



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:	Escort Twin Cam
Period of Original Manufacture:	1970 – 1973		
Motorsport Australia Historic Group:	Nc		
Date of Issue of this Document:	28 September 2021		



Refer to Motorsport Australia Manual of Motor Sport, Vehicle Eligibility, Historic Touring Cars, General Requirements & Nc Regulations for permitted modifications.

Update Log

SECTION 1 - CHASSIS

CHASSIS

Description:	Uni body, two door coupe with sub frames
Period of Manufacture:	1970-1973
Manufacturer:	Ford Australia
Chassis Number From:	Typical prefix CK49xxxxxxx
Chassis Number location:	Top of RH suspension tower
Material:	Steel
Comments	Assembled in Australia from CKD parts mainly of European origin with some local components

FRONT SUSPENSION

Description:	Independent - by MacPherson Strut with lower arm and sway bar		
Spring Medium:	Coil		
Damper Type:	Telescopic incorporated in strut	Adjustable:	No
Anti-sway bar:	Yes	Adjustable:	No
Suspension adjustable:	Yes	Method:	Toe
Comments:	Refer to Appendix A.		

REAR SUSPENSION

Description:	Live rear axle with trailing links		
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.		

STEERING

Type:	Rack and pinion	Make:	Ford
Comments	None		

BRAKES

	Front	Rear
Type:	Disc, solid	Drum
Dimensions:	12.7 mm x 244 mm	229 mmx 45.5 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	Two	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	Girling	
Caliper type:	Two Cylinder	
Material:	Cast iron	
Master cylinder make:	Girling	
Type:	Single	
Adjustable bias:	None	
Servo Fitted:	Yes	
Comments:	None	

SECTION 2 - ENGINE

ENGINE

Make:	Lotus/Ford		
Model:	Twin-cam		
No. cylinders:	Four	Configuration:	In-line
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore - Original:	82.5 mm	Max allowed:	84 mm
Stroke - original:	72.75 mm	Max allowed:	72.75 mm
Capacity - original:	1558 cc	Max allowed:	1613 cc
Identifying marks:	681F-6015BA or 701M-6105BA		
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: Cylinder head	Drive: Chain
Valve actuation:	Direct from camshaft via buckets		
Spark plugs/cylinder:	One		
Identifying marks:	A26E311 & WM9403 adjacent to gasket face but visible on assembled engine		
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.		

LUBRICATION

Method:	Wet sump	Oil tank location:	N/A
Dry sump pump type:	N/A	Location:	N/A
Oil cooler standard:	Yes	Location:	Located at radiator support
Comments:	None		

IGNITION SYSTEM

Type:	Points, coil and distributor		
Make:	Lucas/Autolite		
Comments:	Breakerless electronic ignition permitted. The ignition module may be removed from the distributor and mounted remotely on the inner mudguard of the firewall in the vicinity of the distributor and coil. The module should be mounted on a plate to allow minimum gap of 10 mm between the module and the plate mounting surface.		

FUEL SYSTEM

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

SECTION 3 - TRANSMISSION

CLUTCH

Make:	Ford
Type:	Diaphragm
Diameter:	190 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	None

TRANSMISSION

Type:	Synchromesh
Make:	Ford – 2000E 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 cast iron bell housing
Identifying marks:	N/A
Comments:	In 1974 Ford standardised on the larger 2-litre gearbox. This gearbox, identified by the detachable bellhousing and 1" 23 spline input shaft is not eligible in Group Nc.

FINAL DRIVE

Make:	Ford	Model:	'English 'Banjo type
Type:	Live rear axle		
Ratios:	Various		
Differential type:	Free; torque biasing (LSD) permitted.		
Comments:	Some post-1972 cars were fitted with Borg Warner Australia integral carrier rear axles. These are not Nc acceptable.		

TRANSMISSION SHAFTS (EXPOSED)

Number:	One.
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	7" x 13"		7" 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:	RH side of boot	Capacity:	40 litres
Fuel pump, type:	Mechanical on engine block	Make:	Ford
Comments:	None		

ELECTRICAL SYSTEM

Voltage:	12	Alternator fitted:	Alternator
Battery Location:	Engine bay		
Comments:	None		

BODYWORK

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

DIMENSIONS

Track - Front:	1270 mm	Rear:	1295 mm
Wheelbase:	2413 mm	Overall length:	3980 mm
Dry weight:	825 kg		
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 permitted.

Rear

Additional lateral and longitudinal linkages permitted; adjustable dampers permitted. Rear damper original upper mountings must be used; 'turret' style upper mountings (where modification to body floor pan is necessary) are NOT permitted. Spring height adjustment permitted.

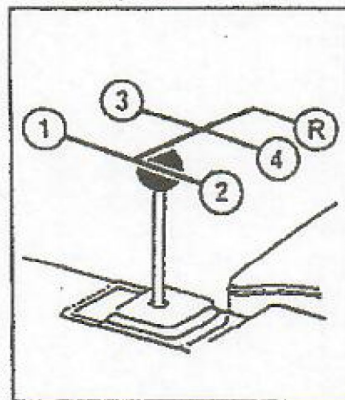
Gearbox

2000E



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