

# CAMS

5TH CATEGORY - HISTORIC RACING

**GROUP N(c)**

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.

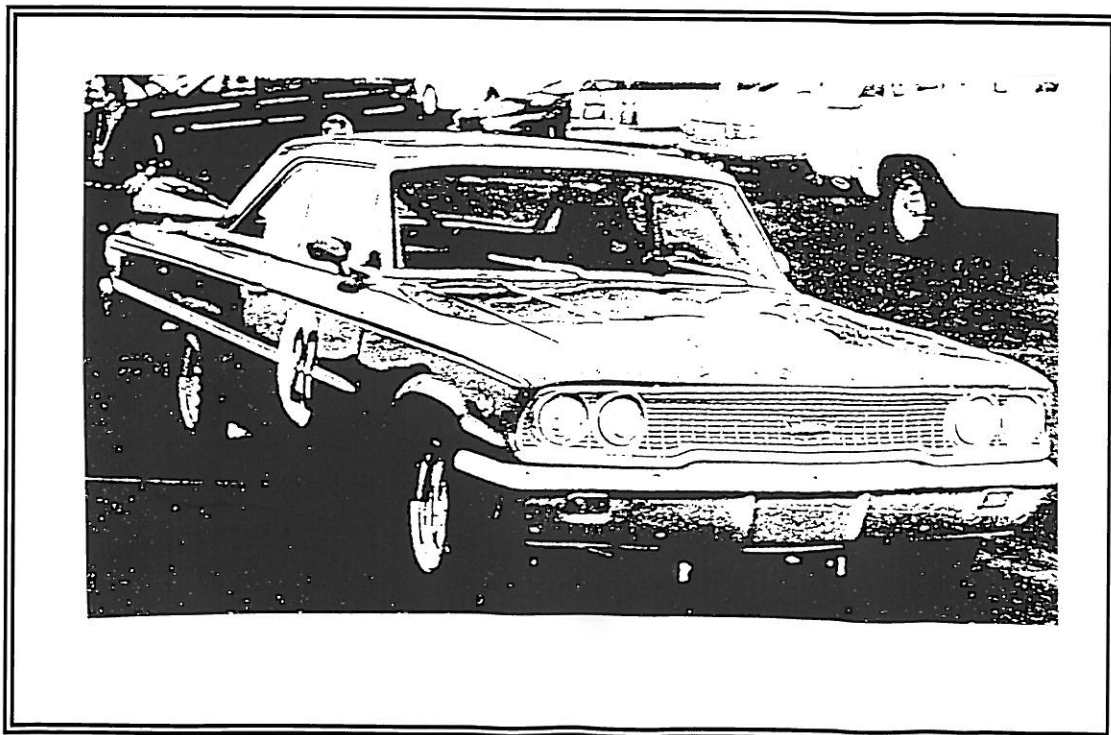
**Make of Car:** Ford **Model:** Galaxie 'R'

**Period of Original Manufacture:** 1963/4

**CAMS Historic Group:** N(c)

**Date of Issue of this Document:** 7/4/2000

**Updated:** 23<sup>rd</sup> March 2009



## SECTION 1 - CHASSIS

### 1.1 CHASSIS FRAME

**Description:** Unitary Construction **Period of Manufacture:** 1963 - 64  
**Manufacturer:** Ford  
**Chassis no. from:** RW66R  
**Chassis no. location:** RHS Firewall (Top)  
**Material:** Steel  
**Comments:**

### 1.2 FRONT SUSPENSION

**Description:** Independent - Wishbone (Upper & Lower)  
**Spring medium:** Coil  
**Damper Type:** Telescopic **Adjustable:** No  
**Anti-sway bar:** Yes **Adjustable:** No  
**Suspension adjustable:** Yes **Method:** Shims  
Eccentric Bush (Caster)  
**Comments:**

### 1.3 REAR SUSPENSION

**Description:** Live Axle  
**Spring medium:** Leaf - Semi Elliptic  
**Damper type:** Telescopic **Adjustable:** No  
**Anti-sway bar:** No **Adjustable:** N/A  
**Suspension adjustable:** No **Method:** N/A  
**Comments:**

### 1.4 STEERING

**Type:** Recirculating Ball **Make:** Ford  
**Comments:**

### 1.5 BRAKES

	Front	Rear
<b>Type:</b>	Disc	Drum
<b>Dimensions:</b>	276 x 32mm	280 x 64mm
<b>Material of drum/disc</b>	Cast Iron	Cast Iron
<b>No. cylinders/pots per wheel:</b>	4	1
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper: Make, Material, Type:</b>	Ford - Cast Iron	
<b>Master cylinder make:</b> PBR		<b>Type:</b> Single
<b>Adjustable bias:</b> No		
<b>Servo Fitted:</b>		
<b>Comments:</b> Twin Master Cylinders permitted		

