



JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

JAF公認番号 T-163
グループ フォーリング
発効年月日 71.3月末日

F. I. A. Recognition No. 5418
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 TA20-000001

engine 製造開始エンジン番号 T 0001001

Recognition is valid from 1st July 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 Celica 1400, TA20-K

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

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

List 71/7

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 May 1971

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

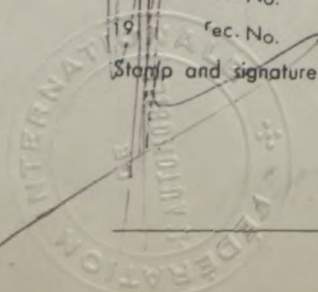
Stamp and signature of the JAF

JAF公認印及び署名

難波靖彦

Yasuharu Nanba

Stamp and signature of the F. I. A.



Make Toyota

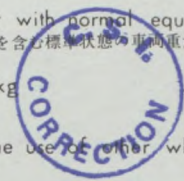
Model TA20-K
型式

J·A·F公認番号 T-163
F.I.A. Rec. No. 5418

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

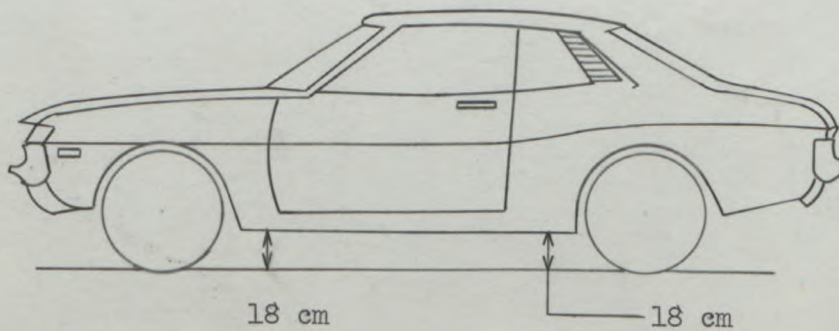
1. <u>Wheelbase</u> ホイールベース	242.5	cm	95.5	inches
2. <u>Front track</u> トレッド (前)	128.0	cm	50.4	inches *
3. <u>Rear track</u> トレッド (後)	128.5	cm	50.6	inches *
4. Overall length of the car 全長	416.5	cm		inches
5. Overall width of the car 全幅	160.0	cm		inches
6. Overall height of the car 全高	131.0	cm		inches
7. Capacity of fuel tank (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, 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)	885	kg	1953	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	160	cm	Rear リヤ	160	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 TA20-K
型式

J.A.F 公認番号 T-163
F.I.A. Rec. No. 5418

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 ~~分体構造~~ / 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
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 Glass
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~~ - no 39. Air-conditioning : ~~YES~~ - no
40. Ventilation : yes - ~~NOX~~
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 x 2 lbs
43. Rear seats, type of seats and upholstery Bench, Vinyl
44. Front bumper, material (s) Steel Weight 5.0 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) 5.5 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 : ~~YES~~ - 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
ロックツーロック
63. In case of servo-assistance

Make Toyota

Model TA20-K
型式

J·A·F公認番号 T-163
F.I.A. Rec. No. 5418

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 | | Independent, Mcpharson |
| 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
形式 | | Hydraulic telescopic |
| 78. Rear suspension (photogr. E), type
リヤサスペンションの形式 | | Rigid axle |
| 79. Type of spring
スプリングの種類 | | Coil |
| 80. Stabiliser (if fitted) | | |
| 81. Number of shockabsorbers
ショックアブソーバーの数 | 2 | |
| 82. Type
形式 | | 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 | |
| 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	2		1	
94. Bore of wheel cylinder (s) ホイールシリンダーの内径	23.8, 28.3	mm	17.5	mm
Drum Brakes ドラムブレーキ				
95. Inside diameter ドラムの内径	229	mm	229	mm
96. Length of brake linings ライニングの長さ	219	mm	219	mm
97. Width of brake linings ライニングの幅	45	mm	40	mm
98. Number of shoes per brake ブレーキ当りのシューの数	2		2	
99. Total area per brake 1 ブレーキ当りの総摩擦面積	197 x 10 ²	mm ²	sq. in. 175x10 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		mm		mm
101. Thickness of disc ディスクの厚さ		mm		mm
102. Length of brake linings パッドの長さ		mm		mm
103. Width of brake linings パッドの幅		mm		mm
104. Number of pads per brake. ブレーキ当りのパッドの数				
105. Total area per brake 1 ブレーキ当りの総摩擦面積		mm ²	sq. in.	mm ² sq. in.

