



JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

JAF公認番号 T-169
グループ ワーリントーカー
発効年月日 71.4月末日
F. I. A. Recognition No. 5417
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 製造会社名 Toyota Motor Co., Ltd.

Serial No of chassis 製造開始シャシー番号 TA10-000001

engine 製造開始エンジン番号 T 0001001

Recognition is valid from 1st July 1971

The manufacturing of the model described in this recognition form was started on Nov. 1970 and the minimum production of 5000 identical cars, in accordance with the specifications of this form was reached on April, 1971

Cylinder-capacity 総排気量 { Reciprocation レシプロ 1407 cm³ 85.9 cu.in.
Special 特殊 cm³ cu.in.

Model 型式及び通称名 Toyota Carina 1400, TA10-K

Manufacturer 製造会社名 Toyota Motor Co., Ltd.

Manufacturer 製造会社名 Toyota Motor Co., Ltd.

List 71/7

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

庭山博史

Hiroshi Niwayama

Stamp and signature of the F. I. A.

Make **Toyota**

Model **TA10-K**
型式

J·A·F公認番号 **T-169**
F.I.A. Rec. No. **5417**

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

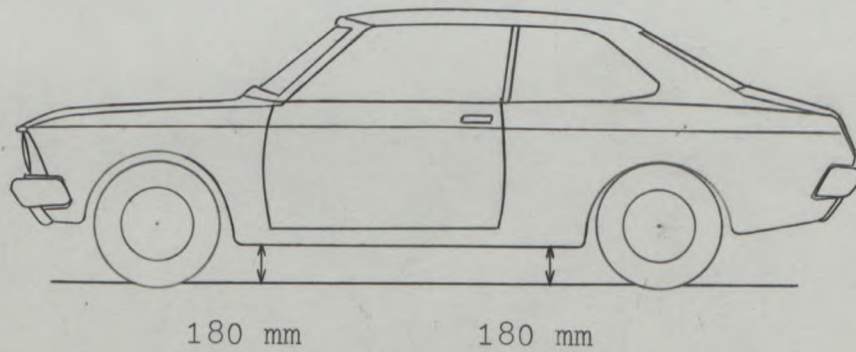
CAPACITIES AND DIMENSIONS
仕様諸元

1. <u>Wheelbase</u> ホイールベース	242.5	cm	95.5	inches
2. <u>Front track</u> トレッド(前)	128.0	cm	50.4	inches *
3. <u>Rear track</u> トレッド(後)	128.5	cm	50.6	inches *
4. Overall length of the car 全長	413.5	cm		inches
5. Overall width of the car 全幅	157.0	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	13.2	Gallon US	50	ltrs Gallon Imp.
8. Seating capacity 定員	5			
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools: 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)	815	kg	1796	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.



Unit : mm

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	157	cm	Rear リヤ	157	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

Model TA10-K
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F.I.A. Rec. No.

CHASSIS AND COACHWORK (Photographs A, B and C)

- シャーシー、ボデー
20. Chassis/body construction : ~~separate~~ / unitary construction
シャーシー/ボディーの構造 ~~独立構造~~ / 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 Steel
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
リア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 Glass
リア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
リアクォーターウインドーの材質

ACCESSORIES AND UPHOLSTERY

アクセサリ

38. Interior heating : ~~XXX~~ - no 39. Air-conditioning : ~~XXX~~ - no
40. Ventilation : yes - ~~XXX~~
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 :
12 kg x2 lbs
43. Rear seats, type of seats and upholstery Bench, Vinyl
44. Front bumper, material (s) Steel Weight 5.5 kg lbs
フロントバンパーの材質 重量
45. Rear bumper, material (s) Steel Weight 4.0 kg lbs
リアバンパーの材質 重量

WHEELS

ホイール

50. Type Pressed steel
形式
51. Weight (per wheel, without tyre) 5.5 kg lbs
重量
52. Method of attachment 4 Nuts
取付け方法
53. Rim diameter 330 mm 13 inches
リム径
54. Rim width 114 mm 4 inches
リム幅

STEERING

ステアリング

60. Type Recirculating ball
形式
61. Servo-assistance : ~~XXX~~ - no
パワーステアリング ~~有~~ - 無
62. Number of turns of steering wheel from lock to lock 3.5
ロックツノーロック
63. In case of servo-assistance

SUSPENSION

サスペンション

70. Front suspension (photogr. D), type Mcpherson
フロントサスペンションの形式
71. Type of spring Coil
スプリングの種類
72. Stabiliser (if fitted) Torsion bar
73. Number of shockabsorbers 2 74. Type
ショックアブソーバーの数 形式
78. Rear suspension (photogr. E), type Hydraulic telescopic
リヤサスペンションの形式 Rigid
79. Type of spring Coil
スプリングの種類
80. Stabiliser (if fitted)
81. Number of shockabsorbers 2 82. Type
ショックアブソーバーの数 形式
82. Type Hydraulic telescopic

BRAKES (photographs F and G)

ブレーキ

90. System Hydraulic
作動方式
91. Servo-assistance (if fitted), type
92. Number of hydraulic master cylinders 1
マスターシリンダーの数

		FRONT フロント		REAR リヤ	
93. Number of cylinders per wheel	2		1		
94. Bore of wheel cylinder (s)	23.8	mm	in. 17.5	mm	in.
Drum Brakes					
ドラムブレーキ					
95. Inside diameter	229	mm	in. 229	mm	in.
ドラムの内径					
96. Length of brake linings	219	mm	in. 219	mm	in.
ライニングの長さ					
97. Width of brake linings	45	mm	in. 40	mm	in.
ライニングの幅					
98. Number of shoes per brake	2		2		
ブレーキ当りのシューの数					
99. Total area per brake	197 x 10 ²	mm ²	sq. in. 175 x 10 ²	mm ²	sq. in.
1 ブレーキ当りの総摩擦面積					
Disc brakes					
ディスクブレーキ					
100. Outside diameter		mm	in.	mm	in.
ディスクの外径					
101. Thickness of disc		mm	in.	mm	in.
ディスクの厚さ					
102. Length of brake linings		mm	in.	mm	in.
パッドの長さ					
103. Width of brake linings		mm	in.	mm	in.
パッドの幅					
104. Number of pads per brake,					
ブレーキ当りのパッドの数					
105. Total area per brake		mm ²	sq. in.	mm ²	sq. in.
1 ブレーキ当りの総摩擦面積					

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ENGINE (photographs J and K) **

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	80 mm	134. Stroke	70 mm
ボア		ストローク	
135. Capacity per cylinder	352		2.76 in.
1シリンダーの排気量		cm ³	21.48 cu. in.
136. Total cylinder-capacity	1407		85.86 cu. in.
総排気量		cm ³	
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	8.5		
143. Volume of one combustion chamber		46.9 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	46 mm		
147. Crankshaft : moulded / stamped		148. Type of crankshaft : integral / XXXX	
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 /	
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	3.7 ltrs		quarts US
潤滑油量			
153. Oil cooler : XXXX / 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	6.5 ltrs		quarts US
156. Cooling fan (if fitted), dia.	320 mm		inches
157. Number of blades of cooling fan	4		

Bearings **
ベアリング

158. Crankshaft main, type	Plain	Dia.	58 mm	in.
メインベアリングの形式		内径		
159. Connecting rod big end,	Plain	Dia.	48 mm	in.
コンロッド大端部ベアリングの形式		内径		

Weights **

160. Flywheel (clean)	10.2 kg		lbs
161. Flywheel with clutch (all turning parts)		15.0 kg	lbs
162. Crankshaft	11.8 kg	lbs	163. Connecting rod
			0.62 kg
164. Piston with rings and pin	0.53 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

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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
- 171. Location of camshaft position Cylinder block
カムシャフトの位置
- 172. Type of camshaft drive Chain
カムシャフトの駆動方式
- 173. Type of valve operation Push rod
バルブの作動方式

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 44 mm 1.73 inches
バルブの径
- 182. Max. valve lift 9 mm 0.35 in.
バルブリフト
- 183. Number of valve springs 1
バルブスプリングの数
- 184. Type of spring Coil
バルブスプリングの種類
- 185. Number of valves per cylinder 1
シリンダー当りのバルブの数
- 186. Tappet clearance for checking timing (cold) 0.18 mm
inches
- 187. Valves open at (with tolerance for tappet clearance indicated) B.T.D.C. $16^\circ \pm 10^\circ$
- 188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C. $54^\circ \pm 10^\circ$
- 189. Air filter, type Dry

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 36 mm 1.42 inches
バルブの径
- 197. Max. valve lift 9 mm 0.35 in.
バルブリフト
- 198. Number of valve springs 1
バルブスプリングの数
- 199. Type of spring Coil
バルブ・スプリングの種類
- 200. Number of valves per cylinder 1
シリンダー当りのバルブ数
- 201. Tappet clearance for checking timing (cold) 0.30 mm
inches
- 202. Valves open at (with tolerance for tappet clearance indicated) B.B.D.C. $58^\circ \pm 10^\circ$
- 203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C. $12^\circ \pm 10^\circ$

CARBURETION (photograph N)
気化器

- 210. Number of carburetors fitted 1
キャブレターの数
- 211. Type Down draft
形式
- 212. Make Aisan
製造会社
- 213. Model T
型式
- 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 30^ϕ & 34^ϕ mm
inches
キャブレター出口内径
- 216. Minimum dimensions of mixture passage (s) ~~XXXXXX~~ 22^ϕ & 26^ϕ mm
inches
ベンチュリーの最小寸法 (XXXXXX)

INJECTION (if fitted)
燃料噴射

- 220. Make of pump
ポンプの製造会社
- 221. Number of plungers
プランジャーの数
- 222. Model or type of pump
ポンプの型式
- 223. Total number of injectors
ノズルの総数
- 224. Location of injectors
ノズルの位置
- 225. Minimum diameter of inlet pipe mm
inches
吸気管の最小径

*) 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

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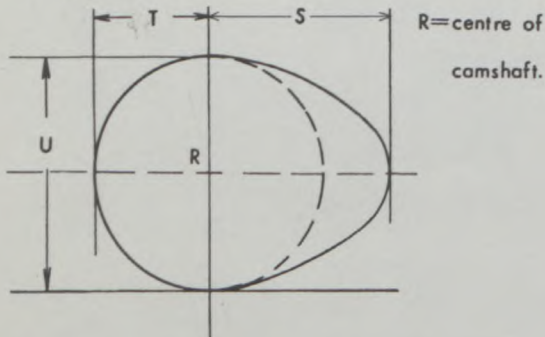
ENGINE ACCESSORIES
エンジン補機

