

Make Toyota

Model KE 15

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.

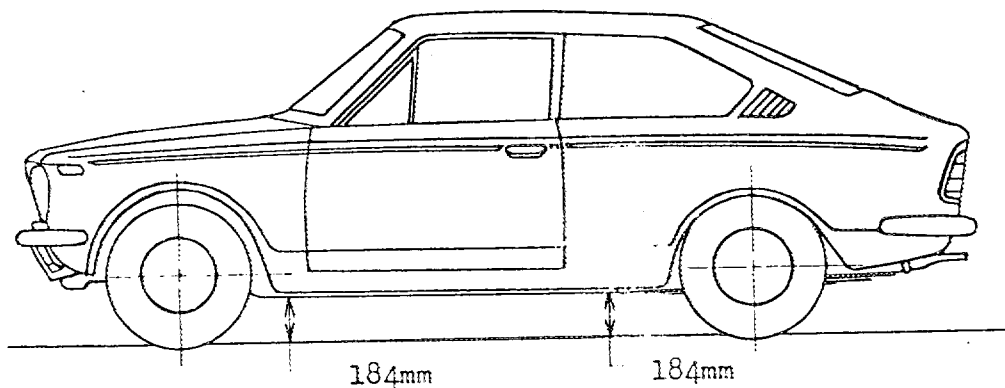
CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2,285 mm	90.0 inches
2. <u>Front track</u>	1,230 mm	48.4 inches *
3. <u>Rear track</u>	1,220 mm	48.0 inches *
4. Overall length of the car	384.5 cm	inches
5. Overall width of the car	148.5 cm	inches
6. Overall height of the car	134.5 cm	inches
7. <u>Capacity of fuel tank</u> (reserve included)		36 ltrs
	9.5 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:		
	685 kg	1,375 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	1 hundred weight (cwt)	-- 50.802 kg

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CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction : ~~XXXX~~ / 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 : ~~XXXX~~ - no
40. Ventilation : yes - ~~XXX~~
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 :
10.7 x 2 kg lbs
43. Rear seats, type of seats and upholstery Bench, Vinyl leather
44. Front bumper, material (s) Steel Weight 2.3 kg lbs
45. Rear bumper, material (s) Steel Weight 3.3 kg lbs

WHEELS

50. Type Pressed Steel
51. Weight (per wheel, without tyre) 5.0 kg lbs
52. Method of attachment 4 Nuts
53. Rim diameter 305 mm 12 inches
54. Rim width 102 mm 4 inches

STEERING

60. Type Worm & sector roller
61. Servo-assistance : ~~XXXX~~ - no
62. Number of turns of steering wheel from lock to lock 3
63. In case of servo-assistance

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SUSPENSION

- 70. Front suspension (photogr. D), type Independent, Macpherson
- 71. Type of spring Coil & Transverse leaf
- 72. Stabiliser (if fitted)
- 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	3/4 in.	mm	11/16 in.

Drum brakes

95. Inside diameter	200	mm	in.	200	mm	in.
96. Length of brake linings	192	mm	in.	192	mm	in.
97. Width of brake linings	35	mm	in.	30	mm	in.
98. Number of shoes per brake	2		2			
99. Total area per brake	134.4 x 10 ²	mm ²	sq. in.	115.2 x 10 ²	mm ²	sq. in.

Disc brakes

100. Outside diameter	mm	in.	mm	in.
101. Thickness of disc	mm	in.	mm	in.
102. Length of brake linings	mm	in.	mm	in.
103. Width of brake linings	mm	in.	mm	in.
104. Number of pads per brake				
105. Total area per brake	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	75 mm	134. Stroke	61 mm
	2.95 in.		2.40 in.
135. Capacity per cylinder		269 cm ³	16.5 cu. in.
136. Total cylinder-capacity		1,077 cm ³	65.8 cu. in.
137. Material (s) of cylinder block	Cast iron		
138. Material (s) of sleeves (if fitted)			
139. Cylinder-head, material (s)	Al-cast	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	33.7	cm ³	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	36 mm	inches	
147. Crankshaft : moulded / XXXXXX		148. Type of crankshaft : integral / XXXXXX	
149. Number of crankshaft main bearings	5		
150. Material of bearing cap	Cast iron		
151. System of lubrication : XXXXXX / oil in sump			
152. Capacity, lubricant	3.5 ltrs	pts	quarts US
153. Oil cooler : YES / no		154. Method of engine cooling	Water
155. Capacity of cooling system	4.7 ltrs	pints	quarts US
156. Cooling fan (if fitted), dia.	31 cm	inches	
157. Number of blades of cooling fan	2		

Bearings

158. Crankshaft main, type	Plain	Dia.	50 mm	in.
159. Connecting rod big end,	Plain	Dia.	42 mm	in.

Weights

160. Flywheel (clean)	6.8 kg	lbs
161. Flywheel with clutch (all turning parts)	10.0 kg	lbs
162. Crankshaft	8.8 kg	lbs
163. Connecting rod	0.3 kg	lbs
164. Piston with rings and pin	0.4 kg	lbs

FOUR STROKE ENGINES

170. Number of camshafts 1 171. Location Cylinder Block
 172. Type of camshaft drive Chain
 173. Type of valve operation Push rod & rocker

INLET (see page 8) *

180. Material(s) of inlet manifold Al-cast
 181. Diameter of valves 34 mm 1.34 inches
 182. Max. valve lift 8.8 mm 0.35 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) 0.08 mm inches
 187. Valves open at (with tolerance for tappet clearance indicated) B.T.D.C. $16 \pm 7^\circ$
 188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C. $50 \pm 7^\circ$
 189. Air filter, type Dry

EXHAUST (see page 8)

195. Material (s) of exhaust manifold Cast iron
 196. Diameter of valves 28 mm 1.10 inches
 197. Max. valve lift 8.4 mm 0.33 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) 0.18 mm inches
 202. Valves open at (with tolerance for tappet clearance indicated) B.B.D.C. $50 \pm 7^\circ$
 203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C. $16 \pm 7^\circ$

CARBURETION (photograph N)

210. Number of carburetors fitted 1 211. Type Down draught
 212. Make Aisan 213. Model K
 214. Number of mixture passages per carburetor 2
 215. Flange hold diameter of exit port(s) of carburetor 28 & 28 mm in.
 216. Minimum dimensions of mixture passage(s) ~~21 & 24 mm~~ 21 & 24 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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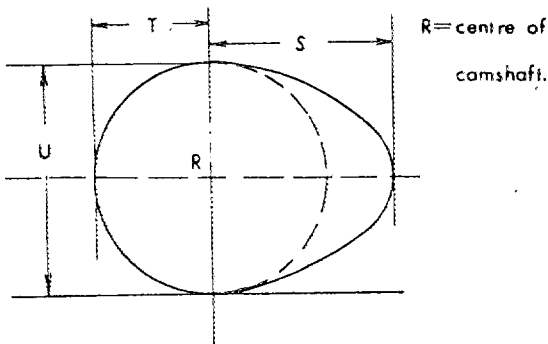
ENGINE ACCESSORIES

230. Fuel pump : mechanical and electric	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: dyno 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 60 PS (type of horsepower: JIS) at 6,000 rpm
251. Maximum rpm 6,500 output at that figure 58 PS
252. Maximum torque 8.5 kg-m at 3,800 rpm
253. Maximum speed of the car 140 km/hour miles / hour

255.



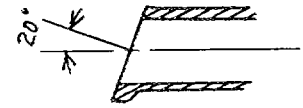
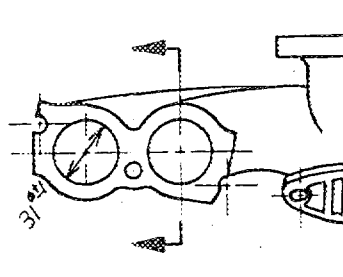
Inlet cam

S =	21.1	mm	0.831	inches
T =	15.4	mm	0.606	inches
U =	30.8	mm	1.213	inches

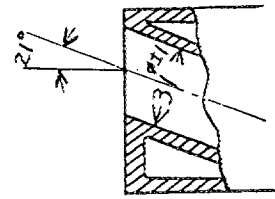
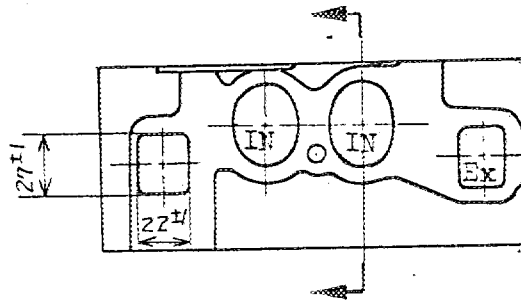
Exhaust cam

S =	21.2	mm	0.835	inches
T =	15.2	mm	0.598	inches
U =	30.4	mm	1.197	inches

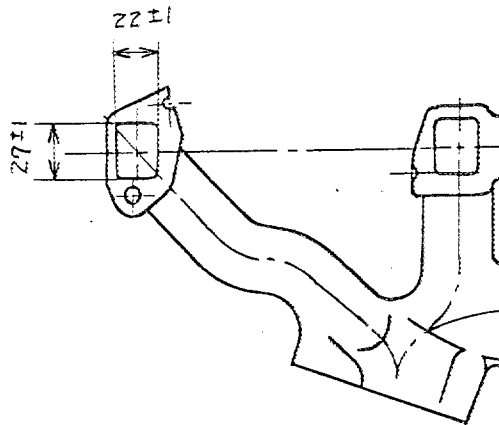
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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 18.3 cm inches
- 263. Dia. of linings, inside 12.5 cm in. outside 18.0 cm in.
- 264. Method of operating clutch Mechanical

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 or column
- 274. Automatic, make Toyota type Torque converter
- 275. No. of forward ratios 2 276. Location of gear-shift Floor

277.	Manual			Automatic			Alternative manual/automatic					
	Ratio	No.	teeth	Ratio	No.	teeth	Ratio	No.	teeth	Ratio	No.	teeth
1	3.684	$\frac{32}{19}$	$\frac{35}{16}$	1.82		$\frac{23 + 28}{28}$						
2	2.050	$\frac{32}{19}$	$\frac{28}{23}$	1.00								
3	1.384	$\frac{32}{19}$	$\frac{23}{28}$									
4	1.000											
5												
6												
reverse	4.316	$\frac{32}{19}$	$\frac{41}{16}$	1.82		$\frac{23 + 28}{28}$						

- 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 4.222, 4.444
- Number of teeth 38/9, 40/9

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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.

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

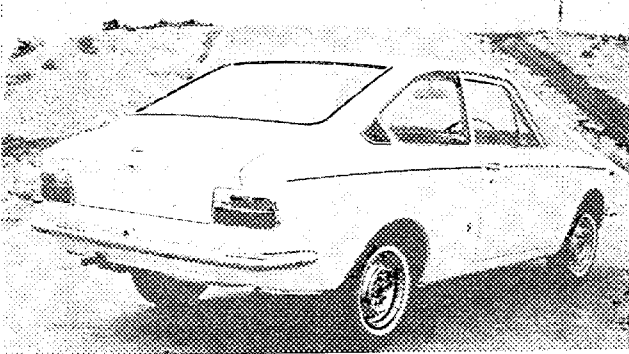
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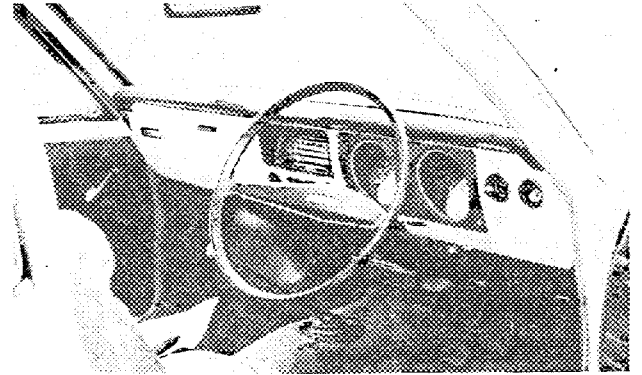
F. I. A. Rec. No.

