



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>	Lotus Cortina Mark 2
<b>Period of Original Manufacture:</b>	February 1967 – July 1970		
<b>Motorsport Australia Historic Group:</b>	Nc		
<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**

**CHASSIS**

<b>Description:</b>	Unitary construction
<b>Period of Manufacture:</b>	February 1967 – July 1970
<b>Manufacturer:</b>	Ford
<b>Chassis Number From:</b>	CK 1338C
<b>Chassis Number location:</b>	Top of RH skirt – Front of Strut Mount
<b>Material:</b>	Steel with aluminium-alloy skinned swinging panels
<b>Comments</b>	None

**FRONT SUSPENSION**

<b>Description:</b>	Independent - by MacPherson strut with torque reactor and stabiliser bar		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Telescopic double acting integrated	<b>Adjustable:</b>	No
<b>Anti-sway bar:</b>	Yes	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	Yes	<b>Method:</b>	Toe
<b>Comments:</b>	Refer to Appendix A.		

**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.		

**STEERING**

<b>Type:</b>	Recirculating ball 2.5 turns lock to lock	<b>Make:</b>	Ford
<b>Comments</b>	None		

**BRAKES**

	<b>Front</b>	<b>Rear</b>
<b>Type:</b>	Disc, solid	Drum
<b>Dimensions:</b>	12.7 mm x 244 mm	229 x 44.5 mm
<b>Material of drum/disc:</b>	Cast iron	Cast iron
<b>No. cylinders/pots per wheel:</b>	Two	One
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper make:</b>	Girling	
<b>Caliper type:</b>	Tandem	
<b>Material:</b>	Cast iron	
<b>Master cylinder make:</b>	Girling	
<b>Type:</b>	Single	
<b>Adjustable bias:</b>	None	
<b>Servo Fitted:</b>	No	
<b>Comments:</b>	None	

**SECTION 2 - ENGINE**

**ENGINE**

<b>Make:</b>	Ford		
<b>Model:</b>	Pre - cross flow type		
<b>No. cylinders:</b>	Four	<b>Configuration:</b>	In-line
<b>Cylinder Block-material:</b>	Cast iron	<b>Two/Four Stroke:</b>	Four
<b>Bore - Original:</b>	82.55 mm	<b>Max allowed:</b>	83.70 mm
<b>Stroke - original:</b>	72.75 mm (some books say 72.82 mm)	<b>Max allowed:</b>	72.75 mm 72.82 mm
<b>Capacity - original:</b>	1558 cc	<b>Max allowed:</b>	1600 cc
<b>Identifying marks:</b>	681F-6015BA		
<b>Cooling method:</b>	Liquid		
<b>Comments:</b>	Any 7.78" height deck block with the following Engine Casting Block number: 116E-6015BA, 118E-6015BA, 120E-6015, 120E-6015BA, 2731-6015BA, 3020-6015BA, 681F-6015BA, 701M-6015BA, as well as new Ford Motorsport block Part number M-6010-16L.		

**CYLINDER HEAD**

<b>Make:</b>	Lotus Ford		
<b>No. of valves/cylinder:</b>	Two	<b>Inlet:</b> One	<b>Exhaust:</b> One
<b>No. of ports total:</b>	Eight	<b>Inlet:</b> Four	<b>Exhaust:</b> Four
<b>No. of camshafts:</b>	Two	<b>Location:</b> Overhead	<b>Drive:</b> Chain
<b>Valve actuation:</b>	Direct from camshaft via buckets		
<b>Spark plugs/cylinder:</b>	One		
<b>Identifying marks:</b>	N/A		
<b>Comments:</b>	None		

**LUBRICATION**

<b>Method:</b>	Wet sump external oil pump driven off idler cam located in cylinder block	<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		

**IGNITION SYSTEM**

<b>Type:</b>	Points, coil and distributor
<b>Make:</b>	Lucas/Autolite
<b>Comments</b>	Breakerless electronic ignition permitted

**FUEL SYSTEM**

<b>Carburettor Make:</b>	Weber	<b>Model:</b>	40DCOE
<b>Carburettor Number:</b>	Two		
<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**

**CLUTCH**

<b>Make:</b>	Ford
<b>Type:</b>	Dry plate
<b>Diameter:</b>	203 mm
<b>No. of Plates:</b>	One
<b>Actuation:</b>	Hydraulic
<b>Comments:</b>	None

**TRANSMISSION**

<b>Type:</b>	Synchromesh
<b>Make:</b>	Ford – Type 2000E Type 3 single rail Refer Appendix A
<b>Gearbox location:</b>	Behind engine
<b>No. forward speeds:</b>	Four
<b>Gearchange type and location:</b>	Remote change in extension housing
<b>Case material:</b>	Cast iron with separate alloy bell housing
<b>Identifying marks:</b>	N/A
<b>Comments:</b>	Aluminium drive line components Homologated for MK 1 Lotus Cortinas are not legal for other models.