- | | | | |
|--|--------------|--|--------|
| 230. Fuel pump : mechanical and / or electric
燃料ポンプ 機械式 交流式 直流式 | | 231. No. fitted
ポンプの数 | 1 |
| 232. Type of ignition system
点火方式 | Make & Break | 233. No. of distributors
ディストリビューターの数 | 1 |
| 234. No. of ignition coils
コイルの数 | 1 | 235. No. of spark plugs per cylinder/rotor
シリンダー当りのプラグ数 XXXXXX XXXX | 1 |
| 236. Generator, type: Synchr / alternator-number fitted
発電機 交流 / 交流 数 | 1 | 237. Method of drive
駆動方式 | V belt |
| 238. Voltage of generator | 12 volts | 239. Battery, number
バッテリーの数 | 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 | 86 PS | (type of horsepower: JIS) | at 6000 rpm |
| 251. Maximum rpm | 6350 rpm | output at that figure | 86 PS (JIS) |
| 252. Maximum torque | 11.7 Kg-m | at 3800 rpm | |
| 253. Maximum speed of the car | 160 km/hour | | miles / hour |

255. Cam profile
カムプロフィール



Inlet cam

吸気カム

S =	22.4	mm	0.88	inches
T =	16.0	mm	0.63	inches
U =	32.0	mm	1.26	inches

Exhaust cam

排気カム

S =	22.4	mm	0.88	inches
T =	15.9	mm	0.63	inches
U =	31.9	mm	1.26	inches

Make Toyota

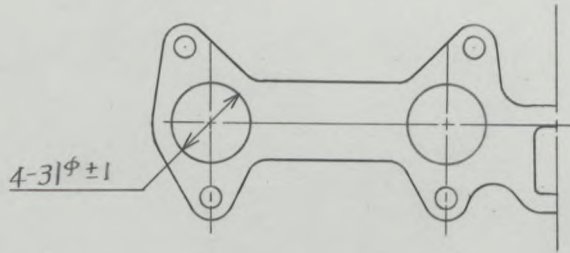
Model TA10-K
型式

J·A·F 公認番号

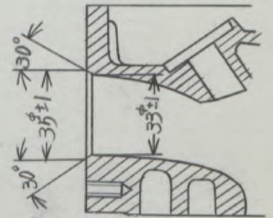
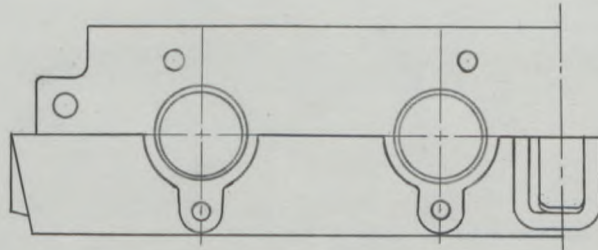
F.I.A. Rec. No.

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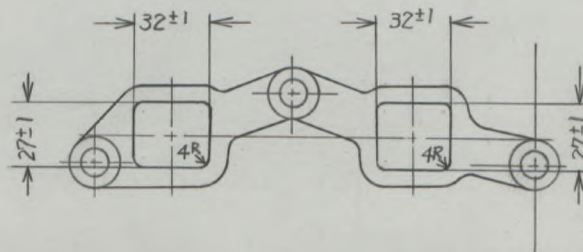
Drawing inlet manifold ports, side of cylinder head / ~~housing~~ scale or dimensions and manufacturing tolerance.



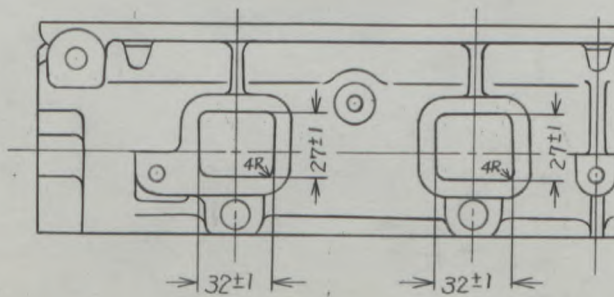
Drawing of entrance to inlet port of cylinder head / ~~housing~~ scale or dimensions and manufacturing tolerance.



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



Drawing of exit to exhaust port of cylinder head / ~~housing~~. Indicate scale or dimensions and manufacturing tolerance.



Unit: mm

Tolerance: ± 1

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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 194 mm inches
プレッシャープレートの外径
263. Dia. of linings, inside 132 mm in.
フェーシングの内径
264. Method of operating clutch 作動方式 Hydraulic

261. No. of plates 1
プレッシャープレートの数
outside 190 mm in.
外径

GEAR BOX (photograph H)
トランスミッション

270. Manual type, make Toyota
手動式の製造会社名
271. No. of gear-box ratios forward 4
前進段数
273. Location of gear-shift Floor
シフトレバーの位置
274. Automatic, make
自動式の製造会社名
275. No. of forward ratios
前進段数

- Method of operation Mechanical
作動方式
272. Synchronized forward ratios 1, 2, 3 & 4

- type
形式
276. Location of gear-shift
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	3.59	$\frac{33}{23} \times \frac{35}{14}$						
2	2.02	$\frac{33}{23} \times \frac{31}{22}$						
3	1.38	$\frac{33}{23} \times \frac{27}{28}$						
4	1.00							
5								
6								
reverse リバース	3.48	$\frac{33}{23} \times \frac{34}{14}$						

278. Overdrive, type
オーバードライブ形式
279. Forward gears on which overdrive can be selected
オーバードライブの作動段数
280. Overdrive ratio
オーバードライブ比

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)
リミテッドスリップデフの形式
293. Final drive ratio 4.11 3.90
ギヤー比 37/9 39/10
Number of teeth 歯数

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

Disc brake	Front	Rear
93 : Number of cylinder per wheel	1	
94 : Bore of cylinder (s)	47.6 mm	19.0 mm
100 : Outside diameter	184 mm	
101 : Thickness of disc	9 mm	
102 : Length of brake linings	97 mm	
103 : Width of brake linings	46 mm	
104 : Number of pads per brake	2	
105 : Total area per brake	78×10^2 mm ²	

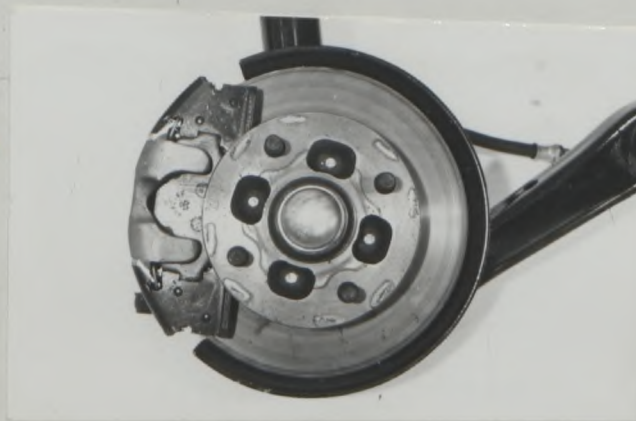


Photo. F, Front brake disc with caliper

(part number : 47710-12050
47720-12050)

Photograph

写真

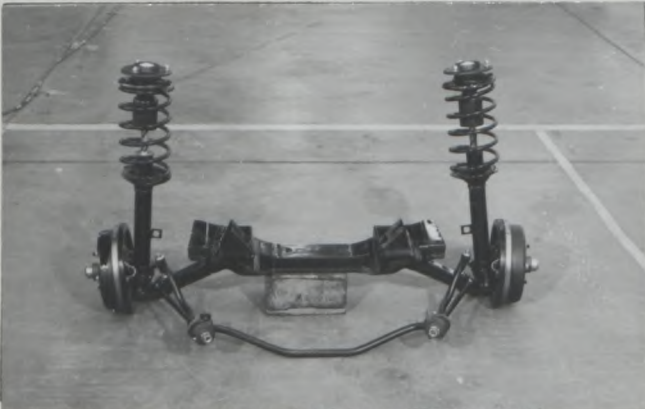
B, 3/4 view of car from rear 全体写真(斜め後方)



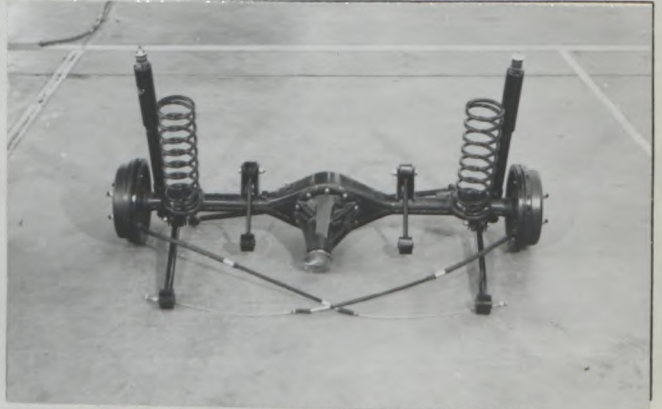
C, Interior view of car through driver's door (open or removed) with dashboard 運転席附近



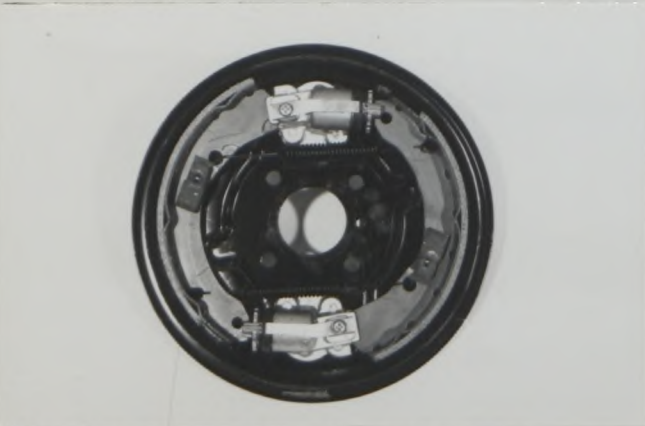
D, Front axle complete, removed from car. Without wheels. フロントサスペンション



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



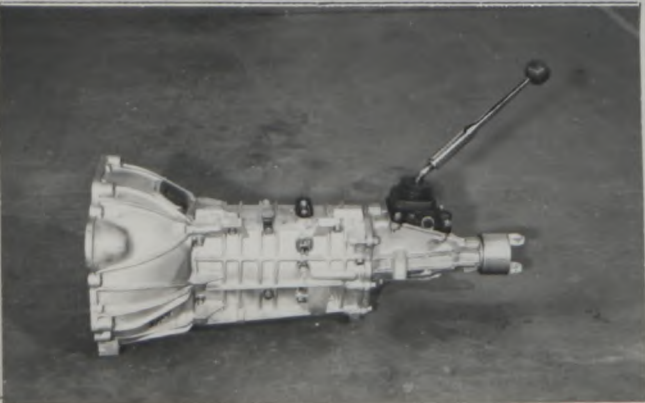
F, Front brake, drum removed ~~フロントブレーキ~~ フロントブレーキ



