Manufacturers Reference No. for Application 2/62/SAC

11 28

F.I.A. Recognition No. ~~2/62/SAC~~

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.I.

Federation Internationale de l'Automobile.

Form of Recognition in accordance with Appendix J to the International Sporting Code.

Manufacturer FORD MOTOR COMPANY LIMITED

Model ZEPHYR 6 MK.III Year of Manufacture 1962

Serial No. of Chassis No: 213E: 003647

Engine No: 213E: 1231

Type of Coachwork SALOON

Recognition is valid from ~~30th March 1962~~ 3 MAI 1962 In category TOURING

Photograph to be affixed here ¾ view of car from front right.

MEMBER OF FEDERATION INTERNATIONALE de l'AUTOMOBILE

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

Form: R.F.I.A.

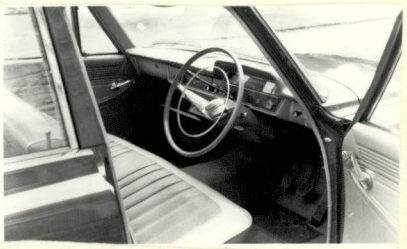
General description of car:

Specify here material/s of chassis/body construction

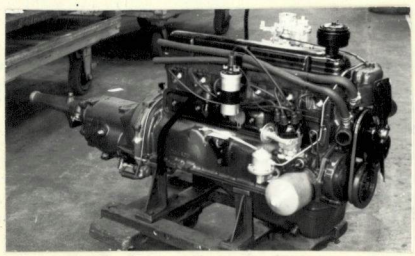
Photographs to be affixed below.

¾ view of car from rear left.

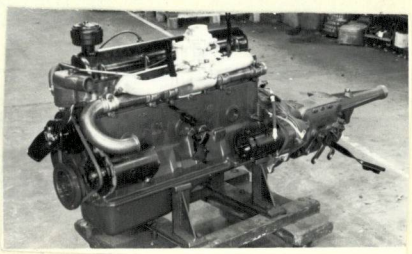
Interior view of car through driver's door.



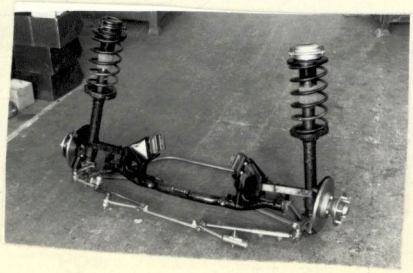
Engine unit with accessories from right.



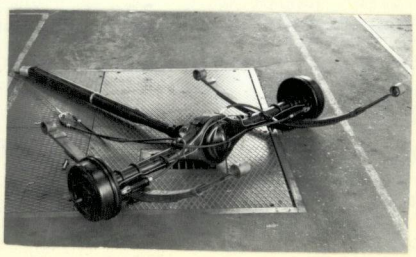
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



ENGINE

No. of cylinders SIX — in line / ~~in V~~ / ~~opposed~~

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 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 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 PUSHROD AND ROCKER

No. of camshafts ONE — Location of camshafts IN BLOCK

Type of camshaft drive CHAIN

		Inlet	Exhaust
Diameter of valves:		39.497/39.751 m.m.	34.29/34.54 m.m.
Diameter of port at valve seat:		35.407/35.560 m.m.	30.175/30.327 m.m.
Tappet clearance for checking timing:		0.3556 m.m.	0.3556 m.m.
Valves open:		17° BTDC	49° BBDC
Valves close:		51° ABDC	19° ATDC
Maximum valve lift:		8.8569 m.m.	8.8569 m.m.
Degrees of crankshaft rotation from zero to—			
Maximum lift:		107° ATDC	105° BTDC
¾ Maximum lift:		57° ATDC	155° BTDC

Valve springs:

	Inlet	Exhaust
Type	STRAIGHT COIL	STRAIGHT COIL
No. per valve	ONE	ONE

Carburettor: Type DOWNDRAFT — No. fitted ONE
(up or down draft, horizontal)

Make ZENITH — Model 36 W.I.A.2

Flange hole diameter 36/36.02 m.m. — Choke diameter 31.0 m.m.

Main jet identification No. 142

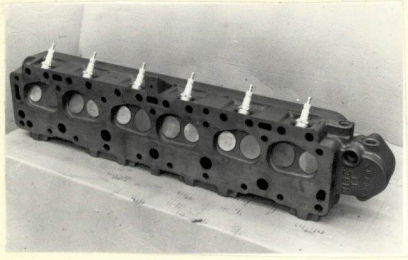
Air filter: Type DRY (PAPER ELEMENT) No. fitted ONE

Inlet manifold:

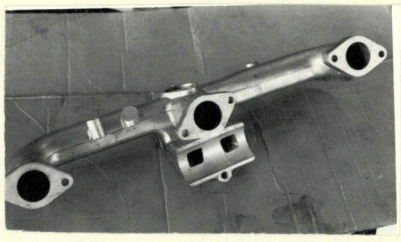
Diameter of flange hole at carburettor 38.1 m.m.

Diameter of flange hole at port 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 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 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 12V

Make of dynamo LUCAS Model C40

Voltage of dynamo 12V Maximum output 22 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 ZEPHYR 6 MK.III F.I.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 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.	3.163	$\frac{31}{21} \times \frac{30}{14}$						
2.	2.214	$\frac{31}{21} \times \frac{27}{18}$						
3.	1.412	$\frac{31}{21} \times \frac{22}{23}$						
4.	1.000	DIRECT						
5.								

Type of final drive THREE QUARTER FLOATING HYPOID

Type of differential BEVEL PINION

Final drive ratio 3.55 : 1 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 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

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.

	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.
	— m.m.	— 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 10.94 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 1202 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 preceeding 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 80 AH BATTERY AND LUCAS M418G STARTER
7. HEAVY DUTY CHARGING EQUIPMENT - LUCAS C42 GENERATOR - MAX.OUTPUT 30 AMPS.
8. BORG WARNER OVER DRIVE RATIO 0.777 : 1
9. BORG WARNER AUTOMATIC TRANSMISSION

RATIOS: LOW: 2.39 : 1 CONVERTER RATIO: 2.0 : 1
2ND: 1.45 : 1
HIGH: 1.00 : 1
REVERSE: 2.09 : 1

10. Floor mounted gear lever
11. 12 gallon fuel tank