



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No.
 Group 2

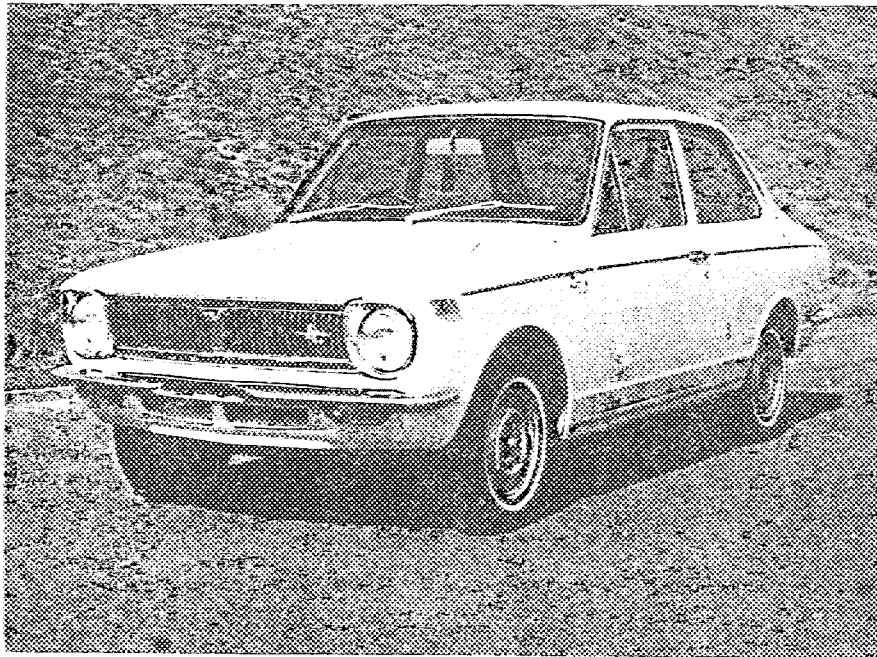
1580

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

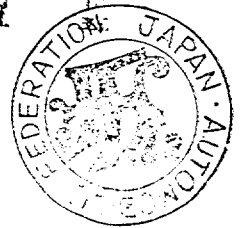
Form of recognition in accordance with
 Appendix J to the International Sporting Code.

Manufacturer **Toyota Motor Co., Ltd.** Cylinder-capacity **1166** cm³ 71.1 cu. in
 Serial No. of chassis **KEL1-000001** Model **Toyota Corolla SL, KEL1-S**
 engine **3K 0000001** Manufacturer **Toyota Motor Co., Ltd.**
 Recognition is valid from **1/1/70** Manufacturer **Toyota Motor Co., Ltd.**
List **70/A**
 The manufacturing of the model described in this recognition form was started on **August 1969** and the minimum production of **1000** identical cars, in accordance with the specifications of this form was reached on **Sept. 1969**

Photograph A, 3/4 view of car from front



東京都港区芝公園第三号地一系
 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

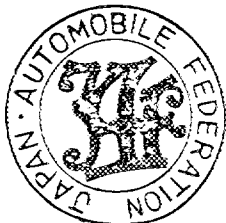
on	19	rec. No.	List
on	19	rec. No.	List
on	19	rec. No.	List
on	19	rec. No.	List
on	19	rec. No.	List

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.



Handwritten signature and a circular stamp of the F.I.A. (Federation Internationale de l'Automobile)

Make **Toyota**

Model **KELI - 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 conversion table hereafter.

