



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.

<b>Make of Car:</b>	Ford	<b>Model:</b>	Falcon XL
<b>Period of Original Manufacture:</b>	August 1962 – February 1964		
<b>Motorsport Australia Historic Group:</b>	Nb		
<b>Date of Issue of this Document:</b>	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

<b>Description:</b>	Uni-body two or four door sedan
<b>Period of Manufacture:</b>	August 1962 – February 1964
<b>Manufacturer:</b>	Ford Motor Company
<b>Chassis Number From:</b>	XLRBD 100375 onwards
<b>Chassis Number location:</b>	Original engine number stamped on radiator support panel. Refer Appendix A.
<b>Material:</b>	Steel
<b>Comments</b>	None

### 1.2. FRONT SUSPENSION

<b>Description:</b>	Independent - upper wishbone, lower control arm & castor rod		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Telescopic	<b>Adjustable:</b>	No
<b>Anti-sway bar:</b>	Fitted	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	Yes	<b>Method:</b>	Castor, camber and toe
<b>Comments:</b>	Refer to Appendix A		

### 1.3. REAR SUSPENSION

<b>Description:</b>	Live rear axle		
<b>Spring Medium:</b>	Semi-elliptical leaf		
<b>Damper Type:</b>	Telescopic	<b>Adjustable:</b>	No
<b>Anti-sway bar:</b>	No	<b>Adjustable:</b>	N/A
<b>Suspension adjustable:</b>	No	<b>Method:</b>	N/A
<b>Comments:</b>	Refer to Appendix A		

### 1.4. STEERING

<b>Type:</b>	Recirculating ball	<b>Make:</b>	Ford
<b>Comments</b>	None		

### 1.5. BRAKES

	Front	Rear
<b>Type:</b>	Drum	Drum
<b>Dimensions:</b>	229 mm x 57 mm 225 x 57 mm	229 mm x 38 mm 225 mm x 45 mm
<b>Material of drum/disc:</b>	Cast iron	Cast iron
<b>No. cylinders/pots per wheel:</b>	One	One
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper make:</b>	N/A	
<b>Caliper type:</b>	N/A	
<b>Material:</b>	N/A	
<b>Master cylinder make:</b>	PBR	
<b>Type:</b>	Single	
<b>Adjustable bias:</b>	No	
<b>Servo Fitted:</b>	No	
<b>Comments:</b>	None	

## SECTION 2 - ENGINE

### 2.1. ENGINE

<b>Make:</b>	Ford		
<b>Model:</b>	170 cubic inch 200 cubic inch		
<b>No. cylinders:</b>	Six	<b>Configuration:</b>	In line
<b>Cylinder Block-material:</b>	Cast iron	<b>Two/Four Stroke:</b>	Four
<b>Bore – Original - 170:</b>	88.9 mm	<b>Max allowed:</b>	90.4 mm
<b>Stroke – original - 170:</b>	74.7 mm	<b>Max allowed:</b>	74.7 mm
<b>Capacity – original - 170:</b>	2782 cc	<b>Max allowed:</b>	2876 cc
<b>Bore – Original - 200:</b>	93.96 mm	<b>Max allowed:</b>	95.1 mm
<b>Stroke – original - 200:</b>	79.4 mm	<b>Max allowed:</b>	79.4 mm
<b>Capacity – original - 200:</b>	3278 cc	<b>Max allowed:</b>	3384 cc
<b>Identifying marks:</b>	D prefix – 170 engine SD prefix – 200 engine Rear of the engine under the the intake manifold. Refer Appendix A		
<b>Cooling method:</b>	Liquid		
<b>Comments:</b>			

### 2.2. CYLINDER HEAD

<b>Make:</b>	Ford		
<b>No. of valves/cylinder:</b>	Two	<b>Inlet:</b> One	<b>Exhaust:</b> One
<b>No. of ports total:</b>	Twelve	<b>Inlet:</b> Six	<b>Exhaust:</b> Six
<b>No. of camshafts:</b>	One	<b>Location:</b> Block	<b>Drive:</b> Chain
<b>Valve actuation:</b>	Pushrod and rocker		
<b>Spark plugs/cylinder:</b>	One		
<b>Identifying marks:</b>	N/A		
<b>Comments:</b>	Inlet manifold is cast integral with cylinder head. Inlet manifold may be modified to allow addition of multiple carburettors.		

### 2.3. LUBRICATION

<b>Method:</b>	Wet sump	<b>Oil tank location:</b>	N/A
<b>Dry sump pump type:</b>	N/A	<b>Location:</b>	N/A
<b>Oil cooler standard:</b>	No	<b>Location:</b>	N/A
<b>Comments:</b>	None		

### 2.4. IGNITION SYSTEM

<b>Type:</b>	Points, coil & distributor		
<b>Make:</b>	Bosch or Autolite		
<b>Comments</b>	Breakerless electronic ignition permitted		

### 2.5. FUEL SYSTEM

<b>Carburettor Make:</b>	Autolite	<b>Model:</b>	Single barrel
<b>Carburettor Number:</b>	One		
<b>Size:</b>	Various		
<b>Fuel injection Make:</b>	N/A	<b>Type:</b>	N/A
<b>Supercharged:</b>	No	<b>Type:</b>	N/A
<b>Comments:</b>	None		

**SECTION 3 - TRANSMISSION**

**3.1. CLUTCH**

<b>Make:</b>	Ford
<b>Type:</b>	Diaphragm
<b>Diameter:</b>	216 mm
<b>No. of Plates:</b>	One
<b>Actuation:</b>	Mechanical
<b>Comments:</b>	None

