

# CAMS

5TH CATEGORY - HISTORIC RACING

**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:** Lotus Cortina Mk2

**Period of Original Manufacture:** February 1967 – July 1970

**CAMS Historic Group:** NC

**Date of Issue of this Document:** 11<sup>th</sup> August 2000



## SECTION 1 - CHASSIS

### 1.1 CHASSIS FRAME

**Description:** Unitary Construction **Period of Manufacture:** 1967 - 1970  
**Manufacturer:** Ford  
**Chassis no. from:** CK 1338C  
**Chassis no. location:** Top of RH Skirt – Front of Strut Mount  
**Material:** Steel  
**Comments:**

### 1.2 FRONT SUSPENSION

**Description:** Independent – McPherson Strut  
**Spring medium:** Coil  
**Damper Type:** Telescopic (Internal) **Adjustable:** No  
**Anti-sway bar:** Fitted **Adjustable:** No  
**Suspension adjustable:** No **Method:**  
**Comments:** Spring Rates and Ride Height free. Shock Absorber free subject to their being or appropriate period type and to the use of original mounts.

### 1.3 REAR SUSPENSION

**Description:** Live Axle  
**Spring medium:** Semi Elliptic Leaf  
**Damper type:** Double Acting Telescopic **Adjustable:** No  
**Anti-sway bar:** Not Fitted **Adjustable:** N/A  
**Suspension adjustable:** No **Method:**  
**Comments:** Spring Rates & Ride Height free. Shock Absorber free subject to their being of appropriate period type and to the use of original mounts. Axle location may be improved.

### 1.4 STEERING

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

### 1.5 BRAKES

	<b>Front</b>	<b>Rear</b>
<b>Type:</b>	Disc	Drum
<b>Dimensions:</b>	243 x 12 mm	229 x 44 mm
<b>Material of drum/disc</b>	Cast Iron	Cast Iron
<b>No. cylinders/pots per wheel:</b>	2	1
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper: Make, Material, Type:</b>	Girling Cast Iron	
<b>Master cylinder make:</b>	P.B.R.	<b>Type:</b> Tandem
<b>Adjustable bias:</b>	No	
<b>Servo Fitted:</b>	No	
<b>Comments:</b>	Twin Master Cylinders may be fitted. Any braking system may be fitted, provided the swept area is not increased and all components are of period origin.	

## SECTION 2 - ENGINE

### 2.1 ENGINE

Make:	Ford		
Model:	'L' Block		
No. cylinders:	4	Configuration:	In Line
Cylinder Block-material:	Cast Iron	Four Stroke	
Bore - Original:	82.565 mm	Max. allowed:	84.06
Stroke - original:	72.746mm	Max. allowed:	72.75
Capacity - original:	1560cc	Max. allowed:	1610cc
Cooling method:	Water		
Identifying marks:	'L' on RH Side of Block & Casting No. 681F6015A on Left Side of Block		

Comments:

### 2.2 CYLINDER HEAD

Make:	Lotus Ford		
No. of valves/cylinder-		Inlet:	1
No. of ports total:		Inlet:	4
No. of camshafts:	2	Location:	Head
Valve actuation:	Buckets	Exhaust:	1
Spark plugs/cylinder:	One	Exhaust:	4
Identifying marks:		Drive:	Chain

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:	Oil Cooler Permitted		

### 2.4 IGNITION SYSTEM

Type:	Coil & Distributor
Make:	Bosch
Comments:	Coil/Distributor may be replaced with period items of different manufacture.

### 2.5 FUEL SYSTEM

Carburettor: Make:	Weber (x2)	Model:	DCOE	Size:	45mm
Fuel injection Make:		Type:			
Supercharged:		Type:			
Comments:	Carburettors may be replaced by others of period type.				

## SECTION 3 - TRANSMISSION

### 3.1 CLUTCH

**Make:** Borg & Beck    **Type:** Diaphragm    **Diameter:** 203mm  
**No. of Plates:** 1  
**Actuation:** Hydraulic  
**Comments:** Clutch Free

### 3.2 TRANSMISSION

**Type:**  
**Make:** Ford    **Model:** 2000E  
**No. forward speeds:** 4    **Gearbox location:** Rear of Engine  
**Gearchange type and location:** Floor - Remote  
**Case material:** Cast Iron    **Identifying marks:** 3F27  
**Comments:**

### 3.3 FINAL DRIVE

**Make:** Ford    **Model:** Banjo Type  
**Wheel drive method:** Rear  
**Ratios:** 4.444 (Std)  
**Differential:** Free    **Type:** Semi Floating Hypoid  
**Comments:** Ratios Free – Limited Slip Diff Permitted

### 3.4 TRANSMISSION SHAFTS (EXPOSED)

**Number:** 1    **Location:** Gearbox to Final Drive.

**Description:** Tubular Tailshaft with Universal Joints  
**Comments:**

### 3.5 WHEELS & TYRES

<b>Wheel type:</b>	<b>Original:</b> Pressed Steel	<b>Material:</b>	<b>Original:</b> Steel
	<b>Allowed:</b> Period Alloy		<b>Allowed:</b> Mag/Alloy
<b>Fixture method:</b>	4 Studs	<b>No. studs:</b>	
	<b>FRONT</b>		<b>REAR</b>
<b>Wheel dia. &amp; rim width</b>			
	<b>Original:</b> 5.5 x 13		5.5 x 13
	<b>Allowed:</b> 7 x 13		7 x 13
<b>Tyre Section:</b>			
	<b>Original:</b> 165 x 13		165 x 13
	<b>Allowed:</b> 205 x 13		205 x 13
<b>Aspect ratio - minimum:</b>	60%		
<b>Comments:</b>	Minilite Wheels Ford Optional Equipment		

## **SECTION 4 - GENERAL**

### **4.1 FUEL SYSTEM**

<b>Tank Location:</b>	Boot	<b>Capacity:</b>	45 Litres
<b>Fuel pump, type and location:</b>	Electric/Boot	<b>Make:</b>	Facet
<b>Comments:</b>	Fuel Pump/s free		

### **4.2 ELECTRICAL SYSTEM**

<b>Voltage:</b>	12V	<b>Generator fitted</b>
<b>Battery Location:</b>	Engine Compartment	
<b>Comments:</b>	Battery may be relocated	

### **4.3 BODYWORK**

<b>Type:</b>	Two Door Sedan	<b>Material:</b>	Steel
<b>No. of seats:</b>	5	<b>No. doors:</b>	2
<b>Comments:</b>	Body shell may be seam welded		

### **4.4 DIMENSIONS**

<b>Track - Front:</b>	1359mm	<b>Rear:</b>	1321 mm
<b>Wheelbase:</b>	2490mm	<b>Overall length:</b>	4267mm
<b>Dry weight:</b>	920 Kg		
<b>Comments:</b>			

### **4.5 SAFETY EQUIPMENT**

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

Ford Lotus Cortina Mk2