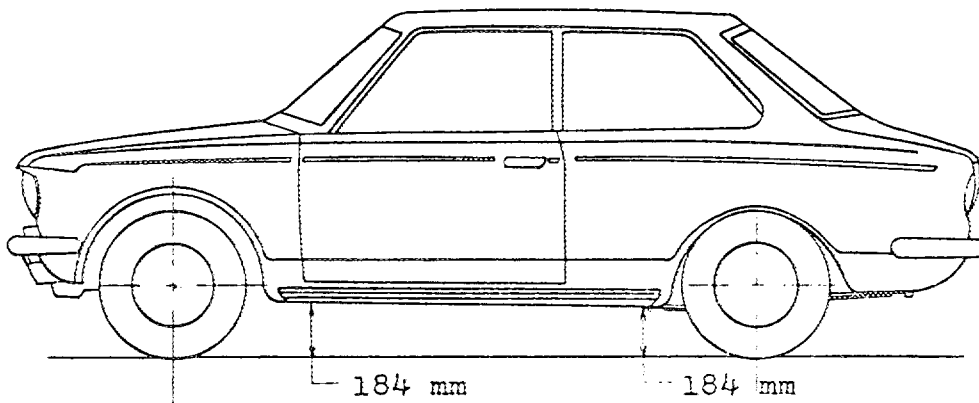
CAPACITIES AND DIMENSIONS

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
	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				
	700	kg	1540	lbs
				cwt

* Differences in track caused by the use of other wheels with different rim widths must be stated when recognition is requested in 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)	-- 0.568 ltrs
1 square inch / pouce carré	-- 6.452 cm ²	1 gallon Imp.	-- 4.536 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 Kell-S

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

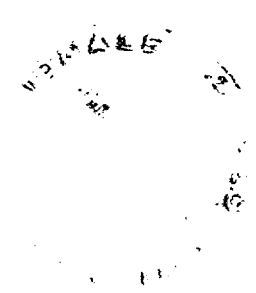
- 38. Interior heating : ~~XXXX~~ - no
- 39. Air-conditioning : ~~XX~~ - no
- 40. Ventilation : yes - ~~XX~~
- 41. Front seats, type of seats and upholstery Separate, Vinyl leather
- 42. Weight of front seat (s), complete with supports and rails, out of the car
12,8 x 2 kg lbs
- 43. Rear seats, type 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
- 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



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

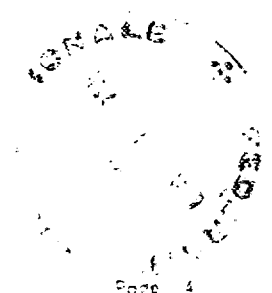
	FRONT		REAR	
93. Number of cylinders per wheel	1		1	
94. Bore of wheel cylinder (s)	44.45	mm	17.46	mm

Drum brakes

95. Inside diameter		mm	in.	200	mm	in.
96. Length of brake linings		mm	in.	192	mm	in.
97. Width of brake linings		mm	in.	30	mm	in.
98. Number of shoes per brake						2
99. Total area per brake		mm ²	sq. in.	115 x 10 ²	mm ²	sq. in.

Disc brakes

100. Outside diameter	200	mm	in.		mm	in.
101. Thickness of disc	10	mm	in.		mm	in.
102. Length of brake linings	97	mm	in.		mm	in.
103. Width of brake linings	37	mm	in.		mm	in.
104. Number of pads per brake						2
105. Total area per brake	61.0 x 10 ²	mm ²	sq. in.		mm ²	sq. in.



Make Toyota

Model KE11-S

F. I. A. Rec. No.

ENGINE (photographs J and K)

130. Cycle	4	131. Number of cylinders	4
132. Cylinder arrangement	In line		
133. Bore	75 mm	134. Stroke	66 mm
	2.96 in.		2.60 in.
135. Capacity per cylinder	291 cm ³		17.8 cu. in.
136. Total cylinder capacity	1166 cm ³		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	10.0		
143. Volume of one combustion chamber	32.4 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	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 : xxx / 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.	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



Make Toyota

Model KELL-S

F.I.A. Rec. No.

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 Alumimun 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. Numbdr 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.T.D.C. $50^{\circ} \pm 2.5^{\circ}$
 189. 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 2 211. Type Down draught
 212. Make Aisan 213. Model 3K-B
 214. Number of mixture passages per caburettor 2
 215. Flange hole diameter of exit port(s) of carburettor 28 & 28 mm in
 216. Minimum dimensions of mixture pasage (s) ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~
 18 & 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

Model Kell-S

F.I.A. Rec. No.

