



5TH CATEGORY - HISTORIC RACING  
**GROUP N**  
 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 Motorsport Australia Manual.

<b>Make of Car:</b>	Toyota	<b>Model:</b>	Corolla – KE11
<b>Period of Original Manufacture:</b>	1969 – 1970		
<b>Motorsport Australia Historic Group:</b>	Nc		
<b>Date of Issue of this Document:</b>	1 January 2024		



Refer to The *Manual*, Historic Appendix, Vehicle Eligibility, General Requirements & Historic Touring Cars Group N Regulations for permitted modifications.

***Update Log***

1/1/2024	Inclusion of kerb and minimum racing weights

**SECTION 1 - CHASSIS**

**1.1. CHASSIS**

<b>Description:</b>	Unitary construction
<b>Period of Manufacture:</b>	1969 – 1970
<b>Manufacturer:</b>	Toyota
<b>Chassis Number From:</b>	KE-11
<b>Chassis Number location:</b>	Firewall
<b>Material:</b>	Steel
<b>Comments</b>	None

**1.2. FRONT SUSPENSION**

<b>Description:</b>	Independent - by MacPherson strut, with lower wishbone with transverse leaf spring and coil spring		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Telescopic – internal	<b>Adjustable:</b>	No
<b>Anti-sway bar:</b>	No	<b>Adjustable:</b>	N/A
<b>Suspension adjustable:</b>	Yes	<b>Method:</b>	Caster, camber and toe
<b>Comments:</b>	Refer to Appendix A		

**1.3. REAR SUSPENSION**

<b>Description:</b>	Live rear axle		
<b>Spring Medium:</b>	Semi elliptical leaf		
<b>Damper Type:</b>	Telescopic	<b>Adjustable:</b>	No
<b>Anti-sway bar:</b>	No	<b>Adjustable:</b>	N/A
<b>Suspension adjustable:</b>	No	<b>Method:</b>	N/A
<b>Comments:</b>	Refer to Appendix A		

**1.4. STEERING**

<b>Type:</b>	Worm and sector	<b>Make:</b>	Toyota
<b>Comments</b>	None		

**1.5. BRAKES**

	<b>Front</b>	<b>Rear</b>
<b>Type:</b>	Disc, solid	Drum
<b>Dimensions:</b>	200 mm x 10 mm	200 mm x 30 mm
<b>Material of drum/disc:</b>	Cast iron	Cast iron
<b>No. cylinders/pots per wheel:</b>	Two	One
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper make:</b>	Toyota	
<b>Caliper type:</b>	Sliding	
<b>Material:</b>	Cast iron	
<b>Master cylinder make:</b>	Toyota	
<b>Type:</b>	Dual	
<b>Adjustable bias:</b>	No	
<b>Servo Fitted:</b>	Yes	
<b>Comments:</b>	None	

## SECTION 2 - ENGINE

### 2.1. ENGINE

<b>Make:</b>	Toyota		
<b>Model:</b>	3K		
<b>No. cylinders:</b>	Four	<b>Configuration:</b>	In line
<b>Cylinder Block-material:</b>	Cast iron	<b>Two/Four Stroke:</b>	Four
<b>Bore - Original:</b>	75 mm	<b>Max allowed:</b>	76.5 mm
<b>Stroke - original:</b>	66 mm	<b>Max allowed:</b>	66 mm
<b>Capacity - original:</b>	1166 cc	<b>Max allowed:</b>	1213 cc
<b>Identifying marks:</b>	3k*****		
<b>Cooling method:</b>	Liquid		
<b>Comments:</b>	None		

### 2.2. CYLINDER HEAD

<b>Make:</b>	Toyota		
<b>No. of valves/cylinder:</b>	Two	<b>Inlet:</b>	One
		<b>Exhaust:</b>	One
<b>No. of ports total:</b>	Eight	<b>Inlet:</b>	Four
		<b>Exhaust:</b>	Four
<b>No. of camshafts:</b>	One	<b>Location:</b>	Block
		<b>Drive:</b>	Chain
<b>Valve actuation:</b>	Pushrod and rocker		
<b>Spark plugs/cylinder:</b>	One		
<b>Identifying marks:</b>	N/A		
<b>Comments:</b>	None		

