



Make Toyota

Model Kell

F.I.A. Rac. No.

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

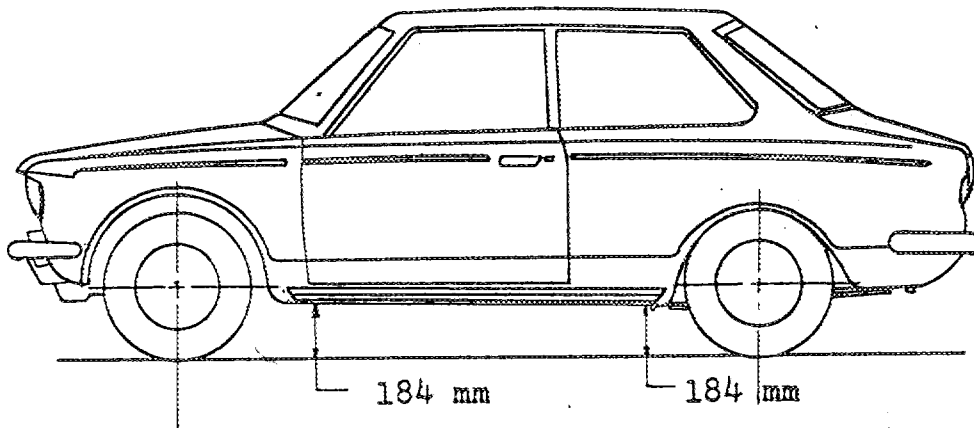
**CAPACITIES AND DIMENSIONS**

1. <u>Wheelbase</u>	2,285	mm	90.0	inches
2. <u>Front track</u>	1,235	mm	48.7	inches *
3. <u>Rear track</u>	1,220	mm	48.1	inches *
4. Overall length of the car			385.5	cm inches
5. Overall width of the car			148.5	cm inches
6. Overall height of the car			138.0	cm inches
7. <u>Capacity of fuel tank</u> (reserve included)				36 ltrs Gallon imp.
	9.5	Gallon US		
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:				
	675	kg	1485	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.

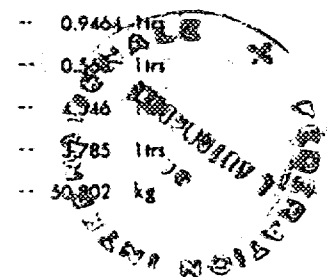
Specify ground clearance in relation to the track and give drawing of two fixed points of the vehicle's structure at which measurements are taken.

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	-- 0.946 ltrs
1 foot / pied	-- 30.4794 cm	1 pint (pt)	-- 0.473 ltrs
1 square inch / pouce carré	-- 6.452 cm <sup>2</sup>	1 gallon imp.	-- 4.546 ltrs
1 cubic inch / pouce cube	-- 16.387 cm <sup>3</sup>	1 gallon US	-- 3.785 ltrs
1 pound / livre (lb)	-- 453.593 gr.	1 hundred weight (cwt)	-- 50.802 kg



Make Toyota

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F. I. A. Rec. No

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

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

**ACCESSORIES AND UPHOLSTERY**

38. Interior heating : ~~XXXX~~ - no
39. Air-conditioning : ~~XX~~ - 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 :  
12,4 x 2 kg lbs
43. Rear seats, type of seats and upholstery Bench, Vinyl leather
44. Front bumper, material (s) Steel Weight 3.9 kg lbs
45. Rear bumper, material (s) Steel Weight 3.9 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 3.0
63. In case of servo-assistance



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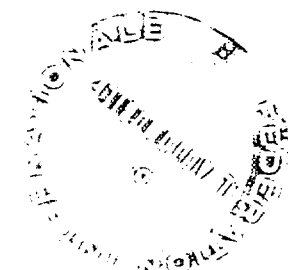
SUSPENSION

- 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

BRAXES (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)	20,64 mm	in.	17,46 mm	in.
<b>Drum brakes</b>				
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 x 10 <sup>2</sup> mm <sup>2</sup>	sq. in.	115 x 10 <sup>2</sup> mm <sup>2</sup>	sq. in.
<b>Disc brakes</b>				
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 <sup>2</sup>	sq. in.	mm <sup>2</sup>	sq. in.



