



# JAPAN AUTOMOBILE FEDERATION

5471

F. I. A. Recognition No. [REDACTED]  
Group **1**

## FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer	Toyota Motor Co., Ltd.	Cylinder-capacity	1166	cm <sup>3</sup>	71.1	cu. in.
Serial No. of chassis	KP31-000001	Model	Toyota Publica SL, KP31S			
engine	3K 0000001	Manufacturer	Toyota Motor Co., Ltd.			
Recognition is valid from	1/1/70	Manufacturer	Toyota Motor Co., Ltd.			
		List	70/1			

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. 19 69**

Photograph A, 3/4 view of car from front



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

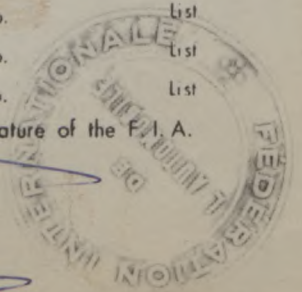
Normal evolution of the type

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.



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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 conversion table hereafter.

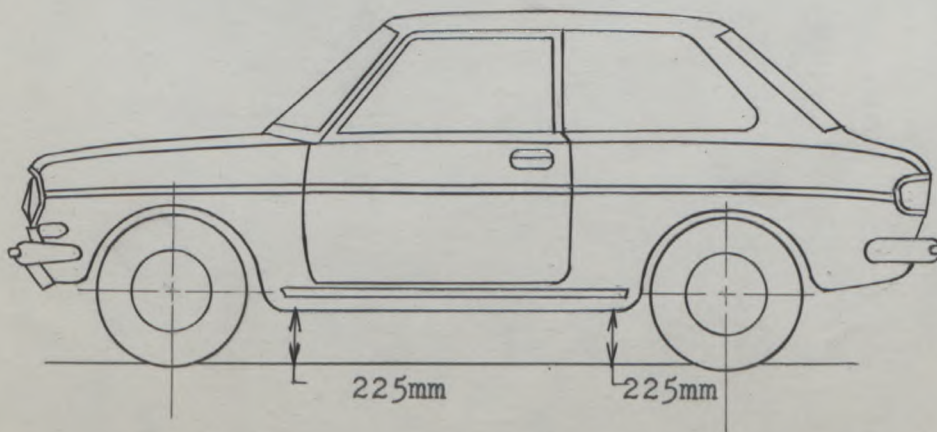
**CAPACITIES AND DIMENSIONS**

1. <u>Wheelbase</u>	2,160	mm	85.1	inches
2. <u>Front track</u>	1,235	mm	48.7	inches *
3. <u>Rear track</u>	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. <u>Capacity of fuel tank</u> (reserve included)			40	1 ltrs
	10.6	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:				
	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.

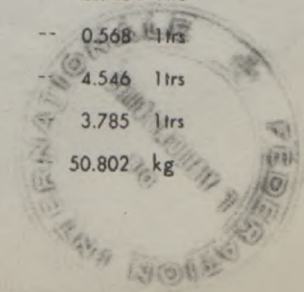
Specify ground clearance in relation to the track and give drawing of two fixed points of the vehicle's structure at which measurements are taken.

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 <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





Make **Toyota**

Model **KP31S**

**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	<b>1</b>		<b>1</b>	
94. Bore of wheel cylinder (s)	<b>44.45</b> mm	in.	<b>17.46</b> mm	in.

**Drum brakes**

- 95. Inside diameter **200** mm in.
- 96. Length of brake linings **192** mm in.
- 97. Width of brake linings **30** mm in.
- 98. Number of shoes per brake **2**
- 99. Total area per brake **115.2 x 10<sup>2</sup>** mm<sup>2</sup> sq. in.

**Disc brakes**

- 100. Outside diameter **200** mm in.
- 101. Thickness of disc **9** mm in.
- 102. Length of brake linings **97** mm in.
- 103. Width of brake linings **37** mm in.
- 104. Number of pads per brake **2**
- 105. Total area per brake **61.0 x 10<sup>2</sup>** 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 2.96 in.
- 134. Stroke 66 mm 2.60 in.
- 135. Capacity per cylinder 291 cm<sup>3</sup> 17.8 cu. in.
- 136. Total cylinder-capacity 1166 cm<sup>3</sup> 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 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 / ~~xxxx~~
- 148. Type of crankshaft : integral / ~~xxxxx~~
- 149. Number of crankshaft main bearings 5
- 150. Material of bearing cap Cast iron
- 151. System of lubrication : ~~xxxxx~~ / oil in sump
- 152. Capacity, lubricant 3.5 ltrs pts quarts US
- 153. Oil cooler : ~~yes~~ / 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. 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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[Redacted]

