

CAMS

5TH CATEGORY - HISTORIC RACING

GROUP Nb

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: Plymouth **Model:** Valiant

Period of Original Manufacture: September / 1963 - 1964

CAMS Historic Group: Nb

Date of Issue of this Document: 10th April 2000



SECTION 1 - CHASSIS

1.1 CHASSIS FRAME

Description: Unitary Construction
Manufacturer: Chrysler
Chassis no. from: 100001 - 135403
Chassis no. location: Left Front Door Hinge Pillar
Material: Steel
Comments:

Period of Manufacture:
September 1963 - 1964

1.2 FRONT SUSPENSION

Description: Independent - Unequal Length Wishbones
Spring medium: Torsion Bar
Damper Type: Telescopic
Anti-sway bar: Yes
Suspension adjustable: No
Comments:

Adjustable: No
Adjustable: No
Method: N/A

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: N/A

1.4 STEERING

Type: Recirculating Ball
Comments:

Make: Chrysler

1.5 BRAKES

	Front	Rear
Type:	Drum	Drum
Dimensions:	229 x 56mm	229 x 50mm
Material of drum/disc	Cast Iron	Cast Iron
No. cylinders/pots per wheel:	2	1
Actuation:	Hydraulic	Hydraulic
Caliper: Make, Material, Type:	N/A	N/A
Master cylinder make:	Girlock/PBR	Type: Centre Valve - Tandem
Adjustable bias:	No	
Servo Fitted:	No	
Comments:	Twin Master Cylinders Permitted	

SECTION 2 - ENGINE (170 ci)

2.1 ENGINE

Make:	Chrysler		
Model:	Slant 6		
No. cylinders:	6	Configuration:	In Line
Cylinder Block-material:	Cast Iron	Four Stroke	
Bore - Original:	86mm	Max. allowed:	89.5 mm
Stroke - original:	79.3mm	Max. allowed:	79.3mm
Capacity - original:	2788cc	Max. allowed:	3000cc
Cooling method:	Water		

Identifying marks:

Comments: Bore may be varied and/or stroke reduced to attain capacity limit for Class B (3000cc)

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:

2.4 IGNITION SYSTEM

Type:	Coil & Distributor
Make:	Chrysler / Bosch

Comments:

2.5 FUEL SYSTEM

Carburettor: Make:	Carter	Model: BBS	Size: Single Choke
Fuel injection Make:	N/A	Type:	
Supercharged:	N/A	Type:	

Comments Carburettor/s may be replaced by others of a period type

SECTION 2 - ENGINE (225 ci)

2.1 ENGINE

Make:	Chrysler		
Model:	Slant 6		
No. cylinders:	6	Configuration:	In Line
Cylinder Block-material:	Cast Iron	Four Stroke	
Bore - Original:	86mm	Max. allowed:	95.5 mm
Stroke - original:	104.7mm	Max. allowed:	104.7mm
Capacity - original:	3690cc	Max. allowed:	4500cc
Cooling method:	Water		

Identifying marks:

Comments: Bore may be varied and/or stroke reduced to attain capacity limit for Class A2 (4500cc)

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:

2.4 IGNITION SYSTEM

Type: Coil & Distributor
Make: Chrysler / Bosch

Comments:

2.5 FUEL SYSTEM

Carburettor: Make:	Carter	Model: BBS	Size: Single Choke
Fuel injection Make:	N/A	Type:	
Supercharged:	N/A	Type:	

Comments: Carburettor/s may be replaced by others of a period type

SECTION 2 - ENGINE (273 ci)

2.1 ENGINE

Make:	Chrysler		
Model:	V8		
No. cylinders:	8	Configuration:	Vee
Cylinder Block-material:	Cast Iron	Four Stroke	
Bore - Original:	92.2mm	Max. allowed:	Variable
Stroke - original:	84.07mm	Max. allowed:	84.07mm
Capacity - original:	4477cc	Max. allowed:	See Comments
Cooling method:	Water		

Identifying marks:

Comments: Bore may be varied and/or stroke reduced to attain capacity increase as permitted in Class A1

2.2 CYLINDER HEAD

Make:	Chrysler		
No. of valves/cylinder-		Inlet: 1	Exhaust: 1
No. of ports total:		Inlet:	Exhaust:
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:

2.4 IGNITION SYSTEM

Type:	Coil & Distributor
Make:	Chrysler

Comments:

2.5 FUEL SYSTEM

Carburettor: Make:	Carter	Model: 2BBL	Size:
Fuel injection Make:	N/A	Type:	4 Barrel optional
Supercharged:	N/A	Type:	

Comments Carburettor/s may be replaced by others of a period type

SECTION 3 - TRANSMISSION

3.1 CLUTCH

Make: Chrysler Type: Dry Plate Diameter: 235 mm
No. of Plates: 1
Actuation: Mechanical Linkage
Comments:

3.2 TRANSMISSION

Type: Manual - Syncromesh
Make: Chrysler Model: A-833
No. forward speeds: 4 Gearbox location: Behind engine
Gearchange type and location: Floor Lever
Case material: Alum. Alloy/Cast Iron Identifying marks:
Comments: 3 speed manual and 3 speed automatic also available

3.3 FINAL DRIVE

Make: Chrysler BW Model:
Wheel drive method: Rear
Ratios: Various
Differential: 'Sure Grip'- Limited Slip Type: Hypoid
Comments:

3.4 TRANSMISSION SHAFTS (EXPOSED)

Number: 1 Location: Gearbox to Final Drive
Description: Tubular One-piece Tailshaft
Comments:

3.5 WHEELS & TYRES

Wheel type: Original:	Steel Disc	Material: Original:	Steel
Allowed:	Period Alloy	Allowed:	Alloy
Fixture method:	Bolt on	No. studs:	5
	FRONT		REAR
Wheel dia. & rim width			
Original:	14 x 4.5		14 x 4.5
Allowed	14 x 5.5		14 x 5.5
Tyre section:			
Original:	650 x 14		650 x 14
Allowed:	205/60 x 14		205/60 x 14
Aspect ratio - minimum:	60%		60%
Comments:			

SECTION 4 - GENERAL

4.1 FUEL SYSTEM

Tank Location: Rear Capacity: 80 Litres
Fuel pump, type and location: Mechanical Make:
Comments:

4.2 ELECTRICAL SYSTEM

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

4.3 BODYWORK

Type: Two door sedan Material: Steel
No. of seats: 4 No. doors: 2
Comments:

4.4 DIMENSIONS

Track - Front: 1420mm Rear: 1412mm
Wheelbase: 2692mm Overall length: 4775mm
Dry weight: 1136Kg
Comments:

4.5 SAFETY EQUIPMENT

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

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