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ENGINE (photographs ) and X)

- 130. Cycle 4
- 131. Number of cylinders 4
- 132. Cylinder arrangement In line
- 133. Bore 75 mm 2.96 in. 134. Stroke 66 mm 2.60 in.
- 135. Capacity per cylinder 291 cm<sup>3</sup> 17.8 cu. in.
- 136. Total cylinder-capacity 1166 cm<sup>3</sup> 71.1 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 9.0
- 143. Volume of one combustion chamber 36.4 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  
36 mm inches
- 147. Crankshaft : moulded / ~~xxxxx~~ 148. Type of crankshaft : integral ~~xxxxx~~
- 149. Number of crankshaft main bearings 5
- 150. Material of bearing cap Cast iron
- 151. System of lubrication : ~~xxxxx~~ / oil in sump
- 152. Capacity, lubricant 3.5 ltrs pts quarts US
- 153. Oil cooler : ~~xxxxx~~ / no
- 154. Method of engine cooling Water pints quarts US
- 155. Capacity of cooling system 4.7 ltrs
- 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. 45 mm in.

Weights

- 160. Flywheel (clean) 9.1 kg lbs
- 161. Flywheel with clutch (all turning parts) 12.3 kg lbs
- 162. Crankshaft 8.9 kg
- 163. Connecting rod 0.47 kg lbs
- 164. Piston with rings and pin 0.4 kg lbs



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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 Aluminum alloy  
 181. Diameter of valves 35 mm 1.38 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.  $16^{\circ} \pm 2.5^{\circ}$   
 188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C.  $50^{\circ} \pm 2.5^{\circ}$   
 89. Air filter, type Dry

EXHAUST (see page 8)

195. Material (s) of exhaust manifold Cast iron  
 196. Diameter of valves 29 mm 1.14 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.  $50^{\circ} \pm 2.5^{\circ}$   
 203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C.  $16^{\circ} \pm 2.5^{\circ}$

CARBURETION (photograph N)

210. Number of carburetors fitted 1 211. Type Down draught  
 212. Make Aisan 213. Model 3K  
 214. Number of mixture passages per carburetor 2  
 215. Flange hole diameter of exit port(s) of carburetor 28 & 28 mm in.  
 216. Minimum dimensions of mixture passage(s) ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~  
 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.



Make Toyota

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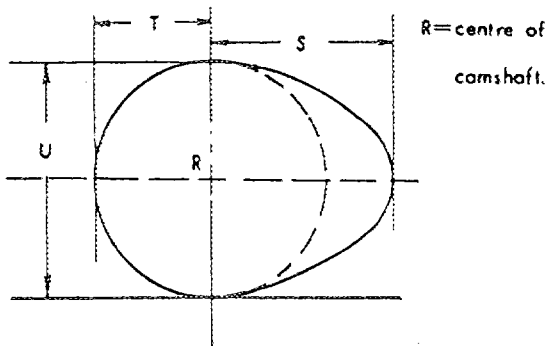
ENGINE ACCESSORIES

230. Fuel pump	mechanical and / <del>XXXXXX</del>	231. No. fitted	1
232. Type of ignition system	Make and break	233. No. of distributors	1
234. No. of ignition coils	1	235. No. of spark plugs per cylinder	1
236. Generator, type: <del>XXXX</del> /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	68 PS (type of horsepower: JIS ) at	6000	rpm
251. Maximum rpm	6500	output at that figure	66PS
252. Maximum torque	9.5 kg-m	at 3800	rpm
253. Maximum speed of the car	145	km/hour	miles / hour

255.