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

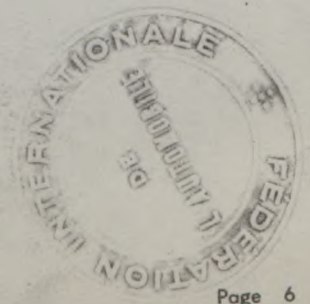
**CARBURETION** (photograph N)

210. Number of carburetors fitted **2** 211. Type **Down draught**  
 212. Make **Aisan** 213. Model **3K - B**  
 214. Number of mixture passages per carburetor **2**  
 215. Flange hole diameter of exit port(s) of carburetor **28 & 28** mm in.  
 216. Minimum dimensions of mixture passage (s) ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~  
**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.



Make **Toyota**

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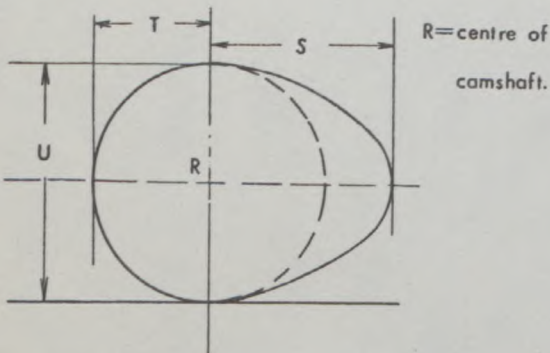
**ENGINE ACCESSORIES**

230. Fuel pump : mechanical and <del>xxxxxxx</del>	231. No. fitted	1
232. Type of ignition system <b>Make and break</b>	233. No. of distributors	1
234. No. of ignition coils <b>1</b>	235. No. of spark plugs per cylinder	1
236. Generator, type <del>xxxxx</del> /alternator-number fitted <b>1</b>	237. Method of drive	V belt
238. Voltage of generator <b>12</b> volts	239. Battery, number	1
240. Location <b>Engine room</b>		
241. Voltage of battery <b>12</b> volts		

**ENGINE AND CAR PERFORMANCES** (as declared by manufacturer in catalogue)

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

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

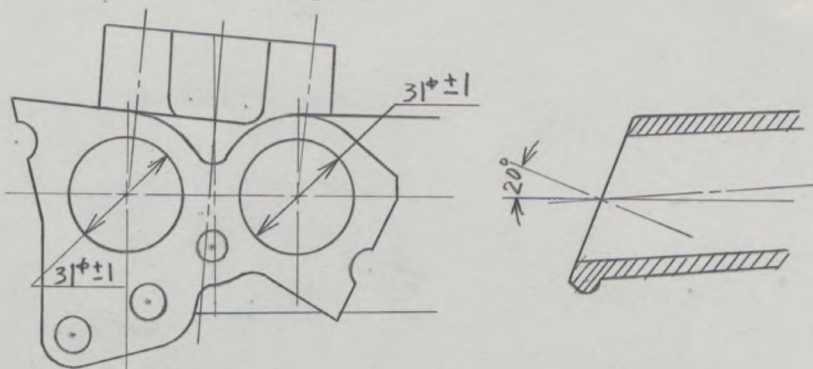
S =	21.2	mm	0.835	inches
T =	15.2	mm	0.599	inches
U =	30.4	mm	1.198	inches



