

# CAMS

5TH CATEGORY - HISTORIC RACING

**GROUP Nc**

APPROVED VEHICLE SPECIFICATION

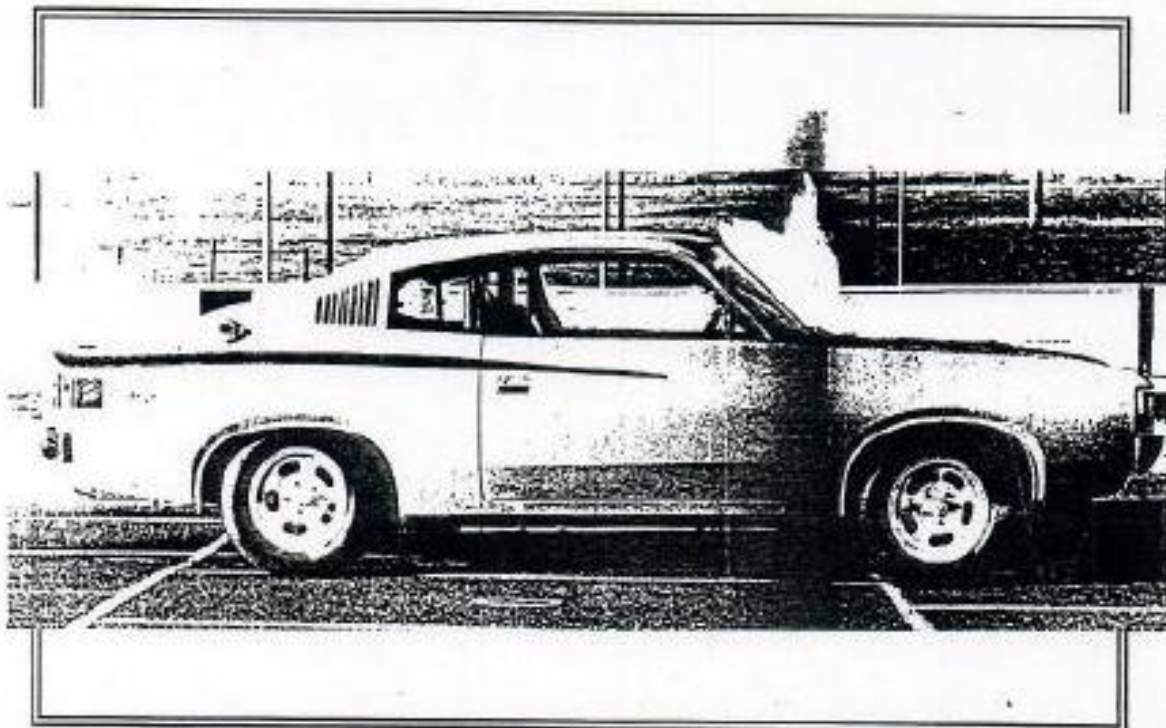
This form details the approved specifications of individual vehicle models in the 5th Category Historic car group. To be issued with an Historic Log Book, cars need to comply with these specifications, the physical appearance shown in the illustrations and the general historic rules as detailed in the current CAMS Manual of Motor Sport.

Make of Car: Valiant Charger Model: RT E38

Period of Original Manufacture: 1971

CAMS Historic Group: Nc

Date of Issue of this Document: July 1997



## SECTION 1 - CHASSIS

### 1.1 CHASSIS FRAME

**Description:** Unitary  
**Manufacturer:** Chrysler Australia  
**Chassis no. from:** D364C ---  
**Chassis no. location:** Firewall RHS  
**Material:** Steel  
**Comments:**

**Period of Manufacture:** 6/72 - 3/73

### 1.2 FRONT SUSPENSION

**Description:** Independent Torsion Bar  
**Spring medium:** Torsion Bar  
**Damper Type:** Telescopic  
**Anti-sway bar:** No  
**Suspension adjustable:** No  
**Comments:**

**Adjustable:** No  
**Adjustable:** No  
**Method:**

### 1.3 REAR SUSPENSION

**Description:** Live Axle  
**Spring medium:** Semi Elliptic Leaf  
**Damper type:** Telescopic  
**Anti-sway bar:** No  
**Suspension adjustable:** No  
**Comments:**

**Adjustable:** No  
**Adjustable:** No  
**Method:**

### 1.4 STEERING

**Type:** Recirculating Ball  
**Comments:** 16.1 with Special Column A87 Option

**Make:**

### 1.5 BRAKES

Type:	Front Disc	Rear Drum
<b>Dimensions:</b>	11 Inch	9 inch (Finned)
<b>Material of drum/disc</b>		
<b>No. cylinders/pots per wheel:</b>	2	1
<b>Actuation:</b>		
<b>Caliper; Make, Material, Type:</b>		
<b>Master cylinder:</b>	Type: Single	
<b>Adjustable bias</b>	No	
<b>Servo Fitted</b>	Yes	
<b>Comments:</b>		

