



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 2
Period of Original Manufacture:	July 1960 - 1968		
Motorsport Australia Historic Group:	Sb		
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:	July 1960 - 1968
Manufacturer:	Lotus components
Chassis Number From:	1004/2101
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 - Armstrong	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 Original rear axle of Standard "10" derivation may be replaced with BMC "A" type rear axle.		

1.4. STEERING

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

1.5. BRAKES

	Front	Rear
Type:	Disc	Drum
Dimensions:	242 mm	203 mm x 32 mm
Material of drum/disc:	Cast iron	Cast iron
Type:	Drum	Drum
Dimensions:	203 mm x 32 mm	203 mm x 32 mm
No. cylinders/pots per wheel:	Two	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:	Twin master cylinders permitted. All cars are permitted to fit disc brakes.	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Ford or BMC A-series		
Model:	100E, 105E 109E 116E		
No. cylinders:	Four	Configuration:	In-line
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore – Original – 100E:	63.5 mm	Max allowed:	65 mm
Stroke – original – 100E:	92.5 mm	Max allowed:	92.5 mm
Capacity – original – 100E:	1171 mm	Max allowed:	1227 mm
Bore – Original – - 109E	80.96 mm	Max allowed:	82.46 mm
Stroke – original – 109E	48.41 cc	Max allowed:	48.41 cc
Capacity – original – 109E	996 cc	Max allowed:	1034 cc
Bore – Original – 116E:	81 mm	Max allowed:	82.5 mm
Stroke – original – 116E:	72.8 mm	Max allowed:	72.8 mm
Capacity – original – 116E:	1499 cc	Max allowed:	1558 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:	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:			
Comments:	*- except for Ford 1172 side valve engined cars. 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
Carburettor Make – BMC engines:	SU	Model:	H4
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.		

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 (2 nd , 3 rd)
Make:	Ford – Anglia BMC - Sprite
Gearbox location:	Behind engine
No. forward speeds:	Ford – Anglia - Three BMC – Sprite – 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 engine cars may fit 4 speed gearbox. Ratios free.

3.3. FINAL DRIVE

Make:	Standard	Model:	Model 10
Type	Live rear axle		
Wheel drive method	Rear		
Ratios:	Various		
Differential type:	Hypoid bevel – free		
Comments:	Ratios free Limited slip differential allowed. Some cars fitted BMC rear axles. All cars may use either Standard or BMC rear axles		

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:	4.5" x 13"		4.5" 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.		

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Rear	Capacity:	25 litres
Fuel pump, type:	Mechanical	Make:	Ford or BMC
Comments:	Fuel pump free		

4.2. ELECTRICAL SYSTEM

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

4.3. BODYWORK

Type:	Two seat Clubman Sports	Material:	Aluminium
No. of seats:	Two	No. doors:	None
Comments:	"Clamshell" or Cycle type fenders optional		

4.4. DIMENSIONS

Track - Front:	1194 mm 1244 mm*	Rear:	1194 mm 1244 mm*
Wheelbase:	2235 mm	Overall length:	3124 mm
Dry weight:	407 kg 436 kg*		
Comments:	*- Dependent on mechanical specifications		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix