



JAPAN AUTOMOBILE FEDERATION

社団・日本自動車連盟
法人

JAF公認番号 T-193

グループ 47. 4. 30

発効年月日

F. I. A. Recognition No. 5470

Group 1

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Form of recognition in 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。

Manufacturer Toyota Motor Co., Ltd
製造会社名

Serial No of chassis 製造開始シャシー番号 KP31-100001

engine 製造開始エンジン番号 3K 5570969

Recognition is valid from

Cylinder-capacity 総排気量
Reciprocation 1166 cm³ 71.1 cu.in.
レシプロ
Special cm³ cu.in.
特殊

Model 型式及び通称名 Toyota Publica, KP31

Manufacturer Toyota Motor Co., Ltd

Manufacturer Toyota Motor Co., Ltd

List

The manufacturing of the model described in this recognition form was started on Jan. 1972 and the minimum production of 5000 identical cars, in accordance with the specifications of this form was reached on April 1972

Photograph A, 3/4 view of car from front 写真A、全体写真(斜め前方)



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 JAF

JAF公認印及び署名

三井平八郎

Heihachiro Mitsui



Stamp and signature of the F. I. A.

Make Toyota

Model KP31
型式

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.

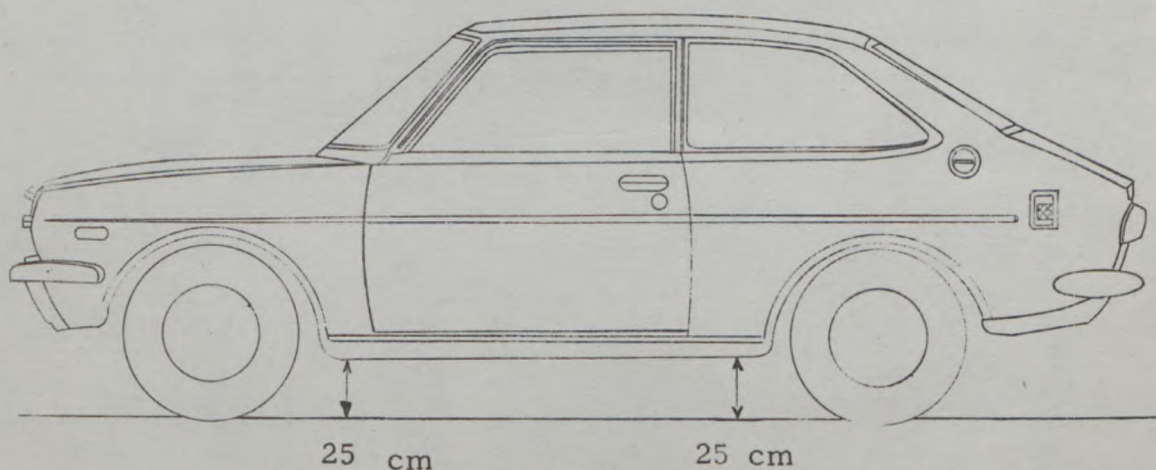
CAPACITIES AND DIMENSIONS
仕様諸元

1. <u>Wheelbase</u> ホイールベース	216.0	cm	85.1	inches
2. <u>Front track</u> トレッド (前)	123.5	cm	48.7	inches *
3. <u>Rear track</u> トレッド (後)	120.0	cm	47.3	inches *
4. Overall length of the car 全長		369.5	cm	inches
5. Overall width of the car 全幅		145.0	cm	inches
6. Overall height of the car 全高		138.5	cm	inches
7. <u>Capacity of fuel tank</u> (reserve included) 燃料タンク容量	10.6	Gallon US		40 ltrs Gallon Imp.
8. Seating capacity 定員	5			
9. <u>Weight, total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:</u> 車両重量 (冷却水、オイル、スペアタイヤを含む標準状態の車両重量、但し燃料、車載工具を除く)	640	kg	1410	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.



Width of the car measured in the vertical plane passing through the axle of the wheels.

車軸上の車体幅	Front フロント	145	cm	Rear リヤ	145	cm
---------	---------------	-----	----	------------	-----	----

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 carre	--	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

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CHASSIS AND COACHWORK (Photographs A, B and C)

シャーシー、ボデー

20. Chassis/body construction : ~~XXXXXX~~ / unitary construction
シャーシー/ボディーの構造 ~~XXXXXX~~ 一体構造
21. Unitary construction, material (s) Steel
一体構造の場合その材質
22. Separate constructions: material (s) of chassis
セパレート構造の場合その材質
23. Material (s) of coachwork
ボディーの材質
24. Number of doors 2 Material (s) Steel
ドアの数 材質
25. Material (s) of bonnet Steel
ボンネットの材質
26. Material (s) of boot lid Steel
トランクリッドの材質
27. Material (s) of rear-window Glass
リヤウインドシールドの材質
28. Material (s) of windscreen Glass
フロントウインドシールドの材質
29. Material (s) of front-door windows Glass
フロントドアウインドーの材質
30. Material (s) of rear-door windows
リヤドアウインドーの材質
31. Sliding system of door windows Vertical, Manual
ドアウインドーの開閉方式
32. Material (s) of rear-quarter light Glass
リヤクォーターウインドーの材質

***ACCESSORIES AND UPHOLSTERY**

アクセサリ

38. Interior heating : yes - ~~XXXX~~
39. Air-conditioning : ~~XXXX~~ - no
40. Ventilation : yes - ~~XXXX~~
41. Front seats, type of seats and upholstery Separate, Vinyl
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
44. Front bumper, material (s) Steel Weight 3.5 kg lbs
フロントバンパーの材質 重量
45. Rear bumper, material (s) Steel Weight 3.2 kg lbs
リヤバンパーの材質 重量

WHEELS

ホイール

50. Type Pressed steel
形式
51. Weight (per wheel, without tyre) 5.0 kg lbs
重量
52. Method of attachment 4 nuts
取付け方法
53. Rim diameter 305 mm 12 inches
リム径
54. Rim width 102 mm 4 inches
リム幅

STEERING

ステアリング

60. Type Ricerculating ball
形式
61. Servo-assistance : ~~XXXX~~ - no
パワーステアリング ~~XXXX~~ - 無
62. Number of turns of steering wheel from lock to lock 3.1
ロックツーロック
63. In case of servo-assistance

