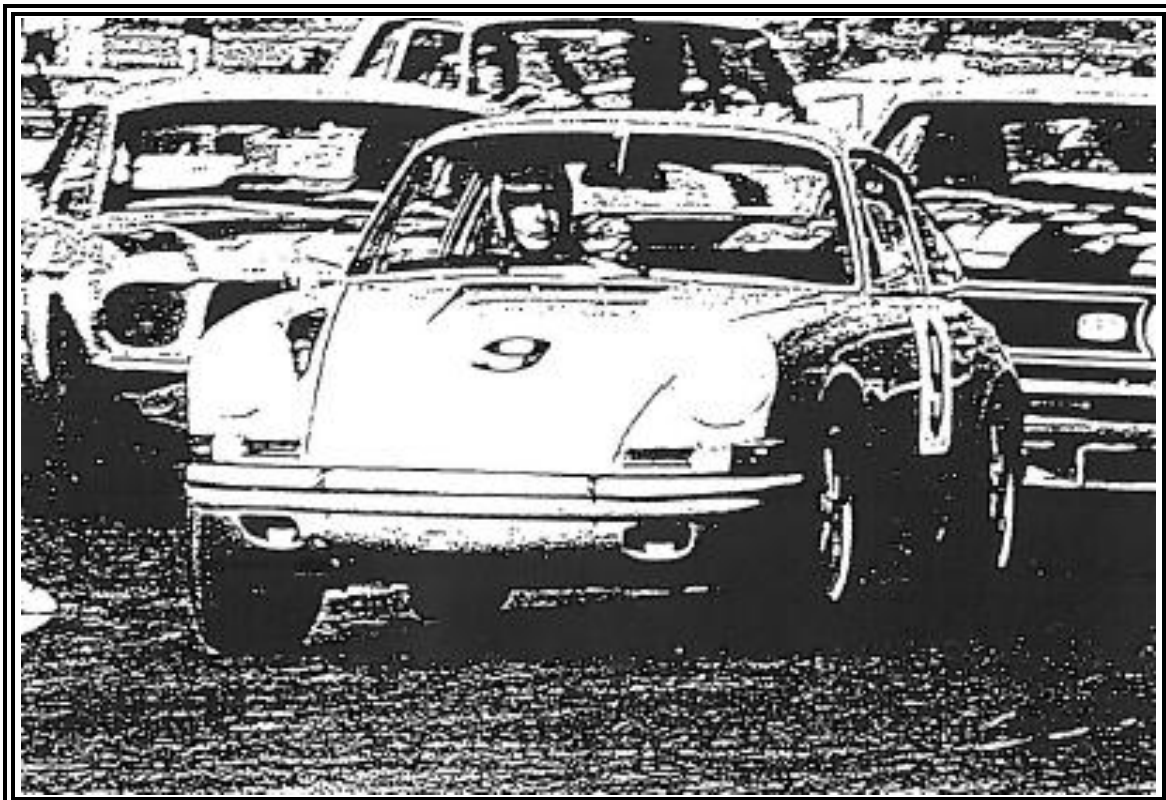
**Period of Original Manufacture:** 1968

**General Comments :** The Porsche raced in Touring car events in Australia in 1968/69 was based on the 1968 911T model as this was the only production six cylinder model manufactured in sufficient numbers to qualify for FIA Touring recognition. The 911 S Rally version incorporated certain variations in engine, transmission and brakes. The basic body shell was identical in T, E and S models.

**CAMS Historic Group:** Nc

**Date of Issue of this Document:** January 1999

**Updated:** 25 November 2011



## SECTION 1 - CHASSIS

### 1.1 CHASSIS FRAME

**Description:** Unitary Construction **Period of Manufacture:** 1968  
**Manufacturer:** Porsche  
**Chassis no. from:** 11830001 onwards  
**Chassis no. location:** Front Luggage Compartment  
**Material:** Steel  
**Comments:**

### 1.2 FRONT SUSPENSION

**Description:** Independent by McPherson Strut  
**Spring medium:** Longitudinal Torsion Bar  
**Damper Type:** Telescopic Hydraulic **Adjustable:** Yes  
**Anti-sway bar:** Yes **Adjustable:** No  
**Suspension adjustable:** Yes  
**Comments:** Front suspension fully adjustable for camber, caster, toe-in and ride height.

### 1.3 REAR SUSPENSION

**Description:** Independent by Trailing Central Arms  
**Spring medium:** Transverse Torsion Bars (1 per side)  
**Damper type:** Telescopic Hydraulic **Adjustable:** Yes  
**Anti-sway bar:** Yes **Adjustable:** No  
**Suspension adjustable:** Yes  
**Comments:** Rear suspension fully adjustable for camber, toe-in and ride height

### 1.4 STEERING

**Type:** Rack & Pinion **Make:** Porsche  
**Comments:**

### 1.5 BRAKES

	Front	Rear
<b>Type:</b>	Ventilated Disc	Ventilated Disc
<b>Dimensions:</b>	282 mm	290 mm
<b>Material of drum/disc</b>	Cast Iron	Cast Iron
<b>No. cylinders/pots per wheel:</b>	2	2
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper: Make, Material, Type:</b>	Ate Cast Iron	Ate Cast Iron
<b>Master cylinder make:</b>	Ate	<b>Type:</b> Single cylinder
<b>Adjustable bias</b>	No	
<b>Servo Fitted</b>	No	

