



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. **1581**
Group **2**

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 **KE17-000001**

Serial No of engine **3K 0000001**

Recognition is valid from **1/1/70**

Cylinder-capacity **1166** cm³ **71.1** cu. in.

Model **Corolla Sprinter SL, KE17-S**

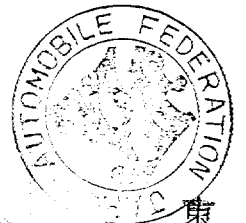
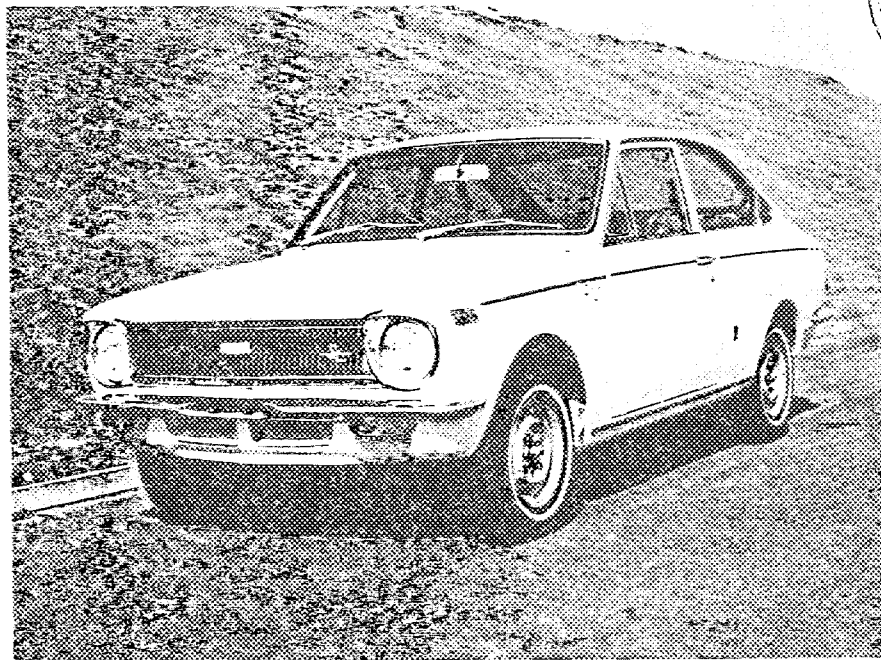
Manufacturer **Toyota Motor Co., Ltd.**

Manufacturer **Toyota Motor Co., Ltd.**

List **70/1**

The manufacturing of the model described in this recognition form was started on **August 19 69** and the minimum production of **1000** identical cars, in accordance with the specifications of this form was reached on **August 19 69**

Photograph A, 3/4 view of car from front



東京都港区芝公園第三丁目一番五
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 :

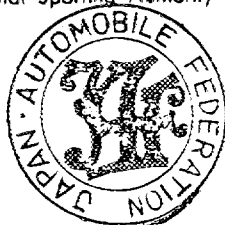
Variants

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.

Stamp and signature of the F. I. A.

Make **Toyota**

Model **KE17-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.

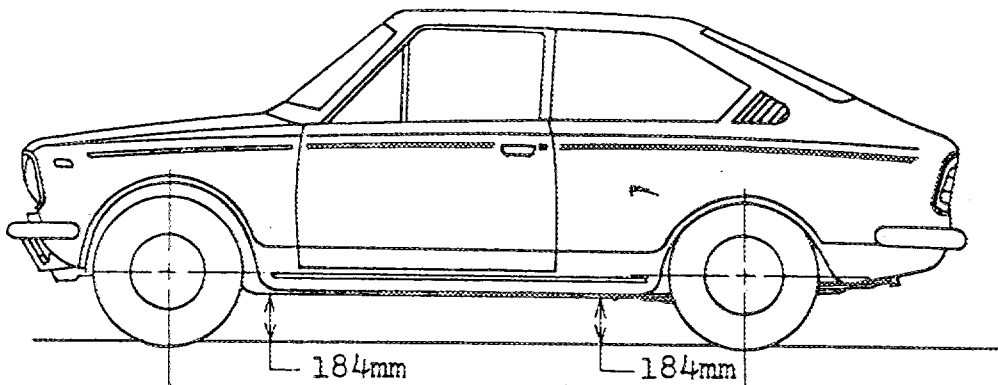
CAPACITIES AND DIMENSIONS

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				
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 for the wheels concerned.