G, Rear brake, drum removed ~~リアブレーキ~~ リアブレーキ



H, Gear-box, view from side トランスミッション



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



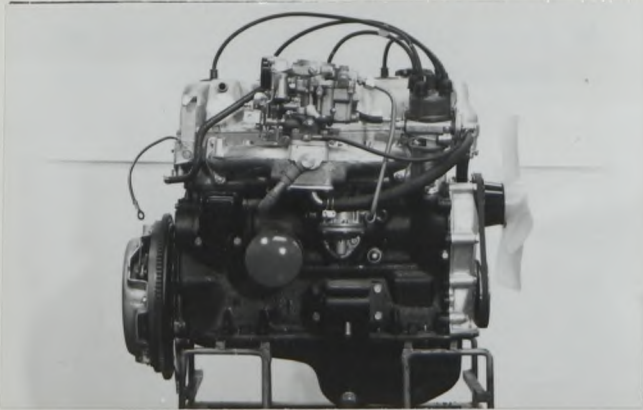
Make Toyota

Model TA10-K
型式

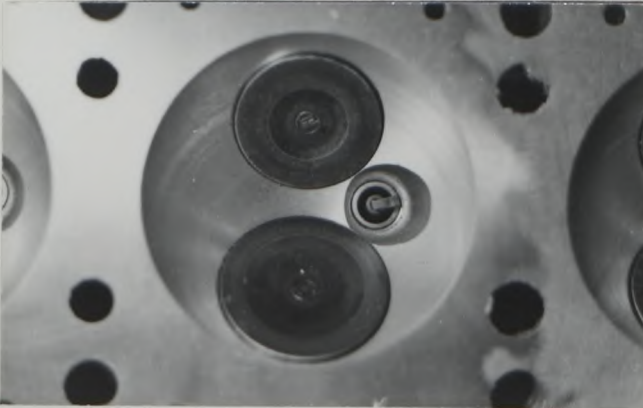
J.A.F.公認番号 T-169
F.I.A. Rec. No. 5417

Photograph

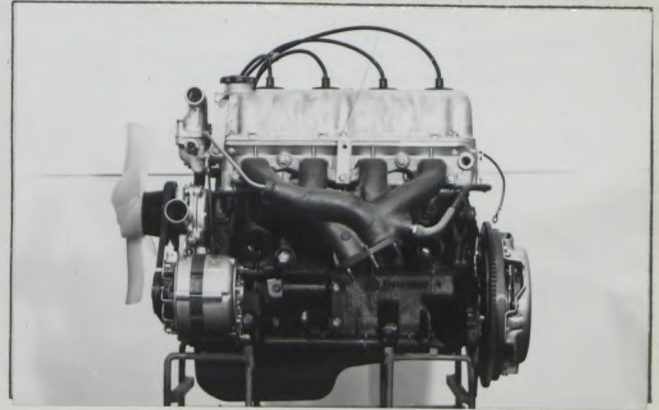
Engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box. エンジン右側面



L, Combustion chamber 燃焼室 ~~XXXXX~~ ~~XXXXX~~ ~~XXXXX~~ ~~XXXXX~~ ~~XXXXX~~



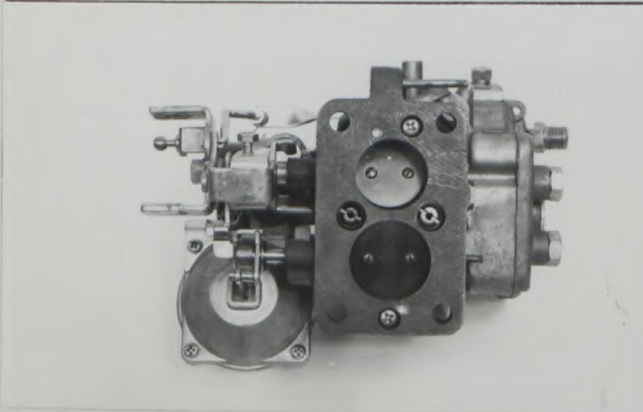
Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter. エンジン左側面



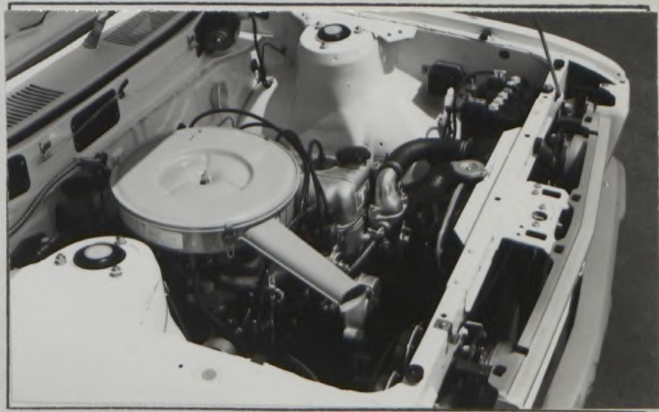
M, Piston crown ピストンクラウン ~~XXXX~~ ~~XXXX~~ ~~XXXX~~ ~~XXXX~~



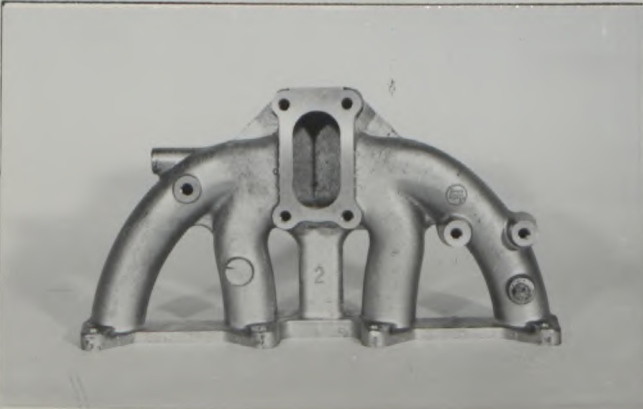
N, Carburettor (view from side of manifold) 気化器



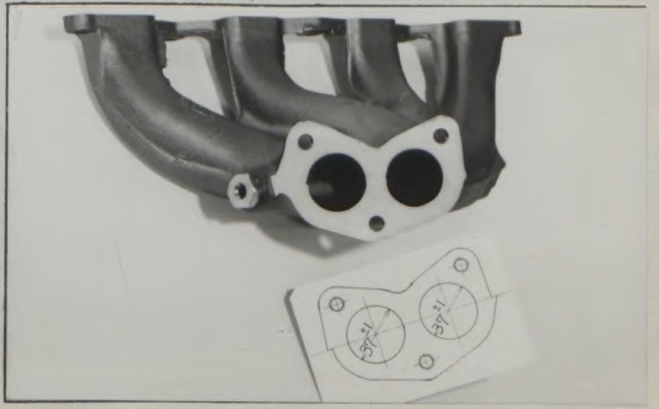
O, Engine in car with all accessories, bonnet open or removed. エンジンルーム



P, Inlet manifold 吸気マニホールド

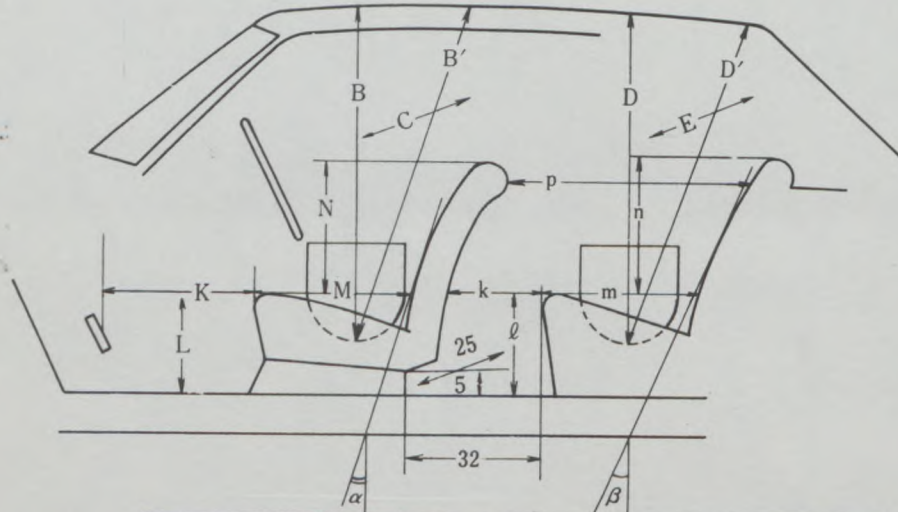


Q, Exhaust manifold 排気マニホールド



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

For four seaters:
4座席

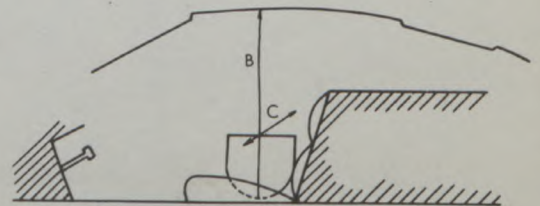


Minimum Dimensions (cm)							
B	B'	α	C	D	D'	β	E
94	101	15°	130	91	92	20°	130

Minimum Dimensions (cm)										
L	ℓ	M	m	N	n	k+m	p	k	k+l+m	K+L+M
30	34	49	45	61	50	64	70	19	98	122
0.9L = 27		0.85M = 41.65		0.8N = 48.8		0.8(k+m) = 51.2		(15)	(95)	(120)

For two seaters:
2座席

Minimum Dimensions	
B	C
cm	cm



Make Toyota

Model TA10-K
型式

J·A·F 公認番号 T-169
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 ToyotaModel TA10-K
型式

F.I.A. Rec. No.

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) トロコイドの創成半径 (平行移動量を含む)	mm		in.
407. Eccentricity 偏心率	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 ローター当りのアペックスシールの数			
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 TA10-K
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)

Option

GEAR BOX

271 : No. of gear-box ratios forward

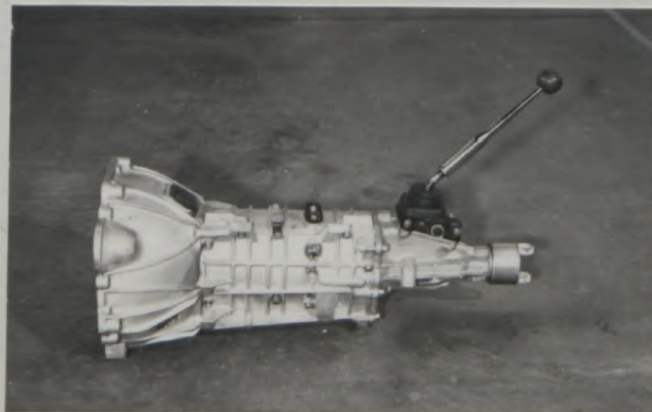
5

272 : Synchronized forward ratios

1, 2, 3, 4, & 5

277	Manual	
	Ratio	No. teeth
1	3.59	$\frac{33}{23} \times \frac{35}{14}$
2	2.02	$\frac{33}{23} \times \frac{31}{22}$
3	1.38	$\frac{33}{23} \times \frac{27}{28}$
4	1.00	
5	0.86	$\frac{33}{23} \times \frac{21}{35}$
reverse	3.48	$\frac{33}{23} \times \frac{34}{14}$

Photo H, Gear-box, view from side
(part number : 33110-14050)



Make Toyota

Model
型式 TA10-K

J·A·F公認番号

T-169

F.I.A. Rec. No.

5417

Four door version



Photo. A, 3/4 view of car
from front



Photo. B, 3/4 view of car
from rear

9. Weight
車両重量

835 Kg

1840 lbs

cwt

NOT VALID FOR GROUP 1 ONLY

Optional

Wing extensions

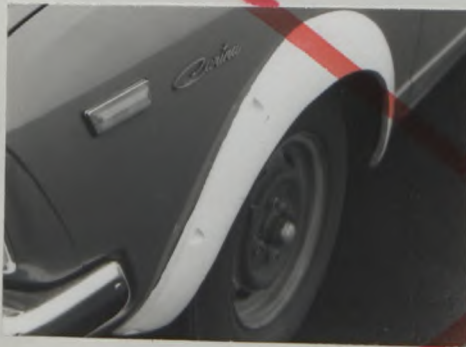


Photo.
Front wing
extension

Part number :
(53818-14010)
53819-14010

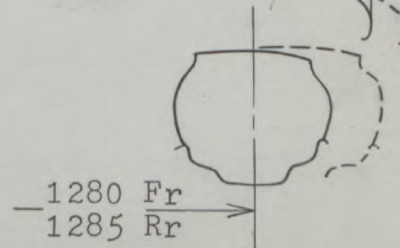
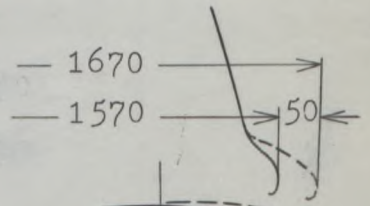


Photo.
Rear wing
extension

Part number :
(61619-14010)
61629-14010

Center
of original rim

Unit : mm



JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F 公認番号 T-169 4-1
発効年月日 71. 4月末日

F. I. A. Homol. No 5417/1/1V

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 J A F 国内競技車両規則に従った公認書式。

Make Toyota Motor Co., Ltd. **Model** Toyota Carina 1400, TA10-K
製造会社名 型式及び通称名

Modification's application starts with serial No. chassis 適用シャーシー番号 TA10-000001
 engine 適用エンジン番号 2T 0001001

Application of this amendment started the 12th November, 1970
適用年月日

Commercial denomination after application of modifications Tyota Carina 1600, TA12-KD

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

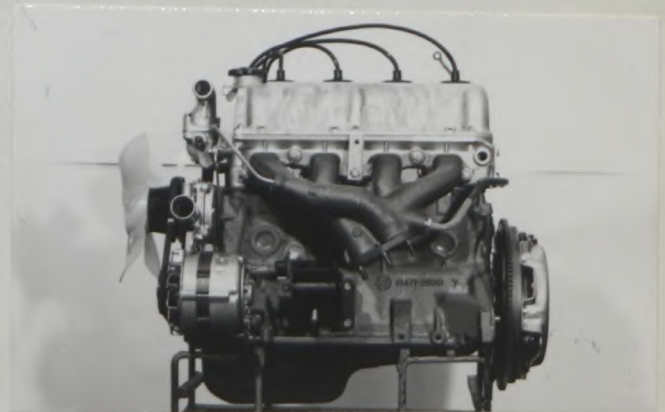
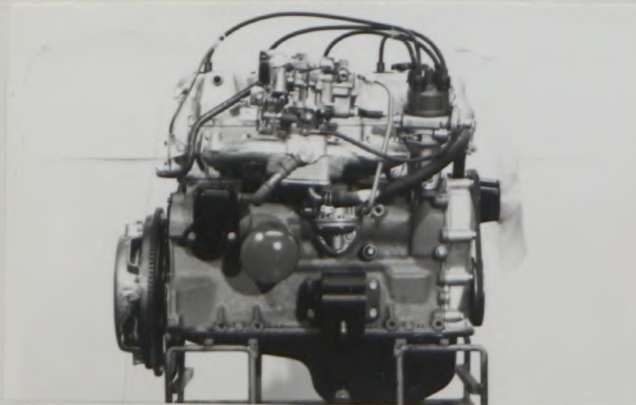
Date amendment is valid from 1/7/71 List 71/7

Description of amendment 内容

Another type of engine can be selected for TA10-K cars as maker's option.

136 : Total cylinder capacity
Photo. J

1588 cm³ 96.91 cu. in.
Photo. K



Further detailed specifications different from the original engine are described on the attached sheet.

The NO. of chassis installed this engine include on and after

TA12-000001.

Stamp and signature of the JAF

J A F 公認印及び署名

庭山博史

Hiroshi Niwayama

Stamp and signature of the F.I.A.

Make Toyota

Model
型式 TA12-KD

J·A·F公認番号 T-169V-1
F.I.A. Rec. No. 5417/111V

ENGINE (Photographs J and K)

133 : <u>Bore</u>	85 mm	3.35 in.
135 : <u>Capacity per cylinder</u>	397 cm ³	24.23 cu in.
136 : <u>Total cylinder-capacity</u>	1588 cm ³	96.91 cu in.
143 : Volume of one combustion chamber	52.9 cm ³	
146 : Distance from gudgeon pin center line to highest point of piston crown	45 mm	

CARBURETION (Photograph N)

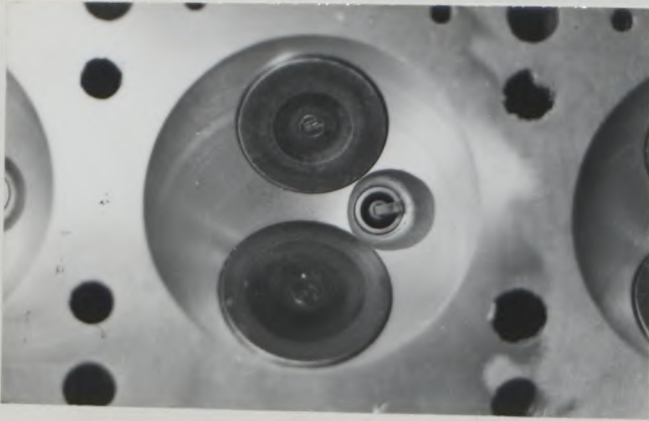
213 : Model	2T
216 : Minimum dimensions of mixture passage(s)	23 ^φ & 27 ^φ

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

250 : Max. engine output	100 PS (type of horsepower : JIS) at 6000 rpm
251 : Maximum rpm	6350 output at that figure 98 PS (JIS)
252 : Maximum torque	13.7 Kg-m at 3800 rpm
253 : Maximum speed of the car	165 Km/hour

Photograph

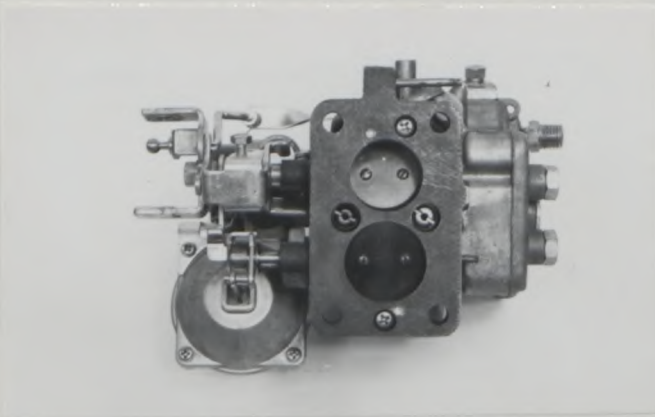
L , combustion chamber



M , piston crown



N , carburettor (view from side of manifold)





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F 公認番号 T-169V-2

発効年月日 71-4月末日

F. I. A. Homol. No 5417/2/2V

- Gr 2 -

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。

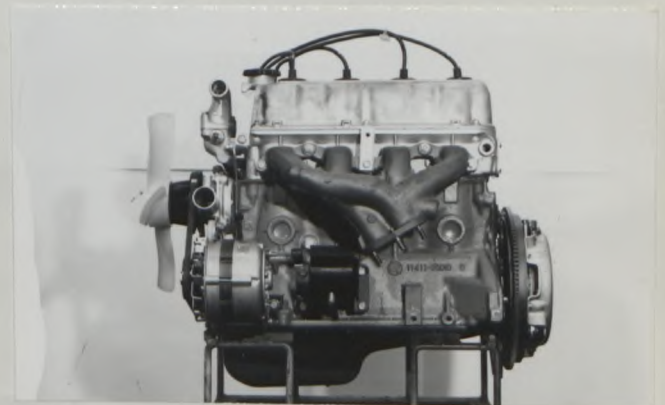
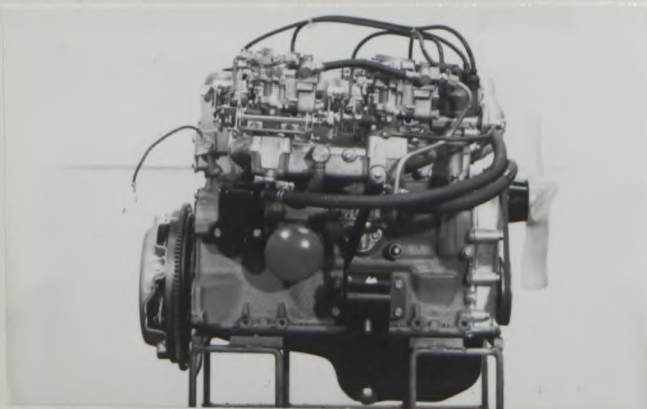
Make Toyota Motor Co., Ltd. Model Toyota Carina 1400, TA10-K
 製造会社名 型式及び通称名
 Modification's application starts with serial No. chassis 適用シャーシー番号 TA10-000001
 engine 適用エンジン番号 2T 0001001
 Application of this amendment started the 12th November, 1970
 適用年月日
 Commercial denomination after application of modifications Toyota Carina 1600, TA12-KS
 The modifications are to be considered as: Variant / ~~Normally a variation of the type~~
 変型 / ~~正常変化~~
 Date amendment is valid from 1 July 1971 List 71/7

Description of amendment 内容 NOT VALID FOR GROUP 1 ONLY

Another type of engine can be selected for TA10-K cars as maker's option.

