JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. 1579
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: KP31-000001
engine: 3K 0000001

Recognition is valid from 1/1/70

Cylinder-capacity: 1166 cm3 71.1 cu. in.
Model: Toyota Publica SL, KP31S
Manufacturer: Toyota Motor Co., Ltd.
Manufacturer: Toyota Motor Co., Ltd.
List 70-14

The manufacturing of the model described in this recognition form was started on Sept. 1969 and the minimum production of 1000 identical cars, in accordance with the specifications of this form was reached on Sept. 1969

Photograph A, 3/4 view of car from front

東京都港区芝公園第三号地一番基
社団法人 日本自動車連盟
機械振興会館内

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 KP31S 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 coversion table hereafter.

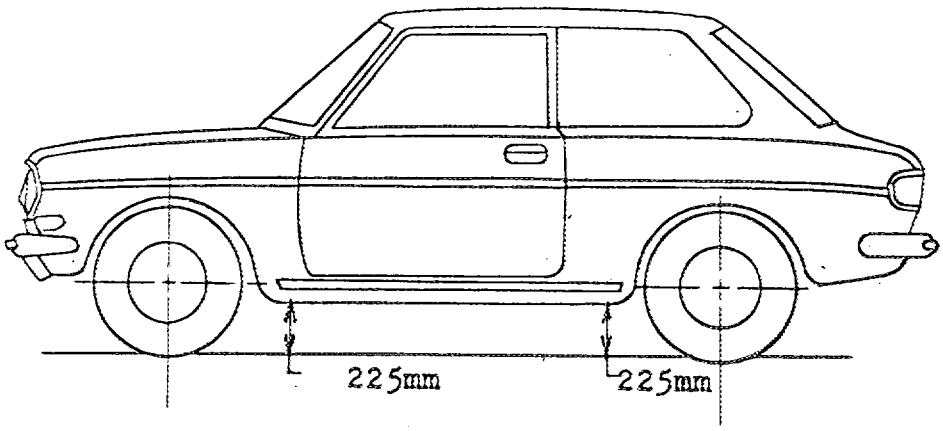
CAPACITIES AND DIMENSIONS

1	Wheelbase	2,160	mm	85.1	inches	
2	Front track	1,235	mm	48.7	inches	*
3.	Rear track	1,200	mm	47.3	inches	*
4.	Overall length of the car		367.0	cm		inches
5.	Overall width of the car		145.0	cm		inches
6.	Overall height of the car		138.0	cm		inches
7.	Capacity of fuel tank (reserve included)			40	l trs	
		10.6	Gallon US		Gallon Imp.	
8.	Seating capacity					
9.	Weight, total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools					
		650	kg	1430	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 KP31S 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 : ~~XX~~ - no

39 Air-conditioning : ~~XXX~~ - 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 :

10.5 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 3.6 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 2.8

63 In case of servo-assistance

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SUSPENSION

70. Front suspension (photogr. D), type			Independent, Macpherson
71. Type of spring			Coil
72. Stabiliser (if fitted)			Torsion bar
73. Number of shockabsorbers	2	74. Type	Hydraulic telescopic
78. Rear suspension (photogr. E), type			Rigid
79. Type of spring			Leaf
80. Stabiliser (if fitted)			
81. Number of shockabsorbers	2	82. Type	Hydraulic telescopic

BRAKES (photographs F and G)

90. System			Hydraulic
91. Servo-assistance (if fitted), type			
92. Number of hydraulic master cylinders			1

	FRONT		REAR
93. Number of cylinders per wheel	1		1
94. Bore of wheel cylinder (s)	44.45 mm	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	mm²	sq. in.	115.2x10² mm² sq. in.
Disc brakes			
100. Outside diameter	200 mm	in.	mm in.
101. Thickness of disc	9 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 10² mm²	sq. in.	mm² 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 2.96 in. 134. Stroke 66 mm 2.60 in

135. Capacity per cylinder 291 cm³ 17.8 cu. in.

136. Total cylinder-capacity 1166 cm³ 71.1 cu. in.

137. Material (s) of cylinder block Cast iron

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

139. Cylinder-head, material (s) Aluminum alloy Number fitted 1

140. Number of inlet ports 4 141. Number of exhaust ports 4

142. Compression ratio 10.0

143. Volume of one combustion chamber 32.4 m³ 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 / ~~forged~~ 148. Type of crankshaft : integral / XXXXX