Photograph

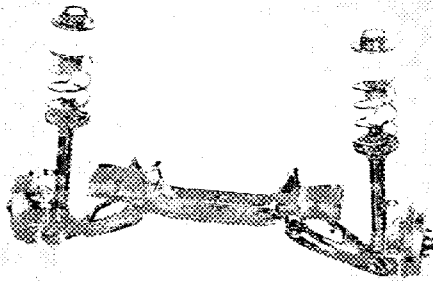
B, 3/4 view of car from rear



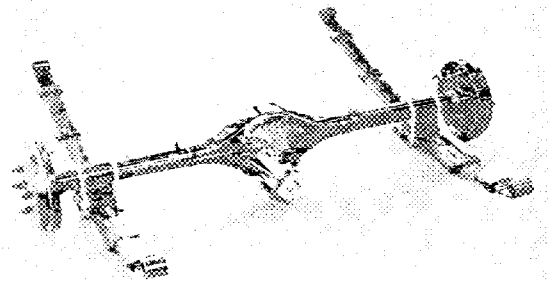
C, interior view of car through driver's door (open or removed) with dashboard



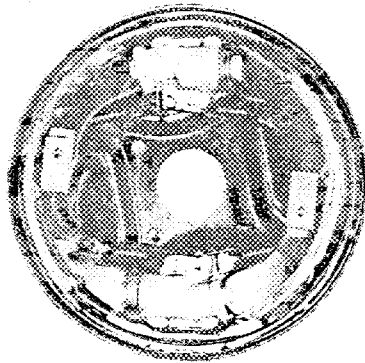
D, front axle complete, removed from car. Without wheels.



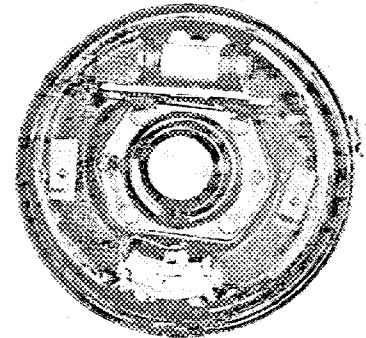
E, rear axle complete without wheels, removed from car.



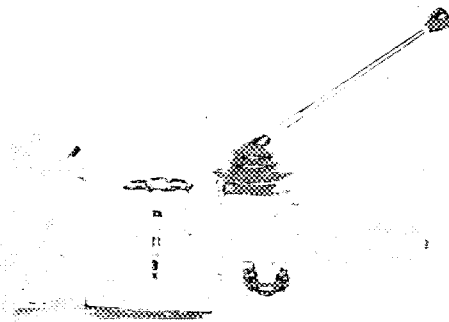
F, front brake drum removed or disc with caliper(s)



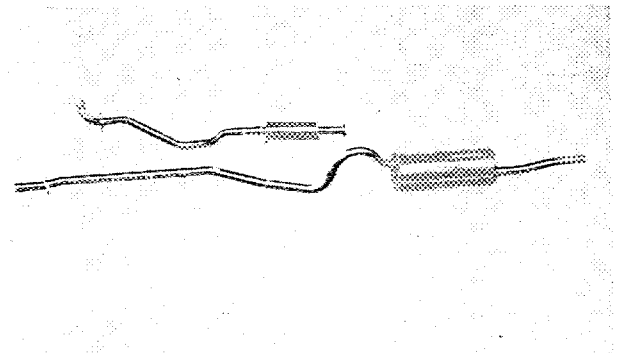
G, rear brake drum removed or disc with caliper(s)



H, gear-box, view from side

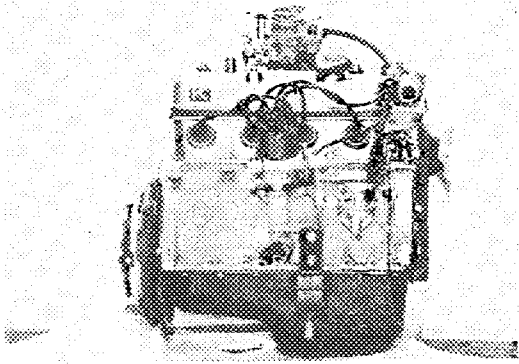


I, silencer + exhaust pipes after exhaust manifold



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

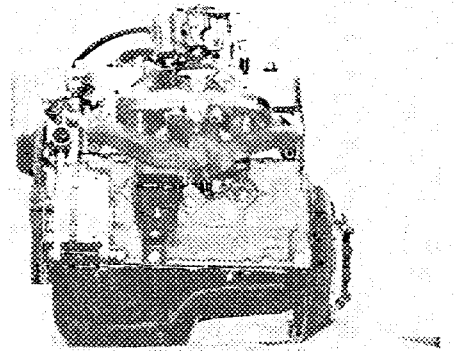


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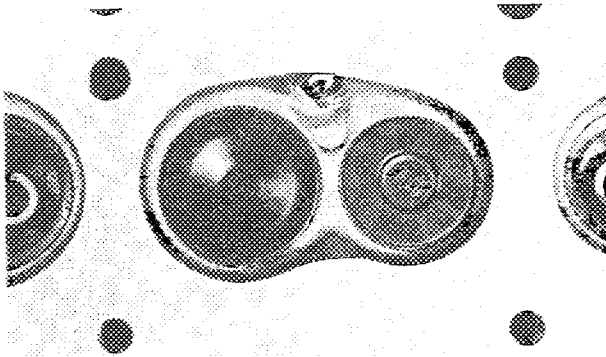
F. I. A. Rec. No

Photograph

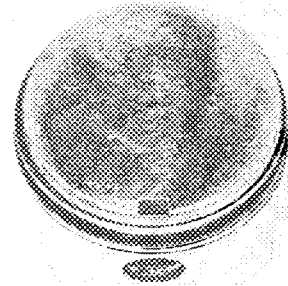
Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



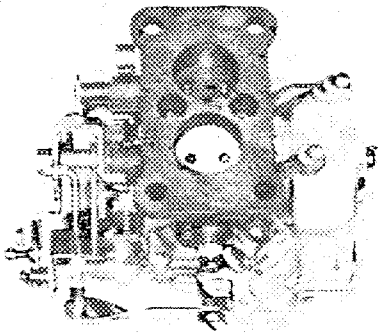
L, combustion chamber



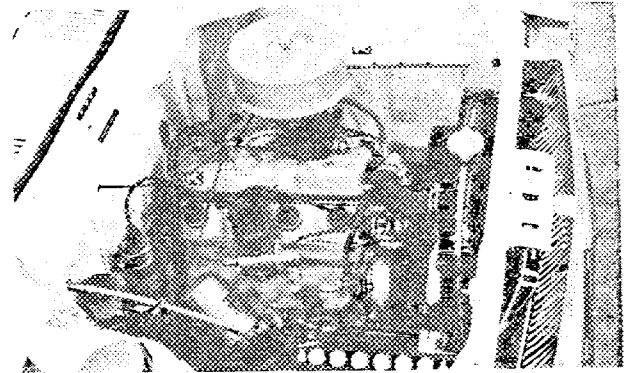
M, piston crown



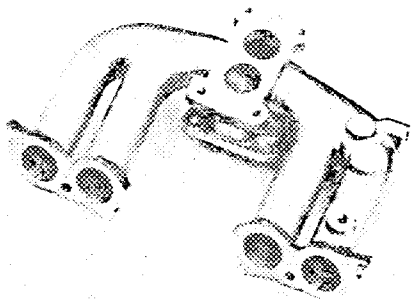
N, Carburettor (view from side of manifold)



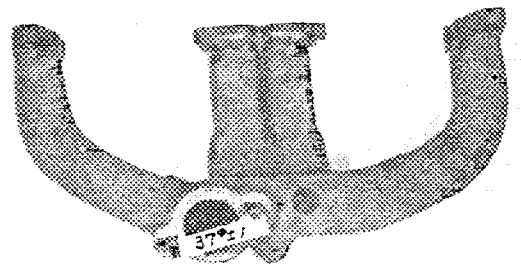
O, engine in car with all accessories, bonnet open or removed



P, inlet manifold



Q, exhaust manifold



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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

