

5TH CATEGORY

GROUP No.

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.

Chevrolet

Model:

Camaro 396 Big Block

Period of Original Manufacture:

1968

CAMS Historic Group:

No

FIA Recognition Number:

Not Recorded

Date of Issue of this Document:

March 2004



SECTION 1 - CHASSIS

1.1 CHASSIS FRAME

Description:

Unitary construction

Period of Manufacture:

Manufacturer:

GM USA

Jan 1968-Dec 1968

Chassis No. from:

124378N-300001

Chassis No. location:

Left hand side top of dash

Material:

Steel

Comments: Further modifications - Refer Group Nc regulations

1.2 FRONT SUSPENSION

Description:

Double wishbone

Spring Medium:

Coil

Damper Type:

Tubular

Adjustable:

Permitted

Anti-Sway Bar:

Originally fitted

Adjustable:

Permitted

Suspension Adjustable: Yes

Method:

Comments:

by shims

Modifications permitted - refer Group No.

regulations

1.3 REAR SUSPENSION

Description:

Live rear axle

Spring Medium:

Semi-elliptic leaf springs

Yes, traction and panhard

Damper Type:

Hydraulic telescopic

Adjustable:

Permitted

Anti-Sway Bar:

Adjustable:

Permitted

Suspension Adjustable: Yes

Method:

Comments:

Modifications permitted - refer Group No.

regulations

1.4 STEERING

Type:

Recirculating ball & nut

Make:

Comments:

Modifications permitted - Refer Group Nc regulations

1.5 BRAKES

Front

Rear

GM

Type:

Disc

Drum

Dimensions:

11 in

9.5 in

Area per brake:

247in^a

237 in²

Materials of Disc/Drum:

Cast Iron

Cast iron

No. cylinders/wheel:

Four

One

Actuation: Calliper Make: Hydraulic

Hydraulic

Master Cylinder Make:

Unspecified

Unspecified

GM

Type:

Double

Adjustable Bias:

Not originally fitted

Servo Fitted:

Not originally fitted

Comments: Brake modifications permitted - refer Group Nc regulations

SECTION 2 - ENGINE

2.1 ENGINE

Make:

GM

Model:

Chevrolet Big Block Cast Iron

No. Cylinders:

Eight (8)

Configuration:

Vee

Cylinder Block Material:

Cast Iron

Four Stroke

Bore - Original:

103.98mm

Max. Allowed:

105.48mm

Stroke - Original:

95.5mm

Max. Allowed:

95.5mm

Capacity - Original:

6486cc

Max. Allowed:

6672cc

Main Bearing Caps:

Four (4)or (2) bolt Cast Iron

Cooling Method:

Water-cooled

Identifying marks:

Block # 3916323,3935440,3955272 only

Comments: Further modifications - Refer Group Nc regulations

2.2. CYLINDER HEAD

Make:

General Motors

No. valves/cylinder:

2

inlet: 1 Exhaust:

No. ports total:

8

Inlet: 4

Exhaust:

No. of camehafts:

1

1

Location: Cyl block

Drive: Chain

Valve actuation:

Cam followers, pushrods and rockers

Spark plugs/cylinder:

Identifying marks:

Head# 3919842 only

Comments: Further modifications - Refer Group No regulations. Cast Iron or Aluminium Heads

permitted.

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: Further modifications - Refer Group Nc regulations

2.4 IGNITION

Type:

Battery, coil & distributor

Make:

Delco Remy

Comments:

Original battery location in rear of car.

Ignition modifications permitted - refer Group Nc regulations

2.5 FUEL FEED

Carburettor Make: Holley Model: 4V Downdraft No: 2 Size: Four passages

Fuel Injection Make: N/A Type: Supercharged: Type:

Comments: Carburettor modifications permitted - refer Group No.

regulations

SECTION 3 - TRANSMISSION

3.1 CLUTCH

Make: GM Diameter: 280mm Type: Dry plate

No. of plates:

One

Mechanical/hydraulic Actuation:

Clutch modifications permitted - refer Group Nc regulations Comments:

3.2 TRANSMISSION

Synchromesh Type:

Model: M20-M21-M22 Make: Muncie

No. forward speeds: Gearbox location: Behind engine

Gearchange type and location: Remote - central floor mounting

Case material: Identifying marks: N/A Alloy

Comments:

Gearbox modifications permitted - refer Group Nc regulations

3.3 FINAL DRIVE

Make: GM, Salisbury 12Bolt Model:

Wheel drive method: Rear

Ratios: Free

Positive Locking (ratchet or roller) Differential: GM Type:

Comments: Modifications permitted - refer Group Nc regulations

3.4 TRANSMISSION SHAFTS (EXPOSED)

Number: One Location: Gearbox to rear axle

Description: Tubular steel with Hardy-Spicer type U/Js

Comments: Modifications permitted – refer Group Nc regulations

3.5 WHEELS & TYRES

Wheel type: Original: Steel or magnesium

> Allowed: Period style alloy

Fixture method: Studs & nuts No. studs: 5

Wheel dia & rim width Front Rear

15" x 6.00" 15" x 6.00" Original:

> 15" x 8.0" 15° x 8.0" Allowed:

Aspect ratio:

Minimum:

60%

60%

Comments:

Refer Group Nc regulations

SECTION 4 - GENERAL

4.1 FUEL SYSTEM

Tank location:

Boot

Capacity

N/A

Fuel pump type & location: not specified

Make:

not specified

Comments:

Carburettor modifications permitted - refer Group No.

Regulations

4.2 ELECTRICAL SYSTEM

Voltage:

12v

Alternator fitted:

Yes

Battery location:

Engine compartment/Luggage compartment

Comments:

Ignition modifications permitted - refer General regulations

4.3 BODYWORK

Type:

Closed touring car

Material:

Sheet steel and glass

No. of seats:

Four (4)

No. doors:

Two (2)

Comments:

Other modifications - refer Group Nc regulations.

4.4 DIMENSIONS

Track - front:

1498.6mm Rear:

1496.6mm

Wheelbase:

2743.2mm

Overall length:

4691.4mm

Dry weight:

1410 kilograms excluding driver and fuel but including all operating fluids.

Comments:

Track is free - refer Group Nc regulations

4.5 SAFETY EQUIPMENT

Fire extinguisher:

See Schedule H CAMS Manual

Seat Belt:

See Schedule I CAMS Manual

Roll bar:

See Schedule J and General regulations article 3 CAMS Manual

Electrical cut-off switch:

Required

Safety fuel tank:

Optional

ADDITIONAL INFORMATION

Vehicle fitted rectangular front indicators in grill and back up lights under rear bumper

No cowl induction hood

Deletion of heater/demister/air cond allowed

Power steering allowed

Must use 68 disc front hubs (67 are identical but not 69)