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SUSPENSION
サスペンション

- | | |
|--|----------------------|
| 70. Front suspension (photogr. D), type
フロントサスペンションの形式 | Mc. Pherson |
| 71. Type of spring
スプリングの種類 | Coil |
| 72. Stabiliser (if fitted) | Torsion bar |
| 73. Number of shockabsorbers
ショックアブソーバーの数 | 2 |
| 74. Type of rear suspension (photogr. E), type
リヤサスペンションの形式 | Hydraulic telescopic |
| 75. Type of rear suspension | Rigid |
| 76. Type of rear suspension | Leaf |
| 77. Number of shockabsorbers
ショックアブソーバーの数 | 2 |
| 82. Type of front suspension | Hydraulic telescopic |

BRAKES (photographs F and G)
ブレーキ

- | | | | | | | |
|---|------------------------|-----------------|---------|-------------------------|-----------------|---------|
| 90. System
作動方式 | Hydraulic | | | | | |
| 91. Servo-assistance (if fitted), type
サーボシステムの形式 | 1 | | | | | |
| 92. Number of hydraulic master cylinders
マスターシリンダーの数 | 1 | | | | | |
| | FRONT
フロント | | | REAR
リヤ | | |
| 93. Number of cylinders per wheel
ホイール当りのシリンダー数 | 1 | | | 1 | | |
| 94. Bore of wheel cylinder (s)
ホイールシリンダーの内径 | 44.45 | mm | in. | 17.46 | mm | in. |
| Drum Brakes
ドラムブレーキ | | | | | | |
| 95. Inside diameter
ドラムの内径 | | mm | in. | 200 | mm | in. |
| 96. Length of brake linings
ライニングの長さ | | mm | in. | 192 | mm | in. |
| 97. Width of brake linings
ライニングの幅 | | mm | in. | 30 | mm | in. |
| 98. Number of shoes per brake
ブレーキ当りのシューの数 | 2 | | | | | |
| 99. Total area per brake
1ブレーキ当りの総摩擦面積 | | mm ² | sq. in. | 115.2 × 10 ² | mm ² | sq. in. |
| Disc brakes
ディスクブレーキ | | | | | | |
| 100. Outside diameter
ディスクの外径 | 200 | mm | in. | | mm | in. |
| 101. Thickness of disc
ディスクの厚さ | 9 | mm | in. | | mm | in. |
| 102. Length of brake linings
パッドの長さ | 97 | mm | in. | | mm | in. |
| 103. Width of brake linings
パッドの幅 | 37 | mm | in. | | mm | in. |
| 104. Number of pads per brake
ブレーキ当りのパッドの数 | 2 | | | | | |
| 105. Total area per brake
1ブレーキ当りの総摩擦面積 | 61.0 × 10 ² | mm ² | sq. in. | | mm ² | sq. in. |

Make **Toyota**

Model **KP31**
型式

F.I.A. Rec. No.

ENGINE (photographs J and K) **

エンジン

- | | | | |
|---|----------------|-------------------------------|--------------------------------|
| 130. Cycle | 4 | 131. Number of cylinders | 4 |
| サイクル | | シリンダー数 | |
| 132. Cylinder arrangement | In line | | |
| シリンダー配列 | | | |
| 133. Bore | 75.0 mm | 134. Stroke | 66.0 mm |
| ボア | | ストローク | |
| | 2.96 in. | | 2.60 in. |
| 135. Capacity per cylinder | | 291.4 cm ³ | 17.78 cu. in. |
| 1シリンダーの排気量 | | | |
| 136. Total cylinder-capacity | | 1166 cm ³ | 71.15 cu. in. |
| 総排気量 | | | |
| 137. Material (s) of cylinder block | Cast iron | | |
| シリンダーブロックの材質 | | | |
| 138. Material (s) of sleeves (if fitted) | | | |
| スリーブの材質 | | | |
| 139. Cylinder-head, material (s) | Aluminum alloy | Number fitted | 1 |
| シリンダーヘッドの材質 | | 数 | |
| 140. Number of inlet ports | 4 | 141. Number of exhaust ports | 4 |
| 吸気孔の数 | | 排気孔の数 | |
| 142. Compression ratio | 9.0 | | |
| | | | |
| 143. Volume of one combustion chamber | | 36.4 cm ³ | cu. in. |
| | | | |
| 144. Piston, material | Aluminum alloy | 145. Number of rings | 3 |
| ピストンの材質 | | リングの数 | |
| 146. Distance from gudgeon pin centre line to highest point of piston crown | 36 mm | | |
| | | | |
| | | | |
| 147. Crankshaft : moulded / stamped | | 148. Type of crankshaft : | integral / XXXXXXXX |
| クランクシャフト 鋳造 / 鍛造 | | クランクシャフトの形式 : | 一体式 / XXXXXXXX |
| 149. Number of crankshaft main bearings | 5 | | |
| メインベアリングの数 | | | |
| 150. Material of bearing cap | Cast iron | | |
| ベアリングキャップの材質 | | | |
| 151. System of lubrication : dry sump / oil in sump | | | |
| 潤滑方式 : ドライサンプ / ウェットサンプ | | | |
| 152. Capacity, lubricant | 3.5 ltrs | | |
| 潤滑油量 | | | |
| 153. Oil cooler : yes / no | | 154. Method of engine cooling | Water |
| オイルクーラー : 有 / 無 | | エンジン冷却方式 | |
| 155. Capacity of cooling system | 4.7 ltrs | | |
| | | | |
| 156. Cooling fan (if fitted), dia. | 240 mm | | |
| | | | |
| 157. Number of blades of cooling fan | 4 | | |

Bearings **
ベアリング

- | | | | | |
|------------------------------|-------|---------|-------|-----|
| 158. Crankshaft main, type | Plain | Dia. 内径 | 50 mm | in. |
| メインベアリングの形式 | | | | |
| 159. Connecting rod big end, | Plain | Dia. 内径 | 45 mm | in. |
| コンロッド大端部ベアリングの形式 | | | | |

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 | |

** for additional information concerning Wankel rotary engines see page 15, 16
ロータリーエンジンは15, 16頁参照

Make Toyota

Model KP31
型式

F.I.A. Rec. No.

