



# JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No.

5318

Group *A*

## FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer Toyota Motor Co., Ltd.

chassis KE17-000001

Serial No. of engine 3K 0000001

Recognition is valid from 1/1/70

Cylinder-capacity 1166 cm<sup>3</sup> 71.1 cu. in.

Model Corolla Sprinter, KE17

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 5000 identical cars, in accordance with the specifications of this form was reached on Sept. 1969

Photograph A, 3/4 view of car from front



東洋自動車工業株式会社  
東京都港区三丁目二番二地

The vehicle described in this form has been subject to the following amendments

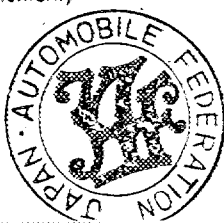
### Variants

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

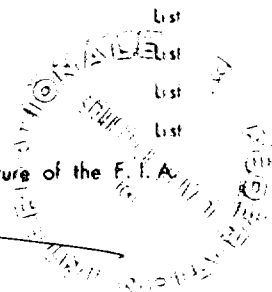
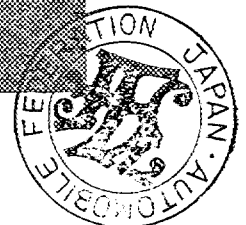
### Normal evolution of the type

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 KE17

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

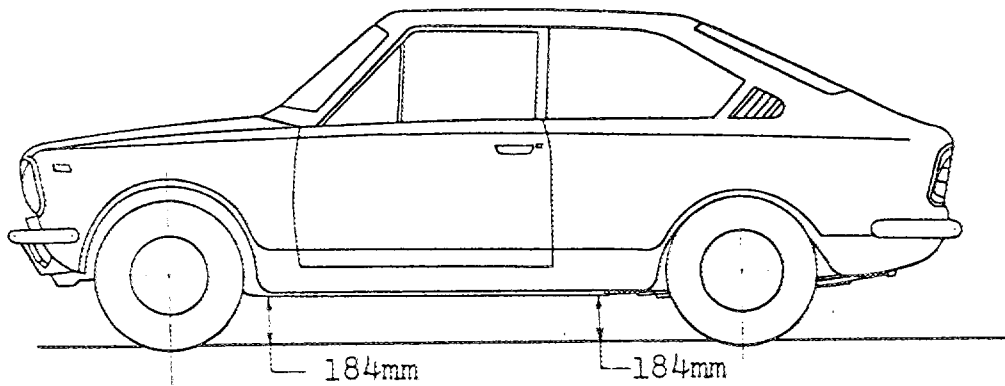
CAPACITIES AND DIMENSIONS

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:				
	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.

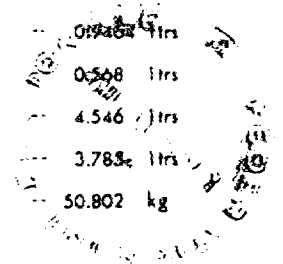
Specify ground clearance in relation to the track and give drawing of two fixed points of the vehicle's structure at which measurements are taken.

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)	--	0.508 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



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

- 20. Chassis/body construction : ~~XXXXX~~ / 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**

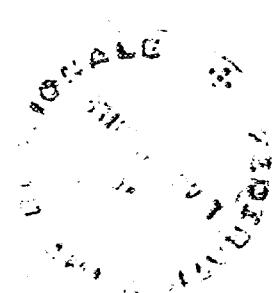
- 38. Interior heating : ~~XXX~~ - no
- 39. Air-conditioning : ~~XXX~~ - no
- 40. Ventilation : yes - ~~XXX~~
- 41. Front seats, type of seats and upholstery Separate, Vinyl leather
- 42. Weight of front seat (s), complete with supports and rails, out of the car :  
12.6 x 2 kg lbs
- 43. Rear seats, 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 : ~~XXX~~ - 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	2		2	
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				
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 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 <sup>3</sup>
			17,8
136. Total cylinder-capacity	1166		cm <sup>3</sup>
			71,1
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 / <del>xxxxx</del>		148. Type of crankshaft :	integral / <del>xxxx</del>
149. Number of crankshaft main bearings	5		
150. Material of bearing cap	Cast iron		
151. System of lubrication : <del>dry sump</del> / oil in sump			
152. Capacity, lubricant	3.5	litrs	pts
			quarts US
153. Oil cooler : <del>yes</del> / 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	8.0	kg	lbs
163. Connecting rod	0.47	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 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.  $50^{\circ} \pm 2.5^{\circ}$   
 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 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.