難波靖治

Yasuharu Nanba

Make

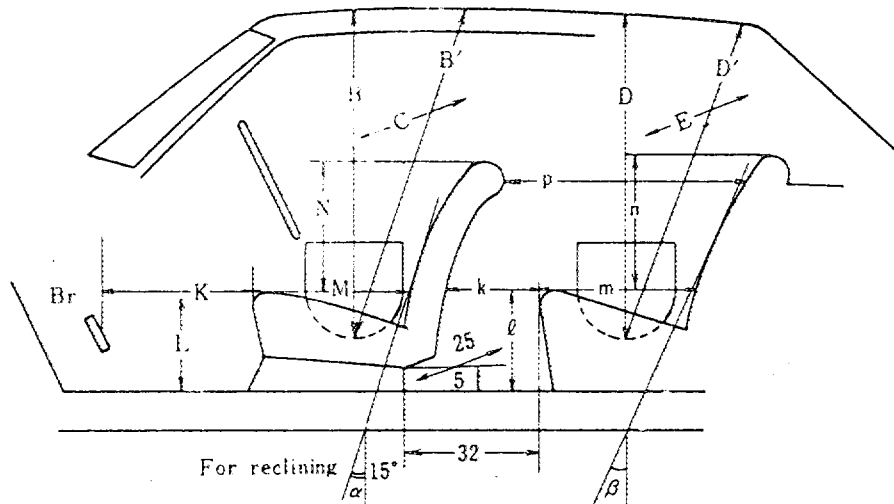
Toyota

Model

KE15

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
92	96	15°	123	91	87	13°	127

Minimum Dimensions (cm)										
L	ℓ	M	m	N	n	k+m	p	k	k+l+m	K+L+M
28	31	44	45	42	40	64	56	19	95	120
0.9L = 25.2		0.85M = 37.4		0.8N = 33.6		0.8(k+m) = 51.2		(15)	(95)	(120)

VALID FOR GROUP 2 ONLY



JAPAN AUTOMOBILE FEDERATION F.I.A. Homol. No

Original FIA Recog.
No. 5236

1111V

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Amendment to Form of Recognition
in accordance with the International
Sporting Code.

Make Toyota Motor Co., Ltd. Model Corolla Sprinter, KE 15
Modification's application starts with serial chassis KE 15-100001
No. engine K-100001
Application of this amendment started the 1st April, 1968
Commercial denomination after application of modifications
The modifications are to be considered as: Variant / ~~XXXXXXXXXXXXXXXXXXXX~~
Date amendment is valid from 1st July '69 List 1969/5

Description of amendment Disc brakes on front wheels

- | | | |
|-----|-------------------------------|--|
| 93 | Number of cylinders per wheel | 1 |
| 94 | Bore of wheel cylinder(s) | 1 3/4 in |
| 100 | Outside diameter | 200mm |
| 101 | Thickness of disc | 10mm |
| 102 | Length of brake linings | 97mm |
| 103 | Width of brake linings | 37mm |
| 104 | Number of pads per brake | 2 |
| 105 | Total area per brake | 61.0 x 10 ² mm ² |

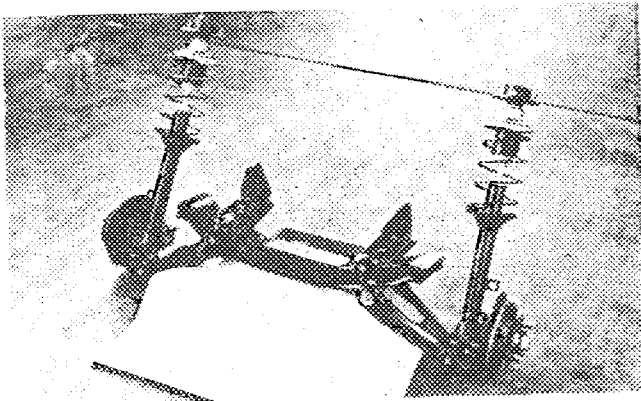


Photo D

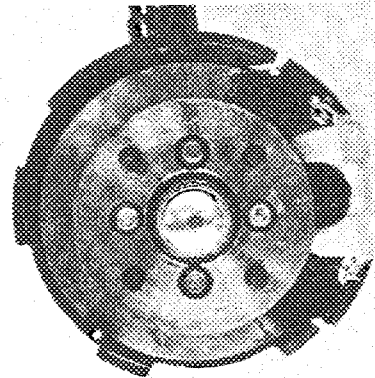


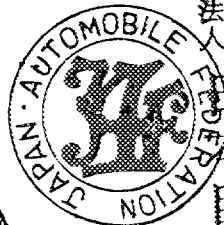
Photo F

Stamp and signature of
National Sporting Authority

JAPAN AUTOMOBILE FEDERATION

[Handwritten signature]

Kazunari Komotori



社団法人
日本自動車連盟
機械振興会館内

Stamp and signature of F.I.A.



東京都港区芝公園第三号地一番五