



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.

<b>Make of Car:</b>	Lotus	<b>Model:</b>	Elan – 1500 Elan – 1600 S1, S2, S3, S4
<b>Period of Original Manufacture:</b>	1962 - 1973		
<b>Motorsport Australia Historic Group:</b>	Sb		
<b>Date of Issue of this Document:</b>	30/6/2022		



**Update Log**

30/6/2022	Document layout

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

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

### 1.2. FRONT SUSPENSION

<b>Description:</b>	Independent front suspension – twin wishbones		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Tubular	<b>Adjustable:</b>	No
<b>Anti-sway bar:</b>	Yes	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	No	<b>Method:</b>	N/A
<b>Comments:</b>	Spring rates and ride height are unrestricted		

### 1.3. REAR SUSPENSION

<b>Description:</b>	Independent rear suspension – Chapman strut		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Tubular	<b>Adjustable</b>	No
<b>Anti-sway bar:</b>	No	<b>Adjustable:</b>	N/A
<b>Suspension adjustable:</b>	No	<b>Method:</b>	N/A
<b>Comments:</b>	Spring rates and ride height are unrestricted		

### 1.4. STEERING

<b>Type:</b>	Rack and pinion	<b>Make:</b>	Alford and Alder
<b>Comments</b>	None		

### 1.5. BRAKES

	Front	Rear
<b>Type:</b>	Disc	Disc
<b>Dimensions:</b>	241 mm	254 mm
<b>Material of drum/disc:</b>	Cast iron	Cast iron
<b>No. cylinders/pots per wheel:</b>	One	One
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper make:</b>	Girling	
<b>Caliper type:</b>	Fixed	
<b>Material:</b>	Cast iron	
<b>Master cylinder make:</b>	Girling	
<b>Type:</b>	Single	
<b>Adjustable bias:</b>	No	
<b>Servo Fitted:</b>	No	
<b>Comments:</b>	Dual master cylinder allowed Servo allowed	

## SECTION 2 - ENGINE

### 2.1. ENGINE

<b>Make:</b>	Lotus Ford		
<b>Model:</b>			
<b>No. cylinders:</b>	Four	<b>Configuration:</b>	In line
<b>Cylinder Block-material:</b>	Cast iron	<b>Two/Four Stroke:</b>	Four
<b>Bore - Original:</b>	82.55 mm	<b>Max allowed:</b>	84.05 mm
<b>Stroke - original:</b>	73.0 mm	<b>Max allowed:</b>	73.0 mm
<b>Capacity - original:</b>	1558 cc	<b>Max allowed:</b>	1617 cc
<b>Identifying marks:</b>			
<b>Cooling method:</b>	Liquid		
<b>Comments:</b>	None		

### 2.2. CYLINDER HEAD

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

### 2.3. LUBRICATION

<b>Method:</b>	Wet sump	<b>Oil tank location:</b>	N/A
<b>Dry sump pump type:</b>	N/A	<b>Location:</b>	N/a
<b>Oil cooler standard:</b>	No	<b>Location:</b>	N/A
<b>Comments:</b>	Oil cooler allowed		

### 2.4. IGNITION SYSTEM

<b>Type:</b>	Points, Coil and Distributor		
<b>Make:</b>	Lucas		
<b>Comments:</b>	None		

### 2.5. FUEL SYSTEM

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

**SECTION 3 - TRANSMISSION**

**3.1. CLUTCH**

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

**3.2. TRANSMISSION**

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

**3.3. FINAL DRIVE**

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

**3.4. TRANSMISSION SHAFTS (EXPOSED)**

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

**3.5. WHEELS & TYRES**

<b>Wheel type - Original:</b>	Disc	<b>Material - Original:</b>	Steel
<b>Wheel type - Allowed:</b>	Cast alloy	<b>Material - Allowed:</b>	Aluminium alloy
<b>Fixture method:</b>	Bolt on Centre lock	<b>No. studs:</b>	Four
<b>Wheel dia. &amp; rim width</b>	<b>FRONT</b>		<b>REAR</b>
<b>Original:</b>	4.5" x 13"		4.5" x 13"
	5.5" x 13"		5.5" x 13"
	6" x 13"		6" x 13"
<b>Allowed</b>	6" x 13"		6" x 13"
<b>Tyre Section:</b>			
<b>Original:</b>	5.20 x 13"		5.20 x 13"
<b>Allowed:</b>	175 x 13		175 x 13
<b>Aspect ratio - minimum:</b>	60% minimum aspect ratio.		
<b>Comments:</b>	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

<b>Tank Location:</b>	Under boot	<b>Capacity:</b>	35 litres
<b>Fuel pump, type:</b>	Mechanical	<b>Make:</b>	AC
<b>Comments:</b>	None		

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	Twelve	<b>Alternator fitted:</b>	Generator
<b>Battery Location:</b>	Engine bay		
<b>Comments:</b>	None		

### 4.3. BODYWORK

<b>Type:</b>	Open sports Fixed head coupe	<b>Material:</b>	GRP
<b>No. of seats:</b>	Two	<b>No. doors:</b>	Two
<b>Comments:</b>	Hardtop allowed		

### 4.4. DIMENSIONS

<b>Track - Front:</b>	1400 mm	<b>Rear:</b>	1410 mm
<b>Wheelbase:</b>	2150 mm	<b>Overall length:</b>	3700 mm
<b>Dry weight:</b>	704 kg		
<b>Comments:</b>	None		

### 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations
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**Appendix**