5TH CATEGORY

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:	**Chevrolet**	Model:	**Camaro 350 Small Block**
Period of Original Manufacture:	**1968**		
CAMS Historic Group:	**Nc**		
FIA Recognition Number:	**Not Known**		
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:	24378N-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:**	by shims

Comments: Modifications permitted – refer roup Nc regulations

1.3 REAR SUSPENSION

Description:	Live rear axle		
Spring Medium:	Semi-elliptic leaf springs		
Damper Type:	Hydraulic telescopic	**Adjustable:**	Permitted
Anti-Sway Bar:	Yes, traction and panhard	**Adjustable:**	Permitted
Suspension Adjustable: Yes		**Method:**	

Comments: Modifications permitted – refer Group Nc regulations

1.4 STEERING

Type:	Recirculating ball & nut	**Make:**	GM

Comments: Modifications permitted - Refer Group Nc regulations

1.5 BRAKES	**Front**	**Rear**
Type:	Disc	Drum
Dimensions:	11 in	9.5 in
Area per brake:	247in²	237 in²
Materials of Disc/Drum:	Cast Iron	Cast iron
No. cylinders/wheel:	Four	One
Actuation:	Hydraulic	Hydraulic
Calliper Make:	Unspecified	Unspecified
Master Cylinder Make:	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 Small Block Cast Iron		
No. Cylinders:	Eight (8)	**Configuration:**	Vee
Cylinder Block Material:	Cast Iron	Four Stroke	
Bore – Original:	101.6mm	**Max. Allowed:**	103.1mm
Stroke – Original:	88.39mm	**Max. Allowed:**	88.39mm
Capacity – Original:	5735cc	**Max. Allowed:**	5895cc
Main Bearing Caps:	Four (4) bolt Cast Iron		
Cooling Method:	Water-cooled		
Identifying marks:	As per attached list		

Comments: Further modifications - Refer Group Nc regulations

2.2. CYLINDER HEAD

Make:	GM Cast Iron				
No. valves/cylinder:	2	**Inlet:**	1	**Exhaust:**	1
No. ports total:	8	**Inlet:**	4	**Exhaust:**	4
No. of camshafts:	1	**Location:**	Cyl block	**Drive:**	Chain
Valve actuation:	Cam followers, pushrods and rockers				
Spark plugs/cylinder:	1				
Identifying marks:	As per attached list				

Comments: Further modifications - Refer Group Nc regulations

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 ns

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: No **Type:**

Comments: Carburettor modifications permitted – refer Group Nc regulations

SECTION 3 – TRANSMISSION

3.1 CLUTCH

Make: GM **Type:** Dry plate **Diameter:** 280mm

No. of plates: One

Actuation: Mechanical/hydraulic

Comments: Clutch modifications permitted – refer Group Nc regulations

3.2 TRANSMISSION

Type: Synchromesh

Make: Muncie **Model:** M20-M21-M22

No. forward speeds: 4 **Gearbox location:** Behind engine

Gearchange type and location: Remote – central floor mounting

Case material: Alloy **Identifying marks:** N/A

Comments:

Gearbox modifications permitted – refer Group Nc regulations

3.3 FINAL DRIVE

Make: GM, Salisbury **Model:** 10 Bolt or 12Bolt

Wheel drive method: Rear

Ratios: Free

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

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**
Original:	15" x 6.00"	15" x 6.00"
Allowed:	15" x 8.0"	15" x 8.0"

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 Nc 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:	1256 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 with rectangular indicators in the 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)

Engine Block Casting Numbers

#3782870	#3790721	#3791362	#3858174	#3858180
#3892657	#3903352	#3914660	#3914678	#3932386
#3932388	#395618	#3970010	#3970014	#3970016

