



Make

Toyota

Model

RT54

F. I. A. Rec. No.

IMPORTANT - the underlined items must be stated in two measuring systems, one of which must be the metric system. See conversion table hereafter.

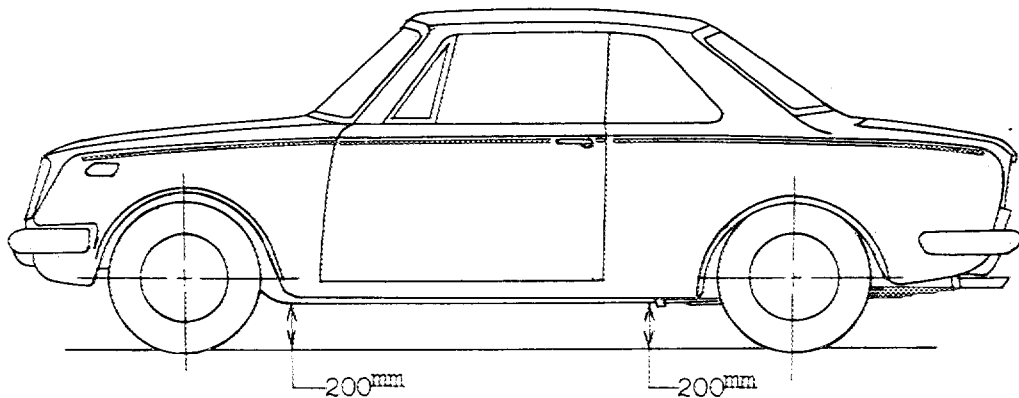
**CAPACITIES AND DIMENSIONS**

1. <u>Wheelbase</u>	2420	mm	95.3	inches
2. <u>Front track</u>	1290	mm	50.8	inches *
3. <u>Rear track</u>	1270	mm	50.0	inches *
4. Overall length of the car	408.5	cm		inches
5. Overall width of the car	156.5	cm		inches
6. Overall height of the car	137.5	cm		inches
7. <u>Capacity of fuel tank</u> (reserve included)			45	ltrs
	11.9	Gallon US		Gallon Imp.
8. Seating capacity			4	
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:				
	945	kg	2085	lbs
				cwt

\* Differences in track caused by the use of other wheels with different rim widths must be stated when recognition is requested for the wheels concerned.

Specify ground clearance in relation to the track and give drawing of two fixed points of the vehicle's structure at which measurements are taken.

These ground clearance dimensions are only for information when checking the track and can in no way affect the eligibility of the car.



**CONVERSION TABLE**

1 inch / pouce	-- 2.54 cm	1 quart US	-- 0.9464 ltrs
1 foot / pied	-- 30.4794 cm	1 pint (pt)	-- 0.568 ltrs
1 square inch / pouce carré	-- 6.452 cm <sup>2</sup>	1 gallon imp.	-- 4.546 ltrs
1 cubic inch / pouce cube	-- 16.387 cm <sup>3</sup>	1 gallon US	-- 3.785 ltrs
1 pound / livre (lb)	-- 453.593 gr.	1 hundred weight (cwt)	-- 50.802 kg

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**CHASSIS AND COACHWORK** (Photographs A, B and C)

- 20. Chassis/body construction : ~~XXXXXX~~ / unitary construction
- 21. Unitary construction, material (s) **Steel**  
Separate construction
- 22. Separate Constructions: Material(s) of chassis
- 23. Material (s) of coachwork
- 24. Number of doors **2** Material (s) **Steel**
- 25. Material (s) of bonnet **Steel**
- 26. Material (s) of boot lid **Steel**
- 27. Material (s) of rear-window **Glass**
- 28. Material (s) of windscreen **Glass**
- 29. Material (s) of front-door windows **Glass**
- 30. Material (s) of rear-door windows
- 31. Sliding system of door windows **Vertical, Manual**
- 32. Material (s) of rear-quarter light **Glass**

**ACCESSORIES AND UPHOLSTERY**

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

<b>16 x 2</b>	kg	lbs
---------------	----	-----
- 43. Rear seats, type of seats and upholstery **Bench, Vinyl leather**
- 44. Front bumper, material (s) **Steel**      Weight **8.0**      kg      lbs
- 45. Rear bumper, material (s) **Steel**      Weight **6.7**      kg      lbs

**WHEELS**

- 50. Type **Pressed steel**
- 51. Weight (per wheel, without tyre) **6.7, 7.7**      kg      lbs
- 52. Method of attachment **4 Nuts**
- 53. Rim diameter      **356**      mm      **14**      inches
- 54. Rim width      **114, 127**      mm      **4 $\frac{1}{2}$ , 5**      inches

**STEERING**

- 60. Type **Recirculating ball**
- 61. Servo-assistance : ~~XXXX~~ - no
- 62. Number of turns of steering wheel from lock to lock **3 $\frac{3}{4}$**
- 63. In case of servo-assistance

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**SUSPENSION**

70. Front suspension (photogr. D), type Independent, wishbone  
71. Type of spring Coil  
72. Stabiliser (if fitted) Torsion bar  
73. Number of shockabsorbers 2 74. Type Hydraulic telescopic  
78. Rear suspension (photogr. E), type Rigid  
79. Type of spring Leaf  
80. Stabiliser (if fitted)  
81. Number of shockabsorbers 2 82. Type Hydraulic telescopic

**BRAKES** (photographs F and G)

90. System Hydraulic  
91. Servo-assistance (if fitted), type  
92. Number of hydraulic master cylinders 1  
93. Number of cylinders per wheel FRONT 2 REAR 1

94. Bore of wheel cylinder (s) 48.1 mm in. 19.05 mm in.  
95. Inside diameter mm in. 228.6 mm in.  
96. Length of brake linings mm in. 199, 249 mm in.  
97. Width of brake linings mm in. 35 mm in.  
98. Number of shoes per brake 2  
99. Total area per brake mm<sup>2</sup> sq. in. 157x10<sup>2</sup> mm<sup>2</sup> sq. in.

**Disc brakes**

100. Outside diameter 241 mm in. mm in.  
101. Thickness of disc 10 mm in. mm in.  
102. Length of brake linings 47.5 mm in. mm in.  
103. Width of brake linings 60.9 mm in. mm in.  
104. Number of pads per brake 2  
105. Total area per brake 56x10<sup>2</sup> mm<sup>2</sup> sq. in. mm<sup>2</sup> sq. in.

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**ENGINE** (photographs J and K)

130. Cycle	4	131. Number of cylinders	4
132. Cylinder arrangement	In line		
133. Bore	86 mm	134. Stroke	68.5 mm
	3.38 in.		2.69 in.
135. Capacity per cylinder	398		cm <sup>3</sup> 24.2 cu. in.
136. Total cylinder-capacity	1591		cm <sup>3</sup> 97.0 cu. in.
137. Material (s) of cylinder block	Cast iron		
138. Material (s) of sleeves (if fitted)			
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	9.5		
143. Volume of one combustion chamber		46.8	cm <sup>3</sup> cu. in.
144. Piston, material	Al-cast	145. Number of rings	3
146. Distance from gudgeon pin centre line to highest point of piston crown	39.8 mm		inches
147. Crankshaft : <del>XXXXXX</del> / stamped		148. Type of crankshaft : integral / <del>XXXXXX</del>	
149. Number of crankshaft main bearings		5	
150. Material of bearing cap		Cast iron	
151. System of lubrication : <del>XXXXXX</del> / oil in sump			
152. Capacity, lubricant	4.1 ltrs		pts quarts US
153. Oil cooler : <del>xxx</del> / no		154. Method of engine cooling	Water
155. Capacity of cooling system	7.4 ltrs		pints quarts US
156. Cooling fan (if fitted), dia.	36 cm		inches
157. Number of blades of cooling fan		4	