149. Number of crankshaft main bearings 5

150. Material of bearing cap Cast iron

151. System of lubrication : ~~dry sump~~ XXXXX / oil in sump

152. Capacity, lubricant 3.5 ltrs pts quarts US

153. Oil cooler : ~~yes~~ XXX / no 154. Method of engine cooling Water

155. Capacity of cooling system 4.7 ltrs pints quarts

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. 45 mm

Weights

160. Flywheel (clean) 9.1 kg lbs

161. Flywheel with clutch (all turning parts) 12.3 kg

162. Crankshaft 8.9 kg lbs 163. Connecting rod 0.47 kg

164. Piston with rings and pin 0.4 kg lbs

Make Toyota Model KP31S F.I.A. Rec. No

FOUR STROKE ENGINES

170. Number of camshafts 1 171. Location Cylinder block

172. Type of camshaft drive Chain

173. Type of valve operation Push rod & rocker

INLET (see page 8) *

180. Material(s) of inlet manifold 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. 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° ± 2.5°

188. Valves close at (with tolernce for tappet clearance indicated) A.B.D.C. 50° ± 2.5°

189. Air filter, type Dry

EXHAUST (see page 8)

195. Material (s) of exhaust manifold Cast iron

196. Dinmeter of valve 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° ± 2.5°

203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C. 16° ± 2.5°

CARBURETTION (photograph N)

210. Number of carburettors 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 carburetteor 28 & 28 mm in.

216. Minimum dimensions of mixture pasage (s) ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX~~

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

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*) 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 ~~xxxxxxx~~	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 ~~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)

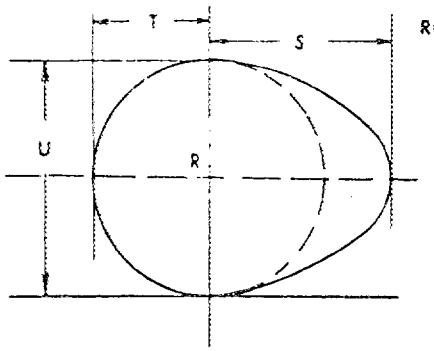
250. Max. engine output 77PS (type of horsepower: JIS) at 6600 rpm

251. Maximum rpm 6700 output at that figure 76.5PS

252. Maximum torque 9.6 kg-m at 4600 rpm

253. Maximum speed of the car 160 km / hour miles / hour

255.



R=centre of camshaft.

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

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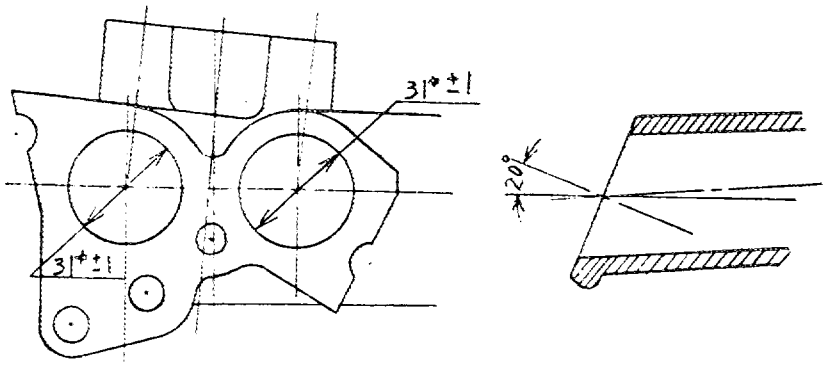
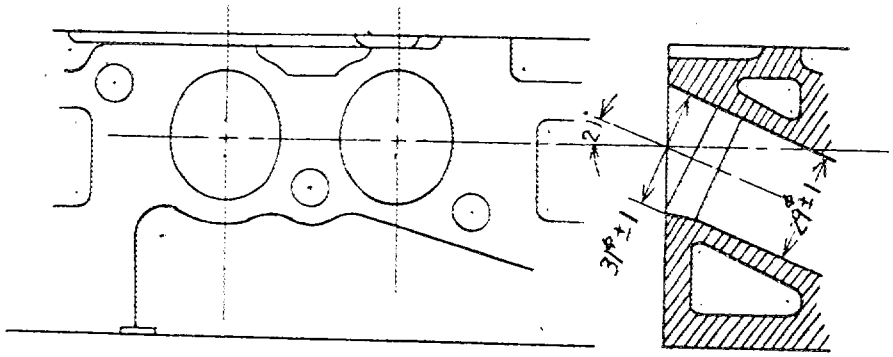
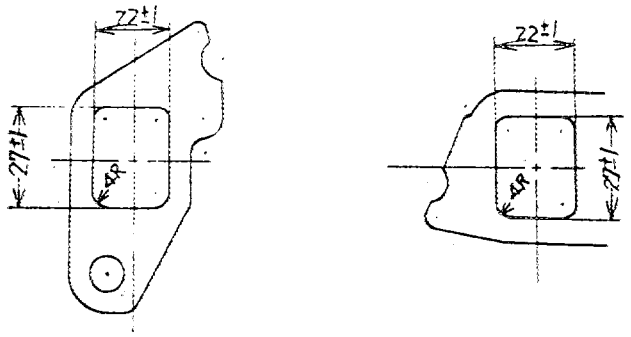
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance



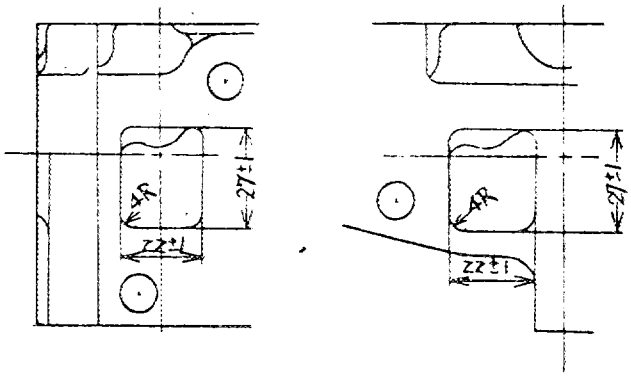
Drawing ... ance to ... port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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 KP31S 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 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	32/19 x 35/16						
2	2.050	32/19 x 28/23						
3	1.383	32/19 x 23/28						
4	1.000							
reverse	4.316	32/19 x 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 KP31S 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.

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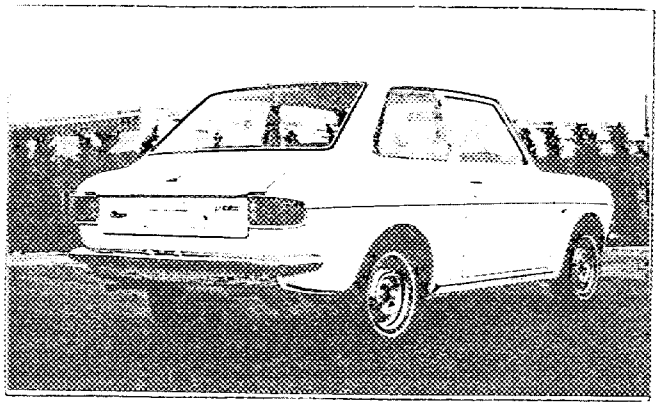
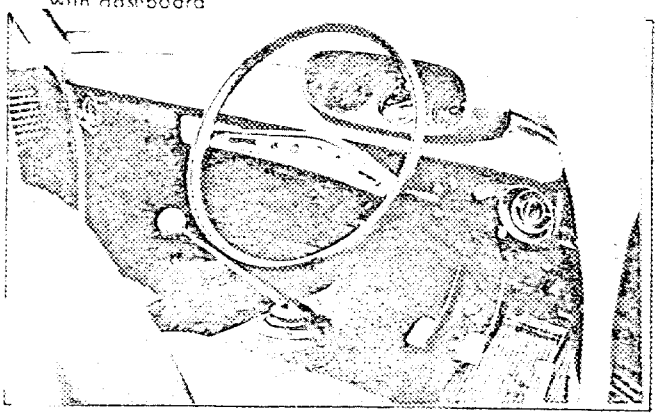
Photograph

