

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

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

1.2 FRONT SUSPENSION

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

1.3 REAR SUSPENSION

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

1.4 STEERING

Type:	Recirculating ball	Make: Chrysler
Comments:		

1.5 BRAKES

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

SECTION 2 - ENGINE

2.1 ENGINE

Make: Chrysler
Model: Hemi 245
No. cylinders: 6 **Configuration:** In line
Cylinder Block-material: Cast Iron **Four Stroke**
Bore - Original: 95.5 (245) 99.3 (265) **Max. allowed:** 97.0 (245) 100.8 (265)
Stroke - original: 93.47(245) 93.47 (265) **Max. allowed:** 93.47 (245) 93.47 (265)
Capacity - original: 4015 (245) 4340 (265) **Max. allowed:** 4142 (245) 4474 (265)
Cooling method: Water
Identifying marks:
COMMENTS:

2.2 CYLINDER HEAD

Make: Chrysler
No. of valves/cylinder- Inlet: 1 Exhaust: 1
No. of ports total: 12 Inlet: 6 Exhaust: 6
No. of camshafts: 1 Location: Block Drive: Chain
Valve actuation: Pushrod
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 permitted

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: **Size:**
Model :
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

Wheel type: **Original:** Steel "Sports Style" **Material: Original:** Steel
Allowed: Alloy **Allowed:** Period alloy wheels permitted

Fixture method:

No. studs:

	FRONT	REAR
Wheel dia. & rim width		
Original:	5.5x14	5.5x14
Allowed:	8x14	8x14
Tyre section:		
Original:	ER70Hx14	ER70Hx14
Allowed:	245x14	245x14
Aspect ratio - minimum:	60%	60%
Comments:		

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