**Bearings**

158. Crankshaft main, type	Plain	Dia.	60	mm	in.
159. Connecting rod big end,	Plain	Dia.	53	mm	in.

**Weights**

160. Flywheel (clean)	10.6	kg	lbs
161. Flywheel with clutch (all turning parts)	16.6	kg	lbs
162. Crankshaft	15	kg	lbs
163. Connecting rod	0.85	kg	lbs
164. Piston with rings and pin	0.55	kg	lbs

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**FOUR STROKE ENGINES**

170. Number of camshafts **1** 171. Location **Cylinder head**  
 172. Type of camshaft drive **Chain**  
 173. Type of valve operation **Rocker**

**INLET** (see page <sup>8</sup>) \*

180. Material(s) of inlet manifold **Al-cast**  
 181. Diameter of valves **43** mm **1.69** inches  
 182. Max. valve lift **10** mm **0.39** in. 183. Number of valve springs **2**  
 184. Type of spring **Coil** 185. Numbr of valves per cylinder **1**  
 186. Tappet clearance for checking timing (cold) mm **0.007** inches  
 187. Valves open at (with tolerance for tappet clearance indicated) **B.T.D.C. 15° ± 7°**  
 188. Valves close at (with tolernce for tappet clearance indicated) **A.B.D.C. 45° ± 7°**  
 189. Air filter, type **Dry**

**EXHAUST** (see page <sup>8</sup>)

195. Material (s) of exhaust manifold **Cast iron**  
 196. Diameter of valves **34** mm **1.34** inches  
 197. Max. valve lift **10** mm **0.39** in. 198. Number of valve springs **2**  
 199. Type of spring **Coil** 200. Number of valves per cylinder **1**  
 201. Tappet clearance for checking timing (cold) mm **0.013** inches  
 202. Valves open at (with tolerance for tappet clearance indicated) **B.B.D.C. 50° ± 7°**  
 203. Valves close at (with tolerance for tappet clearance indicated) **A.T.D.C. 10° ± 7°**

**CARBURETION** (photograph N)

210. Number of carburetors fitted **2** 211. Type **Side draught (SU)**  
 212. Make **Aisan** 213. Model **7R - B**  
 214. Number of mixture passages per carburettor **1**  
 215. Flange hold diameter of exit port(s) of carburettor **44** mm in.  
 216. Minimum dimensions of mixture pasage (s) with piston at max. height (example: SU)  
**32** mm inches

**INJECTION** (if fitted)

220. Make of pump 221. Number of plungers  
 222. Model or type of pump 223. Total number of injectors  
 224. Location of injectors  
 225. Minimum diameter of inlet pipe mm inches

\* : for additional information concerning two-stroke engines and super-charged engines see page 13.

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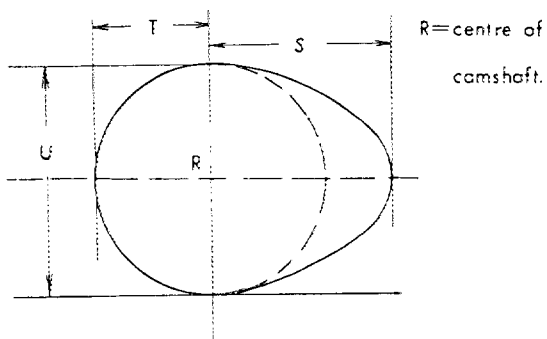
**ENGINE ACCESSORIES**

- 230. Fuel pump : mechanical ~~XXXXXXXXXXXX~~
- 231. No. fitted 1
- 232. Type of ignition system Make and break ignition
- 233. No. of distributors 1
- 234. No. of ignition coils 1
- 235. No. of spark plugs per cylinder 1
- 236. Generator, type ~~XXXXX~~ alternator-number fitted 1
- 237. Method of drive V belt
- 238. Voltage of generator 12 volts
- 239. Battery, number 1
- 240. Location Engine room
- 241. Voltage of battery 12 volts

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

- 250. Max. engine output 100 PS (type of horsepower: JIS ) at 6200 rpm
- 251. Maximum rpm 6500 output at that figure 95 PS
- 252. Maximum torque 13.6 kg-m at 4200 rpm
- 253. Maximum speed of the car 165 km/hour miles / hour

255.