**FINAL DRIVE**

<b>Make:</b>	Ford	<b>Model:</b>	'English 'Banjo type
<b>Type:</b>	Live rear axle, Semi floating hypoid		
<b>Ratios:</b>	Various		
<b>Differential type:</b>	Semi floating hypoid		
<b>Comments:</b>	None		

**TRANSMISSION SHAFTS (EXPOSED)**

<b>Number:</b>	One or two piece.
<b>Location:</b>	Gearbox to final drive
<b>Description:</b>	Tubular and Open tail shaft with twin uni joints.
<b>Comments:</b>	One

**WHEELS & TYRES**

<b>Wheel type - Original:</b>	Pressed disc	<b>Material - Original:</b>	Steel
<b>Wheel type - Allowed:</b>	Steel Alloy (period style)	<b>Material - Allowed:</b>	Steel Alloy
<b>Fixture method:</b>	Studs and nuts	<b>No. studs:</b>	Four
<b>Wheel dia. &amp; rim width</b>	<b>FRONT</b>		<b>REAR</b>
<b>Original:</b>	5.5" x 13"		5.5" x 13"
<b>Allowed</b>	7" x 13"		7" x 13"
<b>Tyre Section:</b>			
<b>Allowed:</b>	Refer approved tyre list.		
<b>Aspect ratio - minimum:</b>	60% minimum aspect ratio.		
<b>Comments:</b>	Minilite wheels Ford optional equipment		

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## SECTION 4 GENERAL

### FUEL SYSTEM

<b>Tank Location:</b>	Floor of boot	<b>Capacity:</b>	45 litres
<b>Fuel pump, type:</b>	Electric Boot	<b>Make:</b>	Facet
<b>Comments:</b>	None		

### ELECTRICAL SYSTEM

<b>Voltage:</b>	12	<b>Alternator fitted:</b>	Alternator
<b>Battery Location:</b>	Right side of luggage compartment.		
<b>Comments:</b>	None		

### BODYWORK

<b>Type:</b>	Closed touring	<b>Material:</b>	Steel. Swinging panels aluminium skinned
<b>No. of seats:</b>	Four	<b>No. doors:</b>	Two
<b>Comments:</b>	Interior and exterior trim must be present in its entirety.		

### DIMENSIONS

<b>Track - Front:</b>	1359 mm	<b>Rear:</b>	1321 mm
<b>Wheelbase:</b>	2490 mm	<b>Overall length:</b>	4267 mm
<b>Approved Manufacturer's kerb weight:</b>	914 kgs		
<b>Approved minimum racing weight:</b>	891 kgs		
<b>Comments:</b>	None		

### SAFETY EQUIPMENT

Refer applicable Group Regulations
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## Appendix A

### Suspension

#### Front

Adjustable strut top mounts and dampers permitted. Spring platform location may be changed; adjustable spring platforms are permitted. Spring height adjustment permitted.

#### Rear

Additional lateral and longitudinal linkages permitted; adjustable dampers permitted. Spring height adjustment permitted. Axle location may be improved.

### Gearboxes

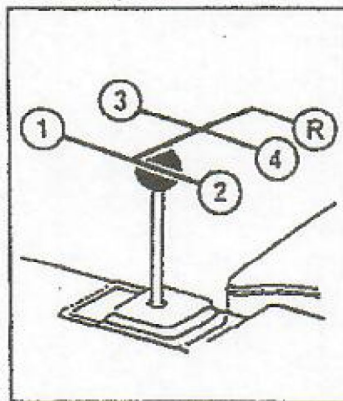
Make:

2000-E



Features:

- Three rail
- Reverse is next to top gear (RHS)



Gear Lever Positions

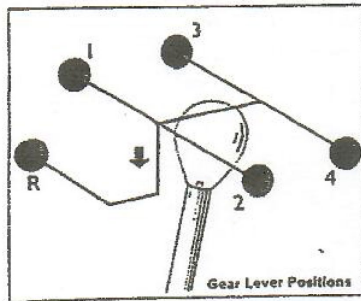
- Case and extension housing are cast iron
- Starter motor is on the driver's side
- 7/8" x 20 spline input shaft

#### Type 3 Single Rail



Features:

- Single rail
- Reverse is next to first gear (LHS)



- Case is cast iron, tail housing is alloy
- Starter motor is on the driver's side
- 7/8" x 20 spline input shaft