

Manufacturers Reference No. for Application

3/62/DAG



F.I.A. Recognition No.

1127
3/62/DAG

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.

FORD MOTOR COMPANY LIMITED

Manufacturer.....

ZEPHYR 4 MK.III

Model..... Year of Manufacture.....

1962

Serial No. of Chassis.....

No: 211E: 047004

Serial No. of Engine.....

No: 211E: 0002

SALOON

Type of Coachwork.....

Recognition is valid from..... In category.....

~~31st March 1962~~

Touring

- 3 MAI 1962

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

Photographs to be affixed below.

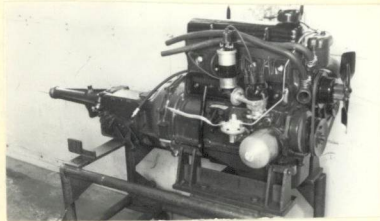
3/4 view of car from rear left.



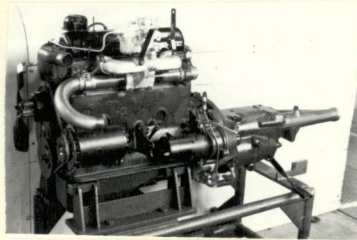
Interior view of car through driver's door.



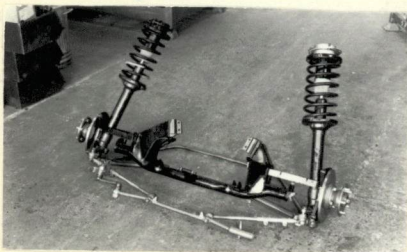
Engine unit with accessories from right.



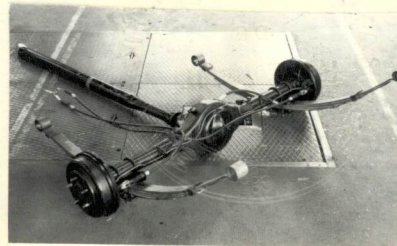
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



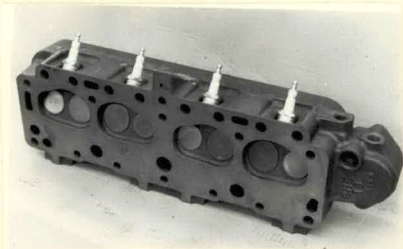
ENGINE

FOUR in line
 No. of cylinders..... in V
FOUR STROKE opposed..... **1.2.4.3**
 Cycle..... **1703** Firing order..... **79.50**
 Capacity..... c.c. Bore..... m.m. Stroke..... m.m.
 Maximum rebore..... **1.524 mm** Resultant capacity..... **1766** 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..... **STEEL BACK - BABBITT** Dia..... **60.35/60.361** m.m.
 Connecting rod big end: Type..... **LEAD BRONZE** Dia..... **53.987/54.0** m.m.
 Weights { Flywheel..... **9.979** kg.
 Crankshaft..... **16.896** 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 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° BTDC**
 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: Inlet..... **107° ATDC** Exhaust..... **105° BTDC**
 Maximum lift: Inlet..... **57° ATDC** Exhaust..... **155° BTDC**
 3/4 Maximum lift: Inlet..... Exhaust.....
 Valve springs: Inlet..... **STRAIGHT COIL** Exhaust..... **STRAIGHT COIL**
 Type..... **ONE**
 No. per valve..... **DOWNDRAFT**
 Carburettor: Type..... **UPRIGHT** (upright, down draft, horizontal) No. fitted..... **36 VV**
 Make..... **36.0/36.02** Model..... **32**
 Flange hole diameter..... m.m. Choke diameter..... m.m.
 Main jet identification No..... **100**

Air filter: Type **DRY (PAPER ELEMENT)** No. fitted **ONE**

Inlet manifold:
Diameter of flange hole at carburettor **38.1** m.m.
Diameter of flange hole at port **30.226/30.988** 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 **29.972/28.448** m.m.
Diameter of flange hole at connection to silencer inlet pipe **40.208/40.462** 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**
Make of ignition **LUCAS** Model **(DISTRIBUTOR) LUCAS 25D.4**
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 **0.40**
Voltage of dynamo **12V** Maximum output **22** amps.
Make of starter motor **ONE** Model **11350**
Battery: No. fitted **ONE** Voltage **12** Capacity **45** amp. hour
Oil Cooler (if fitted) type **TUN** Capacity _____ pints

Make **FORD** Model **ZEPHYR 4** F.I.A. Recognition No.

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TRANSMISSION

Make of clutch **FORD** Type **DRY PLATE**
 Diameter of clutch plate **20.32 cm** No. of plates **ONE**
 Method of operating clutch **HYDRAULIC RELEASE**
 Make of gearbox **FORD** Type **MECHANICAL SYNCHROMESH**
 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.	4.412	$\frac{35 \times 30}{17 \times 14}$						
2.	2.353	$\frac{35 \times 24}{17 \times 21}$						
3.	1.505	$\frac{35 \times 19}{17 \times 26}$						
4.	1.000	DIRECT						
5.								

Type of final drive **THREE QUARTER FLOATING HYPOID**
 Type of differential **BEVEL PINIONS**
 Final drive ratio **3.90** Alternatives **4.11 (3.55 WITH AUTO*TRANS)**
 No. of teeth **10/39** **9/37**
 Overdrive ratio, if fitted **0.777 : 1**

WHEELS

Type **PRESSED STEEL DISC** Weight **14.9** 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**
YES
 Is servo assistance fitted?
 Type of servo, if fitted **HYDRAULIC/VACUUM - GIRLING TYPE 689**
 No. of hydraulic master cylinders **ONE** Bore **22.225** m.m.

	Front	Rear
No. of wheel cylinders	TWO	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)		

	Front	Rear
Length (NOMINAL)	60.45 m.m.	218.95 m.m.
Width	53.975 m.m.	44.45 m.m.
Total area per brake	6645 m.m. ²	19,483 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	3.409 litres
Radiator	9.0 litres	(SYSTEM - LESS HEATER)	
Overall length of car	457.2 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 1138 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. ENGINE SUMP SHIELD
2. FUEL TANK SHIELD
3. 4 BLADE FAN
4. HEAVY DUTY SUSPENSION FRONT AND REAR
5. 6.70 - 13 TYRES
6. COLD START EQUIPMENT - 12V 57 AH BATTERY AND LUCAS M418G STARTER
7. HEAVY DUTY CHARGING EQUIPMENT, LUCAS C42 GENERATOR MAX OUTPUT 30 AMPS.
8. BORG WARNER OVERDRIVE - RATIO 0.777 : 1
9. BORG WARNER AUTOMATIC TRANSMISSION

RATIOS: LOW 2.39 : 1 CONVERTER MAX. RATIO 2.0 : 1

2ND 1.45 : 1

HIGH 1.00 : 1

REVERSE 2.09 : 1

10. Floor mounted gear change