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Model TA20-K
型式

J·A·F公認番号 T-163
F.I.A. Rec. No. 5418

ENGINE (photographs J and K) **

130. Cycle サイクル	4	131. Number of cylinders シリンダー数	4
132. Cylinder arrangement シリンダー配列	In-line		
133. Bore ボア	80 mm	134. Stroke ストローク	70 mm
135. Capacity per cylinder 1シリンダーの排気量	352		2.76 in.
136. Total cylinder-capacity 総排気量	1407		21.48 cu. in.
137. Material (s) of cylinder block シリンダーブロックの材質	Cast iron		85.86 cu. in.
138. Material (s) of sleeves (if fitted) スリーブの材質			
139. Cylinder-head, material (s) シリンダーヘッドの材質	Aluminum-alloy	Number fitted 数	1
140. Number of inlet ports 吸気孔の数	4	141. Number of exhaust ports 排気孔の数	4
142. Compression ratio	8.5		
143. Volume of one combustion chamber	46.9	cm ³	cu. in.
144. Piston, material ピストンの材質	Aluminum-alloy	145. Number of rings リングの数	3
146. Distance from gudgeon pin centre line to highest point of piston crown	46	mm	inches
147. Crankshaft : moulded / 鍛造 クランクシャフト 鋳造 / 鍛造		148. Type of crankshaft : integral / xxxxxx クランクシャフトの形式 : 一体式 / xxxxxx	
149. Number of crankshaft main bearings メインベアリングの数	5		
150. Material of bearing cap ベアリングキャップの材質	Cast iron		
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 潤滑油量	3.7	ltrs	pints quarts US
153. Oil cooler : yes / no オイルクーラー : 有 / 無			
154. Method of engine cooling	Water		
155. Capacity of cooling system	6.5	ltrs	pints quarts US
156. Cooling fan (if fitted), dia.	320	mm	inches
157. Number of blades of cooling fan	4		

Bearings **

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

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	lbs
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

Model TA20-K
型式

J·A·F 公認番号 T-163
F.I.A. Rec. No. 5418

ENGINE ACCESSORIES
エンジン補機

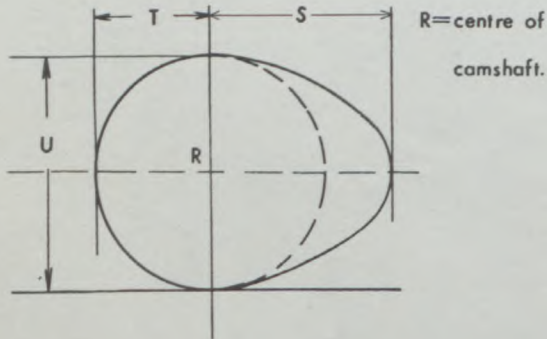
- | | | |
|--|--------------------------|---|
| 230. Fuel pump : mechanical and / or electric
燃料ポンプ 機械式 電気式 XXXX | 231. No. fitted
ポンプの数 | 1 |
| 232. Type of ignition system
点火方式 | Make & Break | |
| 234. No. of ignition coils
コイルの数 | 1 | |
| 236. Generator, type: dynamo / alternator-number fitted
発電機 交流 数 | 1 | |
| 238. Voltage of generator | 12 volts | |
| 240. Location
バッテリー位置 | Engine room | |
| 241. Voltage of battery
バッテリー電圧 | 12 volts | |

- | | |
|--|--------|
| 233. No. of distributors
ディストリビューターの数 | 1 |
| 235. No. of spark plugs per cylinder / rotor
シリンダー当りのプラグ数 (XXXXXX) XXXXXX XXXXXX | 1 |
| 237. Method of drive
駆動方式 | V belt |
| 239. Battery, number
バッテリーの数 | 1 |

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 | output at that figure | 86 PS (JIS) |
| 252. Maximum torque | 11.7 kg-m | at 3800 rpm | |
| 253. Maximum speed of the car | 165 | 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