Inlet cam

S =	21.1	mm	0.831	inches
T =	15.4	mm	0.607	inches
U =	30.8	mm	1.214	inches

Exhaust cam

S =	21.2	mm	0.835	inches
T =	15.2	mm	0.599	inches
U =	30.4	mm	1.198	inches

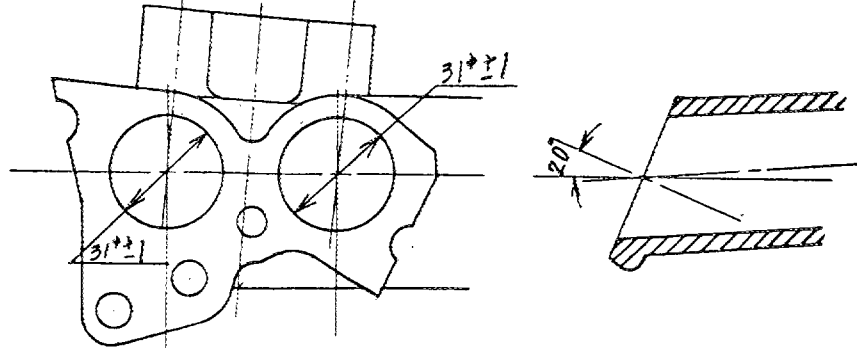


Make Toyota

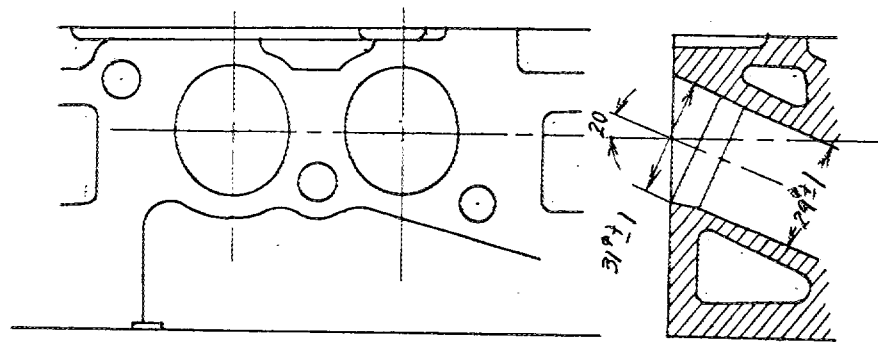
Model KE11

F. I. A. Rec. No

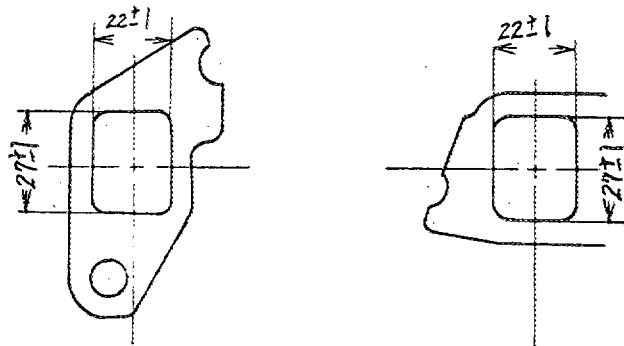
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



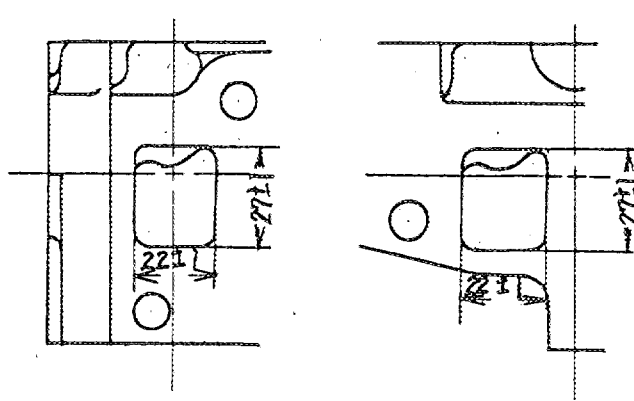
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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





Make Toyota

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

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

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



Make Toyota

Model KELL

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 preceding information. This to be stated together with reference number.

