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.

Make of Car:	Toyota	**Model:**	Corolla – KE20
Period of Original Manufacture:	1970 - 1974		
Motorsport Australia Historic Group:	Nc		
Date of Issue of this Document:	1 January 2024		
Comments	Body Styling changes in September 1971 Grill change in August 1972		

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

Description:	Unitary construction
Period of Manufacture:	1969 – 1970
Manufacturer:	Toyota
Chassis Number From:	KE-20 - 000001
Chassis Number location:	Firewall
Material:	Steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent - by MacPherson strut, lower control arm with castor bar			
Spring Medium:	Coil			
Damper Type:	Telescopic – internal		**Adjustable:**	No
Anti-sway bar:	Fitted		**Adjustable:**	N/A
Suspension adjustable:	Yes	**Method:**	Caster, camber and toe	
Comments:	Refer to Appendix A			

1.3. REAR SUSPENSION

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

1.4. STEERING

Type:	Worm and sector	**Make:**	Toyota
Comments	None		

1.5. BRAKES

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

SECTION 2 - ENGINE

2.1. ENGINE

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

2.2. CYLINDER HEAD

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

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:	None		

2.4. IGNITION SYSTEM

Type:	Points, distributor & coil
Make:	Nippondenso
Comments	Breakerless electronic ignition permitted

2.5. FUEL SYSTEM

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

3.1. CLUTCH

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

3.2. TRANSMISSION

Type:	Syncromesh
Make:	Toyota
Gearbox location:	Behind engine
No. forward speeds:	Four
Gearchange type and location:	H pattern floor shift
Case material:	Alloy
Identifying marks:	N/A
Comments:	Model K40

3.3. FINAL DRIVE

Make:	Toyota Borg Warner *	**Model:**	KE
Type:	Hypoid gear		
Ratios:	Various		
Differential type:	Bevel gear		
Comments:	* In Australian built KE20		

3.4. TRANSMISSION SHAFTS (EXPOSED)

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

3.5. WHEELS & TYRES

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

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SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Rear	**Capacity:**	36 litres
Fuel pump, type:	Mechanical on block	**Make:**	Toyota
Comments:	None		

4.2. ELECTRICAL SYSTEM

Voltage:	12	**Alternator fitted:**	Alternator
Battery Location:	Engine bay		
Comments:	None		

4.3. BODYWORK

Type:	Coupe	**Material:**	Steel
No. of seats:	Flour	**No. doors:**	Two
Comments:	September 1971: new grille, turn signal lights, and tail lights August 1972: A further facelift was done. 		

4.4. DIMENSIONS

Track - Front:	1255 mm	**Rear:**	1245 mm
Wheelbase:	2334 mm	**Overall length:**	3855 mm
Approved Manufacturer's kerb weight:	700 kgs		
Approved minimum racing weight:	679 kgs		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix A

Suspension

Front

Spring height adjustment permitted.

Rear

Spring height adjustment permitted.