

Manufacturers Reference No. for Application

Mk XI /H/1



F.I.A. Recognition No.

118

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.1.

Federation Internationale de l'Automobile.

Form of Recognition in accordance with
Appendix J to the
International Sporting Code.

Manufacturer Lotus Cars Limited

Model Eleven Year of Manufacture 1962 1958

Serial No. of Chassis _____

Engine _____

Type of Coachwork G T

Recognition is valid from 1962 9 mai 1963 In category G.T.

Photograph to be affixed here & view of car from front right.



Hubert [unclear]

1120
105
95

Stamp of F.I.A./R.A.C. to be
affixed here.

Form: R.F.I.A.

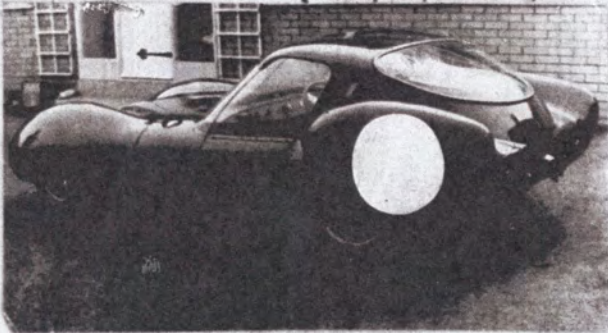
General description of car:

*Specify here material/s of
chassis/body construction*

Mild Steel Tubing, Aluminium and Fibreglass.

Photographs to be affixed below.

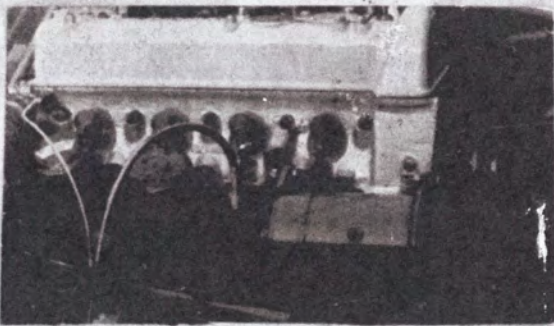
3/4 view of car from rear left



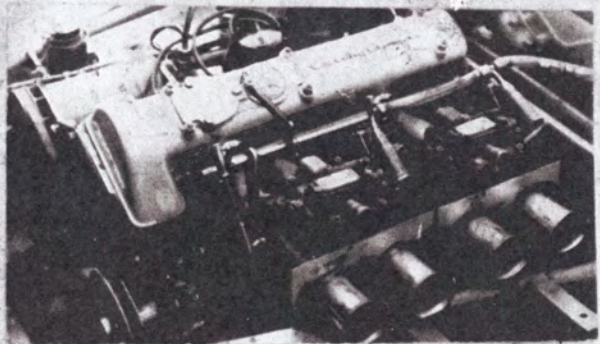
Interior view of car through driver's door.



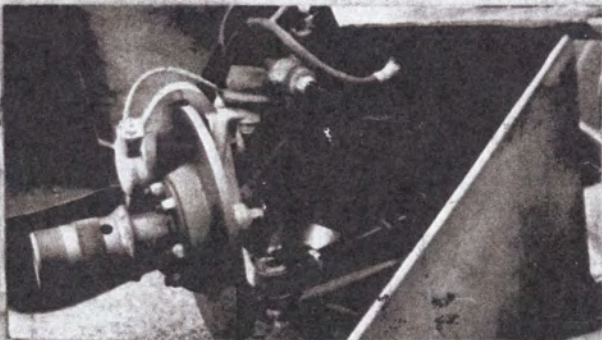
Engine unit with accessories from right.



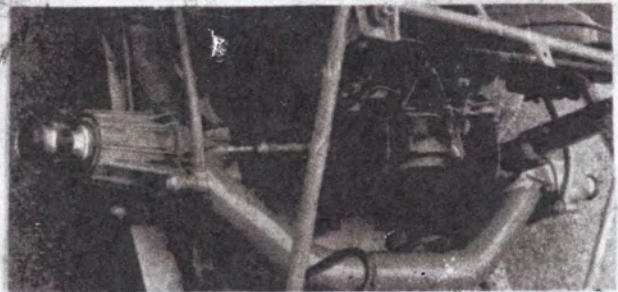
Engine unit with accessories from left.