### Disc brakes on front

100 : Outside diameter	:	200	mm
101 : Thickness of disc	:	10	mm
102 : Length of brake linings	:	97	mm
103 : Width of brake linings	:	37	mm
104 : Number of pads per brake	:	2	
105 : Total area per brake	:	61.0 x 10 <sup>2</sup>	mm <sup>2</sup>

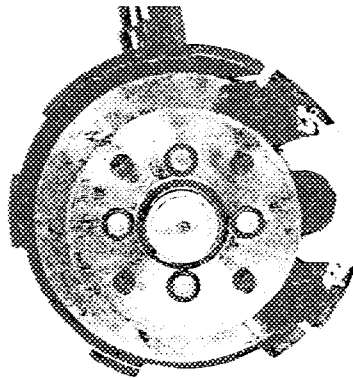


Photo F front brake disc with caliper (s)  
Pouf door version



Photo A 3/4 view car from front



Photo B 3/4 view car from rear

Make Toyota

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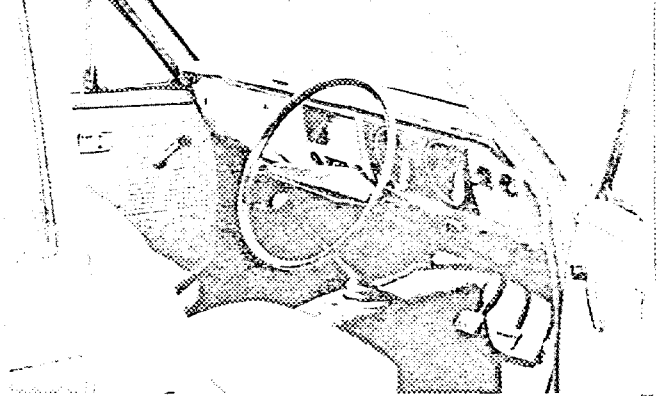
F.I.A. Rec. No.

Photograph

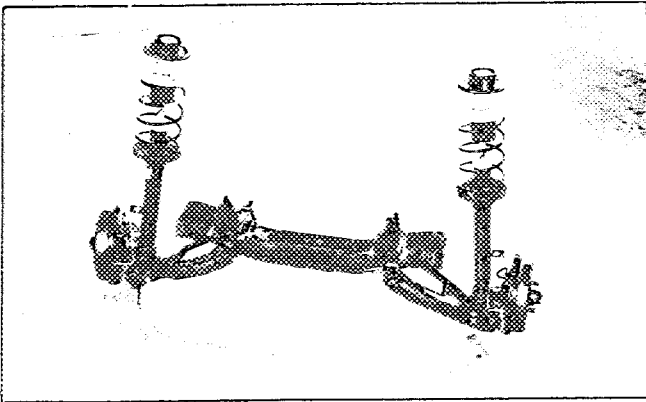
B, 3/4 view of car from rear



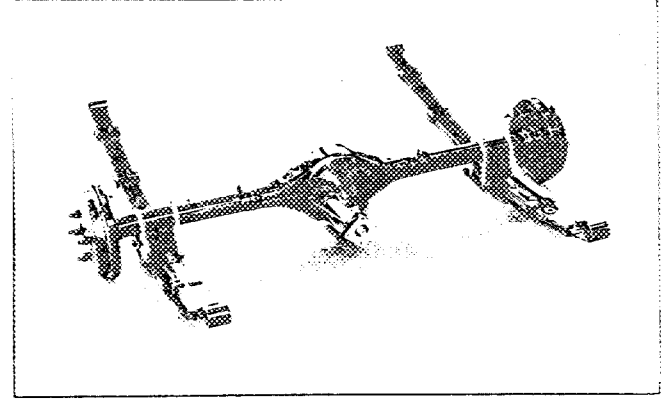
interior view of car through driver's door (open or removed)  
C, with dashboard



