



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No.
Group 1

5321

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 RT70-100001

engine 7R 100001

Recognition is valid from 11/170

Cylinder-capacity 1591 cm³ 97.05 cu. in.

Model Corona Mark II Hardtop SL.

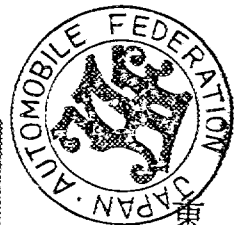
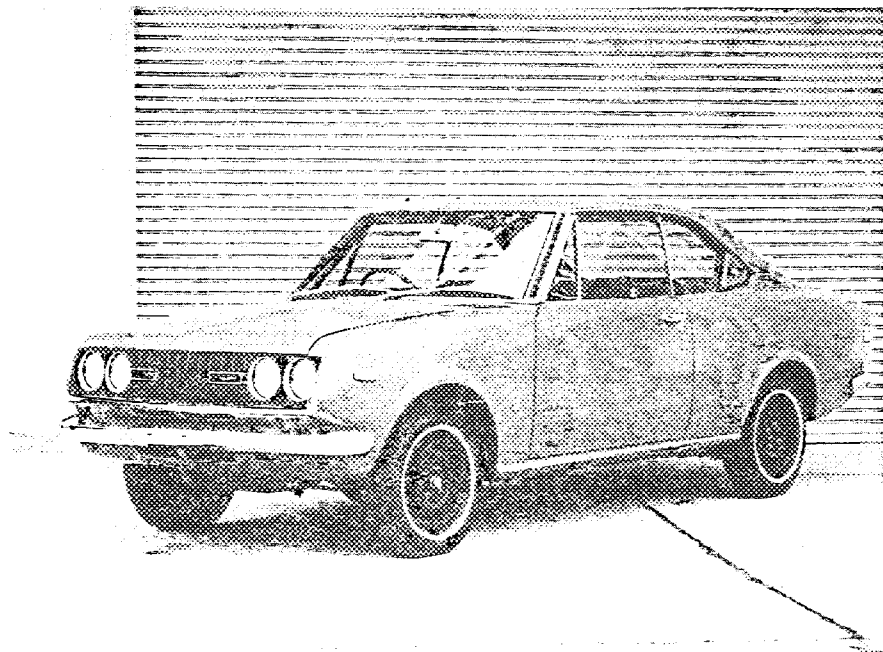
Manufacturer Toyota Motor Co., RT70-S

Manufacturer " Ltd.

List 70/1

The manufacturing of the model described in this recognition form was started on April 1969 and the minimum production of 5000 identical cars, in accordance with the specifications of this form was reached on August 1969

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 日本自動車連盟

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

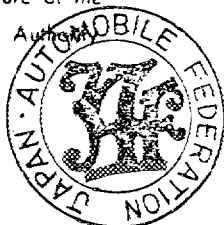
Variants

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

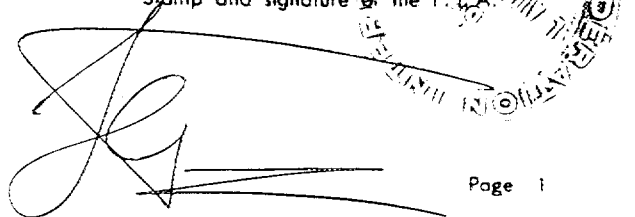
Normal evolution of the type

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.



Make Toyota

Model RT70-S

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 table hereafter.

