



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:	Ford	Model:	Galaxie 'R'
Period of Original Manufacture:	1963 – 1964		
Motorsport Australia Historic Group:	Nb		
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:	1963 – 1964
Manufacturer:	Ford Motor Company
Chassis Number From:	RW66R
Chassis Number location:	Top of RHS firewall
Material:	Steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent - upper wishbone, lower control arm & castor rod		
Spring Medium:	Coil		
Damper Type:	Telescopic	Adjustable:	No
Anti-sway bar:	Yes	Adjustable:	No
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:	No
Suspension adjustable:	No	Method:	N/A
Comments:	Refer to Appendix A		

1.4. STEERING

Type:	Recirculating ball	Make:	Ford
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc, solid	Drum
Dimensions:	276 mm x 32 mm	280 mm x 64 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	Four	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	Ford	
Caliper type:	Fixed	
Material:	Cast iron	
Master cylinder make:	Ford	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:	None	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Ford		
Model:	FE427 – side oil FE427 – centre oil		
No. cylinders:	Eight	Configuration:	Ve
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore - Original:	107.5 mm	Max allowed:	109 mm
Stroke - original:	98.0 mm	Max allowed:	96.0 mm
Capacity - original:	6966 cc	Max allowed:	7162 cc
Identifying marks:	Casting number is on the right (passenger) side of the block, in the front. FE (330-428 SCJ). Note: nearly all FE blocks have 352 cast on the front of them. Casting number starts with C3AE, C4AE, or C5AE.		
Cooling method:	Liquid		
Comments:	Either the 1963 FE 427 centre oiler engine block or the 1965 side oiler engine block (C5AE) may be used		

2.2. CYLINDER HEAD

Make:	Ford FE		
No. of valves/cylinder:	Two	Inlet: One	Exhaust: One
No. of ports total:	Sixteen	Inlet: Eight	Exhaust: Eight
No. of camshafts:	One	Location: Block	Drive: Chain
Valve actuation:	Pushrod and rocker		
Spark plugs/cylinder:	One		
Identifying marks:	Casting number is on the top of the cylinder head. The valve covers must be removed to find the number. Star Casting number starts with C3AE, C4AE, or C5AE.		
Comments:	Either the 1963 FE 427 centre oiler engine block heads or the 1965 side oiler engine block (C5AE) heads may be used		

2.3. LUBRICATION

Method:	Wet sump	Oil tank location:	N/A
Dry sump pump type:	N/A	Location:	N/A
Oil cooler standard:	Yes	Location:	Front of radiator
Comments:			

2.4. IGNITION SYSTEM

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

2.5. FUEL SYSTEM

Carburettor Make:	Holley	Model:	4 barrel
Carburettor Number:	Two		
Size:	660		
Fuel injection Make:	N/A	Type:	N/A
Supercharged:	No	Type:	N/A
Comments:	None		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Various
Type:	Dry plate
Diameter:	215 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	None

3.2. TRANSMISSION

Type:	Synchromesh
Make:	Ford Borg Warner
Gearbox location:	Behind engine
No. forward speeds:	Four
Gearchange type and location:	Remote lever floor
Case material:	Cast iron
Identifying marks:	N/A
Comments:	None

3.3. FINAL DRIVE

Make:	Ford	Model:	9"
Type:	Live axle		
Ratios:	Various		
Differential type:	Detroit Locker		
Comments:	None		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Open tailshaft with twin uni joints
Comments:	Steel

3.5. WHEELS & TYRES

Wheel type - Original:	Pressed disc	Material - Original:	Steel
Wheel type - Allowed:	Cast	Material - Allowed:	Alloy
Fixture method:	Studs	No. studs:	Five
Wheel dia. & rim width	FRONT		REAR
Original:	6" x 15"		6" x 15"
Allowed	6" x 15"		6" x 15"
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:	Rear	Capacity:	100 litres
Fuel pump, type:	Electrical	Make:	Holley
Comments:	None		

4.2. ELECTRICAL SYSTEM

Voltage:	12 volt	Alternator fitted:	Alternator
Battery Location:	Behind passenger seat		
Comments:	None		

4.3. BODYWORK

Type:	Fixed head coupe	Material:	Steel/Fiberglass
No. of seats:	Five	No. doors:	Two
Comments:	Fibreglass panels for the doors, engine hood, front guards, and boot lid permitted. Bonnet must be flat. Bumpers must be either steel or aluminium. Fiberglass not permitted.		

4.4. DIMENSIONS

Track - Front:	1650 mm	Rear:	1580 mm
Wheelbase:	3023 mm	Overall length:	5309 mm
Approved Manufacturer's kerb weight:	1700 kgs		
Approved minimum racing weight:	1666 kgs		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix A

Suspension

Front

Spring height adjustment permitted.

Rear

Spring height adjustment permitted.