Photo. J

Photo. K



Further detailed specifications different from the original engine are described on attached sheets.

The NO. of chassis installed this engine include on and after TA12-000001.

Stamp and signature of the JAF

JAF公認印及び署名

庭山博史

Hiroshi Niwayama

Stamp and signature of the F.I.A.

[Signature]

Make Toyota

Model TA12-KS
型式

J·A·F公認番号 T-169V-2

F.I.A. Rec. No. 5417/2/2V

ENGINE (Photographs Jand K)

- Gr 2 -

133 : <u>Bore</u>	85 mm	3.35 in.
135 : <u>Capacity per cylinder</u>	397 cm ³	24.23 cu in
136 : <u>Total cylinder-capacity</u>	1588 cm ³	96.91 cu in
142 : Compression ratio	9.4	
143 : Volume of one combustion chamber	47.3 cm ³	
146 : Distance from gudgeon pin center line to highest point of piston crown	45 mm	

CARBURETION (Photograph N)

210 : Number of carburettors fitted	2
213 : Model	2T-B
216 : Minimum dimensions of mixture passage(s)	20 ^φ & 26 ^φ mm

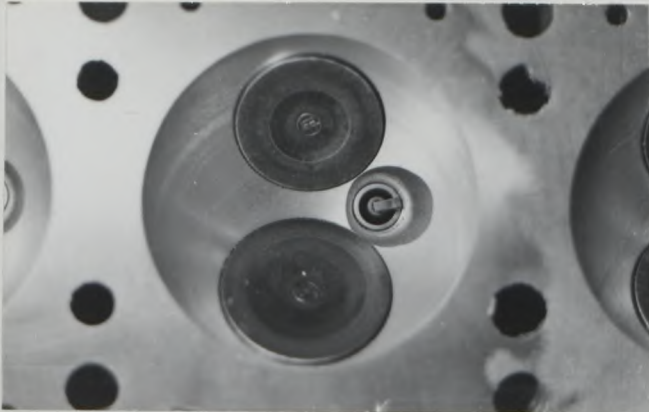
ENGINE AND CAR PERFORMANCES

(as declared by manufacturer in catalogue)

250 : Max. engine output	105 PS (type of horsepower : JIS)	at 6000 rpm
251 : Maximum rpm	6350	output at that figure 102 PS (JIS)
252 : Maximum torque	14.0 Kg-m	at 4200 rpm
253 : Maximum speed of car	170	Km/hour

Photograph

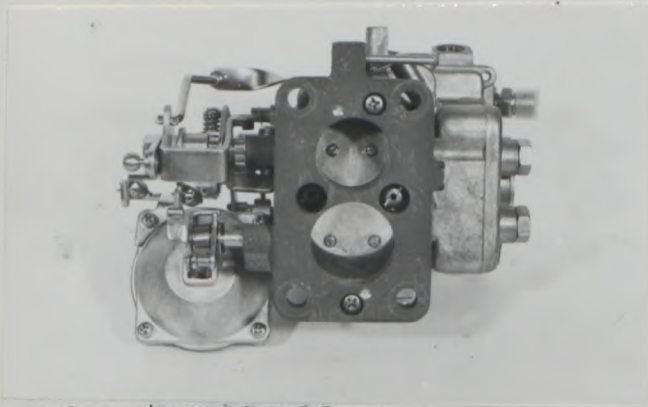
L , combustion chamber



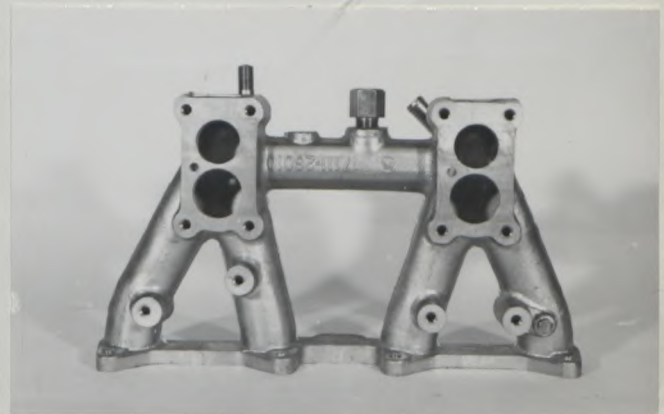
M , piston crown



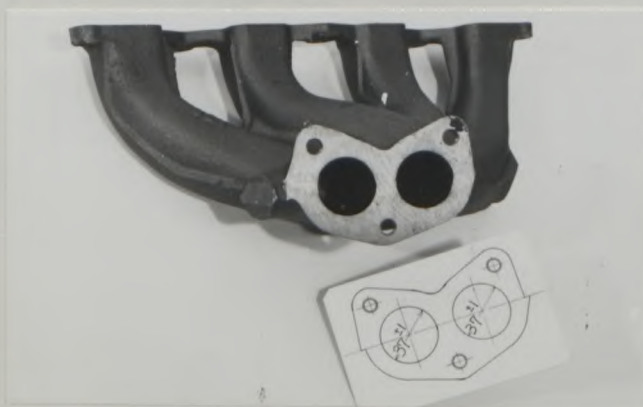
N , carburettor (view from side manifold)



P , inlet manifold



Q , exhaust manifold





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F 公認番号 T-1694-3
発効年月日 71.4月末日
F. I. A. Homol. No 5417/3/3V
- Gr 2 -

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 J A F 国内競技車両規則に従った公認書式。

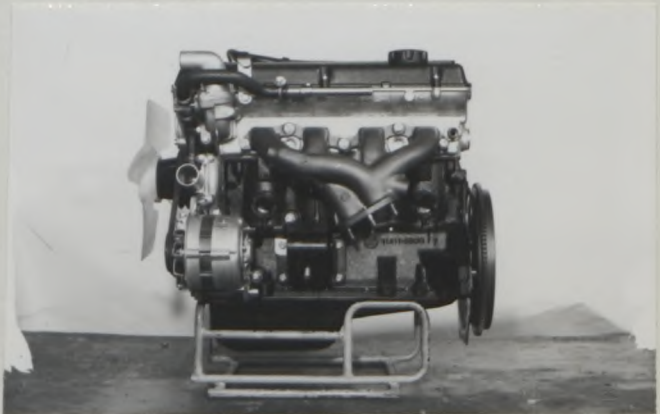
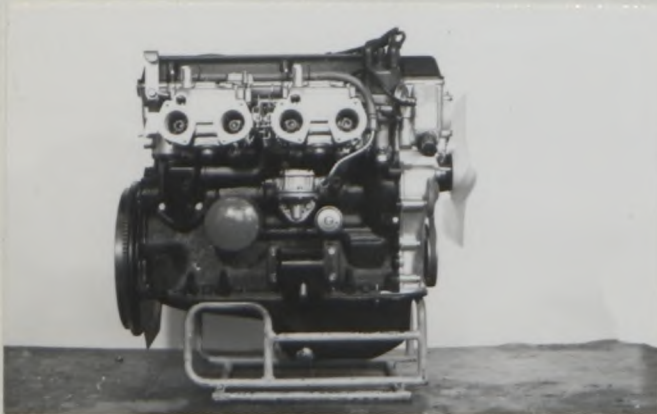
Make Toyota Motor Co., Ltd. Model Toyota Carina 1400, TA10-K
製造会社名 型式及び通称名
Modification's application starts with serial No. chassis 適用シャーシー番号 TA10-000001
engine 適用エンジン番号 2T 0001001
Application of this amendment started the 25th March, 1971
適用年月日
Commercial denomination after application of modifications Toyota Carina 1600 , TA12-MQ
The modifications are to be considered as: Variant / normal evolution of the type
変型 / 実質改良
Date amendment is valid from 1st July 1971 List 71/7

Description of amendment 内容 Not Valid for Group 1

Another type of engine can be selected for TA10-K cars as maker's option.

Photo. J

Photo. K



Further detailed specifications different from the original engine are described on the attached sheets.

The NO. of chassis installed this engine include on and after TA12-000001.

Stamp and signature of the JAF

J A F 公認印及び署名

庭山博史

Hiroshi Niwayama

Stamp and signature of the F.I.A.

Make Toyota

Model
型式 TA12-MQ

J·A·F 公認番号 T-169V-3
F.I.A. Rec. No. 5417/3/3V

- Gr 2 -

ENGINE (Photographs J and K)

133 : <u>Bore</u>	85 mm	3.35 in.
135 : <u>Capacity per cylinder</u>	397 cm ³	24.23 cu in.
136 : <u>Total cylinder capacity</u>	1588 cm ³	96.91 cu in.
142 : Compression ratio	9.8	
143 : Volume of one combustion chamber	45.1 cm ³	
146 : Distance from gudgeon pin center line to highest point of piston crown	45 mm	
152 : Capacity, lubricant	3.8 ltrs	
155 : Capacity of cooling system	7.4 ltrs	

FOUR STROKE ENGINES

170 : Number of camshafts	2
172 : Location	Cylinder head
173 : Type of valve operation	Direct

INLET

181 : <u>Diameter of valves</u>	41 mm	1.61 in.
182 : <u>Max. valve lift</u>	9 mm	0.35 in.
186 : Tappet clearance for checking timing (cold)	0.29 mm	
187 : Valves open at (with tolerance for tappet clearance indicated)	B.T.D.C.	20 ^o ± 10 ^o
188 : Valves close at (with toleranse for tappet clearance indicated)	A.B.D.C.	48 ^o ± 10 ^o

EXHAUST

201 : Tappet clearance for checking timing (cold)	0.34 mm
202 : Valves open at (with tolerance for tappet clearance indicated)	B.B.D.C. 52 ^o ± 10 ^o
203 : Valves close at (with tolerance for tappet clearance indicated)	A.T.D.C. 16 ^o ± 10 ^o

CARBURETION (Photograph N)

- Gr 2 -

210 : Number of carburettors fitted	2
211 : Type	Side draft
212 : Make	Mikuni
213 : Model	2T-G
214 : Number of mixture passages per carburettor	2
215 : Flange hold diameter of exit port(s) of carburettor	40 mm
216 : Minimum dimensions of mixture passage(s)	30 ^φ & 30 ^φ mm

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

250 : Max. engine output	115 PS (type of horsepower: JIS) at 6400 rpm
251 : Maximum rpm	6800rpm output at that figure 113 PS (JIS)
252 : Maximum troque	14.5 Kg-m at 5200 rpm
253 : Maximum speed of the car	185 Km / hour
255 : Cam profile	

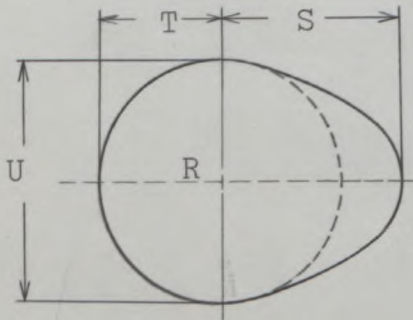
R=center of
camshaft

Inlet cam

S=	27.9 mm	1.10 in.
T=	18.0 mm	0.71 in.
U=	36.1 mm	1.42 in.

