



# JAPAN AUTOMOBILE FEDERATION

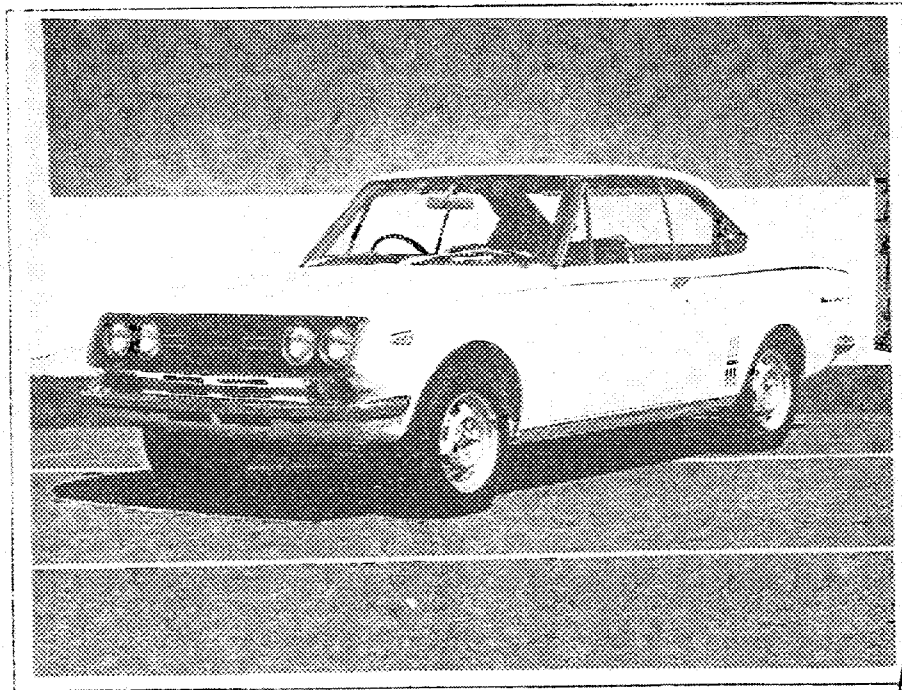
F. I. A. Recognition No. **1582**  
Group **2**

## FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer: **Toyota Motor Co., Ltd.**      Cylinder-capacity      **1858**      cm<sup>3</sup>      **113.3**      in.  
 Serial No. of chassis: **RT75-000001**      Model: **Corona Mark II Hardtop GSS**  
 engine: **10R-0000001**      Manufacturer: **Toyota Motor Co., Ltd.**      RT75-M  
 Recognition is valid from: **1/1/70**      List: **7011**  
 The manufacturing of the model described in this recognition form was started on **July 19 69** and the minimum production of **1000** identical cars, in accordance with the specifications of this form was reached on **Nov, 19 69**

Photograph A, 3/4 view of car from front



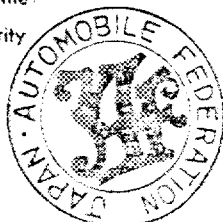
東京都港区芝公園第三号地一番五  
 機械振興会館内  
 法人団 日本自動車連盟



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

Variants				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	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.

Make Toyota

Model RT75-M

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.

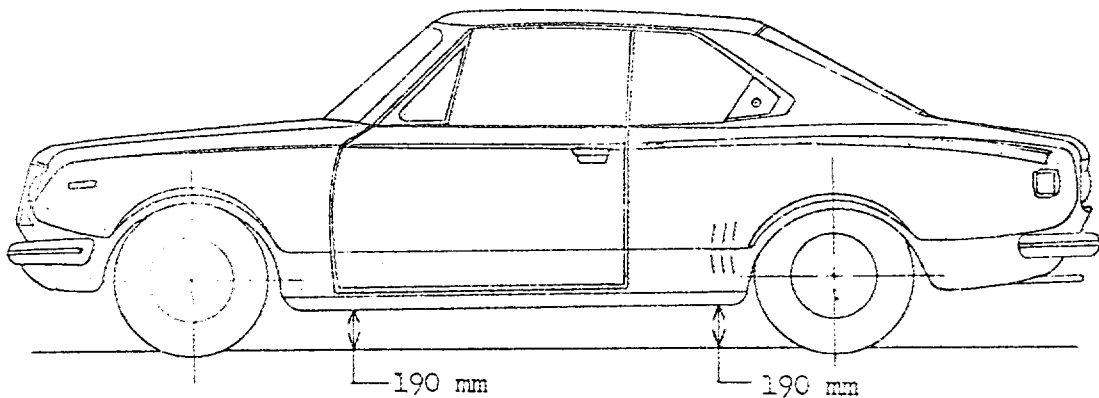
**CAPACITIES AND DIMENSIONS**

1. <u>Wheelbase</u>	2510	mm	98.8	inches
2. <u>Front track</u>	1340	mm	52.8	inches *
3. <u>Rear track</u>	1325	mm	52.2	inches *
4. Overall length of the car	429.5	cm		inches
5. Overall width of the car	160.5	cm		inches
6. Overall height of the car	138.5	cm		inches
7. <u>Capacity of fuel tank</u> (reserve included)		52		litrs
	13.7	Gallon US		Gallon Imp.
8. Seating capacity	5			
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:				
	985	kg	2167	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 litrs
1 foot / pied	-- 30.4794 cm	1 pint (pt)	-- 0.568 litrs
1 square inch / pouce carré	-- 6.452 cm <sup>2</sup>	1 gallon imp.	-- 4.546 litrs
1 cubic inch / pouce cube	-- 16.391 cm <sup>3</sup>	1 gallon US	-- 3.785 litrs
1 pound / livre (lb)	-- 453.593 gr.	1 hundred weight (cwt)	-- 50.802 kg

Make Toyota

Model RT75-M

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**

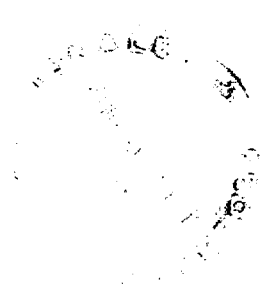
- 38. Interior heating : ~~yes~~ - no
- 39. Air-conditioning : ~~yes~~ - no
- 40. Ventilation : yes - ~~XOR~~
- 41. Front seats, type of seats and upholstery Separate, Vinyl leather
- 42. Weight of front seat (s), complete with supports and rails, out of the car :  
16.1 x 2 kg lbs
- 43. Rear seats, type of seats and upholstery Bench, Vinyl leather
- 44. Front bumper, material (s) Steel Weight 5.9 kg lbs
- 45. Rear bumper, material (s) Steel Weight 5.7 kg lbs

**WHEELS**

- 50. Type Pressed steel
- 51. Weight (per wheel, without tyre) 7.9 kg lbs
- 52. Method of attachment 4 Nuts
- 53. Rim diameter 356 mm 14 inches
- 54. Rim width 127 mm 5 inches

**STEERING**

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



**SUSPENSION**

- 70. Front suspension (photogr. D), type Independent, Wishbones
- 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, With torque rod
- 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 Vacuum servo
- 92. Number of hydraulic master cylinders 2 (tandem)

	FRONT			REAR		
93. Number of cylinders per wheel	2			1		
94. Bore of wheel cylinder (s)	53.98	mm	in.	20.64	mm	in.
<b>Drum brakes</b>						
95. Inside diameter		mm	in.	228.6	mm	in.
96. Length of brake linings		mm	in.	243	mm	in.
97. Width of brake linings		mm	in.	40	mm	in.
98. Number of shoes per brake					2	
99. Total area per brake		mm <sup>2</sup>	sq. in.	194x10 <sup>2</sup>	mm <sup>2</sup>	sq. in.
<b>Disc brakes</b>						
100. Outside diameter	258	mm	in.		mm	in.
101. Thickness of disc	10	mm	in.		mm	in.
102. Length of brake linings	50	mm	in.		mm	in.
103. Width of brake linings	67	mm	in.		mm	in.
104. Number of pads per brake	2					
105. Total area per brake	67x10 <sup>2</sup>	mm <sup>2</sup>	sq. in.		mm <sup>2</sup>	sq. in.

Make Toyota

Model RT75-M

F. I. A. Rec. No.

**ENGINE** (photographs J and K)

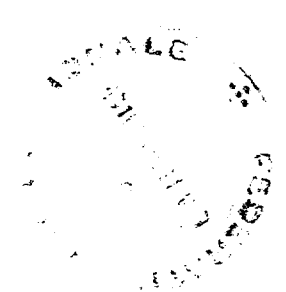
130. Cycle	4	131. Number of cylinders	4
132. Cylinder arrangement	In line		
133. <u>Bore</u>	86 mm	134. <u>Stroke</u>	80 mm
	3.38 in.		3.15 in.
135. <u>Capacity per cylinder</u>	464.5	cm <sup>3</sup>	28.3 cu. in.
136. <u>Total cylinder-capacity</u>	1858	cm <sup>3</sup>	113.3 cu. in.
137. Material (s) of cylinder block	Cast iron		
138. Material (s) of sleeves (if fitted)			
139. Cylinder-head, material (s)	Aluminum-Alloy	Number fitted	1
140. Number of inlet ports	4	141. Number of exhaust ports	4
142. Compression ratio	9.7		
143. Volume of one combustion chamber	53.5	cm <sup>3</sup>	cu. in.
144. Piston, material	Aluminum-Alloy	145. Number of rings	3
146. Distance from gudgeon pin centre line to highest point of piston crown	47.55 mm	inches	
147. Crankshaft : <del>round</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>yes</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	6		

**Bearings**

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

**Weights**

160. Flywheel (clean)	7.7	kg	lbs
161. Flywheel with clutch (all turning parts)	14.0	kg	lbs
162. Crankshaft	17.7	kg	lbs
163. Connecting rod	0.78	kg	lbs
164. Piston with rings and pin	0.64	kg	lbs



Make Toyota

Model RT75-M

F.I.A. Rec. No.

**FOUR STROKE ENGINES**

170. Number of camshafts 2 171. Location Cylinder head  
172. Type of camshaft drive Chain  
173. Type of valve operation Direct

**INLET** (see page 8) \*

180. Material(s) of inlet manifold Aluminum-Alloy  
181. Diameter of valves 45 mm 1.77 inches  
182. Max. valve lift 10 mm 0.39 in. 183. Number of valve springs 1  
184. Type of spring Coil 185. Number of valves per cylinder 1  
186. Tappet clearance for checking timing (cold) 0.29 mm inches  
187. Valves open at (with tolerance for tappet clearance indicated) B.T.D.C.  $18^{\circ} \pm 10^{\circ}$   
188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C.  $58^{\circ} \pm 10^{\circ}$   
189. Air filter, type Dry

**EXHAUST** (see page 8)

195. Material(s) of exhaust manifold Cast iron  
196. Diameter of valves 37 mm 1.46 inches  
197. Max. valve lift 10 mm 0.39 in. 198. Number of valve springs 1  
199. Type of spring Coil 200. Number of valves per cylinder 1  
201. Tappet clearance for checking timing (cold) 0.34 mm inches  
202. Valves open at (with tolerance for tappet clearance indicated) B.B.D.C.  $58^{\circ} \pm 10^{\circ}$   
203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C.  $18^{\circ} \pm 10^{\circ}$

**CARBURETION** (photograph N)

210. Number of carburetors fitted 2 211. Type Side draught  
212. Make Mikuni 213. Model 10R  
214. Number of mixture passages per carburetor 2  
215. Flange hole diameter of exit port(s) of carburetor 40 mm in.  
216. Minimum dimensions of mixture passage(s) ~~XXXXXX~~  
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. 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.



Make Toyota

Model RT75-M

F. I. A. Rec. No.

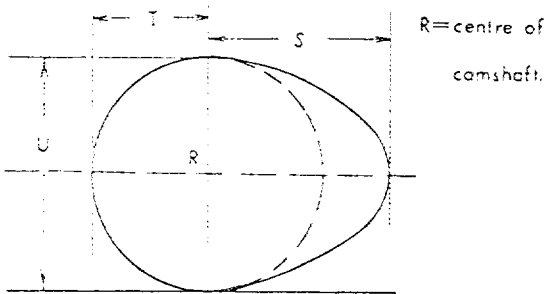
**ENGINE ACCESSORIES**

- |  |                                      |             |
|--|--------------------------------------|-------------|
| 230. Fuel pump : mechanical <del>and electric</del>  | 231. No. fitted                      | 1           |
| 232. Type of ignition system                         | 233. No. of distributors             | 1           |
| 234. No. of ignition coils                           | 235. No. of spark plugs per cylinder | 1           |
| 236. Generator, type dynamo/alternator-number fitted | 237. Method of drive                 | V belt      |
| 238. Voltage of generator                            | 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       | 140 PS (type of horsepower: JIS ) at | 6400 rpm     |
| 251. Maximum rpm              | 6800 output at that figure           | 137 PS       |
| 252. Maximum torque           | 17.0 kg-m at 5200 rpm                |              |
| 253. Maximum speed of the car | 200 km/hour                          | miles / hour |

255.



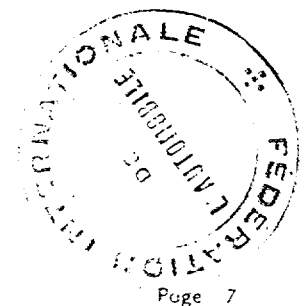
R=centre of camshaft.

Inlet cam

- |     |      |    |       |        |
|-----|------|----|-------|--------|
| S = | 27.9 | mm | 1.099 | inches |
| T = | 17.5 | mm | 0.670 | inches |
| U = | 35.2 | mm | 1.387 | inches |

Exhaust cam

- |     |      |    |       |        |
|-----|------|----|-------|--------|
| S = | 27.9 | mm | 1.099 | inches |
| T = | 17.5 | mm | 0.670 | inches |
| U = | 35.2 | mm | 1.387 | inches |

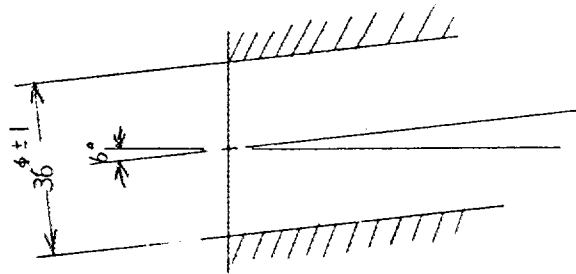


Make Toyota

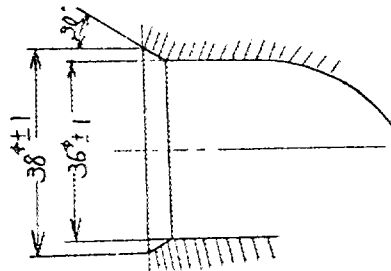
Model RT75-M

F. I. A. Rec. No.

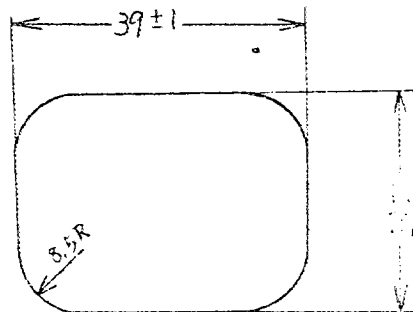
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



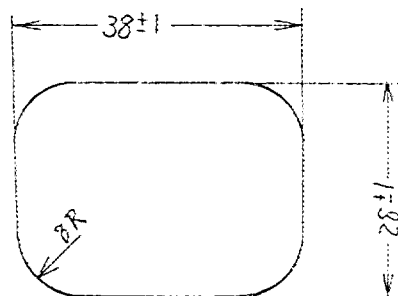
Drawing of entrance to inlet part of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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



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



Unite : mm



Make Toyota

Model RT75-M

F.I.A. Rec. No.

**DRIVE TRAIN**

**CLUTCH**

260. Type of clutch Dry single plate 261. No. of plates 1

262. Dia. of clutch plates 22.8 cm inches

263. Dia. of linings, inside 16.0 cm in. outside 22.4 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 5 272. Synchronized forward ratios 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			Automatic			Alternative manual/ <del>Automatic</del>		
	Ratio	No.	teeth	Ratio	No.	teeth	Ratio	No.	teeth
1	3.074	$\frac{30}{23}$	$\times \frac{35}{14}$				2.302	$\frac{30}{23}$	$\times \frac{30}{17}$
2	1.838	$\frac{30}{23}$	$\times \frac{31}{22}$				1.601	$\frac{30}{23}$	$\times \frac{27}{22}$
3	1.256	$\frac{30}{23}$	$\times \frac{26}{27}$				1.256	$\frac{30}{23}$	$\times \frac{26}{27}$
4	1.000						1.000		
5	0.856	$\frac{30}{23}$	$\times \frac{21}{32}$				0.856	$\frac{30}{23}$	$\times \frac{21}{32}$
6									
reverse	3.168	$\frac{30}{23}$	$\times \frac{34}{14}$				3.168	$\frac{30}{23}$	$\times \frac{34}{14}$

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 3.9, 4.111, 4.375, 4.625, 4.875, 5.286

Number of teeth 39/10, 37/9, 35/8, 31/8, 39/8, 37/7

Make Toyota

Model COROLLA

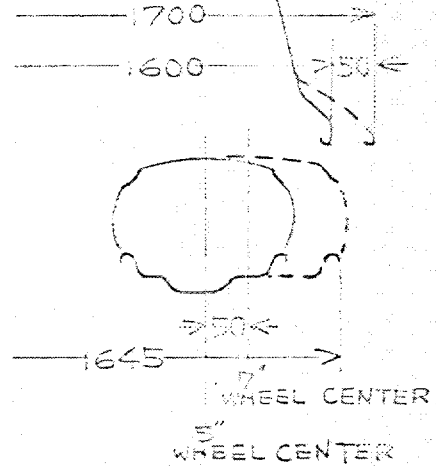
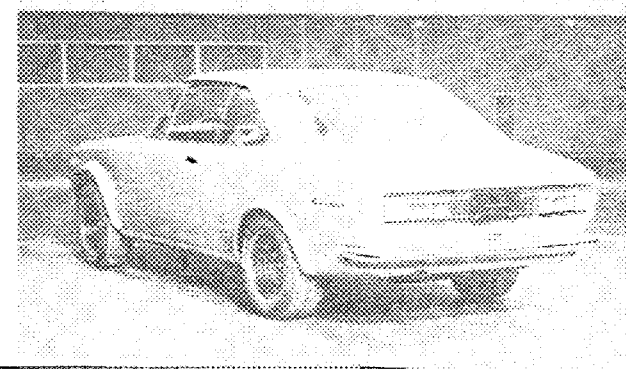
F.I.A. Ref. 100

IMPORTANT: The conformity of the car with the following items of the present recognition form is to be designated during the screening: when the vehicle has been entered in group 2 (Heavy 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, 263, 212, 213, 215, 216, 270, 275, 290, 250, 251, 252, 259, and photographs I, M, N and page 6

During the screening of cars entered in group 4 (Sports cars) 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, 120, 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, 27A, 27B, 290, 291, 292 and photographs A, B, D, E, F, G, H, J, K, and O.

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

Fuel tank 100 L  
Over Fender



Wheels

Material	Weight	Rim dia	Rim width
Pressed steel	8.9 Kg	14 inches	6 inches
Pressed steel	9.9	14	7
Magnesium alloy	4.5	14	7

Steering

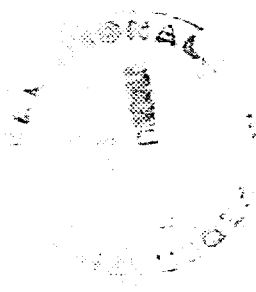
Number of turns  $3\frac{1}{3} \pm 0.25$

Brakes

Bore of cylinder Rear 19.05 mm

Parking brake lever

Another type equipped with other models (Corolla etc.) as standard is available as optional.



Make Toyota

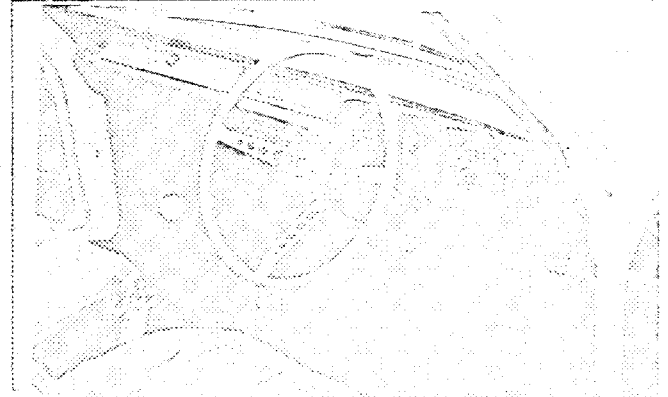
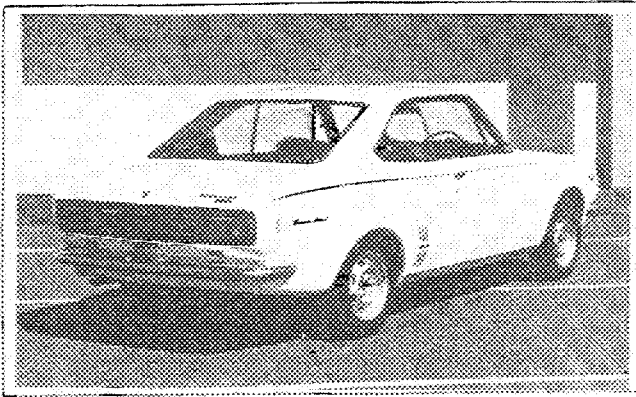
Model RT75-M

F. I. A. Rec. No

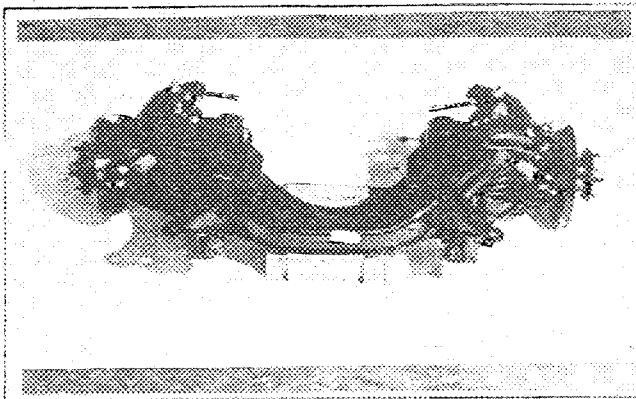
Photograph

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

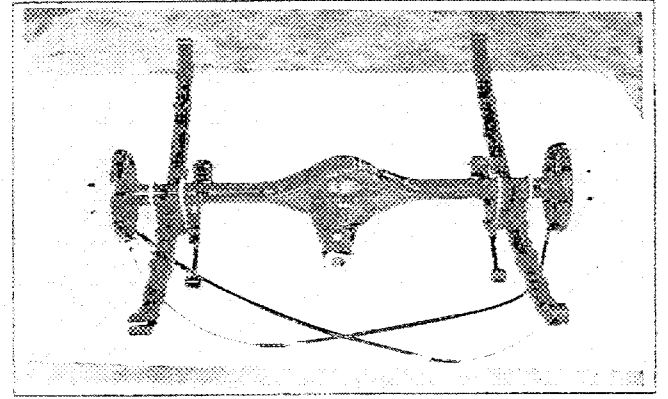
B. 3/4 view of car from rear



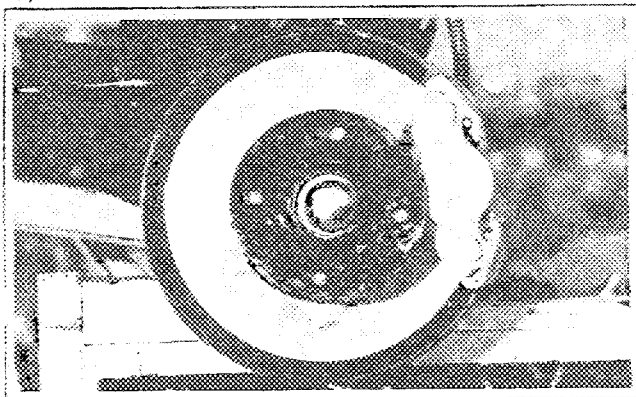
D. front axle complete, removed from car. Without wheels



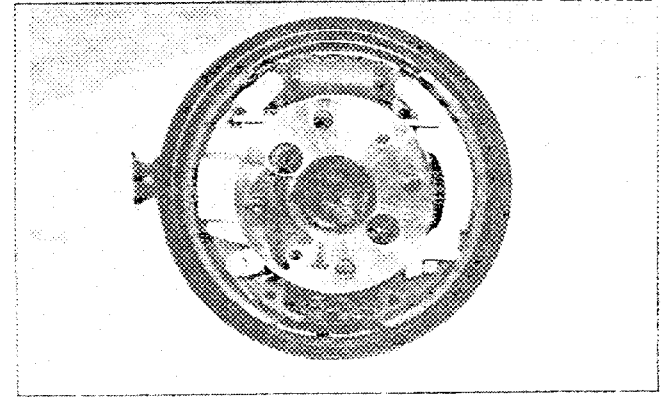
E. Rear axle complete without wheels, removed from car.



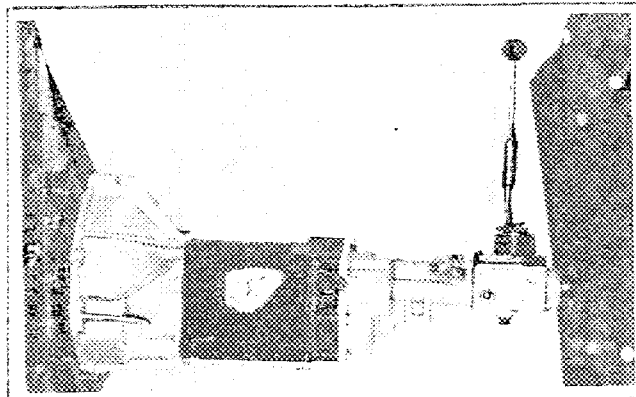
F. front brake, drum removed or disc with calipers



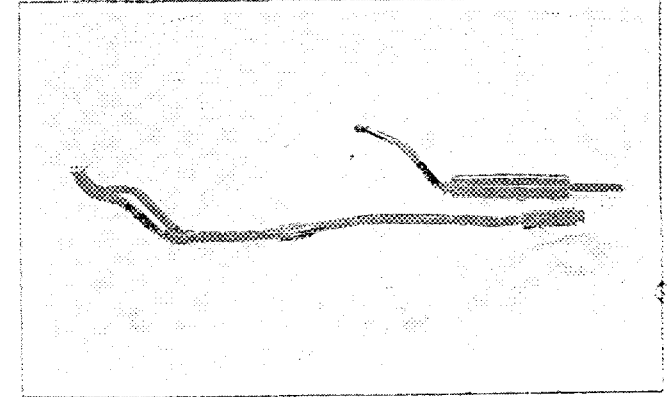
G. rear brake, drum removed or disc with calipers



H. gear-box, view from side



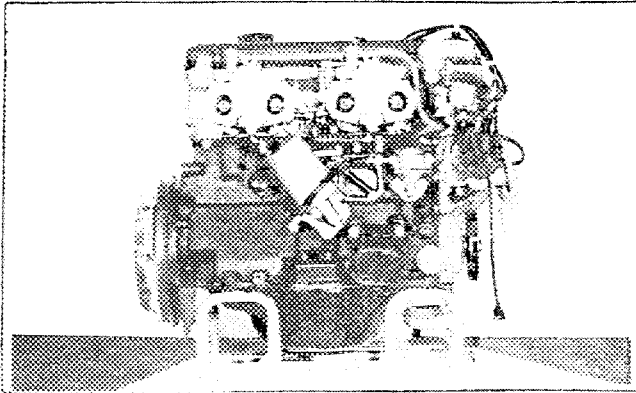
I. silencer in exhaust pipes after exhaust manifold



RECEIVED  
FBI  
MAY 19 1971

Make Toyota

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

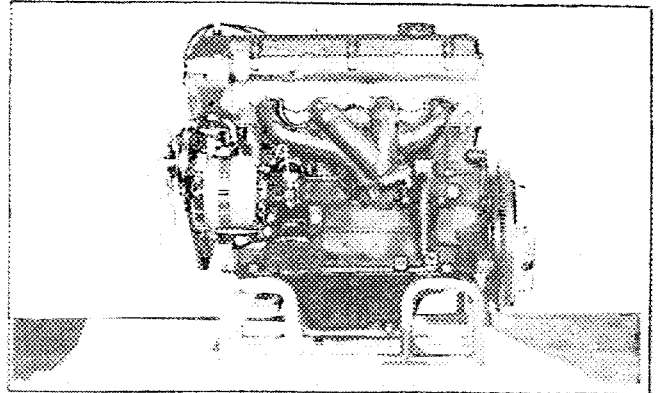


Model RT75-M

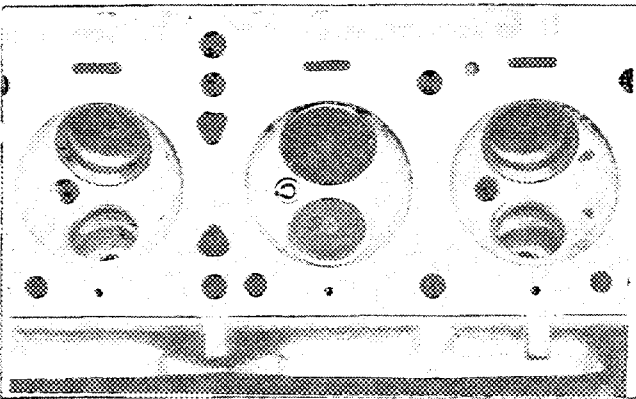
F. I. A. Rec. No

Photograph

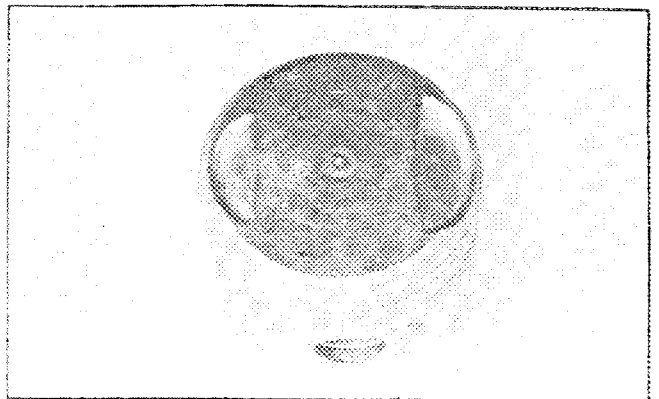
Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



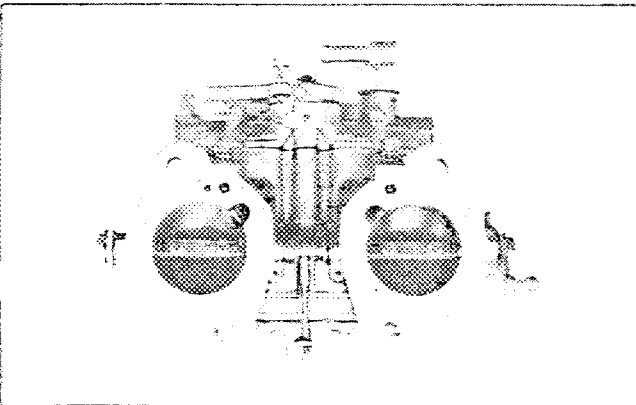
L, combustion chamber



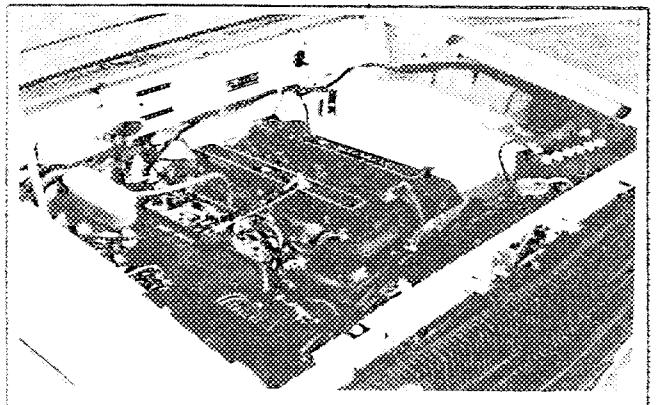
M, piston crown



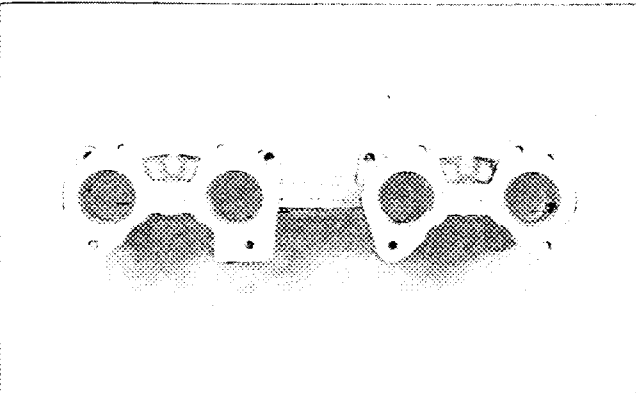
N, Carburettor (view from side of manifold)