FOUR STROKE ENGINES * , **

4サイクルエンジン

- 170. Number of camshafts **1**
カムシャフトの数
- 172. Type of camshaft drive
カムシャフトの駆動方式
- 173. Type of valve operation
バルブの作動方式

Chain
Push rod

- 171. Location
カムシャフトの位置

Cylinder block

INLET (see page 8) * , **
吸気系

- 180. Material(s) of inlet manifold **Aluminum alloy**
マニホールドの材質
- 181. Diameter of valves **35** mm
- 182. Max. valve lift **8.8** mm **0.35** in.
- 184. Type of spring **Coil**
バルブスプリングの種類
- 186. Tappet clearance for checking timing (cold)
- 187. Valves open at (with tolerance for tappet clearance indicated)
- 188. Valves close at (with tolerance for tappet clearance indicated)
- 189. Air filter, type **Dry**

- 183. Number of valve springs **1**
バルブスプリングの数
- 185. Number of valves per cylinder **1**
シリンダー当りのバルブの数
- 0.08 mm
- B.T.D.C. $16^{\circ} \pm 2.5^{\circ}$
- A.B.D.C. $50^{\circ} \pm 2.5^{\circ}$

EXHAUST (see page 8) * , **
排気系

- 195. Material (s) of exhaust manifold **Cast iron**
マニホールドの材質
- 196. Diameter of valves **29** mm
- 197. Max. valve lift **8.4** mm **0.33** in.
- 199. Type of spring **Coil**
バルブ・スプリングの種類
- 201. Tappet clearance for checking timing (cold)
- 202. Valves open at (with tolerance for tappet clearance indicated)
- 203. Valves close at (with tolerance for tappet clearance indicated)

- 1.14 inches
- 198. Number of valve springs **1**
バルブスプリングの数
- 200. Number of valves per cylinder **1**
シリンダー当りのバルブの数
- 0.18 mm
- B.B.D.C. $50^{\circ} \pm 2.5^{\circ}$
- A.T.D.C. $16^{\circ} \pm 2.5^{\circ}$

CARBURETION (photograph N)
気化器

- 210. Number of carburetors fitted **1**
キャブレターの数
- 212. Make **Aisan**
製造会社
- 214. Number of mixture passages per carburettor **2**
キャブレター当りのバルブ数
- 215. Flange hole diameter of exit port(s) of carburettor
- 216. Minimum dimensions of mixture passage (s) ~~XXXXXX~~
ベジチュリーの最小寸法 (XXXXXX)

- 211. Type **Down draught**
形式
- 213. Model **3K**
型式
- 28^φ & 28^φ mm
- inches
- 21^φ & 24^φ mm
- inches

INJECTION (if fitted)
燃料噴射

- 220. Make of pump
ポンプの製造会社
- 222. Model or type of pump
ポンプの型式
- 224. Location of injectors
ノズルの位置
- 225. Minimum diameter of inlet pipe
吸気管の最小径

- 221. Number of plungers
プランジャーの数
- 223. Total number of injectors
ノズルの総数
- mm
- inches

*) for additional information concerning two-stroke engines and super-charged engines see page 14.
2サイクルエンジン、過給機付エンジンは14頁参照

**) for additional information concerning Wankel rotary engines see page 15, 16.
ロータリーエンジンは15, 16頁、参照



ENGINE ACCESSORIES

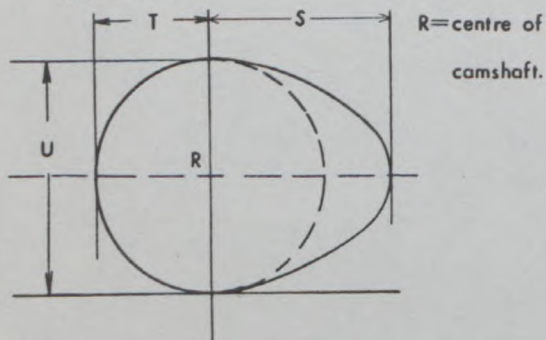
エンジン補機

- | | | |
|---|---|-------------------|
| 230. Fuel pump : mechanical XXX / electric
燃料ポンプ 機械式 XXX 電気式 XXX | 231. No. fitted
ポンプの数 | 1 |
| 232. Type of ignition system
点火方式 | 233. No. of distributors
ディストリビューターの数 | Make & break
1 |
| 234. No. of ignition coils
コイルの数 | 235. No. of spark plugs per cylinder / coil
シリンダー当りのプラグ数 XXXXXXX | 1
1 |
| 236. Generator, type: dynamo / alternator-number fitted
発電機 XXXX / 交流 数 | 237. Method of drive
駆動方式 | 1
V belt |
| 238. Voltage of generator
発電機電圧 | 239. Battery, number
バッテリーの数 | 12 volts
1 |
| 240. Location
バッテリー位置 | | Engine room |
| 241. Voltage of battery
バッテリー電圧 | | 12 volts |

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

- | | | |
|-------------------------------|----------------------------------|-----------------------------|
| 250. Max. engine output | 68 PS (type of horsepower: JIS) | at 6000 rpm |
| 251. Maximum rpm | 6500 | output at that figure 66 PS |
| 252. Maximum torque | 9.5 kg-m | at 3800 rpm |
| 253. Maximum speed of the car | 145 | km/hour miles / hour |

255. Cam profile
カムプロフィール



Inlet cam

吸気カム

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

Exhaust cam

排気カム

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

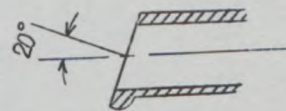
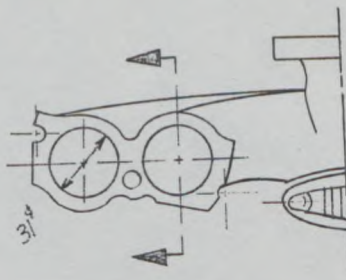
Make Toyota

Model KP31
型式

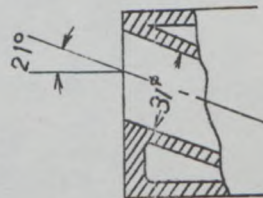
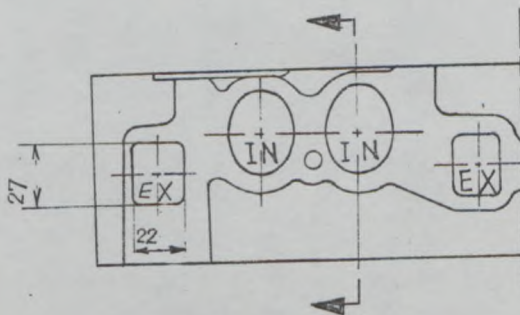
J·A·F 公認番号