**3.2. TRANSMISSION**

<b>Type:</b>	Synchromesh
<b>Make:</b>	Ford
<b>Gearbox location:</b>	Behind engine
<b>No. forward speeds:</b>	Three
<b>Gearchange type and location:</b>	Remote, steering column
<b>Case material:</b>	Cast iron
<b>Identifying marks:</b>	N/A
<b>Comments:</b>	The use of XR Falcon standard (non-Syncro) 3 speed gearbox is permitted

**3.3. FINAL DRIVE**

<b>Make:</b>	Ford	<b>Model:</b>	N/A
<b>Type:</b>	Live axle		
<b>Ratios:</b>	3.5:1 and 3.2:1		
<b>Differential type:</b>	Open/free		
<b>Comments:</b>	None		

**3.4. TRANSMISSION SHAFTS (EXPOSED)**

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

**3.5. WHEELS & TYRES**

<b>Wheel type - Original:</b>	Pressed disc	<b>Material - Original:</b>	Steel
<b>Wheel type - Allowed:</b>	Cast	<b>Material - Allowed:</b>	Alloy
<b>Fixture method:</b>	Studs	<b>No. studs:</b>	Four or Five
<b>Wheel dia. &amp; rim width</b>	<b>FRONT</b>		<b>REAR</b>
<b>Original:</b>	5" x 13" (4 stud) 6" x 14" (5 stud)	5" x 13" (4 stud) 6" x 14" (5 stud)	
<b>Allowed</b>	6.7" x 13" (4 stud) 6.7" x 14" (5 stud)	6.7" x 13" (4 stud) 6.7" x 14" (5 stud)	
<b>Tyre Section:</b>			
<b>Allowed:</b>	Refer approved tyre list.		
<b>Aspect ratio - minimum:</b>	60% minimum aspect ratio		
<b>Comments:</b>	None		

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

<b>Tank Location:</b>	Boot floor	<b>Capacity:</b>	52 litres
<b>Fuel pump, type:</b>	Mechanical, left side of engine block.	<b>Make:</b>	AC
<b>Comments:</b>	None		

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	12	<b>Alternator fitted:</b>	Generator
<b>Battery Location:</b>	Engine compartment		
<b>Comments:</b>	None		

### 4.3. BODYWORK

<b>Type:</b>	Closed touring	<b>Material:</b>	Steel
<b>No. of seats:</b>	Five	<b>No. doors:</b>	Two or Four
<b>Comments:</b>	None		

### 4.4. DIMENSIONS

<b>Track - Front:</b>	1397 mm	<b>Rear:</b>	1384 mm
<b>Wheelbase:</b>	2781 mm	<b>Overall length:</b>	4602 mm
<b>Approved Manufacturer's kerb weight:</b>	1106 kgs		
<b>Approved minimum racing weight:</b>	1084 kgs		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
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## Appendix A

### Chassis

The diagram shows a vehicle identification plate with the following fields:

- YEAR OF ASSEMBLY:** X
- MONTH OF ASSEMBLY:** M
- ASSEMBLY PLANT:** R
- PRODUCTION LINE (AUSTRALIAN):** B D
- CONSECUTIVE UNIT OFF ASSEMBLY LINE:** 100375
- SINGLE INDEPENDENT DEALER ORDER NUMBER:** 100000

The plate itself contains the following information:

<b>SERIAL PREFIX</b> XMRBD	<b>SERIAL NUMBER</b> 100375	<b>SIDO NUMBER</b> 100000
<b>MODEL</b> 31214	<b>PAINT</b> 111	<b>TRIM</b> 3214

Labels for the plate fields:

- MODEL REFERENCE:** Points to the Model (31214)
- TRIM CODE:** Points to the Trim (3214)
- ROOF COLOR:** Points to the first digit of Paint (1)
- CENTRE COLOR:** Points to the second digit of Paint (1)
- LOWER COLOR:** Points to the third digit of Paint (1)

### MODEL CODES XM FALCON

DIGIT No. 1. MODEL CLARIFICATION	DIGIT No. 3. BODY TYPE	DIGIT No. 4. TRANSMISSION
3. Australian Passenger	1. 4 Door Sedan Bench Seats	1. Manual 144 C.I.D.
6. Australian Light Truck	2. 4 Door Wagon Bench Seats	2. Automatic 144 C.I.D.
	3. 4 Door Sedan Bucket Seats	3. Manual 170 C.I.D.
	4. 4 Door Wagon Bucket Seats	4. Automatic 170 C.I.D.
	5. 2 Door Sedan Bench Seats	5. Manual 200 C.I.D.
	6. 2 Door Sedan Bucket Seats	6. Automatic 200 C.I.D.
	7. 2 Door Sedan Bucket Seats	7. Low Compression
	8. 2 Door Wagon Bucket Seats	
	9. 2 Door Wagon Bench Seats	
	0. 2 Door Buck Seats Convertable	
	1. Utility	
	2. Van	

**DIGIT No. 2. MODEL**

- Falcon Standard
- Falcon Deluxe
- Futura/Squire

**DIGIT No. 5. MODEL YEAR**

- 1964

### Suspension

#### Front

Ride height and spring rate may be changed by variation of coil springs; Change of sway bar diameter permitted; dampers free subject to original mountings being used and period technology limitation. Spring height adjustment permitted.

#### Rear

Spring height adjustment permitted.