

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 a 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
Period of Original Manufacture:	1966 - 1967
Date of issue of this document:	August 2019

Model: HR



Refer to CAMS Manual of Motor Sport, Vehicle Eligibility, Historic Touring Cars, General Requirements & Nb Regulations for permitted modifications.

## SECTION 1 - CHASSIS

## 1.1 CHASSIS FRAME

Period of Manufacture: 1966 - 1967 Chassis no. from: HR?????? Material: Steel

**Description:** Unibody four door sedan Manufacturer: General Motors Holden **Chassis no. location:** Plate on centre of fire wall

#### **1.2 FRONT SUSPENSION**

Description:	Independent with upper & lower wishbones			
Spring Medium:	Coil			
Damper Type:	Telescopi	c	Adjustable:	No
Anti-sway bar:	Fitted		Adjustable:	No
Suspension adjustable:	Yes Method: Caster & camber by shims		nims	

## **1.3 REAR SUSPENSION**

Description:	Live rear	axle		
Spring medium:	Leaf			
Damper type:	Telescopic		Adjustable:	No
Anti-sway bar:	No			
Suspension adjustable:	Yes	Method:	Spring height	

# 1.4 STEERING

**Type:** Recirculating ball Make: Holden

# 1.5 BRAKES

	Front		Rear
Туре:	Disc		Drum
Dimensions:	254 x 9.53 mm		229 x 44.4 mm
Material:	Cast iron		Cast iron
No. cylinders/pots per wheel:	Two		One
Actuation:	Hydraulic		Hydraulic
Master cylinder make:	Girlock / PBR	Type:	Single
Adjustable bias:	No		
Servo Fitted:	Yes		

## **SECTION 2 - ENGINE**

#### 2.1 ENGINE

	2.1 LINGINL		
Make:	Holden		
Model:	161 or 186		
No. cylinders:	Six	<b>Configuration:</b>	In Line
Cylinder block material:	Cast iron	Two/Four Stroke:	Four
Bore - Original:	161 – 85.72 mm 186 – 92.075 mm	Max. allowed:	161 – 87.225 mm 186 – 93.575 mm
Stroke - original:	76.2 mm		
Capacity - original:	161 – 2639 cc 186 – 3044 cc	Max. allowed:	161 – 2732 cc 186 – 3144 cc
Cooling method:	Water		
Identifying marks:	N/A		

# 2.2 CYLINDER HEAD

Make:	Holden				
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 8	& rockers			
Spark plugs/cylinder:	One				

#### **Comments:**

For the 186 Red motor the Ian Moodie XU1 Cylinder Head casting No 2815843 is allowed. The cylinder head may be modified as permitted in the Group N regulations. When install you must include an MSD Soft Touch rev limiter Part No 8728 that controls the engine to a maximum of 7500 RPM.

This rev limiter must be mounted in a visible, easily accessible position in the engine bay. The operation of this MSD Soft Touch rev limiter will be subject to tests at race meetings.

#### 2.3 LUBRICATION

Method: Wet sump **Oil cooler standard:** No

#### 2.4 IGNITION SYSTEM

**Type:** Coil & distributor Make: Bosch or Lucas

#### 2.5 FUEL SYSTEM

Carburettor Make:	Stromberg	Model:	BXUV – 2 or BXV – 2
	Bendix		BXV
Carburettor number:	One	Size:	N/A

# **SECTION 3 - TRANSMISSION**

## 3.1 CLUTCH

Make:	Holden		
Type:	Diaphragm		
Diameter:	219 mm	No. of Plates:	One
Actuation:	Hydraulic		

#### 3.2 TRANSMISSION

# **Type:** Synchromesh

No. forward speeds: Gear change type and location: Case material: Cast iron

Make: Opel Four Gearbox location: Behind engine Remote lever, Floor Identifying marks: **Comments:** 

Holden three speed was optional

## 3.3 FINAL DRIVE

Make:	Holden	Model:	EH
Туре:	Live axle, banjo type, semi floating	I	
Wheel drive method:	Rear		
Ratios:	3.36:1 and 3.55:1		
Differential type:	Open / free		

# 3.4 TRANSMISSION SHAFTS (EXPOSED)

Number: One

**Description:** One piece open drive shaft with two Hardy Spicer type U joints

## 3.5 WHEELS & TYRES

Wheel type - Original:	Disc	Material - Original:	Steel
Allowed:	Cast	Allowed:	Alloy
Fixture method:	Studs	No. studs:	Five
Wheel dia. & rim width:	FRONT	REAR	
Original:	13 x 4.5 inch	13 x 4.5	inch
Allowed:	13 x 7 inch	13 x 7 ir	nch
Tyres allowed:	60% minimum aspect ratio, refer approved tyre list.		

# SECTION 4 - GENERAL

### 4.1 FUEL SYSTEM

Tank Location:	Boot	Capacity:	51 litres
Fuel pump type and location:	Mechanical, engine	Make:	AC

## 4.2 ELECTRICAL SYSTEM

Voltage:	12	Alternator:	Fitted
<b>Battery Location:</b>	Engine compartment		

## 4.3 BODYWORK

Type:	Closed	Material:	Steel
No. of seats:	Five	No. doors:	Four

## 4.4 DIMENSIONS

Track - Front:	1394 mm	Rear:	1394 mm
Wheelbase:	2963 mm	Overall length:	4597 mm
Dry weight:	1182 kg		

# 4.5 SAFETY EQUIPMENT

Refer applicable Group Regulations