

Manufacturers Reference No. for Application

3/64/DAG



F.I.A. Recognition No.

1311

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..... 1964

Chassis..... Z64A or Z64B 116125

Serial No. of

Engine..... 213E 0005

Type of Coachwork..... Saloon

Recognition is valid from.....

11th April 1964

In category..... Touring

Photograph to be affixed here $\frac{2}{3}$ view of car from front right.



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

Form: R.F.I.A.

3/64/DAG

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.

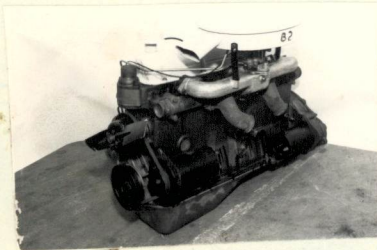
$\frac{3}{4}$ view of car from rear left.



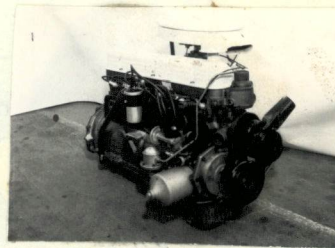
Interior view of car through driver's door.



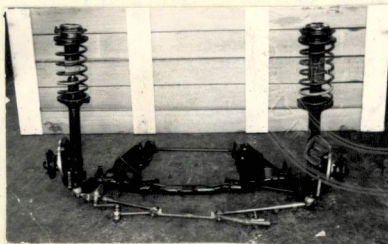
Engine unit with accessories from right.



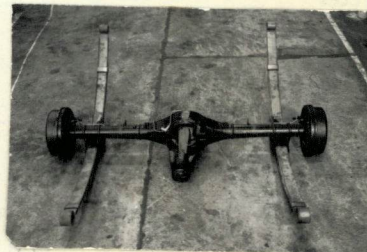
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



ENGINE

in line yes
 No. of cylinders 6 ~~four~~ ---
~~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 2650 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 221.48 m.m.
 Material of cylinder head cast iron Volume of one combustion chamber 48.93 c.c.
 Compression ratio 8.7:1
 Material of piston aluminium alloy No. of piston rings three
 Distance from gudgeon pin centre line to highest point of piston crown 45.898/4605 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.
 Flywheel 10.251 kg. (steel backed)
 Weights { Crankshaft 27.67 kg.
 Connecting rod 0.648 kg.
 Piston with rings 0.485 kg.
 Gudgeon pin 0.1265 kg.
 No. of valves per cylinder two Method of valve operation pushrod and rocker
 No. of camshafts one Location of camshafts in block Part No. 6251 and EOTTA 6251C
 Type of camshaft drive Duplex chain
 Diameter of valves: Inlet 39.72 m.m. Exhaust 34.52 m.m.
 Diameter of port at valve seat: Inlet 37.60 m.m. Exhaust 31.75 m.m.
 Tappet clearance for checking timing: Inlet 0.254 m.m. Exhaust 0.304 m.m.
 Valves open: Inlet 27°/17° B.T.C. Exhaust 65°/49° B.B.C.
 Valves close: Inlet 65°/51° A.B.C. Exhaust 27°/19° A.T.C.
 Maximum valve lift: Inlet 9.52/8.857 m.m. Exhaust 9.52/8.857 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 130°/136° Exhaust 130°/136°
 ¾ Maximum lift: Inlet 65°/68° Exhaust 65°/68°
 Valve springs: Inlet straight coil Exhaust straight coil
 Type straight coil straight coil
 No. per valve one one
 Carburettor: Type downdraft No. fitted one
 (up or down draft, horizontal)
 Make Zenith Model 42W.I.A.2
 Flange hole diameter 42.02 m.m. Choke diameter 36 m.m.
 Main jet identification No. 170

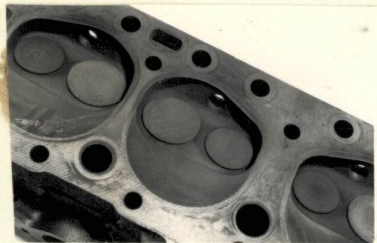
9121P

Air filter: Type Dry (paper element) No. fitted one

Inlet manifold:
Diameter of flange hole at carburettor 44.00 m.m.

Diameter of flange hole at port 39.1 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 31.95 x 28.450 m.m.

Diameter of flange hole at connection to silencer inlet pipe 41.40 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 automatic centrifugal & vacuum

Make of ignition coil Lucas Model HA12

No. of ignition coils One Voltage 12

Make of dynamo Lucas Model C40L

Voltage of dynamo 12 Maximum output 25 amps.

Make of starter motor Lucas Model M356

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

Oil Cooler (if fitted) type None Capacity _____ pints

Make FORD Model Zodiac 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	$\frac{31 \times 30}{21 \times 14}$	3.163	$\frac{31 \times 30}{21 \times 14}$				
2.	2.214	$\frac{31 \times 27}{21 \times 18}$	2.214	$\frac{31 \times 27}{21 \times 18}$				
3.	1.412	$\frac{31 \times 23}{21 \times 22}$	1.54	$\frac{31 \times 22}{21 \times 23}$				
4.	1.000	direct	1.000	direct				
5.								

Type of final drive $\frac{3}{4}$ floating hypoid
 Type of differential bevel and 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
Inside diameter of brake drums	---	m.m.	228.6
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
Total area per brake	6645	m.m. ²	25,030

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.
				dependent on wheel size	

*(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.....

1. Front underbody shield
2. Fuel tank shield
3. Export suspension
4. Cold start equipment Heavy duty battery (12V 80 Amp)
and Lucas M35H pre-engaged starter
5. Four blade fan
6. Additional long range fuel tank 54.5 litres capacity
operated by two way tap
7. Borg Warner Automatic Transmission Low 2.39,
second gear 1.45
first gear direct
reverse 2.09
converter
max ratio 2:1