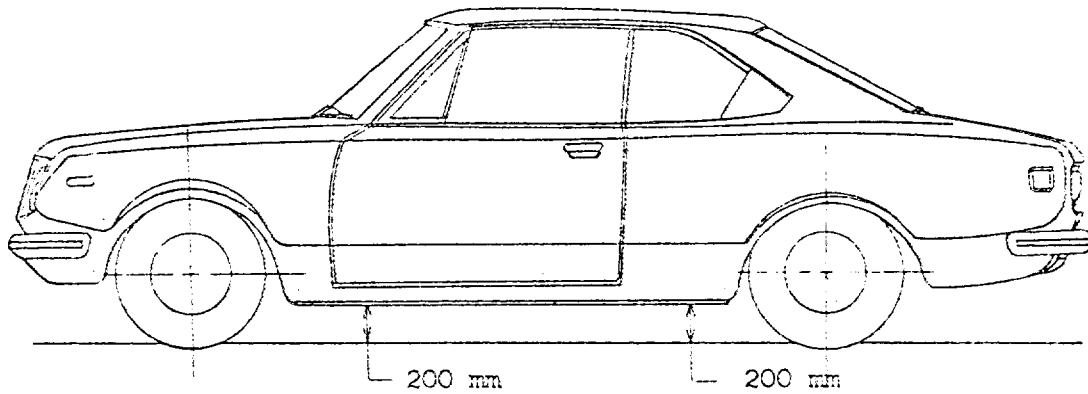
CAPACITIES AND DIMENSIONS

Wheelbase	2510	mm	98.8	inches
2 Front track	1325	mm	52.2	inches *
3 Rear track	1320	mm	52.0	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	139.5	cm		inches
7 Capacity of fuel tank (reserve included)	52			Ltrs
	13.7	Gallon US		Gallon Imp
8 Seating capacity				
9 <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools	930	kg	2046	lbs

Differences in track caused by the use of other wheels with different rim widths must be stated when recognition is given to the wheels concerned.

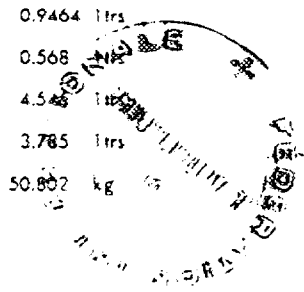
Specify ground clearance in relation to the track and give drawing of two fixed points of the vehicle's structure at which measurements are taken.

These ground clearance dimensions are only for information when checking the track and can in no way affect the engineering 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



Make Toyota

Model RT70-S

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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 : ~~XXXX~~ - no
39. Air-conditioning : ~~XXXX~~ - no
40. Ventilation : yes - ~~XX~~
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 :
17 kg 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) 6 kg lbs
52. Method of attachment 4 Nuts
53. Rim diameter 330.2 mm 13 inches
54. Rim width 114.3 mm 4.5 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, 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
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	
Bore of wheel cylinder (s)	48.1 mm	in.	20.64 mm	in.
Drum brakes				
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 ²	sq. in.	194 x 10 ² mm ²	sq. in.
Disc brakes				
100. Outside diameter	244 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			
Total area per brake	56 x 10 ² mm ²	sq. in.	mm ²	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 ³
			24.2 cu. in.
136. Total cylinder-capacity	1591		cm ³
			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 ³
			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	39.8 mm		
			inches
147. Crankshaft : moulded / stamped		148. Type of crankshaft : integral / XXXX	
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	4.1		litrs
			pts
153. Oil cooler : yes / no		154. Method of engine cooling	Water
155. Capacity of cooling system	7.4		litrs
			pints
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)	10.6	kg	lbs
161. Flywheel with clutch (all turning parts)	16.6	kg	lbs
162. Crankshaft	15	kg	lbs
163. Connecting rod	0.84	kg	lbs
164. Piston with rings and pin	0.55	kg	lbs



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 8) *

180. Material(s) of inlet manifold Aluminum-Alloy
 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) 0.15 mm inches
 187. Valves open at (with tolerance for tappet clearance indicated) B.T.D.C $15^{\circ} \pm 7^{\circ}$
 188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C $45^{\circ} \pm 7^{\circ}$
 189. Air filter, type Dry

EXHAUST (see page 8)

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) 0.30 mm inches
 202. Valves open at (with tolerance for tappet clearance indicated) B.B.D.C $50^{\circ} \pm 7^{\circ}$
 203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C $10^{\circ} \pm 7^{\circ}$

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 carburetor 1
 215. Flange hole 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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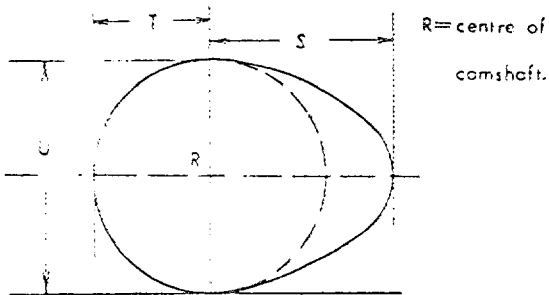
ENGINE ACCESSORIES

- 230. Fuel pump : mechanical ~~xxxxxxx~~
- 231. No. fitted 1
- 232. Type of ignition system Make & break
- 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 100 PS (type of horsepower JIS) at 6200 rpm
- 251. Maximum rpm 6500 output at this 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.



R=centre of camshaft.

Inlet cam

S =	26.1	mm	1.028	inches
T =	18.0	mm	0.709	inches
U =	36.0	mm	1.417	inches

Exhaust cam

S =	26.2	mm	1.032	inches
T =	18.0	mm	0.709	inches
U =	36.1	mm	1.421	inches

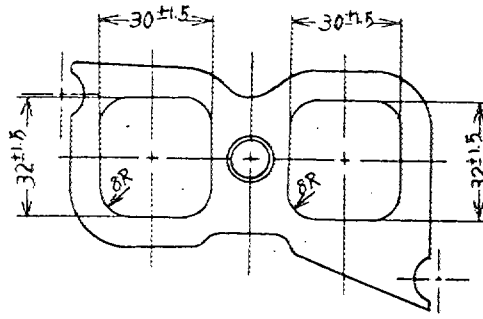


Make Toyota

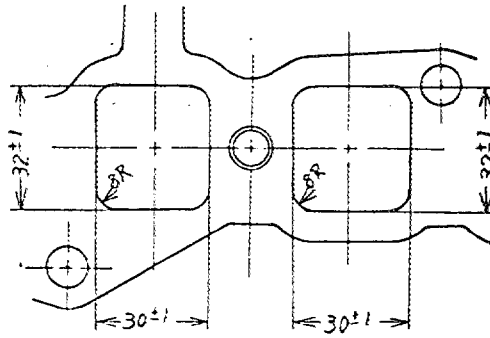
Model RT70-S

F I A Rec No

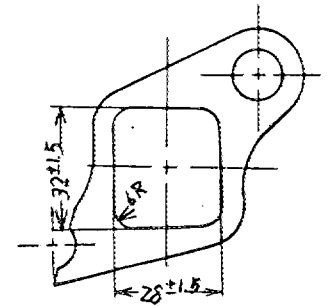
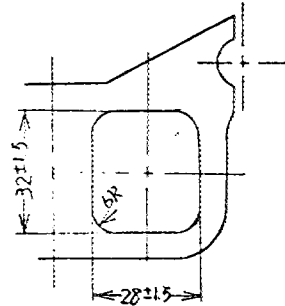
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



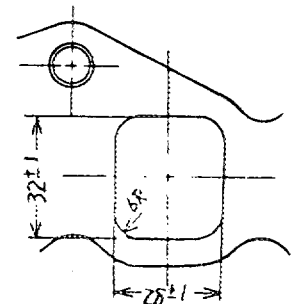
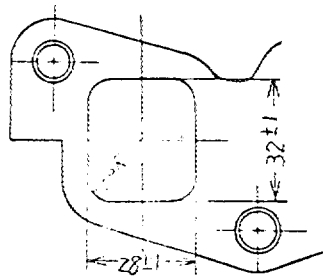
Drawing of entrance to inlet part of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



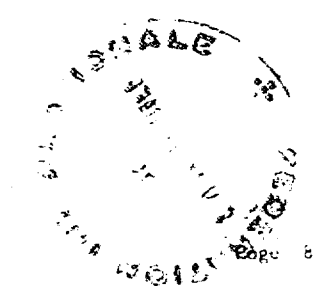
Drawing exhaust manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



Drawing of exit 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/ XXXXXX		
	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	$\frac{31}{18}$	$\times \frac{34}{14}$

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)
 293. Final drive ratio 3.70, 3.90, 4.111, 4.375
 Number of teeth 37/10, 39/10, 37/9, 35/8



Make Toyota

Model RT70-S

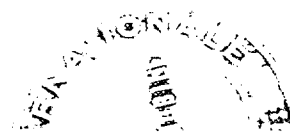
F.I.A. Rec. No

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, N, and page 8

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.

*293 - GR II
3,90 (39/10)
4,375 (35/8)



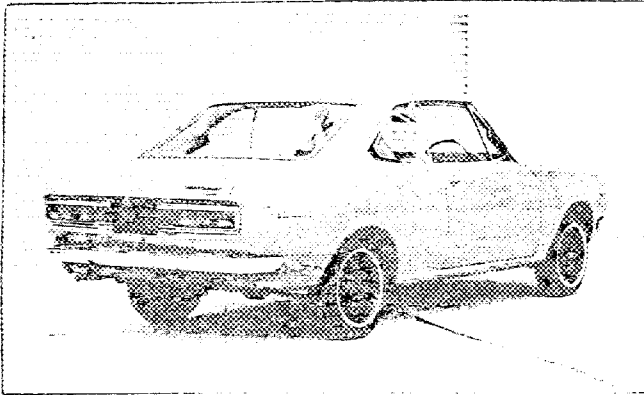
Make Toyota

Model RT70-S

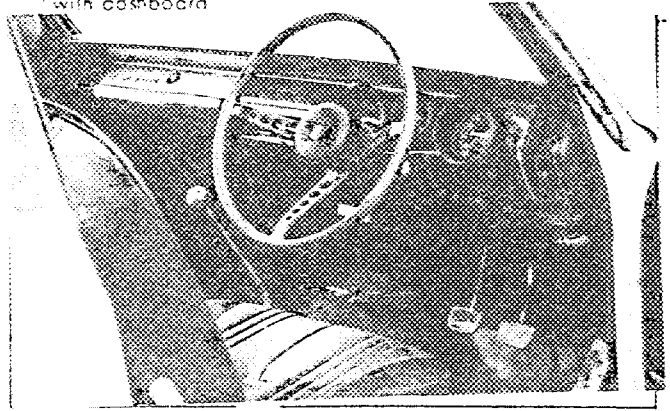
F. I. A. Rec. No.

Photograph

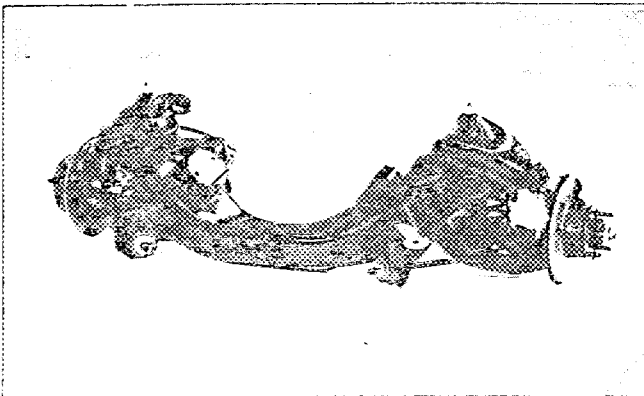
B. 3/4 view of car from rear



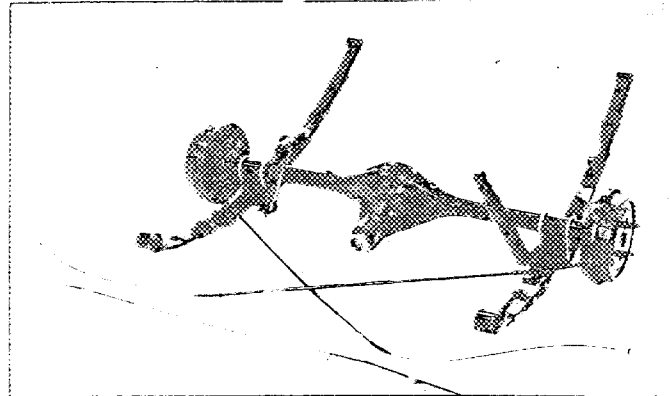
C. Interior view of car through driver's door (open or removed) with dashboard



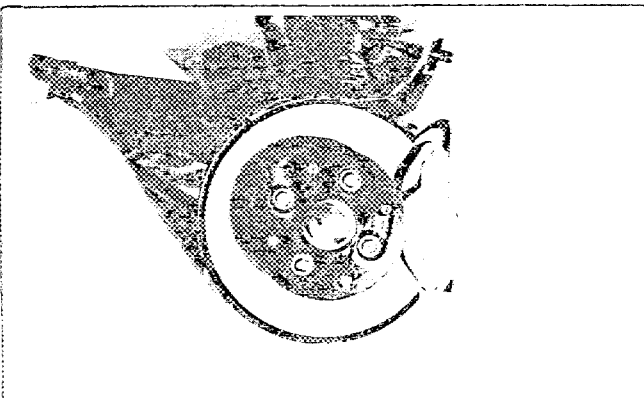
D. front axle complete, removed from car. Without wheels.



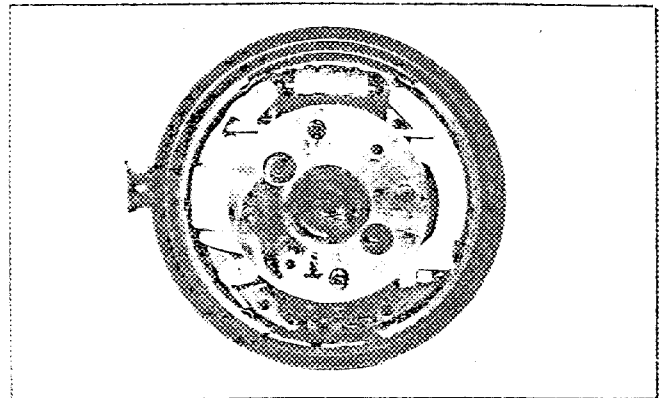
E. Rear axle complete w out wheels, removed from car.



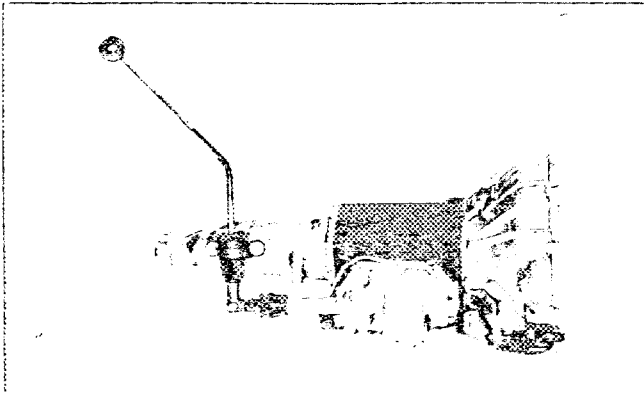
F. front brake, drum removed or disc with calipers



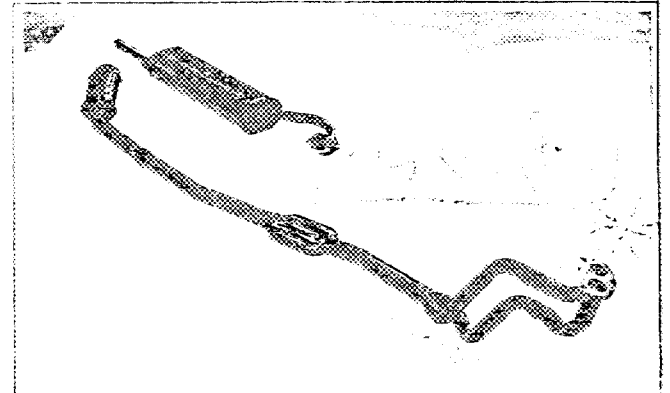
G. rear brake, drum removed or disc with calipers