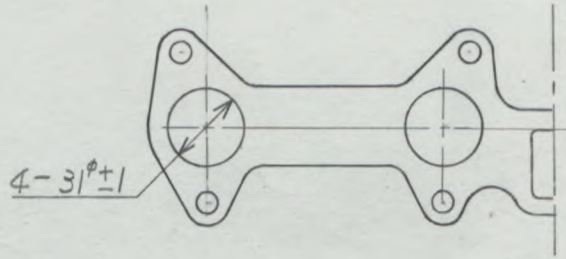
S =	22.4	mm	0.88	inches
T =	15.9	mm	0.63	inches
U =	31.9	mm	1.26	inches

Make Toyota

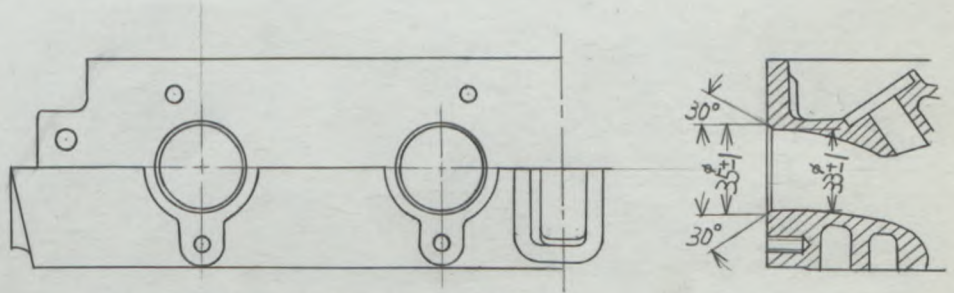
Model TA20-K
型式

J·A·F公認番号 T-163
F.I.A. Rec. No. 5418

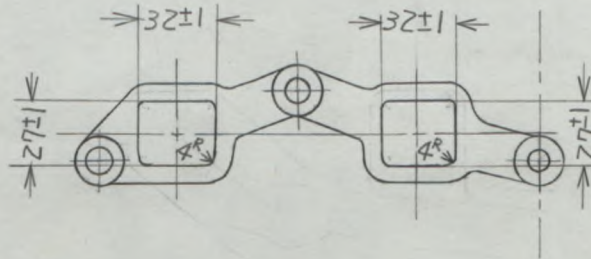
Drawing inlet manifold ports, side of cylinder-head/housing. scale or dimensions and manufacturing tolerance.



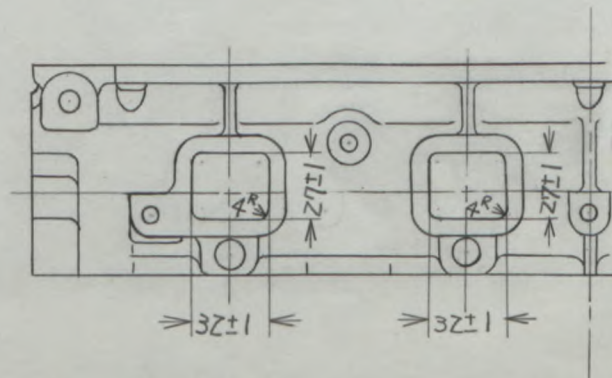
Drawing of entrance to inlet port of cylinder-head/housing. scale or dimensions and manufacturing tolerance.



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



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



Unit: mm
Tolerance: ± 1

Make Toyota

Model TA20-K
型式

J·A·F 公認番号 T-163
F.I.A. Rec. No. 5418

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

- Method of operation 作動方式 Mechanical
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 ギヤー比 4.11 3.90
Number of teeth 歯数 37/9 39/10

Make Toyota

Model TA20-K
型式

J·A·F 公認番号 T-163
F.I.A. Rec. No. 5418

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

Disc brake on front

93 : Number of cylinder per wheel	1
94 : Bore of cylinder (s)	47.6 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

