

Manufacturers Reference No. for Application

6/63/DAG



F.I.A. Recognition No. 108

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 CONSUL CORTINA (DEVELOPED BY LOTUS) Year of Manufacture 1963
 Serial No. of Chassis Z74C 002368K
 Engine LP 001
 Type of Coachwork Saloon
 Recognition is valid from 9/5/63 In category G.T.

[Handwritten signatures and initials]

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

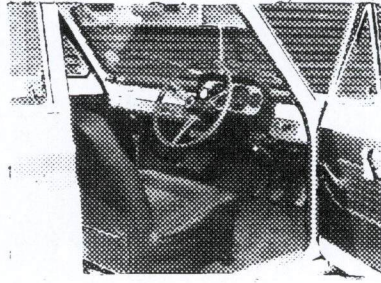
Two door, 4/5 seater saloon
All Steel welded integral construction
Light alloy door panels, hood and boot lids

Photographs to be affixed below.

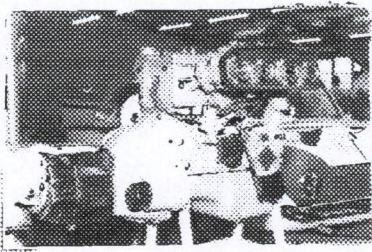
¾ view of car from rear left.



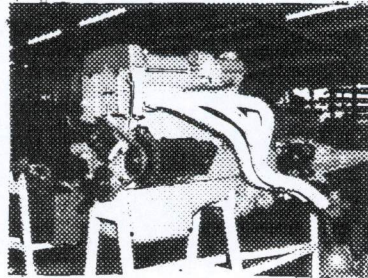
Interior view of car through driver's door.



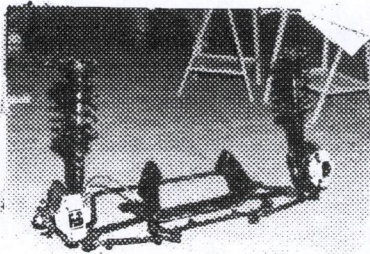
Engine unit with accessories from right.



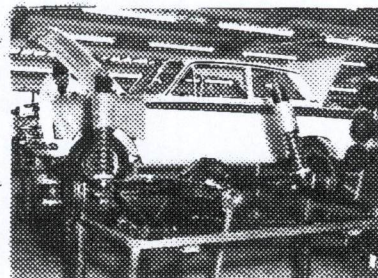
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



ENGINE

in line

No. of cylinders 4 ~~3~~ ~~4~~

Cycle Four stroke Firing order 1, 3, 4, 2

Capacity 1558 c.c. Bore 82.55 m.m. Stroke 72.75 m.m.

Maximum rebore 1 mm Resultant capacity 1595 c.c.

Material of cylinder block Cast iron Material of sleeves, if fitted Cast iron

Distance from crankshaft centre line to top face of block at centre line of cylinders 197.8 m.m.

Material of cylinder head Aluminium alloy Volume of one combustion chamber 40 c.c.

Compression ratio 9.8

Material of piston Aluminium alloy No. of piston rings 3

Distance from gudgeon pin centre line to highest point of piston crown 40.44 m.m.

Bearings { Crankshaft main bearings: Type Copper lead Dia. 54.00 m.m.
 Connecting rod big end: Type Copper lead Dia. 49.21 m.m.

Weights { Flywheel 6.98 kg.
 Crankshaft 11.00 kg.
 Connecting rod .567 kg.
 Piston with rings .365 kg.
 Gudgeon pin .112 kg.

No. of valves per cylinder Two Method of valve operation O.H.C. & Tappets

No. of camshafts Two + Location of camshafts Cylinder head

Type of camshaft drive Single roller chain

Diameter of valves: Inlet 38.86 m.m. Exhaust 33.66 m.m.

Diameter of port at valve seat: Inlet 36.36 m.m. Exhaust 31.16 m.m.

Tappet clearance for checking timing: Inlet .25 m.m. Exhaust .25 m.m.

Valves open: Inlet 26° B.T.D.C. Exhaust 66° B.B.D.C.

Valves close: Inlet 66° A.B.D.C. Exhaust 26° A.T.D.C.

Maximum valve lift: Inlet 8.89 m.m. Exhaust 8.89 m.m.

Degrees of crankshaft rotation from T.D.C. to—

Maximum lift: Inlet 110 Exhaust 250

$\frac{3}{4}$ Maximum lift: Inlet 52 Exhaust 192

Valve springs: Inlet Coil Exhaust Coil

Type Coil

No. per valve Two Two

Carburettor: Type Horizontal No. fitted Two
 (up or down draft, horizontal)

Make Waber Model 40 D.C.O.E.

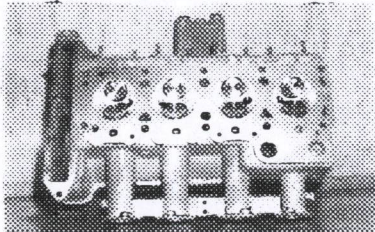
Flange hole diameter 40 m.m. Choke diameter 30 m.m.

Main jet identification No. 115

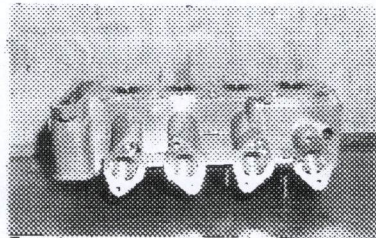
* (with 3rd camshaft driving auxillary equipment)

Air filter: Type Paper element No. fitted One
 Inlet manifold:
 Diameter of flange hole at carburettor 40 m.m.
 Diameter of flange hole at port Integral manifold with head m.m.

Photograph of combustion chamber to be affixed here.

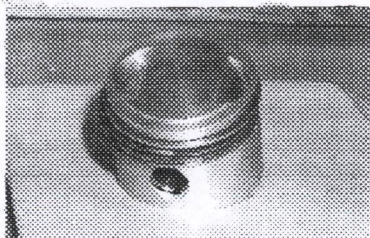


Photograph of inlet manifold to be affixed here.

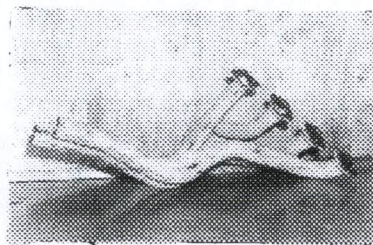


Exhaust manifold:
 Diameter of flange hole at port 34.0 m.m.
 Diameter of flange hole at connection to silencer inlet pipe 2 pipes at 38.3 m.m.

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
 Type of ignition system Coil and distributor coil or magneto
 Make of ignition Lucas Model Distributor 25D4
 Method of advance and retard Automatic centrifugal
 Make of ignition coil Lucas Model HA 12
 No. of ignition coils One Voltage 12
 Make of dynamo Lucas Model C 40 L
 Voltage of dynamo 12 Maximum output 25 amps.
 Make of starter motor Lucas Model M 25 G
 Battery: No. fitted One in luggage Voltage 12 Capacity 38 or 51 amp. hour
 Oil Cooler (if fitted) type Optional extra Capacity _____ pints

CONSUL CORTINA

Make FORD Mode (DEVELOPED BY F.I.A. Recognition No. LOTUS)
 Manufacturers Reference No. of Application 6/63/DAG

TRANSMISSION

Make of clutch Borg and Beck Type Diaphragm type dry plate
 Diameter of clutch plate 184.15 mm No. of plates One
 Method of operating clutch Hydraulically operated
 + Make of gearbox Hobbs Westinghouse gears in Ford Type Conventional synchromesh
box with aluminium clutch housing
 No. of gearbox ratios Four forward and one reverse
 Method of operating gearshift Manual
 Location of gearshift Centrally mounted floor change. Remote control in
aluminium housing
 Is overdrive fitted? No
 Method of controlling overdrive, if fitted.....

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	2.51	$\frac{21 \times 17}{28 \times 32}$	3.543	$\frac{32 \times 32}{17 \times 17}$	3.543	$\frac{32 \times 32}{17 \times 17}$		
2.	1.64	$\frac{21 \times 22}{28 \times 28}$	2.396	$\frac{32 \times 28}{17 \times 22}$	2.04	$\frac{32 \times 27}{17 \times 24}$		
3.	1.23	$\frac{21 \times 26}{28 \times 24}$	1.412	$\frac{32 \times 21}{17 \times 28}$	1.412	$\frac{32 \times 21}{17 \times 28}$		
4.	1.00	Direct	1.00	Direct	1.00	Direct		
5.								

Type of final drive Hypoid crown wheel and pinion in aluminium housing
 Type of differential Bevel gear and limited slip differential
 Final drive ratio 3.9 : 1 Alternatives 3.77, 4.125, 4.44, 4.7
 No. of teeth 39/10 34/9, 33/8, 40/9, 33/7
 Overdrive ratio, if fitted -

WHEELS

Type Light weight pressed steel Weight 10.88 kg.
 Method of attachment Four studs
 Rim diameter 330.2 m.m. Rim width 139.5 m.m.
 Tyre size: Front 600 x 13 Rear 600 x 13

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? Yes
 Type of servo, if fitted Girling Hydraulic 2.04/1 Assistance Ratio
 No. of hydraulic master cylinders One Bore 19.05 m.m.

+ and aluminium rear gearbox housing.

	Front		Rear
No. of wheel cylinders	Four		Two
Bore of wheel cylinders	48.6	m.m.	17.8
Inside diameter of brake drums	-	m.m.	228.6
No. of shoes per brake	-		2 per drum
Outside diameter of brake discs	247.0	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	56.9	m.m.	219
		m.m.	m.m.
Width	47.5	m.m.	44.6
Total area per brake	5404	m.m. ²	9770
			m.m. ²

SUSPENSION

	Front	Rear
Type	Independent	Live axle
Type of spring	Coil	2 radius rods & 'A' bracket
Is stabiliser fitted?	Yes 15" dia.	No
Type of shock absorber	Armstrong hydraulic	Telescopic adjustable
No. of shock absorbers	Two	Two

STEERING

Type of steering gear	Recirculating ball
Turning circle of car	11.3 m., approx.
No. of turns of steering wheel from lock to lock	2 1/4

CAPACITIES AND DIMENSIONS

Fuel tank	36.35	litres	Sump	3.69	litres
Radiator	5.97	litres			
Overall length of car	427	cm.	Overall width of car	158.5	cm.
Overall height of car, unladen (with hood up, if appropriate)	136.9	cm.			
Distance from floor to top of windscreen:					
Highest point	103	cm.	Lowest point	100.3	cm.
Width of windscreen:					
Maximum width	125	cm.	Minimum width	111	cm.
*Interior width of car	133	cm.			
No. of seats	4				
Track: Front	131	cm.	Rear	127.5	cm.
Wheelbase	249.9	cm.	Ground clearance	135	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 751 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. Alternative fuel tank 63.5 litres
 2. Front under body shield
 3. Rear under body shields
 4. Four bladed Fan
 5. Optional road wheels Rim diameter: 330.2mm Rim Width: 101.6 mm
 6. Heavy duty suspension, including non-adjustable shock absorbers
 7. Optional roll bar size $\frac{7}{8}$ "
 8. Touring camshaft -

Valves Open:	Inlet 22° B.T.D.C.	Exhaust: 62° BBDC
Valves Close:	" 62° A.B.D.C.	Exhaust: 22° ATDC
Maximum Valve lift:	Inlet 8.89mm.	Exhaust: 8.89 mm.
- Degrees of crankshaft rotation from T.D.C. to:
- | | | |
|-------------------------------|-----------|-------------|
| Maximum xxxx lift: | Inlet 110 | Exhaust 250 |
| $\frac{3}{4}$ Maximum lift | Inlet 57 | Exhaust 197 |
9. Touring Seats
 10. Cast iron Clutch housing
 11. Cast iron gearbox rear housing
 12. Cast iron differential housing
 13. Side and rear windows toughened glass
 14. Hypoid differential unit.
 15. "Covrad" light alloy oil cooler M 6738.



FEDERATION INTERNATIONALE DE L'AUTOMOBILE

FORD - CONSU/CORTINA LOTUS

MARQUE ET MODELE

9/63 - 9/63

VALIDITE HOMOLOGATION

108

FICHE NR.

C17/1600

GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES
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Autres homologations du modèle 1224-5018-1467-5176			

Vérifiée le 23/10/95 par Jus visée ce jour le _____ par _____