



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:	Falcon XM
Period of Original Manufacture:	1964 - 1965		
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:	Uni-body two or four door sedan
Period of Manufacture:	1964-1965
Manufacturer:	Ford Motor Company
Chassis Number From:	XMRBD 100375 onwards
Chassis Number location:	Original engine number stamped on radiator support panel. Refer Appendix A.
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:	Fitted	Adjustable:	No
Suspension adjustable:	Yes	Method:	Castor, 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:	N/A
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:	Drum	Drum
Dimensions:	229 mm x 57 mm 225 x 57 mm	229 mm x 38 mm 225 mm x 45 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	One	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	N/A	
Caliper type:	N/A	
Material:	N/A	
Master cylinder make:	PBR	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	No	
Comments:	None	

SECTION 2 - ENGINE

2.1. ENGINE

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

2.2. CYLINDER HEAD

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

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 & distributor		
Make:	Bosch or Autolite		
Comments	Breakerless electronic ignition permitted		

2.5. FUEL SYSTEM

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

SECTION 3 - TRANSMISSION

3.1. CLUTCH

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

3.2. TRANSMISSION

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

3.3. FINAL DRIVE

Make:	Ford	Model:	N/A
Type:	Live axle		
Ratios:	3.5:1 and 3.2:1		
Differential type:	Open/free		
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:	Four or Five
Wheel dia. & rim width	FRONT		REAR
Original:	5" x 13" (4 stud) 6" x 14" (5 stud)	5" x 13" (4 stud) 6" x 14" (5 stud)	
Allowed	6.7" x 13" (4 stud) 6.7" x 14" (5 stud)	6.7" x 13" (4 stud) 6.7" x 14" (5 stud)	
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:	52 litres
Fuel pump, type:	Mechanical, left side of engine block.	Make:	AC
Comments:	None		

4.2. ELECTRICAL SYSTEM

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

4.3. BODYWORK

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

4.4. DIMENSIONS

Track - Front:	1397 mm	Rear:	1384 mm
Wheelbase:	2784 mm	Overall length:	4684 mm
Approved Manufacturer's kerb weight:	2 door -1106 kgs 4 door - 1225 kgs		
Approved minimum racing weight:	2 door - 1084 kgs 4 door - 1201 kgs		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix A
Chassis

Ford Motor Company of Australia
LIMITED.
VEHICLE IDENTIFICATION PLATE

SERIAL PREFIX	SERIAL NUMBER	SIDO NUMBER
XMRBD	100375	100000
MODEL	PAINT	TRIM
3214	111	3214

MODEL CODES XM FALCON

<p>DIGIT No. 1. MODEL CLARIFICATION</p> <p>3. Australian Passenger 6. Australian Light Truck</p> <p>DIGIT No. 2. MODEL</p> <p>1. Falcon Standard 2. Falcon Deluxe 3. Futura/Squire</p>	<p>DIGIT No. 3. BODY TYPE</p> <p>1. 4 Door Sedan Bench Seats 2. 4 Door Wagon Bench Seats 3. 4 Door Sedan Bucket Seats 4. 4 Door Wagon Bucket Seats 5. 2 Door Sedan Bench Seats 6. 2 Door Sedan Bench Seats 7. 2 Door Sedan Bucket Seats 8. 2 Door Wagon Bucket Seats 9. 2 Door Wagon Bench Seats 0. 2 Door Buck Seats Convertable</p> <p>1. Utility 2. Van</p>	<p>DIGIT No. 4. TRANSMISSION</p> <p>1. Manual 144 C.I.D. 2. Automatic 144 C.I.D. 3. Manual 170 C.I.D. 4. Automatic 170 C.I.D. 5. Manual 200 C.I.D. 6. Automatic 200 C.I.D. 7. Low Compression</p> <p>DIGIT No. 5. MODEL YEAR</p> <p>4. 1964</p>
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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.