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:

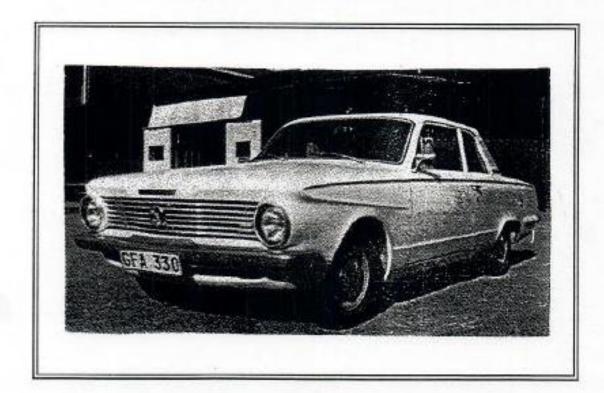
Valiant

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:

Manufacturer:

Chassis no. from:

Chassis no. location:

Material: Comments: Unitary Construction

Chrysler

100001 - 135403

Left Front Door Hinge Pillar

Period of Manufacture: September 1963 - 1964

1.2 FRONT SUSPENSION

Description:

Independent - Unequal Length Wishbones

Spring medium:

Torsion Bar

Damper Type: Anti-sway bar:

Telescopic Yes

Adjustable: No Adjustable: No

Suspension adjustable:

No

Method:

N/A

Comments:

1.3 REAR SUSPENSION

Description:

Live Axle

Spring medium:

Semi Elliptic Leaf

Damper type:

Telescopic

Anti-sway bar:

Comments:

No

Adjustable: Adjustable:

No No

Suspension adjustable:

No

Method:

N/A

1.4 STEERING

Type:

Recirculating Ball

Girlock/PBR

Make:

Chrysler

Reer

Drum

229 x 50mm

Cast Iron

1.5 BRAKES

Comments:

Type:

Dimensions: Material of drum/disc

No. cylinders/pots per wheel: Actuation:

Caliper: Make, Material, Type:

Adjustable bias:

Master cylinder make:

Servo Fitted:

Comments: Twin Master Cylinders Permitted

Front Drum

229 x 56mm Cast Iron

2 Hydraulic N/A

Hydraulic N/A

Type: Centre Valve - Tandem

No

No

SECTION 2 - ENGINE (170 ci)

2.1 ENGINE

Make:

Chrysler

Model:

Slant 6

No. cylinders:

Configuration:

In Line

Cylinder Block-material:

Cast Iron 86mm

Four Stroke Max, allowed:

89.5 mm

Bore - Original: Stroke - original:

79.3mm 2788cc

Max. allowed: Max. allowed: 79.3mm 3000cc

Capacity - original: 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 6

Exhaust:

1

· No. of ports total: No. of camshafts:

12

Inlet: Location:

Block

Exhaust: Drive:

Chain

Valve actuation:

Pushrod

Spark plugs/cylinder:

Identifying marks:

Comments:

2.3 LUBRICATION

Method:

Wet Sump

Oil tank location:

N/A

Dry sump pump type: Oil cooler standard:

N/A No

Location: Location:

N/A N/A

Comments:

2.4 IGNITION SYSTEM

Type:

Coil & Distributor Chrysler / Bosch

Make: Comments:

2.5 FUEL SYSTEM

Carburettor: Make:

Carter

Model: BES Size: Single Choke

Fuel injection Make:

N/A N/A

Type: Type:

Comments

Supercharged:

Carburettoris may be replaced by others of a period type

SECTION 2 - ENGINE (225 ci)

2.1 ENGINE

Make:

Chrysler

Model:

Slant 6

No. cylinders:

Configuration:

In Line

Cylinder Block-material:

Cast Iron

Four Stroke

95.5 mm

Bore - Original: Stroke - original:

86mm 104.7mm

Max. allowed: Max. allowed:

104.7mm

Capacity - original: Cooling method:

3690cc Water

Max. allowed:

4500cc

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:

Exhaust:

· No. of ports total: No. of camshafts:

12

inlet: Location:

Block

Exhaust: Drive:

6 Chain

Valve actuation:

Pushrod

Spark plugs/cylinder:

Identifying marks:

Comments:

2.3 LUBRICATION

Method:

Wet Sump

Oil tank location:

NIA

Dry sump pump type: Oil cooler standard:

N/A

Location:

NIA

Comments:

No

Location:

N/A

2.4 IGNITION SYSTEM

Type: Make:

Coil & Distributor Chrysler / Bosch

Comments:

2.5 FUEL SYSTEM

Carburettor: Make:

Carter

Model: BBS Size: Single Choke

Fuel Injection Make: Supercharged:

N/A

Type:

Comments

N/A

Type:

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

SECTION 2 - ENGINE (273 ci)

2.1 ENGINE

Make:

Chrysler

Model:

٧8

No. cylinders:

Configuration:

Vee

Cylinder Block-material:

Cast Iron

Four Stroke

Variable

Bore - Original:

92.2mm

Max. allowed: Max. allowed:

84.07mm

Stroke - original: Capacity - criginal: 84.07mm 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:

Exhaust:

· No. of ports total: No. of camshafts: inlet:

Location: Block Exhaust: Drive:

Chain

Valve actuation:

Pushrod

Spark plugs/cylinder:

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:

Actuation:

Mechanical Linkage

Comments:

3.2 TRANSMISSION

Type: Manual - Syncromesh Make: Chrysler

Model:

A-833

No. forward speeds:

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 Sip Type:

Hypoid

Comments:

3.4 TRANSMISSION SHAFTS (EXPOSED)

Number:

Location: Gearbox to Final Drive

Description:

Tubular One-piece Tailshaft

Comments:

3.5 WHEELS & TYRES

Wheel type: Original:

Steel Disc Period Alloy Material: Original: Steel

Allowed: Fixture method:

Bott on

Allowed: Alloy No. studs:

REAR

Wheel dia, & rim width

Original:

FRONT 14 x 4.5

Allowed

14 x 5.5

14 x 4.5 14 x 5.5

Tyre section:

Original:

650 x 14

650 x 14

Allowed: Aspect ratio - minimum:

205/60 x 14

205/60 x 14

60%

60%

Comments:

SECTION 4 - GENERAL

4.1 FUEL SYSTEM

Tank Location:

Rear

Engine Compartment

Mechanical

Capacity:

80 Litres

Fuel pump, type and location:

Comments:

Make:

4.2 ELECTRICAL SYSTEM

Vottage:

Alternator fitted

Battery Location:

Comments:

4.3 BODYWORK

Type:

Two door sedan

Material:

Steel

2

No. of seats:

No. doors:

Comments:

4.4 DIMENSIONS

Track - Front: Wheelbase:

1420mm

2692mm

1135Kg

Rear: Overall length:

1412mm 4775mm

Dry weight: Comments:

4.5 SAFETY EQUIPMENT Fire extinguisher required

Seat belt required Rollbar required

Electrical cut off switch required

Safety fuel tank optional

RP:mr-Plymouth Valiant.doc