

Manufacturers Reference No. for Application

LCX6/61



F.I.A. Recognition No.

1094

# 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 Morris Motors Limited

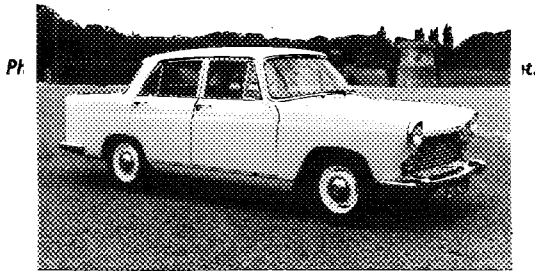
Model Morris Oxford Series VI Year of Manufacture 1961

Serial No. of Chassis 1/HS6

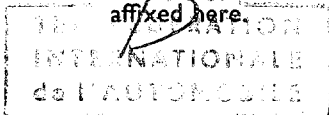
Engine 16AMW/U/H or L

Type of Coachwork Saloon - 4 door

Recognition is valid from 16-IV-62 In category Touring



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



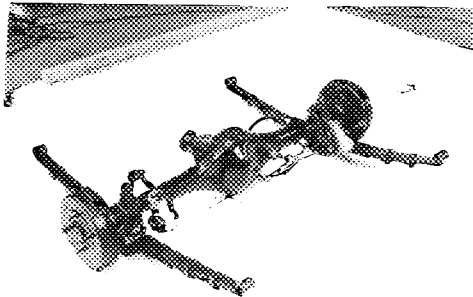
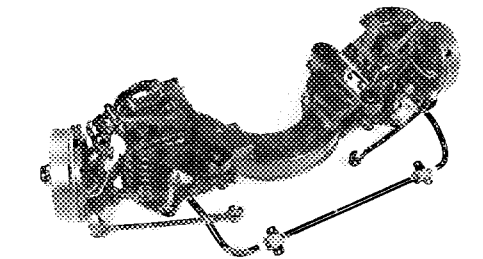
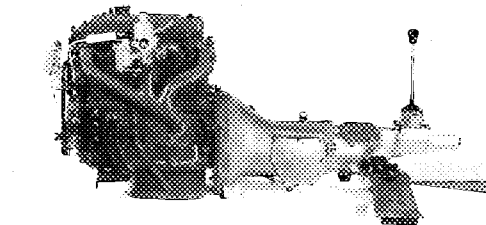
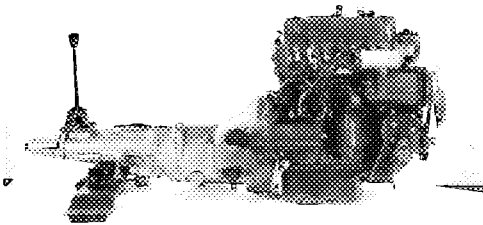
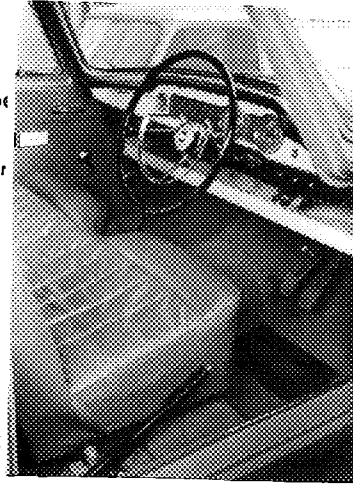
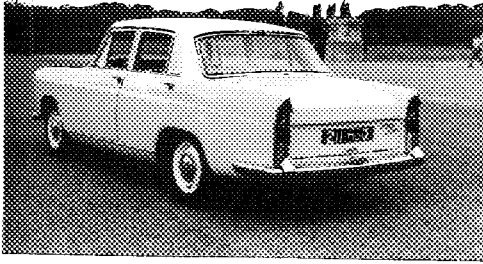
Form: R.F.I.A.