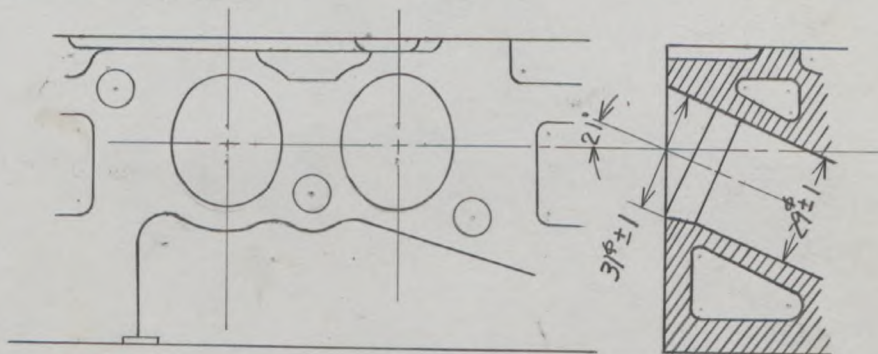
Make Toyota

Model KP31S

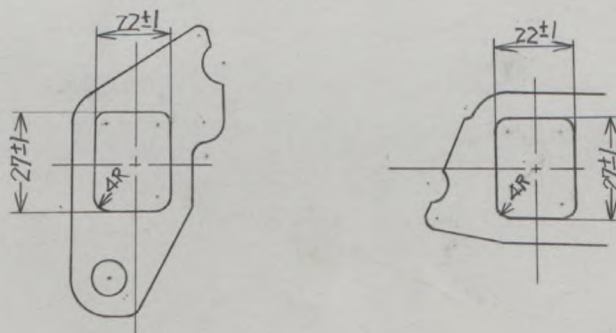
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



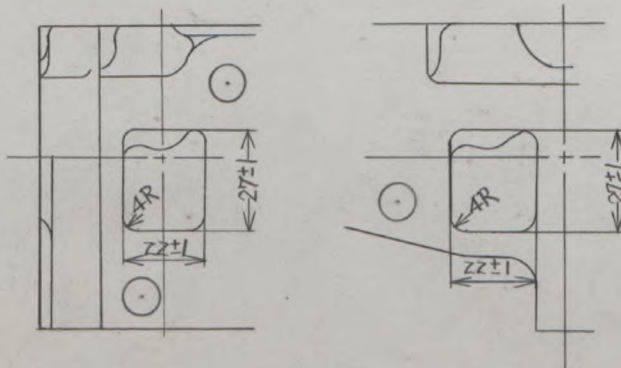
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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



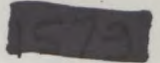
Drawing of exit to exhaust port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



Unit : mm







Make Toyota

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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	1.383	$\frac{32}{19} \times \frac{23}{28}$						
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 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.

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Optional equipment affecting preceding information. This to be stated together with reference number.





Make Toyota

Model KP31S

F. I. A. Rec. No.

Photograph

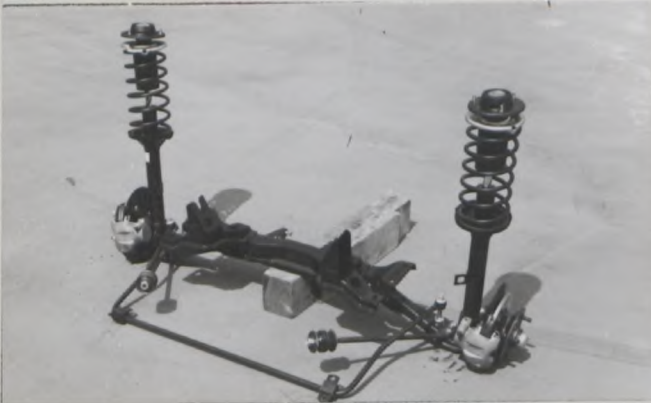
B, 3/4 view of car from rear



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



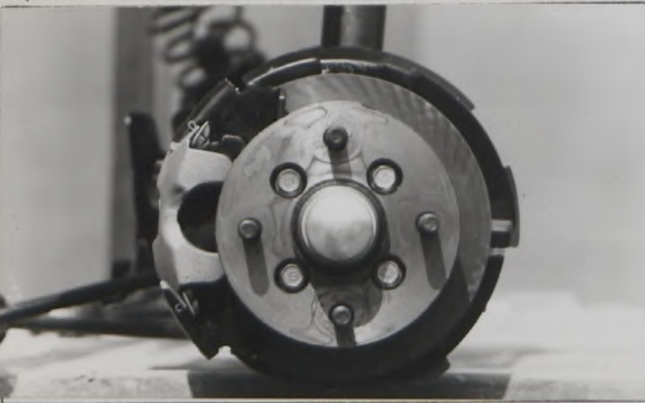
D, front axle complete, removed from car. Without wheels.



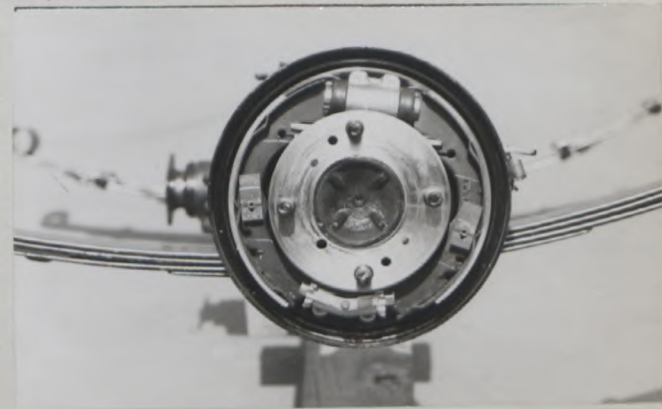
E, Rear axle complete without wheels, removed from car.