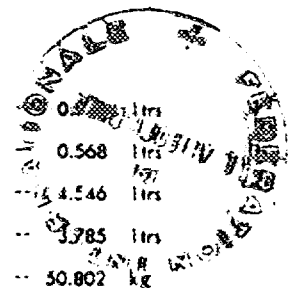
Specify ground clearance in relation to the track and give drawing of two fixed points of the vehicle's structure at which measurements are taken.

These ground clearance dimensions are only for information when checking the track and can in no way effect the eligibility of the car.



CONVERSION TABLE

1 inch / pouce	-- 2.54 cm	1 quart US
1 foot / pied	-- 30.4794 cm	1 pint (pt)
1 square inch / pouce carré	-- 6.452 cm ²	1 gallon Imp.
1 cubic inch / pouce cube	-- 16.387 cm ³	1 gallon US
1 pound / livre (lb)	-- 453.593 gr.	1 hundred weight (cwt)



Make Toyota

Model KE17-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 : XXX- no
39. Air-conditioning : ~~XXX~~ - 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 :
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 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 : ~~XX~~ - no
62. Number of turns of steering wheel from lock to lock : 3
63. In case of servo-assistance



Make Toyota

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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	1		1	
94. Bore of wheel cylinder (s)	44.45 mm	in.	17.46 mm	in.
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.	115x10 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.



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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	66 mm
	2.96 in.		2.60 in.
135. Capacity per cylinder	291		17.8
			71.1
136. Total cylinder-capacity	1166		
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 / XXXX		148. Type of crankshaft :	integral / XXXX
149. Number of crankshaft main bearings	5		
150. Material of bearing cap	Cast iron		
151. System of lubrication : XXXX / oil in sump			
152. Capacity, lubricant	3.5	litrs	pts
			quarts US
153. Oil cooler : XXX / no			
154. Method of engine cooling	Water		
155. Capacity of cooling system	4.7	litrs	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	lbs
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 rood & 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. Numbr 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. $50^{\circ} \pm 2.5^{\circ}$
 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 carbureteor 28 & 28 mm in.
 216. Minimum dimensions of mixture pasage (s) ~~XXXXXXXXXXXXXXXXXXXXXXXX~~
 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.



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F. I. A. Rec. No

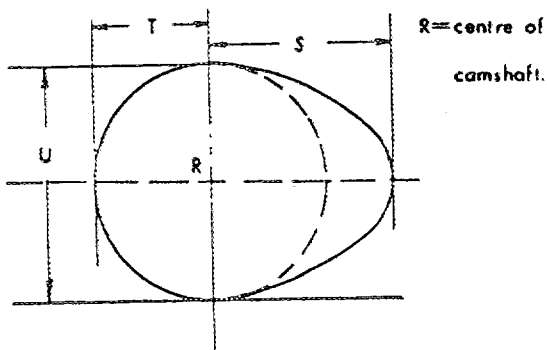
ENGINE ACCESSORIES

- | | | |
|---|--------------------------------------|--------|
| 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 | 235. No. of spark plugs per cylinder | 1 |
| 236. Generator, type XXXXXX / alternator - number fitted | 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 PERFORMANCE (as declared by manufacturer in catalogue)

- | |
|--|
| 250. Max. engine output 77 PS (type of horsepower: JIS) at 6600 rpm |
| 251. Maximum rpm 6700 output at that figure 76.5 PS |
| 252. Maximum torque 9.6 kg-m at 4600 rpm |
| 253. Maximum speed of the car 160 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

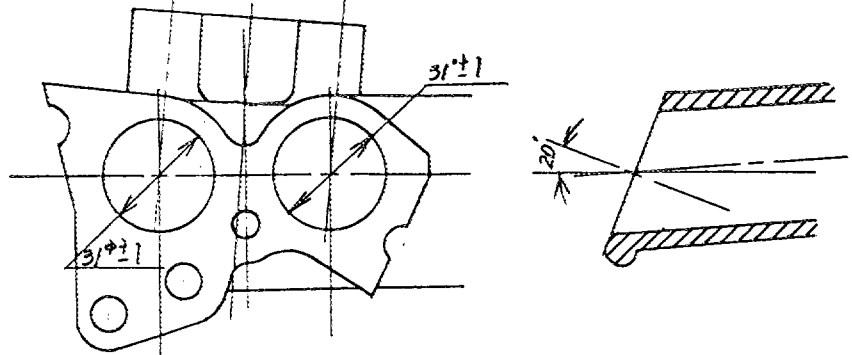


Make Toyota

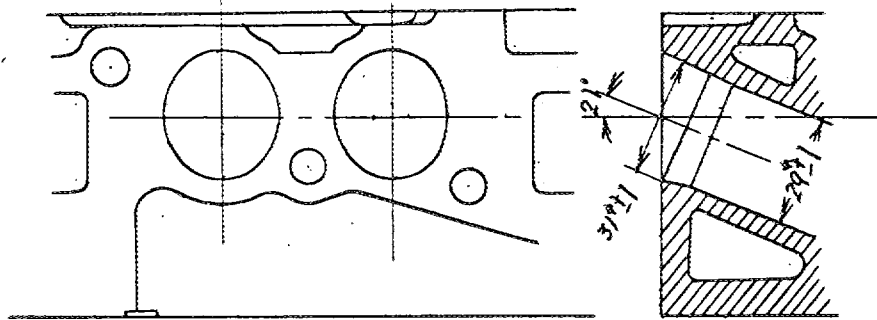
Model KE17 - S

F. I. A. Rec. No

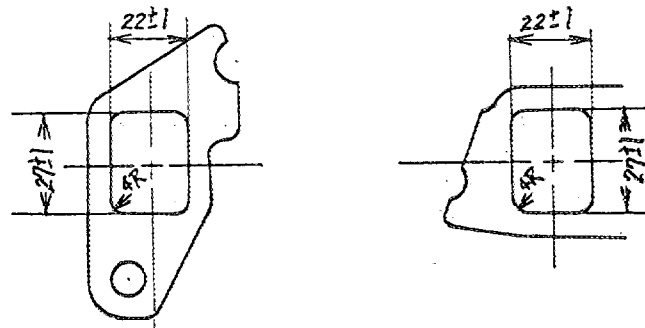
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



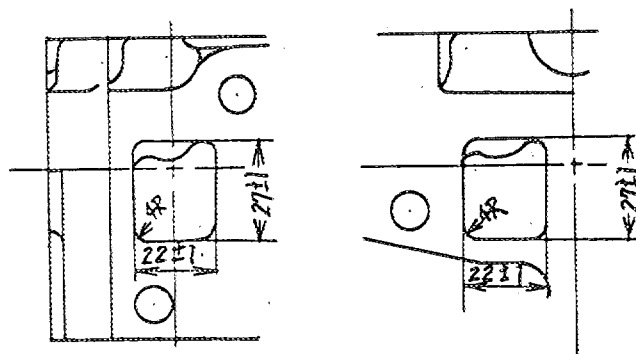
Drawing of entrance to inlet part of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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



Drawing of exit to exhaust part of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



Unit: mm



Make Toyota

Model KE17-S

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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)

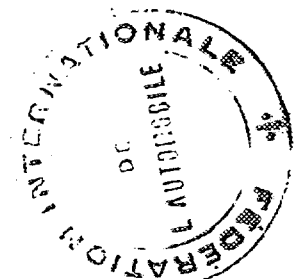
270. Manual type, make Toyota Method of operation Mechanical
 271. No. of gear-box ratios forward 4 272. Synchronized forward ratios 1, 2, 3 & 4
 273. Location of gear-shift Floor
 274. Automatic, make type
 275. No. of forward ratios 276. Location of gear-shift

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 KE17-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 preceding information. This to be stated together with reference number.