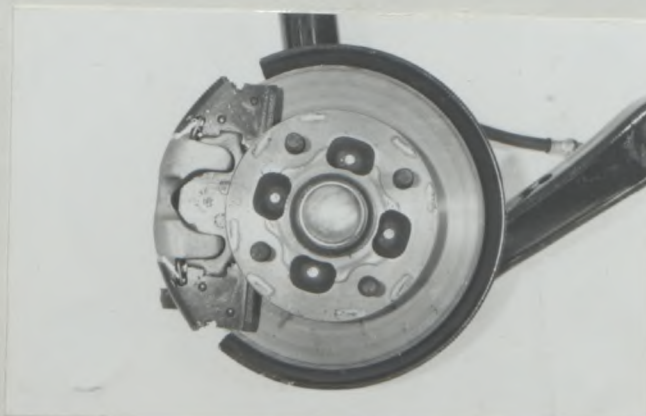


Photo. F, Front brake disc with caliper

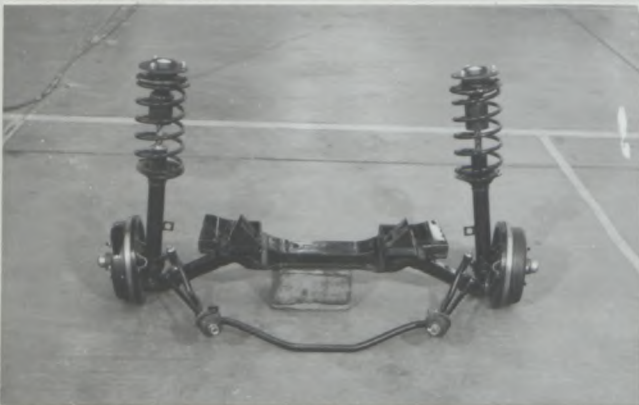
(Part number : 47710-12050)
47720-12050)

Photograph

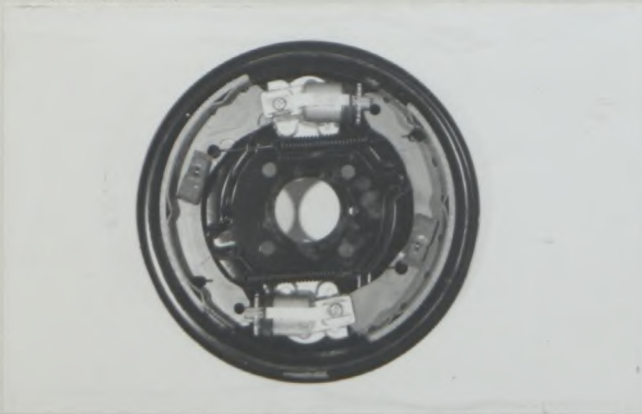
B, 3/4 view of car from rear 全体写真(斜め後方)



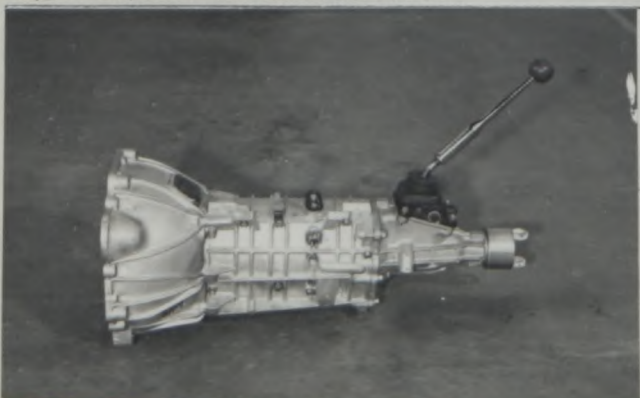
D, Front axle complete, removed from car. Without wheels.
フロントサスペンション



F, Front brake, drum removed ~~or disc with rotor~~
フロントブレーキ



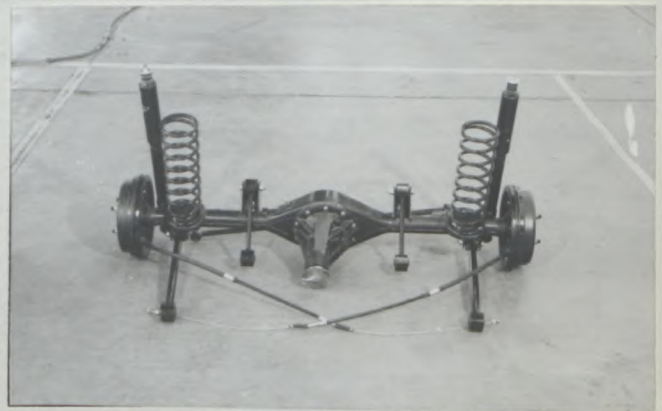
H, Gear-box, view from side トランスミッション



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 ~~or disc with rotor~~
リヤブレーキ



