

Manufacturers Reference No. for Application

4/63/DAG



F.I.A. Recognition No.

1174

# 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..... FORD MOTOR COMPANY LTD.  
Model..... Zodiac Mk. III..... Year of Manufacture..... 1962  
Serial No. of Chassis..... Z64A or Z 64B 116125  
Engine..... 0005  
Type of Coachwork..... Saloon  
Recognition is valid from..... 29 JANV 1963..... In category..... Touring

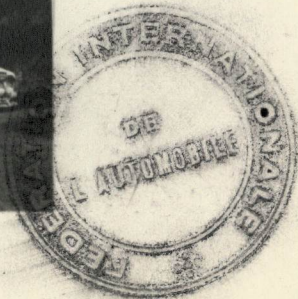
liste 9/19

Photograph to be affixed here  $\frac{3}{4}$  view of car from front right.



*Aubert/Chesnut*

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 saloon

All steel welded body/Frame construction

Photographs to be affixed below.

*¾ view of car from rear left.*



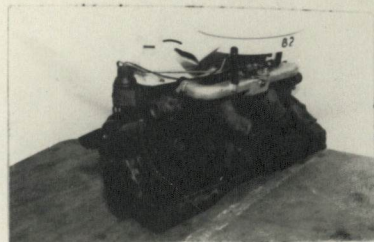
*Interior view of car through driver's door.*



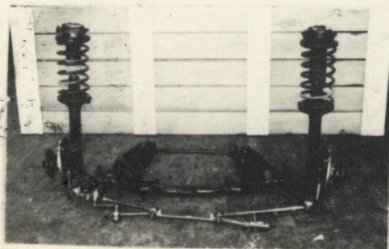
*Engine unit with accessories from right.*



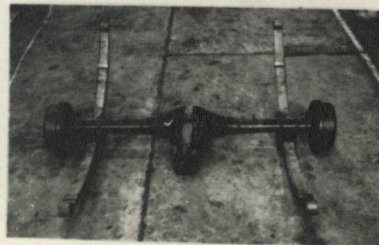
*Engine unit with accessories from left.*



*Front axle complete (without wheels).*



*Rear axle complete (without wheels).*



# ENGINE

in line Yes  
 No. of cylinders Six in V .....  
 opposed .....  
 Cycle Four stroke Firing order 1-5-3-6-2-4  
 Capacity 2552 c.c. Bore 82.55 m.m. Stroke 79.50 m.m.  
 Maximum rebore 1.524 Resultant capacity 2648 c.c.  
 Material of cylinder block Cast iron Material of sleeves, if fitted None  
 Distance from crankshaft centre line to top face of block at centre line of cylinders 221.49 m.m.  
 Material of cylinder head Cast iron Volume of one combustion chamber 12.15 c.c.  
 Compression ratio 9.3 : 1  
 Material of piston Aluminium Alloy No. of piston rings Three  
 Distance from gudgeon pin centre line to highest point of piston crown 15.898/16.05 m.m.  
 Bearings { Crankshaft main bearings: Type Lead bronze or copper lead Dia. 60.35/60.361 m.m.  
 Connecting rod big end: Type Copper lead Dia. 53.987/54.0 m.m.  
 Weights { Flywheel Assy. 10.251 kg.  
 Crankshaft 38.329 kg.  
 Connecting rod assy. 0.28186 kg.  
 Piston with rings 0.4867 kg.  
 Gudgeon pin 0.1265 kg.  
 No. of valves per cylinder Two Method of valve operation Push rod and rocker  
 No. of camshafts One Location of camshafts in block  
 Type of camshaft drive Chain  
 Diameter of valves: Inlet 39.497/39.751 m.m. Exhaust 34.29/34.54 m.m.  
 Diameter of port at valve seat: Inlet 35.407/35.560 m.m. Exhaust 30.175/30.327 m.m.  
 Tappet clearance for checking timing: Inlet 0.3556 m.m. Exhaust 0.3556 m.m.  
 Valves open: Inlet 17° BTDC Exhaust 49° BBDC  
 Valves close: Inlet 51° ABDC Exhaust 19° ATDC  
 Maximum valve lift: Inlet 8.8569 m.m. Exhaust 8.8569 m.m.  
 Degrees of crankshaft rotation from zero to—  
 Maximum lift: Inlet 107° ATDC Exhaust 105° BTDC  
 $\frac{3}{4}$  Maximum lift: Inlet 57° ATDC Exhaust 155° BTDC  
 Valve springs: Inlet ..... Exhaust .....  
 Type Straight Coil Straight Coil  
 No. per valve One One  
 Carburettor: Type Down draught No. fitted One  
 (up or down draft, horizontal)  
 Make Zenith Model L12 W.1.A.2.  
 Flange hole diameter 42.0/42.02 m.m. Choke diameter 36 m.m.  
 Main jet identification No. 165

