



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, the general historic rules, and the specific regulations relative to the subject vehicle Group, as detailed in the current CAMS Manual of Motor Sport.

**Make of Car:** Toyota Corolla 1200                      **Model:** KE 20

**Period of Original Manufacture:** 1970-1974  
Body Styling changes in September 1971  
Grill change in August 1972

**CAMS Historic Group:** Nc

**Date of Issue of this Document:** 8 December 2011



## SECTION 1 - CHASSIS

### 1.1 CHASSIS FRAME

**Description:** Unitary Construction      **Period of Manufacture:** 1970-74  
**Manufacturer:** Toyota  
**Chassis no. from:** KE20 - 000001  
**Chassis no. location:** Firewall  
**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:**  
**Suspension adjustable:** No      **Method:**  
**Comments:** Spring Rates & Ride Height Free. Anti- Sway Bar may be fitted.  
Refer Group Nc regulations for permitted modifications.

### 1.3 REAR SUSPENSION

**Description:** Live Axle  
**Spring medium:** Semi Elliptic Leaf  
**Damper type:** Telescopic      **Adjustable:** Permitted  
**Anti-sway bar:** Not Fitted      **Adjustable:**  
**Suspension adjustable:** No      **Method:**  
**Comments:** Spring Rates & Ride Height free. Anti-Sway Bar may be fitted.  
Refer Group Nc regulations for permitted modifications.

### 1.4 STEERING

**Type:** Worm & Sector      **Make:** Toyota  
**Comments:**

### 1.5 BRAKES

	Front	Rear
<b>Type:</b>	Disc	Drum
<b>Dimensions:</b>	200 x 10mm	200 x 30mm
<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>	Girlock	
<b>Master cylinder make:</b>	Toyota	<b>Type:</b> Tandem
<b>Adjustable bias:</b>	No	
<b>Servo Fitted:</b>	Yes	
<b>Comments:</b>	Dual Master Cylinders permitted. Servo may be rendered inoperative. Components may be replaced with those from another Prod'n. Touring Car produced before 31/12/72. Refer Group Nc regulations for permitted modifications.	

## SECTION 2 - ENGINE

### 2.1 ENGINE

<b>Make:</b>	Toyota	<b>Configuration:</b>	In Line
<b>Model:</b>	3K	<b>Two/Four Stroke:</b>	4 Stroke
<b>No. cylinders:</b>	4	<b>Max. allowed:</b>	76.5mm
<b>Cylinder Block-material:</b>	Cast Iron	<b>Max. allowed:</b>	66mm
<b>Bore - Original:</b>	75mm	<b>Max. allowed:</b>	1213cc
<b>Stroke - original:</b>	66mm		
<b>Capacity - original:</b>	1166cc		
<b>Cooling method:</b>	Water		
<b>Identifying marks:</b>			
<b>Comments:</b>	Refer Group Nc regulations for permitted modifications.		

### 2.2 CYLINDER HEAD

<b>Make:</b>	Toyota	<b>Inlet:</b>	1	<b>Exhaust:</b>	1
<b>No. of valves/cylinder-</b>	2	<b>Inlet:</b>	4	<b>Exhaust:</b>	4
<b>No. of ports total:</b>	8	<b>Location:</b>	Block	<b>Drive:</b>	Chain
<b>No. of camshafts:</b>	1				
<b>Valve actuation:</b>	Pushrod				
<b>Spark plugs/cylinder:</b>	1				
<b>Identifying marks:</b>					
<b>Comments:</b>	Refer Group Nc regulations for permitted modifications.				

### 2.3 LUBRICATION

<b>Method(Wet/Dry Sump):</b>	Wet Sump	<b>Oil tank location:</b>	
<b>Dry sump pump type:</b>	N/A	<b>Location:</b>	
<b>Oil cooler standard:</b>	No	<b>Location:</b>	
<b>Comments:</b>	Oil Cooler may be fitted. Refer Group Nc regulations for permitted modifications.		

### 2.4 IGNITION SYSTEM

<b>Type:</b>	Coil & Distributor
<b>Make:</b>	Nippondenso
<b>Comments:</b>	Refer Group Nc regulations for permitted modifications.

### 2.5 FUEL SYSTEM

<b>Carburettor: Make:</b>	Aisan	<b>Model &amp; Number:</b>	3K-B 28mm
<b>Fuel injection Make:</b>		<b>Type:</b>	
<b>Supercharged(Yes/No):</b>		<b>Type</b>	
<b>Comments:</b>	Carburettor may be replaced by carburettor's of a make /type available in the period. Multiple carburettors may be fitted in the ratio of one choke per cylinder. Refer Group Nc regulations for permitted modifications.		

## SECTION 3 - TRANSMISSION

### 3.1 CLUTCH

**Make:** Toyota    **Type:** Diaphragm    **Diameter:** 183mm  
**No. of Plates:** 1  
**Actuation:** Mechanical  
**Comments:** Clutch & method of actuation free. Refer Group Nc regulations for permitted modifications.

### 3.2 TRANSMISSION

**Type:** Four Speed Synchromesh    **Model:** K40  
**Make:** Toyota  
**No. forward speeds:** 4    **Gearbox location:** Behind Engine  
**Gearchange type and location:** Floor Remote  
**Case material:** Alloy    **Identifying marks:**  
**Comments:** Refer Group Nc regulations for permitted modifications. Ratios free.

### 3.3 FINAL DRIVE

**Make:** Toyota or Borg Warner in    **Model:** Corolla  
Australian built KE20  
**F/R/All Wheel Drive:** Rear  
**Ratios:** Various  
**Differential, Make:** Toyota    **Type:** Hypoid Bevel  
**Comments:** Refer Group Nc regulations for permitted modifications. Limited Slip differential permitted.

### 3.4 TRANSMISSION SHAFTS (EXPOSED)

**Number:** 1    **Location:** Gearbox to Final Drive  
**Description:** Tailshaft with Universal Joints  
**Comments:** Refer Group Nc regulations for permitted modifications.

### 3.5 WHEELS & TYRES

**Wheel type - Original:** Pressed Steel    **Material - Original:** Steel  
**Allowed:** Steel or Period Alloy    **Allowed:** Steel or Alloy  
**Fixture method:** Bolt On    **No. studs:** 4

	FRONT	REAR
<b>Wheel dia. &amp; rim width -</b>		
<b>Original:</b>	4 x 12 or 13	4 x 12 or 13
<b>Allowed :</b>	6 x 12 or 13	6 x 12 or 13

<b>Tyre Section -</b>		
<b>Original:</b>	155	155
<b>Allowed :</b>		

<b>Aspect ratio - minimum:</b>	60%	60%
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**Comments:** Wheels/tyres confined to dimensions which fit within wheel arches. Period alloy wheels permitted. Refer Group Nc regulations for permitted modifications.

