5TH CATEGORY - HISTORIC RACING
GROUP S
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:	Lotus	**Model:**	7 – Series 4
Period of Original Manufacture:	1969 - 1972		
Motorsport Australia Historic Group:	Sc		
Date of Issue of this Document:	30/6/2022		
NOTE	Only Lotus built cars or Lotus kits assembled by Steel Bros (NZ) are eligible for classification in this Group. Later cars built by Steel Bros, commonly known as "New Zealand 7" with altered mechanical and body specifications are not eligible		

Update Log

30/6/2022	Document layout

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Tubular and sheet metal frame
Period of Manufacture:	1969 - 1972
Manufacturer:	Lotus components & Steel Bros (NZ)
Chassis Number From:	46/001 to 65/0001
Chassis Number location:	Firewall
Material:	Mild steel
Comments	Only those Steel Brothers cars built from Lotus supplied kits are eligible

1.2. FRONT SUSPENSION

Description:	Independent front suspension – upper and lower wishbones			
Spring Medium:	Coil			
Damper Type:	Telescopic		**Adjustable:**	No
Anti-sway bar:	Yes		**Adjustable:**	No
Suspension adjustable:	Yes	**Method:**	Adjustable spring seats	
Comments:	Spring rates and ride height are unrestricted			

1.3. REAR SUSPENSION

Description:	Live axle – Leading and trailing arms (4 link system)			
Spring Medium:	Coil			
Damper Type:	Telescopic		**Adjustable**	No
Anti-sway bar:	No		**Adjustable:**	No
Suspension adjustable:	Yes	**Method:**	Adjustable spring seats	
Comments:	Spring rates and ride height are unrestricted			

1.4. STEERING

Type:	Rack and pinion	**Make:**	Alford and Alder
Comments	None		

1.5. BRAKES

	Front	**Rear**
Type:	Disc	Drum
Dimensions:	218 mm	230 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	Two	Two
Actuation:	Hydraulic	Hydraulic
Caliper make:	Girling	
Caliper type:	Fixed	
Material:	Cast iron	
Master cylinder make:	Girling	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	No	
Comments:	Twin master cylinders permitted	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Lotus/Ford		
Model:	Twin-cam, Cortina 1300 or 1600.		
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. Escort 1300cc and Cortina 1600cc engines also fitted.		

2.2. 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.				

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:	Oil cooler allowed		

2.4. IGNITION SYSTEM

Type:	Points, Coil and Distributor
Make:	Lucas
Comments	None

2.5. FUEL SYSTEM

Carburettor Make – Stage III:	Weber	**Model:**	DCOE40
Carburettor Number:	Two		
Size:	40 mm		
Fuel injection Make:	N/A	**Type:**	N/A
Supercharged:	No	**Type:**	N/A
Comments:	Dellorto carburettors also fitted. All cars may use either Weber or Dellorto carburetors Carburettor throt size unrestricted.		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

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

3.2. TRANSMISSION

Type:	Synchromesh
Make:	Ford – 2000E
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:	Refer Appendix A
Comments:	

3.3. FINAL DRIVE

Make:	Ford	**Model:**	"English" Banjo type
Type	Live rear axle		
Wheel drive method	Rear		
Ratios:	Various		
Differential type:	Hypoid bevel		
Comments:	Ratios free Limited slip differential allowed		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Tubular tailshaft with universal joints
Comments:	None

3.5. WHEELS & TYRES

Wheel type - Original:	Disc	**Material - Original:**	Steel or Alloy
Wheel type - Allowed:	Period alloy	**Material - Allowed:**	Steel or Alloy
Fixture method:	Bolt on	**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:		
Original:	185 x 13	185 x 13
Allowed:	185 x 13	185 x 13
Aspect ratio - minimum:	60% minimum aspect ratio.	
Comments:	Refer approved tyre list.	

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Rear	**Capacity:**	34 litres
Fuel pump, type:	Electrical	**Make:**	SU
Comments:	Fuel pump free		

4.2. ELECTRICAL SYSTEM

Voltage:	Twelve	**Alternator fitted:**	Alternator
Battery Location:	Engine compartment		
Comments:	None		

4.3. BODYWORK

Type:	Two seat Clubman Sports	**Material:**	GRP
No. of seats:	Two	**No. doors:**	None
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1275 mm	**Rear:**	1356 mm
Wheelbase:	2285 mm	**Overall length:**	3716 mm
Dry weight:	Twin cam engine - 600 Kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

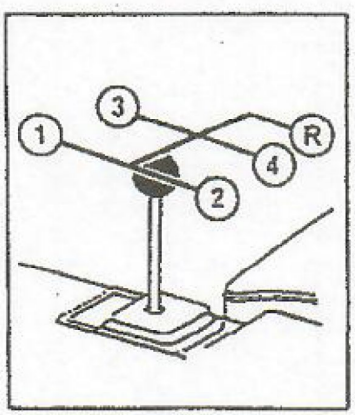
Appendix

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