**General description of car:**

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

4 door steel saloon of unitary construction powered by 4 cylinder OHV engine driving rear wheels through 4 speed synchromesh or automatic gearbox. Suspension by wishbone and coil spring at front and semi-elliptic leaf spring at rear.

Photographs to be affixed by



**ENGINE**

in line ..... Yes .....

No. of cylinders ..... 4 ..... in V ..... - .....  
 opposed ..... - .....

Cycle ..... 4 stroke ..... Firing order ..... 1,3,4,2 .....

Capacity 1622 ..... c.c. Bore 76.2 ..... m.m. Stroke 88.9 ..... m.m.

Maximum rebore ..... 1.016mm ..... Resultant capacity ..... 1666 ..... c.c.

Material of cylinder block Cast Iron ..... Material of sleeves, if fitted ..... - .....

Distance from crankshaft centre line to top face of block at centre line of cylinders ..... 252.273/252.527 ..... m.m.

Material of cylinder head Cast Iron ..... Volume of one combustion chamber ..... 38.7 ..... c.c.

Compression ratio 8.3 or 7.2:1 .....

Material of piston Aluminium alloy ..... No. of piston rings ..... 4 .....

Distance from gudgeon pin centre line to highest point of piston crown ..... 42.07 ..... m.m.

Bearings { Crankshaft main bearings: Type Renewable shells Dia. 50.82 ..... m.m.  
 Connecting rod big end: Type Renewable shells Dia. 47.66 ..... m.m.

Weights { Flywheel ..... 13.5 ..... kg.  
 Crankshaft ..... 14.9 ..... kg.  
 Connecting rod ..... 1.02 ..... kg.  
 Piston with rings ..... .36 ..... kg.  
 Gudgeon pin ..... .11 ..... kg.

No. of valves per cylinder ..... 2 ..... Method of valve operation Push rod & rockers

No. of camshafts ..... 1 ..... Location of camshafts Cylinder block

Type of camshaft drive Chain .....

Diameter of valves: Inlet ..... 38.1 ..... m.m. Exhaust ..... 32.54 ..... m.m.

Diameter of port at valve seat: Inlet ..... 33.34 ..... m.m. Exhaust ..... 30.00 ..... m.m.

Tappet clearance for checking timing: Inlet ..... .53 ..... m.m. Exhaust ..... .53 ..... m.m.

Valves open: Inlet TDC ..... Exhaust 35° BBDC

Valves close: Inlet 50° ABDC ..... Exhaust 15° ATDC

Maximum valve lift: Inlet 7.899 ..... m.m. Exhaust 7.899 ..... m.m.

Degrees of crankshaft rotation from zero to—

Maximum lift: Inlet 115° ATDC ..... Exhaust 80° ABDC

¾ Maximum lift: Inlet 66° ATDC ..... Exhaust 31° ABDC

Valve springs: Inlet ..... Exhaust

Type Single Helical coil ..... Single helical coil

No. per valve One ..... One

Carburettor: Type Semi down draught ..... No. fitted One

(up or down draft, horizontal)

Make S.U. ..... Model HS2 or alternative H4

Flange hole diameter 31.75 ..... m.m. Choke diameter ..... - ..... m.m.

Main jet identification No. Needle standard GX

**ENGINE**

in line ..... Yes .....

No. of cylinders..... 4 ..... in V ..... - .....  
 opposed ..... - .....

Cycle..... 4 stroke ..... Firing order..... 1,3,4,2.....

Capacity..... 1622 ..... c.c. Bore..... 76.2 ..... m.m. Stroke..... 88.9 ..... m.m.

Maximum rebore..... 1.016mm ..... Resultant capacity..... 1666 ..... c.c.

Material of cylinder block..... Cast Iron ..... Material of sleeves, if fitted..... - .....

Distance from crankshaft centre line to top face of block at centre line of cylinders..... 252.273/252.527 ..... m.m.

Material of cylinder head..... Cast Iron ..... Volume of one combustion chamber..... 38.7 ..... c.c.

Compression ratio..... 8.3 or 7.2:1 .....

Material of piston..... Aluminium alloy ..... No. of piston rings..... 4 .....