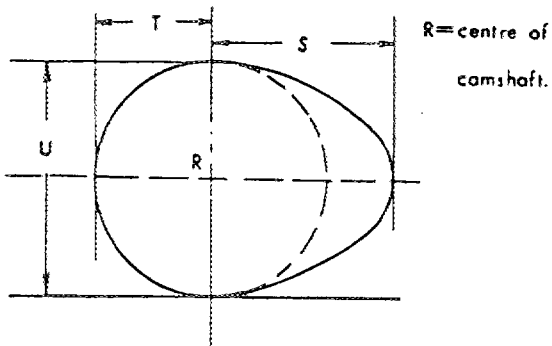
ENGINE ACCESSORIES

230. Fuel pump : mechanical and / XXXXXX	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: XXXXXX /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 77PS (type of horsepower: JIS) at 6600 rpm
251. Maximum rpm 6700 output at that figure 76.5PS
252. Maximum torque 9.6 kg-m at 4600 rpm
253. Maximum speed of the car 160 km/hour miles / hour

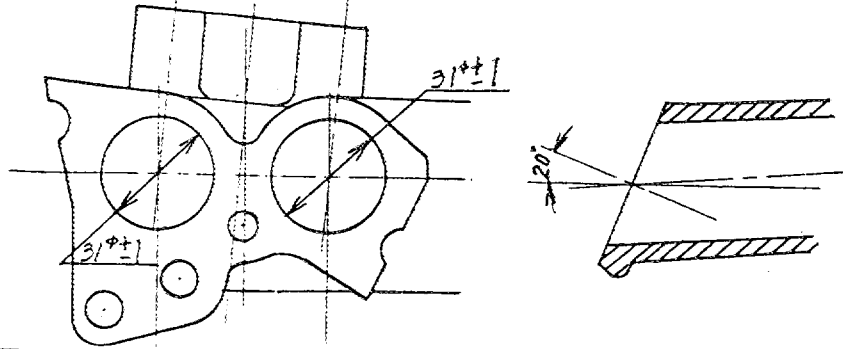
255.



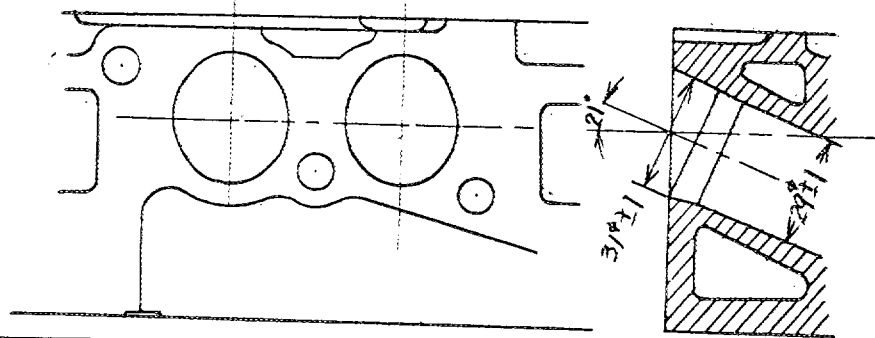
<u>Inlet cam</u>			
S =	21.1	mm	0.831 inches
T =	15.4	mm	0.607 inches
U =	30.8	mm	1.214 inches
<u>Exhaust cam</u>			
S =	21.2	mm	0.835 inches
T =	15.2	mm	0.599 inches
U =	30.4	mm	1.198 inches



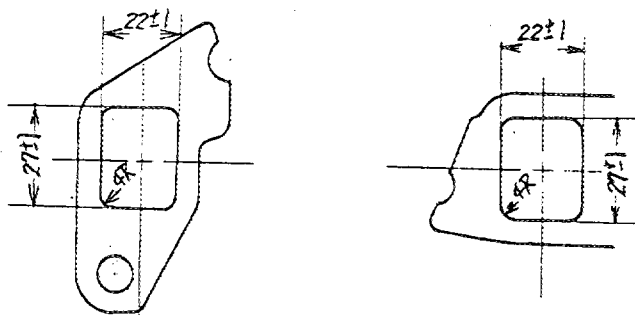
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance



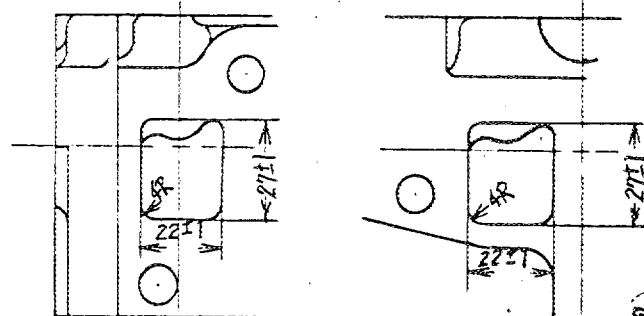
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



