JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. 1543
Group 2 - Touring

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 **KE10-100001**
engine **K - 100001**

Recognition is valid from 1st November 1968

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

Model **Toyota Corolla w/disc brake, KE10(D)**

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

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

List 1968/10

The manufacturing of the model described in this recognition form was started on **April** 19**68** and the minimum production of 1000 identical cars, in accordance with the specifications of this form was reached on **September** 19**68**.

JAPAN AUTOMOBILE FEDERATION

Photograph **A**, 3/4 view of car from front

東京都港区芝公園第三号地一番
機械振興会館内
社団法人 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.

Make Toyota Model KE10(D) F. I. A. Rec. No.

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

CAPACITIES AND DIMENSIONS

1. Wheelbase	2285	mm	90.0	inches		
2. Front track	1230	mm	48.4	inches *		
3. Rear track	1220	mm	48.0	inches *		
4. Overall length of the car		384.5	cm			inches
5. Overall width of the car		148.0	cm			inches
6. Overall height of the car		138.0	cm			inches
7. Capacity of fuel tank (reserve included)			36	l trs		
9.5	Gallon US			Gallon Imp.		
8 Seating capacity	5					

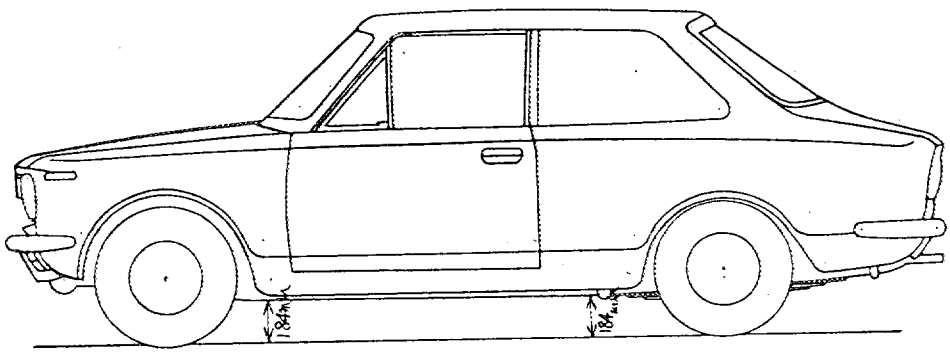
9. Weight, total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:

675 kg 1490 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 KE10(D) F.I.A. Rec. No.

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 : ~~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 :

	kg	lbs
10.7 x 2		

43. Rear seats, type of seats and upholstery Bench, Vinyl leather
44. Front bumper, material (s) Steel Weight 2.3 kg lbs
45. Rear bumper, material (s) Steel Weight 3.3 kg lbs

WHEELS

50. Type Pressed steel
51. Weight (per wheel, without tyre) 5.0, 5.8 kg lbs
52. Method of attachment 4 Nuts
53. Rim diameter 305, 329 mm 12, 13 inches
54. Rim width 102, 114 mm 4, 4.5 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

Make Toyota | Model KE10(D) | F.I.A. Rec. 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 11/16	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. $115.2x10^2$	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	$61.0x10^2$ mm^2	sq. in.	mm^2	sq. in.

Make Toyota | Model KE10(D) | 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 2.95 in. | 134. Stroke 61 mm 2.40 in

135. Capacity per cylinder 269 cm³ 16.5 cu. in.

136. Total cylinder-capacity 1077 cm³ 65.8 cu. in.

137. Material (s) of cylinder block Cast iron

138. Material (s) of sleeves (if fitted)

139. Cylinder-head, material (s) Alminum 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 33.7 cm³ cu. in.

144. Piston, material Alminum 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 / xxxxx

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. 42 mm in.

