

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 1
Period of Original Manufacture:	19 <b>57</b> - 19 <b>60</b>		
Motorsport Australia Historic Group:	Sa		
Date of Issue of this Document:	30/6/2022		
NOTE	<b>E</b> Factory built competition variants of standard		
	production cars, without an identifiable competition in		
	the Group peri	od will be	accepted for classification in
	their originally	purchase	d 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

# 1.1. CHASSIS

Description:	Tubular steel space frame	
Period of Manufacture:	19 <b>57</b> - 19 <b>60</b>	
Manufacturer:	Lotus components	
Chassis Number From:	400/499, then 750/892	
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 dampe	Coil over damper				
Damper Type:	Telescopic	Telescopic Adjustable: No				
Anti-sway bar:	Yes	Yes Adjustable: No				
Suspension adjustable:	No	No Method: N/A				
Comments:	Spring rates and	Spring rates and ride height are unrestricted				

# 1.3. REAR SUSPENSION

I.J. KLAK JUJF ENJION						
Description:	Live axle	Live axle				
Spring Medium:	Coil over dar	Coil over damper				
Damper Type:	Telescopic		Adjustable	No		
Anti-sway bar:	No		Adjustable:	No		
Suspension adjustable:	Yes	Method:				
Comments:	Spring rates	and ride height are u	nrestricted			
	Original rear	Original rear axle of Standard "10" derivation may be replaced with BMC				
	"A" type rea	r axle.				

# 1.4. STEERING

Туре:	Rack and pinion	Make:	Alford and Alder	
Comments	Early cars fitted with Burman Worm and nut. All Series 1 cars may fit Rack			
	and pinion.			

## 1.5. BRAKES

	Front	Rear			
Туре:	Drum	Drum			
Dimensions:	203 mm x 38 mm	203 mm x 38 mm			
Material of drum/disc:	Cast iron	Cast iron			
No. cylinders/pots per wheel:	Тwo	One			
Actuation:	Hydraulic	Hydraulic			
Caliper make:	Girling				
Caliper type:	Fixed	Fixed			
Material:	Cast iron	Cast iron			
Master cylinder make:	Girling	Girling			
Туре:	Single				
Adjustable bias:	No				
Servo Fitted:	No	No			
Comments:	Twin master cylinders permi	tted.			
	Series 1 cars are not permitte	ed to fit disc brakes.			

### 2.1. ENGINE

Make:	Ford				
Model:	100E				
No. cylinders:	Four	Configuration:	In-line		
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four		
Bore – Original – BMC 948:	62.9 mm	Max allowed:	64.4 mm		
Stroke – original – BMC 948:	68.26 mm	Max allowed:	68.26 mm		
Capacity – original – BMC 948:	848 mm	Max allowed:	889 mm		
Bore – Original – - FWA	72.39 mm	Max allowed:	73.89 mm		
Stroke – original – FWA	66.67 cc	Max allowed:	66.67 cc		
Capacity – original - FWA	1098 cc	Max allowed:	1143 сс		
Bore – Original – 100E:	63.5 mm	Max allowed:	65 mm		
Stroke – original – 100E:	92.45 mm	Max allowed:	92.45 mm		
Capacity – original – 100E:	1172 сс	Max allowed:	1226 cc		
Identifying marks:					
Cooling method:	Liquid				
Comments:	Engine specifications may be 'maximised' provided the make of engine originally fitted to the subject car is retained.				

### 2.2. CYLINDER HEAD

	-					
Make:	BMC	BMC				
	Coven	Coventry Climax				
	Ford					
No. of valves/cylinder:	Two	Inlet:	One	Exhaust:	One	
No. of ports total:	Five	Inlet:	Two	Exhaust:	Three	
No. of camshafts:	One	Location:	Block	Drive:	Chain	
Valve actuation:	Тарре	ts				
Spark plugs/cylinder:	One	One				
Identifying marks:						
Comments:	Engine	Engine specifications may be 'maximised' provided the make of engine				
	origina	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 allow	ved	

# 2.4. IGNITION SYSTEM

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

# 2.5. FUEL SYSTEM

Carburettor Make:	SU	Model:	H2	
Carburettor Number:	Two			
Size:	N/A			
Fuel injection Make:	N/A	Type:	N/A	
Supercharged:	No	Type:	N/A	
Comments:	All cars may fit twin period carburettors.			
	Carburettor throat size unrestricted.			

### 3.1. CLUTCH

Make:	Girling
Туре:	Dry plate
Diameter:	
No. of Plates:	One
Actuation:	Hydraulic
Comments:	None

### 3.2. TRANSMISSION

Туре:	Synchromesh (2 <sup>nd</sup> , 3 <sup>rd</sup> )		
Make:	Ford 3 speed, & Austin A30 4 speed (Super Seven)		
Gearbox location:	Behind engine		
No. forward speeds:	Three & 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:	Standard	Model:	Model 10	
Туре	Live rear axle	Live rear axle		
Wheel drive method	Rear	Rear		
Ratios:	Various	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 Wire spoke	Materia	I - Original:	Steel	
Wheel type - Allowed:	Steel Disc Wire spoke	Materia	I - Allowed:	Steel	
Fixture method:	Bolt on	No. stuc	ls:	Four	
Wheel dia. & rim width	FRON	FRONT		REAR	
Original:	4" x 1	4" x 15"		4″ x 15″	
Allowed	4" x 15"		4" x 15"		
Tyre Section:					
Original:	520 x 15		520 x 15		
Allowed:	520 x 15		520 x 15		
Aspect ratio - minimum:	60% minimum aspect ratio.				
Comments:	Refer approved tyre list.				
	Centre lock wire wheels were optional and are permitted				

### 4.1. FUEL SYSTEM

Tank Location:	Rear	Capacity:	25 litres
Fuel pump, type:	Electrical or mechanical	Make:	
Comments:	Fuel pump free		

### 4.2. ELECTRICAL SYSTEM

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

### 4.3. BODYWORK

Туре:	Two seat Clubman Sports	Material:	Aluminium	
No. of seats:	Two	No. doors:	None	
Comments:	Cycle type fenders fitted to	Cycle type fenders fitted to all Series 1 cars.		
	"Egg crate" grille.	"Egg crate" grille.		

### 4.4. DIMENSIONS

Track - Front:	1194 mm	Rear:	1182 mm	
Wheelbase:	2235 mm	Overall length:	3124 mm	
Dry weight:	407 kg 436 kg Dependent on mech	-		
Comments:	None			

# 4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix