



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. *1542*

Group *2-Towing*

5306

9/1

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 *KE15-100001*

engine *K-100001*

Recognition is valid from *1st November 1968*

The manufacturing of the model described in this recognition form was started on *April 1968* and the minimum production of *1000* identical cars, in accordance with the specifications of this form was reached on *May 1968*

Cylinder-capacity *1077* cm³ *65.8* cu in

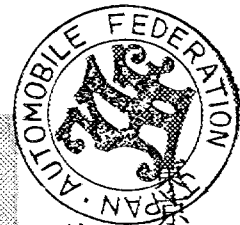
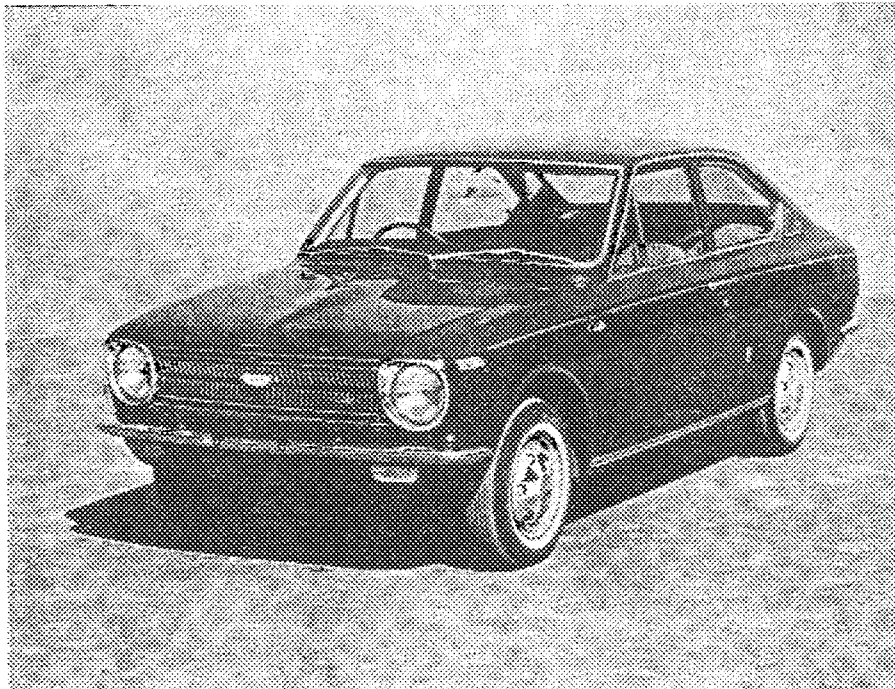
Model *Corolla Sprinter SL, KE15-S*

Manufacturer *Toyota Motor Co., Ltd.*

Manufacturer *Toyota Motor Co., Ltd.*

List *1968/10*

Photograph A, 3/4 view of car from front



法人 東京都港区芝公園第三号地一番五
機械振興会館内
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

KE15-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.

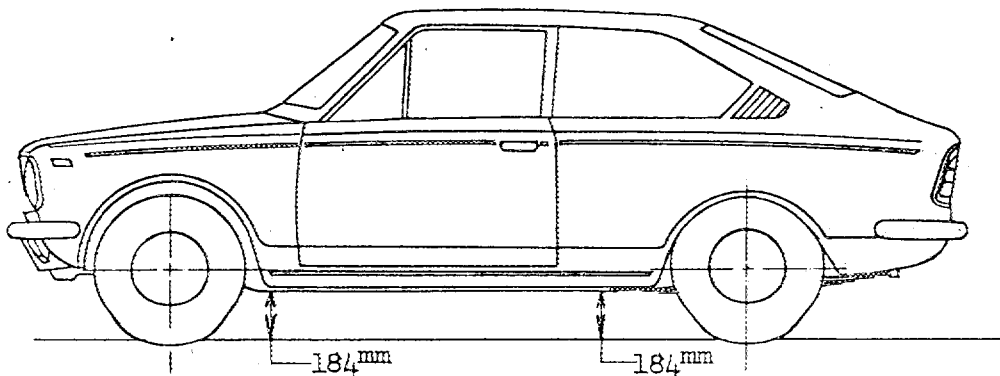
CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2285	mm	90.0	inches
2. <u>Front track</u>	1230	mm	48.4	inches *
3. <u>Rear track</u>	1220	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:				
	700	kg	1545	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 gr.	1 hundred weight (cwt)	—	50.802 kg

Make Toyota

Model KE15-S

F.I.A. Form No.

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)		mm	$1\frac{3}{4}$ in.	mm	$1\frac{1}{16}$ in.
Drum brakes					
95. Inside diameter		mm	in. 200	mm	
96. Length of brake linings		mm	in. 192	mm	
97. Width of brake linings		mm	in. 30	mm	
98. Number of shoes per brake				2	
99. Total area per brake		mm ²	sq. in. 115.2×10^2	mm ²	
Disc brakes					
100. Outside diameter	200	mm	in.	mm	
101. Thickness of disc	10	mm	in.	mm	
102. Length of brake linings	97	mm	in.	mm	
103. Width of brake linings	37	mm	in.	mm	
104. Number of pads per brake			2		
105. Total area per brake	61.0×10^2	mm ²	sq. in.	mm ²	

Make Toyota

Model KE15-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	61 mm
	2.95 in.		2.40 in.
135. Capacity per cylinder	269	cm ³	16.5
136. Total cylinder-capacity	1077	cm ³	65.8
137. Material (s) of cylinder block	Cast iron		
138. Material (s) of sleeves (if fitted)			
139. Cylinder-head, material (s)	Al.-cast	Number fitted	2
140. Number of inlet ports	4	141. Number of exhaust ports	4
142. Compression ratio	10.0		
143. Volume of one combustion chamber		29.9	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 / wound		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 (U.S.)
153. Oil cooler : XXXX / no		154. Method of engine cooling	Water
155. Capacity of cooling system	4.7 ltrs	pints	quarts (U.S.)
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
159. Connecting rod big end,	Plain	Dia.	42	mm

Weights

160. Flywheel (clean)	6.8	kg	lbs
161. Flywheel with clutch (all turning parts)		10	kg
162. Crankshaft	8.8	kg	lbs
163. Connecting rod		0.3	kg
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 **8.6** mm **0.34** in. 183. Number of valve springs **1**
 184. Type of spring **Coil** 185. Numbr of valves per cylinder **1**
 186. Tappet clearance for checking timing (cold) **0.1** mm
 187. Valves open at (with tolerance for tappet clearance indicated) **B.T.D.C. 18° ± 7°**
 188. Valves close at (with tolerance for tappet clearance indicated) **A.B.D.C. 58° ± 7°**
 189. Air filter, type **Dry**

EXHAUST (see page 8)

195. Material (s) of exhaust manifold **Cast iron**
 196. Diameter of valves **28** mm **1.1** inches
 197. Max. valve lift **8.9** mm **0.35** 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) **0.23** mm
 202. Valves open at (with tolerance for tappet clearance indicated) **B.B.D.C. 58° ± 7°**
 203. Valves close at (with tolerance for tappet clearance indicated) **A.T.D.C. 18° ± 7°**

CARBURETION (photograph N)

210. Number of carburetors fitted **2** 211. Type **Down draught**
 212. Make **Aisan** 213. Model **K-B**
 214. Number of mixture passages per carburetor **2**
 215. Flange hold diameter of exit port(s) of carburetor **28 & 28** mm
 216. Minimum dimensions of mixture pasage (s) ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~
19 & 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

*) for additional information concerning two-stroke engines and super-charged engines see page 13

Make **Toyota** Model **K155** P.L.A. No. **15**

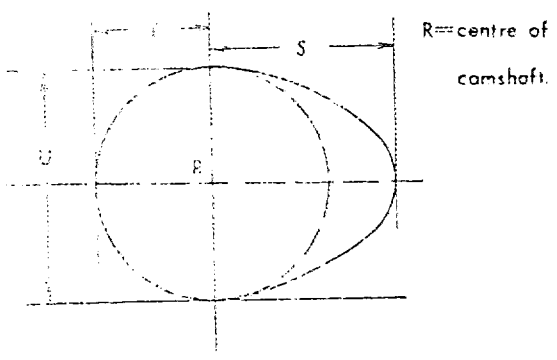
ENGINE CONDITIONS

230. Fuel pump : mechanical power	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 generator /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	73 PS (type of horsepower: JIS) at	6,500 rpm
251. Maximum rpm	6,700 output at that figure	72.9 PS
252. Maximum torque	9.0 kg-m at 4,600 rpm	
253. Maximum speed of the car	160 km/hour	miles / hour

255.



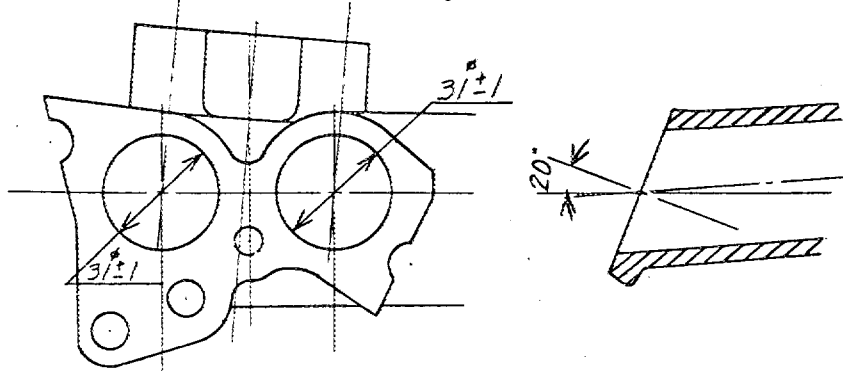
<u>Inlet cam</u>			
S =	21.3	mm	0.839
T =	15.5	mm	0.610
U =	31.0	mm	1.220
<u>Exhaust cam</u>			
S =	21.3	mm	0.839
T =	15.2	mm	0.598
U =	30.5	mm	1.200

Make Toyota

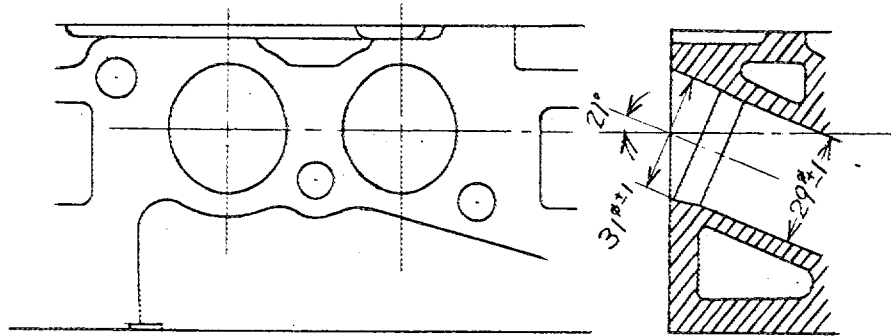
Model KEI5-S

F.I.A. Rec. No.

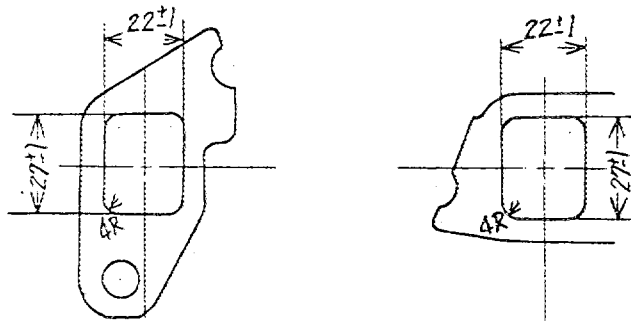
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



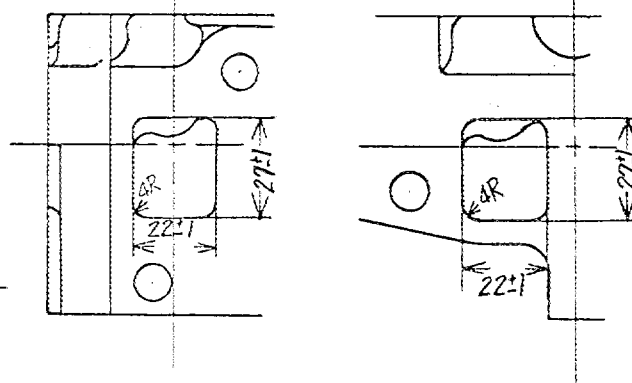
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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**

Model **KK15-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

KEL5-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 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.

Make

Toyota

Model

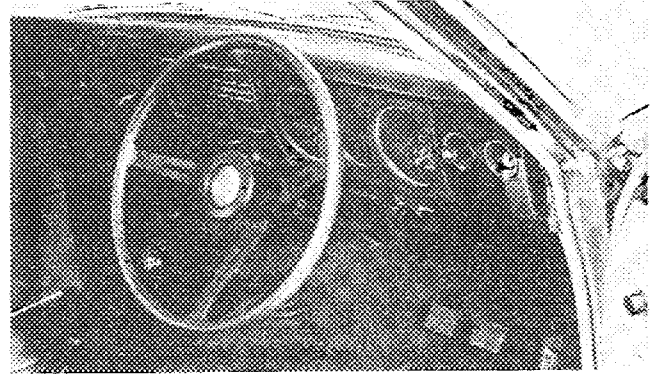
KE15-S

F. I. A. Rec. No.

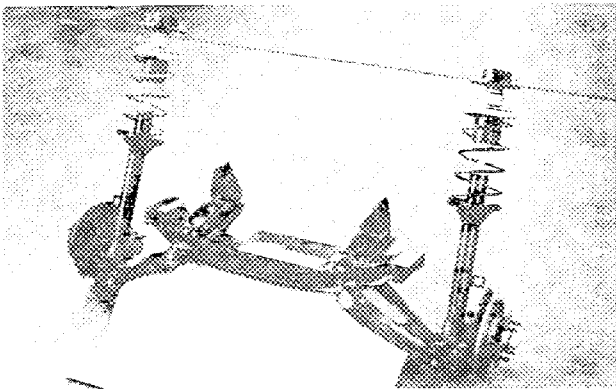
Photograph

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

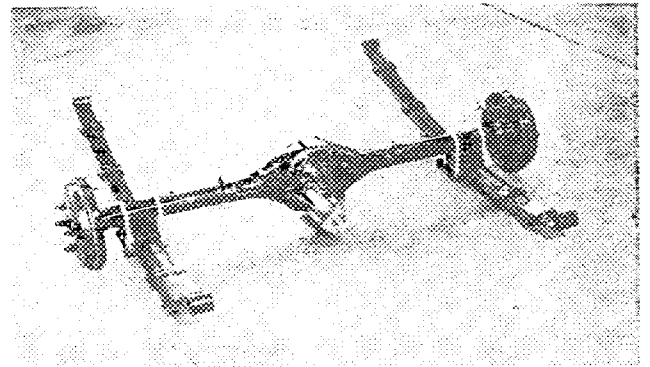
B, 3/4 view of car from rear



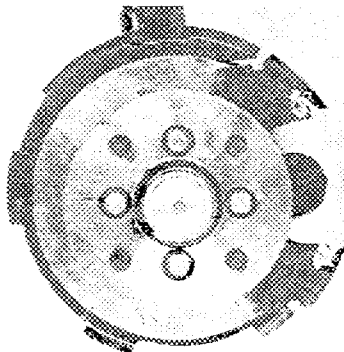
D, front axle complete, removed from car. Without wheels.