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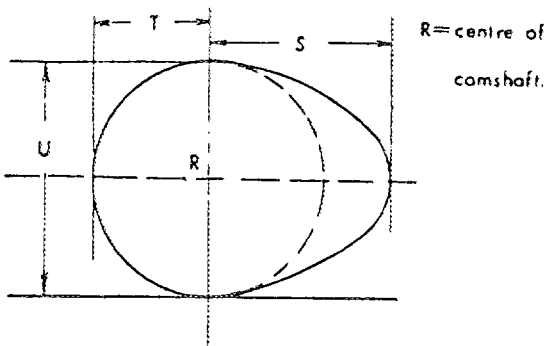
ENGINE ACCESSORIES

- 230. Fuel pump : mechanical and / ~~or electric~~ ~~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 68PS (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 150 km/hour miles / hour

255.



Inlet cam

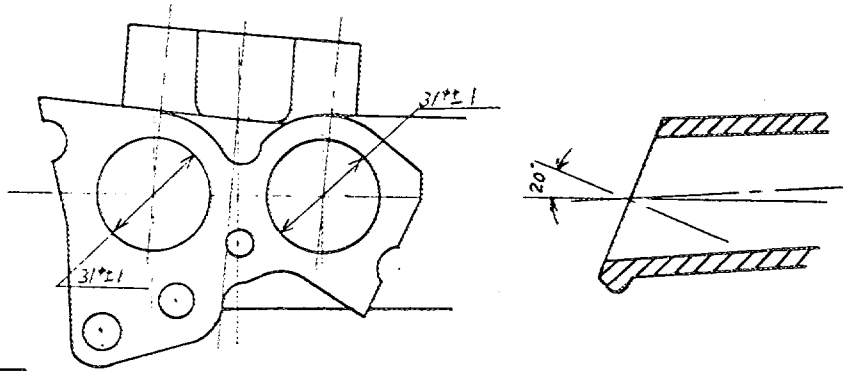
S =	21.1	mm	0.831	inches
T =	15.4	mm	0.607	inches
U =	30.8	mm	1.214	inches

Exhaust cam

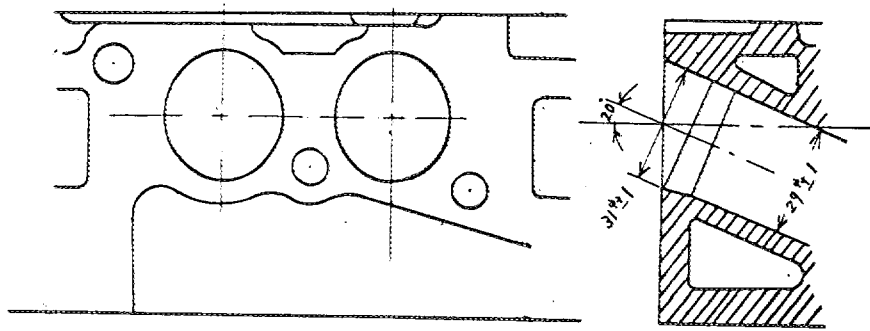
S =	21.2	mm	0.835	inches
T =	15.2	mm	0.599	inches
U =	30.4	mm	1.198	inches



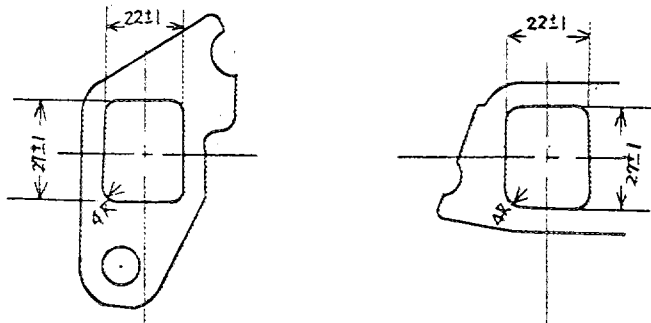
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



