



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:	Ford	Model:	Mustang
Period of Original Manufacture:	1968		
CAMS Historic Group:	Nc		
FIA Recognition Number:	1510		
Date of Issue of this Document:	March 2004		



SECTION 1 – CHASSIS

1.1 CHASSIS FRAME

Description: Unit construction **Period of Manufacture:**
Manufacturer: Ford USA 1967 – 1968
Chassis No. from: 8F01D-100001
Chassis No. location: Inner front guard in engine compartment
Material: Steel

Comments: Further modifications - Refer Group Nc regulations. If a 1967 body is used, modifications are to be made to incorporate 1968 cosmetics, eg grill, recess in front guards and rear quarters for indicators.

1.2 FRONT SUSPENSION

Description: Independent by upper wishbone & lower TCA with forward link
Spring Medium: Coil
Damper Type: Tubular - adjustable **Adjustable:** Permitted
Anti-Sway Bar: Originally fitted **Adjustable:** Permitted
Suspension Adjustable: Yes **Method:** by eccentric TCA Pivot
Comments: Modifications permitted – refer Group 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:** Ford
Comments: Original steering box 27:1 optional 22:1, Modifications permitted - refer Group Nc regulations

1.5 BRAKES

	Front	Rear
Type:	Disc	Drum
Dimensions:	287 x 20.3mm	254 x 63.5mm
Area per brake:	12,214mm ²	31,454mm ² ²
Materials of Disc/Drum:	Cast Iron	Pressed Steel
No. cylinders/wheel:	Four	One
Actuation:	Hydraulic	Hydraulic
Calliper Make:	Kelsey Hayes	Unspecified
Master Cylinder Make:	Unspecified	Type: Double
Adjustable Bias:	Not originally fitted	

Servo Fitted: No

Comments: Brake modifications permitted – refer Group Nc regulations

SECTION 2 – ENGINE

2.1 ENGINE

Make: Ford
Model: Windsor 302 Cu In 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: 76.2mm **Max. Allowed:** 76.2mm
Capacity – Original: 4949cc **Max. Allowed:** 5096cc
Cooling Method: Water-cooled
Identifying marks: Area behind inlet manifold 50% solid 50% hollowed out.

Comments: Any period 2 bolt block can be used, 4 bolt conversion allowed. If using tunnel port heads factory 4 bolt engine option allowed as with the substitution approved by HC to use Ford Motorsport Block Part# M 6010 A4. Further modifications - Refer Group Nc regulations

2.2. CYLINDER HEAD

Make: Ford 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: 302 Cast into head adjacent rocker stud boss

Comments: Tunnel Port Heads allowed if using factory 4 bolt engine block or HC approved substitute. Further modifications - Refer Article 4.2 of 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 Article 4.4 of Group Nc regulations

2.4 IGNITION

Type: Battery, coil & distributor

Make: Ford

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 Article 5 of Group Nc regulations

SECTION 3 – TRANSMISSION

3.1 CLUTCH

Make: Ford **Type:** Dry plate **Diameter:** 267mm

No. of plates: One

Actuation: Mechanical/hydraulic

Comments: Clutch modifications permitted – refer Group Nc regulations

3.2 TRANSMISSION

Type: Synchromesh

Make: Borg Warner **Model:** T-10
Ford Toploader

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

Gearchange type and location: Remote – central floor mounting

Case material: Cast iron & Alloy **Identifying marks:** N/A

Comments: permitted gear ratios:

1.	2.36	2.20	2.20
2.	1.62	1.64	1.42
3.	1.20	1.31	1.19
4.	1.00	1.00	1.00

Gearbox modifications permitted – refer Group Nc regulations

3.3 FINAL DRIVE

Make: Hypoid, semi-floating, straddle-mounted pinion **Model:** 9'

Wheel drive method: Rear

Ratios: 3.00, 3.10, 3.25, 3.40, 3.50, 3.70, 3.89, 4.11, 4.33, 4.57, 4.71, 4.86 and 5.14

Differential: Ford **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:	14" x 7.00/8.00"	14" x 7.00/8.00"
Allowed:	15" x 8.0"	15" x 8.0"
Wheel Weight: (without tyre)	5.9Kg	5.9Kg
Aspect ratio: Minimum:	60%	60%
Comments:	Refer Group Nc regulations	

SECTION 4 – GENERAL

4.1 FUEL SYSTEM

Tank location:	Boot	Capacity:	75 Ltr
Fuel pump type & location:	not specified	Make:	not specified
Comments:	Carburettor modifications permitted – refer Article 5 of Group Nc Regulations		

4.2 ELECTRICAL SYSTEM

Voltage:	12v	Alternator fitted:	Yes
Battery location:	Engine compartment or Boot		
Comments:	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:	1526.5mm	Rear:	1518.9mm (with 7.00" rims)
Wheelbase:	2743.2mm	Overall length:	4663.4mm
		Overall width:	1811mm
Dry weight:	1188 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