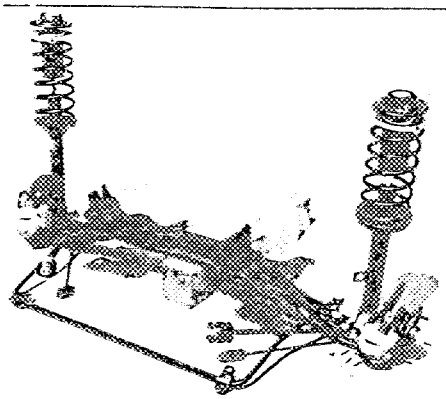
B, 3/4 view of car from rear



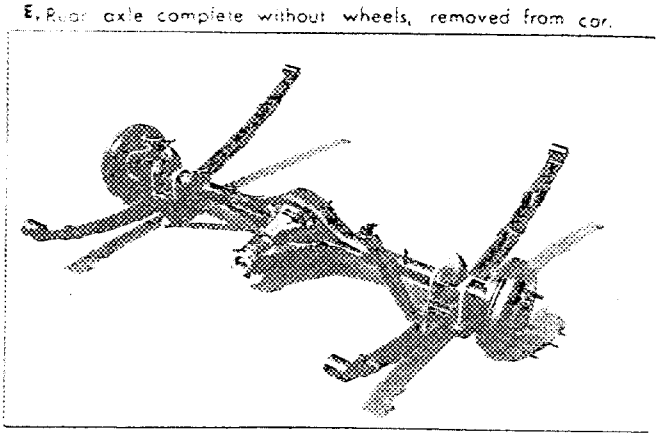
C, interior view of car through driver's door (open or removed) with dashboard



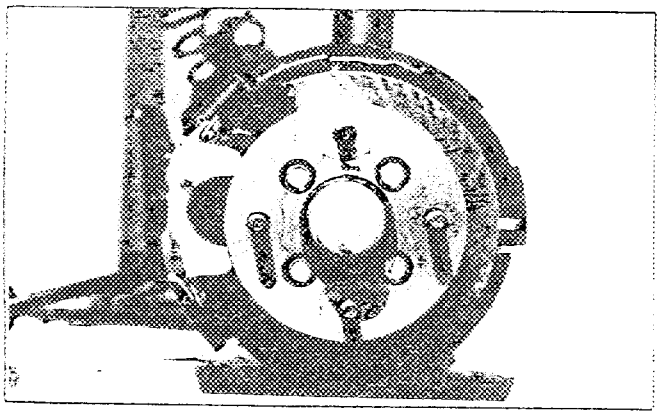
D, front axle complete, removed from car. Without wheels



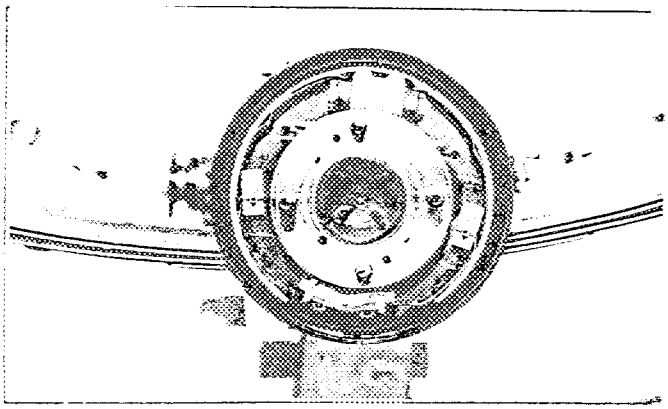
E, Rear axle complete without wheels, removed from car.



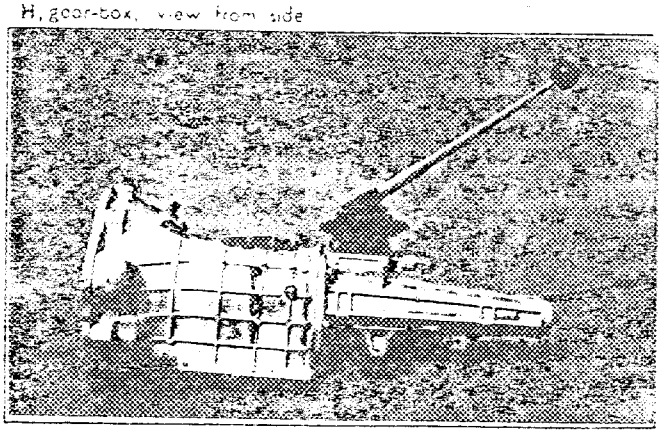
F, front brake, drum removed or disc with caliper(s)



