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 3
Period of Original Manufacture:	1968 - 1970		
Motorsport Australia Historic Group:	Sb/Sc		
Date of Issue of this Document:	30/6/2022		
NOTE	Factory built competition variants of standard production cars, without an identifiable competition in the Group period will be accepted for classification in their originally purchased form. At all times, it will devolve upon the applicant to satisfy Motorsport Australia as to the bona fides of the specification of any such car		

Update Log

30/6/2022	Document layout

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Tubular steel space frame
Period of Manufacture:	1968 - 1970
Manufacturer:	Lotus components
Chassis Number From:	2102 - 2450
Chassis Number location:	ID plate on top of the driver's footbox
Material:	Mild steel tube
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent front suspension – lower wishbone, upper radius arm and sway bar location			
Spring Medium:	Coil over damper			
Damper Type:	Telescopic		**Adjustable:**	No
Anti-sway bar:	Yes		**Adjustable:**	No
Suspension adjustable:	No	**Method:**	N/A	
Comments:	Spring rates and ride height are unrestricted			

1.3. REAR SUSPENSION

Description:	Live axle			
Spring Medium:	Coil over damper			
Damper Type:	Telescopic		**Adjustable**	No
Anti-sway bar:	No		**Adjustable:**	No
Suspension adjustable:	No	**Method:**	N/A	
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:	229 mm	203 mm x 38 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:	Ford		
Model:	Ford 225E, Ford-Hollbay crossflow, Lotus Twin-Cam		
No. cylinders:	Four	**Configuration:**	In-line
Cylinder Block-material:	Cast iron	**Two/Four Stroke:**	Four
Bore – Original – 2250E:	80.96 mm	**Max allowed:**	82.46 mm
Stroke – original - 2250E:	77.62 mm	**Max allowed:**	77.62 mm
Capacity – original - 2250E:	1600 cc	**Max allowed:**	1658 cc
Bore – Original - 225E:	80.96 mm	**Max allowed:**	82.46 mm
Stroke - original - 225E:	48.41 mm	**Max allowed:**	48.41 mm
Capacity - original - 225E:	996 cc	**Max allowed:**	1034 cc
Bore – Original - Twin cam:	82.5 mm	**Max allowed:**	84 mm
Stroke - original Twin cam:	72.75 mm	**Max allowed:**	72.75 mm
Capacity - original Twin cam:	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. Engine specifications may be 'maximised' provided the make of engine originally fitted to the subject car is retained.		

2.2. CYLINDER HEAD

Make:	Ford				
No. of valves/cylinder:	Two	**Inlet:**	One	**Exhaust:**	One
No. of ports total:	Eight	**Inlet:**	Four	**Exhaust:**	Four
No. of camshafts:	One	**Location:**	Block	**Drive:**	Chain
Valve actuation:	Pushrod				
Spark plugs/cylinder:	One				
Identifying marks:					

Make – Twin Cam:	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 – Twin Cam:	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.				
Comments:	Engine specifications may be 'maximised' provided the make of engine originally fitted to the subject car is retained.				

2.3. LUBRICATION

Method:	Wet sump	**Oil tank location:**	N/A
Dry sump pump type:	Gear	**Location:**	In sump
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 – Ford engines:	Weber	**Model:** 40DCOE	32DFM
Carburettor Number:	Two		
Size:	32 mm		
Fuel injection Make:	N/A	**Type:**	N/A
Supercharged:	No	**Type:**	N/A
Comments:	Twin cam engines fitted with twin DCOE Webers. All cars may fit twin period carburettors. Carburettor throat size unrestricted.		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Girling
Type:	Dry plate
Diameter:	203 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	Clutch free

3.2. TRANSMISSION

Type:	Synchromesh
Make:	Ford – 116E
Gearbox location:	Behind engine
No. forward speeds:	Four
Gearchange type and location:	Remote floor change
Case material:	Cast iron with separate cast iron bell housing
Identifying marks:	Refer Appendix A
Comments:	Three speed gearbox fitted only to 1172 cc Ford engine cars. Other Series 1 cars fitted BMC 4 speed gearbox. All cars except 1172 cc Ford engined cars may fit 4 speed gearbox. Ratios free.

3.3. FINAL DRIVE

Make:	Ford	**Model:**	Escort
Type	Live rear axle		
Wheel drive method	Rear		
Ratios:	Various		
Differential type:	Hypoid bevel – free		
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:	Steel Disc	**Material - Original:**	Steel
Wheel type - Allowed:	Steel Period alloy	**Material - Allowed:**	Steel Alloy
Fixture method:	Bolt on	**No. studs:**	Four
Wheel dia. & rim width	**FRONT**		**REAR**
Original:	5.5” x 13”		5.5” x 13”
Allowed	5.5” x 13”		5.5” x 13”
Tyre Section:			
Original:	185/60 x 13		185/60 x 13
Allowed:	185/60 x 13		185/60 x 13
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list. Alloy wheels optional as original equipment		

4.1. FUEL SYSTEM

Tank Location:	Rear	**Capacity:**	36 litres
Fuel pump, type:	Mechanical or electrical	**Make:**	
Comments:	Fuel pump free		

4.2. ELECTRICAL SYSTEM

Voltage:	Twelve	**Alternator fitted:**	Alternator
Battery Location:	Rear		
Comments:	None		

4.3. BODYWORK

Type:	Two seat Clubman Sports	**Material:**	Aluminium
No. of seats:	Two	**No. doors:**	None
Comments:	Body changes include airscoop or louvres in bonnet, wider rear mudguards, fuel filler on rear panel. “Clamshell“ or Cycle type fenders optional		

4.4. DIMENSIONS

Track - Front:	1244 mm*	**Rear:**	1321 mm
Wheelbase:	2260 mm	**Overall length:**	3378 mm
Dry weight:	547 kg 570 kg*		
Comments:	*- Dependent on mechanical specifications		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix