

F.I.A. Recognition No. 5024

Group 1 Series Production Touring



ROYAL AUTOMOBILE CLUB

31, Belgrave Square, London, S.W.1

Form of recognition in accordance with appendix J to the International Sporting Code of the
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Cylinder-capacity 1499-9 cm.³ 91.3 in.³

Manufacturer Ford Motor Company Ltd., Model CORTINA GT (R.H.D. or L.H.D)

Serial No. of chassis/body 277C 847589 (2 door) 277C 849023 (4 door) Manufacturer Ford

Serial No. of engine 122E 0209 (2 door) 122E 0590 (4 door) Manufacturer Ford

Recognition is valid from 1st January, 1966 List 14

The manufacturing of the model described in this recognition form started on Sept. 5th 1963.

and the minimum production of 5000 identical cars, in accordance with the specifications of

this form was reached on Nov. 5th 1963.

Photograph A, 3/4 view of car from front



F.I.A. Stamp

Hubert Johnson

R.A.C. Stamp



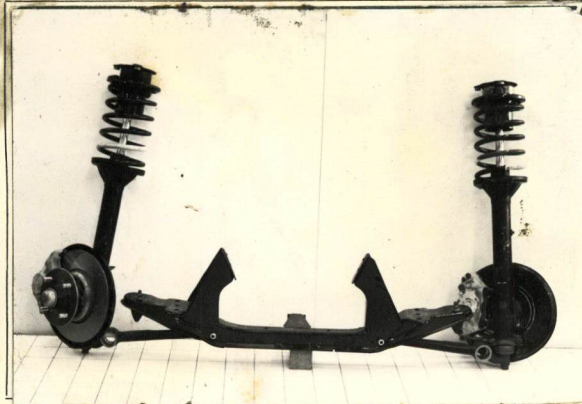
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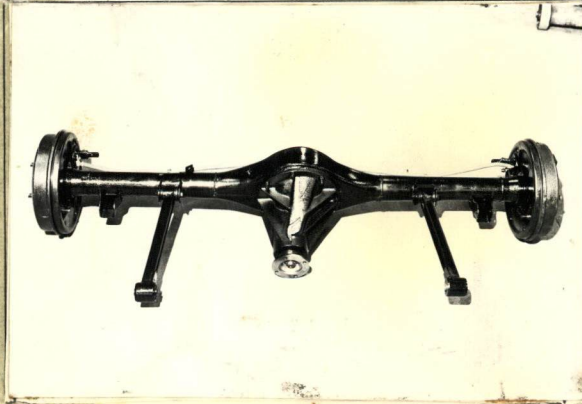
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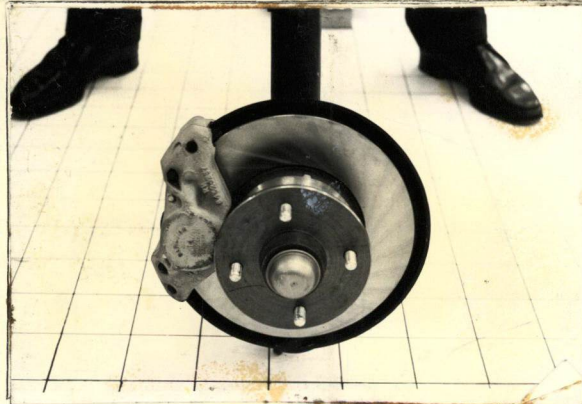
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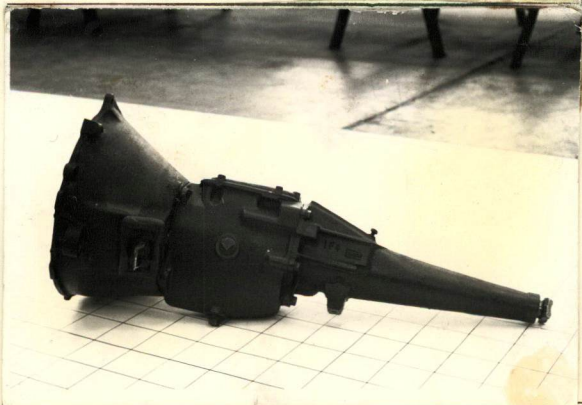
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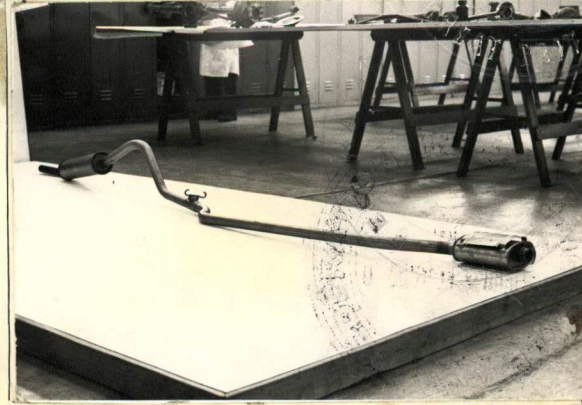
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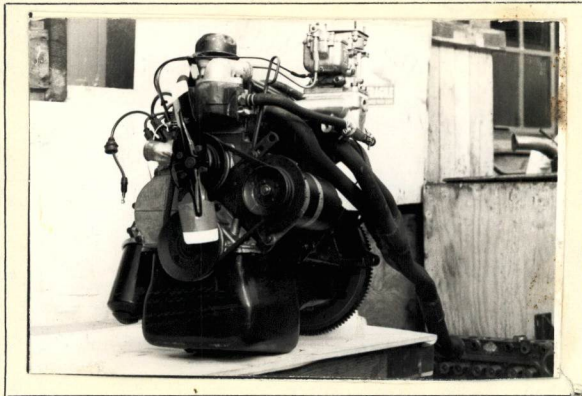
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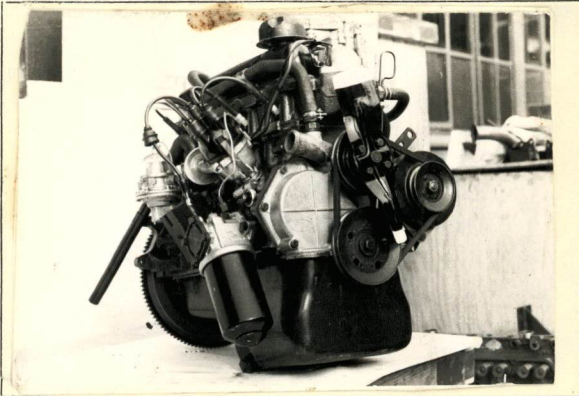
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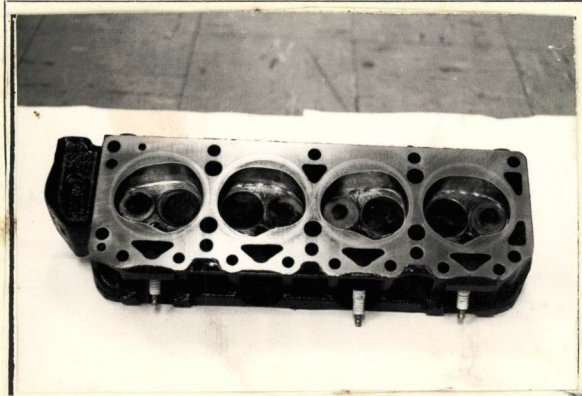
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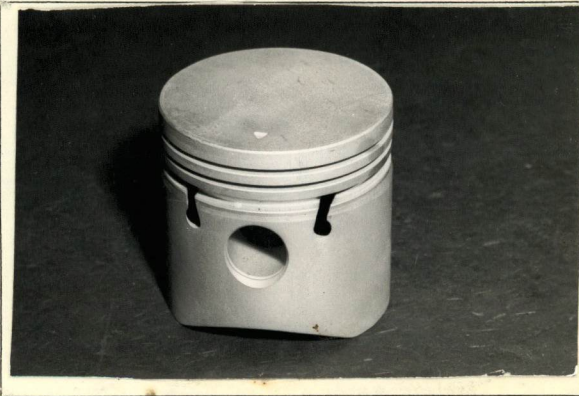
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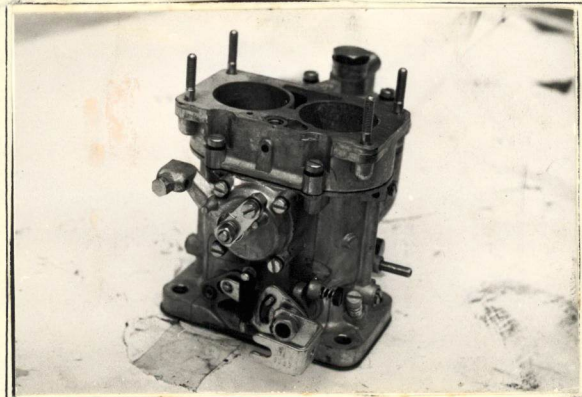
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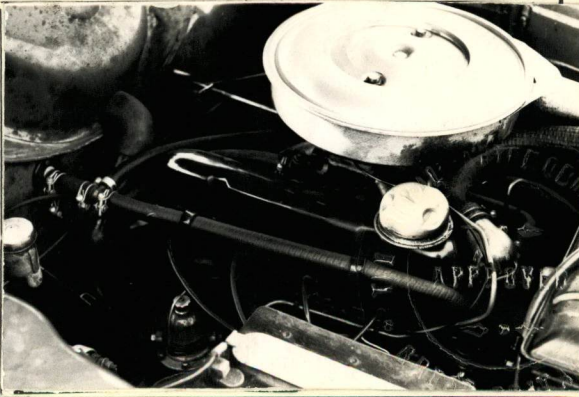
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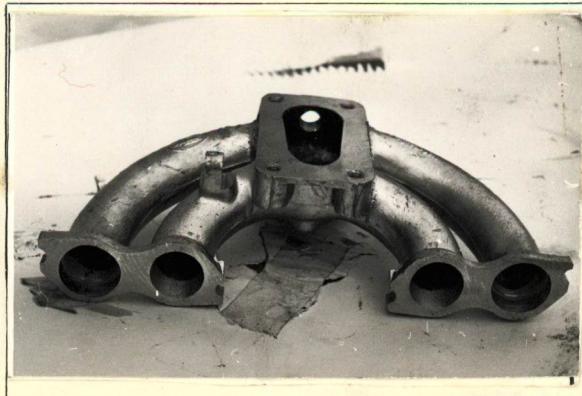
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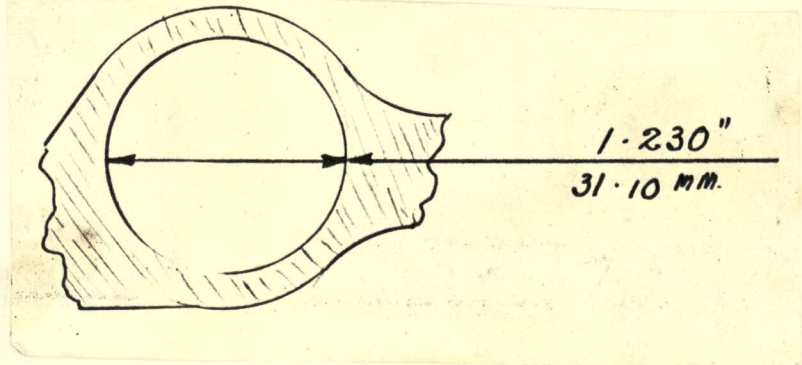
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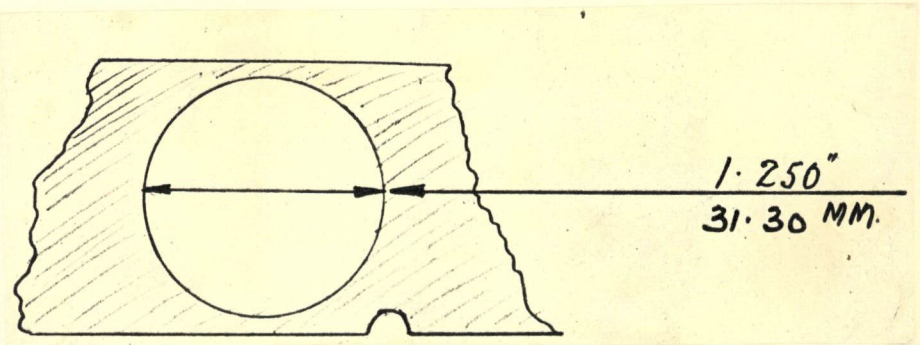
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



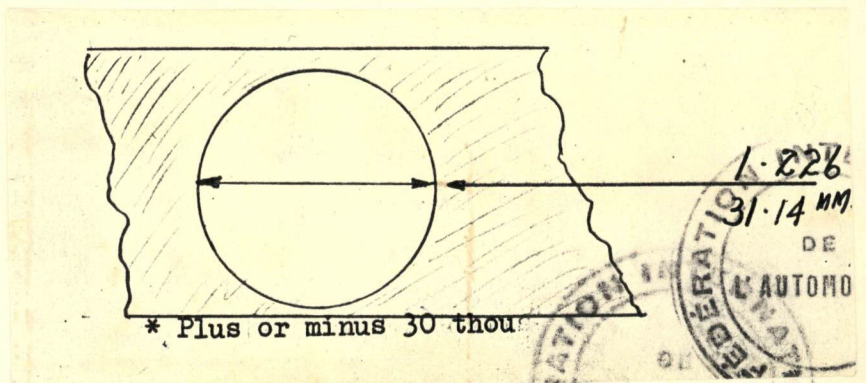
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



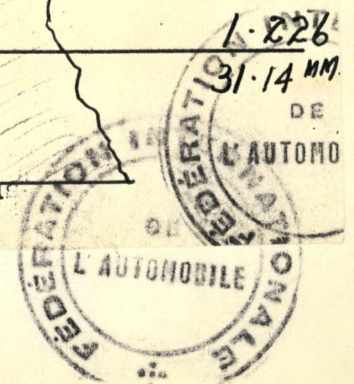
Drawing of exhaust manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



Drawing of exit to exhaust port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



* Plus or minus 30 thou



CHASSIS AND COACHWORK (Photographs A, B and C)

- 20. Chassis/body construction: separate/unitary construction
- 21. Unitary construction, material(s) Steel
- 22. Separate construction, Material(s) of chassis N/A
- 23. Material(s) of coachwork Steel
- 24. Number of doors 2 or 4 Material(s) Steel
- 25. Material(s) of bonnet Steel
- 26. Material(s) of boot lid Steel
- 27. Material(s) of rear-window Toughened glass
- 28. Material(s) of windscreen Toughened or laminated glass
- 29. Material(s) of front-door windows Toughened glass
- 30. Material(s) of rear-door windows Toughened glass
- 31. Sliding system of door windows Rotating interior door handle
- 32. Material(s) of rear-quarter light Toughened glass

ACCESSORIES AND UPHOLSTERY

- 38. Interior heating : ~~yes~~/~~no~~ Optional
- 39. Air conditioning : ~~yes~~ — no
- 40. Ventilation : ~~yes~~ — ~~no~~
- 41. Front seats, type of seat and upholstery PVC or leather
- 42. Weight of front seat(s), complete with supports and rails, out of the car :

9.1	kg.	20	lbs.
-----	-----	----	------
- 43. Rear seats, type of seat and upholstery PVC or leat
- 44. Front bumper, material(s) Steel Weight 2.54 kg. 5.60 lbs.
- 45. Rear bumper, material(s) Weight 2.72 kg. 6.00 lbs.

WHEELS

- 50. Type Pressed Steel disc
- 51. Weight (per wheel, without tyre) 4J 5.94 kg. 4J 13 lbs. 2 oxs.
- 52. Method of attachment Four studs and nuts
- 53. Rim diameter 330 mm. 13.0 ins. 54. Rim width 4J 102 mm. 4.0 ins.

STEERING

- 60. Type
- 61. Servo-assistance : ~~yes~~ — no
- 62. Number of turns of steering wheel from lock to lock 2.5
- 63. In case of servo-assistance N/A



SUSPENSION

- 70. Front suspension (photograph D), type Independent McPherson with torque reaction stabilizer bar.
- 71. Type of spring Coil
- 72. Stabiliser (if fitted) Intergrated with lower arms to McPherson strut
- 73. Number of shock absorbers 2
- 74. Type Intergral with McPherson strut, telescopic double acting.
- 78. Rear suspension (photograph E), type Hotchkiss drive
- 79. Type of spring Multi leaf simi-elliptic
- 80. Stabiliser (if fitted) None
- 81. Number of shock absorbers 2
- 82. Type Telescopic double acting

BRAKES (photographs F and G)

- 90. Method of operation Hydraulic
- 91. Servo-assistance (if fitted), type Optional when fitted, Girling
- 92. Number of hydraulic master cylinders One

		FRONT	REAR
93. Number of cylinders per wheel		2	1
94. Bore of wheel cylinder(s)	48	mm. 1.892 inches	22.2 mm. .875 inches

Drum Brakes

95. Inside diameter	-	mm. - inches	228.6 mm. 9.0 inches
96. Length of brake linings	-	mm. - inches	219.0 mm. 8.62 inches
97. Width of brake linings	-	mm. - inches	44.45mm. 1.75 inches
98. Number of shoes per brake	-	mm. - inches	2
99. Total area per brake	-	mm. ² - sq. in.	19.464mm. ² 30.17 sq. in.

Disc Brakes

100. Outside diameter	244.3	mm. 9.625 inches	- mm. - inches
101. Thickness of disc	12.7	mm. .5 inches	- mm. - inches
102. Length of brake linings	75.5	mm. 3.0 inches	- mm. - inches
103. Width of brake linings	52.5	mm. 2.0 inches	mm. - inches
104. Number of pads per brake	2		
105. Total area per brake	* 6670	mm. ² * 10.34 sq. in.	mm. ² - sq. in.

* Nominal



ENGINE (photographs J and K)

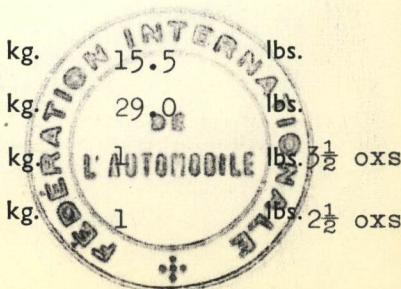
- | | | | |
|---|---|--|----------------------------------|
| 130. Cycle | Four stroke | 131. Number of cylinders | 4 |
| 132. Cylinder Arrangement | In line | | |
| 133. Bore | 80.97 mm. 3.187 in. | 134. Stroke | 72.72/72.925 mm. 2.863/2.871 in. |
| 135. Capacity per cylinder | 374.852 | | cm. ³ 22.875 cu. in. |
| 136. Total cylinder capacity | 1499.9 | | cm. ³ 91.50 cu. in. |
| 137. Material(s) of cylinder block | Cast Iron | 138. Material(s) of sleeves (if fitted) | None |
| 139. Cylinder head, material(s) | Cast iron | Number fitted | 1 |
| 140. Number of inlet ports | 4 | 141. Number of exhaust ports | 4 |
| 142. Compression ratio | 10.4:1 | | |
| 143. Volume of one combustion chamber | 33.0 | | cm. ³ 2.08 cu. in. |
| 144. Piston, material | Aluminium alloy | 145. Number of rings | 3 |
| 146. Distance from gudgeon pin centre line to highest point of piston crown | 38.862 mm. | | 1.53 in. |
| 147. Crankshaft: moulded/ stamped | | 148. Type of crankshaft: integral/ Cast with balance weights. | |
| 149. Number of crankshaft main bearings | 5 | | |
| 150. Material of bearing cap | Cast iron | | |
| 151. System of lubrication: dry / sump /oil in sump | | | |
| 152. Capacity, lubricant | 3.546 ltrs. 6.24 pts. 3.746 quarts U.S. | | |
| 153. Oil cooler: yes / no /Optional without heater | | 154. Method of engine cooling | Water and fan |
| 155. Capacity of cooling system | 5.1 ltrs. 9.0 pts. quarts U.S. 5.4 | | |
| 156. Cooling fan (if fitted) dia. | 4 | | cm. in. |
| | with heater 5.8 ltrs. 10.5 pts. 6.3 | | |
| 157. Number of blades of cooling fan | 2 or 4 27.94 | | 11.0 |

Bearings

- | | | | | | | |
|-----------------------------------|--|------|--------|------|--------|-----|
| 158. Crankshaft main, type | Stell back, copper lead or lead bronze | dia. | 53.993 | m.m. | 2.1257 | in. |
| 159. Connecting rod big end, type | Aluminium tin, copper lead or bronze | dia. | 49.205 | m.m. | 1.9372 | in. |

Weights

- | | | | | |
|---|--------------------|---------------------|---------------------|----------------|
| 160. Flywheel (clean) | 7.0 | kg. | 15.5 | lbs. |
| 161. Flywheel with clutch (all turning parts) | 13.0 | kg. | 29.0 | lbs. |
| 162. Crankshaft | 11.0 kg. 24.5 lbs. | 163. Connecting rod | .551 kg. 1.215 lbs. | 1 1/2 oxs |
| 164. Piston with rings and pin | .517 | kg. | 1 | lbs. 2 1/2 oxs |

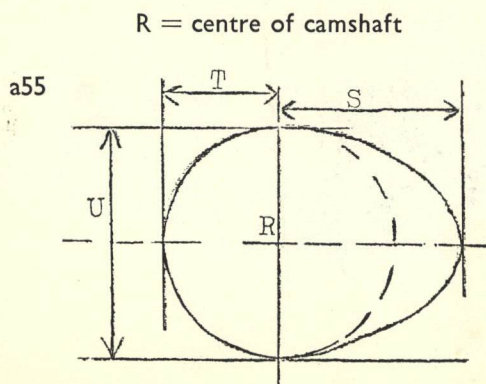


ENGINE ACCESSORIES

- 230. Fuel pump : mechanical and/or electrical
- 231. No. fitted 1
- 232. Type of ignition system Coil
- 233. No. of distributors 1
- 234. No. of ignition coils 1
- 235. No. of spark plugs per cylinder 1
- 236. Generator, type : dynamo/alternator—number fitted 1
- 237. Method of drive Belt
- 238. Voltage of generator 12 volts
- 239. Battery, number 1
- 240. Location Right hand side of engine compartment, facing forward.
- 241. Voltage of battery 12 volts

ENGINE AND CAR PERFORMANCES (as declared by manufacturer in catalogue)

- 250. Max. engine output 78 (type of horsepower: b.h.p.) at 5,200 r.p.m.
- 251. Max. r.p.m. 5,500 output at that figure 77.5 b.h.p.
- 252. Max. torque 91 lbs/ft at 3.600 r.p.m.
- 253. Max. speed of the car km./hour miles/hour
Not declared by manufacturer in catalogue.



Inlet cam

S = 18.55	mm.	.7323	inches
T = 13.00	mm.	.5125	inches
U = 26.00	mm.	1.025	inches

Exhaust cam

S = 18.56	mm.	.7323	inches
T = 12.85	mm.	.5085	inches
U = 25.70	mm.	1.017	inches



IMPORTANT—The conformity of the car with the following items of the present recognition form is to be disregarded during the scrutineering, when the vehicle has been entered in group 2 (Touring cars) or 3 (Grand Touring cars) : 41, 72, 80, 91, 142, 143, 144, 145, 146, 153, 156, 157, 160, 161, 162, 163, 164, 182, 186, 187, 188, 189, 201, 202, 203, 212, 213, 215, 216 222, 225, 230, 250, 251, 252, 253, 255 photographs I, M and N and page 4.

During the scrutineering of cars entered in group 4 (Sportscars) only the following items of the present recognition form are to be taken into consideration : 1, 2, 3, 9, 20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 147, 148, 149, 150, 158, 159, 170, 171, 172, 173, 185, 200, 270, 271, 274, 275, 290, 291, 292 and photographs A, B, D, E, F, G, H, J, K and O.

The vehicle described in this form has been subject to the following amendments :

on.....19..... rec. no.....List..... on.....19..... rec. no.....List.....
on.....19..... rec. no.....List..... on.....19..... rec. no.....List.....
on.....19..... rec. no.....List..... on.....19..... rec. no.....List.....
on.....19..... rec. no.....List..... on.....19..... rec. no.....List.....
on.....19..... rec. no.....List..... on.....19..... rec. no.....List.....

Optional equipment affecting preceding information. This to be stated together with reference number.

See pages 13,14,15,16, I7.



CORTINA GT - ALTERNATIVES

The following alternatives are available for the Cortina GT and have been fitted to examples of the car at an excess of 5000 per annum.

Ref. Nos.				Part Nos.
94	(1)	<u>WHEEL CYLINDERS:</u>	Front 54mm Rear 19.05mm	2.125 ins. .75 ins. 118E-2011C 211E-2261
160/161	(2)	<u>CLUTCH & FLYWHEEL ASSEMBLY:</u>		
		Flywheel with clutch (All turning parts)		Weight 13.0kg 29.0 lbs.
		Flywheel weights		8.5kg. 18.5 lbs.
		Diameter of lining	inside 127.0 mm 5.0 ins. outside 184.2 mm 7.25 ins.	109E-6398-B 105E-7550-C 116E-7563-B
162	(3)	<u>CRANKSHAFT</u>		
		Weights.	10.44kg	23.01 lbs 116E-6303B GT
159	(4)	<u>CONNECTING ROD</u>		
		Weight	5.69kg	1 lb 4 oxs. 125E-26E714
	(5)	<u>CAMSHAFT</u>		
		Inlet Valve open at 27°	B.T.D.C.	
		close 65°	A.B.D.C.	116E-6250-GT
		Measurements:	S 19.5 mm .768 ins. T 13.79mm .544 ins. U 27.58mm 1.088 ins.	
		Max Lift	.244 ins.	
		Exhaust Valve open at 65°	B.B.D.C.	
		Close 27°	A.T.D.C.	
		S 19.19 mm	.762 ins.	
		T 13.84 mm	.550 ins.	
		U 27.68 mm	1.100 ins.	
		Max Lift	.212 ins.	
54	(6)	<u>WHEELS</u>		
		Rim width.	114.5 mm 4.5 ins. 139.5 mm 5.5 ins.	4½J) 13 inches 5½J) 330 mm
51		Weights per wheel	6.5 kgs 14 lbs. 6.0 kgs 13.8 lbs.	
When wheels 4½J and 5½J are used track width is increased by 1 in or 25.4 mm				
142/143	(7)	<u>CYLINDER HEAD</u>		
		Compression ratio	9.00:1	
		Volume of onecombustion chamber	36.65 cm³ 2.236 cu in.	
		See separate sheet for dimensions		

/Contd.....



Make

FORD

Model

CORTINA GT

F.I.I.A. Rec. No.

5024

Ref Nos.

Ref Nos.	Part Description	Quantity	Dimensions / Notes	Part Nos.
181	(8) <u>INLET VALVE</u> Diameter		35.812mm	1.410 ins. 116E-6507D
196	(9) <u>EXHAUST VALVE</u> Diameter		31.625mm	1.245 ins. 116E-6505A
189	(10) <u>PAPER ELEMENT</u> <u>AIR FILTER.</u>			123E-9600A
189	(11) <u>OIL BATH</u> <u>AIR FILTER.</u>			116E-9600B
271	(12) <u>GEAR BOX</u> Ratio.	1	2.97 $\frac{30}{19} \times \frac{32}{17}$	118E-7001
		2	2.01 $\frac{30}{19} \times \frac{28}{22}$	
		3	1.40 $\frac{30}{19} \times \frac{23}{26}$	
		4	1.000 Direct	
	Reverse	3.324	$\frac{30}{19} \times \frac{40}{22}$ via 19	
293	(13) <u>ALTERNATIVE FINAL</u> <u>DRIVE RATIOS.</u>	4.125	4.7	
	No. of teeth.	33/8	33/7	
100	(14) <u>FRONT BRAKE</u>			118E-2011C
101	Outside diameter:		241.3mm	9.50 ins.
102	Thickness of disc:		9.5mm	.381 ins.
103	Length of brake: lining;		69.0mm	2.75 ins
105	Width of brake lining:		48.0mm	1.75 ins
105	Total area of brake:		5458mm ²	10.39 sq ins nominal
183	(15) <u>SINGLE VALVE SPRING.</u>			109E-6513
-	(16) <u>FRONT UNDERBODY SHIELD DURAL</u>			CD 6775-B
-	(17) <u>FRONT UNDERBODY SHIELD STEEL</u>			118E-6775-B
-	(18) <u>FUEL TANK SHIELD</u>			E915-T- L AUTOMOBILE
7	(19) Reference Item No. 7. When no reserve fuel tank fitted capacity is 36.37 litres or 9.66 US gallons or 8 imperial gallons.			Pt.No.CD 113E9002E)

/contd.....

Make FORD

Model CORTINA GT

F.I.A. Rec. No.
5024

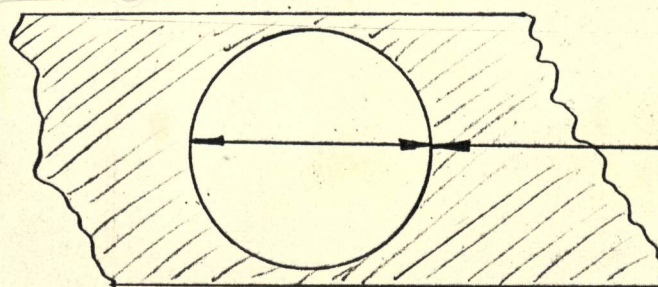
Ref Nos.

Part Nos.

- (20) CRANKSHAFT PULLEYS 105E-6312C
- (21) GENERATOR ADJUSTING STRAPS Thickness .175 ins 4.5 mm 26E-331 105E-10145-B
or
Thickness .350 ins 9.0 mm CD-10145-B
- 213 (22) CHOKES Choke diameter 27/28 mm CD-116E-9E514-B
CD-116E-9E514-A
- 1 (23) SECONDARY EXHAUST PIPE. 118E-CD-5230C
used in certain overseas territories.

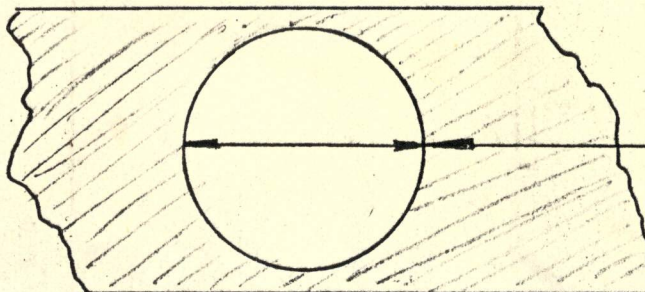


Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



1.21 DIA
30.63 MM.

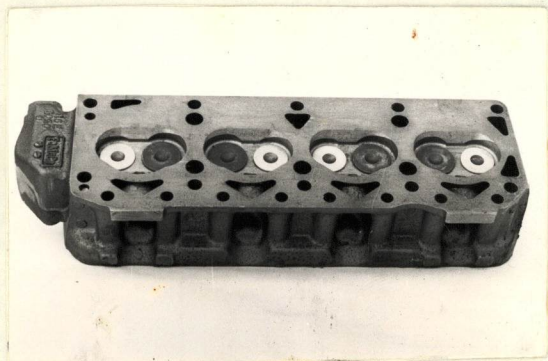
Drawing of exit to exhaust port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



1.145
29.0 MM.

\pm .030 thou.

Alternative (Ref No. 7)
Cylinder head.



AMENDMENT SHEET FOR THE CORTINA GT.

1. Reference article 9. Page 5. (Weight)
Should read 850 kgs and 1875 lbs and 16 cwt 83 lbs and
NOT 805 kgs or 1774 lbs or 15 cwt 94 lbs.
2. Reference Article 182. Page 9. (Inlet Valve Lift)
Should read 9.00 mm and .35 inches
NOT 6.12 mm and .245 inches.
3. Reference Alternatives No. 5 Page 13. (Camshaft)
Include:
Max Valve Lift (Inlet) 9.000 mm .3500 ins.
Max Valve Lift (Exhaust) 8.727 mm .3436 ins.
4. Reference article 181. Page 9. (Inlet Valve)
Should read 39.40 mm NOT 30.60

PROGRAMME OF ALTERNATIVES

1. Alternative Crankshaft (No. 3. Pt. No. 116E-6303B GT)
can only be used with connecting rods of article 163.
(Weight of .551 kgs)
2. Alternative Connecting rod (No. 4. Pt. No. 125E-26E714)
Can only be used with Crankshaft of article 162.
3. Alternatives 7, 8, and 9. Pt. Nos. 116E-6085-J
116E-6507-D
116E-6505-A

Can be used only together.
4. Alternatives 16 or 17 have only been fitted in conjunction with
Alternatives Nos. 18 and 23.
i.e; when a front underbody shield is fitted then a fuel tank
shield and the secondary exhaust pipe must also be fitted.





MOTOR SPORT DIVISION
 The Royal Automobile Club,
 31 Belgrave Square, London, S.W.1

Manufacturer... Ford Motor Company

Model... Cortina G.T.

F.I.A. Recognition No. 5024

Amendment No. 1.

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

Reference No.

Optional Equipment - Group I

1.

292

Four pinion Salisbury limited slip differential

Part No. CD2927E-4204A.

Date amendment is valid from.....

Stamp of F.I.A./R.A.C.



MOTOR SPORT DIVISION
The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Manufacturer Ford Motor Company

Model Cortina GT

F.I.A. Recognition No. 5024

Amendment No. 2 *A*

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

Reference No.

Additional Optional Equipment Group II

Wheels: Alternatives available:

- | | | |
|----|-----|------------------------------------|
| 1. | 50. | Type: Cast Elektron C |
| | 52. | Method of attachment: 4 nut fixing |
| | 53. | Rim diameter: 330 mm. 13 ins. |
| | 54. | Rim width: 114.5 mm. 4.5 ins. |
| 2. | 50. | Type: Cast Elektron C |
| | 52. | Method of attachment: 4 nut fixing |
| | 53. | Rim diameter: 330 mm. 13 ins. |
| | 54. | Rim width: 139.7 mm. 4.5 ins. |

Alternative Gear Ratios

- | | | | | |
|----|------|----|-------|--------------------------------------|
| 3. | 277. | 1. | 2.296 | $\frac{28}{21} \times \frac{31}{18}$ |
| | | 2. | 1.697 | $\frac{28}{21} \times \frac{28}{22}$ |
| | | 3. | 1.28 | $\frac{28}{21} \times \frac{24}{25}$ |

- | | | |
|----|------|---|
| 4. | 292. | Four pinion Salisbury limited slip differential |
|----|------|---|

→ Group 1 (one)

Part No. CD2927E-4204A

- | | | | |
|----|------|-------------------|--|
| 5. | 181. | <u>ERRATA</u> | Diameter of valves should read 34.39 (Inlet) |
| | 196. | <i>GP I (one)</i> | Diameter of valves should read 30.60 (Exhaust) |

Date amendment is valid from

14 August 1966