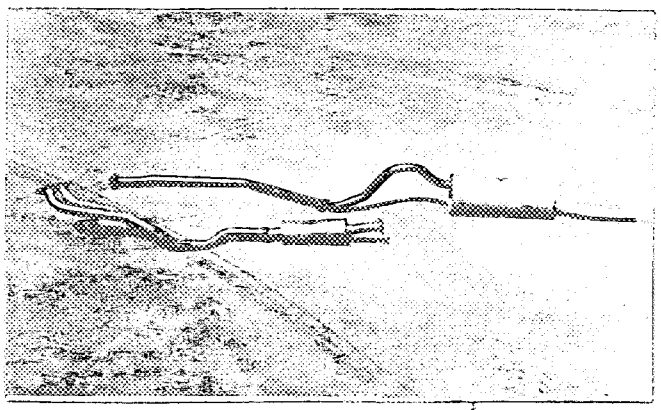
G, rear brake, drum removed or disc with caliper(s)



H, gear-box, view from side

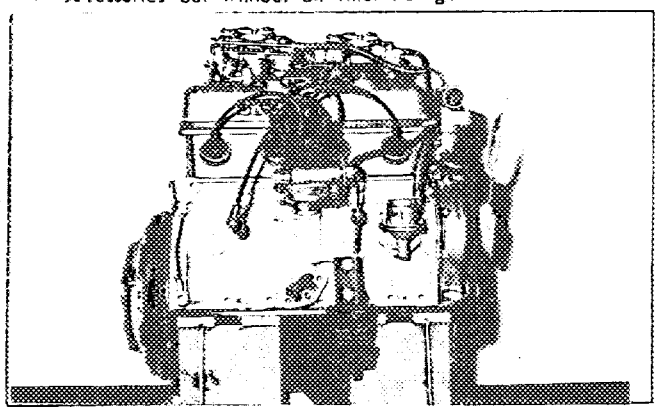


I, silencer + exhaust pipes after exhaust manifold.

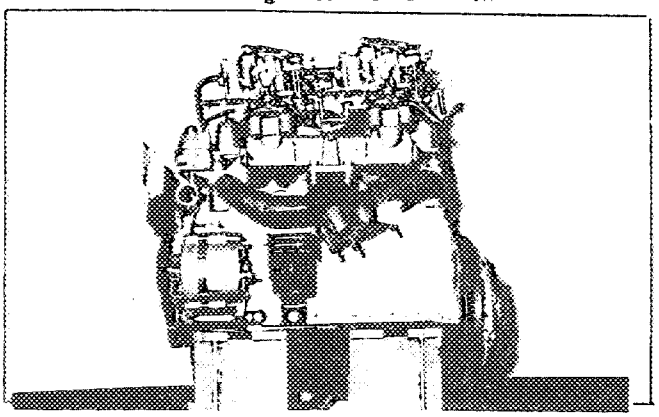


Make Toyota **Photograph** Model KP31S F. I. A Rec. No

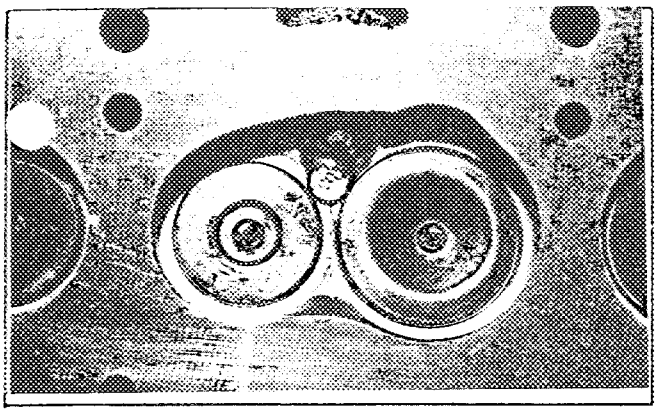
J, engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.