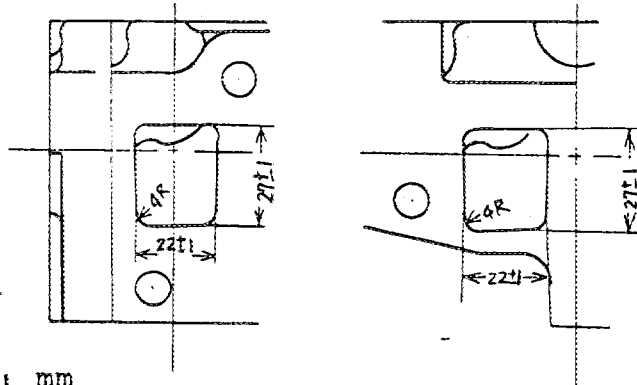
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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 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



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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 L, 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	:	$61.0 \times 10^2$	$\text{mm}^2$

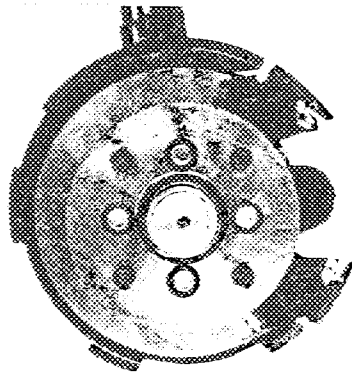
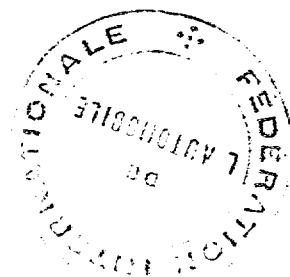


Photo E disc with caliper (s)  
front brake



Make Toyota

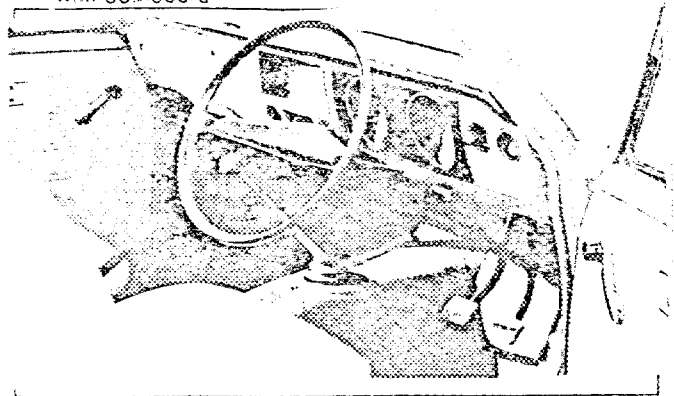
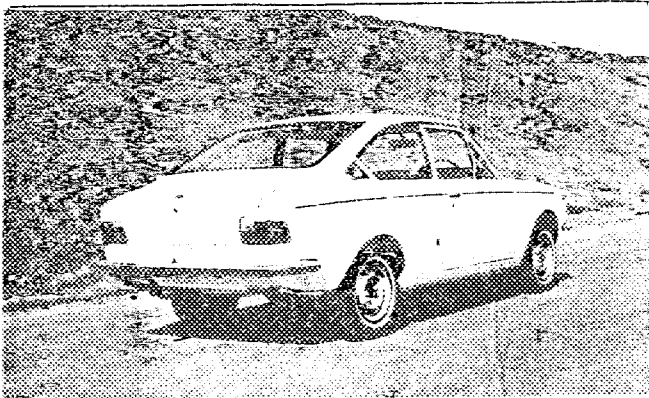
Model KE17

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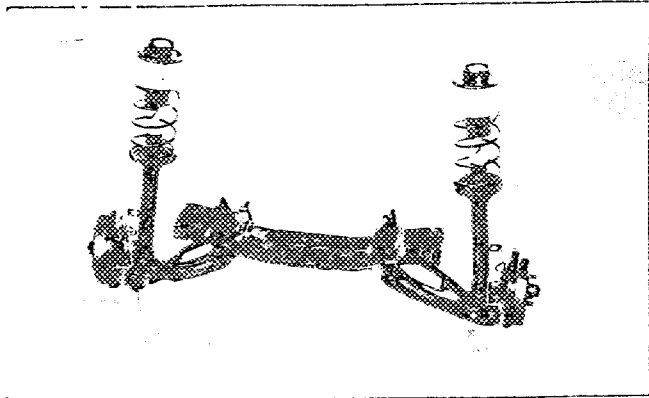
Photograph