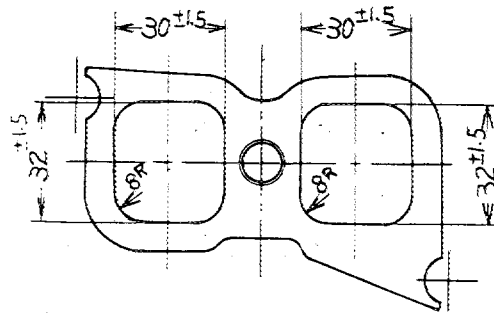
<u>Inlet cam</u>				
S =	26.1	mm	1.028	inches
T =	18.0	mm	0.709	inches
U =	36.0	mm	1.418	inches
<u>Exhaust cam</u>				
S =	26.2	mm	1.032	inches
T =	18.0	mm	0.709	inches
U =	36.1	mm	1.421	inches

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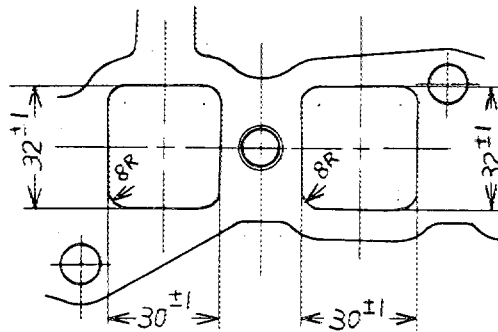
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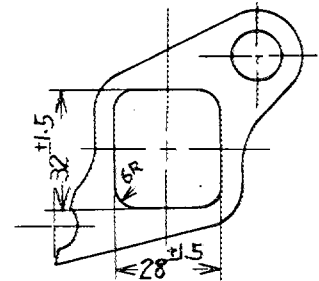
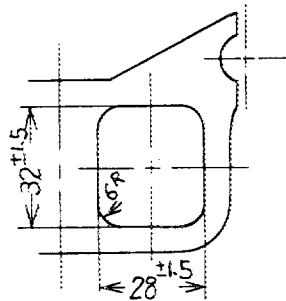
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



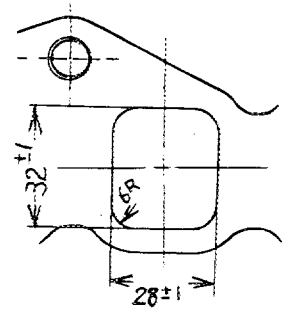
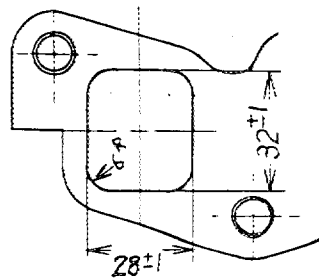
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



Drawing exhaust manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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



Unit : mm



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**DRIVE TRAIN**

**CLUTCH**

- 260. Type of clutch **Dry single plate** 261. No. of plates **1**
- 262. Dia. of clutch plates **20.5** cm inches
- 263. Dia. of linings, inside **14.0** cm in. outside **20.0** cm in.
- 264. Method of operating clutch **Hydraulic**

**GEAR BOX** (photograph H)

- 270. Manual type, make **Toyota** Method of operation **Mechanical**
- 271. No. of gear-box ratios forward **4** 272. Synchronized forward ratios **1,2,3 &4**
- 273. Location of gear-shift **Floor**
- 274. Automatic, make type
- 275. No. of forward ratios 276. Location of gear-shift

277.	Manual		Automatic		Alternative manual <del>xxxxxxx</del>			
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	3.673	$\frac{31}{18} \times \frac{32}{15}$			3.337	$\frac{31}{18} \times \frac{31}{16}$		
2	2.114	$\frac{31}{18} \times \frac{27}{22}$			1.948	$\frac{31}{18} \times \frac{26}{23}$		
3	1.403	$\frac{31}{18} \times \frac{22}{27}$			1.340	$\frac{31}{18} \times \frac{21}{27}$		
4	1.000				1.000			
5								
6								
reverse	4.183	$\frac{31}{18} \times \frac{34}{14}$			4.183	$\frac{31}{18} \times \frac{21}{27}$		