**Comments:** Adjustable bias and other modifications in accordance with Group Nc regulations are permitted.

## SECTION 2 - ENGINE

### 2.1 ENGINE

**Make:** Porsche  
**Model:** 901/22  
**No. cylinders:** 6  
**Cylinder Block-material:** Aluminium  
**Bore - Original:** 80 mm  
**Stroke - original:** 66 mm  
**Capacity - original:** 1991 cc  
**Cooling method:** Air/Oil  
**Identifying marks:**  
**Comments:**

**Configuration:** Horizontal Opposed  
**Four Stroke**  
**Max. allowed:** 80 mm  
**Max. allowed:** 66 mm  
**Max. allowed:** 2000 cc

### 2.2 CYLINDER HEAD

**Make:** Porsche  
**No. of valves/cylinder-**  
**No. of ports total:**  
**No. of camshafts:** 2  
**Valve actuation:**  
**Spark plugs/cylinder:** 2  
**Identifying marks:**  
**Comments:** Single overhead cam on each bank of cylinders operating valves by Rocker Arms.

**Inlet:** 1  
**Inlet:** 6  
**Location:** OHC  
**Rocker Arms**

**Exhaust:** 1  
**Exhaust:** 6  
**Drive:** Chain

### 2.3 LUBRICATION

**Method:** Dry Sump  
**Dry sump pump type:** Gear Type  
**Oil cooler standard:** Yes

**Oil tank location:** Right Rear Fender  
**Location:** Inside Crankcase  
**Location:** Engine & Front Right Fender

**Comments:**

### 2.4 IGNITION

**Type:** Dual Ignition Distributor and Coil  
**Make:** Bosch  
**Comments:**

### 2.5 FUEL FEED

**Carburettor: Make:** Weber  
**Fuel injection Make:** N/A  
**Supercharged:** No

**Model:** 40 IDA 3  
**No:** 2  
**Size:** 40mm

**Comments:**

## SECTION 3 - TRANSMISSION

### 3.1 CLUTCH

**Make:** Fichtal & Sachs      **Type:** M215K Diaphragm  
**No. of Plates:** One  
**Actuation:** Cable  
**Comments:**

### 3.2 TRANSMISSION

**Type:** Manual Transaxle  
**Make:** Porsche      **Model:** 901  
**No. forward speeds:** 5      **Gearbox location:** Front of Rear Axle  
**Gearchange type and location:** Manual, Floor mounted, central  
**Case material:** Aluminium      **Identifying marks:**  
**Comments:** The model 915 transaxle (magnesium casing) as introduced with the 2.4 litre version of the 911 (which model is not eligible for Group Nc) is now eligible for use in this model.

### 3.3 FINAL DRIVE

**Make:** Porsche      **Model:** 901  
**Wheel drive method:** Spiral Bevel C/W and Pinion to Rear Wheels  
**Ratios:**  
**Differential:** ZF Limited slip      **Type:** Sliding Pawl Type  
**Comments:**

### 3.4 TRANSMISSION SHAFTS (EXPOSED)

**Number:** 2      **Location:** To Rear Wheels  
**Description:** Each shaft fitted with Nadella u/j's (inboard) and Hookes u/j's (outboard) accommodating change of axle length  
**Comments:**

### 3.5 WHEELS & TYRES

<b>Wheel type:</b>	<b>Original:</b> Forged	<b>Material:</b>	<b>Original:</b> Alloy
	<b>Allowed:</b>		<b>Allowed:</b>
<b>Fixture method:</b>	Studs	<b>No. studs:</b>	5 per wheel
	<b>FRONT</b>		<b>REAR</b>
<b>Wheel dia. &amp; rim width</b>			
	<b>Original:</b> 6" x 15"		6" x 15"
	<b>Allowed</b> 7" x 15"		7" x 15"
<b>Tyre section:</b>			
	<b>Original:</b>		
	<b>Allowed:</b>		
<b>Aspect ratio - minimum:</b>	60%		
<b>Comments:</b>	All four road wheels used required to be "identically similar". Wheel/tyre combination must lie within the periphery of body plan.		

## **SECTION 4 - GENERAL**

### **4.1 FUEL SYSTEM**

**Tank Location:** Front Luggage Compartment **Capacity:** 62 Litres  
**Fuel pump, type and location:** Electric, Dual Front Luggage Compartment **Make:** Bendix or Hardi

**Comments:**

### **4.2 ELECTRICAL SYSTEM**

**Voltage:** 12 **Alternator fitted**  
**Battery Location:** Front Luggage Compartment  
**Comments:**

### **4.3 BODYWORK**

**Type:** 2 Door Coupe **Material:** Steel  
**No. of seats:** 2 x 2 **No. doors:** 2

**Comments:** Total body - Standard Production Steel.  
All glass was standard production, with standard window winders  
Alternative factory supplied seats (Recaro) used in "simplified" interior model are acceptable.

### **4.4 DIMENSIONS**

**Track - Front:** 1370 mm **Rear:** 1370 mm  
**Wheelbase:** 2211 mm **Overall length:** 4163 mm  
**Dry weight:** 960 kg

**Comments:** Maximum permitted track increase under Group Nc regulations is 50mm.

### **4.5 SAFETY EQUIPMENT**

**Fire extinguisher required**  
**Seat belt required**  
**Rollbar required**  
**Electrical cut off switch required**  
**Safety fuel tank optional**