Make: Toyota

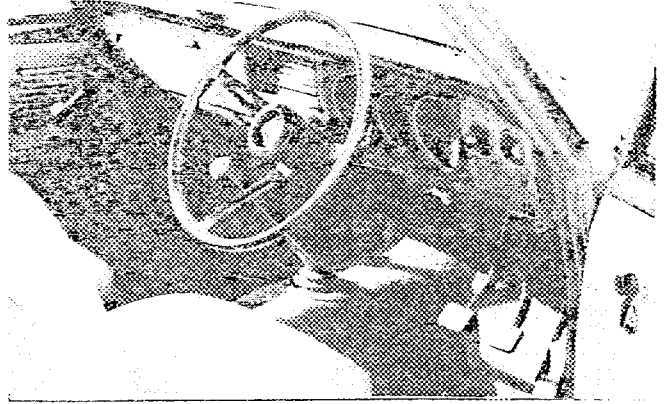
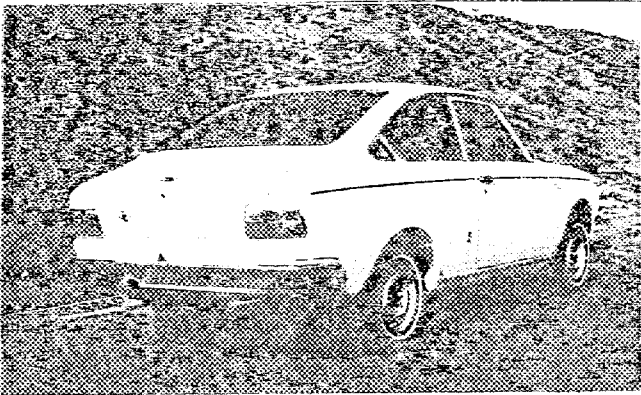
Model: KE17-S

F.I.A. Rec. No.

Photograph

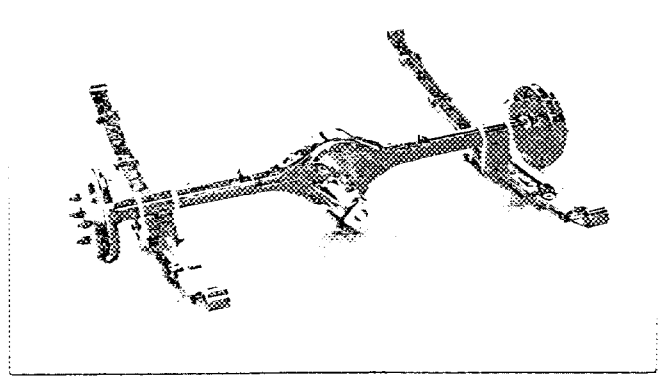
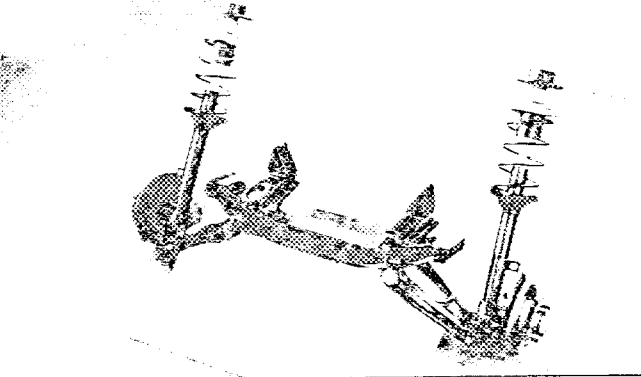
Interior view of car through driver's door (open or removed)
C. Dashboard