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



Make Toyota

Model 型式 TA20-K

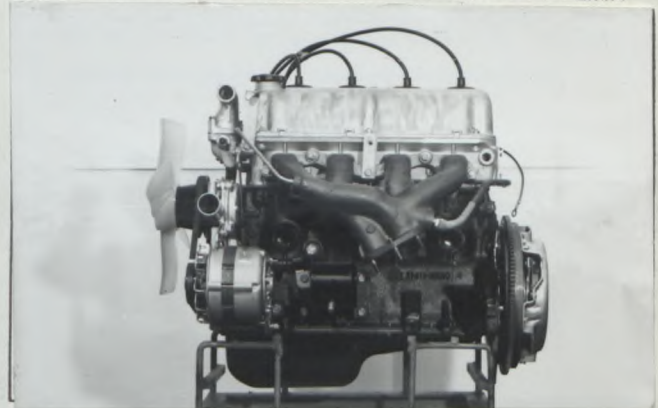
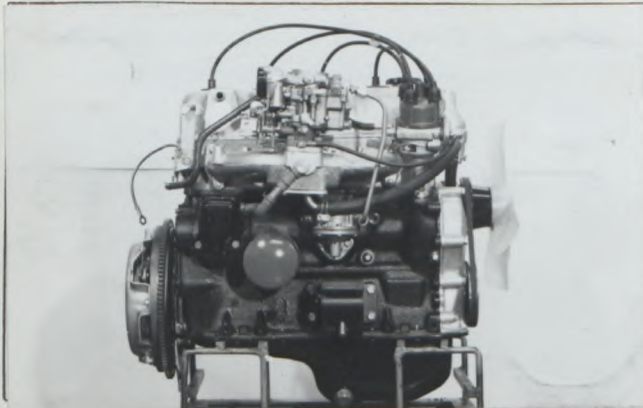
J·A·F公認番号 T-163
F.I.A. Rec. No. 5418

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

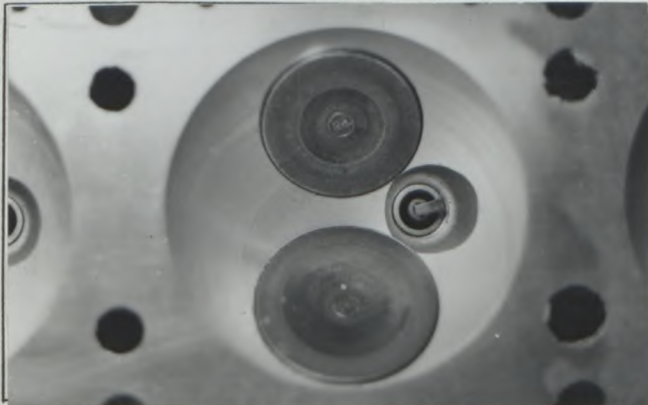
写真

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



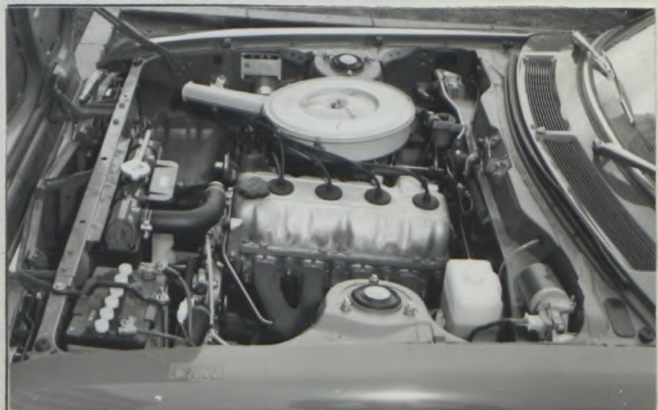
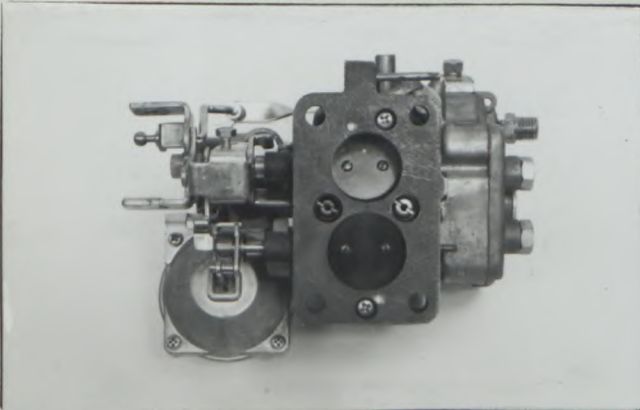
L, Combustion chamber 燃焼室 / Piston housing XXXXX XXXX

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



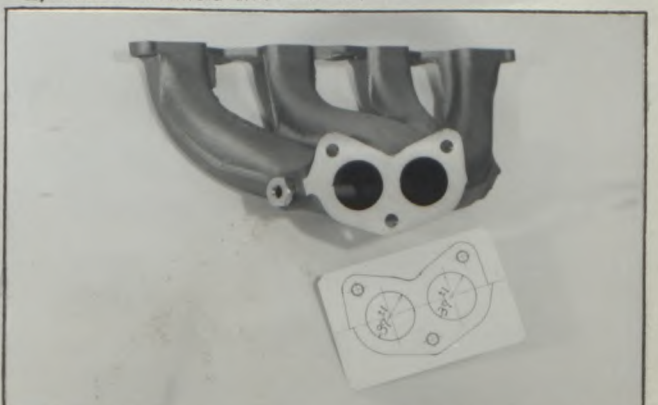
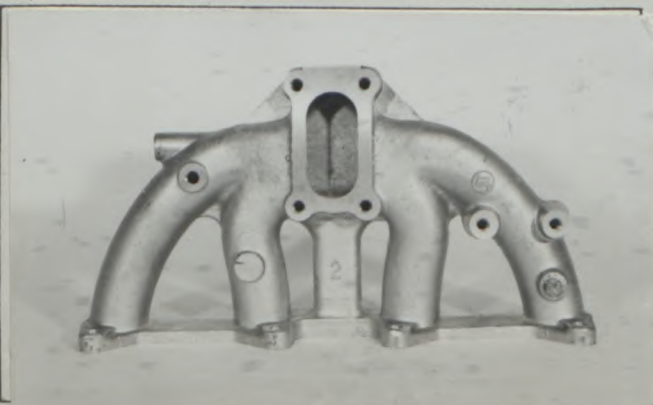
N, Carburettor (view from side of manifold) 気化器

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



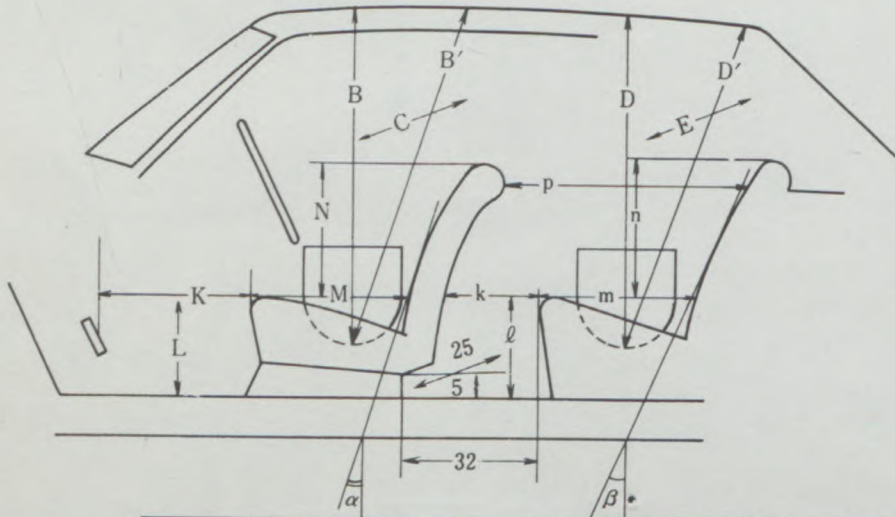
P, Inlet manifold 吸気マニホールド

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

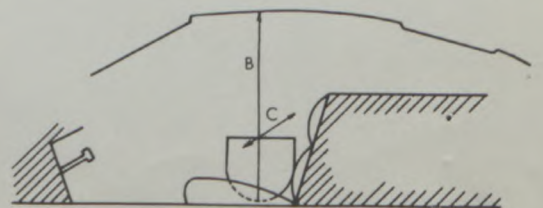


Minimum Dimensions (cm)							
B	B'	α	C	D	D'	β	E
92	100	15°	131	93	92	20°	127

Minimum Dimensions (cm)										
L	l	M	m	N	n	k+m	p	k	k+l+m	K+L+M
25	28	47	43	62	54	68	68	25	96	122
0.9L = 22.5		0.85M = 39.95		0.8N = 49.6		0.8(k+m) = 54.4		(15)	(95)	(120)