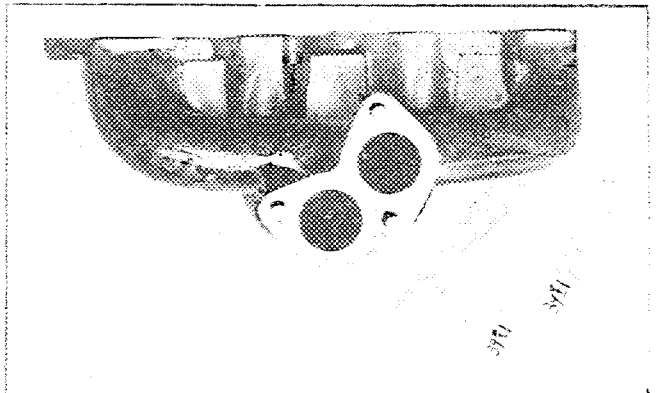
O, engine in car with all accessories, bonnet open or removed.



P, inlet manifold



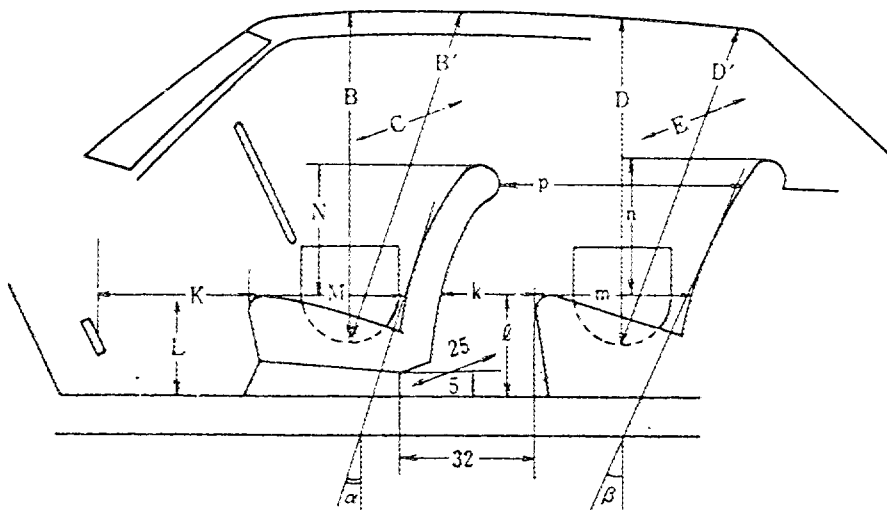
Q, exhaust manifold



### DIMENSIONS OF INTERIOR

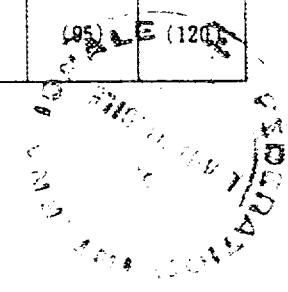
(Conform to Art. 253 b of Appendix J)

For four seaters :



Minimum Dimensions (cm)							
B	B'	$\alpha$	C	D	D'	$\beta$	E
94	99.5	23°	132	93	90	23°	128

Minimum Dimensions (cm)										
L	$\ell$	M	m	N	n	k+m	p	k	k+ $\ell$ +m	K+L+M
31	31.5	50	44.5	46.5	43	73	75	28.5	104.5	120.5
0.9L = 27.9		0.85M = 42.5		0.8N = 37.2		0.8(k+m) = 58.4		(15)	(95)	(120)



Make Toyota  
TWO STROKE ENGINES

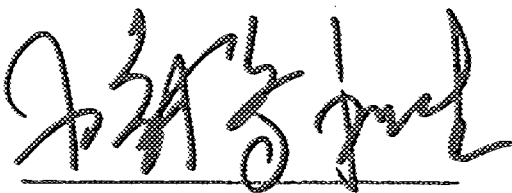
Model RT75-M

F. I. A. Rec. No.

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<sup>2</sup> sq. in.
305. Exhaust ports, length measured around cylinder wall mm inches
306. Height exhaust port mm in. 307. Area mm<sup>2</sup> sq. in.
308. Transfer port, length measured around cylinder wall mm inches
309. Height transfer port mm in. 310. Area mm<sup>2</sup> sq. in.
311. Piston ports, length measured around piston mm inches
312. Height piston port mm in. 313. Area mm<sup>2</sup> 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