Weights

160. Flywheel (clean) 6.8 kg lbs

161. Flywheel with clutch (all turning parts) 10.0 kg lbs

162. Crankshaft 8.8 kg lbs | 163. Connecting rod 0.3 kg lbs

164. Piston with rings and pin 0.4 kg lbs

Make Toyota Model KE10(D) 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 81) *

180. Material(s) of inlet manifold Alminum alloy

181. Diameter of valves 34 mm 1.34 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° ± 7°

188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C. 50° ± 7°

189. Air filter, type Dry

EXHAUST (see page 81)

195. Material (s) of exhaust manifold Cast iron

196. Diameter of valves 28 mm 1.10 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° ± 7°

203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C. 16° ± 7°

CARBURETION (photograph N)

210. Number of carburettors fitted 1 211. Type Down draught

212. Make Aisan 213. Model K

214. Number of mixture passages per caburettor 2

215. Flange hole diameter of exit port(s) of carburetteor 28 & 28 mm in.

216. Minimum dimensions of mixture posage (s) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

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

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

Make Toyota Model KE10(D) F. I. A. Rec. No.

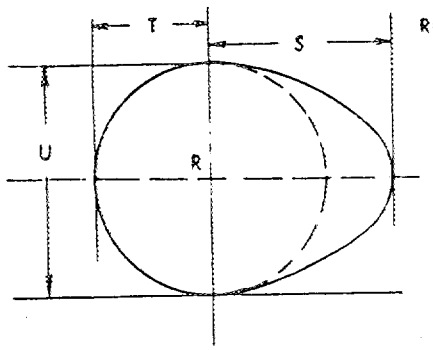
ENGINE ACCESSORIES

230. Fuel pump : . mechanical [illegible]
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: [illegible] 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 60 PS (type of horsepower: JIS) at 6000 rpm
251. Maximum rpm 6500 output at that figure 58 PS
252. Maximum torque 8.5 kg.m at 3800 rpm
253. Maximum speed of the car 140 km / hour miles / hour

255.

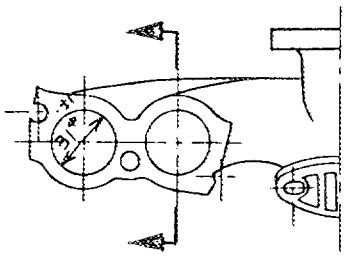


R=centre of camshaft.

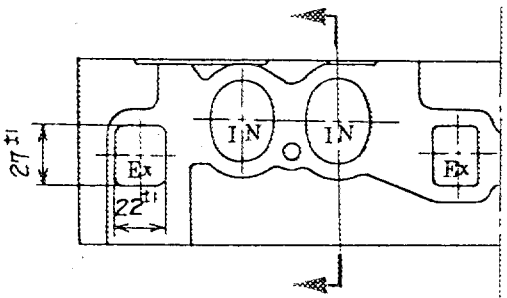
Inlet cam				
S =	21.1	mm	0.831	inches
T =	15.4	mm	0.606	inches
U =	30.8	mm	1.213	inches
Exhaust cam				
S =	21.2	mm	0.835	inches
T =	15.2	mm	0.598	inches
U =	30.4	mm	1.197	inches

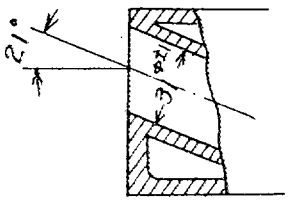
Make **Toyota** Model **KE10(D)** E.I.A. Rec. No.

Drawing inlet manifold ports side of cylinder head indicate scale or dimensions and manufacturing tolerance

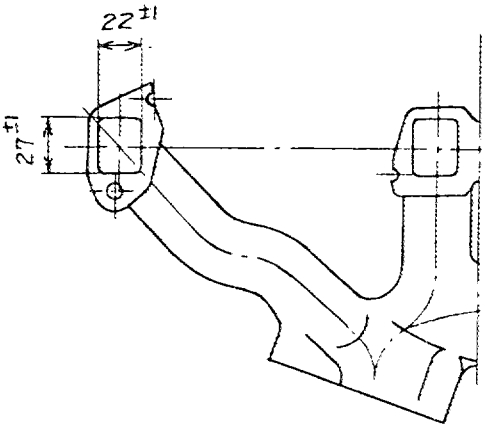


Drawing of entrance of inlet port of cylinder head indicate scale or dimensions and manufacturing tolerance





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 KE10(D) 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: Toyota
type: Torque converter
275. No. of forward ratios: 2
276. Location of gear-shift: Floor