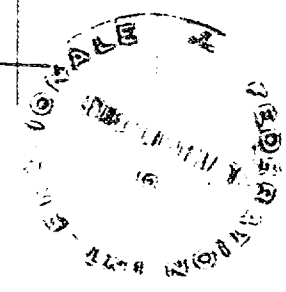
Drawing exhaust manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



Drawing of exit to exhaust port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



Unit : mm



Make Toyota

Model Kell-S

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
- 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-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 1, 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, 76, 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.

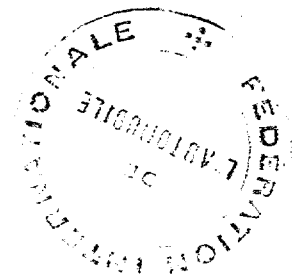
Four door version



Photograph A 3/4 view car
from front



Photograph B 3/4 view car
from rear

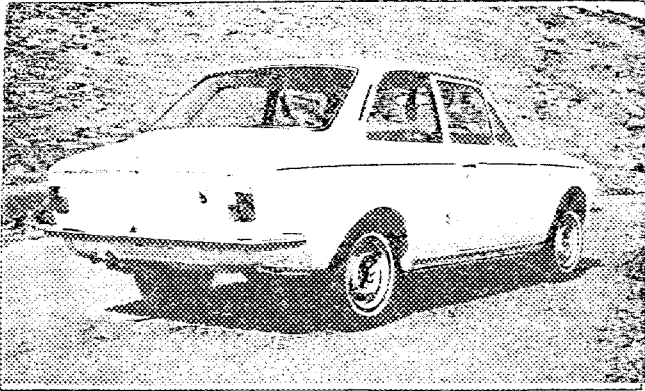


Make Toyota

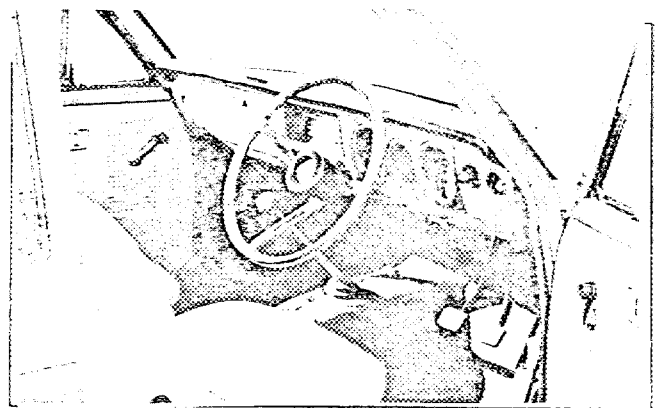
Model KE11-S
Photograph

F. I. A. Rec. No.

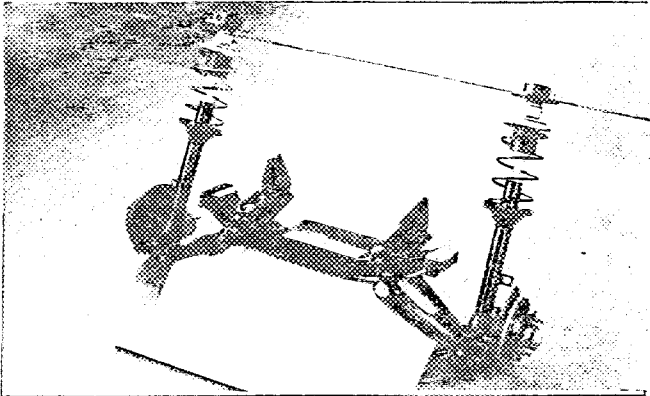
B, 3/4 view of car from rear



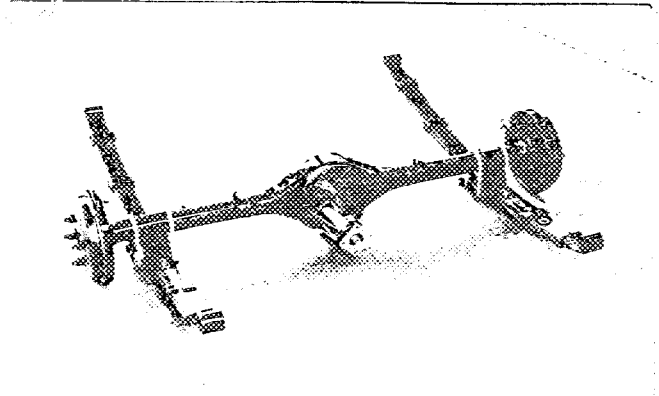
C, interior view of car through driver's door (open or removed)