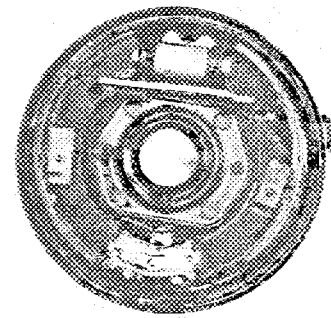
E, Rear axle complete without wheels, removed from car.



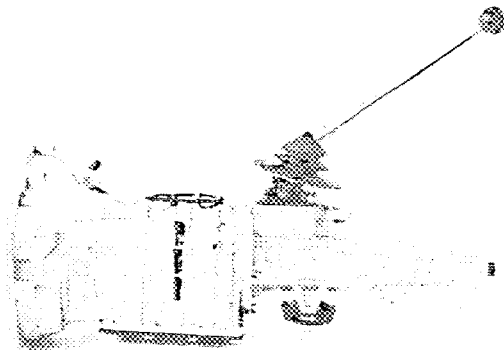
F, front brake. drum removed or disc with calipers!



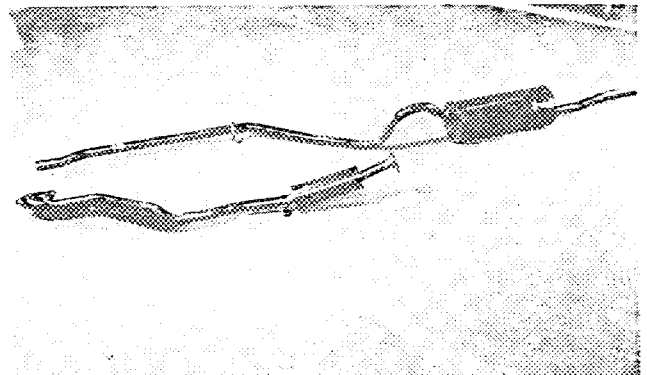
G, rear brake. drum removed or disc with calipers!



H, gear-box, view from side



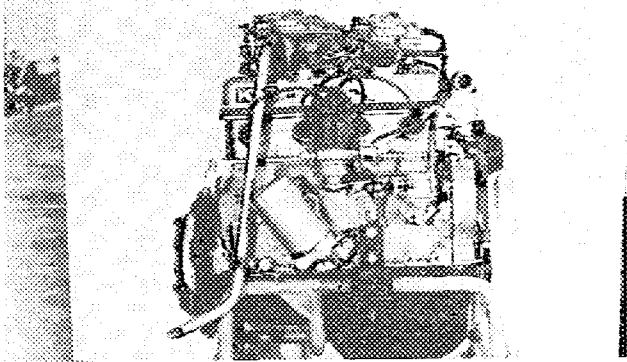
I, silencer + exhaust pipes after exhaust manifold.