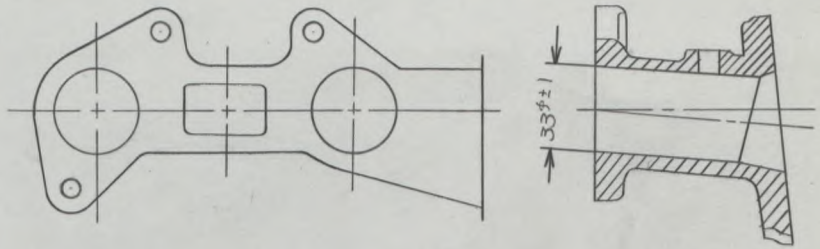
Exhaust cam

S=	27.9 mm	1.10 in.
T=	18.0 mm	0.71 in.
U=	36.1 mm	1.42 in.

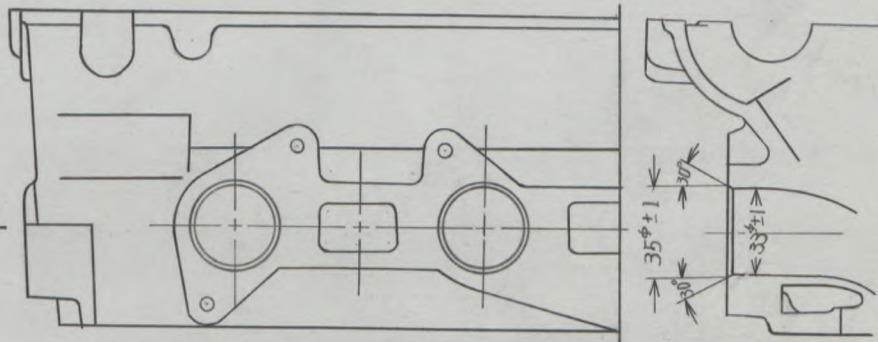


- Gr 2 -

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.

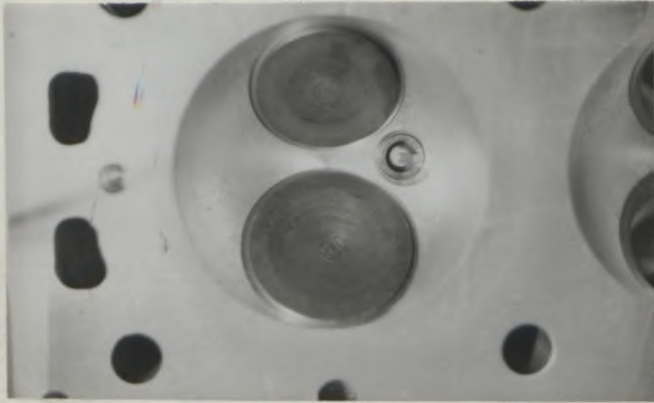


Unit : mm
Tolerance : ± 1

- G12 -

Photograph

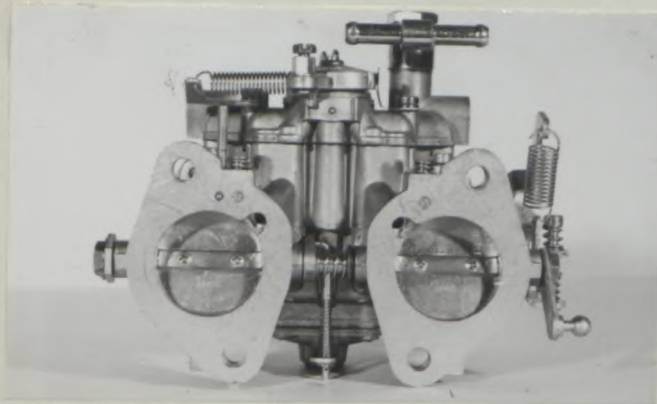
L, Combustion chamber



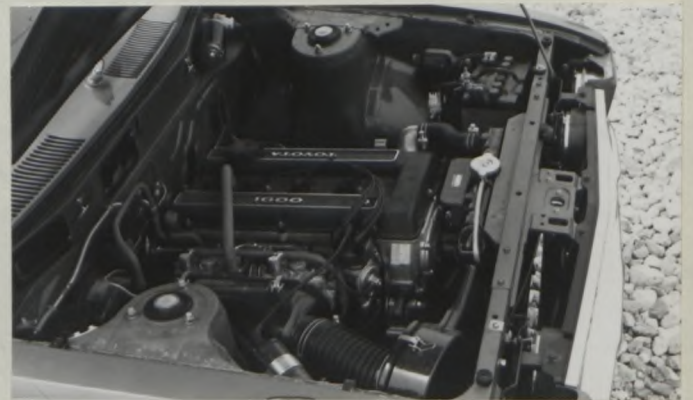
M, Piston crown



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

社団法人 日本自動車連盟

J.A.F 公認番号 T-169 E-4

発効年月日 47. 3. 31

F. I. A. Homol. No SH17

h/IE

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 Toyota Motor Co., Ltd. Model Toyota Carina 1,400, TA10-k
 製造会社名 型式及び通称名
 Modification's application starts with serial No. chassis 適用シャーシー番号 TA10-000001
 engine 適用エンジン番号 T 0001001
 Application of this amendment started the 1st Nov. 1970
 適用年月日
 Commercial denomination after application of modifications Toyota Carina 1400, TA10-K
 The modifications are to be considered as: ~~MODIFIED~~ / normal evolution of the type
~~改修~~ / 正常進化
 Date amendment is valid from List

Description of amendment 内容

WHEELS

- 50. Type: Pressed Steel
- 51. Weight: (per wheel, without tyre) 5.5kg
- 52. Method of attachment: 4 Nuts
- 53. Rim diameter: 330mm 13 inches
- 54. Rim width: 102mm 4 inches

Stamp and signature of the JAF

JAF公認印及び署名

Hiroschi Niwayama

Hiroschi Niwayama



Stamp and signature of the F.I.A.

Handwritten signature of the F.I.A. official



JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F 公認番号 T-169 V-5

発効年月日 47. 3. 31

F. I. A. Homol. No SH17

5/4V

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 Toyota Motor Co., Ltd.

Model Toyota Carina 1,400, TA10-K

Modification's application starts with serial

No. chassis 適用シャーシー番号 TA10-000001
engine 適用エンジン番号 T 0001001

Application of this amendment started the 1st Nov. 1970

Commercial denomination after application of modifications Toyota Carina 1400, TA10-K

The modifications are to be considered as: Variant / ~~modification of the type~~
変型 / ~~XXXXXXXX~~

Date amendment is valid from

List

Description of amendment 内容

Optional
Disc wheel

Type :	Pressed Steel	
Weight :	(per wheel, without tyre)	5.8 kg
Method of attachment :		4 Nuts
Rim diameter :	330 mm	13 inches
Rim width :	114 mm	4.5 inches

Photo.
Disc wheel
(part number : 42611-22010)



Stamp and signature of the JAF

Stamp and signature of the F.I.A.

JAF公認印及び署名

庭山博史

Hiroshi Niwayama



Make Toyota

Model TA10-K
型式

J.A.F公認番号 T-169V-5

F.I.A. Rec. No. 5417 S/hv

FINAL DRIVE

Type of final drive
Type of differential
Final drive ratio
Number of teeth

4.300
43/10

Hypoid gear
Bevel gear





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F. 公認番号 T-169 E-6
発効年月日 47.10.31

F.I.A. Homol. No 5417

6/2E

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從うた公認書式

Make Toyota Motor Co., Ltd

Model Toyota Carina 1400, TA10-K

製造会社名

型式及び通称名

Modification's application starts with serial

No. chassis 適用シャシー番号 TA10-069001

engine 適用エンジン番号 T 080925

Application of this amendment started the 1st Aug. 1972

適用年月日

Commercial denomination after application of modifications Toyota Carina 1400, TA10 series

The modifications are to be considered as: ~~XXX~~ / normal evolution of the type

~~XXX~~ 正常進化

Date amendment is valid from

List

Description of amendment 内容

COACHWORK (photograph A, B & C)

Photo. A

3/4 view of car from front.



Photo. B

3/4 view of car from rear.



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.

4 Door Model

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 .



DIMENSION

4 . Overall length of the car

415.5 cm





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F.公認番号 T-169V-7

発効年月日 1973年 2月 28日

F.I.A. Homol. No 5417

1/8/73

7/SV

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 Carina 1400, TA10-K

Make Toyota Motor Co., Ltd.

型式及び通称名

製造会社名

Modification's application starts with serial

No. chassis 適用シャシー型式番号 TA10-000001

engine 適用エンジン型式番号 T 0001001

Application of this amendment started the 1st October, 1972

適用年月日

Commercial denomination after application of modifications Toyota Carina Hard-Top

The modifications are to be considered as: Variant / ~~XXXXX~~ ~~XXXXX~~ of ~~the~~ ~~XXXXX~~ ~~XXXXX~~

変型 / XXXXX

Date amendment is valid from

List

Description of amendment 内容

COACHWORK

Another type of coachwork can be selected for TA10-K cars as maker's option.

Photo. A

3/4 view of car from front



Photo. B

3/4 view of car from rear



Further detailed specification different from the original coachwork are described on the following.