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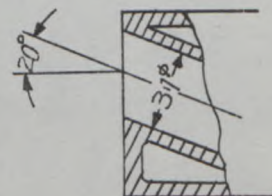
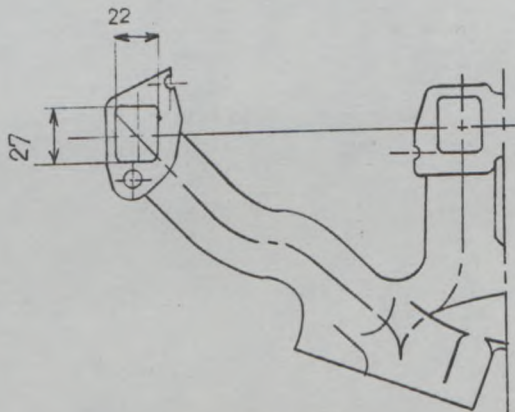
Drawing inlet manifold ports, side of cylinder-head. ~~XXXXXX~~ scale or dimensions and manufacturing tolerance.



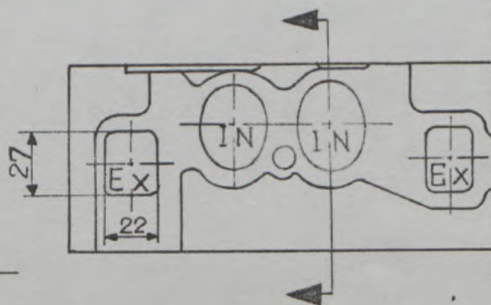
Drawing of entrance to inlet port of cylinder-head. ~~XXXXXX~~ scale or dimensions and manufacturing tolerance.



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



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



Unit: mm
Tolerance: ±1

Make Toyota

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DRIVE TRAIN
駆動系

CLUTCH
クラッチ

260. Type of clutch 形式 Dry single plate
262. Dia. of clutch plates 183 mm inches
263. Dia. of linings, inside 125 mm in. outside
264. Method of operating clutch 機械式 Mechanical

261. No. of plates 1
プレッシャープレートの数
180 mm in.

GEAR BOX (photograph H)
トランスミッション

270. Manual type, make Toyota
271. No. of gear-box ratios forward 4
273. Location of gear-shift Floor
274. Automatic, make
275. No. of forward ratios

- Method of operation Mechanical
272. Synchronized forward ratios 1, 2, 3 & 4
276. Location of gear-shift
type
形式
シフトレバーの位置

277.	Manual 手動		Automatic 自動		Alternative manual / automatic 手動 / 自動			
	Ratio ギヤー比	No. teeth 歯数	Ratio ギヤー比	No. teeth 歯数	Ratio ギヤー比	No. teeth 歯数	Ratio ギヤー比	No. teeth 歯数
1	3.68	$\frac{32}{19} \times \frac{35}{16}$			2.83	$\frac{32}{19} \times \frac{32}{19}$		
2	2.05	$\frac{32}{19} \times \frac{28}{23}$			1.89	$\frac{32}{19} \times \frac{23}{24}$		
3	1.38	$\frac{32}{19} \times \frac{23}{28}$			1.38	$\frac{32}{19} \times \frac{23}{28}$		
4	1.00				1.00			
5								
6								
reverse リバース	4.31	$\frac{32}{19} \times \frac{41}{16}$			4.31	$\frac{32}{19} \times \frac{41}{16}$		

278. Overdrive, type
279. Forward gears on which overdrive can be selected
280. Overdrive ratio

FINAL DRIVE
ファイナル

290. Type of final drive 形式 Hypoid gear
291. Type of differential 差動機形式 Bevel gear
292. Type of limited slip differential (if fitted)
293. Final drive ratio 4.22 , 4.44
ギヤー比 38/9 , 40/9
Number of teeth 歯数

Make Toyota

Model KP31
型式

J.A.F 公認番号

T-193

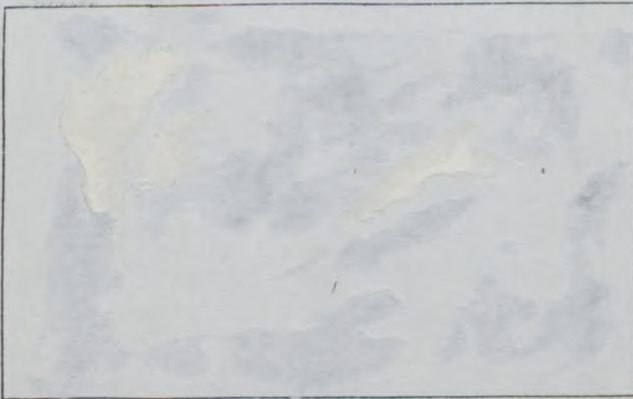
F.I.A. Rec. No.

Optional equipment affecting preceding information. This to be stated together with reference number.
オプション:

Photograph

写真

B, 3/4 view of car from rear 全体写真 (斜め後方)



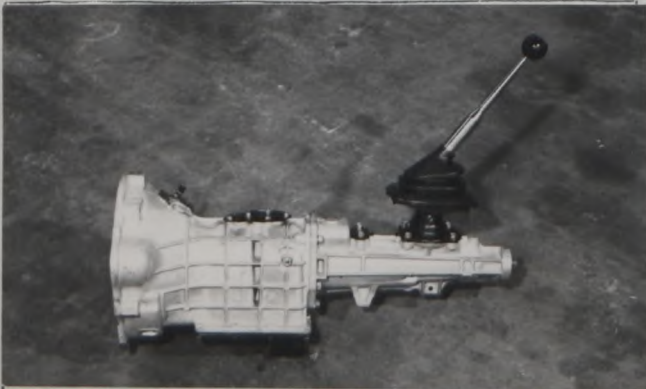
D, Front axle complete, removed from car. Without wheels.
フロントサスペンション