B, Side view of car from rear



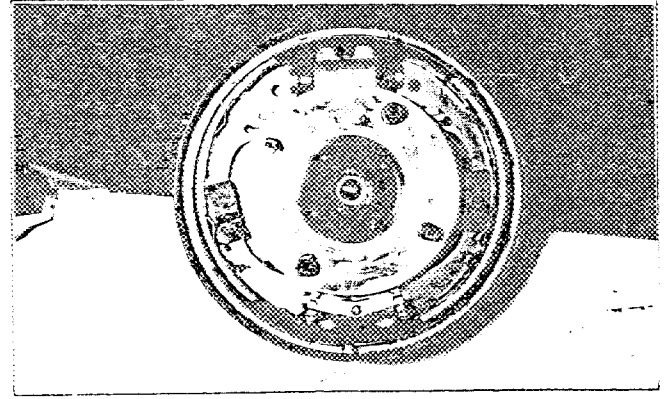
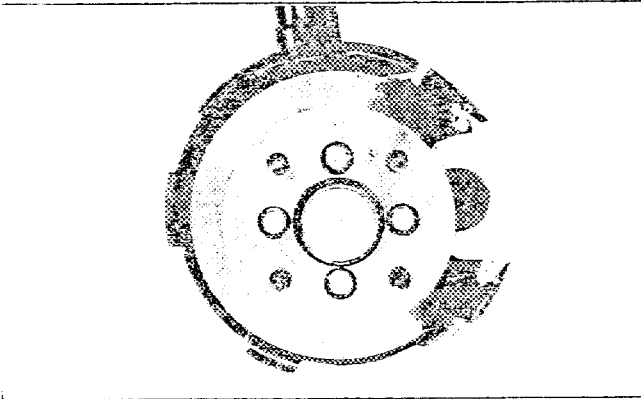
D, front axle complete, removed from car. (Without wheels)

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



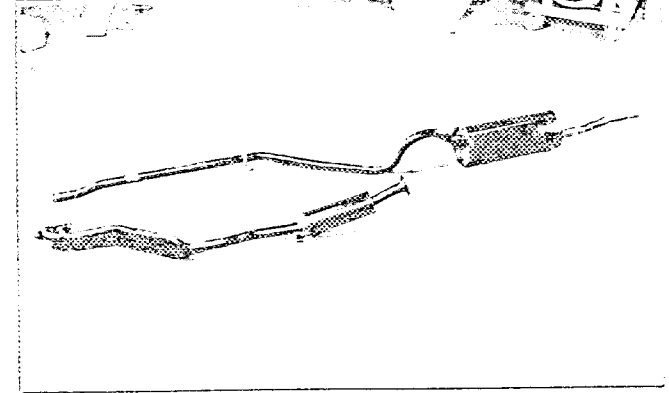
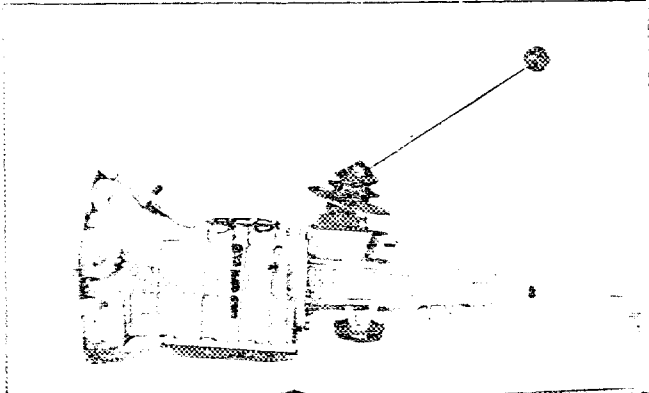
F, front brake, drum removed or disc with caliper(s)

