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:**	Elan – 1500 Elan – 1600 S1, S2, S3, S4
Period of Original Manufacture:	1962 - 1973		
Motorsport Australia Historic Group:	Sb		
Date of Issue of this Document:	31/12/2024		

Update Log

30/6/2022	Document layout
31/12/2024	Inclusion of kerb and minimum racing weights

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Backbone
Period of Manufacture:	1962 – 1973
Manufacturer:	Lotus
Chassis Number From:	26/0001 -7302.09
Chassis Number location:	Bulkhead, engine bay, exhaust side
Material:	Mild steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent front suspension – twin wishbones			
Spring Medium:	Coil			
Damper Type:	Tubular		**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:	Independent rear suspension – Chapman strut			
Spring Medium:	Coil			
Damper Type:	Tubular		**Adjustable**	No
Anti-sway bar:	No		**Adjustable:**	N/A
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	Disc
Dimensions:	241 mm	254 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	One	One
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:	Dual master cylinder allowed Servo allowed	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Lotus Ford		
Model:			
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:	73.0 mm	**Max allowed:**	73.0 mm
Capacity - original:	1558 cc	**Max allowed:**	1617 cc
Identifying marks:			
Cooling method:	Liquid		
Comments:	None		

2.2. CYLINDER HEAD

Make:	Lotus				
No. of valves/cylinder:	Two	**Inlet:**	One	**Exhaust:**	One
No. of ports total:	Eight	**Inlet:**	Four	**Exhaust:**	Four
No. of ports total (Stromberg):	Six	**Inlet:**	Two	**Exhaust:**	Four
No. of camshafts:	Two	**Location:**	Head	**Drive:**	Chain
Valve actuation:	Overhead camshafts				
Spark plugs/cylinder:	One				
Identifying marks:					
Comments:	None				

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:	Weber	**Model:**	40DCOE
Carburettor Make:	Stromberg	**Model:**	176D25
Carburettor Make:	Dellorto	**Model:**	DHLA40
Carburettor Number:	Two		
Size:			
Fuel injection Make:	N/A	**Type:**	N/A
Supercharged:	No	**Type:**	N/A
Comments:	Bore size unrestricted		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Borg and Beck
Type:	Diaphragm
Diameter:	203 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	None

3.2. TRANSMISSION

Type:	Type 2000E
Make:	Ford
Gearbox location:	Behind engine
No. forward speeds:	Four
Gearchange type and location:	Floor remote
Case material:	Cast iron
Identifying marks:	
Comments:	Ratios free

3.3. FINAL DRIVE

Make:	Lotus	**Model:**	
Wheel drive method	Rear		
Ratios:	Various		
Differential type:	Hypoid bevel		
Comments:	Ratios free Limited slip differential allowed		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	Two
Location:	Halfshafts
Description:	Tubular with “Rotoflex” donut type universal joints
Comments:	C/V joints not allowed Hardy Spicer Type 26R drive shafts and universal joints allowed

3.5. WHEELS & TYRES

Wheel type - Original:	Disc	**Material - Original:**	Steel
Wheel type - Allowed:	Cast alloy	**Material - Allowed:**	Aluminium alloy
Fixture method:	Bolt on Centre lock	**No. studs:**	Four

Wheel dia. & rim width	**FRONT**	**REAR**
Original:	4.5” x 13” 5.5” x 13” 6” x 13”	4.5” x 13” 5.5” x 13” 6” x 13”
Allowed	6” x 13”	6” x 13”
Tyre Section:		
Original:	5.20 x 13”	5.20 x 13”
Allowed:	175 x 13	175 x 13
Aspect ratio - minimum:	60% minimum aspect ratio.	
Comments:	Refer approved tyre list. Rim size and tyre size limited to combination that will fit under standard wheel arch. Alloy wheel should be 4 spoke 26R tyre	

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Under boot	**Capacity:**	35 litres
Fuel pump, type:	Mechanical	**Make:**	AC
Comments:	None		

4.2. ELECTRICAL SYSTEM

Voltage:	Twelve	**Alternator fitted:**	Generator
Battery Location:	Engine bay		
Comments:	None		

4.3. BODYWORK

Type:	Open sports Fixed head coupe	**Material:**	GRP
No. of seats:	Two	**No. doors:**	Two
Comments:	Hardtop allowed		

4.4. DIMENSIONS

Track - Front:	1400 mm	**Rear:**	1410 mm
Wheelbase:	2150 mm	**Overall length:**	3700 mm
Approved Manufacturer's kerb weight:	680 kg – S2 685 kg – S3 690 kg – S4		
Approved minimum racing weight:	608 kg – S2 612 kg – S3 617 kg – S4		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix