

# 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:** Holden Torana **Model:** LJ GTR XUI

**Period of Original Manufacture:** 1/1972 - 1973

**CAMS Historic Group:** Nc

**Date of Issue of this Document:**

**Updated:** 10<sup>th</sup> March 2009



## SECTION 1 - CHASSIS

### 1.1 CHASSIS FRAME

<b>Description:</b>	Unitary Construction	<b>Period of Manufacture:</b>
<b>Manufacturer:</b>	GMH	1/1972-1973
<b>Chassis no. from:</b>	LJ00001S* (similar to LC)	
<b>Chassis no. location:</b>	NS Inner Guard	
<b>Material:</b>	Steel	
<b>Comments:</b>	VIN for LJ similar to LC.	

### 1.2 FRONT SUSPENSION

<b>Description:</b>	Double Wishbone	
<b>Spring medium:</b>	Coil Over Damper	
<b>Damper Type:</b>	Double Acting Hydraulic Telescopic	<b>Adjustable:</b> No
<b>Anti-sway bar:</b>	Fitted	<b>Adjustable:</b> No
<b>Suspension adjustable:</b>	No	<b>Method:</b> N/A
<b>Comments:</b>		

### 1.3 REAR SUSPENSION

<b>Description:</b>	Live Axle - Trailing Arms	
<b>Spring medium:</b>	Coil	
<b>Damper type:</b>	Double Acting Hydraulic Telescopic	<b>Adjustable:</b> No
<b>Anti-sway bar:</b>	Not Fitted	<b>Adjustable:</b> No
<b>Suspension adjustable:</b>	No	<b>Method:</b> N/A
<b>Comments:</b>		

### 1.4 STEERING

<b>Type:</b>	Rack & Pinion	<b>Make:</b>	GMH
<b>Comments:</b>			

### 1.5 BRAKES

<b>Type:</b>	<b>Front</b>	<b>Rear</b>
<b>Dimensions:</b>	Disc	Drum
<b>Material of drum/disc</b>	254 mm x 15 mm	228 mm
<b>No. cylinders/pots per wheel:</b>	Cast Iron	Cast Iron
<b>Actuation:</b>	2	1
<b>Caliper: Make, Material, Type:</b>	Hydraulic	Hydraulic
<b>Master cylinder make:</b>	Cast Iron - Girlock	
<b>Adjustable bias</b>	<b>Type:</b>	Tandem
<b>Servo Fitted</b>	No	
<b>Comments:</b>	Yes	

## SECTION 2 - ENGINE

### 2.1 ENGINE

Make:	GMH		
Model:	202		
No. cylinders:	6	Configuration:	In Line
Cylinder Block-material:	Cast Iron	Four Stroke	
Bore - Original:	92.07 mm	Max. allowed:	93.57 mm
Stroke - original:	82.55 mm	Max. allowed:	82.55 mm
Capacity - original:	3310 cc	Max. allowed:	3404 cc
Cooling method:	Water		
Identifying marks:	JP1001 or Q1001		
Comments:	Some factory competition blocks supplied with Q prefix		

### 2.2 CYLINDER HEAD

Make:	Holden		
No. of valves/cylinder-		Inlet:	1
No. of ports total:	9	Inlet:	3
No. of camshafts:	1	Location:	Block
Valve actuation:	Pushrod	Exhaust:	1
Spark plugs/cylinder:	1	Exhaust:	6
Identifying marks:		Drive:	Gear
Comments:	Following on from the LC with the 173cu in head with larger valves & stronger springs. <u>Any Holden 9 port rounded shoulder cylinder head may be used.</u>		

### 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:	External oil line to main bearings fitted in some early versions		

### 2.4 IGNITION

Type:	Coil & Distributor
Make:	Delco Remy
Comments:	<u>Refer to specific group Regulations</u>

### 2.5 FUEL FEED

Carburettor: Make:	Zenith Stromberg	Model:	175 CD-2S	No:	3	Size:	
Fuel injection Make:	N/A	Type:					
Supercharged:		Type:					
Make:							
Comments:							

### **SECTION 3 - TRANSMISSION**

### 3.1 CLUTCH

<b>Make:</b>	Holden	<b>Type:</b>	Diaphragm	<b>Diameter:</b>	219 mm
<b>No. of Plates:</b>	1				
<b>Actuation:</b>	Mechanical				
<b>Comments</b>					

### 3.2 TRANSMISSION

<b>Type:</b>	Holden		
<b>Make:</b>	<b>Model:</b>	M20	
<b>No. forward speeds:</b>	4		<b>Gearbox location:</b> Behind Engine
<b>Gearchange type and location:</b>			Floor
<b>Case material:</b>	Cast Iron		<b>Identifying marks:</b>
<b>Comments:</b>			

### 3.3 FINAL DRIVE

<b>Make:</b>	GMH	<b>Model:</b>	
<b>Wheel drive method:</b>		Rear	
<b>Ratios:</b>		Various	
<b>Differential:</b>		Bevel	
<b>Comments:</b>			<b>Type:</b> Hypoid
	Spin Resistant or Locked Differential permitted.		

### 3.4 TRANSMISSION SHAFTS (EXPOSED)

<b>Number:</b>	1	<b>Location:</b>	Gearbox to Final Drive
<b>Description:</b>	Tubular Tailshaft with Hardy Spicer Universal Joints		
<b>Comments:</b>			

### 3.5 WHEELS & TYRES

<b>Wheel type:</b>	<b>Original:</b>	Steel or alloy	<b>Material:</b>	<b>Original:</b>	
	<b>Allowed:</b>	Alloy		<b>Allowed:</b>	
<b>Fixture method:</b>		Bolt on	<b>No. studs:</b>	5 Studs	
		<b>FRONT</b>		<b>REAR</b>	
<b>Wheel dia. &amp; rim width</b>					
	<b>Original:</b>	5.5 or 6 x 13		5.5 or 6 x 13	
	<b>Allowed:</b>	7 x 13		7 x 13	
<b>Tyre section:</b>					
	<b>Original:</b>				
	<b>Allowed:</b>				
<b>Aspect ratio - minimum:</b>		60%		60%	
<b>Comments:</b>	Globe 'Sprintmaster' alloy wheels with spacers on the front discs to enable the wheel to clear the tie-rod ends were used in the latter part of 1972				

## **SECTION 4 - GENERAL**

### **4.1 FUEL SYSTEM**

**Tank Location:** Rear **Capacity:** 77 Litres  
**Fuel pump, type and location:** Mechanical **Make:** AC  
**Comments:** Refer to LC Specification Sheets. Similar comments re filler neck apply.

### **4.2 ELECTRICAL SYSTEM**

**Voltage:** 12 **Alternator fitted:** Yes  
**Battery Location:** Engine Compartment  
**Comments:** Locate in boot if Webers are fitted.

### **4.3 BODYWORK**

**Type:** 2 Door Coupe **Material:** Steel  
**No. of seats:** 4 **No. doors:** 2  
**Comments:** Metal front spoiler & rear spoiler as per LC. 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.

### **4.4 DIMENSIONS**

**Track - Front:** 1372 mm **Rear:** 1323 mm  
**Wheelbase:** 2540 mm **Overall length:** 4386 mm  
**Dry weight:** 1048 kg  
**Comments:** Front track varied with fitment of Sprintmaster wheels.

### **4.5 SAFETY EQUIPMENT**

**Fire extinguisher required** **Type fitted and location:**  
**Seat belt required** Type and make fitted:  
**Rollbar optional/required**  
**Electrical cut off switch required**  
**Safety fuel tank optional/required**