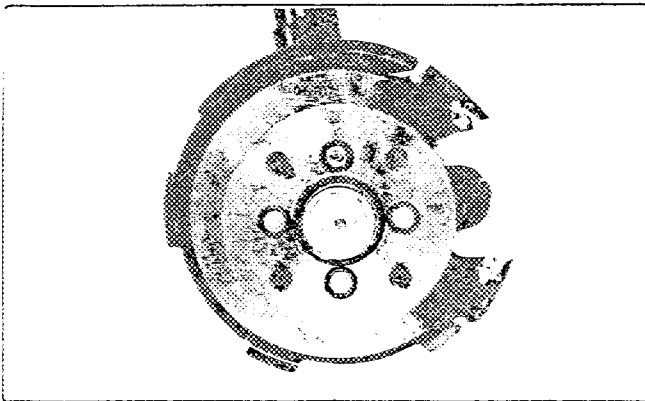
D, front axle complete, removed from car. Without wheels.



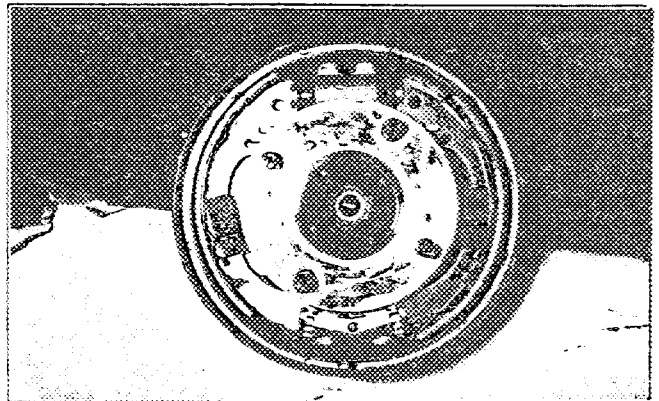
E, Rear axle complete without wheels, removed from car.



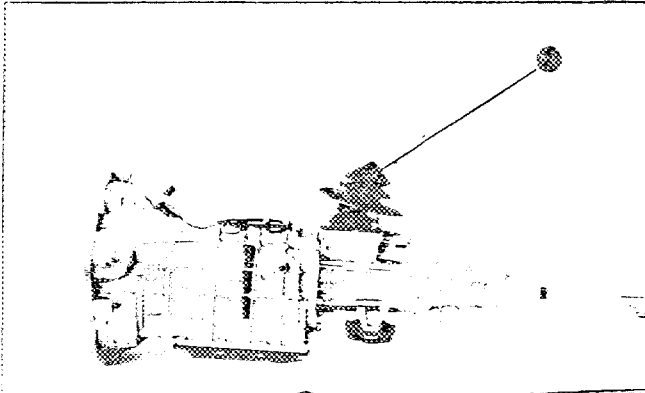
F, front brake, drum removed or disc with caliper(s)



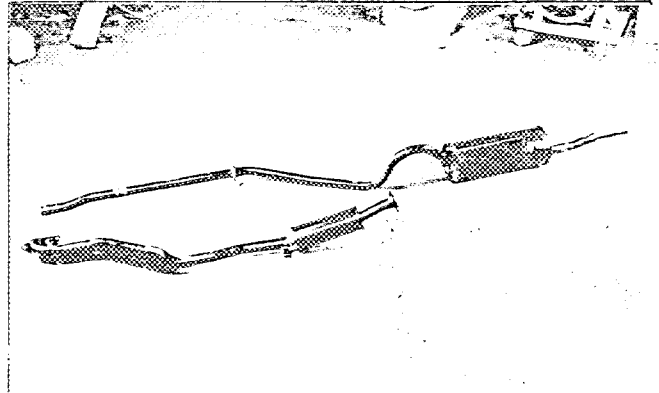
G, rear brake, drum removed or disc with caliper(s)



