



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 No. Z64A or B 116125
Engine No. 0005
Type of Coachwork SALOON
Recognition is valid from 27/11/62 In category Touring

*liste générale
"additionnelle"*

Photograph to be affixed here $\frac{1}{2}$ view of car from front right.



Autosport

Stamp of F.I.A. to be affixed here.

General description of car:

ALL STEEL WELDED BODY/FRAME CONSTRUCTION

4 DOOR SALOON

Photographs to be affixed below.

$\frac{1}{2}$ view of car from rear left.



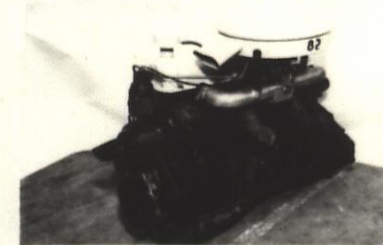
Interior view of car through driver's door.



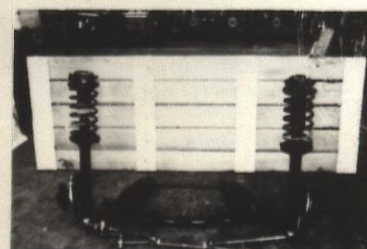
Engine unit with accessories from right.



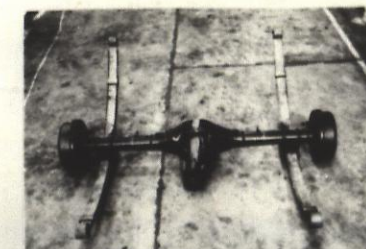
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



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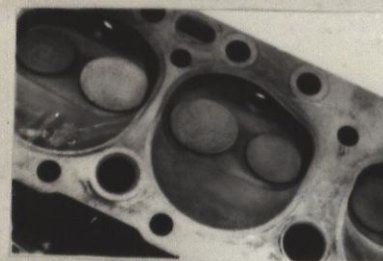
ENGINE

No. of cylinders SIX in line in line
Cycle FOUR 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 mm 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 50/52 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 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. 0.28486 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 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° 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 8.8569 m.m. Exhaust 8.8569 m.m.
Degrees of crankshaft rotation from zero to—
Maximum lift: Inlet 107° A.T.D.C. Exhaust 105° B.T.D.C.
 $\frac{3}{4}$ Maximum lift: Inlet 57° A.T.D.C. Exhaust 155° B.T.D.C.
Valve springs: Inlet STRAIGHT COIL Exhaust STRAIGHT COIL
Type STRAIGHT COIL
No. per valve ONE
Carburettor: Type DOWN DRAFT No. fitted ONE
(up or down draft, horizontal)
Make ZENITH Model 42 W.I.A.2.
Flange hole diameter 42.0/42.02 m.m. Choke diameter 36 m.m.
Main jet identification No. 165

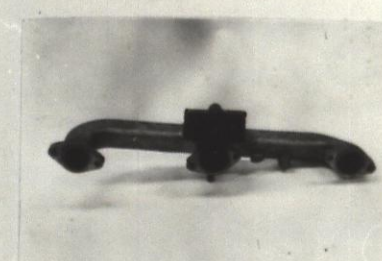
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Air filter: Type DRY (PAPER ELEMENT) No. fitted ONE
Inlet manifold: Diameter of flange hole at carburettor 43.688 m.m.
Diameter of flange hole at port 34.798/35.56 m.m.

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 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) LUCAS 25D6
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 40 L
Voltage of dynamo 12V 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 NONE Capacity pints

Make **FORD** Model **ZODIAC MK.III** A. Recognition No. _____
 Manufacturers Reference No. of Application _____

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 SYNCHRO-MESH**
 No. of gearbox ratios **FOUR FORWARD**
 Method of operating gearshift **MANUAL**
 Location of gearshift **STEERING COLUMN**
 Is overdrive fitted? **NO - (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	$\frac{31}{21} \times \frac{30}{14}$						
2.	2.214	$\frac{31}{21} \times \frac{27}{18}$						
3.	1.412	$\frac{31}{21} \times \frac{23}{22}$						
4.	1.000	DIRECT						
5.								

Type of final drive **THREE QUARTER 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 **330.2** m.m. Rim width **114.3** m.m.
 Tyre size: Front **6.40 - 13** Rear **6.40 - 13**

BRAKES

Method of operation **HYDRAULIC**
 Is servo assistance fitted? **YES**
 Type of servo, if fitted **HYDRAULIC/VACUUM - GIRLING TYPE 689**
 No. of hydraulic master cylinders **ONE** Bore **22.225** m.m.

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 _____

	Front	Rear
No. of wheel cylinders	ONE	ONE
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)		
Length (NOMINAL)	60.45 m.m.	218.95 m.m.
Width	53.975 m.m.	57.15 m.m.
Total area per brake	6645 m.m. ²	25,032 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	TELESCOPIC	LEVER ARM
No. of shock absorbers	TWO	TWO

STEERING

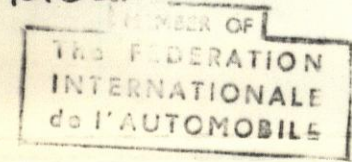
Type of steering gear **RECIRCULATING BALL**
 Turning circle of car **10.967** m., approx.
 No. of turns of steering wheel from lock to lock **4.0**

CAPACITIES AND DIMENSIONS

Fuel tank **54.55** 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 **SIX**
 Track: Front **134.6** cm. Rear **132.08** cm.
 Wheelbase **271.78** cm. Ground clearance **17.27** 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 **798.79** kgs.
1233.



Optional equipment affecting preceding information:—

- ENGINE SUMP SHIELD
- FUEL TANK SHIELD
- HEAVY DUTY SUSPENSION - FRONT AND REAR
- 6.70 - 13 TYRES
- COLD START EQUIPMENT - 12V 80 AH BATTERY AND LUCAS M35G PRE-ENGAGED STARTER
- HEAVY DUTY CHARGING EQUIPMENT: LUCAS C42 GENERATOR - MAX. OUTPUT 30 AMPS.
- BORG-WARNER OVERDRIVE **0.77**
- BORG-WARNER AUTOMATIC TRANSMISSION **Low 2.39**
- 4 BLADE FAN **2nd gear 1.45**
1st Direct
Reverse 2.09
Converter maximum ratio 2:1

- Floor mounted gear change
- 12 gallon fuel tank