Distance from gudgeon pin centre line to highest point of piston crown..... 42.07 ..... m.m.

Bearings { Crankshaft main bearings: Type..... Renewable shells Dia..... 50.82 ..... m.m.  
 Connecting rod big end: Type..... Renewable shells Dia..... 47.66 ..... m.m.

Weights { Flywheel..... 13.5 ..... kg.  
 Crankshaft..... 14.9 ..... kg.  
 Connecting rod..... 1.02 ..... kg.  
 Piston with rings..... .36 ..... kg.  
 Gudgeon pin..... .11 ..... kg.

No. of valves per cylinder..... 2 ..... Method of valve operation..... Push rod & rockers

No. of camshafts..... 1 ..... Location of camshafts..... Cylinder block

Type of camshaft drive..... Chain .....

Diameter of valves: Inlet..... 38.1 ..... m.m. Exhaust..... 32.54 ..... m.m.

Diameter of port at valve seat: Inlet..... 33.34 ..... m.m. Exhaust..... 30.00 ..... m.m.

Tappet clearance for checking timing: Inlet..... .53 ..... m.m. Exhaust..... .53 ..... m.m.

Valves open: Inlet..... TDC ..... Exhaust..... 35° BEDC

Valves close: Inlet..... 50° ABDC ..... Exhaust..... 15° ATDC

Maximum valve lift: Inlet..... 7.899 ..... m.m. Exhaust..... 7.899 ..... m.m.

Degrees of crankshaft rotation from zero to—

Maximum lift: Inlet..... 115° ATDC ..... Exhaust..... 80° ABDC

¾ Maximum lift: Inlet..... 66° ATDC ..... Exhaust..... 31° ABDC

Valve springs: Inlet ..... Exhaust

Type..... Single Helical coil ..... Single helical coil

No. per valve..... One ..... One

Carburettor: Type..... Semi down draught ..... No. fitted..... One

(up or down draft, horizontal)

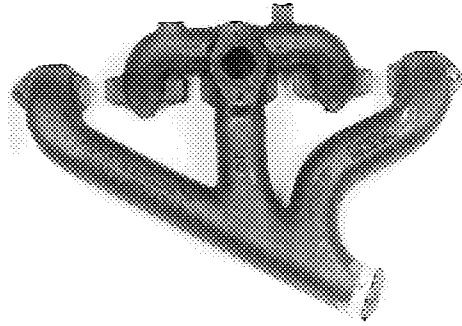
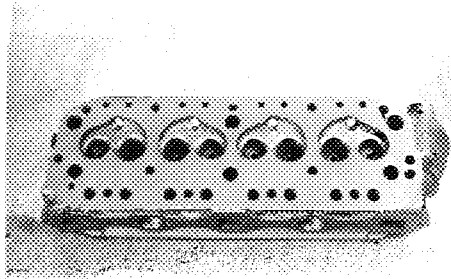
Make..... S.U. ..... Model..... HS2 or alternative H4

Flange hole diameter..... 31.75 ..... m.m. Choke diameter..... - ..... m.m.

Main jet identification No..... Needle standard GX

Air filter: Type Combined cleaner/silencer No. fitted One

Inlet manifold:  
 Diameter of flange hole at carburettor 31.75 m.m.  
 Diameter of flange hole at port 33.32 m.m.



Exhaust manifold:  
 Diameter of flange hole at port Outer 36.51 x 30.16 centre 36.51 x 33.33 m.m.  
 Diameter of flange hole at connection to silencer inlet pipe 34.92 m.m.

Photog



ixed here.