F, Front brake, drum removed. Disc with caliper(s)
フロントブレーキ



H, Gear-box, view from side トランスミッション



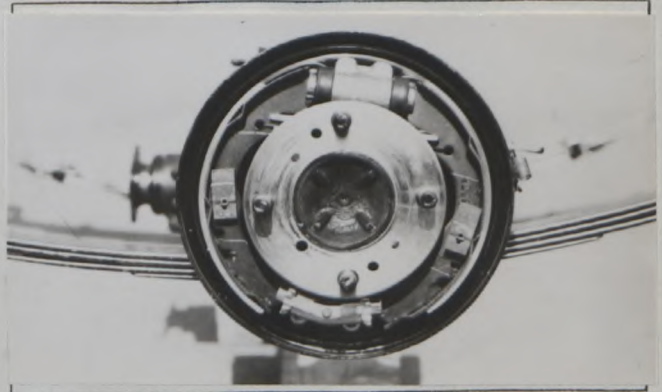
C, Interior view of car through driver's door (open or removed) with dashboard 運転席附近



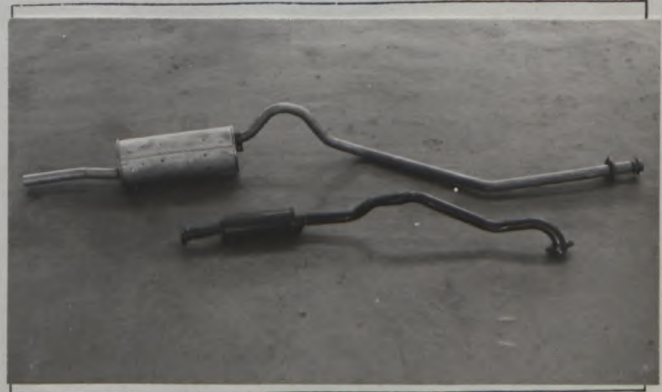
E, Rear axle complete without wheels, removed from car.
リヤサスペンション



G, Rear brake, drum removed. Disc with caliper(s)
リヤブレーキ



I, Silencer + exhaust pipes after exhaust manifold. 排気系

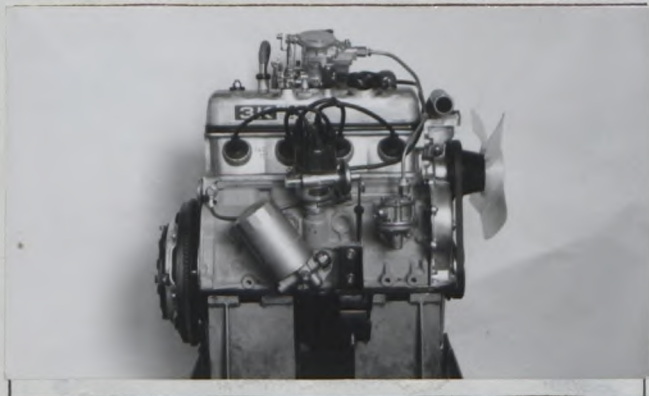


Make Toyota

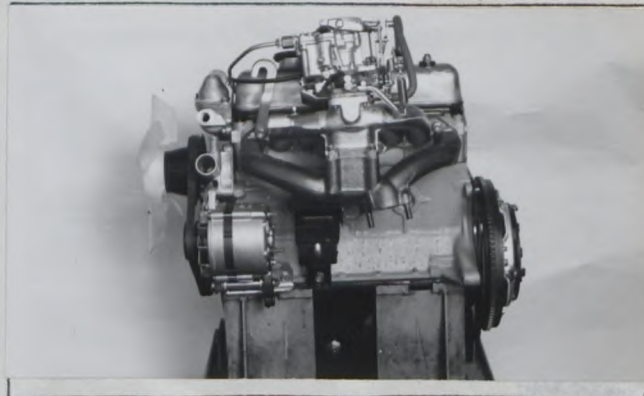
Model KP31
型式

Photograph

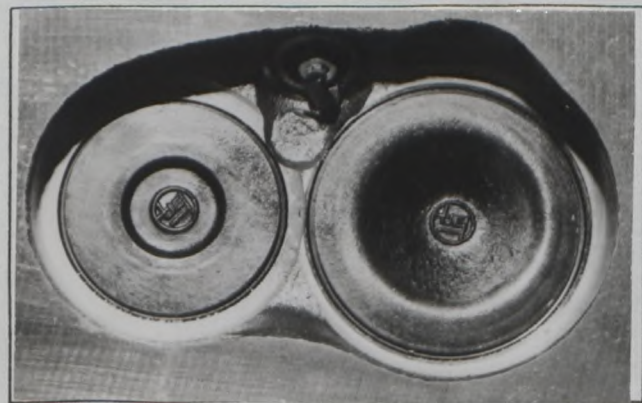
J, Engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box. エンジン右側面



K, Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter. エンジン左側面



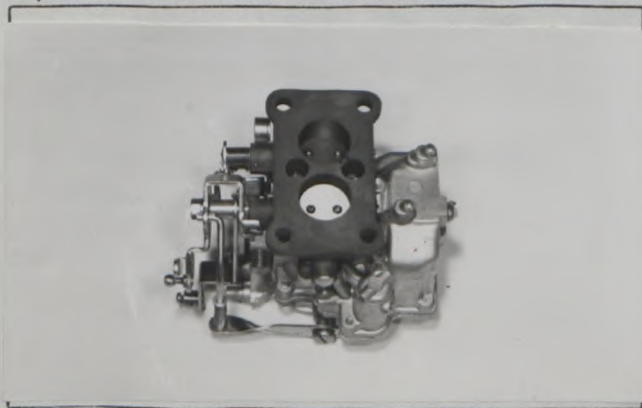
L, Combustion chamber 燃焼室 / ~~Rotor housing~~XXXXXXXXX



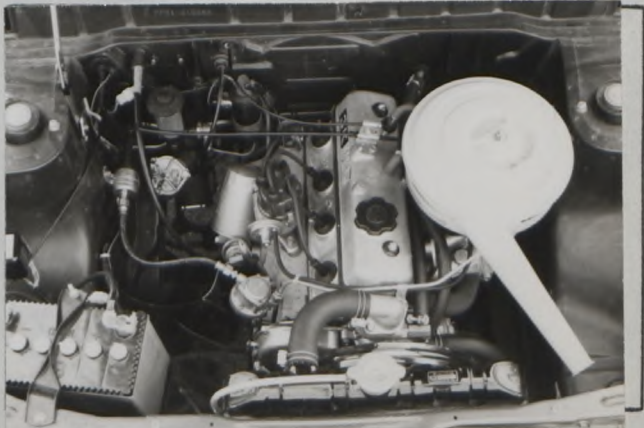
M, Piston crown ピストンクラウン / ~~Rotor housing~~XXXXX



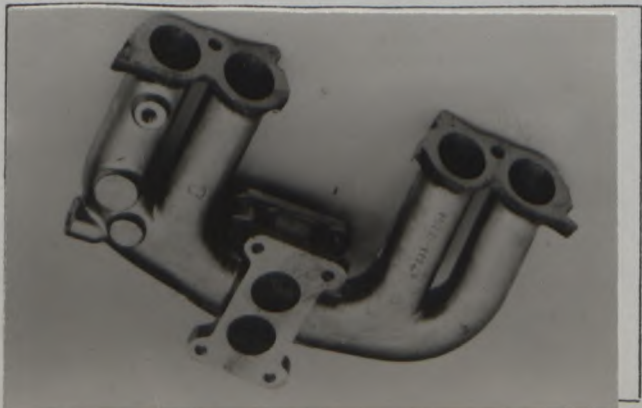
N, Carburettor (view from side of manifold) 気化器



O, Engine in car with all accessories, bonnet open or removed. エンジンルーム



P, Inlet manifold 吸気マニホールド



Q, Exhaust manifold 排気マニホールド



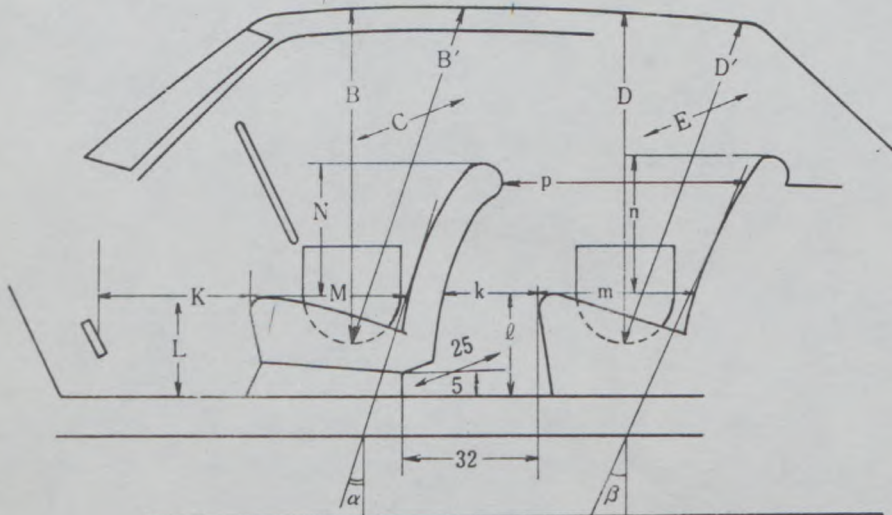
Make Toyota

Model KP31
型式

J·A·F公認番号
F.I.A. Rec. No.

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

For four seaters:
4座席

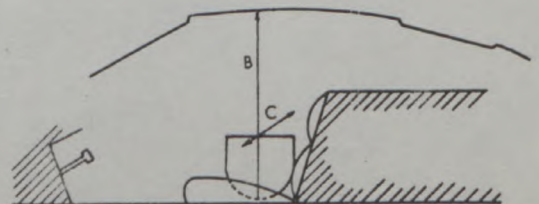


Minimum Dimensions (cm)							
B	B'	α	C	D	D'	β	E
95.0	98.0	21°	120.0	94.0	95.0	25°	124.0

Minimum Dimensions (cm)										
L	ℓ	M	m	N	n	k+m	p	k	k+ ℓ +m	K+L+M
29.0	34.0	49.0	46.0			62.0	70.0	16.0	96.0	121.0
0.9L = 26.1		0.85M = 41.6		0.85N = 40.8		0.8(k+m) = 49.6		(15)	(95)	(120)

For two seaters:
2座席

Minimum Dimensions	
B	C
cm	cm



Make Toyota

Model
型式

KP31

F.I.A. Rec. No.

TWO STROKE ENGINES

2 サイクルエンジン

300. System of cylinder scavenging 掃気方式					
301. Type of lubrication 潤滑方式					
302. Inlet ports, length measured around cylinder wall 吸気孔の幅			mm		inches
303. Height inlet port 吸気孔の高さ	mm	in.		304. Area 吸気孔の総面積	mm ² sq. in.
305. Exhaust ports, length measured around cylinder wall 排気孔の幅			mm		inches
306. Height exhaust port 排気孔の高さ	mm	in.		307. Area 排気孔の総面積	mm ² sq. in.
308. Transfer port, length measured around cylinder wall 掃気孔の幅			mm		inches
309. Height transfer port 掃気孔の高さ	mm	in.		310. Area 掃気孔の総面積	mm ² sq. in.
311. Piston ports, length measured around piston ピストンポートの幅			mm		inches
312. Height piston port ピストンポートの高さ	mm	in.		313. Area ピストンポートの総面積	mm ² sq. in.
314. Method of precompression プレコンプレッション方式				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 : 排気孔の最高点とブロック上面との距離			mm		inches
319. Distance from top of cyl. block to lowest point of inlet port : 吸気孔の最下点とブロック上面との距離			mm		inches
320. Distance from top of cyl. block to highest point of transfer port : 掃気孔の最高点とブロック上面との距離			mm		inches
321. Drawing of cylinder ports. シリンダーポート展開図					

330. Supercharging—state full details hereafter :
過給器

Unit: mm

Tolerance:

Make Toyota

Model KP31
型式

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Wankel Rotary Engine (photographs J and K)

ロータリーエンジン

400. Type & cycle 形式及びサイクル			
401. No of rotors ローターの数			
402. Rotor arrangement ローターの配列			
403. Trochoid, length of major Axis トロコイド長軸長さ	mm		in.
404. Trochoid, length of minor Axis トロコイド短軸長さ	mm		in.
405. Trochoid, width トロコイドの幅	mm		in.
406. Trochoid, generating radius (Containing equidistance) トロコイドの生成半径 (平行移動量を含む)	mm		in.
407. Eccentricity 偏心量	mm		in.
408. Capacity per Rotor 1ローター当りの排気量	cm ³		cu. in.
409. Total capacity 総排気量	cm ³		cu. in.
410. Equivalent total capacity (by App. J Art. 252) 換算総排気量 (J項 252条による)	cm ³		cu. in.
411. Material(s) of side housing サイドハウジングの材質			
412. Material(s) of rotor housing ローターハウジングの材質			
413. Number of inlet ports 吸気孔の数			
414. Number of exhaust ports 排気孔の数			
415. Compression ratio			
416. Volume of one combustion chamber	cm ³		cu. in.
417. Rotor material ローターの材質			
418. Number of apex seal per rotor ローター当りのアベックスシールの数			
419. Number of corner seal per rotor ローター当りのコーナースीलの数			
420. Number of side seal per rotor ローター当りのサイドシールの数			

Make Toyota

Model KP31
型式

F.I.A. Rec. No.

421. Number of oil scraping ring per rotor

1 ローター当りのオイルリングの数

422. Eccentric shaft: moulded/stamped

偏心軸: 鋳造/鍛造

423. Type of eccentric shaft: integral/

偏心軸の形式: 一体式/

424. Number of eccentric shaft main bearings

メインベアリングの数

Bearing

ベアリング

440. Eccentric shaft, main

メインベアリング

Type

形式

Dia.

内径

mm

in.

441. Rotor bearing

ローターベアリング

Type

形式

Dia.

外径

mm

in.

Weights

450. Flywheel (clean)

kg

451. Flywheel with clutch (all turning parts)

kg

452. Eccentric shaft

kg

453. Rotor with seals, gear and bearing

kg

Inlet (See page 8)

吸気系

460. Material(s) of inlet manifold

マニホールドの材質

461. Location of inlet ports

吸気孔の位置

462. Inlet port area per rotor.

mm²

sq. in.

463. Inlet port open at (with tolerance)

吸気孔開き始め (公差を含む)

464. Inlet port close at (with tolerance)

吸気孔閉じ終り (公差を含む)

465. Air filter type

Exhaust (See page 8)

排気系

470. Material(s) of exhaust manifold

マニホールドの材質

471. Location of exhaust Ports

排気孔の位置

472. Exhaust port area per rotor

mm²

sq. in.

473. Exhaust port open at (with tolerance)

排気孔開き始め (公差を含む)

474. Exhaust port close at (with tolerance)

排気孔閉じ終り (公差を含む)

Make Toyota

Model
型式 KP31

Optional

1. COACHWORK

Photo, A

3/4 view of car from front



Photo, B

3/4 view of car from rear



Photo, C

interior view of car through
driver's door with dashboard



Toyota Publica XL , KP31-G



Make Toyota

Model
型式 KP31

F.I.A. Rec. No.

2. ENGINE (Photographs J and K)

142, Compression ratio 10.0
 143, Volume of one combustion chamber 32.4 cm³

Carburetion (Photographs N)

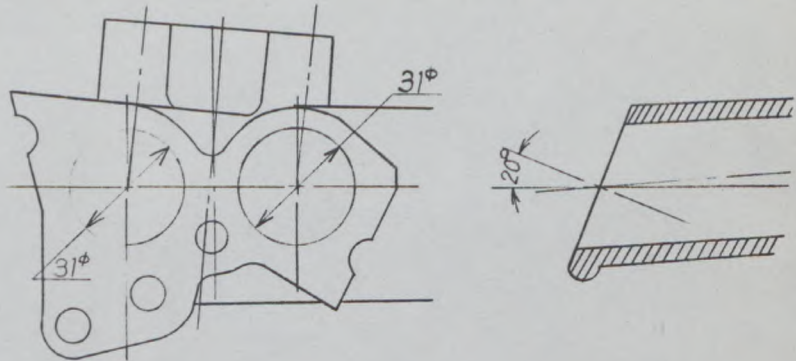
210, Number of carburetors fitted 2
 213, Model 3K-B
 216, Minimum dimensions of mixture pasage(S) 18^φ & 24^φ mm

Engine and car performances (as declared by manufacturer in catalogue)

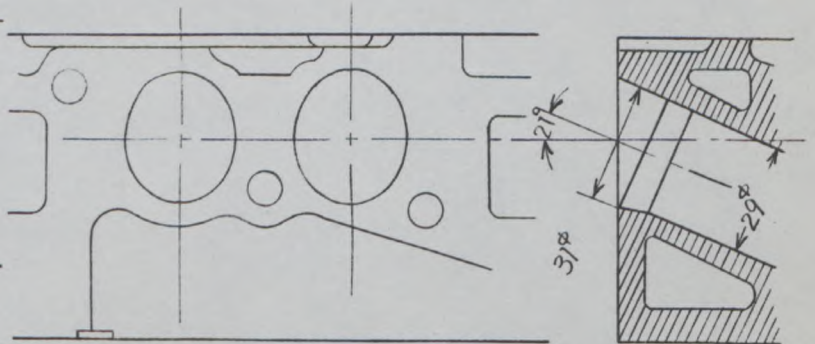
250, Max. engine output 77PS (type of horsepower: JIS) at 6600rpm
 251, Maximum rpm 6700 output at that figure 76.5PS
 252, Maximum torque 9.6 kg-m at 4600rpm
 253, Maximum speed of the car 160 km/hour



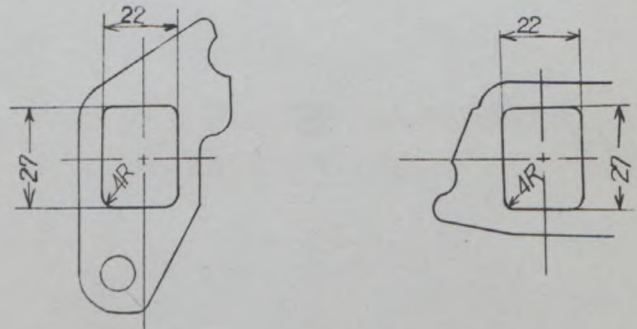
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



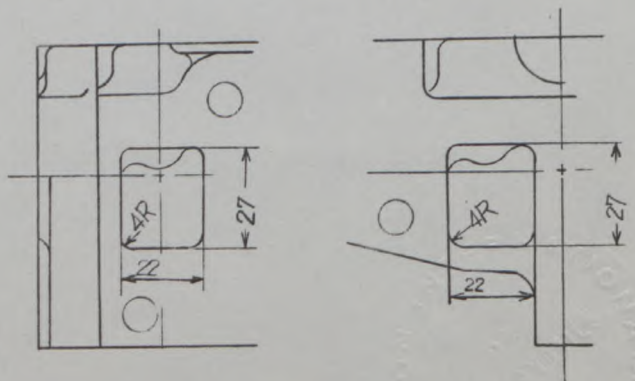
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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.