The No. of chassis installed this coachwork include on and after

TA15-000001 (Engine type :T)

TA17-000001 (Engine type :2T)

Stamp and signature of the JAF

JAF公認印及び署名

難波清治

Yasuharu Nanba



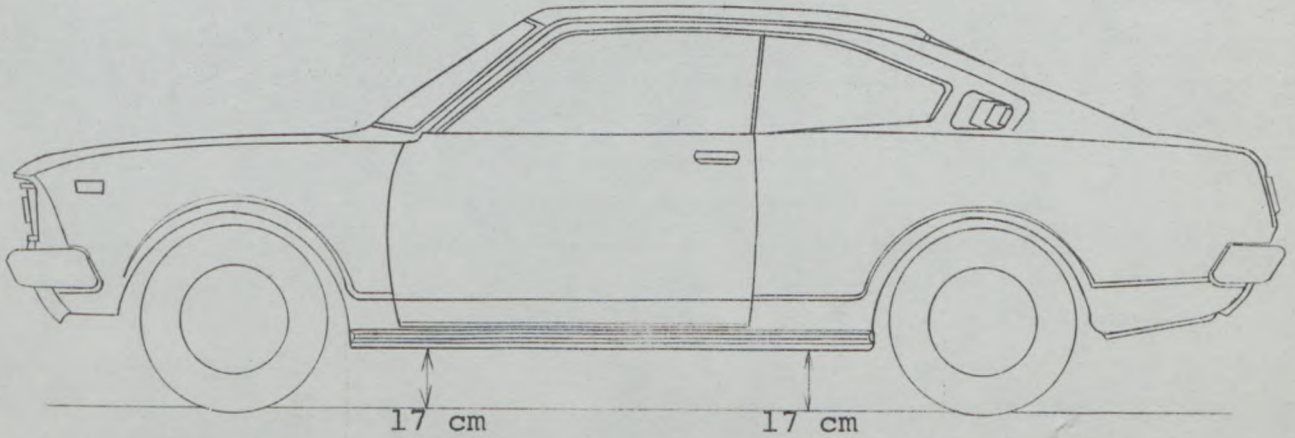
Stamp and signature of the F.I.A.

[Signature]

7/5V

DIMENSION

4. Overall length of the car	415.5	mm cm
5. Overall width of the car	158.0	mm cm
6. Overall height of the car	134.0	mm cm



Unit : cm

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

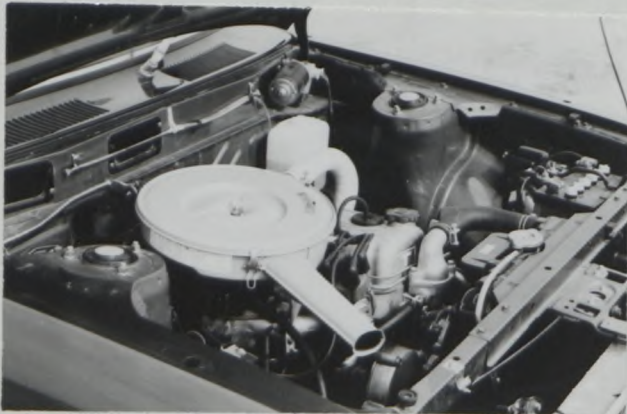
Front	158.0 cm	Rear	158.0 cm
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0. Engine in car with all accessories, bonnet open or removed.

7/5V

1. TA15 series (Engine type :T)

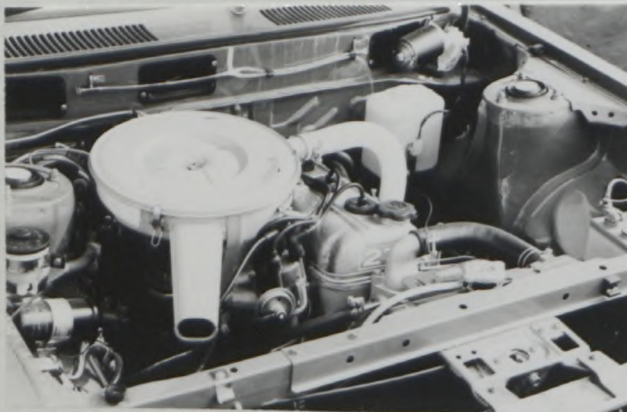


1400cc Engine

9. Weight 895kg

1975lbs

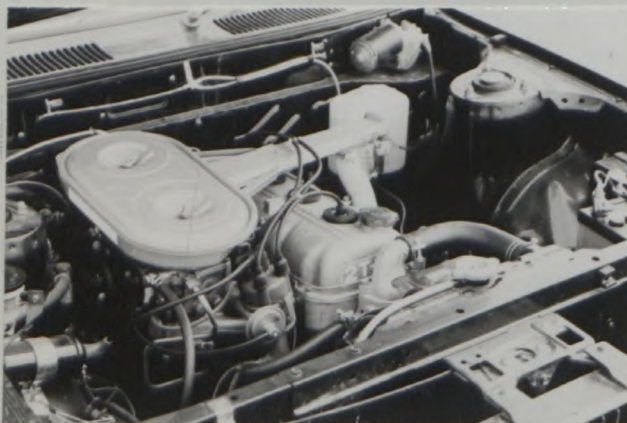
2. TA17 series (Engine type :2T)



1600cc Engine

9. Weight 895kg

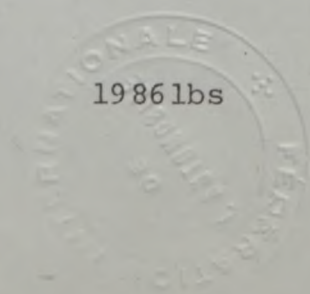
1975lbs



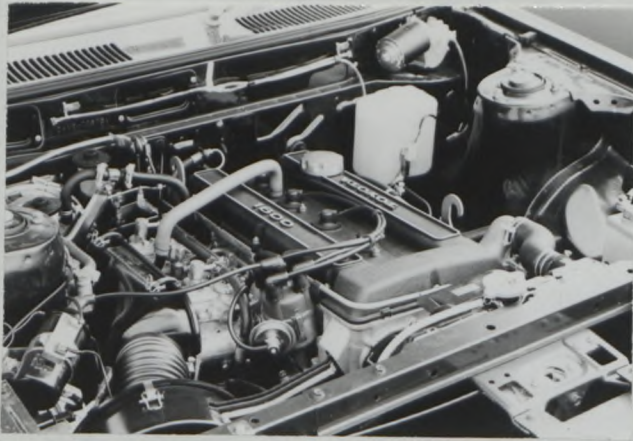
1600cc Twin-Cab. Engine

9. Weight 900kg

1986lbs



7/5V



1600cc Twin-Cam. Engine

9. Weight

910 kg

2008lbs





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F.公認番号 T-169V-9

発効年月日 1973年9月30日

F.I.A. Homol. No 5417

8/6V

COMMISSION SPORTIVE

01305 05.1173

INTERNATIONALE

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 Toyota Motor Co., Ltd.

製造会社名

Modification's application starts with serial

Model Toyota Carina 1400. TA10-K
型式及び通称名

No. chassis 通用シャーシー型式番号 TA10-000001
engine 通用エンジン型式番号 T 0001001

Application of this amendment started the 1st September, 1973

適用年月日

Commercial denomination after application of modifications Toyota Carina 1400. TA10-K

The modifications are to be considered as: Variant / ~~normal production of the type~~

変型 / 変更生産

Date amendment is valid from 1.1.74

List

Description of amendment 内容

"valable en Groupe 2 uniquement"

"valid for Group 2 only"

VALID FOR GROUP '2' ONLY

OPTIONAL EQUIPMENT

BRAKES (Front brake disc)

100. Outside diameter

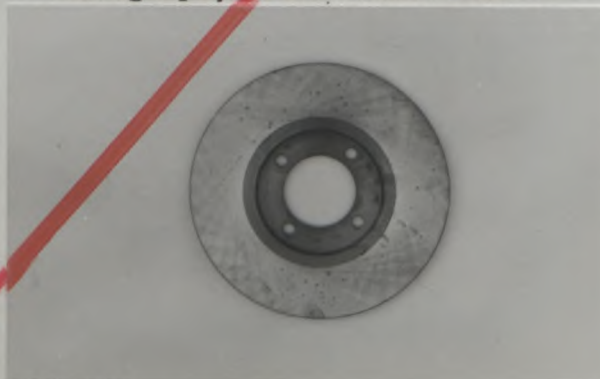
265 mm

101. Thickness of disc

10 mm

Part No. 43512-06835 Front disc

Photograph, Front brake disc



Stamp and signature of the JAF

JAF公認印及び署名

難波靖彦

Yasuharu Nanba.



Stamp and signature of the F.I.A.

Signature of the F.I.A.



JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F.公認番号 T-169v-11

発効年月日 1974年5月31日

F.I.A. Homol. No 5417 9/20

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從つた公認書式

Make

製造会社名 Toyota Motor Co., Ltd.

Model

型式及び通称名 Toyota Carina 1400, TA10-K

Modification's application starts with serial No.

chassis 適用シャシー番号 TA10-000001

engine 適用エンジン番号 T

Application of this amendment started the 適用年月日

1st February, 1973

Commercial denomination after application of modifications

Toyota Carina 1400.

The modifications are to be considered as: Variant / normal evolution of the type

変型 / 正常進化

Date amendment is valid from

1 10 74

List

Description of amendment 内容

The following item have been added.

FINAL DRIVE

292: Type of limited slip differential. Friction

Part No. 41110-14031.

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

社団法人 日本自動車連盟

J.A.F.公認番号

T-169 V-12

発効年月日

1974年7月31日

F. I. A. Homol. No

5417 10/8V

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。

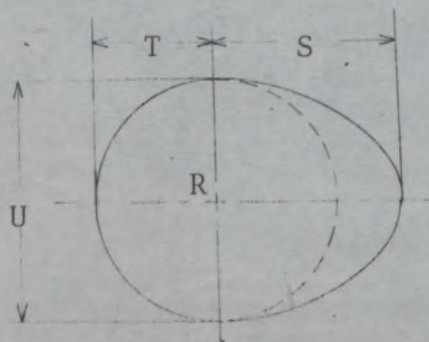
Model Toyota Carina 1400, TA10-K
 型式及び通称名
 Make Toyota Motor Co., Ltd. 製造会社名
 Modification's application starts with serial No. chassis 適用シャーシー型式番号 TA10-000001, TA12-000001
 engine 適用エンジン型式 2T
 Application of this amendment started the Sep. 1973
 適用年月日
 Commercial denomination after application of modifications Toyota Carina 1600, TA12
 The modifications are to be considered as: Variant / normal evolution of the type
 変型 / 正常進化
 Date amendment is valid from 1.10.76 List

Description of amendment 内容

The following items have been changed.

