JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. 584
Group 3

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer: Toyota Motor Co., Ltd.
Serial No. of chassis: RT 55 - 10001
engine: 9R - 10001
Recognition is valid from

Cylinder-capacity: 1,587 cm3 96.9 cu. in.
Model: RT 55 1600-GT
Manufacturer: Toyota Motor Co., Ltd.
Manufacturer: Toyota Motor Co., Ltd.
List

The manufacturing of the model described in this recognition form was started on May 1967 and the minimum production of 1000 identical cars, in accordance with the specifications of this form was reached on November 1967

Photograph A, 3/4 view of car from front

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

Variants

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

Normal evolution of the type

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

Stamp and signature of the National Sporting Authority

Stamp and signature of the F. I. A.

1. 1. 1968

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Make Toyota Model. RT 55 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 coversion table hereafter.

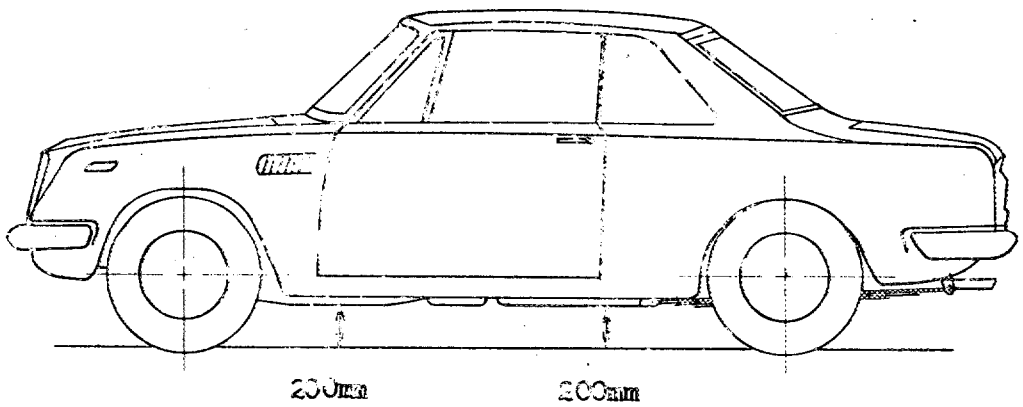
CAPACITIES AND DIMENSIONS

1. Wheelbase	2,420	mm		95.3	inches		
2. Front track	1,290	mm		50.8	inches *		
3. Rear track	1,270	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. Capacity of fuel tank (reserve included)					45	ltrs	
	11.9	Gallon US				Gallon Imp.	
8. Seating capacity	4						
9. Weight, total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:							
	980	kg		2,160	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^2	1 gallon Imp.	— 4.546 ltrs
1 cubic inch / pouce cube	— 16.387 cm^3	1 gallon US	— 3.785 ltrs
1 pound / livre (lb)	— 453.593 gr.	1 hundred weight (cwt)	— 50.802 kg

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Make Toyota Model RT 55 F.I.A. Rec. No.

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis / body construction : ~~separate~~ / 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 : ~~yes~~ - no
39. Air-conditioning : ~~yes~~ - no
40. Ventilation : yes - ~~no~~
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 :

14.1 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 (4½J - 14) / 7.7 (5J - 14) kg lbs
52. Method of attachment 4 Nuts
53. Rim diameter 356 mm 14 inches
54. Rim width 114, 127 mm 4½, 5 inches

STEERING

60. Type Recircurating Ball
61. Servo-assistance : ~~yes~~ - no
62. Number of turns of steering wheel from lock to lock 3 - 3/4
63. In case of servo-assistance

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Make Toyota Model RT 55 F. I. A. Rec. No.

SUSPENSION

70. Front suspension (photogr. D), type: Independent
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

	FRONT		REAR	
93. Number of cylinders per wheel	2		1	
94. Bore of wheel cylinder (s)	mm 1-7/8	in.	mm 11/16	in.
Drum brakes				
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	mm²	sq. in. 157 x 10^2 mm²		sq. in.
Disc brakes				
100. Outside diameter	268 mm	in.	mm	in.
101. Thickness of disc	10,4 mm	in.	mm	in.
102. Length of brake linings	54 mm	in.	mm	in.
103. Width of brake linings	47 mm	in.	mm	in.
104. Number of pads per brake.	2			
105. Total area per brake	51 x 10^2 mm²	sq. in.	mm²	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 80.5 mm 3.17 in. 134. Stroke 78 mm 3.07 in.

135. Capacity per cylinder 397 cm³ 24.2 cu. in.

136. Total cylinder-capacity 1,587 cm³ 96.8 cu. in.

137. Material (s) of cylinder block Cast Iron

138. Material (s) of sleeves (if fitted)

139. Cylinder-head, material (s) Al-Alloy Number fitted 1

140. Number of inlet ports 4 141. Number of exhaust ports 4

142. Compression ratio 9.0

143. Volume of one combustion chamber 50 cm³ cu. in.

144. Piston, material Al-Alloy 145. Number of rings 3

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

55 ± 0.15 mm inches

147. Crankshaft : ~~moulded~~ / stamped 148. Type of crankshaft : integral /

149. Number of crankshaft main bearings 3

150. Material of bearing cap Cast Iron

151. System of lubrication : ~~dry sump~~ / oil in sump

152. Capacity, lubricant 3.8 ltrs pts quarts US

153. Oil cooler : ~~yes~~ / no 154. Method of engine cooling Water

155. Capacity of cooling system 8.2 ltrs pints quarts US

156. Cooling fan (if fitted), dia. 30 cm inches

157. Number of blades of cooling fan 2

Bearings

158. Crankshaft main, type Plain Dia. 58 mm in.

159. Connecting rod big end, Plain Dia. 50 mm in.

Weights

160. Flywheel (clean) 11 kg lbs

161. Flywheel with clutch (all turning parts) 16 kg lbs

162. Crankshaft 15 kg lbs 163. Connecting rod 0.39 kg lbs

164. Piston with rings and pin 0.53 kg lbs

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FOUR STROKE ENGINES

170. Number of camshafts 2 171. Location Cylinder Head

172. Type of camshoft drive Duplex Chain

173. Type of valve operation Direct

INLET (see page 8) *

180. Material(s) of inlet manifold Al-Alloy

181. Diameter of valves 45 mm 1.77 inches

182. Max. valve lift 9.0 mm 0.35 in. 183. Number of valve springs 2

184. Type of spring Coil 185. Numbdr of valves per cylinder 1

186. Tappet clearance for checking timing (cold) 0.15 mm inches

187. Valves open at (with tolerance for tappet clearance indicated) 28° BTDC

188. Valves close at (with tolernce for tappet clearance indicated) 48° ABDC

189. Air filter, type Dry

EXHAUST (see page 8)

195. Material (s) of exhaust manifold Cast Iron

196. Diameter of valves 40 mm 1.57 inches

197. Max. valve lift 9.0 mm 0.35 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) 0.35 mm inches

202. Valves open at (with tolerance for tappet clearance indicated) 52° BBDC

203. Valves close at (with tolerance for tappet clearance indicated) 24° ATDC

CARBURETTION (photograph N)

210. Number of carburettors fitted 2 211. Type Side Draught

212. Make Mikuni 213. Model 21100-88201
21100-88202

214. Number of mixture passages per caburettor 2

215. Flange hole diameter of exit port(s) of carburetteor 40 & 40 mm in.

216. Minimum dimensions of mixture pasage (s) ~~with piston at max height (example 6th)~~

32 & 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. Locafion 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 and~~ / or electric — 231. No. fitted: 1

232. Type of ignition system: Make & Break Ignition — 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: 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)