Make

Toyota

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

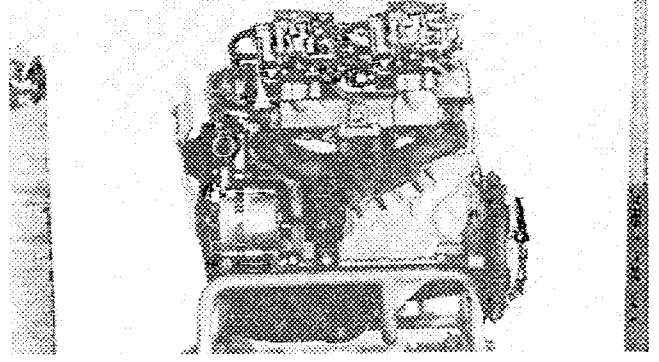


Model **KEL5-S**

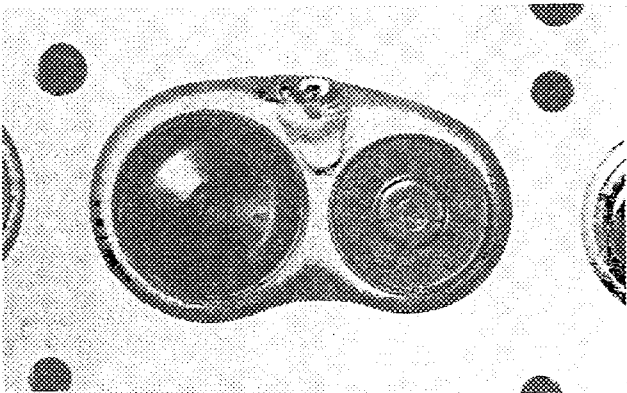
F. I. A. Rec. No

Photograph

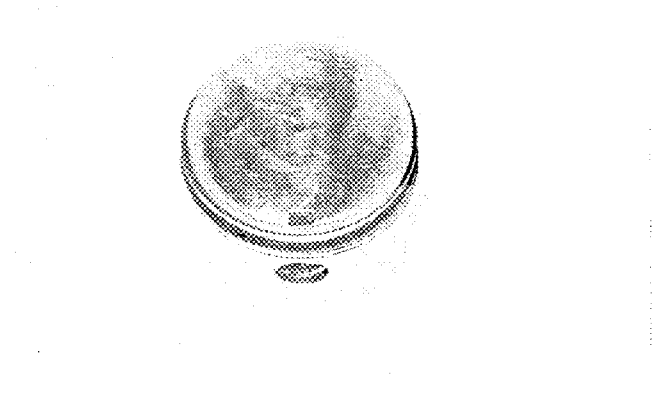
Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



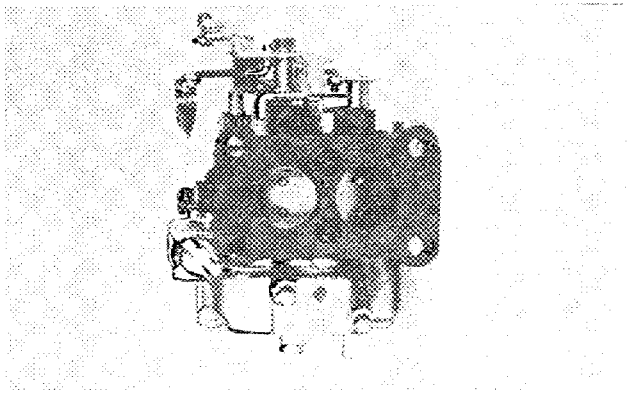
L, combustion chamber



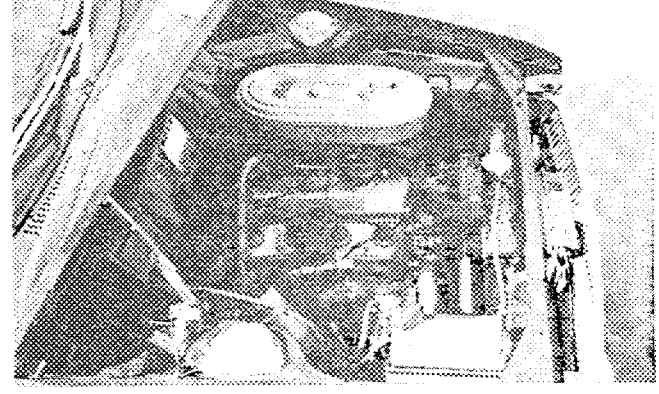
M, piston crown



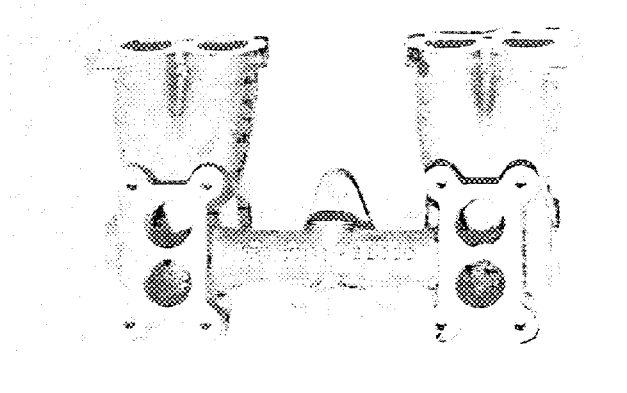
N, Carburettor (view from side of manifold)



