



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:	Hillman	Model:	Arrow Hunter Hunter GT
Period of Original Manufacture:	1968 – 1970		
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

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

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Unitary construction
Period of Manufacture:	1968-1970
Manufacturer:	Chrysler Australia
Chassis Number From:	HB1 - M - 41 #chassis number – Hunter (HB) HC3 – M – 41 #chassis number - Hunter (HC) Safari HC3 – H – 41 #chassis number - Hunter (HC) - Royal HC7 – P – 41 #chassis number – Hunter GT
Chassis Number location:	Stamped on the top near the strut support on the LH side of the mud-guard
Material:	Steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent - by Macpherson strut		
Spring Medium:	Coil		
Damper Type:	Telescopic within Macpherson strut	Adjustable:	No
Anti-sway bar:	Fitted	Adjustable:	No
Suspension adjustable:	No	Method:	N/A
Comments:	None		

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:	None		

1.4. STEERING

Type:	Recirculating ball	Make:	Burman
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc	Drum
Dimensions:	244 mm x 8.8 mm	229 mm x 44.4 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	Two	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	Girling	
Caliper type:	Fixed	
Material:	Cast iron	
Master cylinder make:	Girling	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	No Yes on GT model only	
Comments:	None	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Rootes		
Model:	Hillman		
No. cylinders:	Four	Configuration:	In-line
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore - Original:	81.53 mm	Max allowed:	83 mm
Stroke - original:	82.55 mm	Max allowed:	82.55 mm
Capacity - original:	1725 cc	Max allowed:	1800 cc
Identifying marks:	N/A		
Cooling method:	Liquid		
Comments:	None		

2.2. CYLINDER HEAD

Make:	Hillman		
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, coil and distributor		
Make:	Lucas/Autolite		
Comments	Breakerless electronic ignition permitted		

2.5. FUEL SYSTEM

Carburettor Make:	Stromberg	Model:	150 CDS
Carburettor Number:	One or Two		
Size:	Various		
Fuel injection Make:	N/A	Type:	N/A
Supercharged:	No	Type:	N/A
Comments:	None		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Borg and Beck
Type:	Dry Plate
Diameter:	190.5 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	None

3.2. TRANSMISSION

Type:	Synchromesh or Auto
Make:	Rootes
Gearbox location:	Behind engine
No. forward speeds:	Four
Gearchange type and location:	Floor remote
Case material:	Cast iron with alloy bell housing
Identifying marks:	HB1-M-41, HB-M-45, HC3-M-45
Comments:	None

3.3. FINAL DRIVE

Make:	Rootes	Model:	Banjo
Type:	Live axle		
Ratios:	Various		
Differential type:	Semi floating hypoid		
Comments:	None		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Tubular and Open tail shaft with twin uni joints.
Comments:	One

3.1. 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:	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 floor	Capacity:	46 litres
Fuel pump, type:	Mechanical on cylinder block	Make:	AC
Comments:	None		

4.2. ELECTRICAL SYSTEM

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

4.3. BODYWORK

Type:	Sedan	Material:	Steel
No. of seats:	Five	No. doors:	Four
Comments:	Hillman Arrow Hillman Hunter GT	Round headlights, Console fitted Rectangle headlights, Woodgrain Dashboard with Speedometer, Tachometer, Oil Pressure gauge, Temperature gauge, Fuel gauge, Console fitted.	

4.4. DIMENSIONS

Track - Front:	1320.8 mm	Rear:	1320.8 mm
Wheelbase:	2501.9 mm	Overall length:	4292.6 mm
Approved Manufacturer's kerb weight:	958 kgs		
Approved minimum racing weight:	934 kgs		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix