

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:	Holden Torana	Model:	LJ GTR-XU1
Period of Original Manufacture:	1/1972 – 1973		
Motorsport Australia Historic Group:	Nc		
Date of Issue of this Document:	1 January 2024		



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

Update Log

	opaate 20g
June 2018	Ian Moodie Cylinder Head permitted
1/1/2024	Inclusion of kerb and minimum racing weights

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Unitary construction			
Period of Manufacture:	1/1972 – 1973			
Manufacturer:	Holden			
Chassis Number From:	LJ00001S*			
VIN:	82911JH100001			
Chassis Number location:	Passenger side Inner front guard			
Material:	Steel			
Comments	VIN - 82911 prefix indicates that it is a GTR, J is for LJ and H1 is the plant			
	code then it is the sequence number.			

1.2. FRONT SUSPENSION

Description:	Double wish	Double wishbone			
Spring Medium:	Coil				
Damper Type:	Telescopic	Telescopic Adjustable: No			
Anti-sway bar:	Fitted	Fitted		No	
Suspension adjustable:	Yes	Method:	Caster, camb	er and toe	
Comments:	Refer to App	Refer to Appendix A			

1.3. REAR SUSPENSION

Description:	Live axle wit	Live axle with trailing arms				
Spring Medium:	Coil	Coil				
Damper Type:	Telescopic	Telescopic Adjustable: No				
Anti-sway bar:	No	No		N/A		
Suspension adjustable:	No	No Method:				
Comments:	Refer to App	Refer to Appendix A				

1.4. STEERING

Type:	Rack and pinion	Make:	GMH
Comments	None		

1.5. BRAKES

	Front	Rear		
Type:	Disc, solid	Drum		
Dimensions:	254 mm x 15 mm	228 mm diameter		
Material of drum/disc:	Cast iron	Cast iron		
No. cylinders/pots per wheel:	Two	One		
Actuation:	Hydraulic	Hydraulic		
Caliper make:	Girlock			
Caliper type:	Split			
Material:	Cast iron			
Master cylinder make:	PBR			
Type:	Tandem			
Adjustable bias:	No			
Servo Fitted:	Yes			
Comments:	None			

SECTION 2 - ENGINE

2.1. ENGINE

Make:	GMH					
Model:	Red 202	Red 202				
No. cylinders:	Six	Six Configuration: In-line				
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four			
Bore - Original:	92.07 mm	Max allowed:	93.57 mm			
Stroke - original:	82.55 mm	82.55 mm Max allowed: 82.55 mm				
Capacity - original:	3298 cc	Max allowed:	3406 cc			
Identifying marks:	The engine number is on the	The engine number is on the engine boss, right hand side of the engine.				
	JP1001 or Q1001					
Cooling method:	Liquid					
Comments:	The later model 3.3 block is	allowed.				

2.2. CYLINDER HEAD

Make:	GMH				
No. of valves/cylinder:	Two	Inlet:	One	Exhaust:	One
No. of ports total:	Nine	Inlet:	Three	Exhaust:	Six
No. of camshafts:	One	Location:	Block	Drive:	Gear
Valve actuation:	Pushrod	and rocker			
Spark plugs/cylinder:	One				
Identifying marks:	N/A				
Comments:	stronged be used The lan	r springs. Any		ınded shoulder	ith larger valves & cylinder head may is allowed.

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:	Delco Remy	
Comments	Breakerless electronic ignition permitted	

2.5. FUEL SYSTEM

Carburettor Make:	Zenith	Model:	175 CD - 25	
	Stromberg			
Carburettor Number:	Three			
Size:	1.75 inch			
Fuel injection Make:	N/A	Type:	N/A	
Supercharged:	No	Type:	N/A	
Comments:	None			

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	GMH
Type:	Diaphragm
Diameter:	219 mm
No. of Plates:	One
Actuation:	Mechanical
Comments:	None

3.2. TRANSMISSION

Type:	Synchromesh
Make:	GMH M21
Gearbox location:	Behind engine
No. forward speeds:	Four
Gearchange type and location:	H pattern floor mounted
Case material:	Cast iron
Identifying marks:	N/A
Comments:	None

3.3. FINAL DRIVE

Make:	GMH	Model:	N/A
Type:	N/A		
Ratios:	Various		
Differential type:	Free/Open		
Comments:	None		

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
	Alloy			Alloy
Wheel type - Allowed:	Alloy (period style)	Material - Allowed:		Alloy (period style)
Fixture method:	Studs	No. studs:		Five
Wheel dia. & rim width	FRONT		REAR	
Original:	5.5" x 13"	5.5" x 13"		5.5" x 13"
	6" x 13"	6" x 13"		
Allowed	7" x 13" 7" x 13"			
Tyre Section:				
Allowed:	Refer approved tyre list.			
Aspect ratio - minimum:	60% minimum aspect ratio.			
Comments:	None			

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Boot	Capacity:	77 litres
Fuel pump, type:	Mechanical, engine block	Make:	AC
Comments:	Two Torana lower fuel tank capacity. An alternate fille strongly recommended as f through the standard filler.	r mounted through the uel surge under acceler	Gauge hole should be

4.2. ELECTRICAL SYSTEM

Voltage:	12	Alternator fitted:	Alternator
Battery Location:	Engine compartment		
Comments:	None		

4.3. BODYWORK

Type:	Closed touring	Material:	Steel
No. of seats:	Four	No. doors:	Two
Comments:	See Appendix B.		

4.4. DIMENSIONS

Track - Front:	1372 mm	Rear:	1323 mm
Wheelbase:	2540 mm	Overall length:	4386 mm
Approved Manufacturer's	1048 kgs		
kerb weight:			
Approved minimum racing	1022 kgs		
weight:			
Comments:	Front track varied with fitment of Globe Sprint master wheels and spacers		
	used in late 1972.		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix A

Suspension

Front

Spring height adjustment permitted.

Rear

Spring height adjustment permitted.

Alternate Cylinder Head

Ian Moodie Cylinder head

- The Ian Moodie XU1 Cylinder Head casting No 2815843 is allowed.
- The cylinder head may be modified as permitted in the Group N regulations.
- The Ian Moodie Cylinder head requires the use of a MSD Soft Touch rev limiter Part No 8728 with a 7500 RPM limit. The limiter will be subject to testing at race meetings. The limiter will be located in an easily accessible position within the engine bay.

Appendix B

- Metal front spoiler & fiberglass rear spoiler as per LC Torana XU1.
- Dash panel revised & crash pad straightened out.
- Collapsible steering column & lock fitted with ignition key on steering column.
- Floor console around gear stick.
- High back seats with adjustable head restraints fitted.