### 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>	N/A
<b>Oil cooler standard:</b>	No	<b>Location:</b>	N/A
<b>Comments:</b>	None		

### 2.4. IGNITION SYSTEM

<b>Type:</b>	Points, distributor & coil		
<b>Make:</b>	Nippondenso		
<b>Comments:</b>	Breakerless electronic ignition permitted		

### 2.5. FUEL SYSTEM

<b>Carburettor Make:</b>	Aisan	<b>Model:</b>	3K-B
<b>Carburettor Number:</b>	One		
<b>Size:</b>	28 mm		
<b>Fuel injection Make:</b>	N/A	<b>Type:</b>	N/A
<b>Supercharged:</b>	No	<b>Type:</b>	N/A
<b>Comments:</b>	None		

**SECTION 3 - TRANSMISSION**

**3.1. CLUTCH**

<b>Make:</b>	Toyota
<b>Type:</b>	Diaphragm
<b>Diameter:</b>	183 mm
<b>No. of Plates:</b>	One
<b>Actuation:</b>	Mechanical
<b>Comments:</b>	None

**3.2. TRANSMISSION**

<b>Type:</b>	Syncromesh
<b>Make:</b>	Toyota
<b>Gearbox location:</b>	Behind engine
<b>No. forward speeds:</b>	Four
<b>Gearchange type and location:</b>	H pattern floor shift
<b>Case material:</b>	Alloy
<b>Identifying marks:</b>	N/A
<b>Comments:</b>	None

**3.3. FINAL DRIVE**

<b>Make:</b>	Toyota	<b>Model:</b>	KE
<b>Type:</b>	Hypoid gear		
<b>Ratios:</b>	4.222:1, 4.444:1		
<b>Differential type:</b>	Bevel gear		
<b>Comments:</b>	None		

**3.4. TRANSMISSION SHAFTS (EXPOSED)**

<b>Number:</b>	One
<b>Location:</b>	Gearbox to final drive
<b>Description:</b>	Open tail shaft with twin uni joints
<b>Comments:</b>	none

**3.5. WHEELS & TYRES**

<b>Wheel type - Original:</b>	Pressed disc	<b>Material - Original:</b>	Steel
<b>Wheel type - Allowed:</b>	Steel Alloy (period style)	<b>Material - Allowed:</b>	Steel Alloy
<b>Fixture method:</b>	Bolt on	<b>No. studs:</b>	Four
<b>Wheel dia. &amp; rim width</b>	<b>FRONT</b>		<b>REAR</b>
<b>Original:</b>	4" x 12" 4" x 13"		4" x 12" 4" x 13"
<b>Allowed</b>	6" x 12" 6" x 13"		6" x 12" 6" x 13"
<b>Tyre Section:</b>			
<b>Allowed:</b>	Refer approved tyre list.		
<b>Aspect ratio - minimum:</b>	60% minimum aspect ratio.		
<b>Comments:</b>	None		

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

<b>Tank Location:</b>	Rear	<b>Capacity:</b>	40 litres
<b>Fuel pump, type:</b>	Mechanical on block	<b>Make:</b>	Toyota
<b>Comments:</b>	None		

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	12	<b>Alternator fitted:</b>	Alternator
<b>Battery Location:</b>	Engine bay		
<b>Comments:</b>	None		

### 4.3. BODYWORK

<b>Type:</b>	Sedan	<b>Material:</b>	Steel
<b>No. of seats:</b>	Four	<b>No. doors:</b>	Two
<b>Comments:</b>	None		

### 4.4. DIMENSIONS

<b>Track - Front:</b>	1235 mm	<b>Rear:</b>	1220 mm
<b>Wheelbase:</b>	2285 mm	<b>Overall length:</b>	3845 mm
<b>Approved Manufacturer's kerb weight:</b>	700 kgs		
<b>Approved minimum racing weight:</b>	679 kgs		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
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**Appendix A**

**Suspension**

**Front**

Spring height adjustment permitted.

**Rear**

Spring height adjustment permitted.