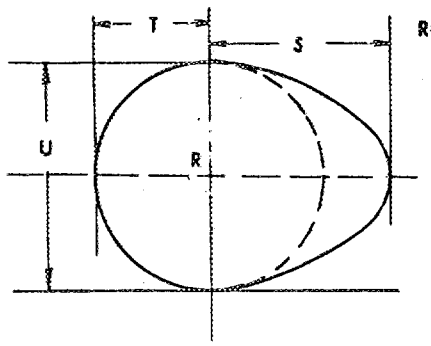
250. Max. engine output: 110 PS (type of horsepower: JIS) at 6,200 rpm

251. Maximum rpm: 6,600 — output at that figure: 108 PS

252. Maximum torque: 14.0 kg-m at 5,000 rpm

253. Maximum speed of the car: 175 km/hour — miles/hour

255.



R=centre of camshaft.

Inlet cam				
S =	25,9	mm	1.01	inches
T =	16,5	mm	0,65	inches
U =	33,1	mm	1,30	inches
Exhaust cam				
S =	25,9	mm	1.01	inches
T =	16,5	mm	0,65	inches
U =	33,1	mm	1,30	inches

Make Toyota

Model RT 55

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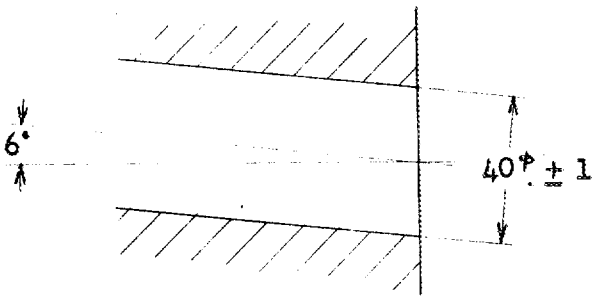
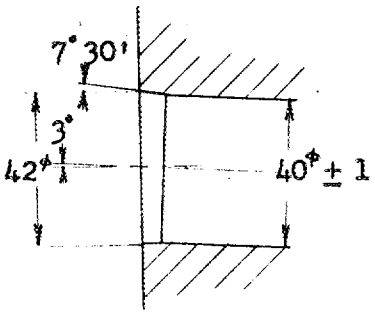
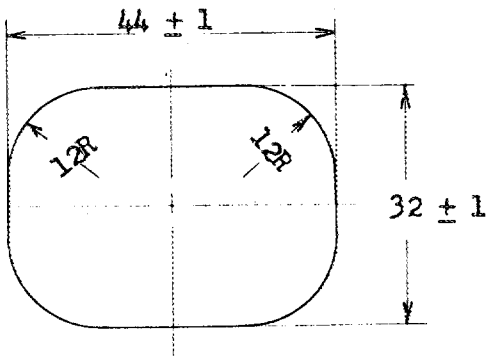
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



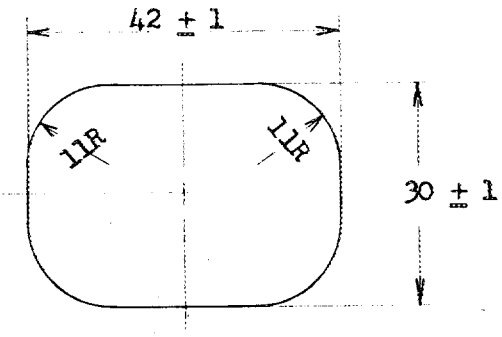
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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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Make Toyota Model RT 55 F.I.A. Rec. No.

DRIVE TRAIN

CLUTCH

260. Type of clutch Dry Single Plate Friction 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 & 5 272. Synchronized forward ratios 1, 2, 3, & 4
1, 2, 3, 4, & 5

273. Location of gear-shift Floor

274. Automatic, make type

275. No. of forward ratios 276. Location of gear-shift

277.	Manual Ratio	Manual No. teeth	Automatic Ratio	Automatic No. teeth	Alternative manual/automatic Ratio	Alternative manual/automatic No. teeth	Alternative manual/automatic Ratio	Alternative manual/automatic No. teeth
1	3.673	$\frac{31}{18} \times \frac{32}{15}$			3.337	$\frac{31}{18} \times \frac{31}{16}$	3.143	$\frac{28}{21} \times \frac{33}{14}$
2	2.114	$\frac{31}{18} \times \frac{27}{22}$			1.948	$\frac{31}{18} \times \frac{26}{23}$	1.636	$\frac{28}{21} \times \frac{27}{22}$
3	1.403	$\frac{31}{18} \times \frac{22}{27}$			1.340	$\frac{31}{18} \times \frac{21}{27}$	1.179	$\frac{28}{21} \times \frac{23}{26}$
4	1.0				1.0		1.0	
5							0.844	$\frac{28}{21} \times \frac{19}{30}$
6								
reverse	4.183	$\frac{31}{18} \times \frac{34}{14}$			4.183	$\frac{31}{18} \times \frac{34}{14}$	3.238	$\frac{28}{21} \times \frac{34}{14}$

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) Friction

293. Final drive ratio 3.90, 4.11, 4.375, 4.625, 4.875, 5.286

Number of teeth 39/10, 37/9, 35/8, 37/8, 39/8, 37/7

Make Toyota Model RT 55 F.I.A. Rec. No

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.

Optional equipment affecting preceeding 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

277.	Alternative manual			
1	2.148	$\frac{28}{21} \times \frac{29}{18}$	3.143	$\frac{28}{21} \times \frac{33}{14}$
2	1.449	$\frac{28}{21} \times \frac{25}{28}$	1.636	$\frac{28}{21} \times \frac{27}{22}$
3	1.179	$\frac{28}{21} \times \frac{29}{28}$	1.231	$\frac{28}{21} \times \frac{24}{28}$
4	1.0		1.0	
5	0.673	$\frac{28}{21} \times \frac{29}{29}$	0.644	$\frac{28}{21} \times \frac{29}{30}$
6				
reverse	3.238	$\frac{28}{21} \times \frac{34}{14}$	3.238	$\frac{28}{21} \times \frac{34}{14}$

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Make Toyota

Model RT 55

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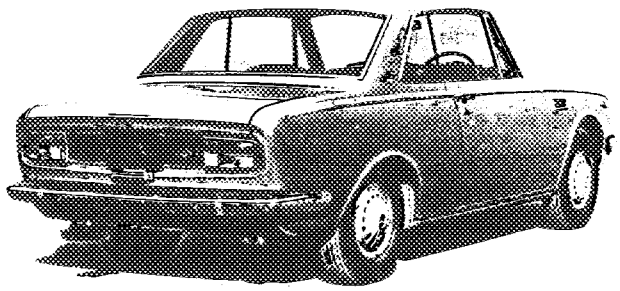
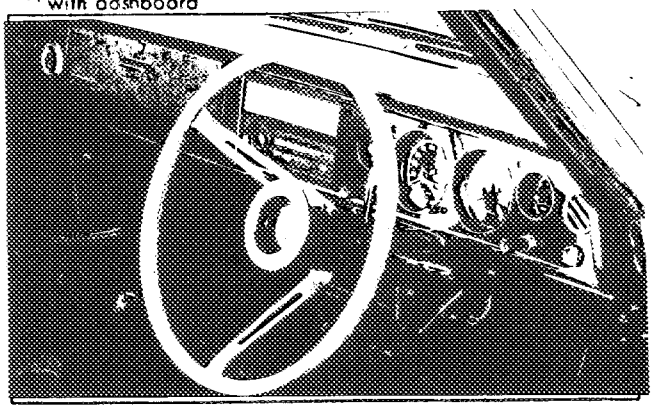
Photograph

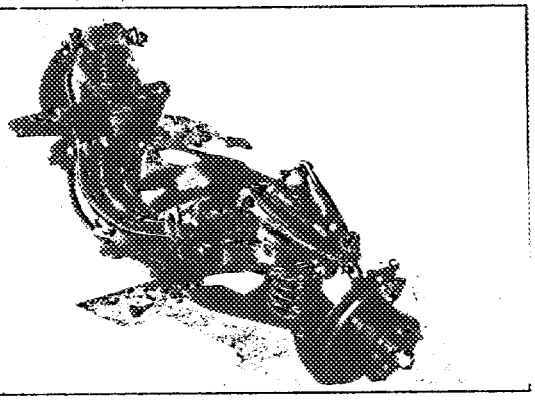
B, 3/4 view of car from rear



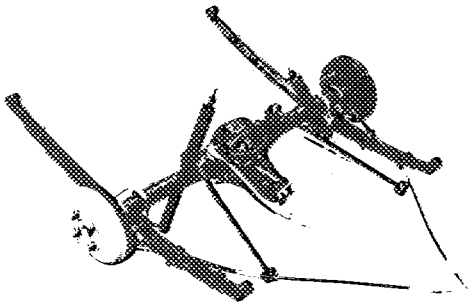
C, interior view of car through driver's door (open or removed) with dashboard



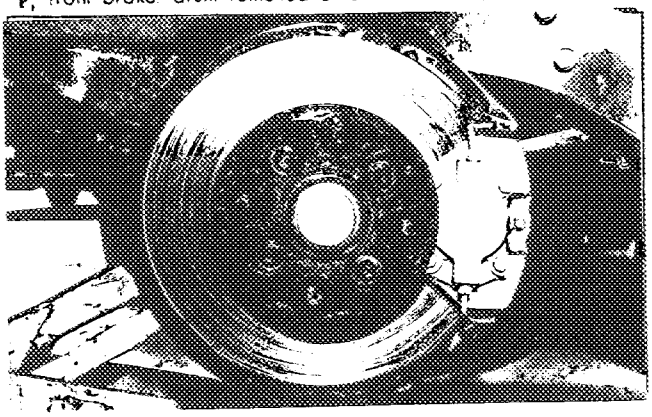
D, front axle complete, removed from car. Without wheels.



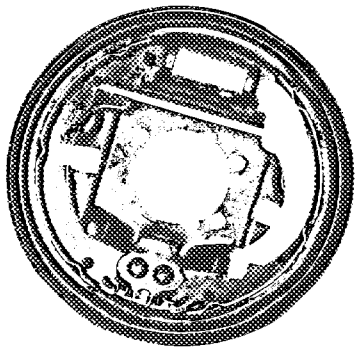
E, Rear axle complete without wheels, removed from car.



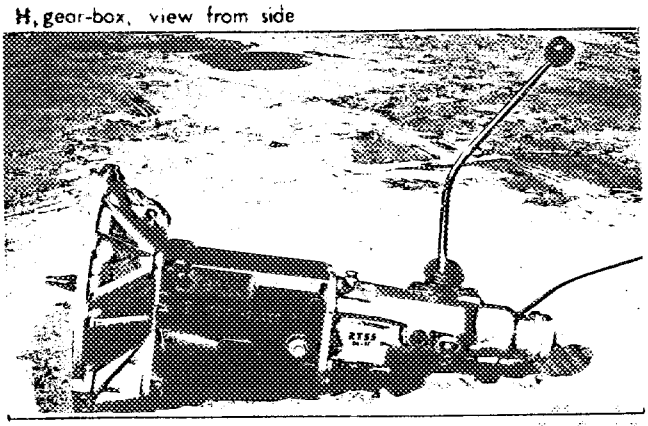
F, front brake drum removed or disc with caliper(s)



G, rear brake drum removed or disc with caliper(s)



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold.

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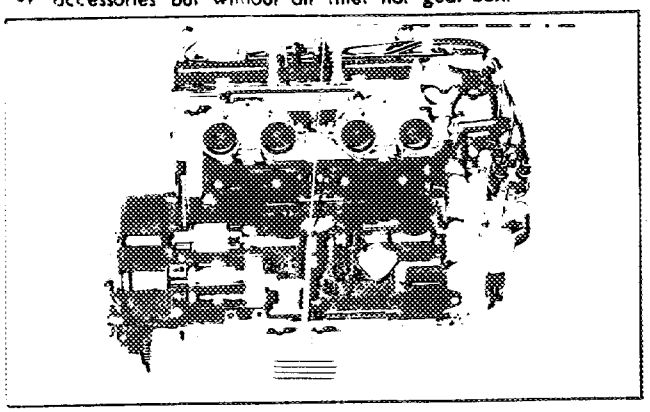
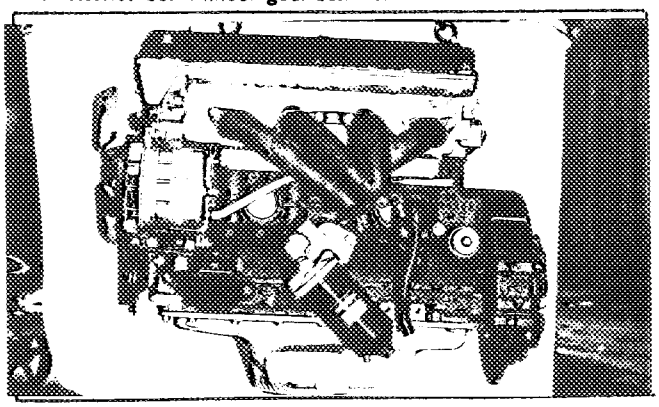
Make Toyota **Photograph** Model RT 55 F. I. A. Rec. No

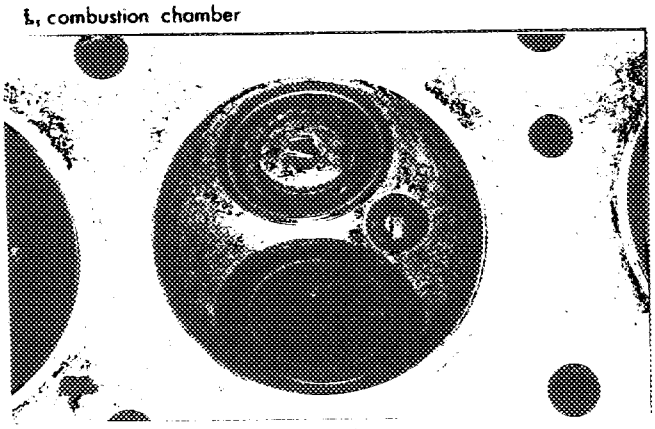
J, engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.



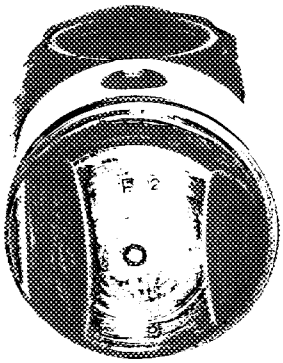
K, Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



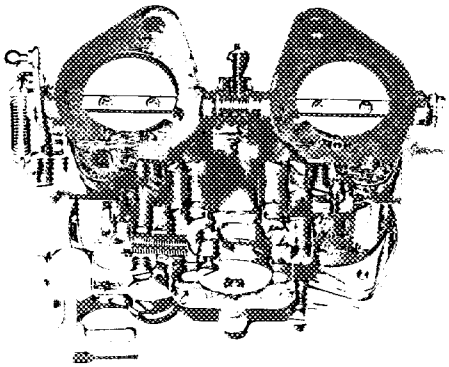
L, combustion chamber



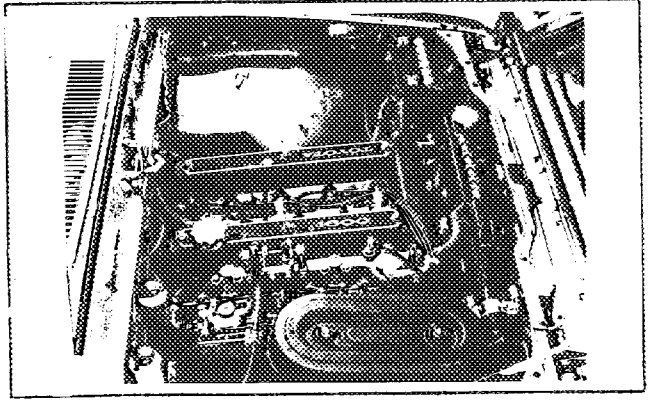
M, piston crown



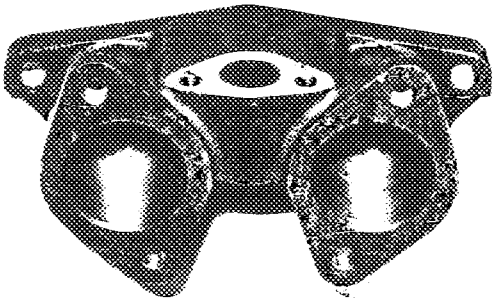
N, Carburettor (view from side of manifold)



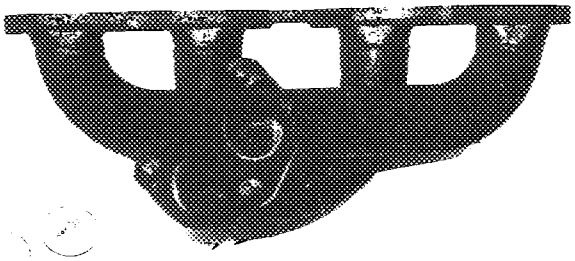
O, engine in car with all accessories, bonnet open or removed.



P, inlet manifold



Q, exhaust manifold



unit : mm

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Make Toyota Model RT 55 F.I.A. Rec. No.

TWO STROKE ENGINES

300. System of cylinder scavenging

301. Type of lubrication

302. Inlet ports, length measured around cylinder wall mm inches

303. Height inlet port mm in. 304. Area mm^2 sq. in.

305. Exhaust ports, length measured around cylinder wall mm inches

306. Height exhaust port mm in. 307. Area mm^2 sq. in.

308. Transfer port, length measured around cylinder wall mm inches

309. Height transfer port mm in. 310. Area. mm^2 sq. in.

311. Piston ports, length measured around piston mm inches

312. Height piston port mm in. 313. Area mm^2 sq. in.

314. Method of precompression 315. Precompression cyl.: yes /no

316. Bore mm inches 317. Stroke mm inches

318. Distance from top of cyl. block to highest point of exhaust port : mm inches

319. Distance from top of cyl. block to lowest point of inlet port : mm inches

320. Distance from top of cyl. block to highest point of transfer port : mm inches

321. Drawing of cylinder ports.

330. Supercharging—state full details hereafter :

JAPAN AUTOMOBILE FEDERATION

Kazunari Komotori

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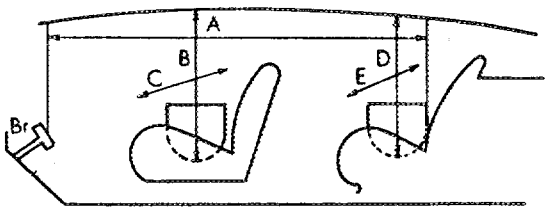
Make Toyota Model RT 55 F.I.A Rec. No.

DIMENSIONS OF INTERIOR

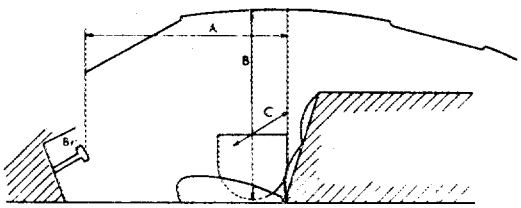
(Conform to Art. 253 b of Appendix J)

For four seaters :



Minimum Dimensions				
A	B	C	D	E
161 cm	93 cm	128 cm	93 cm	126 cm

For two seaters :



Minimum Dimensions		
A	B	C
cm	cm	cm