

Manufacturers Reference No. for Application

22/66



F.I.A. Recognition No.

1187

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

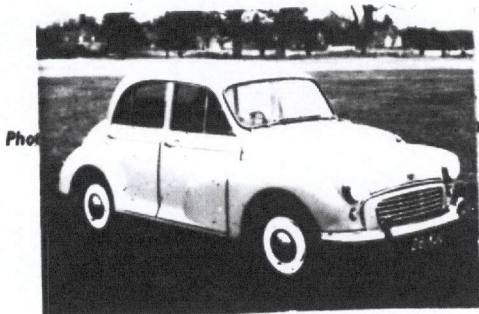
Model MORRIS MINOR 1000 Year of Manufacture 1962

Serial No. of Chassis MA S5 -

Engine 10 MA-U-H

Type of Coachwork SALICON OR CONVERTIBLE

Recognition is valid from 9/5/63 In category Touring



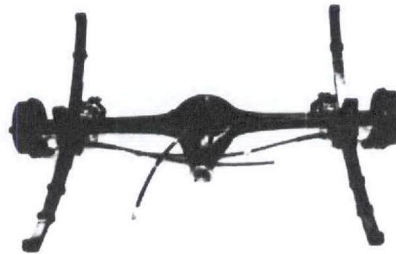
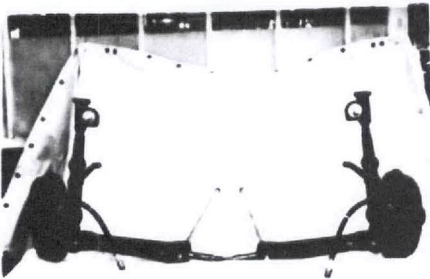
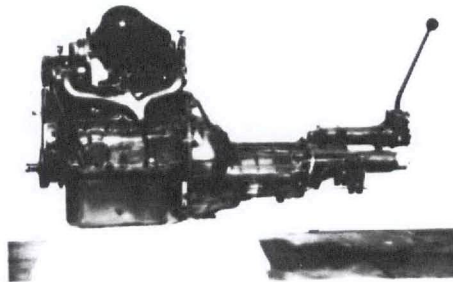
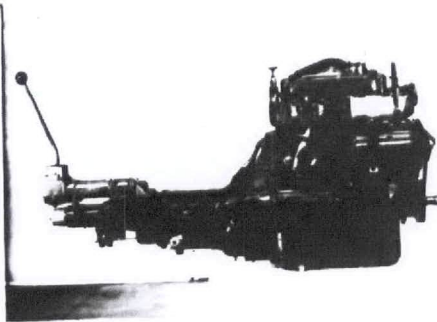
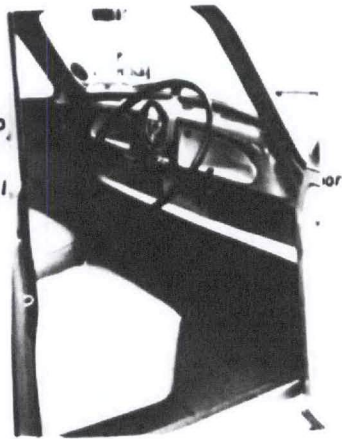
General description of car:

Specify here material/s of chassis/body construction

Saloon or convertible body of steel unitary construction powered by 4 cylinder O.V engine driving hypoid 4 floating rear axle through 4 speed synchromesh gearbox. Front suspension torsion bars. Rear suspension - semi elliptic leaf springs.