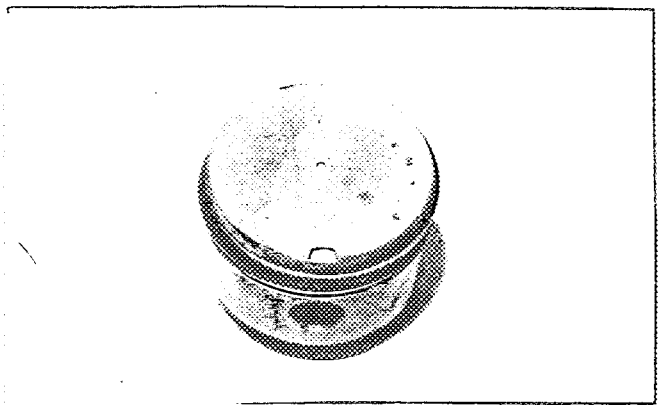
K, Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



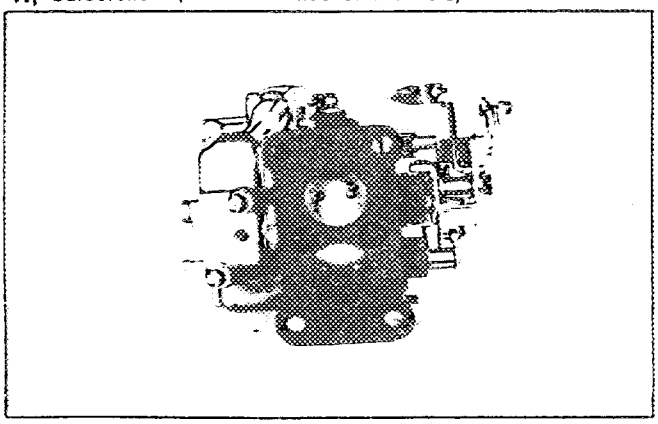
L, combustion chamber



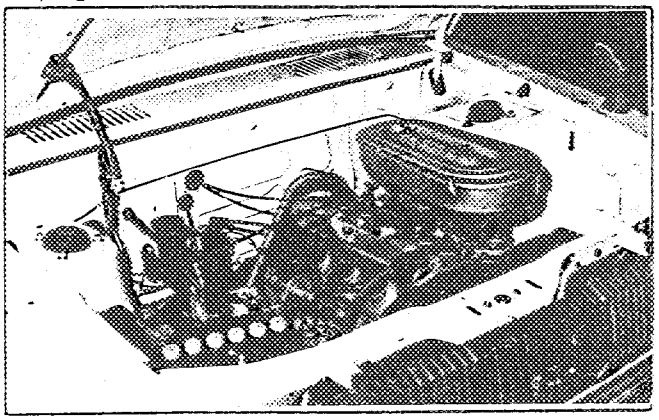
M, piston crown



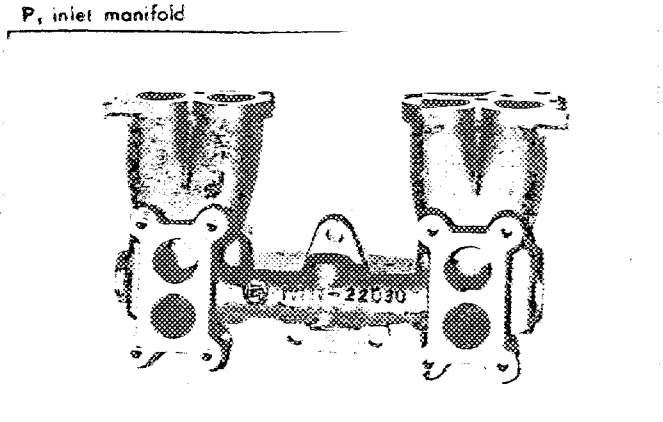
N, Carburettor (view from side of manifold)



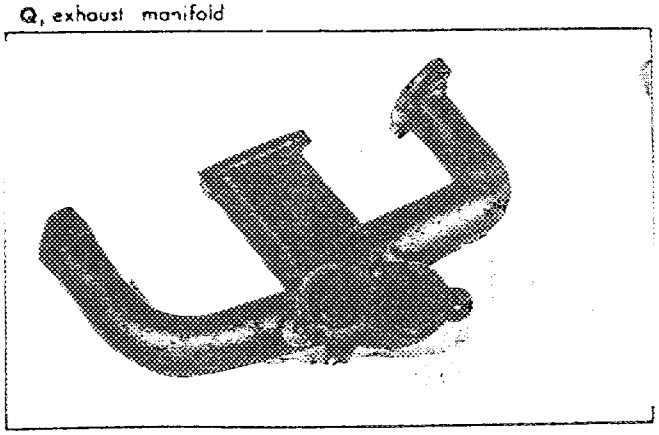
O, engine in car with all accessories, bonnet open or removed.



P, inlet manifold



Q, exhaust manifold



Make Toyota

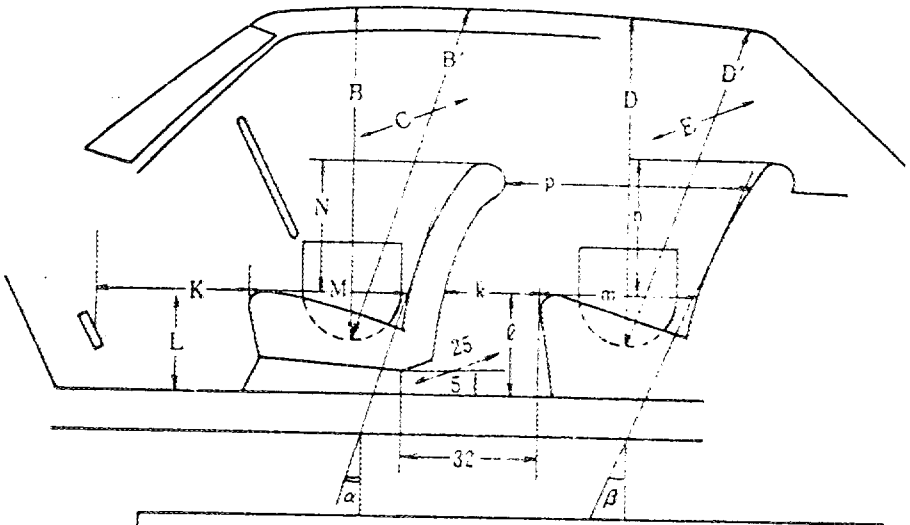
Model KP31S

F.I.A. Rec No

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
95	98	21°	120	94	95	25°	124

Minimum Dimensions (cm)										
L	ℓ	M	m	N	n	k+m	p	k	k+ℓ+m	K+L+M
29	34	49	46	48	47	62	70	16	96	121
0.9L = 26.1		0.85M = 41.65		0.8N = 38.4		0.8(k+m) = 49.6		(15)	(95)	(120)

Make Toyota Model KP31S 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. Drawing of cylinder ports.

330. Supercharging—state full details hereafter

JAPAN AUTOMOBILE FEDERATION

難波靖治

Yasuharu Nanba

JAPAN AUTOMOBILE FEDERATION
社団 日本自動車連盟
法人

T-115 E-3
J·A·F公認番号 ~~T 155~~
発効年月日 47. 2. 29
F. I. A. Homol. No 1579

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

国際スポーツ法典付則J項及びJAF国内競技車両規則に従った公認書式。

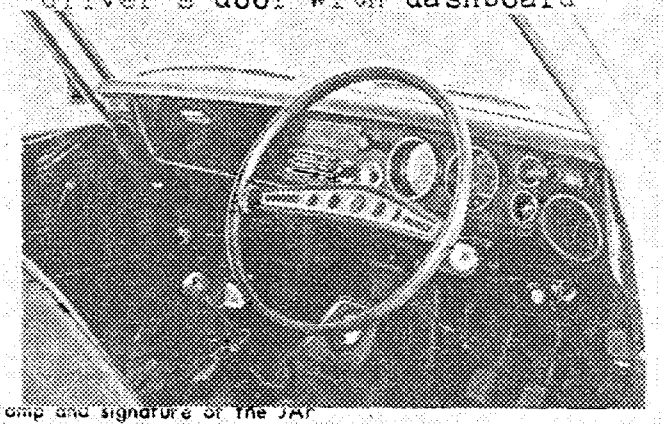
Make 製造会社名 Toyota Motor Co., Ltd.
Model 型式及び通称名 Toyota Publica SL, KP31S
Modification's application starts with serial No. chassis 適用シャーシー番号 KP31-005001
engine 適用エンジン番号 3K 5195000
Application of this amendment started the 適用年月日 1st October, 1970
Commercial denomination after application of modifications Toyota Publica SL, KP31S
The modifications are to be considered as: ~~major~~ / 変更 / normal 正常進化 evolution of the type
Date amendment is valid from List Group II NO.1579

Description of amendment 内容
Transfer from Group 2 to Group 1.

