

# 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: Valiant

Model: VG/VH Pacer 245  
265

Period of Original Manufacture: 1968 - 1971

CAMS Historic Group: Nc

Date of Issue of this Document: September 1999



## SECTION 1 - CHASSIS

### 1.1 CHASSIS FRAME

<b>Description:</b>	Unitary Construction	<b>Period of Manufacture:</b>
<b>Manufacturer:</b>	Chrysler Australia	1968 - 1971
<b>Chassis no. from:</b>		
<b>Chassis no. location:</b>	RH Fender - under bonnet	
<b>Material:</b>	Steel	
<b>Comments:</b>		

### 1.2 FRONT SUSPENSION

<b>Description:</b>	Independent - non parallel Control Arms and Torsion Bars	
<b>Spring medium:</b>	Torsion Bar	
<b>Damper Type:</b>	Telescopic	<b>Adjustable:</b> Optional
<b>Anti-sway bar:</b>	Yes	<b>Adjustable:</b> Optional
<b>Suspension adjustable:</b>	Ride height adjustable	<b>Method:</b> Torsion Bar tension
<b>Comments:</b>		

### 1.3 REAR SUSPENSION

<b>Description:</b>	Live axle	
<b>Spring medium:</b>	Semi elliptic leaf	
<b>Damper type:</b>	Telescopic	<b>Adjustable:</b> Optional
<b>Anti-sway bar:</b>	Optional	<b>Adjustable:</b> Optional
<b>Suspension adjustable:</b>	No	<b>Method:</b>
<b>Comments:</b>		

### 1.4 STEERING

<b>Type:</b>	Recirculating ball	<b>Make:</b> Chrysler
<b>Comments:</b>		

### 1.5 BRAKES

<b>Type:</b>	<b>Front</b>	<b>Rear</b>
<b>Dimensions:</b>	Disc	Drum
<b>Material of drum/disc:</b>	280mm	230mm
<b>No. cylinders/pots per wheel:</b>	Cast Iron	Cast iron
<b>Actuation:</b>	2	2
<b>Caliper: Make, Material, Type:</b>	Hydraulic	Hydraulic
<b>Master cylinder make:</b> Girlock	Girlock	
<b>Adjustable bias</b>	<b>Type:</b>	Tandem
	Yes - If twin circuit master cylinder fitted	
<b>Servo Fitted</b>	Yes	
<b>Comments:</b>		

## SECTION 2 - ENGINE

### 2.1 ENGINE

**Make:** Chrysler  
**Model:** Hemi 245  
**No. cylinders:** 6  
**Cylinder Block-material:** Cast Iron  
**Bore - Original:** 95.5 (245) 99.3 (265)  
**Stroke - original:** 93.47(245) 93.47 (265)  
**Capacity - original:** 4015 (245) 4340 (265)  
**Cooling method:** Water  
**Identifying marks:**  
**COMMENTS:**

**Configuration:** In line  
**Four Stroke**  
**Max. allowed:** 97.0 (245) 100.8 (265)  
**Max. allowed:** 93.47 (245) 93.47 (265)  
**Max. allowed:** 4142 (245) 4474 (265)

### 2.2 CYLINDER HEAD

**Make:** Chrysler  
**No. of valves/cylinder-**  
**No. of ports total:** 12  
**No. of camshafts:** 1  
**Valve actuation:**  
**Spark plugs/cylinder:** 1  
**Identifying marks:**  
**COMMENTS:**

Inlet: 1  
Exhaust: 1  
Inlet: 6  
Exhaust: 6  
Location: Block  
Drive: Chain  
Pushrod

### 2.3 LUBRICATION

**Method:** Wet sump  
**Dry sump pump type:** N/A  
**Oil cooler standard:** NO  
**COMMENTS:** Oil cooler permitted

**Oil tank location:** N/A  
**Location:** N/A  
**Location:** N/A

### 2.4 IGNITION SYSTEM

**Type:** Coil and Distributor  
**Make:** Optional  
**COMMENTS:** Carburettor/s may be replaced with other make/types available in period.

### 2.5 FUEL SYSTEM

**Carburettor: Make:**  
**Model:** Two barrel D/draught  
**Size:**  
**Model:**  
**Size:**  
**Fuel injection Make:** N/A  
**Type:**  
**Supercharged:** N/A  
**Type:**  
**COMMENTS:**

## SECTION 3 - TRANSMISSION

### 3.1 CLUTCH

**Make:** Type: Diaphragm Diameter:  
**No. of Plates:**  
**Actuation:** Mechanical  
**Comments:**

### 3.2 TRANSMISSION

**Type:**  
**Make:** Borg Warner **Model:** 3 Speed  
**No. forward speeds:** 3 **Gearbox Location:** Behind engine  
**Gearchange type and location:** Central Location - H Pattern  
**Case material:** Steel & aluminium **Identifying marks:**  
**Comments:**

### 3.3 FINAL DRIVE

**Make:** Borg Warner **Type:** Hypoid  
**Wheel drive method:** Rear  
**Ratios:** Various  
**Differential:** Free  
**Comments:** Limited slip differential permitted Ratios free

### 3.4 TRANSMISSION SHAFTS (EXPOSED)

**Number:** 1 **Location:** Gearbox to final drive  
**Description:** Tubular tailshaft with universal joints  
**Comments:**

### 3.5 WHEELS & TYRES

<b>Wheel type:</b>	<b>Original:</b> Steel "Sports Style"	<b>Material: Original:</b> Steel
	<b>Allowed:</b> Alloy	<b>Allowed:</b> Period alloy wheels permitted
<b>Fixture method:</b>		<b>No. studs:</b>
	<b>FRONT</b>	<b>REAR</b>
<b>Wheel dia. &amp; rim width</b>		
	<b>Original:</b> 5.5x14	<b>5.5x14</b>
	<b>Allowed:</b> 8x14	<b>8x14</b>
<b>Tyre section:</b>		
	<b>Original:</b> ER70Hx14	<b>ER70Hx14</b>
	<b>Allowed:</b> 245x14	<b>245x14</b>
<b>Aspect ratio - minimum:</b>	60%	60%
<b>Comments:</b>		

## SECTION 4 - GENERAL

### 4.1 FUEL SYSTEM

Tank Location: Under boot floor Capacity:  
Fuel pump, type and location: Make:  
Comments:

### 4.2 ELECTRICAL SYSTEM

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

### 4.3 BODYWORK

Type: Two or Four Door Material: Steel  
Sedan  
No. of seats: 5 No. doors: 2 or 4  
Comments:

### 4.4 DIMENSIONS

Track - Front: 1480 Rear: 1430 cm  
Wheelbase: 2820 Overall length: 4890 cm  
Dry weight: 1400 kg  
Comments:

### 4.5 SAFETY EQUIPMENT

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