277.	Manual Ratio	Manual No. teeth	Automatic Ratio	Automatic No. teeth	Alternative manual/automatic Ratio	Alternative manual/automatic No. teeth	Alternative manual/automatic Ratio	Alternative manual/automatic No. teeth
1	3.684	$\frac{32}{19} \times \frac{35}{16}$	1.82	$\frac{23+28}{28}$				
2	2.050	$\frac{32}{19} \times \frac{28}{23}$	1.00					
3	1.384	$\frac{32}{19} \times \frac{23}{28}$						
4	1.000							
5								
6								
reverse	4.316	$\frac{32}{19} \times \frac{41}{16}$	1.82	$\frac{23+28}{28}$				

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 KE10(D) 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 equipement affecting preceeding information. This to be stated together with reference number.

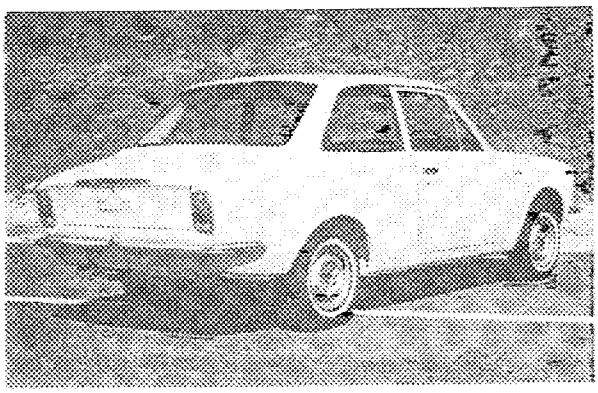
Make **Toyota**

Model **KE10(D)**

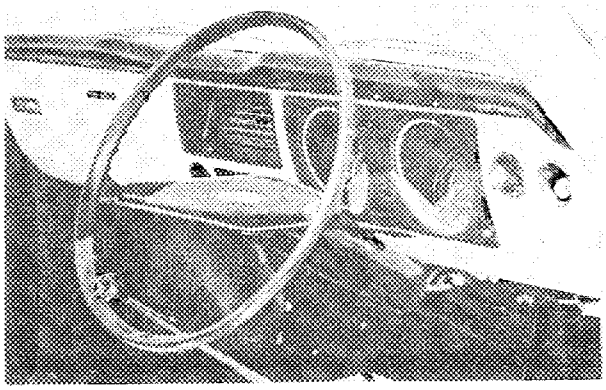
F. I. A. Rec No

Photograph

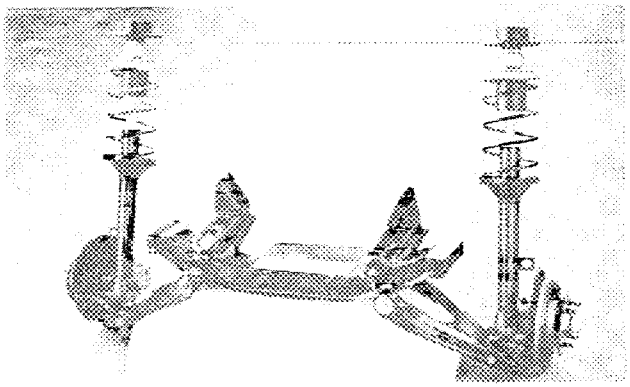
B, 3/4 view of car from rear



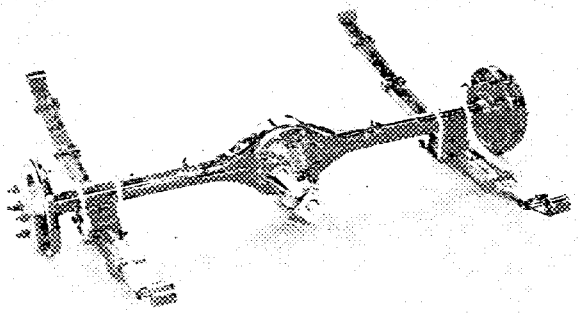
C, interior view of car through driver's door (open or removed) with dashboard



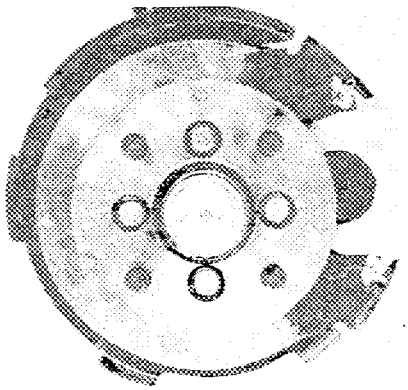
D, front axle complete, removed from car. Without wheels.