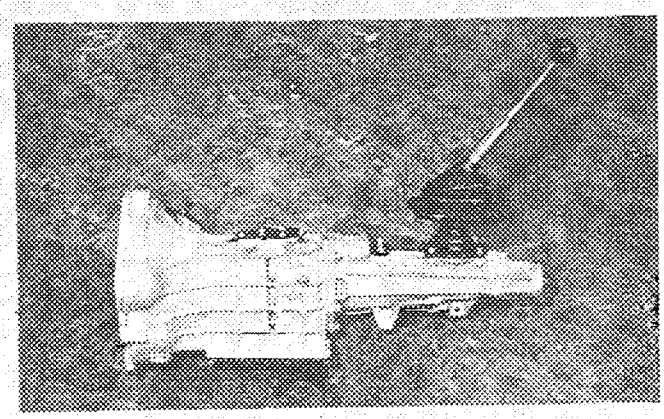
Phot. A
3/4 view of car from front

Phot. B
3/4 view of car from rear

Phot. G
interior view of car through driver's door with dashboard



Phot. H
gear box, view from side



Stamp and signature of the JAF

JAF公認印及び署名

難波靖治
Yasuharu Nanba

Stamp and signature of the F.I.A.

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

Original FIA Recog. No. 1579 1/115

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Make Toyota Motor Co., Ltd. **Model** Toyota Publica SL, KP31S

Modification's application starts with serial No. chassis KP31-000001
engine 3K 0000001

Application of this amendment started the 1st March, 1970

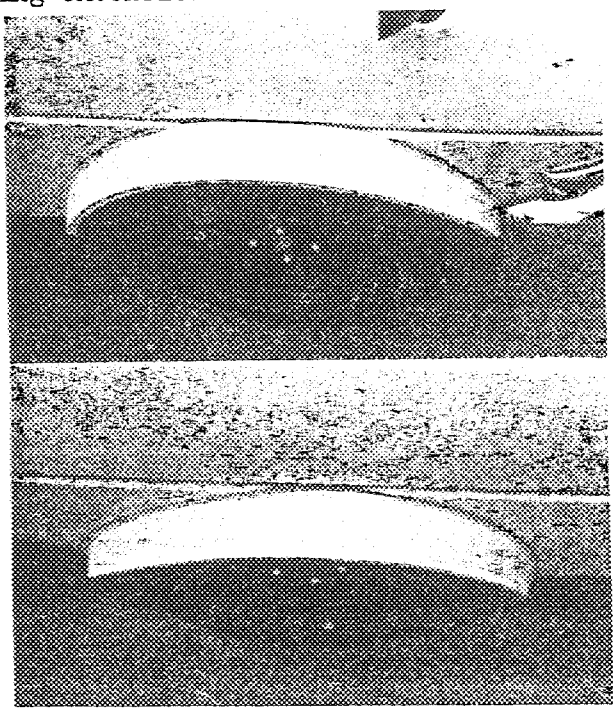
Commercial denomination after application of modifications

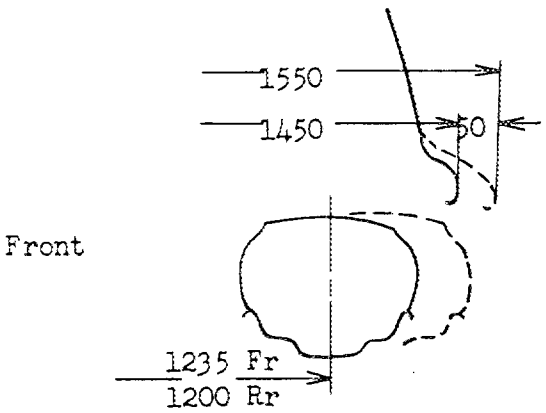
The modifications are to be considered as: Variant / ~~xxxxxxxxxxxxxxxxxxxxxxxx~~

Date amendment is valid from 1/7/70 List 707

Description of amendment

Wing extensions





Center
of original rim
Unit : mm

Rear

Stamp and signature of
National Sporting Authority

JAPAN AUTOMOBILE FEDERATION

難波靖治

Yasuharu Nanba

Stamp and signature of F. I. A.