

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:	Lotus Cortina Mark 1
Period of Original Manufacture:	1963-1966		
Motorsport Australia Historic Group:	Nb		
Date of Issue of this Document:	1 April 2025		



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
26/2/2025	Adjustment of vehicle weights

SECTION 1 - CHASSIS

CHASSIS

Description:	Unitary construction
Period of Manufacture:	1963-1965
Manufacturer:	Ford
Chassis Number From:	Z74C002368K (not applicable for "specification only" cars)
Chassis Number location:	On I/D plate in engine compartment
Material:	Steel with aluminium-alloy skinned swinging panels
Comments	This specification sheet relates to the "Coil over/A Frame" rear suspension cars using both the early body and the 'Aeroflow Ventilation' model introduced in September 1964.

FRONT SUSPENSION

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

REAR SUSPENSION

Description:	Live axle located by upper trailing arms and lower A-frame.		
Spring Medium:	Coil over damper units.		
Damper Type:	Telescopic	Adjustable:	No
Anti-sway bar:	No	Adjustable:	N/A
Suspension adjustable:	No	Method:	N/A
Comments:	Refer to Appendix A.		

STEERING

Type:	Recirculating ball 2.5 turns lock to lock	Make:	Ford
Comments	Original form including rod ends must be retained		

BRAKES

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

SECTION 2 - ENGINE

ENGINE

Make:	Ford		
Model:	Pre - cross flow type		
No. cylinders:	Four	Configuration:	In-line
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore - Original:	82.55 mm	Max allowed:	84.05 mm
Stroke - original:	72.8 mm	Max allowed:	72.8 mm
Capacity - original:	1558 cc	Max allowed:	1616 cc
Identifying marks:	120E-6015		
Cooling method:	Liquid		
Comments:	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

Make:	Lotus Ford		
No. of valves/cylinder:	Two	Inlet: One	Exhaust: One
No. of ports total:	Eight	Inlet: Four	Exhaust: Four
No. of camshafts:	Two	Location: Overhead	Drive: Chain
Valve actuation:	Direct from camshaft via buckets		
Spark plugs/cylinder:	One		
Identifying marks:	Lotus part number A26E311 & foundry batch number (e.g., WM9403 - the William Mills Foundry cast the heads) adjoin the gasket surface on the exhaust side (visible on an assembled engine using a mirror).		
Comments:	The cylinder head manufactured by SAS Engineering may be used to replace original Lotus heads. Modified original or replacement aftermarket timing chests incorporating a removable water pump are acceptable. The Group Nb regulations allow the use of any original production Lotus twin cam cylinder head, including those manufactured for the Escort Twin Cam (renamed Escort GT 1600 in Australia circa 1970).		

LUBRICATION

Method:	Wet sump external oil pump driven off idler cam located in cylinder block	Oil tank location:	N/A
Dry sump pump type:	N/A	Location:	N/A
Oil cooler standard:	No	Location:	N/A
Comments:	None		

IGNITION SYSTEM

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

FUEL SYSTEM

Carburettor Make:	Weber	Model:	40DCOE
Carburettor Number:	Two		
Size:	Various		
Fuel injection Make:	N/A	Type:	N/A
Supercharged:	No	Type:	N/A
Comments:	None		

SECTION 3 - TRANSMISSION

CLUTCH

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

TRANSMISSION

Type:	Synchromesh
Make:	Ford – Type 2000E with remote shifter (118E/Lotus is the stamp number) Refer Appendix A
Gearbox location:	Behind engine
No. forward speeds:	Four
Gearchange type and location:	Remote change in extension housing
Case material:	Cast iron with separate alloy bell housing
Identifying marks:	N/A
Comments:	Aluminium bell housing and gearbox extension housing are permitted.

FINAL DRIVE

Make:	Ford	Model:	'English 'Banjo type
Type:	Live rear axle, Semi floating hypoid		
Ratios:	Various		
Differential type:	Semi floating hypoid		
Comments:	Aluminium differential carrier is permitted		

TRANSMISSION SHAFTS (EXPOSED)

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

WHEELS & TYRES

Wheel type - Original:	Pressed disc	Material - Original:	Steel
Wheel type - Allowed:	Steel Alloy (period style)	Material - Allowed:	Steel Alloy
Fixture method:	Studs and nuts	No. studs:	Four
Wheel dia. & rim width	FRONT		REAR
Original:	5.5" x 13"		5.5" x 13"
Allowed	6" x 13"		6" x 13"
Tyre Section:			
Allowed:	Refer approved tyre list.		
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	None		

SECTION 4 GENERAL

FUEL SYSTEM

Tank Location:	Floor of boot	Capacity:	36.4 litres
Fuel pump, type:	Mechanical on engine block	Make:	Ford
Comments:	None		

ELECTRICAL SYSTEM

Voltage:	12	Alternator fitted:	Alternator
Battery Location:	Right side of luggage compartment.		
Comments:	None		

BODYWORK

Type:	Closed touring	Material:	Steel. Swinging panels aluminium skinned
No. of seats:	Four	No. doors:	Two
Comments:	Interior and exterior trim must be present in its entirety. For safety purposes, a fire wall of aluminium sheet is required between the luggage compartment and the passenger compartment, including access via the rear pillars.		

DIMENSIONS

Track - Front:	1310 mm plus or minus 25 mm	Rear:	1275 mm plus or minus 25mm
Wheelbase:	2499 mm plus or minus 25mm	Overall length:	4275 mm
Approved Manufacturer's kerb weight:	800 kgs		
Approved minimum racing weight:	776 kgs		
Comments:	None		

SAFETY EQUIPMENT

Refer applicable Group Regulations

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 is permitted.

Rear

Additional lateral and longitudinal linkages permitted; adjustable dampers permitted. Spring height adjustment permitted.

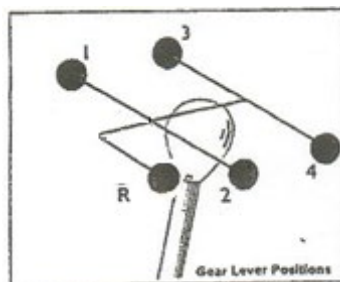
Gearboxes

Type 2000E with remote shifter



Features:

- Console must be fitted to cover remote shifter.
- Aluminium drive line components Homologated for MK 1 Lotus Cortinas are not legal for other models.
- Three rail
- Reverse is next to second



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