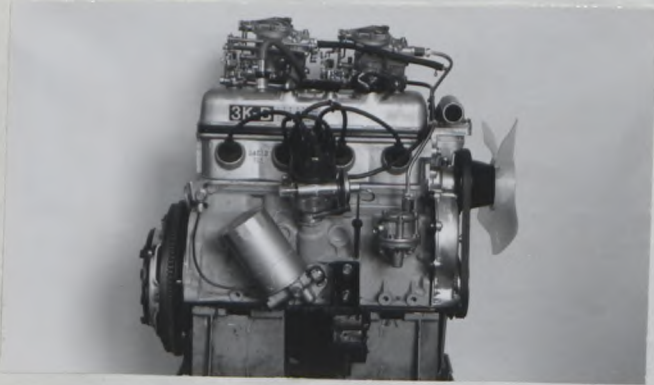
Unit : mm
Tolerance : ±1

Make Toyota

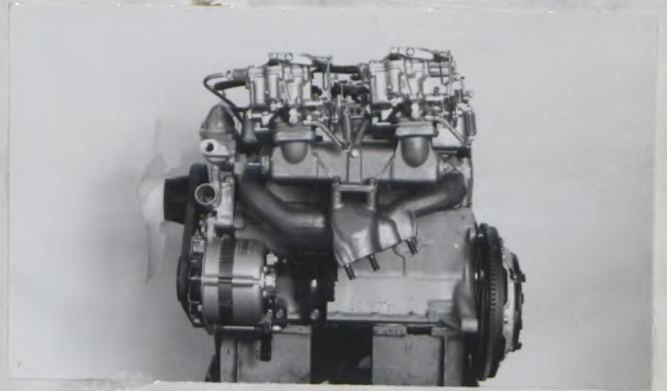
Model KP31
型式

Photograph

J, engine unit out of car from right



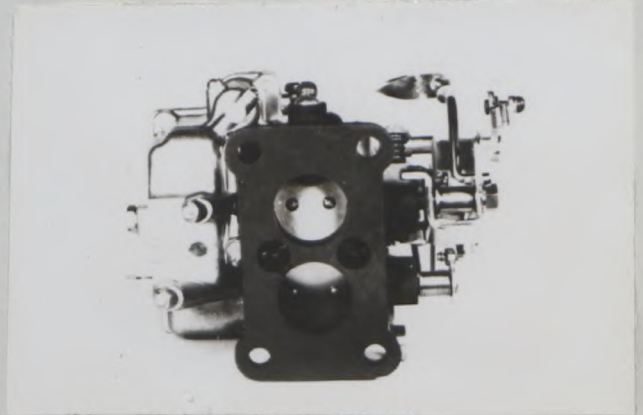
K, engine unit out of car from left



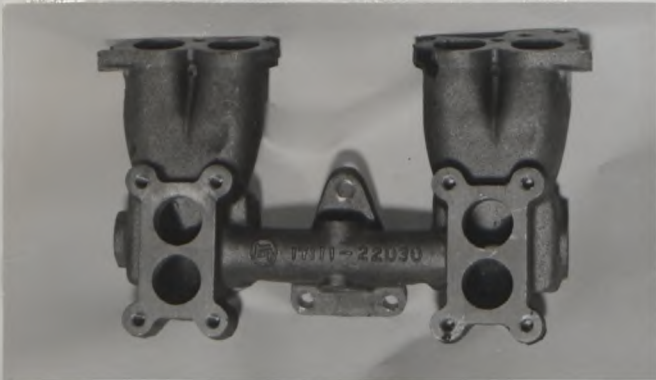
L, Combustion chamber



N, carburettor (view from side of manifold)



P, inlet manifold



Q, exhaust manifold



Make Toyota

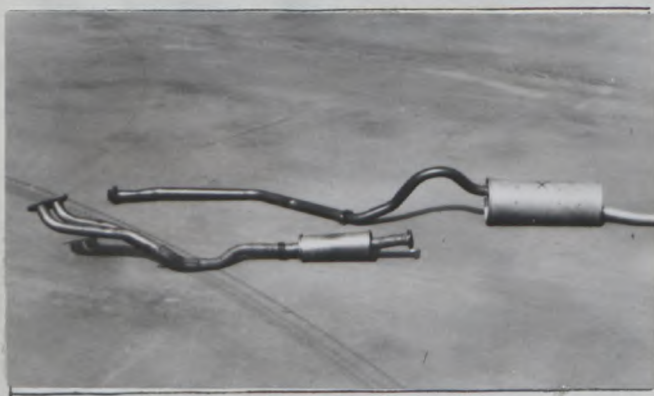
Model
型式 KP31

J.A.F 公認番号

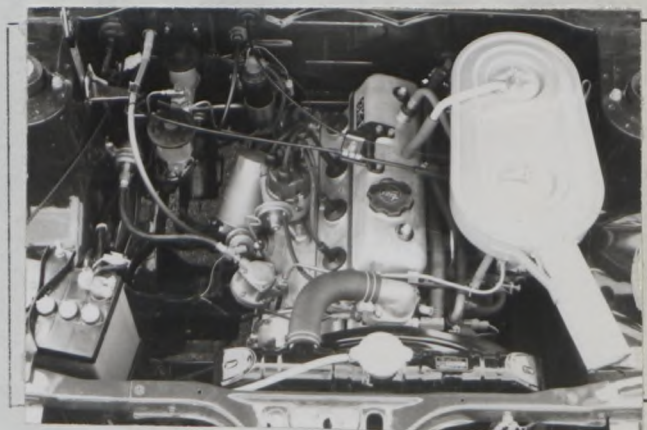
F.I.A. Rec. No.

Photograph

I, silencer + exhaust pipes
after exhaust manifold



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



3. FINAL DRIVE

293, Final drive ratio
Number of teeth

4.62

37/8

Make Toyota

Model KP31
型式

J·A·F公認番号
F.I.A. Rec. No.

Optional

NOT VALID FOR GROUP 1 ONLY

1. BRAKE

Disc brake on front

93, Number of cylinders per wheel	1
94, Bore of wheel cylinder(s)	47.6 mm
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 x 10 ² mm ²



Part No, 47710-20010
47720-20010

Photo. F, Front brake disc with caliper(s)

~~2. WING EXTENSIONS~~



Front

Part No. Fr. 00561-16030
00561-16040

Rr. 00561-16050
00561-16060



Rear