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold



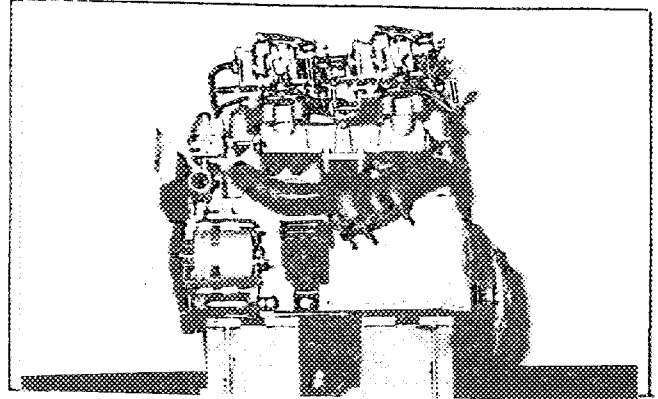
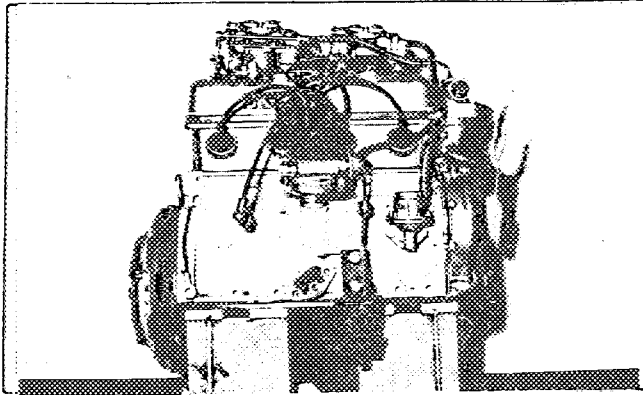
Make **Toyota**

Model **KELL-S**

F.I.A. Rec. No

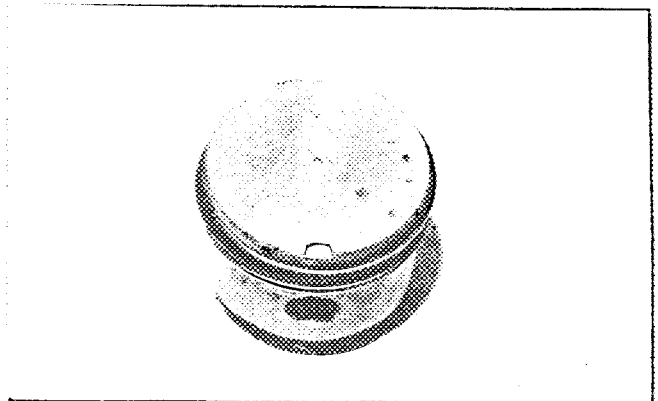
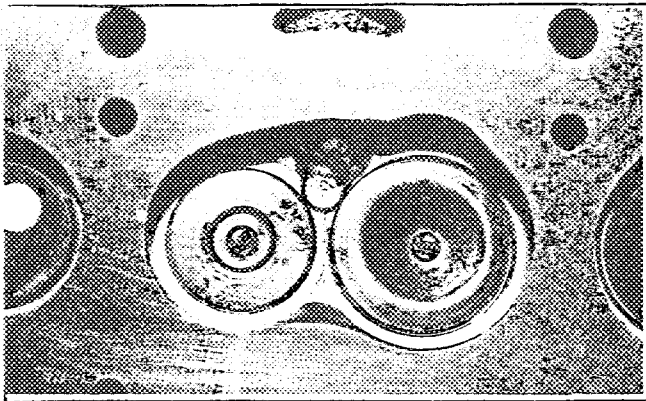
engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.