## SECTION 2 - ENGINE

### 2.1 ENGINE

<b>Make:</b>	Chrysler	<b>Configuration:</b>	In Line
<b>Model:</b>	Hemi	<b>Four Stroke</b>	
<b>No. cylinders</b>	6	<b>Max. allowed:</b>	100.6 mm
<b>Cylinder Block-material:</b>	Cast Iron	<b>Max. allowed:</b>	93.47 mm
<b>Bore - Original:</b>	99.31 mm	<b>Max. allowed:</b>	
<b>Stroke - original:</b>	93.47 mm		
<b>Capacity - original:</b>	4340 cc		
<b>Cooling method:</b>	Water		
<b>Identifying marks:</b>	D265		
<b>Comments:</b>			

### 2.2 CYLINDER HEAD

<b>Make:</b>	Chrysler	<b>Exhaust:</b>	1
<b>No. of valves/cylinders:</b>	Inlet: 1	<b>Exhaust:</b>	6
<b>No. of ports total:</b> 12	Inlet: 6	<b>Drive:</b>	Chain
<b>No. of camshafts:</b> 1	<b>Location:</b> Block		
<b>Valve actuation:</b>	Pushrod		
<b>Spark plug/per cylinder:</b>	1		
<b>Identifying marks:</b>			
<b>Comments:</b>			

### 2.3 LUBRICATION

<b>Method:</b> Wet Sump	<b>Oil tank location:</b>	N/A
<b>Dry sump pump type:</b>	<b>Location:</b>	N/A
<b>Oil cooler standard:</b> No	<b>Location:</b>	N/A
<b>Comments:</b>		

### 2.4 IGNITION

<b>Type:</b>	Distributor & Coil
<b>Make:</b>	
<b>Comments:</b>	

### 2.5 FUEL FEED

<b>Carburettor: Make:</b>	Weber	<b>Model:</b>	DCOE	<b>No:</b> 3	<b>Size:</b> 45
<b>Fuel injection Make:</b>	N/A	<b>Type:</b>			
<b>Supercharger:</b>	No	<b>Type:</b>			
<b>Make:</b>					
<b>Comments:</b>					

## SECTION 3 - TRANSMISSION

### 3.1 CLUTCH

**Make:** Borg & Beck    **Type:** Dry Plate    **Diameter:**  
**No. of Plates:** Two Plates  
**Actuation:**  
**Comments:**

### 3.2 TRANSMISSION

**Type:**    **Model:** "Single Rail"  
**Make:** Borg Warner    **Gearchange mount:** Floor Mounted  
**Case material:** Alloy  
**No. forward speeds:** 4  
**Gearbox location:** Rear of Engine  
**Identifying marks:**  
**Comments:**

### 3.3 FINAL DRIVE

**Make:** Borg Warner    **Model:**    **Type:**  
**Wheel drive method:** Rear  
**Ratios:** 2.92 - 3.23 - 3.5  
**Differential:**  
**Comments:**

### 3.4 TRANSMISSION SHAFTS (EXPOSED)

**Number:** 1    **Location:** Gearbox to Final Drive  
**Description:** Tubular Tailshaft  
**Comments:**

### 3.5 WHEELS & TYRES

<b>Wheel type:</b>	A84 Option	<b>Material:</b>	Alloy
<b>Fixture method:</b>	Nut	<b>No. studs:</b>	5
	<b>FRONT</b>		<b>REAR</b>
<b>Wheel dia. &amp; rim width</b>			
<b>Original:</b>	7 x 14		7 x 14
<b>Allowed:</b>			
<b>Tyre section:</b>			
<b>Original:</b>	ER 70/14		
<b>Allowed:</b>			
<b>Aspect ratio - minimum:</b>			
<b>Comments:</b>			

## SECTION 4 - GENERAL

### 4.1 FUEL SYSTEM

**Tank Location:** Rear **Capacity:** 17.5 Gallon  
**Fuel pump & type** **Make:**  
**Comments:** A84 Option: 35 Gallon Tank, Twin Filler Caps, mounted on rear quarter panel

### 4.2 ELECTRICAL SYSTEM

**Voltage:** 12 Volt Negative Earth  
**Battery Location:** Engine Compartment  
**Comments:**

### 4.3 BODYWORK

**Type:** Fixed Head Coupe **Material:** Steel  
**No. of seats:** 5 **No. doors:** 2  
**Comments:**

### 4.4 DIMENSIONS

**Track - Front:** 1634 mm **Rear:** 1644 mm  
**Wheelbase:** 2667 mm **Overall length:** 4564 mm  
**Dry weight:** 1472 kg  
**Comments:**

### 4.5 SAFETY EQUIPMENT

**Fire extinguisher:** Type:  
**Seat belt** Fitted: Recommended  
**Rollbar** Recommended  
**Electrical cut off switch** Recommended  
**fitted:**  
**Safety fuel tank fitted:** Recommended