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

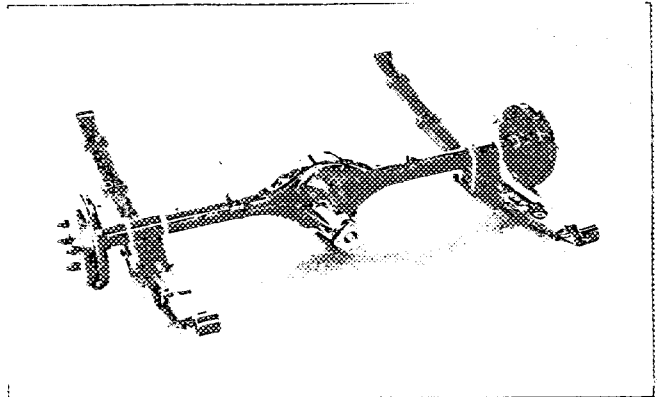
B, 3/4 view of car from rear



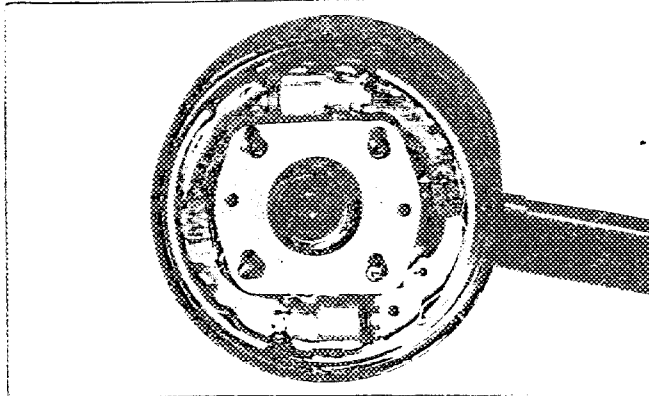
D, front axle complete, removed from car. Without wheels



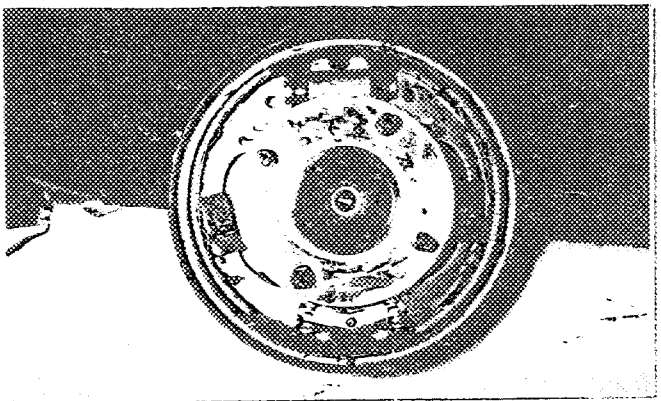
E, Rear axle complete without wheels, removed from car.



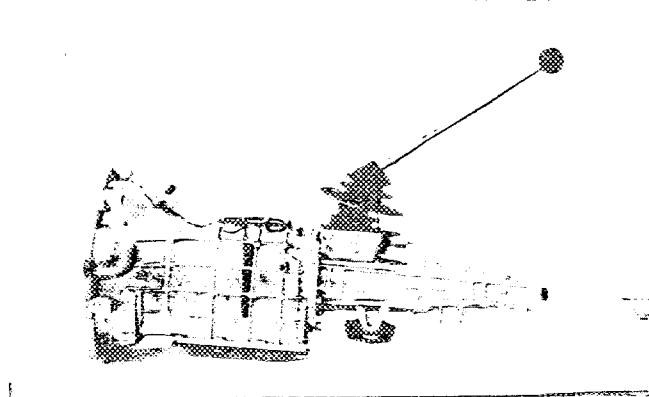
F, front brake, drum removed or disc with calipers



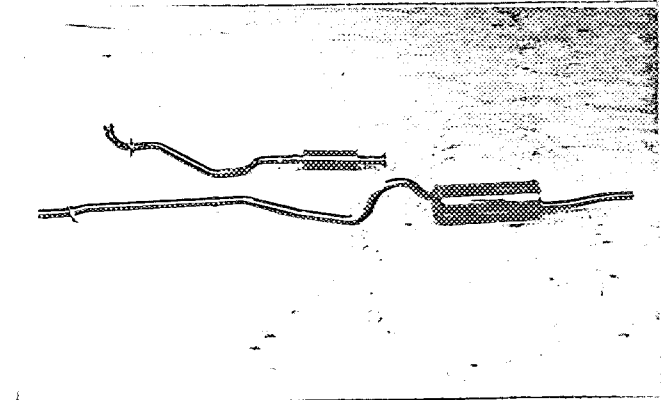
G, rear brake, drum removed or disc with calipers



H, gear-box, view from side



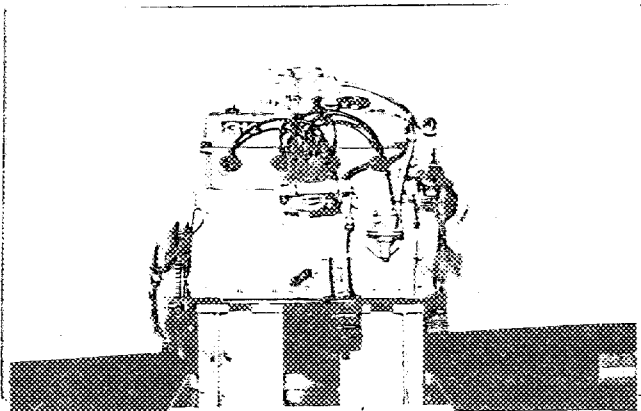
I, silencer + exhaust pipes after exhaust manifold



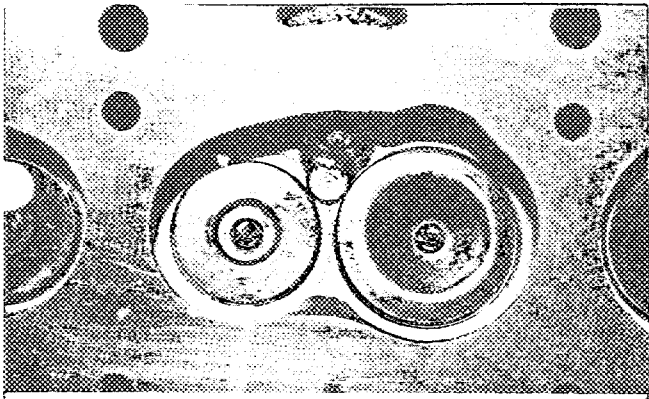
Make

Toyota

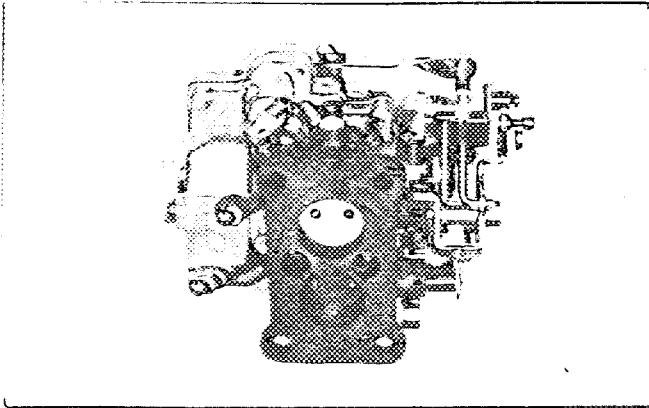
engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.



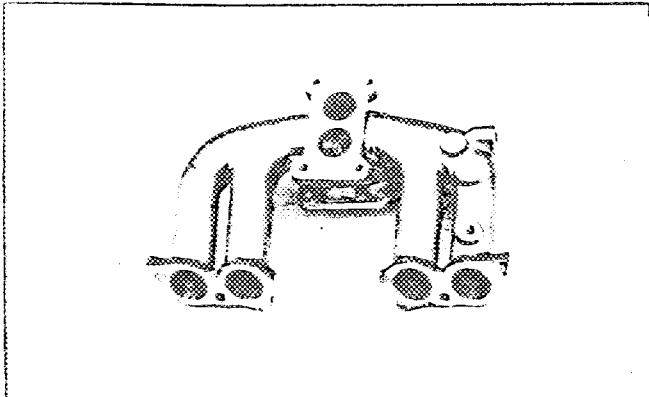
L, combustion chamber



N, Carburettor (view from side of manifold)



P, inlet manifold



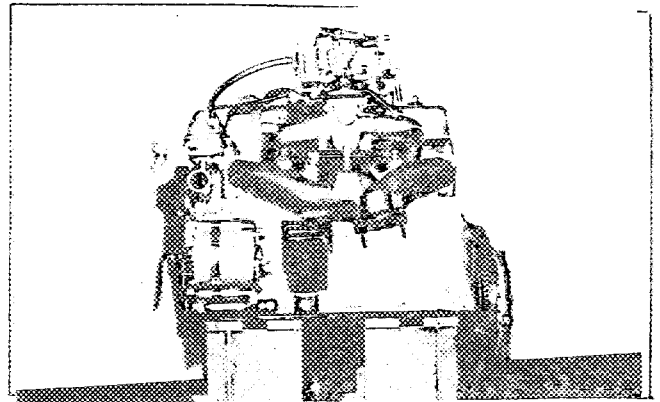
Photograph

Model

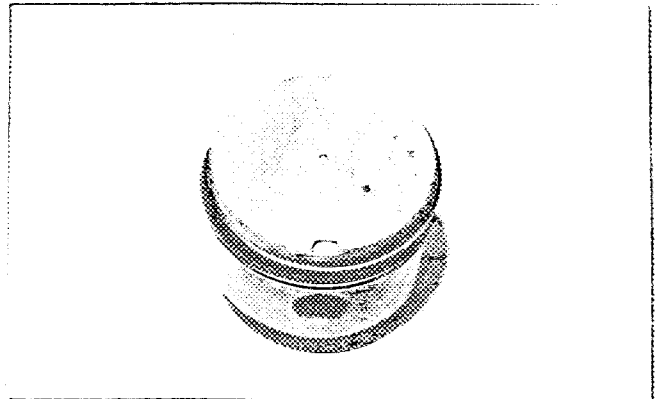
KE17

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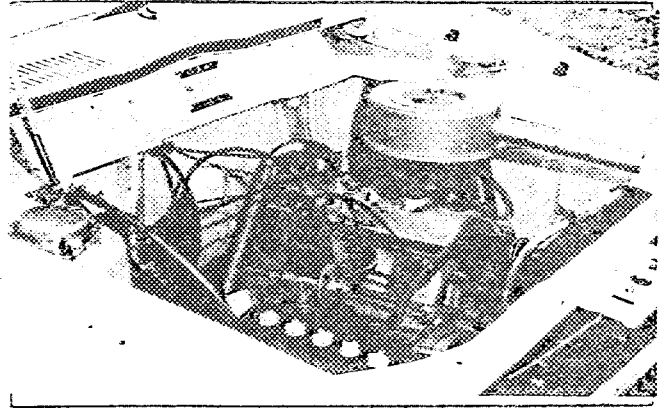
Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