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



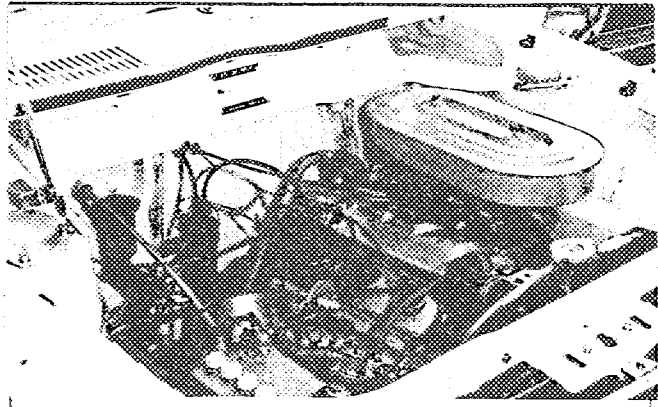
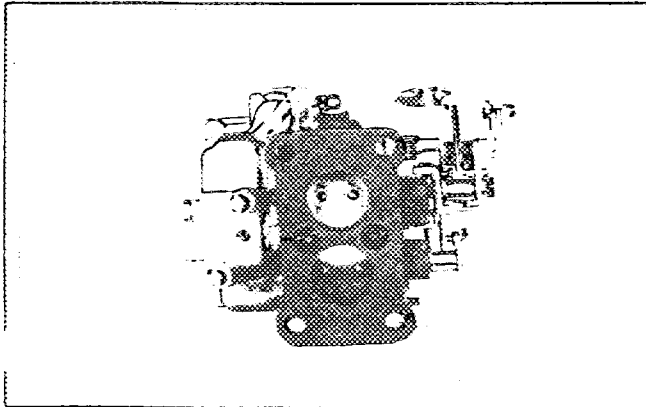
L, combustion chamber

M, piston crown



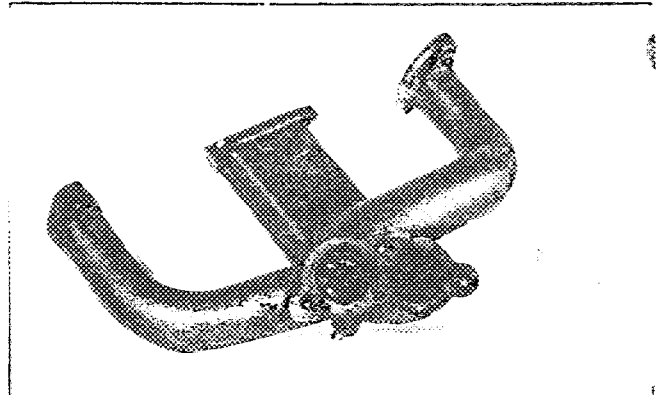
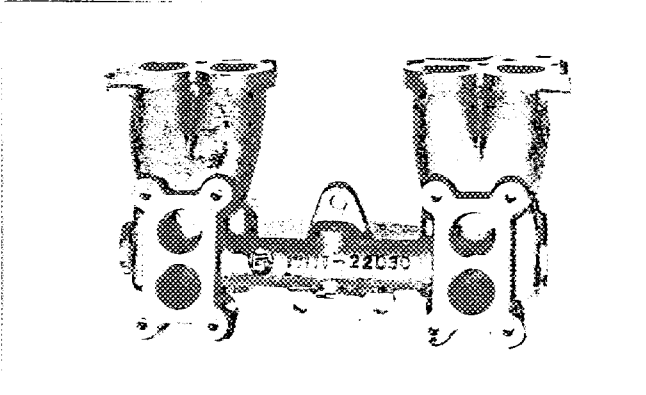
N, Carburettor (view from side of manifold)