- 278. Overdrive, type
- 279. Forward gears on which overdrive can be selected
- 280. Overdrive ratio

**FINAL DRIVE**

- 290. Type of final drive **Hypoid gear**
- 291. Type of differential **Bevel gear**
- 292. Type of limited slip differential (if fitted)
- 293. Final drive ratio **3.70, 3.90, 4.111, 4.625**
- Number of teeth **37/10, 39/10, 37/9, 37/8**

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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, 184, 186, 187, 188, 189, 199, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 250, 251, 252, 253, and photographs I, M and N.

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.

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

7. Capacity of fuel tank 90 ltrs

23.8 Gallon US

91. Servo-assistance, type Vacuum servo

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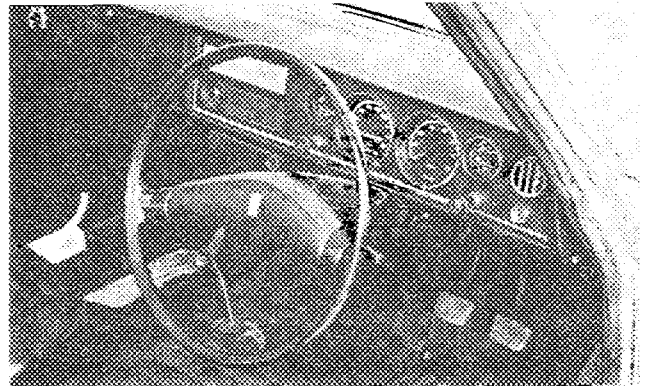
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**Photograph**

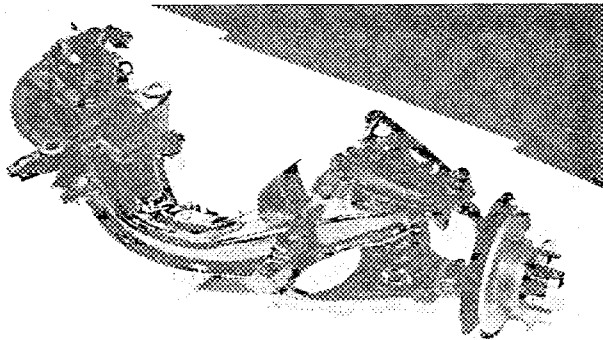
**B,** 3/4 view of car from rear



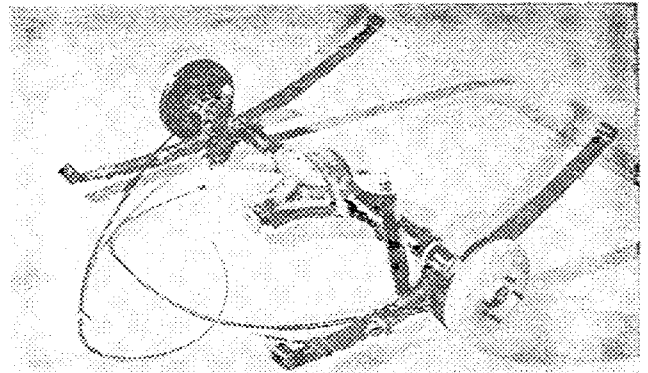
interior view of car through driver's door (open or removed)  
**C,** with dashboard



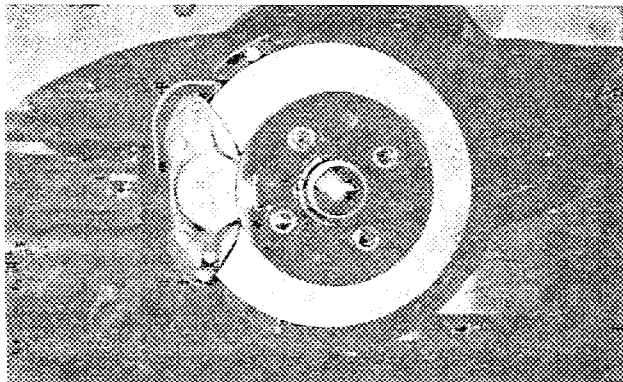
**D,** front axle complete, removed from car. Without wheels.



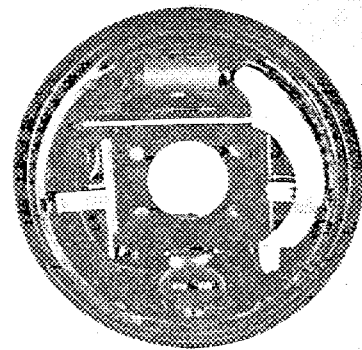
**E,** Rear axle complete without wheels, removed from car.



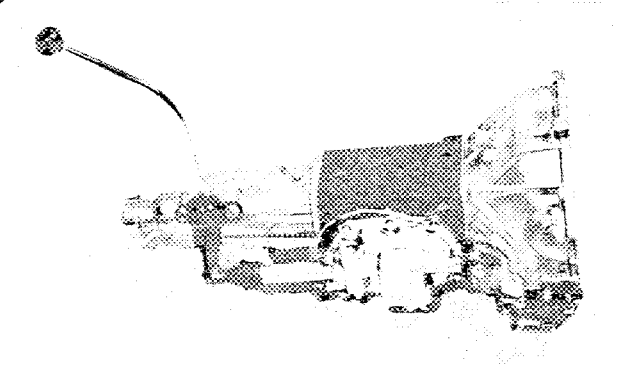
**F,** front brake. drum removed or disc with calipers!



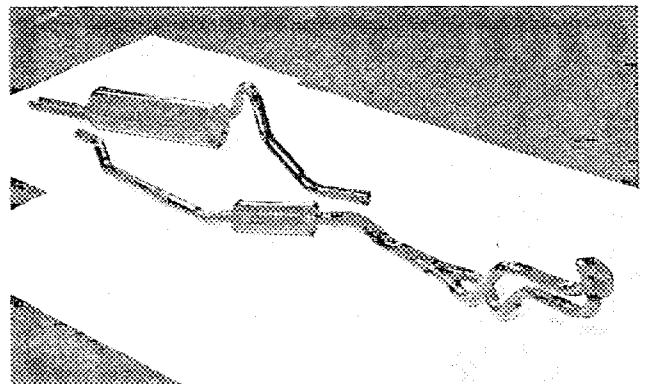
**G,** rear brake. drum removed or disc with calipers!



**H,** gear-box, view from side



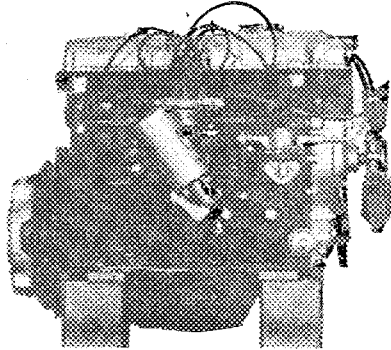
**I,** silencer + exhaust pipes after exhaust manifold.



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engine unit out of car, from right. With clutch and J. accessories but without air filter nor gear-box.



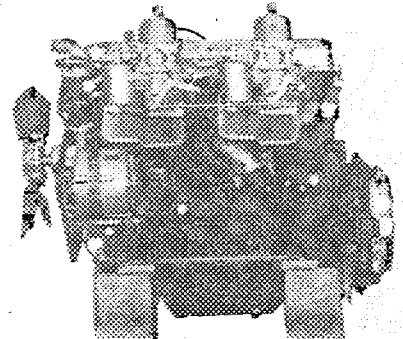
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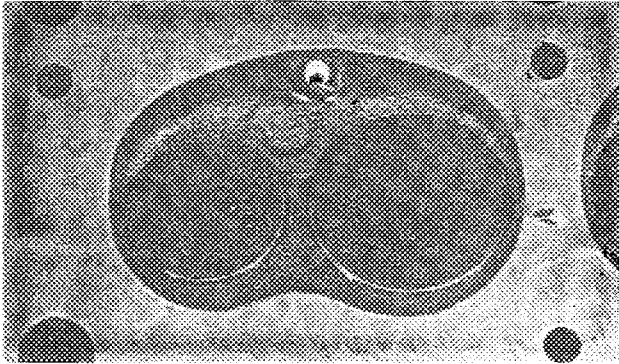
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Photograph