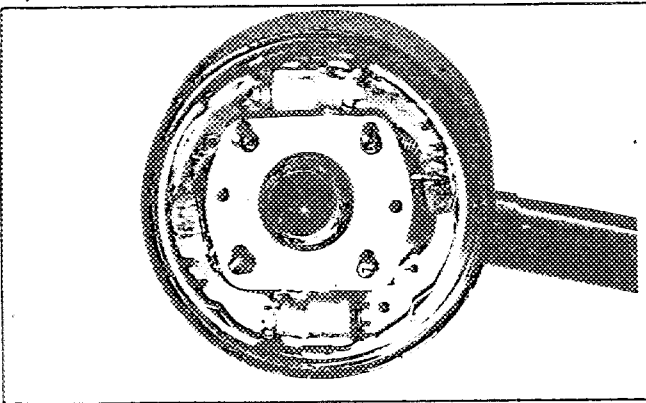
D, front axle complete, removed from car. Without wheels.



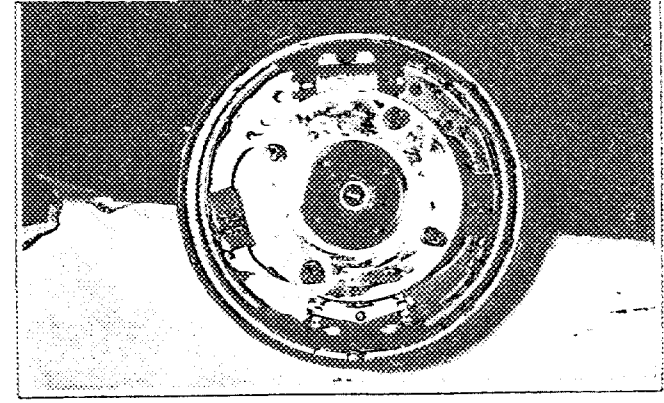
E, Rear axle complete without wheels, removed from car.



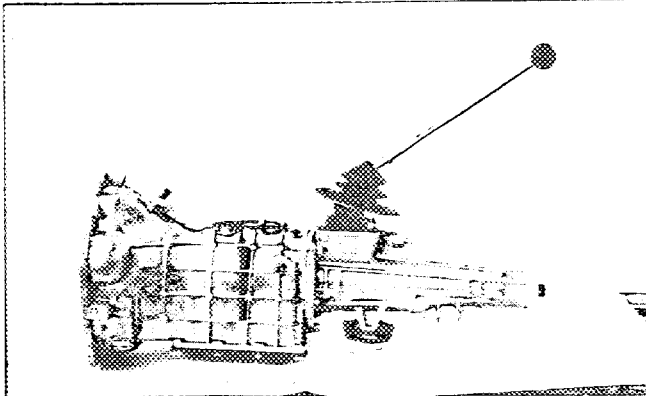
F, front brake, drum removed or disc with calipers!



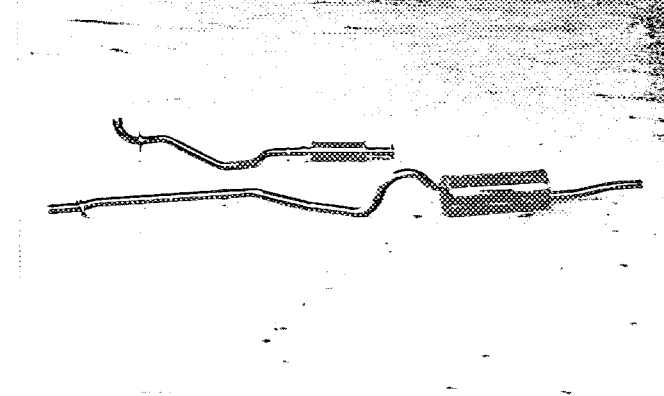
G, rear brake, drum removed or disc with calipers!