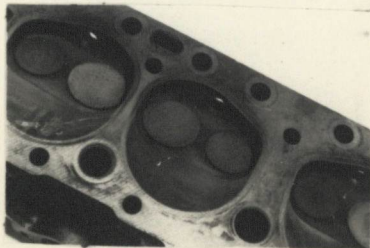
Air filter: Type Dry (Paper element) No. fitted One

Inlet manifold:

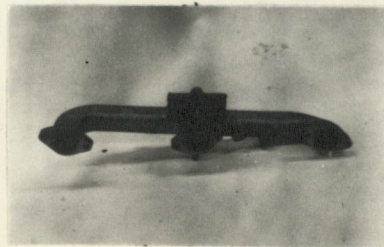
Diameter of flange hole at carburettor 43.688 m.m.

Diameter of flange hole at port 34.798/35.36 m.m.

Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here.



Exhaust manifold:

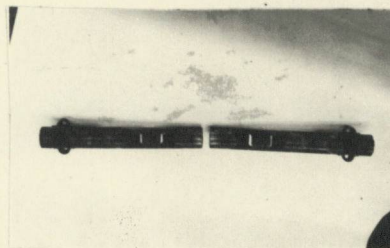
Diameter of flange hole at port 29.972 x 28.118 m.m.

Diameter of flange hole at connection to silencer inlet pipe 47.852 x 32.004 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 A.C. No. fitted One  
Method of operation Mechanical diaphragm  
Type of ignition system Coil coil or magneto  
Make of ignition Lucas Model Distributor 25D6 Lucas  
Method of advance and retard Centrifugal and vacuum  
Make of ignition coil Lucas Model H.A.12  
No. of ignition coils One Voltage 12  
Make of dynamo Lucas Model C.401  
Voltage of dynamo 12v Maximum output 25 amps.  
Make of starter motor Lucas Model M35G  
Battery: No. fitted One Voltage 12v Capacity 57 amp. hour  
Oil Cooler (if fitted) type None Capacity - pints

Make FORD Model ZODIAC Mk III F.I.A. Recognition No. 4/63/DAG  
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**TRANSMISSION**

Make of clutch Ford Type Dry plate  
 Diameter of clutch plate 21.59 cm No. of plates One  
 Method of operating clutch Hydraulic Release  
 Make of gearbox Ford Type Mechanical synchromesh  
 No. of gearbox ratios Four forward and 1 reverse  
 Method of operating gearshift Manual  
 Location of gearshift Steering column or floor shift  
 Is overdrive fitted? Optional  
 Method of controlling overdrive, if fitted Governor operated solenoid, manual over-ride and kick-down

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.163	<u>31 x 30</u> 21 14	3.163	<u>31 x 30</u> 21 14				
2.	2.214	<u>31 x 27</u> 21 18	2.214	<u>31 x 27</u> 21 18				
3.	1.412	<u>31 x 23</u> 21 22	1.54	<u>31 x 22</u> 21 23				
4.	1.000	Direct	1.000	Direct				
5.								