For two seaters:
2座席

Minimum	Dimensions
B	C
cm	cm



Make Toyota

Model TA20-K
型式

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 TA20-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	mm		in.
トロコイド長軸長さ			
404. Trochoid, length of minor Axis	mm		in.
トロコイド短軸長さ			
405. Trochoid, width	mm		in.
トロコイドの幅			
406. Trochoid, generating radius (Containing equidistance)	mm		in.
トロコイドの生成半径 (平行移動量を含む)			
407. Eccentricity	mm		in.
偏心量			
408. Capacity per Rotor	cm ³		cu. in.
1ローター当りの排気量			
409. Total capacity	cm ³		cu. in.
総排気量			
410. Equivalent total capacity (by App. J Art. 252)	cm ³		cu. in.
換算総排気量 (J項 252条による)			
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			

NOT VALID FOR GROUP 1 ONLY

Optional
Air spoiler



Photo
Front air spoiler
(part number : 53850-14010)



Photo
Rear air spoiler
(part number : 64440-14010)

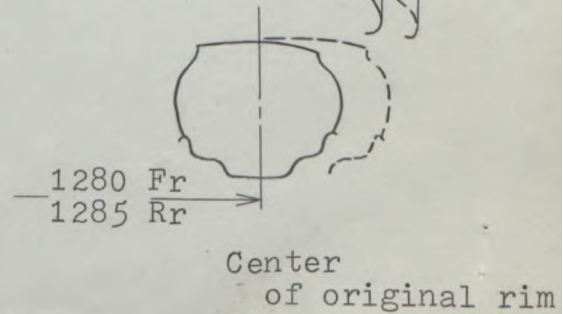
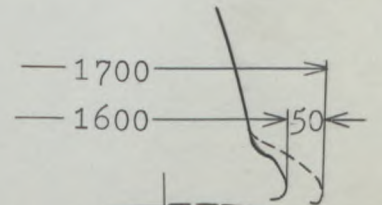
Wing extensions



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

Option

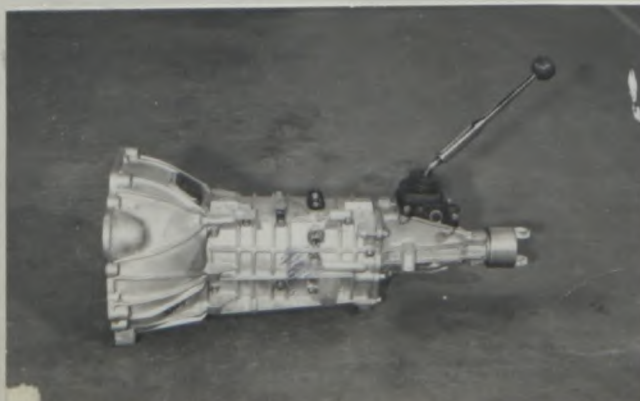
GEAR BOX

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)





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F公認番号
発効年月日

T-163 2-1
71/3/20

F. I. A. Homol. No

5418/1115

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 Celica 1400, TA20-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 TA20-000001
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 Celica 1600, TA22-K

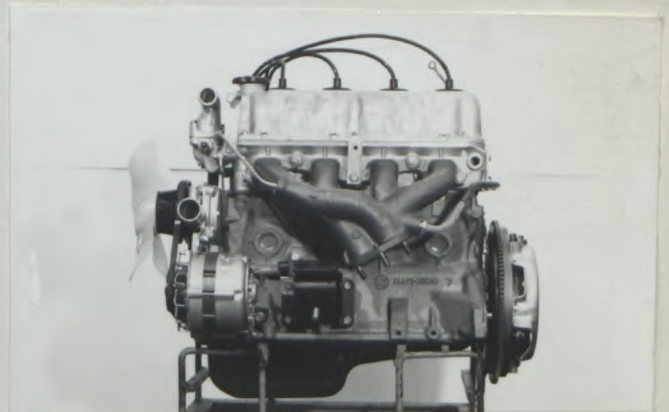
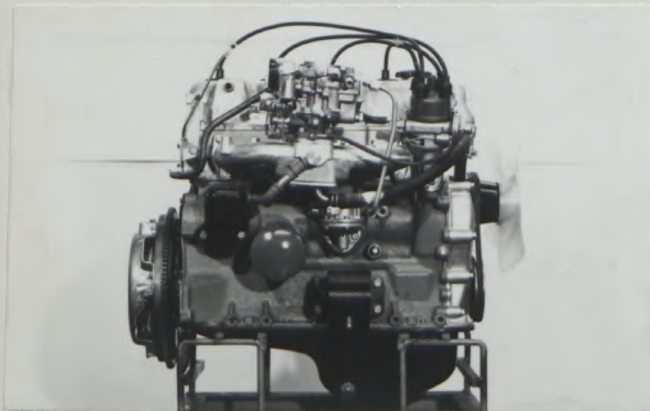
The modifications are to be considered as: Variant / normally evolution of the type
変型 / 改良