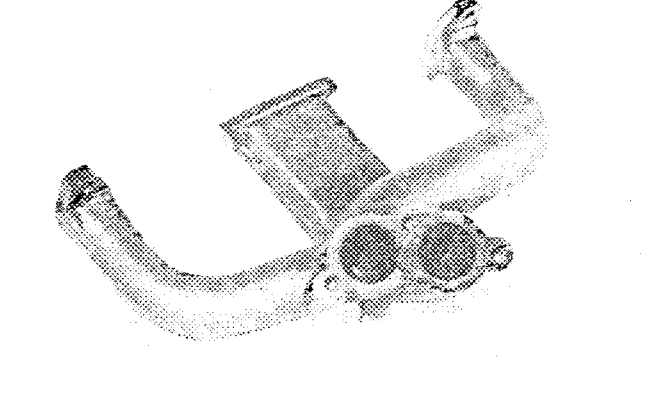
O, engine in car with all accessories, bonnet open or removed.



P, inlet manifold



Q, exhaust manifold





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

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

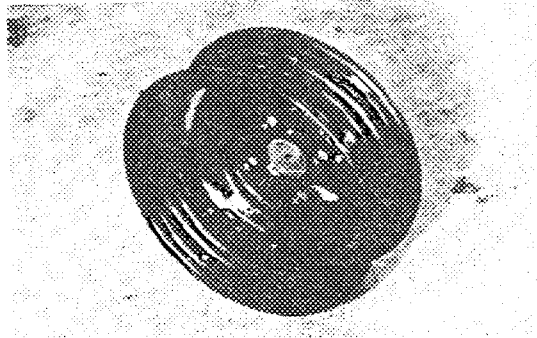
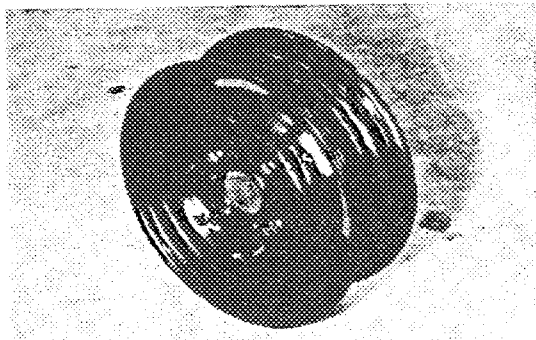
Original FIA recog. No. 1542 5306/1/1V

Make Toyota Motor Co., Ltd. Model Corolla Sprinter SL, KE15-S
Modification's application starts with serial No. chassis KE15-100001
Application of this amendment started the 10th April, 1968 engine K-100001
Commercial denomination after application of modifications
The modifications are to be considered as: Variant / ~~variant~~
Date amendment is valid from 1st Sept. 69 List 69/6

Description of amendment

The disc wheels written below is only valid for the cars competing as group 2 or 5.

- 50. Type: Pressed steel
51. Weight:(per wheel, without tyre) 5.8 Kg
52. Method of attachment: 4 Nuts
53. Rim diameter: 329 mm 13 inches
54. Rim width: 114 mm 4.5 inches



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

Stamp and signature of National Sporting Authority

Stamp and signature of F.I.A.

JAPAN AUTOMOBILE FEDERATION

Chairman

of Technical Sub-commission

Handwritten signature of Yasuharu Nanba

Yasuharu Nanba