H, gear-box, view from side

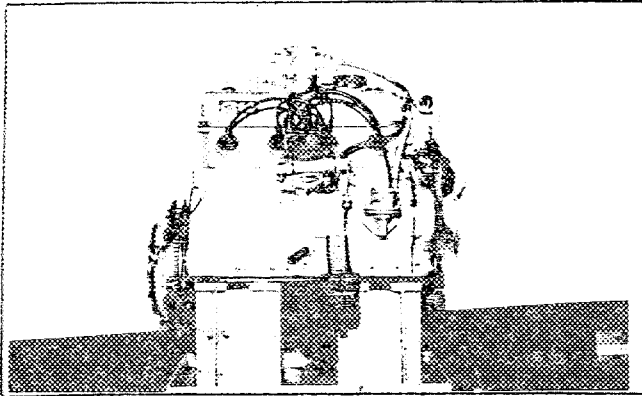


I, silencer + exhaust pipes after exhaust manifold.

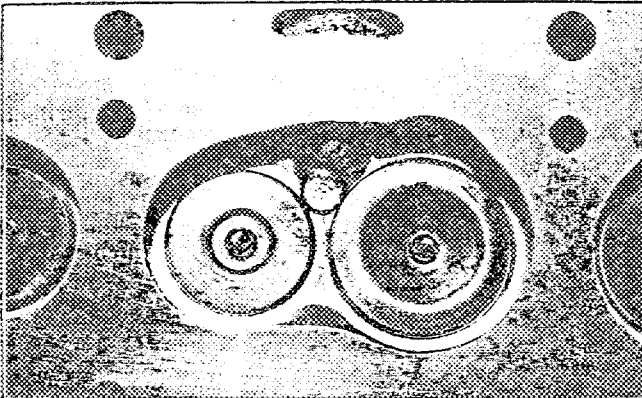


Make Toyota

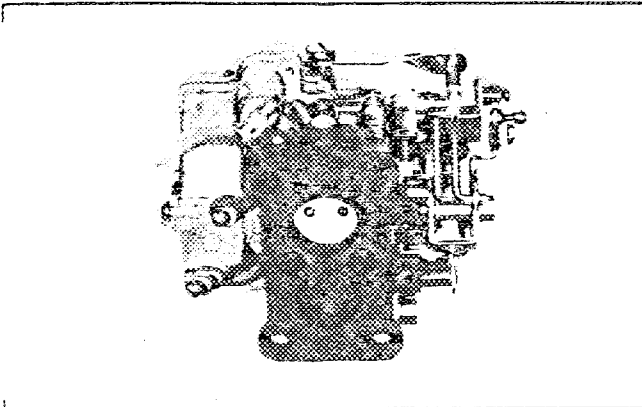
engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.



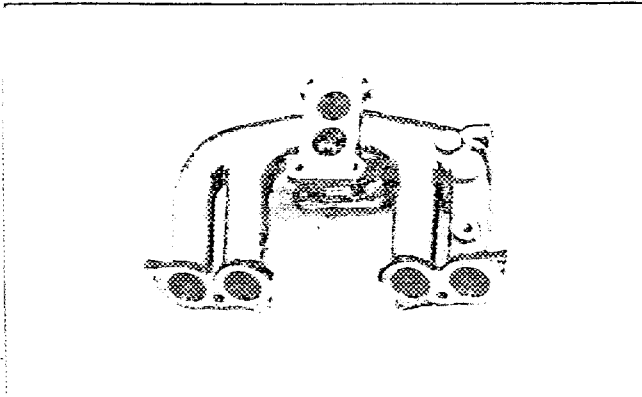
L, combustion chamber



N, Carburettor (view from side of manifold)



P, inlet manifold

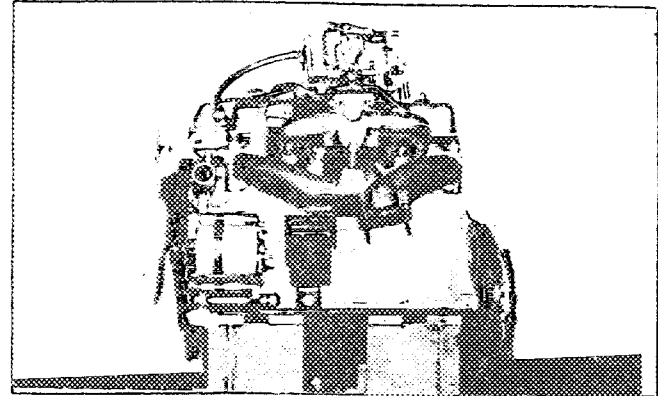


Model KE11

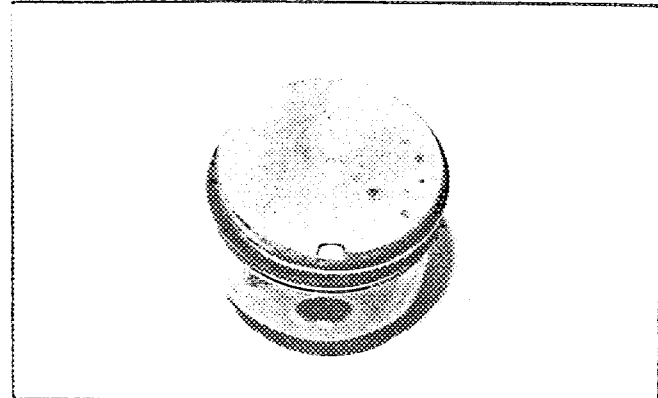
F. I. A. Rec. No

Photograph

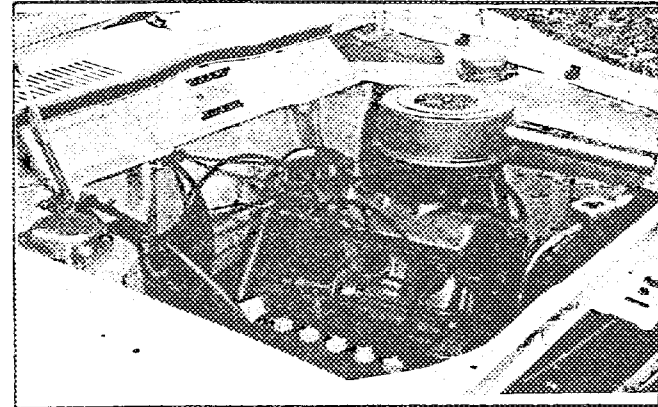
Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