H. gear-box, view from side

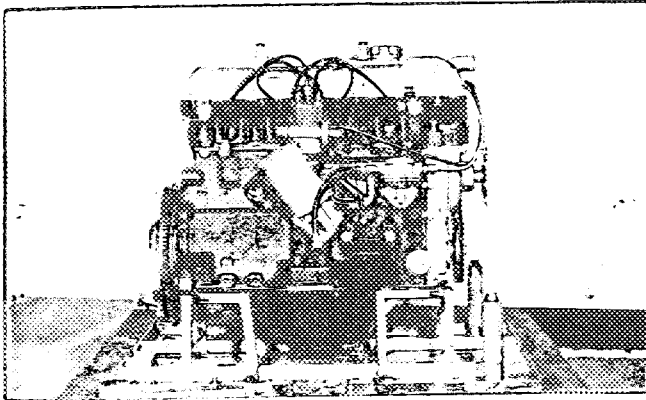


I. cylinder + exhaust pipes after exhaust manifold.

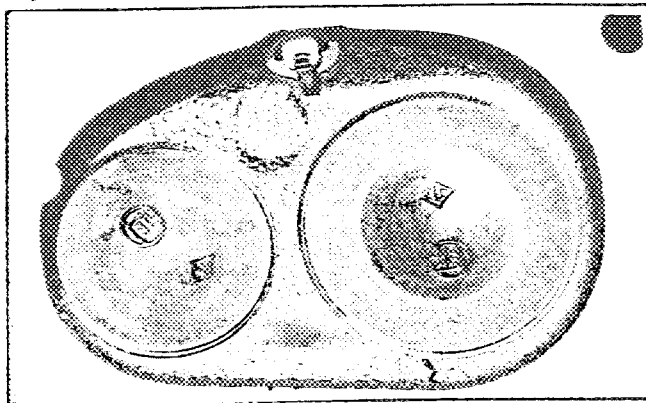


Make Toyota

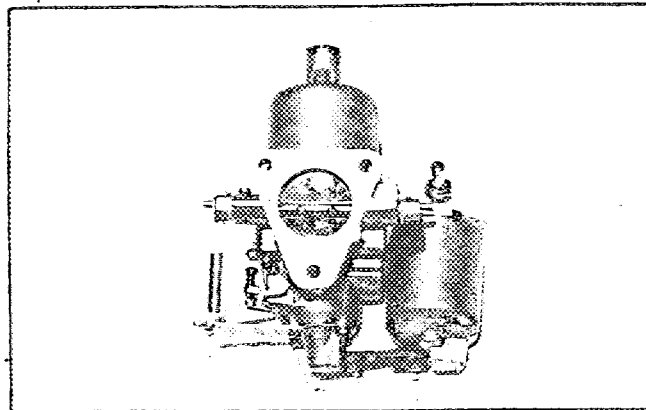
Engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.



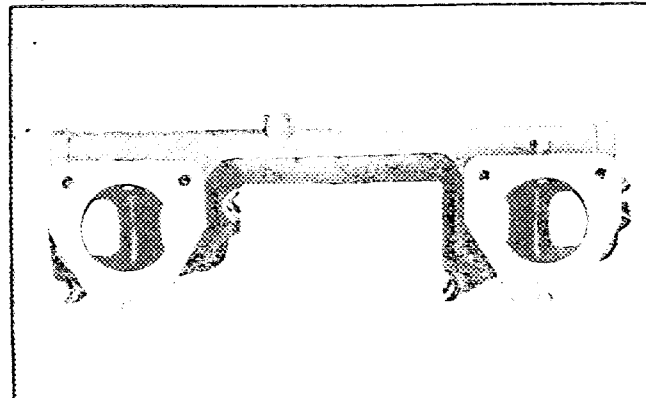
L, combustion chamber



M, Carburettor (view from side of manifold)



P, inlet manifold

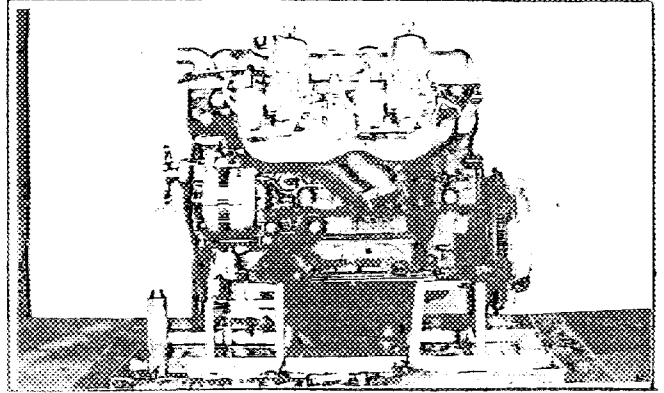


Model RT70-S

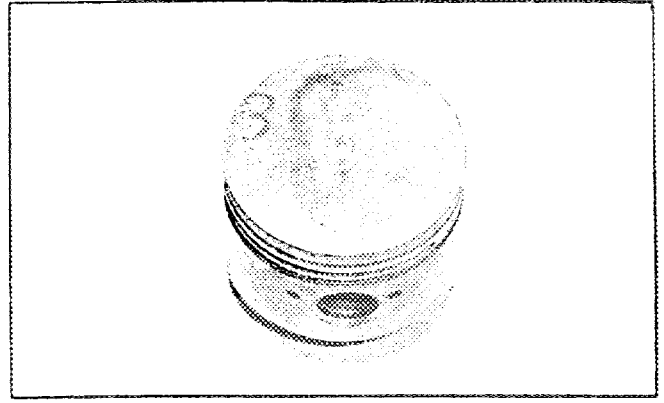
F.I.A. Rec. No

Photograph

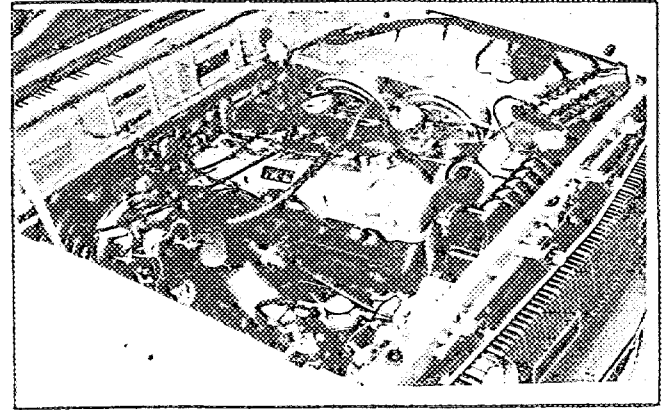
Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