Type of final drive  $\frac{3}{4}$  Floating hypoid  
 Type of differential Bevel pinions  
 Final drive ratio 3.55 Alternatives 3.900 or 4.11  
 No. of teeth 11/39 10/39 or 9/37  
 Overdrive ratio, if fitted 0.777 : 1

**WHEELS**

Type Pressed steel disc Weight 15.53 kg.  
 Method of attachment 5 stud  
 Rim diameter 396.875/330.2 m.m. Rim width 114.30 m.m.  
 Tyre size: Front 6.40 x 15/6.40 x 13 Rear 6.40 x 15 6.40 x 13

**BRAKES**

Method of operation Hydraulic  
 Is servo assistance fitted? Yes  
 Type of servo, if fitted Hydraulic/Vacuum - Girling  
 No. of hydraulic master cylinders One Bore 22.225 m.m.

	Front	Rear
No. of wheel cylinders	Two per wheel	One per wheel
Bore of wheel cylinders	53.975 m.m.	19.05 m.m.
Inside diameter of brake drums	- m.m.	228.6 m.m.
No. of shoes per brake	-	Two
Outside diameter of brake discs	247.65 m.m.	- m.m.
No. of pads per brake	Two	-
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	60.45 m.m.	218.95 m.m.
	- m.m.	- m.m.
Width	53.975 m.m.	57.15 m.m.
Total area per brake	6645 m.m. <sup>2</sup>	25,032 m.m. <sup>2</sup>

### SUSPENSION

	Front	Rear
Type	Independent	Longitudinal
Type of spring	Coil	Semi-elliptic leaf
Is stabiliser fitted?	Yes	No
Type of shock absorber	Telescopic	Lever arm
No. of shock absorbers	Two	Two

### STEERING

Type of steering gear..... Recirculating ball

Turning circle of car..... 10.967 m., approx.

No. of turns of steering wheel from lock to lock..... 2 $\frac{1}{4}$

### CAPACITIES AND DIMENSIONS

Fuel tank..... 51.55 litres Sump..... 3.978 litres

Radiator..... 6.677 litres

Overall length of car..... 460.4 cm. Overall width of car..... 175.16 cm.

Overall height of car, unladen (with hood up, if appropriate)..... 146.05 cm.

Distance from floor to top of windscreen:

Highest point..... 101.6 cm. Lowest point..... 97.79 cm.

Width of windscreen:

Maximum width..... 130.81 cm. Minimum width..... 112.3 cm.

\*Interior width of car..... 135.25 cm.

No. of seats..... 6

Track: Front..... 134.6 cm. Rear..... 135.89 cm.

Wheelbase..... 277.78 cm. Ground clearance..... 172.4 or 198.4 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..... 1233 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.<sup>2</sup>

**Size of exhaust port:**

Length measured around cylinder wall..... m.m.

Height.....m.m. Area.....m.m.<sup>2</sup>

**Size of transfer port:**

Length measured around cylinder wall..... m.m.

Height.....m.m. Area.....m.m.<sup>2</sup>

**Size of piston port:**

Length measured around piston..... m.m.

Height.....m.m. Area.....m.m.<sup>2</sup>

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:—

1. Engine Sump Shield
2. Fuel Tank Shield
3. Heavy duty suspension - front and rear
4. Additional distance piece on front springs for certain territories
5. 6.70 x 13 and 6.70 x 15 tyres
6. Cold start equipment - 12 v. 80 A.H. Battery and Lucas M 35G Pre-engaged starter
7. Heavy duty charging equipment: Lucas C42 generator - Max Output 30 amps.
8. Borg Warner Overdrive 0.77
9. Borg Warner Automatic Transmission  
Low 2.39  
2nd gear 1.45  
1st gear Direct  
Reverse 2.09  
Convertor Max. ratio 2 : 1
- 10 Four Blade Fan
- 11 Long range fuel tank 54.5 litres