Parts to be affixed b



ENGINE

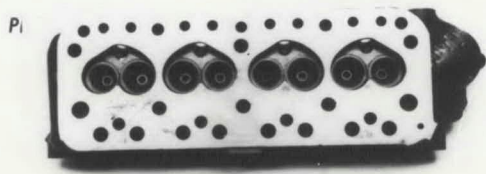
in line YES
 No. of cylinders 4 in V _____
 opposed _____
 Cycle 4 Stroke Firing order 1,3,4,2.
 Capacity 1098 c.c. Bore 64.58 m.m. Stroke 83.72 m.m.
 Maximum rebore + 0.020" Resultant capacity 1116 c.c.
 Material of cylinder block Cast Iron Material of sleeves, if fitted _____
 Distance from crankshaft centre line to top face of block at centre line of cylinders 218.31 / 218.57 m.m.
 Material of cylinder head Cast Iron Volume of one combustion chamber 24.8 c.c.
 Compression ratio 8.5:1
 Material of piston Aluminium Alloy No. of piston rings 4
 Distance from gudgeon pin centre line to highest point of piston crown 30.33 m.m.
 Bearings { Crankshaft main bearings: Type Copper Lead Dia. 44.46 m.m.
 Connecting rod big end: Type Copper Lead Dia. 41.28 m.m.
 Weights { Flywheel 9.5 kg.
 Crankshaft 10.0 kg.
 Connecting rod 0.68 kg.
 Piston with rings 0.183 kg.
 Gudgeon pin 0.057 kg.
 No. of valves per cylinder 2 Method of valve operation Push rod & Rocker
 No. of camshafts 1 Location of camshafts Crankcase
 Type of camshaft drive Chain
 Diameter of valves: Inlet 29.4 m.m. Exhaust 25.4 m.m.
 Diameter of port at valve seat: Inlet 27.1 m.m. Exhaust 23.1 m.m.
 Tappet clearance for checking timing: Inlet 0.30 m.m. Exhaust 0.30 m.m.
 Valves open: inlet 5° BTDC Exhaust 51° BBDC
 Valves close: Inlet 45° ABDC Exhaust 21° ATDC
 Maximum valve lift: Inlet 7.9 m.m. Exhaust 7.9 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 110° ATDC Exhaust 105° BTDC
 ¾ Maximum lift: Inlet 62½ ATDC Exhaust 157° 36' BTDC
 Valve springs: Inlet _____ Exhaust _____
 Type Coil _____ Coil _____
 No. per valve 1 _____ 1 _____
 Carburettor: Type Semi Down Draught No. fitted 1
 (up or down draft, horizontal)
 Make S.U. Model HS2
 Flange hole diameter 31.75 m.m. Choke diameter 31.75 m.m.
 Main jet identification No. 0.090"

Air filter: Type Combined air/cleaner silencer No. fitted 1

Inlet manifold:

Diameter of flange hole at carburettor 31.75 m.m.

Diameter of flange hole at port 26.95 m.m.



Exhaust manifold:

Diameter of flange hole at port End Ports - 26.95 x 22.2 Centre 26.95 x 25.4 m.m.

Diameter of flange hole at connection to silencer inlet pipe 28.55 m.m.

Phot



Photograph of exhaust manifold to be affixed here.

See Above

ENGINE ACCESSORIES

| | | | | | |
|------------------------------|---------------------------------|----------------|-----------------|----------|---------------------|
| Make of fuel pump | <u>S.U.</u> | No. fitted | <u>1</u> | | |
| Method of operation | <u>Electrical</u> | | | | |
| Type of ignition system | <u>Coil</u> | | coil or magneto | | |
| Make of ignition | <u>Lucas</u> | Model | <u>25D4</u> | | |
| Method of advance and retard | <u>Centrifugal & Vacuum</u> | | | | |
| Make of ignition coil | <u>Lucas</u> | Model | <u>LA12</u> | | |
| No. of ignition coils | <u>1</u> | Voltage | <u>12</u> | | |
| Make of dynamo | <u>Lucas</u> | Model | <u>G40</u> | | |
| Voltage of dynamo | <u>12</u> | Maximum output | <u>19</u> amps. | | |
| Make of starter motor | <u>Lucas</u> | Model | <u>M 35 G</u> | | |
| Battery: No. fitted | <u>1</u> | Voltage | <u>12</u> | Capacity | <u>43</u> amp. hour |
| Oil Cooler (if fitted) type | | Capacity | | | pints |