ENGINE (1600cc DOHC engine)

255. Cam profile



Inlet cam

S = 28.4 mm 1.12 in.

T = 18.0 mm 0.71 in.

U = 36.2 mm 1.43 in.

Exhaust cam

S = 28.4 mm 1.12 in.

T = 18.0 mm 0.71 in.

U = 36.2 mm 1.43 in.

R = center of camshaft

146. Distance from gudgeon pin center line to highest point of piston crown

46 mm

INLET

181. Diameter of valves

45 mm 1.75 in.

182. Max. valve lift

10 mm 0 in.

Stamp and signature of the JAF

Stamp and signature of the F. I. A.

JAF公認印及び署名

難波靖治
Yasuharu Nanba



Make Toyota

Model TA10-K
型式

J.A.F公認番号 T-169V-12

F.I.A. Rec. No. 5417

10/8V

187. Valves open at (with tolerance for tappet clearance indicated) B.T.D.C. $16^{\circ} \pm 5^{\circ}$

188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C. $60^{\circ} \pm 5^{\circ}$

EXHAUST

196. Diameter of valves 39 mm 1.52 in.

197. Max.valve lift 10 mm 0.41 in.

202. Valves open at (with tolerance for tappet clearance indicated) B.B.D.C. $60^{\circ} \pm 5^{\circ}$

203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C. $16^{\circ} \pm 5^{\circ}$

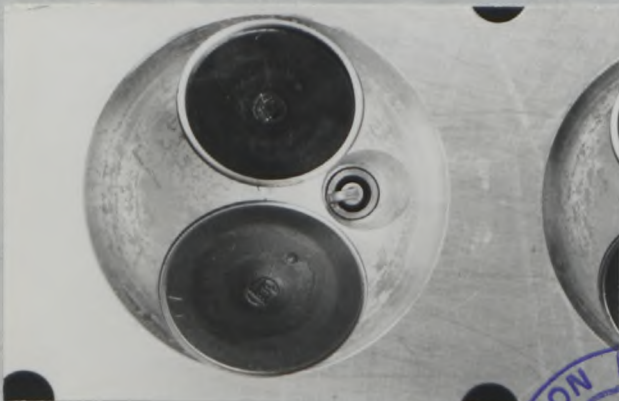
CARBURETION (Photo.N)

216. Minimum dimensions of mixture passage(s) 34^{ϕ} & 34^{ϕ} mm

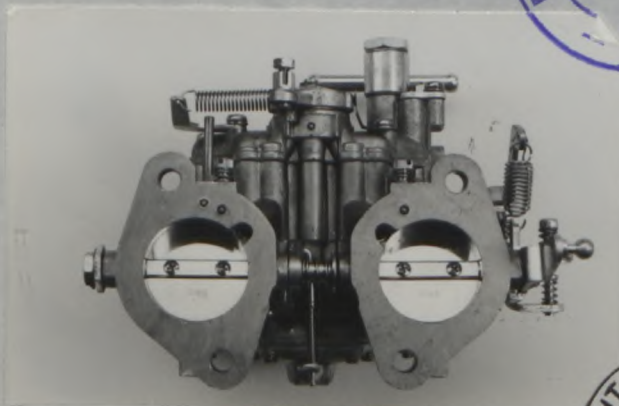
PHOTOGRAPH

L. combustion chamber

M. piston crown



N. carburettor
(view from side of manifold)



COMBUSTION CHAMBER

* Volume of one combustion chamber of cylinder head 63.5 cm³ Page 2/2

** Thickness of cylinder headgasket when compressed 1.0 mm



JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F. 登録番号 T-169E-16
発効年月日 1975年3月31日
F.I.A. Homol. No 5417

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

11/3E

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 Toyota Motor Co., Ltd. Model Toyota Carina 1400, TA10-K
製造会社名 型式及び通称名
Modification's application starts with serial No. chassis 適用シャーシ型式番号 TA12-000001
engine 適用エンジン型式番号 2T
Application of this amendment started the May. 1973
適用年月日
Commercial denomination after application of modifications Toyota Carina 1600, TA12
The modifications are to be considered as: ~~NOT~~ normal evolution of the type
実質 / 正常進化
Date amendment is valid from 1.7.75 List

Description of amendment 内容

Revision of error

ENGINE

1600cc DOHC engine

CARBURETION

216. Minimum dimensions of mixture pasage(s)

32^φ & 32^φ

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

社団法人 日本自動車連盟

J-A-F 公認番号 T-169E-14
発効年月日 1974年12月31日
F.I.A. Homol. No 5417

12/4E

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 Toyota Motor Co., Ltd
製造会社名
Modification's application starts with serial No. chassis 適用シャーシー型式番号 TA12-000001
engine 適用エンジン型式 2T

Model Toyota Carina 1400, TA10-K
型式及び通称名

Application of this amendment started the Apr. 1971
適用年月日

Commercial denomination after application of modifications Toyota Carina 1600, TA12

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

Date amendment is valid from 1 8 75 List

Description of amendment 内容

Revision of error

Descriptions about item NO. 187, 188, 202, 203 of 1600cc Type 2T Engine are wrong. It is the cause of mistake that we have not taken into account opening and closing ramp.

right values are as follows

INLET

- 187. Valves open at (with tolerance for tappet clearance indicated)
B. T. D. C 23° [REDACTED]
- 188. Valves close at (with tolerance for tappet clearance indicated)
A. B. D. C 71° [REDACTED]
tappet clearance 0.20 mm (hot)



EXHAUST

- 202. Valves open at (with tolerance for tappet clearance indicated)
B. B. D. C 69° [REDACTED]
- 203. Valves close at (with tolerance for tappet clearance indicated)
A. T. D. C 33° [REDACTED]
tappet clearance 0.20 mm (hot)



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
 社団法人 日本自動車連盟

J.A.F. 公認番号 T-169E-15
 発効年月日 1974年12月31日
 F.I.A. Homol. No 5417

13/5E

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 Toyota Motor Co., Ltd
Model Toyota Carina 1400, TA10-K
製造会社名 型式及び通称名
Modification's application starts with serial No. chassis 通用シャーシー型式番号 TA10-000001, TA12-000001
 engine 通用エンジン型式 2T
Application of this amendment started the Sep. 1973
適用年月日
Commercial denomination after application of modifications Toyota Carina 1600, TA12
The modifications are to be considered as: ~~X2000K~~ normal evolution of the type
変更 / 正常進化
Date amendment is valid from 1875 List

Description of amendment 内容

Revision of error

Descriptions about item NO. 187, 188, 202, 203 of 1600cc DOHC Engine are wrong. It is the cause of mistake that we have not taken into account opening and closing ramps.

right values are as follows

INLET

187. Valves open at (with tolerance for tappet clearance indicated)

B. T. D. C 33° 10°

188. Valves close at (with tolerance for tappet clearance indicated)

A. B. D. C 89° 10°

tappet clearance 0.29 mm (cold)

EXHAUST

202. Valves open at (with tolerance for tappet clearance indicated)

B. B. D. C 71° 10°

203. Valves close at (with tolerance for tappet clearance indicated)

A. T. D. C 39° 10°

tappet clearance 0.34 mm (cold)

Stamp and signature of the JAF

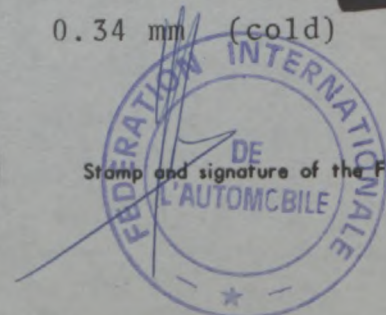
JAF公認印及び署名



難波靖治

Yasuharu Nanba

Stamp and signature of the F.I.A.





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F. 公認番号 T-169E-13
発効年月日 1974年12月31日
F. I. A. Homol. No 5417

14/6E

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録J項及びJAF国内競技車両規則に従った公認書式。

Make Toyota Motor Co., Ltd
製造会社名
Modification's application starts with serial No. TA10-000001
適用年月日 Apr. 1971
Commercial denomination after application of modifications Toyota Carina 1400, TA10-K
The modifications are to be considered as: ~~normal~~ normal evolution of the type
Date amendment is valid from 1875 List

Description of amendment 内容

Revision of error

Descriptions about item NO. 187, 188, 202, 203 of 1400cc Type T Engine are wrong. It is the cause of mistake that we have not taken into account opening and closing ramp.

right values are as follows

INLET

- 187. Valves open at (with tolerance for tappet clearance indicated) B. T. D. C 23° 10°
- 188. Valves close at (with tolerance for tappet clearance indicated) A. B. D. C 71° 10°
tappet clearance 0.20 mm (hot)

EXHAUST

- 202. Valves open at (with tolerance for tappet clearance indicated) B. B. D. C 69° 10°
- 203. Valves close at (with tolerance for tappet clearance indicated) A. T. D. C 33° 10°
tappet clearance 0.33 mm (hot)

Stamp and signature of the JAF

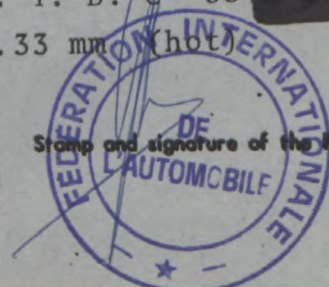
JAF公認印及び署名

難波靖治

Yasuharu Nanba



Stamp and signature of the F.I.A.





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F. 承認番号 T-169E-17
発給年月日 昭和51年1月31日

F.I.A. Homol. No 5417

15/7E

COMMISSION SPORTIVE
00373 02.2.75
INTERNATIONALE

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

国際スポーツ自動車連盟(F.I.A.)の国際競技車両規則に定める承認書式

Make Toyota Motor Co., Ltd. Model Toyota Carina 1400, TA10-K

Modification's application starts with serial No. chassis 適用車台番号 TA10, TA12
engine 適用エンジン番号 T, 2T

Application of this amendment started the 1st. Jun 1975

Commercial denomination after application of modifications Toyota Carina Series

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

Date amendment is valid from 16/76 List

Description of amendment 内容

Following item is changed.

COACHWORK (Photograph A and B)

1. 2 Door

Photo A :
3/4 view of car from front

Photo B :
3/4 view of car from rear



Stamp and signature of the JAF

JAF 承認印及署名

難波靖治

Yasuharu Nanba



Stamp and signature of the F.I.A.

Make TOYOTA

Model TA10-K
型式

J.A.F公認番号 T-169E-17

F.I.A.Rec.No. 5417

2. 4 Door

Photo A :
3/4 view of car from front



Photo B :
3/4 view of car from rear