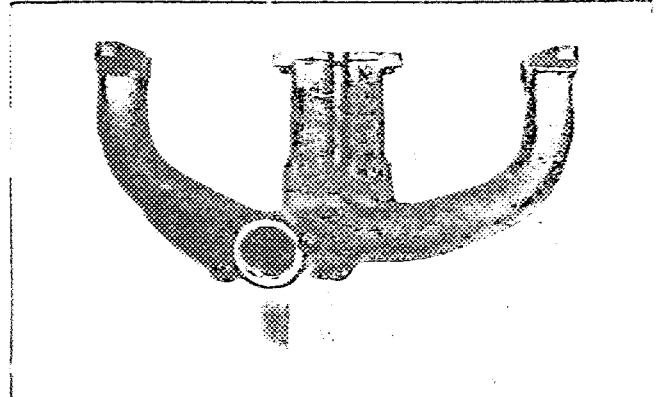
M, piston crown



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

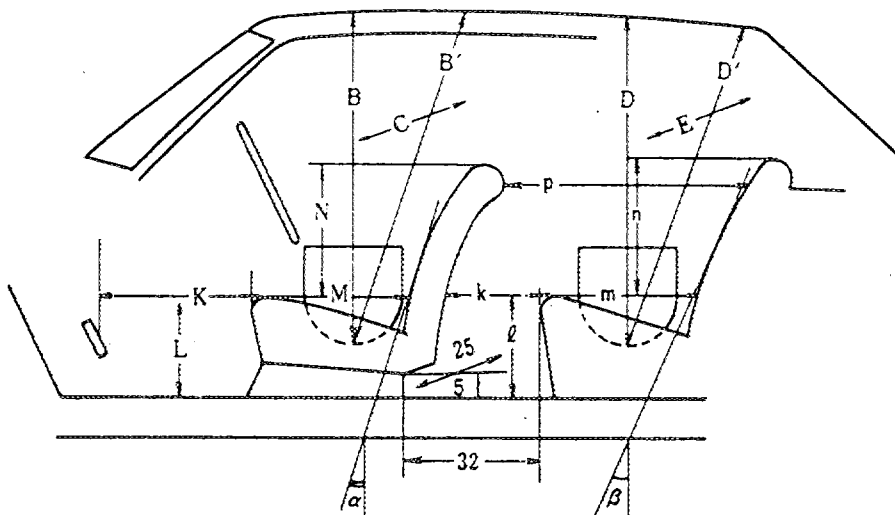


Q, exhaust manifold



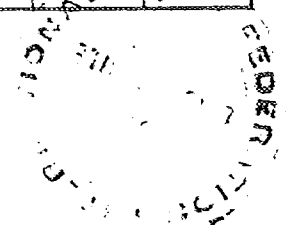
DIMENSIONS OF INTERIOR  
(Conform to Art. 253 b of Appendix J)

For four seaters:



Minimum Dimensions (cm)							
B	B'	$\alpha$	C	D	D'	$\beta$	E
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

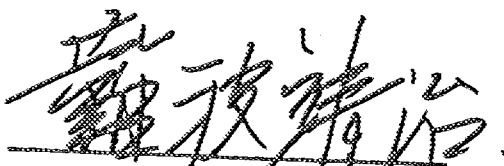
F.I.A. Rec. No.

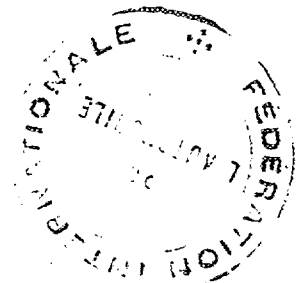
TWO STROKE ENGINES

- 300. System of cylinder scavenging
- 301. Type of lubrication
- 302. Inlet ports, length measured around cylinder wall
- 303. Height inlet port
- 304. Area
- 305. Exhaust ports, length measured around cylinder wall
- 306. Height exhaust port
- 307. Area
- 308. Transfer port, length measured around cylinder wall
- 309. Height transfer port
- 310. Area
- 311. Piston ports, length measured around piston
- 312. Height piston port
- 313. Area
- 314. Method of precompression
- 315. Precompression cyl.: yes/no
- 316. Bore
- 317. Stroke
- 318. Distance from top of cyl. block to highest point of exhaust port :
- 319. Distance from top of cyl. block to lowest point of inlet port :
- 320. Distance from top of cyl. block to highest point of transfer port :
- 321. Drawing of cylinder ports.

330. Supercharging—state full details hereafter :

JAPAN AUTOMOBILE FEDERATION

  
 Yasuharu Nanba





NOT VALID FOR GROUP 1 ONLY

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

Original FIA Recog.  
No. 5319/1/1V-Gr II-

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, KE17

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

Application of this amendment started the 1st January, 1971

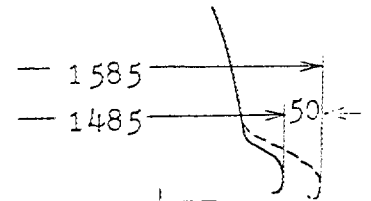
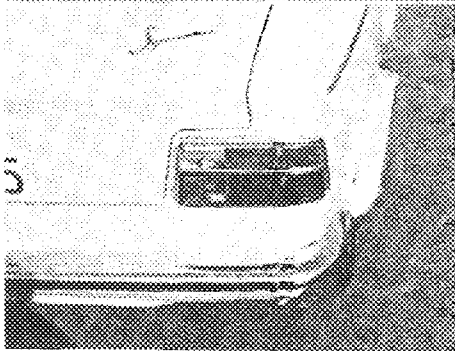
Commercial denomination after application of modifications

The modifications are to be considered as: Variant / ~~normal exception of the code~~

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

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 Mitsu-

Stamp and signature of F.I.A.