Front axle complete (without wheels)



Rear axle complete (without wheels)



ENGINE

No. of cylinders Four In line Yes
 in V /
 opposed /
 Cycle 4 Stroke Firing order 1 - 3 - 4 - 2
 Capacity 1097 c.c. Bore 72.4 m.m. Stroke 66.6 m.m.
 Maximum rebore // Resultant capacity _____ c.c.
 Material of cylinder block Aluminium Alloy Material of sleeves, if fitted Cast Iron
 Distance from crankshaft centre line to top face of block at centre line of cylinders 190.5 m.m.
 Material of cylinder head Aluminium Volume of one combustion chamber Approx 5.5 c.c.
 Compression ratio 10.6
 Material of piston Aluminium No. of piston rings 2 comp. 1 scraper
 Distance from gudgeon pin centre line to highest point of piston crown 36.207 m.m.
 Bearings { Crankshaft main bearings: Type Shell Dia. 53.975 m.m.
 Connecting rod big end: Type Shell Dia. 47.62 m.m.
 Flywheel 6.82 kg.
 Weights { Crankshaft 11.567 kg.
 Connecting rod .461 kg.
 Piston with rings .320 kg.
 Gudgeon pin .099 kg.
 No. of valves per cylinder Two Method of valve operation Direct
 No. of camshafts One Location of camshafts O.H.C.
 Type of camshaft drive Duplex Chain
 Diameter of valves: Inlet 34.29 m.m. Exhaust 30.48 m.m.
 Diameter of port at valve seat: Inlet 28.575 m.m. Exhaust 26.67 m.m.
 Tappet clearance for checking timing: Inlet 0.15 m.m. Exhaust 0.15 m.m.
 Valves open: Inlet 30° BTDC Exhaust 60° BEDC
 Valves close: Inlet 60° ABDC Exhaust 30° ATDC
 Maximum valve lift: Inlet 8.89 m.m. Exhaust 8.89 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 175° Exhaust 175°
 ½ Maximum lift: Inlet 114° Exhaust 114°
 Valve springs: Inlet _____ Exhaust _____
 Type Coil _____ Coil _____
 No. per valve 2 _____ 2 _____
 Carburettor: Type Horizontal No. fitted 2
 (up or down draft, horizontal)
 Make Weber Model 38 DCO
 Flange hole diameter 38 m.m. Choke diameter 33 m.m.
 Main jet identification No. 110 - 120

Filter Type

No. fitted

Inlet manifold

Diameter of flange hole at carburettor

38

m.m

Diameter of flange hole at port

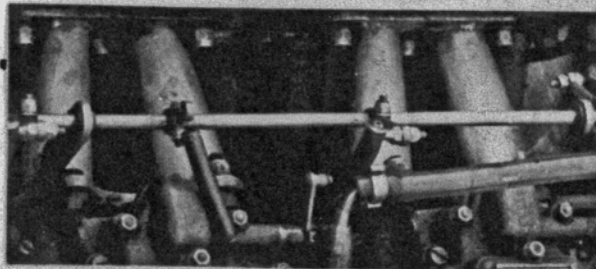
27.94

m.m

Photograph of combustion chamber to be affixed here



Photograph of inlet manifold to be affixed here



Exhaust manifold

Diameter of flange hole at port

38.57

m.m

Diameter of flange hole at connection to silencer inlet pipe

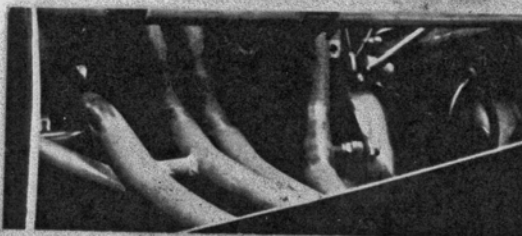
38.1

m.m

Photograph of piston showing crown to be affixed here



Photograph of exhaust manifold to be affixed here



ENGINE ACCESSORIES

Make of fuel pump

S. V.

No. fitted

One

Method of operation

Electric

Type of ignition system

Coil

coil or magneto

Make of ignition

Lucas

Model

D 2441

Method of advance and retard

Centrifugal

Make of ignition coil

Lucas

Model

H A 12

No. of ignition coils

One

Voltage

12

Make of dynamo

Lucas

Model

G.39P/2

Voltage of dynamo

12

Maximum output

19

amps.

