

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:	1 January 20)24	



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

Update Log

1/1/2024	Inclusion of kerb and minimum racing weights

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

REAR SUSPENSION

Description:	Live rear ax	Live rear axle with trailing links				
Spring Medium:	Semi Elliptio	Semi Elliptical Leaf				
Damper Type:	Telescopic	Telescopic		No		
Anti-sway bar:	No	No		N/A		
Suspension adjustable:	No	No Method:				
Comments:	Refer to Ap	Refer to Appendix A.				

STEERING

Type:	Rack and pinion	Make:	Ford
Comments	None		

BRAKES

	Front	Rear
Type:	Disc - solid	Drum
Dimensions:	218 mm x 15.5 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 nun	nber M-6010-16L.			

CYLINDER HEAD

Make:	Lotus I	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

Туре:	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	Туре:	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	Materia	l - Original:	Steel	
Wheel type - Allowed:	Steel	Materia	l - Allowed:	Steel	
	Alloy (period style)			Alloy	
Fixture method:	Studs and nuts	No. stud	ls:	Four	
Wheel dia. & rim width	FRONT	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				

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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
Approved Manufacturer's	785 kgs		
kerb weight:			
Approved minimum racing	761 kgs		
weight:			
Comments:	None		

SAFETY EQUIPMENT

Pofor applicable Group Pogulations	
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.

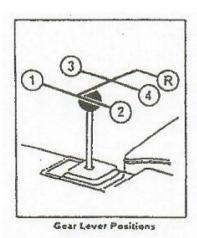
Gearbox

2000E



Features:

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



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