

Manufacturers Reference No. for Application

7/63/DAG



F.I.A. Recognition No.

1192

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 LIMITED**

Model..... **Zodiac Mk III** Year of Manufacture..... **1962**

Serial No. of Chassis..... **Z64A or Z 64B 116125**
Engine..... **213E 0005**

Type of Coachwork..... **Saloon**

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

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



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.

$\frac{3}{4}$ view of car from rear left.



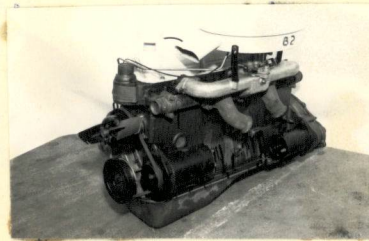
Interior view of car through driver's door.



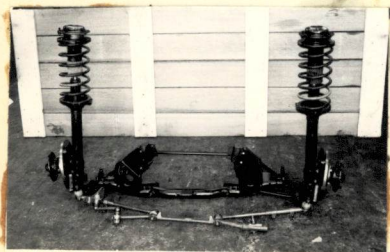
Engine unit with accessories from right.



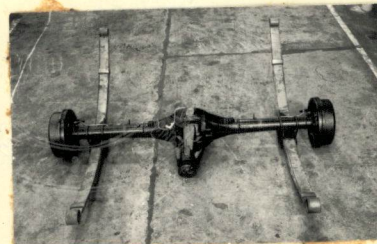
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



ENGINE

in line
 No. of cylinders 6 ~~in V~~
~~opposed~~
 Cycle 4 stroke Firing order 1, 5, 3, 6, 2, 4
 Capacity 2553 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 -
 Distance from crankshaft centre line to top face of block at centre line of cylinders 221.48 m.m.
 Material of cylinder head Cast iron Volume of one combustion chamber 48.5 c.c.
 Compression ratio 8.3 : 1
 Material of piston Aluminium alloy No. of piston rings Three
 Distance from gudgeon pin centre line to highest point of piston crown 45.898/46.05 m.m.
 Bearings { Crankshaft main bearings: Type Lead bronze or Copper lead (steel backed) Dia. 60.35 m.m.
 Connecting rod big end: Type Lead bronze Dia. 53.988 m.m.
 Weights { Flywheel 10.251 kg.
 Crankshaft 38.329 kg.
 Connecting rod .60 kg.
 Piston with rings 0.4867 kg.
 Gudgeon pin 0.1265 kg.
 No. of valves per cylinder Two Method of valve operation Push rod & rocker
 No. of camshafts One Location of camshafts In block
 Type of camshaft drive Duplex chain
 Diameter of valves: Inlet 39.751 m.m. Exhaust 34.54 m.m.
 Diameter of port at valve seat: Inlet 35.560 m.m. Exhaust 30.327 m.m.
 Tappet clearance for checking timing: Inlet 0.355 m.m. Exhaust 0.355 m.m.
 Valves open: Inlet 17° B.T.D.C. Exhaust 49° B.B.D.C.
 Valves close: Inlet 51° A.B.D.C. Exhaust 19° A.T.D.C.
 Maximum valve lift: Inlet 8.857 m.m. Exhaust 8,857 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 136° Exhaust 136°
 $\frac{3}{4}$ Maximum lift: Inlet 68° Exhaust 68°
 Valve springs: Inlet Exhaust
 Type Straight coil Straight coil
 No. per valve One One
 Carburettor: Type Down draught (up or down draft, horizontal) No. fitted One
 Make Zenith Model 42 W. I.A.2
 Flange hole diameter 42.02 m.m. Choke diameter 36 m.m.
 Main jet identification No. 170

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

Inlet manifold:

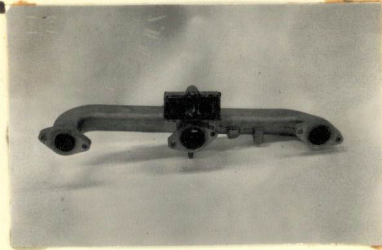
Diameter of flange hole at carburettor 43.688 m.m.

Diameter of flange hole at port 35.36 m.m.

Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here.