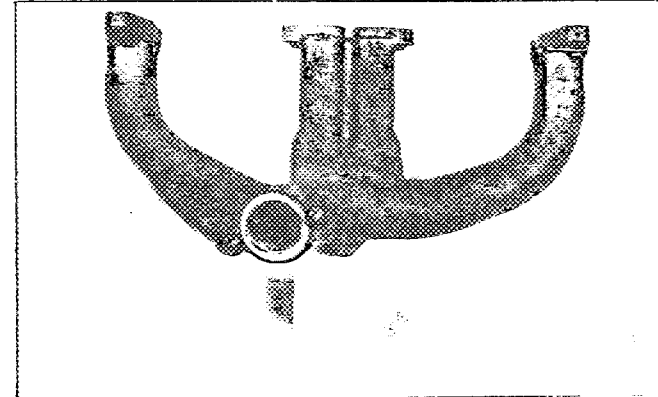
M, piston crown



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

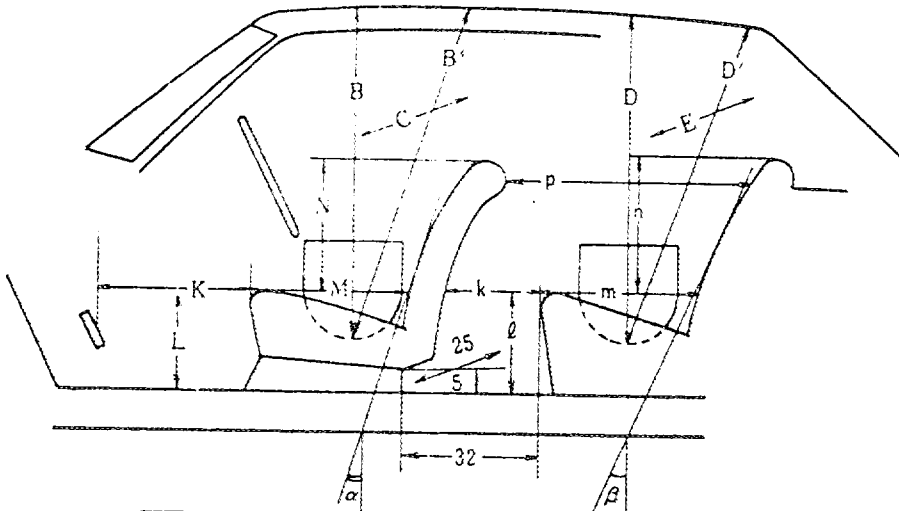


Q, exhaust manifold



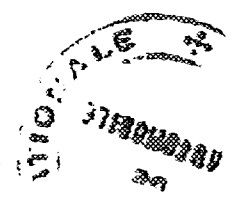
DIMENSIONS OF INTERIOR  
(Conform to Art. 253 b of Appendix J)

For four seaters.



Minimum Dimensions (cm)							
B	B'	$\alpha$	C	D	D'	$\beta$	E
92	97	19°	124	95.5	96	20°	124.5

Minimum Dimensions (cm)										
L	$\ell$	M	m	N	n	k+m	p	k	k+l+m	K+L+M
30.5	32	46	43.5	46.5	43	65.5	62.5	22	97.5	121
0.9L =	27.5	0.85M =	39.0	0.8N =	37.0	0.8(k+m) =	52.5	(15)	(95)	(120)



Make Toyota

Model KELL

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<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

難波靖彦

Yasuharu Nanba





NOT VALID FOR GROUP 1 ONLY

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

Original FIA Recog. No. 5318 /A/45-6:II

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Make Toyota Motor Co., Ltd.

Model Toyota Corolla, KE11

Modification's application starts with serial No. chassis KE11-000001

engine 3K 0000001

Application of this amendment started the 1st January, 1971

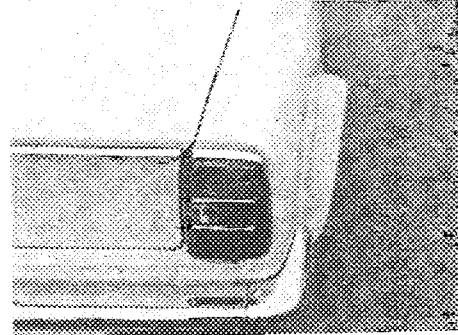
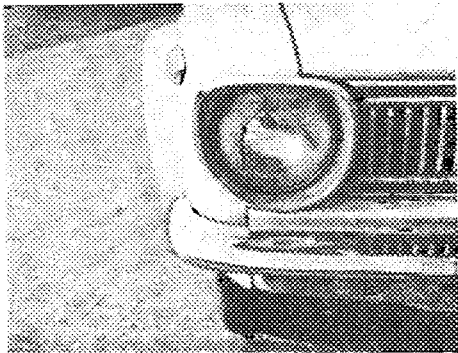
Commercial denomination after application of modifications

The modifications are to be considered as: Variant / ~~XXXXXX~~

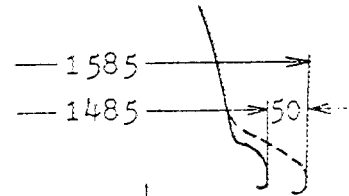
Date amendment is valid from 1/4/71 List 71/4

Description of amendment

Wing extensions



Front



1235 Fr  
1220 Rr

Center of original rim

Rear

Unit : mm

Stamp and signature of National Sporting Authority

JAPAN AUTOMOBILE FEDERATION

三井平八郎  
Heihachiro Mitsui

Stamp and signature of F.I.A.