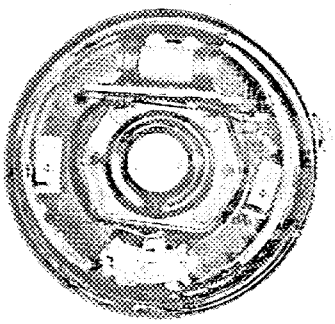
E, Rear axle complete without wheels, removed from car



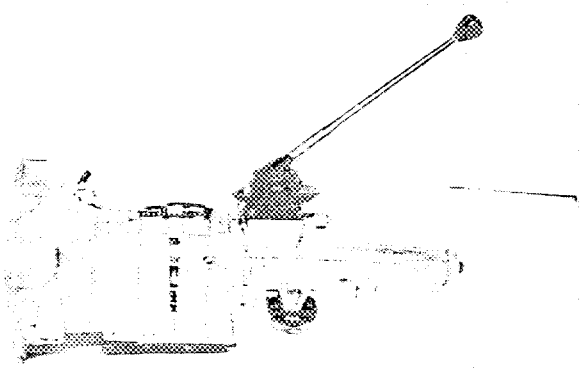
F, front brake, drum removed or disc with caliper(s)



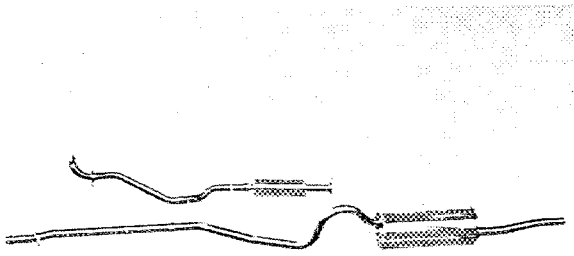
G, rear brake, drum removed or disc with caliper(s)



H, gear-box, view from side

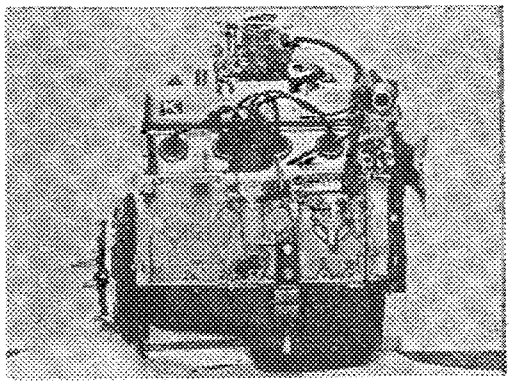


I, silencer + exhaust pipes after exhaust manifold

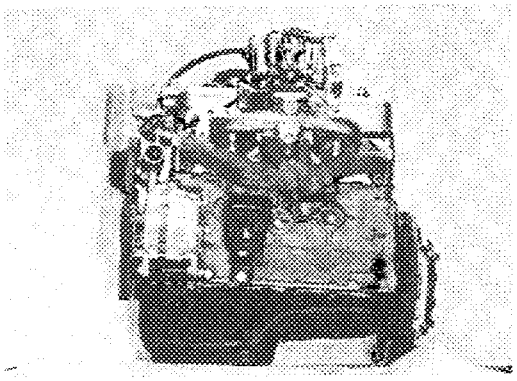


Make Toyota /Model KE10(D) F. I. A. Rec. No

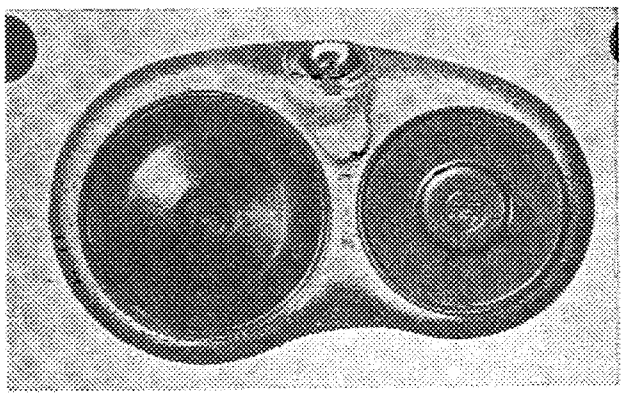
Photograph J, engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.



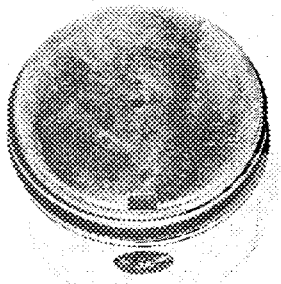
K, Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



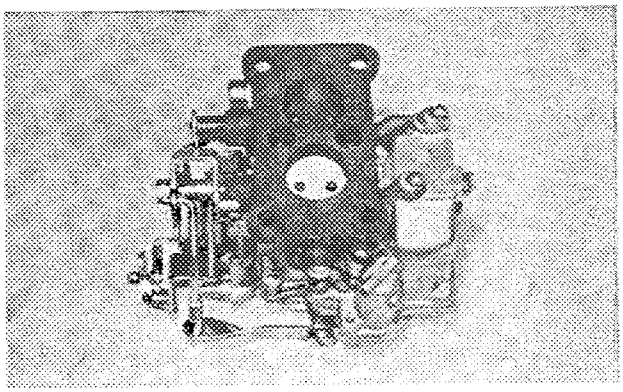
L, combustion chamber



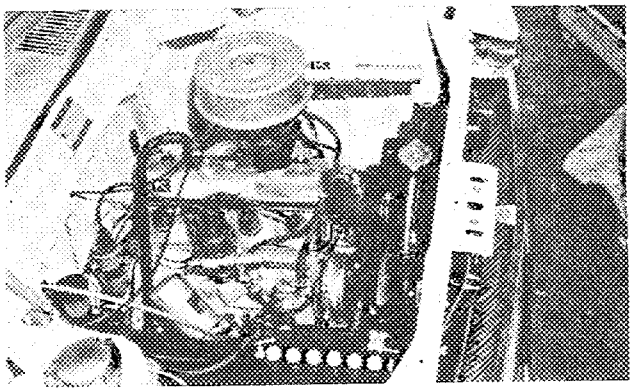
M, piston crown



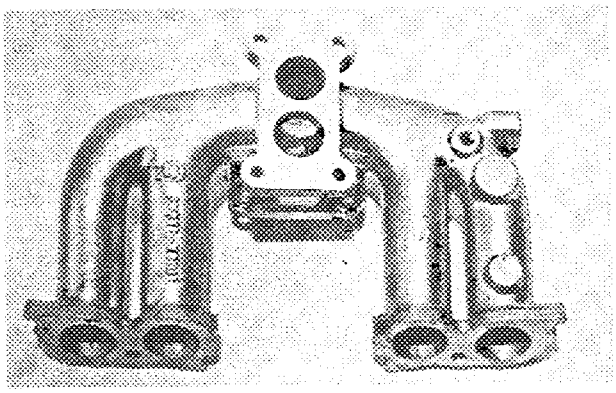
N, Carburettor (view from side of manifold)



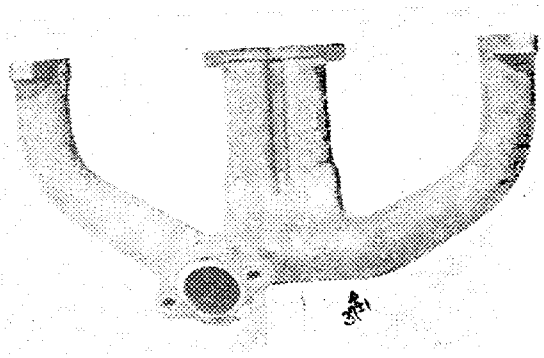
O, engine in car with all accessories, bonnet open or removed.



P, inlet manifold



Q, exhaust manifold



JAPAN AUTOMOBILE FEDERATION F. I. A. Homol. No 1543 I/I V

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Amendment to Form of Recognition
in accordance with the International Sporting Code. FIA Recognition No 1543

Make Toyota Motor Co., Ltd. **Model** KE10(D)

Modification's application starts with serial No. chassis KE10-260001
engine K - 323596

Application of this amendment started the 11th March 1968

Commercial denomination after application of modifications Toyota Corolla SL. KE10-S

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

Date amendment is valid from 1st Jan 69 List 1969/1

Description of amendment

Another type of engine can be choiced for the KE10(D) cars as maker's option.

Cylinder Capacity. 1077 Cm^3 65.8 Cu.in.

350. Max. engine output 73 PS (type of horsepower : JIS) at 6600 rpm
351. Max. rpm 6700 output at that figure 72.9 PS
352. Max. torque 9.0 Kg-m at 4600 rpm
353. Max. speed of the car 155 Km/h

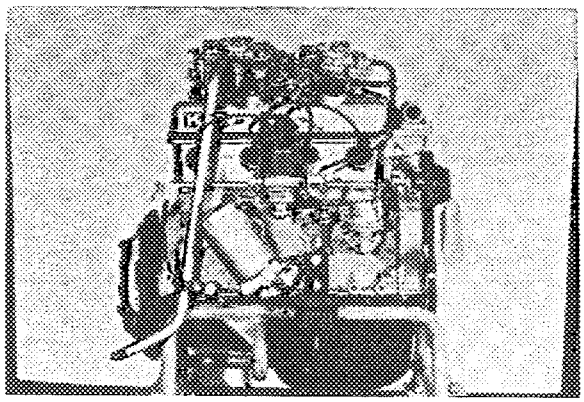


Photo J

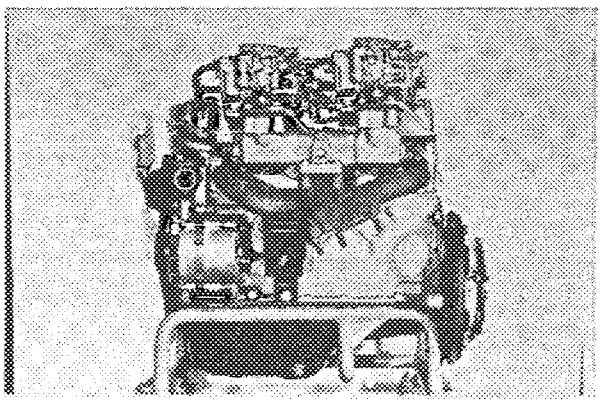


Photo K

Further detailed specifications are described on the attached sheets.

Stamp and signature of National Sporting Authority

JAPAN AUTOMOBILE FEDERATION

Yasuharu Nanba

Stamp and signature of F.I.A.

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社団法人 日本自動車連盟

Make Toyota Model KE10 (D) 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 2.95 in.

134. Stroke 61 mm 2.40 in.

135. Capacity per cylinder 269 cm³ 16.5 cu. in.

136. Total cylinder-capacity 1077 cm³ 65.8 cu. in.

137. Material (s) of cylinder block Cast iron

138. Material (s) of sleeves (if fitted)

139. Cylinder-head, material (s) Alminum 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 29.9 cm³ cu. in.

144. Piston, material Alminum 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 / ~~stamped~~

148. Type of crankshaft : integral /XXXXXXXXX

149. Number of crankshaft main bearings 5

150. Material of bearing cap Cast iron

151. System of lubrication : ~~pressure~~ / oil in sump

152. Capacity, lubricant 3.5 litrs pts quarts

153. Oil cooler : ~~Yes~~ / no

154. Method of engine cooling Water

155. Capacity of cooling system 4.7 litrs pints quarts

156. Cooling fan (if fitted), dia. [illegible] 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) 10.0 kg

162. Crankshaft 8.8 kg lbs

163. Connecting rod 0.3 kg

164. Piston with rings and pin 0.4 kg lbs

Attached sheet Page

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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 Alminum alloy

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. Number of valves per cylinder 1

186. Tappet clearance for checking timing (cold) 0.1 mm inches

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 inches

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°

CARBURETTION (photograph N)

210. Number of carburettors fitted 2 211. Type Down draught

212. Make Aisan 213. Model K - B

214. Number of mixture passages per carburettor 2

215. Flange bore diameter of exit port(s) of carburetteor 28 & 28 mm

216. Maximum dimensions of mixture passage(s) ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX~~

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

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

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Make Toyota Model KE10 (D) F. I. A. Rec. No.

ENGINE ACCESSORIES

230. Fuel pump : mechanical ~~and electrical~~

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: ~~dynamo~~/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)

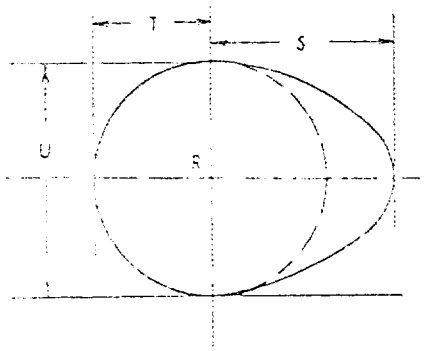
250. Max. engine output 73PS (type of horsepower: JIS) at 6600 rpm

251. Maximum rpm 6700 output at that figure 72.9 PS

252. Maximum torque 9.0 Kg-m at 4600 rpm

253. Maximum speed of the car 155 km/hour miles / hour

255



R=centre of camshaft.

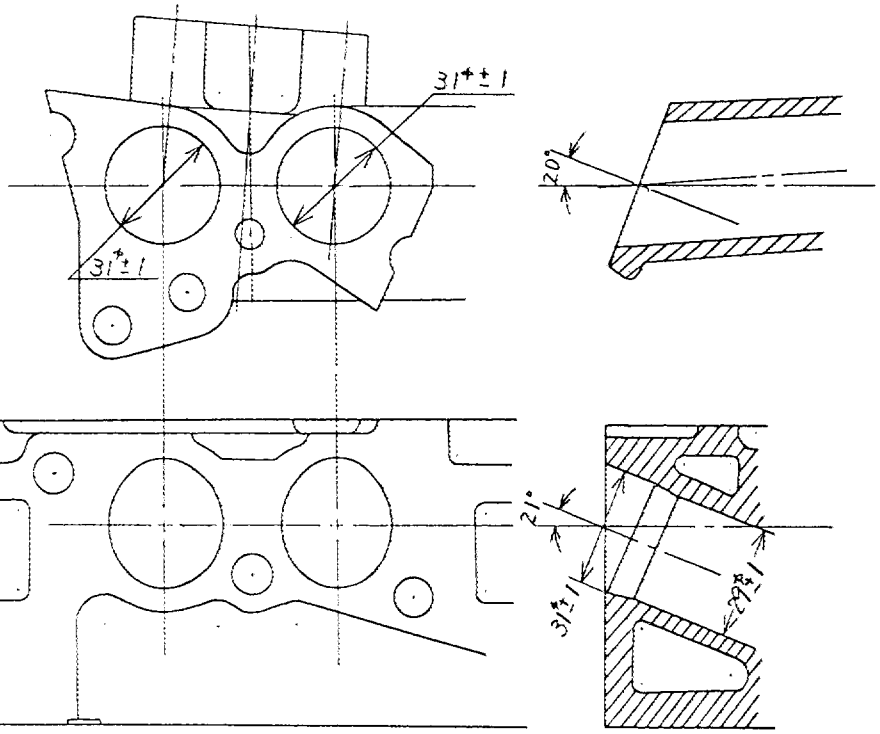
Inlet cam				
S =	21.3	mm	0.839	inches
T =	15.5	mm	0.610	inches
U =	31.0	mm	1.220	inches
Exhaust cam				
S =	21.3	mm	0.839	inches
T =	15.2	mm	0.598	inches
U =	30.5	mm	1.200	inches