Exhaust manifold:

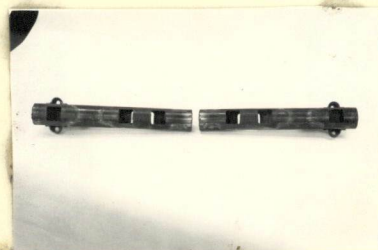
Diameter of flange hole at port 29.972 x 28.448 m.m.

Diameter of flange hole at connection to silencer inlet pipe 41.4 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

Method of advance and retard Centrifugal and vacuum

Make of ignition coil Lucas Model HA12

No. of ignition coils One Voltage 12

Make of dynamo Lucas Model C.40L

Voltage of dynamo 12 Maximum output 25 amps.

Make of starter motor Lucas Model M35G

Battery: No. fitted One Voltage 12 Capacity 57 amp. hour

Oil Cooler (if fitted) type - Capacity - pints

Make FORD Model ZODIAC MK III F.I.A. Recognition No. _____
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TRANSMISSION

Make of clutch Ford Type Dry Plate
 Diameter of clutch plate 215.9 mm No. of plates One
 Method of operating clutch Hydraulic release
 Make of gearbox Ford Type Mechanical synchromesh
 No. of gearbox ratios Four forward and one 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 | $\frac{31}{21} \times \frac{30}{14}$ | 3.163 | $\frac{31}{21} \times \frac{30}{14}$ | | | | |
| 2. | 2.214 | $\frac{31}{21} \times \frac{27}{18}$ | 2.214 | $\frac{31}{21} \times \frac{27}{18}$ | | | | |
| 3. | 1.412 | $\frac{31}{21} \times \frac{23}{22}$ | 1.54 | $\frac{31}{21} \times \frac{22}{23}$ | | | | |
| 4. | | | | | | | | |
| 5. | 1.00 | Direct | 1.00 | Direct | | | | |

Type of final drive $\frac{3}{4}$ Floating hypoid
 Type of differential Bevel & pinion and diff. lock
 Final drive ratio 3.55 Alternatives 3.9, 4.11, 4.4.
 No. of teeth 39/11 39/10, 37/9, 40/9
 Overdrive ratio, if fitted 0.777 : 1

WHEELS

Type Pressed steel discs Weight (with tyre) 15.42 kg.
 Method of attachment 5 R.H. studs
 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 Girling Super Vac. Type 50
 No. of hydraulic master cylinders One Bore 20.625 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 | - | 228.6 m.m. |
| No. of shoes per brake | - | Two |
| Outside diameter of brake discs | 247.65 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 nominal | 60.45 m.m. | 218.44 m.m. |
| | - | - |
| Width | 53.975 m.m. | 57.15 m.m. |
| Total area per brake | 6645 m.m. ² | 25,030 m.m. ² |

SUSPENSION

| | Front | Rear |
|------------------------|----------------------|----------------------|
| Type | Independent | Longitudinal |
| Type of spring | Coil | Semi elliptic leaf |
| Is stabiliser fitted? | Yes | No |
| Type of shock absorber | Armstrong Telescopic | Lever Arm adjustable |
| 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 | 3 $\frac{1}{4}$ |

CAPACITIES AND DIMENSIONS

| | | | |
|---------------------------------------------------------------|--------------|----------------------|---------------------|
| Fuel tank | 54.55 litres | Sump | 3.978 litres |
| Radiator | 6.677 litres | | |
| Overall length of car | 464.03 cm. | Overall width of car | 175.46 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 | 5/6 | | |
| Track: Front | 134.62 cm. | Rear | 135.89 cm. |
| Wheelbase | 271.78 cm. | Ground clearance | 172.7 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.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:—

1. Front underbody 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. Overdrive
7. Cold start equipment. Heavy duty 12v. 80 amp. battery and Lucas M35H pre engaged starter
8. Lucas C42 generator. Mx. output 30 amps.
9. Four bladed fan
10. Additional long range fuel tank 54.5 litres capacity
11. Borg Warner Automatic Transmission

| | |
|-----------|------------------|
| Low | 2.39 |
| 2nd gear | 1.45 |
| 1st gear | Direct |
| Reverse | 2.09 |
| Converter | Max. ratio 2 : 1 |