Make of starter motor

Lucas

Model

M 35 G

Battery: No. fitted

One

Voltage

12

Capacity

32/20

amp. hour

Oil Cooler (if fitted) type

Capacity

pints

Make **Lotus** Model **Eleven** F.I.A. Recognition No. **Mk XI/H/1**
 Manufacturers Reference No. of Application

TRANSMISSION

Make of clutch **Borg - Beck** Type **Single Dry Plate**
 Diameter of clutch plate **8"** No. of plates **One**
 Method of operating clutch **Hydraulic**
 Make of gearbox **B. M. C.** Type **4 Speed Synchro-mesh**
 No. of gearbox ratios **Four Forward one Reverse**
 Method of operating gearshift **Direct Manual**
 Location of gearshift **Central in Propshaft Tunnel**
 Is overdrive fitted? **No**
 Method of controlling overdrive, if fitted **/**

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	2.45	11/28			3.64	11/28		
2.	1.62	19/32			2.22	20/31		
3.	1.27	22/29			1.77	26/25		
4.	1.00	-			1.00	-		
5.								

Type of final drive **Hypoid Crown Wheel & Pinion**
 Type of differential **Bevel gear or Z.F. Limited Slip Diff (Optional Extra)**
 Final drive ratio **4.55 : 1** Alternatives **3.7, 3.9, 4.2, 4.6, 4.9, 5.4**
 No. of teeth **9/41** Alternatives **11/41 10/39 9/38 8/37 8/39**
 Overdrive ratio, if fitted **-**

WHEELS

Type **Spoked or Bolton Magnesium** Weight **6.7 or 5.0** kg
 Method of attachment **Knock-on Spline or Studs & Nuts**
 Rim diameter **381** m.m. Rim width **114.2 or 127.0** m.m.
 Tyre size: Front **4.50** Rear **5.00**

BRAKES

Method of operation **Hydraulic**
 Is assistance fitted? **No**
 Type **-**
 No. of hydraulic master cylinders **Two** Bore **19.05**

	Front		Rear	
No. of wheel cylinders	4		4	
Bore of wheel cylinders	50.8	m.m.	38.1	m.m.
Inside diameter of brake drums	/	m.m.	/	m.m.
No. of shoes per brake	/		/	
Outside diameter of brake discs	242	m.m.	242	m.m.
No. of pads per brake	2		2	
Dimensions of brake linings per shoe or pad (if all shoes or pads in each brake are not of same dimensions, specify each)				

	Front		Rear	
Length	/	m.m.	/	m.m.
	/	m.m.	/	m.m.
Width	/	m.m.	/	m.m.
Total area per brake	5,800	m.m. ²	3,900	m.m. ² Not including H/Bs

SUSPENSION

	Front	Rear
Type	Wishbone	De Dion
Type of spring	Helical Coil	Helical Coil
Is stabiliser fitted?	Yes	No
Type of shock absorber	Telescopic Hydraulic	Telescopic Hydraulic
No. of shock absorbers	two	two

STEERING

Type of steering gear	Rack & Pinion
Turning circle of car	13 m., approx.
No. of turns of steering wheel from lock to lock	2

CAPACITIES AND DIMENSIONS

Fuel tank	36 litres	Sump	4.55 litres
Radiator	6.75 litres		
Overall length of car	348 cm.	Overall width of car	153 cm.
Overall height of car, unladen (with hood up, if appropriate)	111 cm.		
Distance from floor to top of windscreen:			
Highest point	85 - 33 1/2"	Lowest point	54 - 2 1/4"
Width of windscreen:			
Maximum width	123 - 4 1/2"	Minimum width	103 - 4 1/2"
*Interior width of car	146 57 1/2" cm.		
No. of seats	2		
Track: Front	117 cm.	Rear	120 cm.
Wheelbase	224 cm.	Ground clearance	120 m.m.

* (To be measured at the immediate rear of the steering wheel, and the width quoted to be maintained in a vertical plane of not less than 25 cms.)

Overall weight with water, oil and spare wheel, but without fuel 458 kgs.

Additional information for cars fitted with two-cycle engines

System of cylinder scavenging.....

Type of lubrication

Size of inlet port:

Length measured around cylinder wall

m.m.

Height

m.m.

Area

m.m.²

Size of exhaust port:

Length measured around cylinder wall

m.m.

Height

m.m.

Area

m.m.²

Size of transfer port:

Length measured around cylinder wall

m.m.

Height

m.m.

Area

m.m.²

Size of piston port:

Length measured around piston

Height

m.m.

Area

Method of pre-compression

Bore and stroke of pre-compression cylinder, if fitted

Distance from top of cylinder block to lowest point of inlet port

Distance from top of cylinder block to highest point of exhaust port

Distance from top of cylinder block to highest point of inlet port

Draw

Supercharger, if fitted

Make

Model or Type No.

Type of drive

Ratio of drive

Fuel injection, if fitted

Make of pump

Model or Type No.

Make of injectors

Model or Type No.

Location of injectors

Optional equipment affecting preceding information:—

40DCOE2 Weber Carbs & Manifolds

Extra Fuel Tank

Hard Top