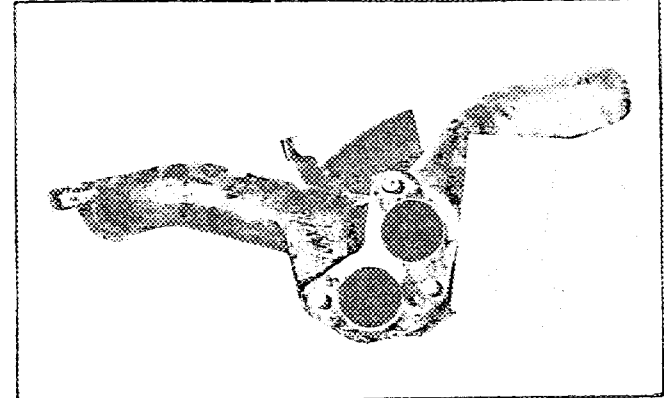
N, piston crown



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

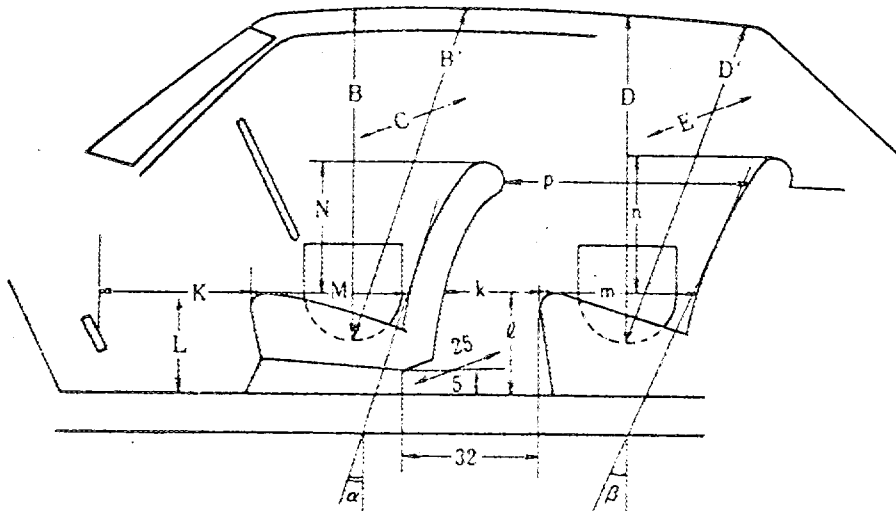


Q, exhaust manifold



DIMENSIONS OF INTERIOR
(Conform to Art. 253 b of Appendix J)

For four seaters :



Minimum Dimensions (cm)							
B	B'	α	C	D	D'	β	E
91	98	15°	133.5	92	89	23°	128

Minimum Dimensions (cm)										
L	ℓ	M	m	N	n	k+m	p	k	k+l+m	K+l+m
31	31.5	50	45.5	45.5	42.5	70	83	23	100	120.5
0.9L = 27.9		0.85M = 42.5		0.8N = 36.4		0.8(k+m) = 56		(15)	(95)	(128)



Make Toyota

Model RT70-S

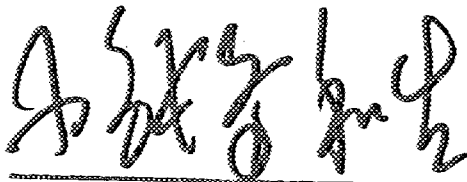
F. I. A. Rec. No.

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 mm² sq. in.
305. Exhaust ports, length measured around cylinder wall mm inches
306. Height exhaust port mm in. 307. Area mm² sq. in.
308. Transfer port, length measured around cylinder wall mm inches
309. Height transfer port mm in. 310. Area mm² sq. in.
311. Piston ports, length measured around piston mm inches
312. Height piston port mm in. 313. Area mm² 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