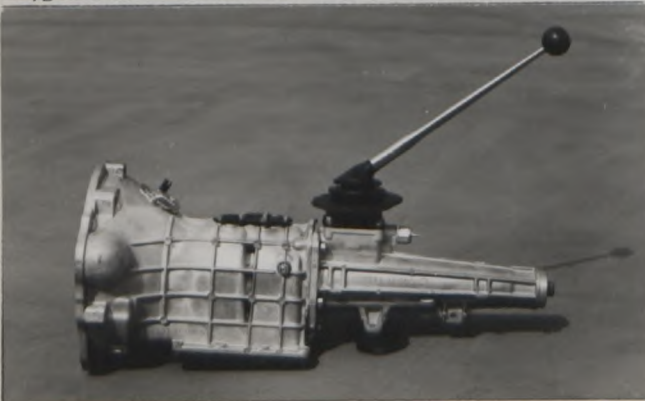
F, front brake. drum removed or disc with caliper(s)



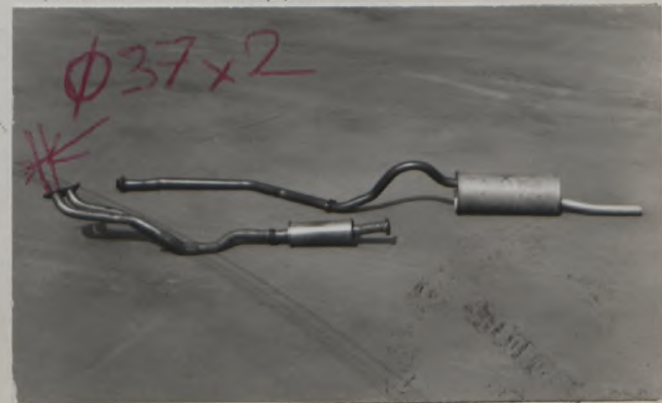
G, rear brake. drum removed or disc with caliper(s)



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold.



Handwritten red text:  $\phi 37 \times 2$  and a star symbol

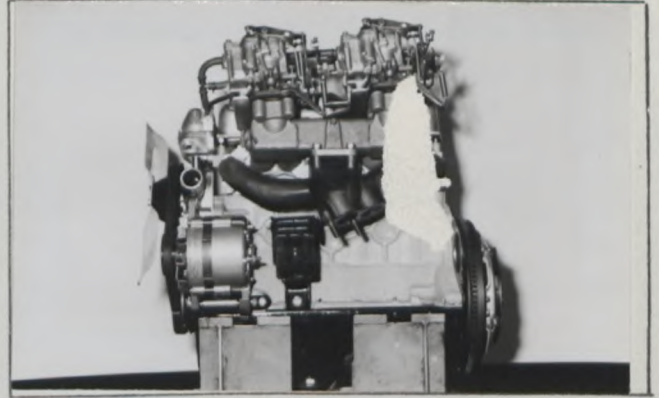
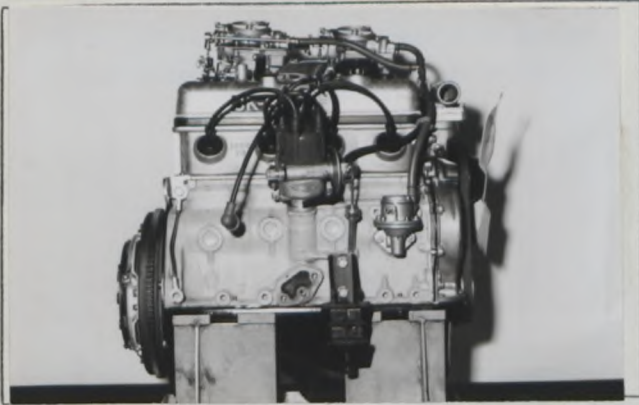
Make Toyota