Make Toyota

Model (D) KE10

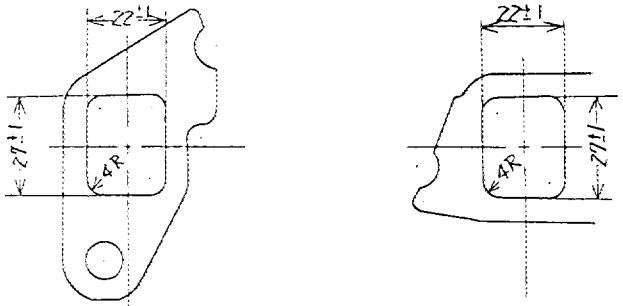
F I A. Rec No

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

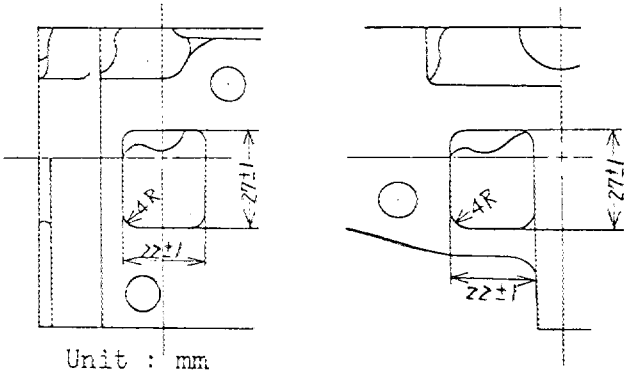


Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance

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

Model KE10(D)

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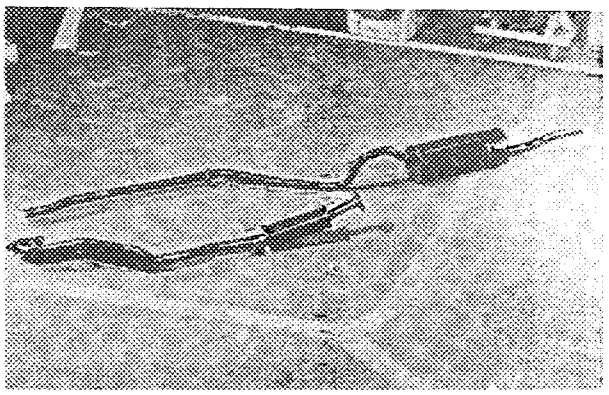
Photograph

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

E, Rear axle complete without wheels, removed from car

G, rear brake drum removed or drum with cover

I, silencer + exhaust pipes after exhaust



Model KE10 (D)

Photograph

F. I. A. Rec. No

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

For recognition in group 4 the engine to be showed without accessories nor manifolds (enlet-exhaust).

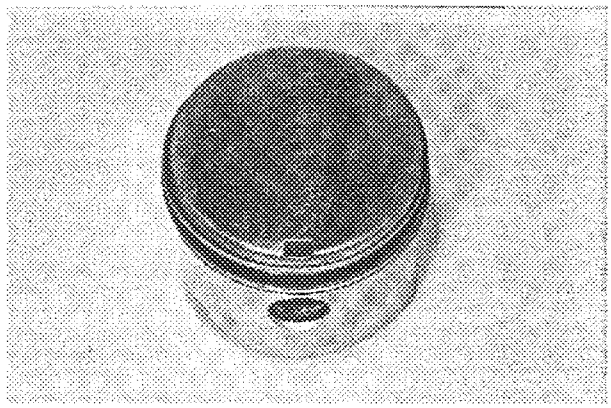
Attached on the "variant" form

K, cessories but without gear-box nor air filter.

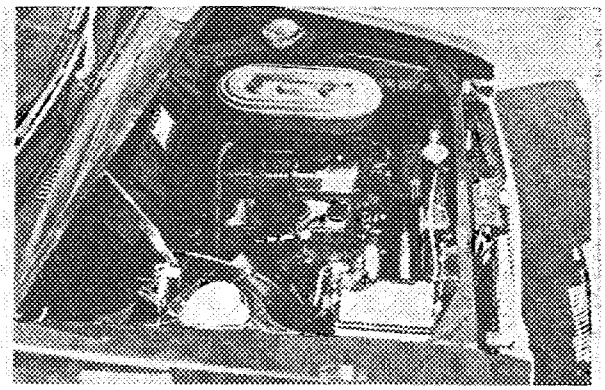
For recognition in group 4 the engine to be showed without accessories nor manifolds (enlet-exhaust).

Attached on the "variant" form

M, piston crown



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



Q, exhaust manifold