## SECTION 2 - ENGINE

### 2.1 ENGINE

<b>Make:</b>	Ford		
<b>Model:</b>	FE427	<b>Centre oiled or side oiled engine</b>	
<b>No. cylinders:</b>	8	<b>Configuration:</b>	Vee
<b>Cylinder Block-material:</b>	Cast Iron	<b>Four Stroke</b>	Yes
<b>Bore - Original:</b>	107.5mm	<b>Max. allowed:</b>	109
<b>Stroke - original:</b>	96.0mm	<b>Max. allowed:</b>	96.0mm
<b>Capacity - original:</b>	6966cc	<b>Max. allowed:</b>	7162cc
<b>Cooling method:</b>	Water		
<b>Identifying marks:</b>			
<b>Comments:</b>			

### 2.2 CYLINDER HEAD

<b>Make:</b>	Ford FE				
<b>No. of valves/cylinder-</b>		<b>Inlet:</b>	1	<b>Exhaust:</b>	1
<b>No. of ports total:</b>	16	<b>Inlet:</b>	8	<b>Exhaust:</b>	8
<b>No. of camshafts:</b>	1	<b>Location:</b>	OHV	<b>Drive:</b>	Chain
<b>Valve actuation:</b>			Pushrod		
<b>Spark plugs/cylinder:</b>	1				
<b>Identifying marks:</b>					
<b>Comments:</b>	<u>Either the 1963 FE 427 centre oiler engine block or the 1965 CA5E FE 427 side oiler engine block may be used.</u>				

### 2.3 LUBRICATION

<b>Method:</b>	Wet Sump	<b>Oil tank location:</b>	N/A
<b>Dry sump pump type:</b>	N/A	<b>Location:</b>	
<b>Oil cooler standard:</b>	Yes	<b>Location:</b>	Front of Radiator
<b>Comments:</b>			

### 2.4 IGNITION SYSTEM

<b>Type:</b>	Coil & Distributor
<b>Make:</b>	Optional
<b>Comments:</b>	

### 2.5 FUEL SYSTEM

<b>Carburettor: Make:</b>	Holley	<b>Model :</b>	4 bbl x 2	<b>Size:</b>	660
<b>Fuel injection Make:</b>	No	<b>Type:</b>			
<b>Supercharged:</b>	No	<b>Type:</b>			
<b>Comments:</b>					

## SECTION 3 - TRANSMISSION

### 3.1 CLUTCH

**Make:** Various      **Type:** Dry Plate      **Diameter:** 215mm  
**No. of Plates:** 1  
**Actuation:** Hydraulic  
**Comments:** Clutch Free

### 3.2 TRANSMISSION

**Type:** 4 Speed & Synchromesh  
**Make:** Ford / Borg Warner      **Model:** Top Loader or Borg Warner T10 behind engine  
**No. forward speeds:** 4      **Gearbox location:**  
**Gearchange type and location:** Floor  
**Case material:** Cast Iron      **Identifying marks:**  
**Comments:**

### 3.3 FINAL DRIVE

**Make:** Ford      **Model:** 9"  
**Wheel drive method:** Rear  
**Ratios:** Various  
**Differential:** Spin Resistant      **Type:** Detroit Locker  
**Comments:**

### 3.4 TRANSMISSION SHAFTS (EXPOSED)

**Number:**      **Location:** Gearbox to Final Drive  
**Description:** Tubular Tailshaft  
**Comments:**

### 3.5 WHEELS & TYRES

<b>Wheel type:</b> Original:	15 x 7"	<b>Material:</b> Original:	Steel
Allowed:	15 x 8"	Allowed:	Alloy
<b>Fixture method:</b>	Nuts	<b>No. studs:</b>	5
<b>Wheel dia. &amp; rim width</b>	<b>FRONT</b>	<b>REAR</b>	
	15 x 8"	15 x 8"	
Original:			
Allowed:			
<b>Tyre section:</b>			
Original:			
Allowed:	225/60/15	275/60/15	
<b>Aspect ratio - minimum:</b>			
<b>Comments:</b>			

## SECTION 4 - GENERAL

### 4.1 FUEL SYSTEM

Tank Location: Rear  
Fuel pump, type and location: Electric  
Capacity: 100 Litres  
Make: Holley  
Comments:

### 4.2 ELECTRICAL SYSTEM

Voltage: 12 Volt  
Battery Location: Behind Passenger Seat  
Comments: Alternator fitted

### 4.3 BODYWORK

Type: Fixed Head Coupe  
No. of seats: 5  
Material: Steel/Fibreglass  
No. doors: 2  
Comments:

### 4.4 DIMENSIONS

Track - Front: 1650mm  
Wheelbase: 3023mm  
Dry weight: 1700 Kg (approx)  
Rear: 1580mm  
Comments: Overall length:

### 4.5 SAFETY EQUIPMENT

Fire extinguisher required  
Seat belt required  
Rollbar optional/required  
Electrical cut off switch required  
Safety fuel tank optional/required  
Type fitted and location:  
Type and make fitted: Simpson  
Yes  
Yes  
Yes

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