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

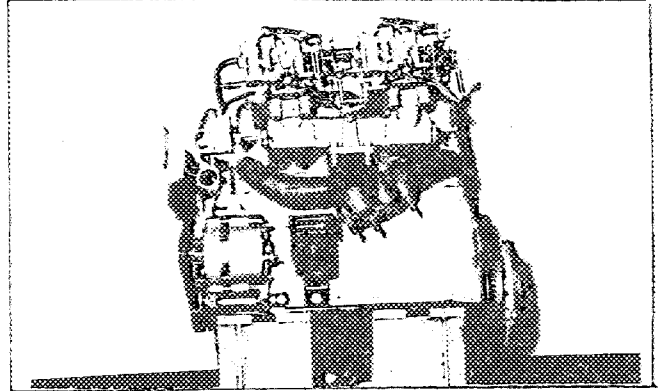
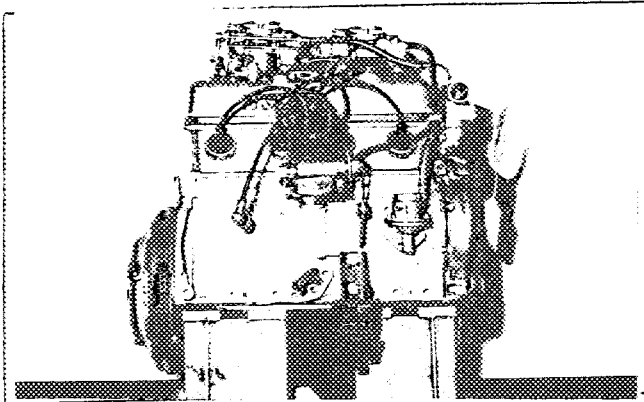
Model KE17-S

F.I.A. Rec. No

Photograph

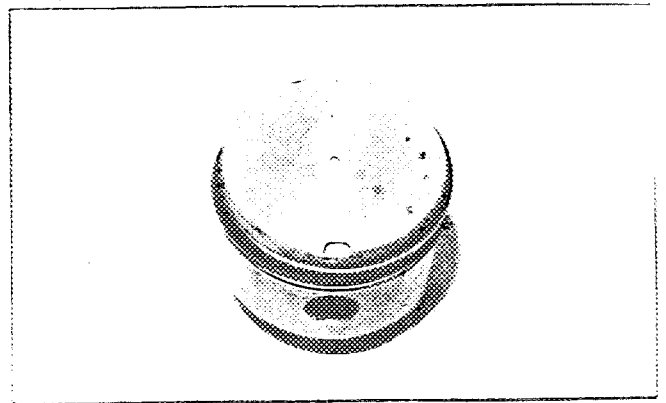
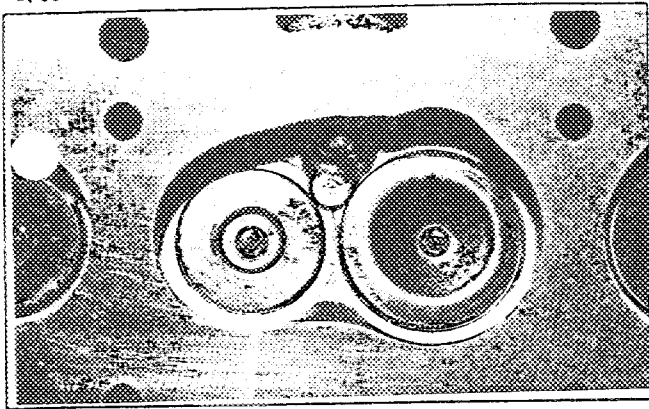
J. engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.

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



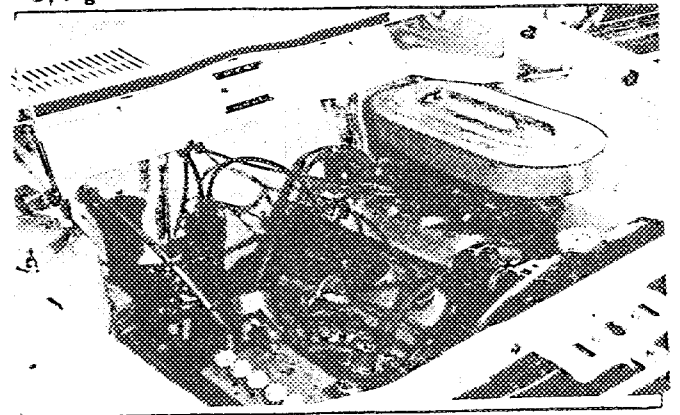
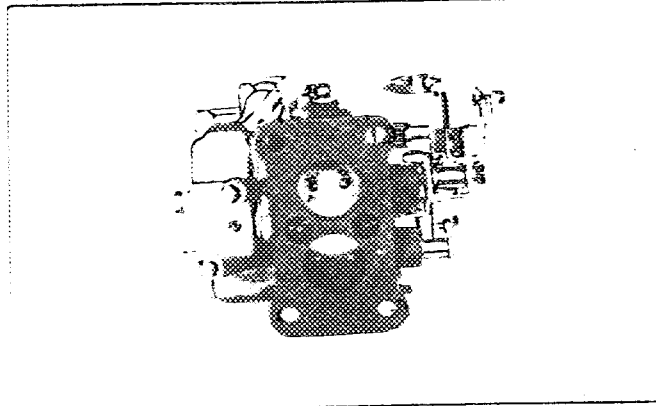
L. combustion chamber

M. piston crown



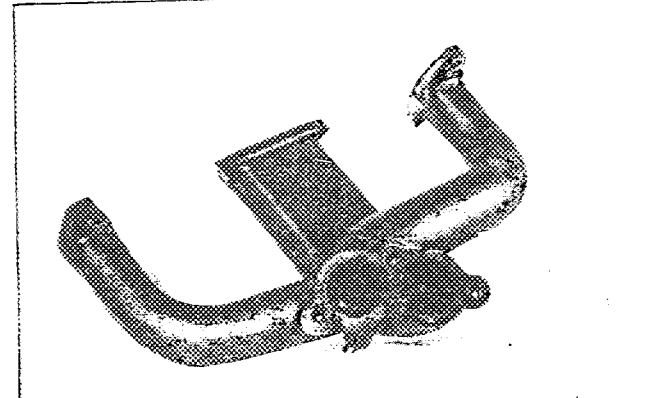
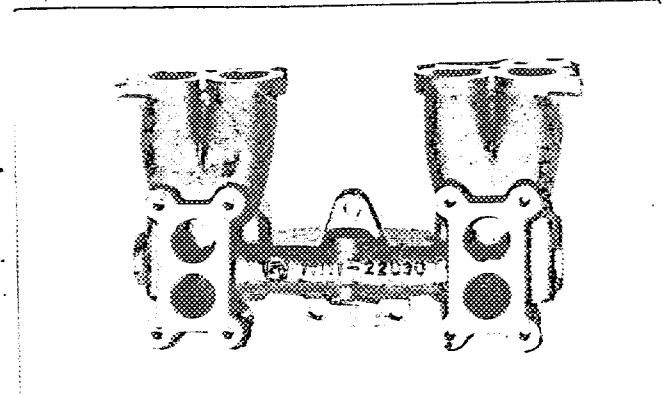
N. Carburettor (view from side of manifold)

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



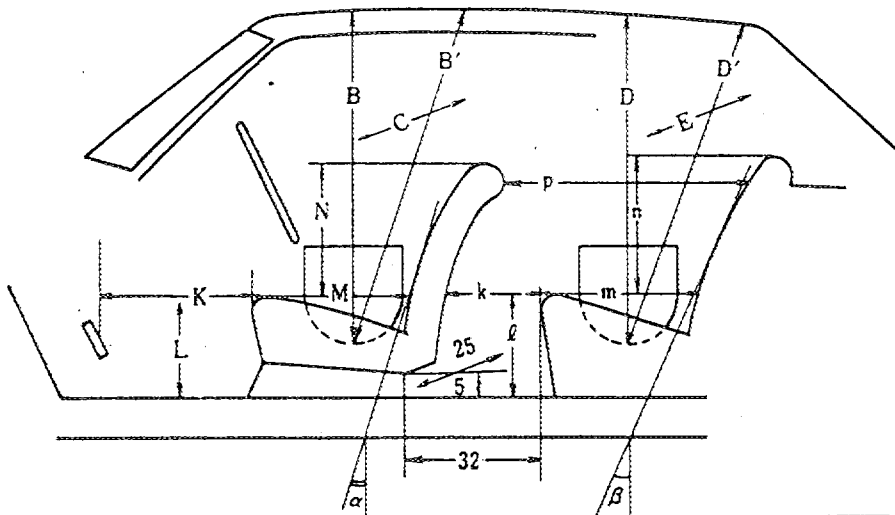
P. inlet manifold

Q. exhaust manifold



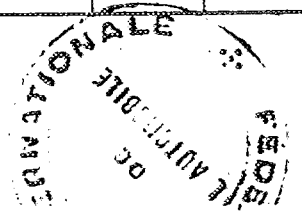
DIMENSIONS OF INTERIOR
(Conform to Art. 253 b of Appendix J)