Make **MORRIS** Model **MINOR 1000** F.I.A. Recognition No. **MM/62**

Manufacturers Reference No. of Application

TRANSMISSION

Make of clutch **Borg & Beck** Type **7 $\frac{1}{4}$ AGG**
 Diameter of clutch plate **7 $\frac{1}{4}$ "** No. of plates **1**
 Method of operating clutch **Hydraulic**
 Make of gearbox **B.M.C.** Type **Synchromesh 2nd 3rd top**
 No. of gearbox ratios **4 forward 1 reverse**
 Method of operating gearshift **Remote control**
 Location of gearshift **Central on floor**
 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. | 3.627:1 | $\frac{28}{19} \times \frac{32}{13}$ | 3.2:1 | $\frac{26}{20} \times \frac{32}{13}$ | | | | |
| 2. | 2.172:1 | $\frac{28}{19} \times \frac{28}{19}$ | 1.916: | $\frac{26}{20} \times \frac{28}{19}$ | | | | |
| 3. | 1.412:1 | $\frac{28}{19} \times \frac{23}{24}$ | 1.357: | $\frac{24}{20} \times \frac{24}{23}$ | | | | |
| 4. | 1.0:1 | | 1.0:1 | | | | | |
| 5. | | | | | | | | |

Type of final drive **Hypoid bevel - three quarter floating**
 Type of differential **Bevel**
 Final drive ratio **4.22:1** Alternatives **4.55 4.875**
 No. of teeth **9/38** **9/41 8/39**
 Overdrive ratio, if fitted **Not fitted**

WHEELS

Type **Ventilated disc** Weight **14.74** kg.
 Method of attachment **4 studs & nuts.**
 Rim diameter **355.6** m.m. Rim width **76.2** m.m.
 Tyre size: Front **520 x 14** Rear **520 x 14**

BRAKES

Method of operation **Hydraulic**
 Is servo assistance fitted? **No**
 Type of servo, if fitted

No. of hydraulic master cylinders **1** Bore **20.64** m.m.

| | Front | | Rear | |
|---|-------|------|-------|------|
| No. of wheel cylinders | 4 | | 2 | |
| Bore of wheel cylinders | 23.81 | m.m. | 19.05 | m.m. |
| Inside diameter of brake drums | 203.2 | m.m. | 177.8 | m.m. |
| No. of shoes per brake | 2 | | 2 | |
| Outside diameter of brake discs | | m.m. | | 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 | 195 | m.m. | 165.9 | m.m. |
| | | m.m. | | m.m. |
| Width | 37.3 | m.m. | 30.95 | m.m. |
| Total area per brake | 14520. | m.m. ² | 10300. | m.m. ² |

SUSPENSION

| | Front | | Rear | |
|------------------------|----------------------|--|----------------------|--|
| Type | Independent | | Semi elliptic | |
| Type of spring | Torsion bar | | Leaf | |
| Is stabiliser fitted? | No | | No | |
| Type of shock absorber | Hydraulic Lever Type | | Hydraulic Lever Type | |
| No. of shock absorbers | 2 | | 2 | |

STEERING

| | | |
|--|---------------|-------------|
| Type of steering gear | Rack & Pinion | |
| Turning circle of car | 10.06 | m., approx. |
| No. of turns of steering wheel from lock to lock | 2½ | |

CAPACITIES AND DIMENSIONS

| | | | | | |
|---|-------|--------|----------------------|-------|--------|
| Fuel tank | 29.5 | litres | Sump | 3.4 | litres |
| Radiator | 5.55 | litres | | | |
| Overall length of car | 376 | cm. | Overall width of car | 155 | cm. |
| Overall height of car, unladen (with hood up, if appropriate) | 152 | cm. | | | |
| Distance from floor to top of windscreen : | | | | | |
| Highest point | 133 | cm. | Lowest point | 106 | cm. |
| Width of windscreen : | | | | | |
| Maximum width | 104 | cm. | Minimum width | 104 | cm. |
| *Interior width of car | 122 | cm. | | | |
| No. of seats | 4 | | | | |
| Track: Front | 128.6 | cm. | Rear | 127.8 | cm. |
| Wheelbase | 218.4 | cm. | Ground clearance | 171 | 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 766.0 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.....m.m.

Height.....m.m. Area.....m.m.²

Method of pre-compression.....

Bore and stroke of pre-compression cylinder, if fitted.....m.m.

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

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

Distance from top of cylinder block to highest point of transfer port.....m.m.

Drawing of cylinder ports.

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:—