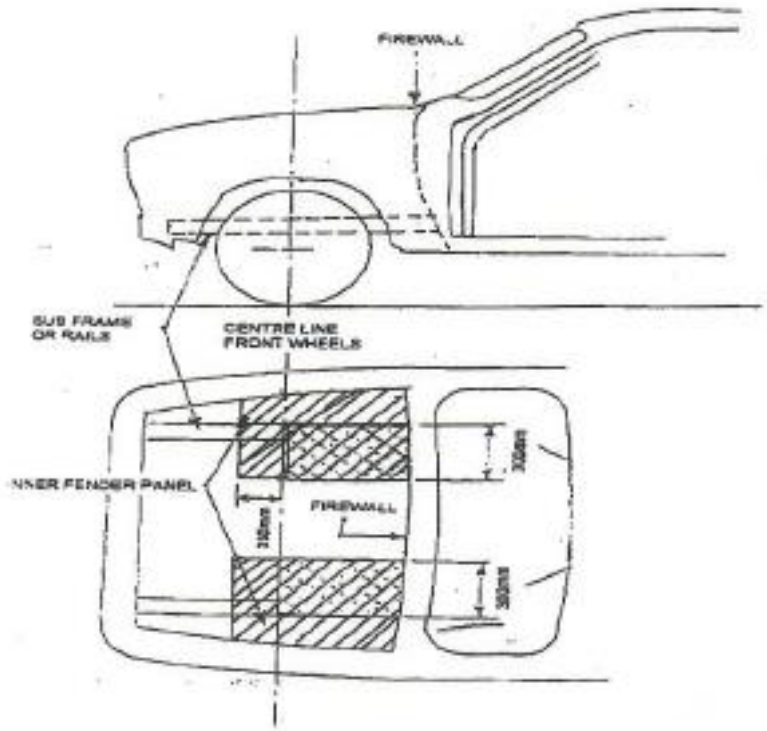
OR OTHERS BY SPECIFIC APPROVAL

Cylinder Head Casting Numbers

#3782461	#3890462	#3917291	#3917292	#3917293
#3927185	#3927186	#3927187	#3927188	#3932441
#3947041	#3973414	#3973487	#3986316	#3986339
	#3991492	#3998916	#3998993	

OR OTHERS BY SPECIFIC APPROVAL

SUB-FRAME REINFORCEMENT



IN PLAN VIEW ALL REINFORCEMENTS MUST BE WITHIN TWO RECTANGLES OF LENGTH BEING THE DISTANCE FROM 200mm IN FRONT OF THE FRONT WHEEL CENTRELINE TO FIREWALL AND THE WIDTH OF THE INSIDE OF THE BONNET OPENING TO 300mm MEASURED FROM INSIDE THE INNER FENDER PANEL

LOCATION OF SUB-FRAME REINFORCEMENTS

SPECIFICATIONS

MATERIAL: Round mild steel tubing 38mm diam. X 2.5mm wall thickness.

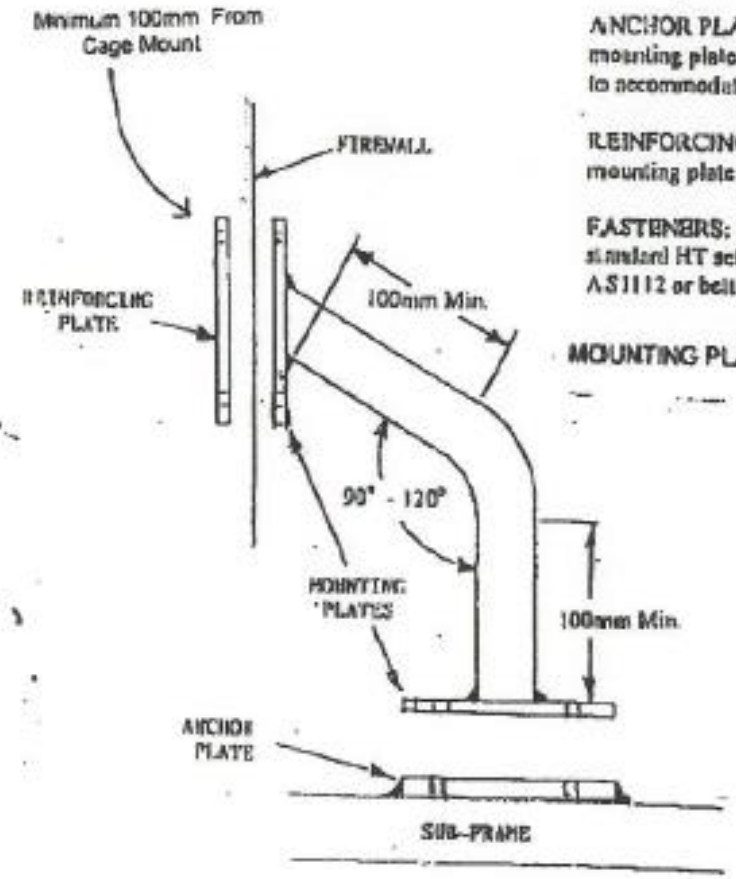
BEND – of included angle between 90° and 120° must be incorporated with not less than 100mm of straight tube on either side of bend.

ANCHOR PLATE: Mild steel of 8mm minimum thickness matching the mounting plate and welded to the sub-frame and incorporating tapped holes to accommodate fasteners.

REINFORCING PLATE (upper mounting): Mild steel 3mm thick to match mounting plate and attached by bolts through firewall.

FASTENERS: Each mounting to incorporate at least two M8 size to ISO standard HT setscrews to AS2465 or cap screws to AS1420 and nuts to AS1112 or better.

MOUNTING PLATES : Mild steel maximum dimension 75mm x 75mm



SUB–FRAME REINFORCEMENT

Eligibility officers be aware the main items are the bent brace and that the mount on the fire wall does not align with any part of the roll cage. The mounting plates can vary to incorporate a 90 degree plate at the top of the bulkhead.