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



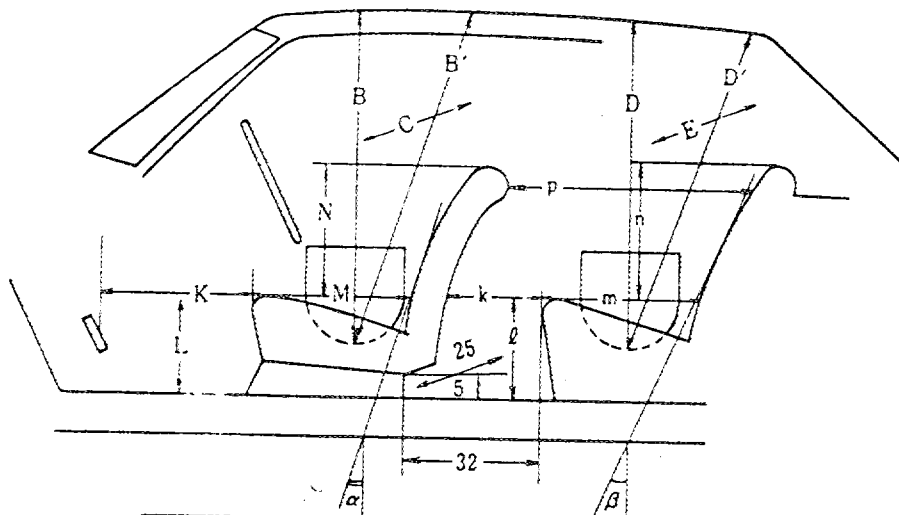
P, inlet manifold

Q, exhaust manifold



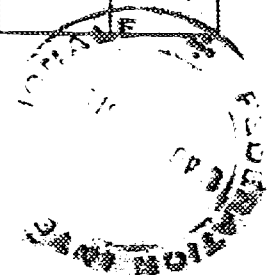
DIMENSIONS OF INTERIOR
(Conform to Art. 253 b of Appendix J)

For four seaters:



Minimum Dimensions (cm)							
B	B'	α	C	D	D'	β	E
94.5	99.5	19°	124	95.5	96	20°	124.5

Minimum Dimensions (cm)										
l	ℓ	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		0.8N = 37		0.8(k+m) = 52.5		(15)	(96)	(120)



Make Toyota

Model KE11-S

F.I.A. Ref. No

TWO STROKE ENGINES

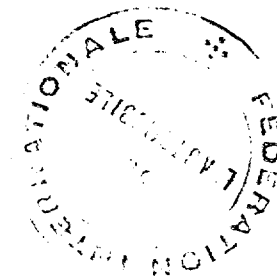
- 300. System of cylinder scavenging
- 301. Type of lubrication
- 302. Inlet ports, length measured around cylinder wall mm inches
- 303. Height inlet port mm in. 304. Area mm² sq. in.
- 305. Exhaust ports, length measured around cylinder wall mm inches
- 306. Height exhaust port mm in. 307. Area mm² 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 :

MOULLE FEDERATION

野矢清治

Yasuharu Nanba





NOT VALID FOR GROUP 1 ONLY

JAPAN AUTOMOBILE FEDERATION

F.I.A. Homol. No

Original FIA Recog.

No. 1580

1/1/71

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 SL, KE11-S

Modification's application starts with serial No. chassis KE11-000001
engine 3K 0000001

Application of this amendment started the 1st January, 1971

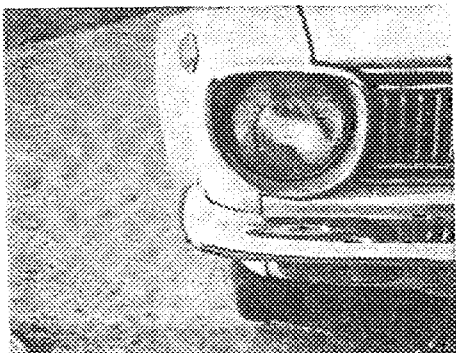
Commercial denomination after application of modifications

The modifications are to be considered as: Variant/ ~~non-compliance of the type~~

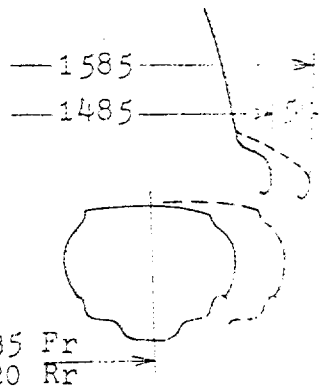
Date amendment is valid from *1/1/71* List *7/1/4*

Description of amendment

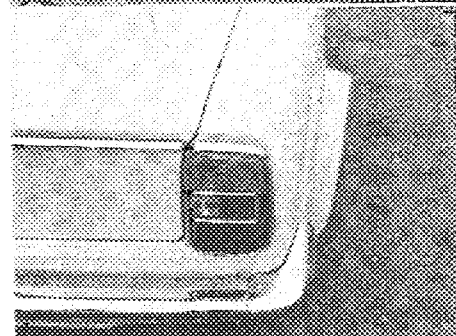
Wing extensions



Front



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.