

# 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: Toyota Model: Corolla KE11

Period of Original Manufacture: 1969 - 1970

CAMS Historic Group: Nc

Date of Issue of this Document: 15<sup>th</sup> December 1999



## SECTION 1 - CHASSIS

### 1.1 CHASSIS FRAME

<b>Description:</b>	Unitary Construction	<b>Period of Manufacture:</b>
		1969 - 1970
<b>Manufacturer:</b>	Toyo Kogyo Ltd	
<b>Chassis no. from:</b>		
<b>Chassis no. location:</b>		
<b>Material:</b>	Steel	
<b>Comments:</b>		

### 1.2 FRONT SUSPENSION

<b>Description:</b>	Independent - McPherson Strut	
<b>Spring medium:</b>	Coil	
<b>Damper Type:</b>	Hydraulic	<b>Adjustable:</b> No
<b>Anti-sway bar:</b>	Not Fitted	<b>Adjustable:</b> N/A
<b>Suspension adjustable:</b>	No	<b>Method:</b>
<b>Comments:</b>		

### 1.3 REAR SUSPENSION

<b>Description:</b>	Live Axle	
<b>Spring medium:</b>	Semi-Elliptic Leaf	
<b>Damper type:</b>	Telescopic	<b>Adjustable:</b> Optional
<b>Anti-sway bar:</b>	Not Fitted	<b>Adjustable:</b> N/A
<b>Suspension adjustable:</b>	No	<b>Method:</b>
<b>Comments:</b>		

### 1.4 STEERING

<b>Type:</b>	Worm and Sector	<b>Make:</b> Toyota
<b>Comments:</b>		

### 1.5 BRAKES

<b>Type:</b>	<b>Front</b>	<b>Rear</b>
	Disc	Drum
<b>Dimensions:</b>	200x10mm	200x30mm
<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>	Cast Iron	
<b>Master cylinder make:</b>		
<b>Adjustable bias</b>		
<b>Servo Fitted</b>		
<b>Comments:</b>		

## SECTION 2 - ENGINE

### 2.1 ENGINE

Make:	Toyota		
Model:	KE11		
No. cylinders:	4	Configuration:	In Line
Cylinder Block-material:	Cast Iron	Four Stroke	
Bore - Original:	75	Max. allowed:	76.5
Stroke - original:	66	Max. allowed:	66
Capacity - original:	1166cc	Max. allowed:	1212cc
Cooling method:	Water		
Identifying marks:			
<b>COMMENTS:</b>			

### 2.2 CYLINDER HEAD

Make:	Toyota				
No. of valves/cylinder-		Inlet:	1	Exhaust:	1
No. of ports total:	8	Inlet:	4	Exhaust:	4
No. of camshafts:	1	Location:	Block	Drive:	Chain
Valve actuation:	1				
Spark plugs/cylinder:					
Identifying marks:					
<b>COMMENTS:</b>					

### 2.3 LUBRICATION

Method:	Wet Sump	Oil tank location:	N/A
Dry sump pump type:		Location:	N/A
Oil cooler standard:	No	Location:	N/A
<b>COMMENTS:</b>			

### 2.4 IGNITION SYSTEM

Type:	Coil & Distributor
Make:	Nippondenso
<b>COMMENTS:</b>	

### 2.5 FUEL SYSTEM

Carburettor: Make:	Aisan	Model: 3K-B D/Dught	Size: 8mm
Size:		Model:	
Fuel injection Make:		Type:	
Supercharged:		Type:	
<b>COMMENTS:</b>			

### SECTION 3 - TRANSMISSION

#### 3.1 CLUTCH

**Make:** Type: Diaphragm Diameter: 183mm  
**No. of Plates:**  
**Actuation:** Mechanical  
**Comments:**

#### 3.2 TRANSMISSION

**Type:** Toyota  
**Make:** Model: Corolla KE11  
**No. forward speeds:** 4 Gearbox location: Behind Engine  
**Gearchange type and location:** Central  
**Case material:** Identifying marks:  
**Comments:**

#### 3.3 FINAL DRIVE

**Make:** Toyota Model: Corolla  
**Wheel drive method:** Rear  
**Ratios:** Various  
**Differential:** Free Type: Hypoid  
**Comments:** LSD Permitted

#### 3.4 TRANSMISSION SHAFTS (EXPOSED)

**Number:** 1 Location: Gearbox to Final drive  
**Description:** Tubular Taishaft  
**Comments:**

#### 3.5 WHEELS & TYRES

<b>Wheel type:</b> Original:	Steel	<b>Material:</b> Original:	Steel
Allowed:	Alloy	Allowed:	Alloy
<b>Fixture method:</b>	Studs	<b>No. studs:</b>	4
	<b>FRONT</b>		<b>REAR</b>
<b>Wheel dia. &amp; rim width</b>			
Original:	4x12		4x12
Allowed:	6x12 or 13		6x12 or 13
<b>Tyre section:</b>			
Original:	145		145
Allowed:			
<b>Aspect ratio - minimum:</b>	60%		60%
<b>Comments:</b>	Model Raced in 1971 on 13 Inch Wheels		

## SECTION 4 - GENERAL

### 4.1 FUEL SYSTEM

Tank Location: Rear Capacity:  
Fuel pump, type and location: Mechanical Make:  
Comments:

### 4.2 ELECTRICAL SYSTEM

Voltage: 12 Alternator fitted:  
Battery Location: Engine Compartment  
Comments:

### 4.3 BODYWORK

Type: Two Door Coupe Material: Steel  
No. of seats: 4 No. doors: 2  
Comments:

### 4.4 DIMENSIONS

Track - Front: 1235mm Rear: 1220mm  
Wheelbase: 2285mm Overall length: 3845mm  
Dry weight: 700 Kg (Approx)  
Comments:

### 4.5 SAFETY EQUIPMENT

Fire extinguisher required  
Seat belt required  
Rollbar required  
Electrical cut off switch required  
Safety fuel tank optional



W.F. (FEB 1971)