Photograph of exhaust manifold to be affixed here.

see above

**ENGINE ACCESSORIES**

Make of fuel pump S.U. No. fitted One  
 Method of operation Electrical  
 Type of ignition system Coil coil or magneto  
 Make of ignition Lucas Model 25 D.4  
 Method of advance and retard Vacuum and centrifugal  
 Make of ignition coil Lucas Model L.A. 12  
 No. of ignition coils One Voltage 12  
 Make of dynamo Lucas Model C40  
 Voltage of dynamo 12 Maximum output 22 amps.  
 Make of starter motor Lucas Model M. 35G  
 Battery: No. fitted One Voltage 12 Capacity 57 amp. hour  
 Oil Cooler (if fitted) type \_\_\_\_\_ Capacity \_\_\_\_\_ pints

**TRANSMISSION**

Make of clutch Borg & Beck Type 8A6G  
 Diameter of clutch plate 8" - 203mm No. of plates One  
 Method of operating clutch Hydraulic  
 Make of gearbox British Motor Corporation Type 4 speed synchromesh or automatic  
 No. of gearbox ratios 4 forward, 1 reverse  
 Method of operating gearshift Mechanical, Centre or column gear change  
 Location of gearshift Central on floor or steering column  
 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.	3.6363	$\frac{30}{21} \times \frac{28}{11}$	2.44:1	$\frac{25}{26} \times \frac{11}{28}$				
2.	2.2143	$\frac{30}{21} \times \frac{31}{20}$	1.618:1	$\frac{25}{26} \times \frac{19}{32}$				
3.	1.3736	$\frac{30}{21} \times \frac{25}{26}$	1.266:1	$\frac{25}{26} \times \frac{29}{22}$				
4.	1.0	$\frac{30}{21} \times \frac{25}{26}$	1.0:1	$\frac{25}{26} \times \frac{22}{22}$				
$\sqrt{R}$	4.755	$\frac{30 \times 28 \times 17}{21 \times 11 \times 13}$	3.199:1					

Type of final drive Hypoid bevel - three quarter floating  
 Type of differential Bevel  
 Final drive ratio 4.3/1 Alternatives 4.55:1, 4.875  
 No. of teeth 10/43 9/41 8/39  
 Overdrive ratio, if fitted -

**WHEELS**

Type Disc Weight 6.75 kg.  
 Method of attachment Studs in brake drum  
 Rim diameter 355.6 m.m. Rim width 101.6 m.m.  
 Tyre size: Front 5.90-14 Rear 5.90-14

**BRAKES**

Method of operation Hydraulic  
 Is servo assistance fitted? No  
 Type of servo, if fitted -  
 No. of hydraulic master cylinders One Bore 17.78 m.m.

	Front		Rear
No. of wheel cylinders	2 per wheel		1 per wheel
Bore of wheel cylinders	22.225	m.m.	22.225
Inside diameter of brake drums	228.6	m.m.	228.6
No. of shoes per brake	Two		Two
Outside diameter of brake discs	-	m.m.	-
No. of pads per brake	-		-
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	219	m.m.	219
	-	m.m.	-
Width	63.5	m.m.	44.45
Total area per brake	27820	m.m. <sup>2</sup>	20110
			m.m. <sup>2</sup>

#### SUSPENSION

	Front		Rear
Type	Independent		Semi-elliptic
Type of spring	Coil		Leaf
Is stabiliser fitted?	Yes		Yes
Type of shock absorber	Hydraulic-lever type		Hydraulic-lever type
No. of shock absorbers	Two		Two

#### STEERING

Type of steering gear	Cam & Peg	
Turning circle of car	11.43	m., approx.
No. of turns of steering wheel from lock to lock	28	

#### CAPACITIES AND DIMENSIONS

Fuel tank	45.4	litres	Sump	4.5	litres
Radiator	6.8	litres			
Overall length of car	443	cm.	Overall width of car	161	cm.
Overall height of car, unladen (with hood up, if appropriate)	149.5	cm.			
Distance from floor to top of windscreen:					
Highest point	139.7	cm.	Lowest point	103.5	cm.
Width of windscreen:					
Maximum width	127	cm.	Minimum width	111.7	cm.
*Interior width of car	133	cm.			
No. of seats	Four				
Track: Front	128.6	cm.	Rear	131.1	cm.
Wheelbase	254.6	cm.	Ground clearance	149	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	1078	kg.			

Optional equipment affecting preceding information:—

Sump guard  
Export suspension  
Twin fuel pumps