Model KP31S

F. I. A. Rec. No

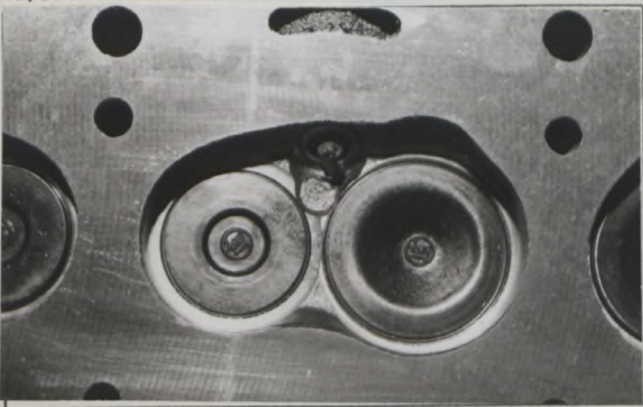
engine unit out of car, from right. With clutch and J, accessories but without air filter nor gear-box.

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



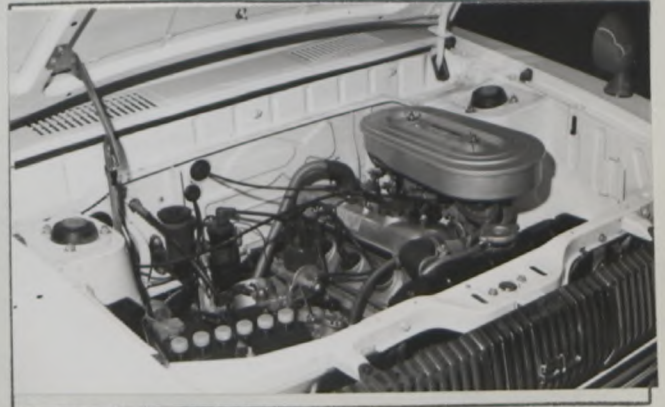
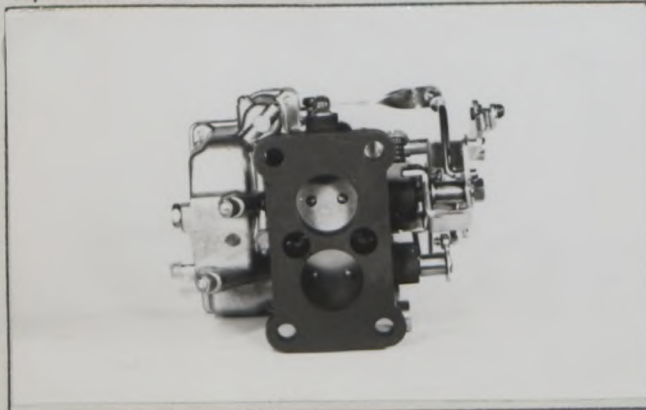
L, combustion chamber

M, piston crown



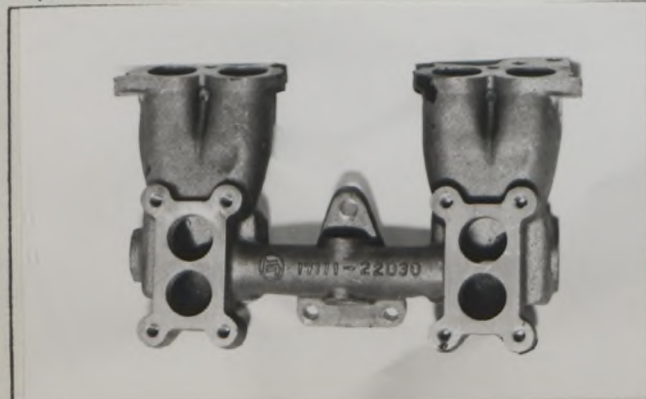
N, Carburettor (view from side of manifold)

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



P, inlet manifold

Q, exhaust manifold



Make **Toyota**Model **KP31S**

## 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<sup>2</sup> sq. in.
305. Exhaust ports, length measured around cylinder wall mm inches
306. Height exhaust port mm in. 307. Area mm<sup>2</sup> sq. in.
308. Transfer port, length measured around cylinder wall mm inches
309. Height transfer port mm in. 310. Area mm<sup>2</sup> sq. in.
311. Piston ports, length measured around piston mm inches
312. Height piston port mm in. 313. Area mm<sup>2</sup> 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 F. I. A. Homol. No

Original FIA Record No. [redacted]

1/15-  
5471

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 / normal evolution of the type

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

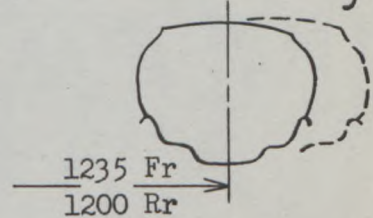
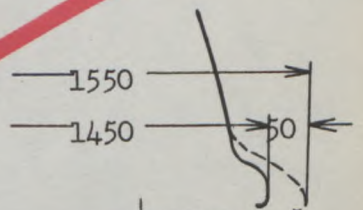
Description of amendment

Wing extensions



Front

Rear



Center of original rim  
Unit : mm

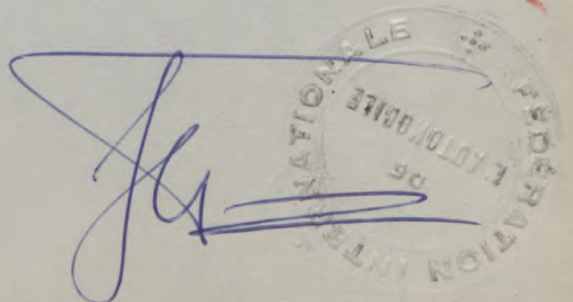
Stamp and signature of  
National Sporting Authority

Stamp and signature of F. I. A.

JAPAN AUTOMOBILE FEDERATION

難波靖治

Yasuharu Nanba





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

T-115E-3

J.A.F. 公認番号 ~~T-1155~~

発効年月日 47. 2. 29

F. I. A. Homol. No. [redacted]

5471

2/1E

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。

Model Toyota Publica SL, KP31S  
型式及び通称名  
Make Toyota Motor Co., Ltd. 製造会社名  
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 1st October, 1970  
適用年月日

Commercial denomination after application of modifications Toyota Publica SL, KP31S

The modifications are to be considered as: ~~変更~~ normal evolution of the type  
変更 / 正常進化

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



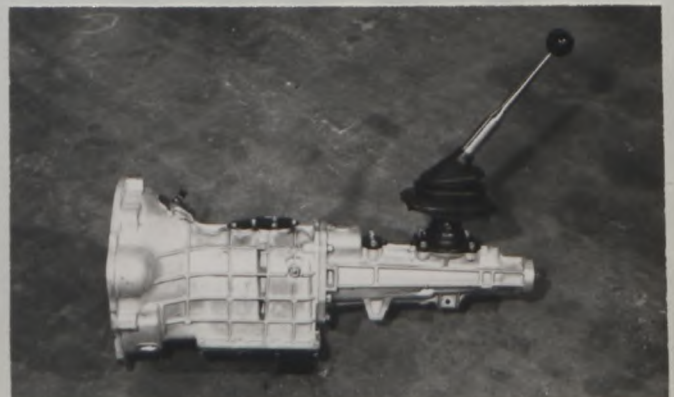
Phot. B  
3/4 view of car from rear



Phot. C  
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.

[Signature]

5471.

~~1578~~

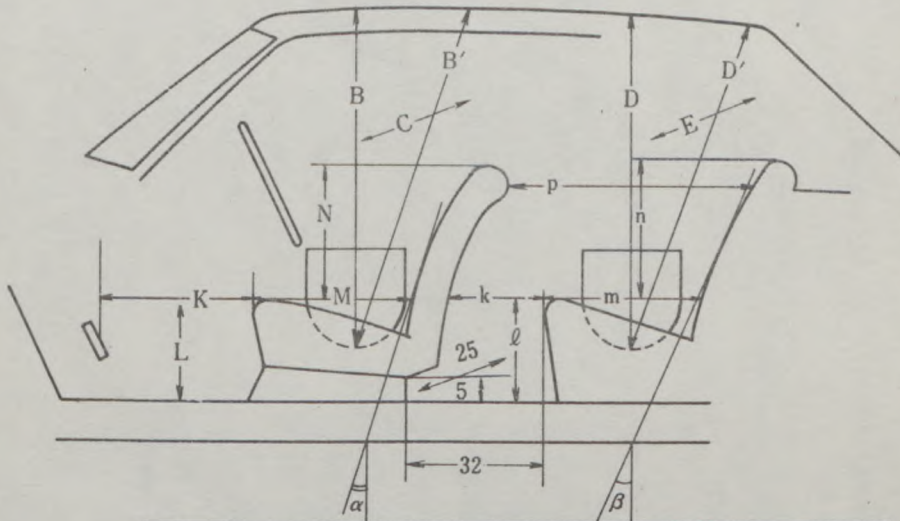
Make **Toyota**

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'	$\alpha$	C	D	D'	$\beta$	E
95	98	21°	120	94	95	25°	124

Minimum Dimensions (cm)										
L	$\ell$	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)