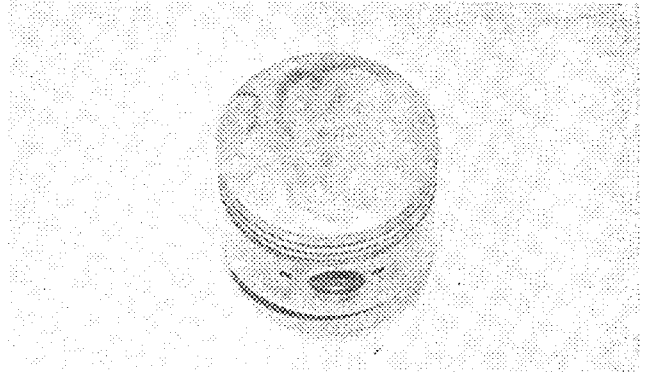
Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter



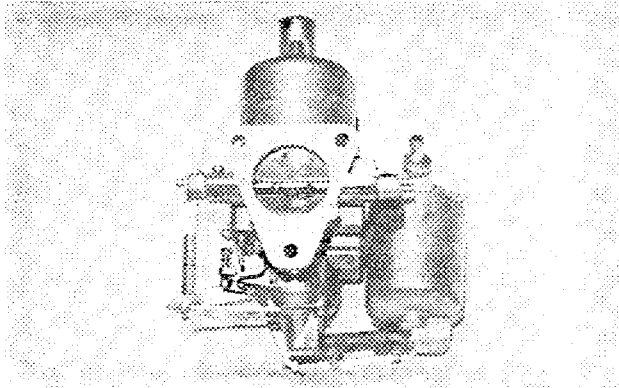
L, combustion chamber



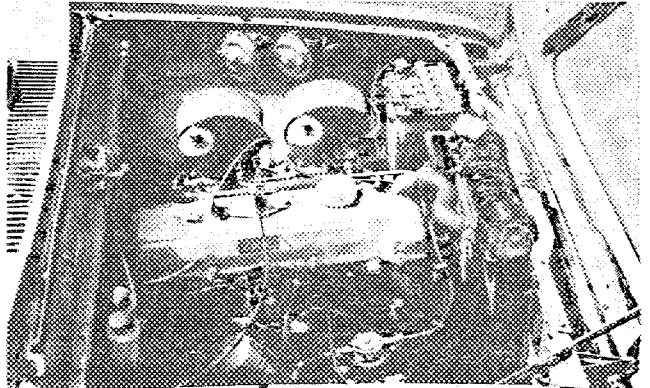
M, piston crown



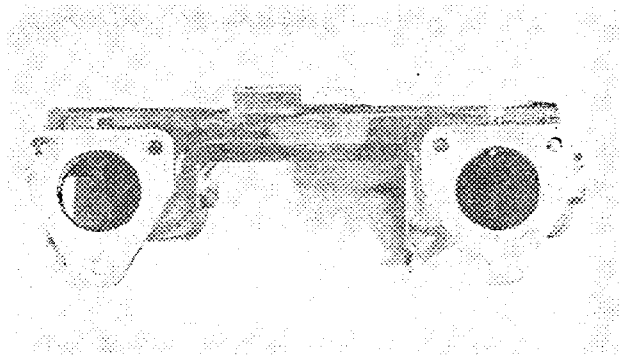
N, Carburettor (view from side of manifold)



O, engine in car with all accessories, bonnet open or removed.



P, inlet manifold



Q, exhaust manifold