For four seaters:



Minimum Dimensions (cm)							
B	B'	α	C	D	D'	β	E
90.5	98.0	19°	124.0	92.5	92.0	17°	124.5

Minimum Dimensions (cm)										
L	l	M	m	N	n	k+m	p	k	k+l+m	K+L+M
30.5	31.5	45.5	43.5	46.5	42.0	65.0	60.0	21.5	96.5	121.0
0.9L - 27.5		0.85M - 38.5		0.8N - 37.0		0.8(k+m) - 52.0		(15)	(95)	(120)



Make Toyota

Model KE17-S

F. I. A. Rec. No.

TWO STROKE ENGINES

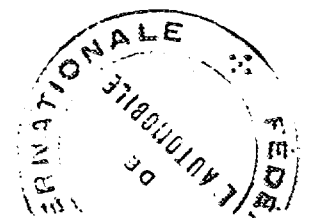
300. System of cylinder scavenging				
301. Type of lubrication				
302. Inlet ports, length measured around cylinder wall	mm			inches
303. Height inlet port	mm	in.	304. Area	mm ² sq. in.
305. Exhaust ports, length measured around cylinder wall	mm			inches
306. Height exhaust port	mm	in.	307. Area	mm ² sq. in.
308. Transfer port, length measured around cylinder wall	mm			inches
309. Height transfer port	mm	in.	310. Area	mm ² sq. in.
311. Piston ports, length measured around piston	mm			inches
312. Height piston port	mm	in.	313. Area	mm ² 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. <u>Drawing of cylinder ports.</u>				

330. Supercharging—state full details hereafter :

JAPAN AUTOMOBILE FEDERATION

難波清治

Yasuharu Nanba





NOT VALID FOR GROUP 1 ONLY

JAPAN AUTOMOBILE FEDERATION

F.I.A. Homol. No

Original FIA Recog.

No. 1581/1/1/15

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 SL,

Modification's application starts with serial No. chassis KE17-000001
engine 3K 0000001

KE17-S

Application of this amendment started the 1st January, 1971

Commercial denomination after application of modifications

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

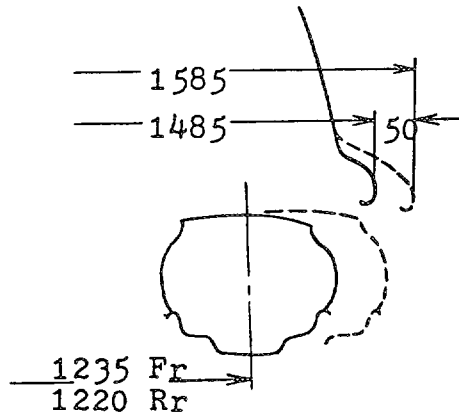
Date amendment is valid from 1/4/71 List 7A/1A

Description of amendment

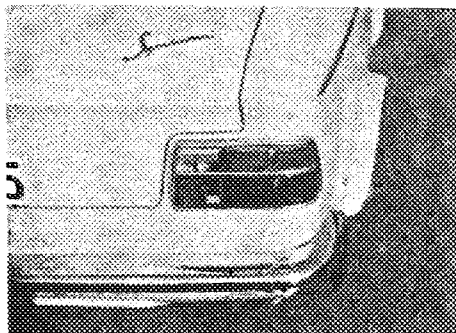
Wing extensions



Front



Center
of original rim



Rear

Unit ; mm

Stamp and signature of
National Sporting Authority

Stamp and signature of F.I.A.

JAPAN AUTOMOBILE FEDERATION

三井平八郎

Heihachiro Mitsui