Date amendment is valid from 1st July 1971 List 71/7

Description of amendment 内容

Another type of engine can be selected for TA20-K cars as maker's option.

136 : Total cylinder capacity 1588 cm³ 96.91 cu. in.
Photo. J 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 TA22-000001.

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.

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)

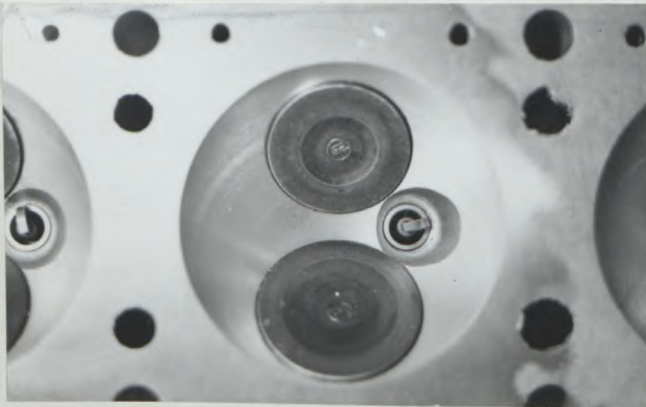
213 : Model	2T
216 : Minimum dimensions of mixture passage(s)	23 & 27

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

250 : Max. engine output	100 PS (type of horsepower : JIS) at 6000rpm
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	170 km/hour

Photograph

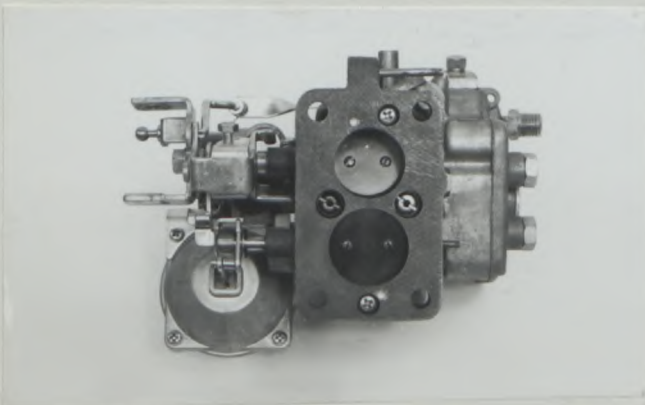
L , combustion chamber



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-1632-2
発効年月日 71.3月末日
F.I.A. Homol. No 5418/2/2W

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 Celica 1400, TA20-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 TA20-000001
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 Celica 1600, TA22-KZ

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 TA20-K cars as maker's option.

Photo. J

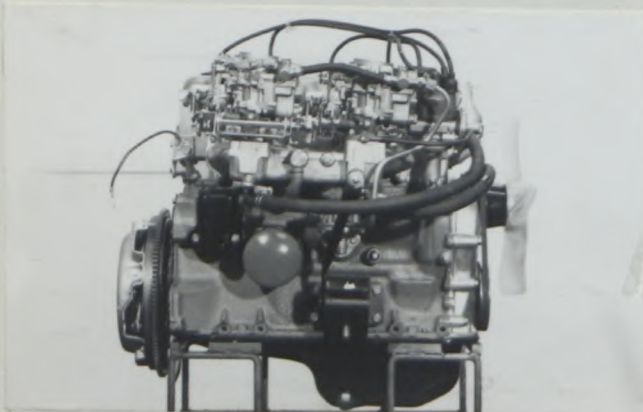
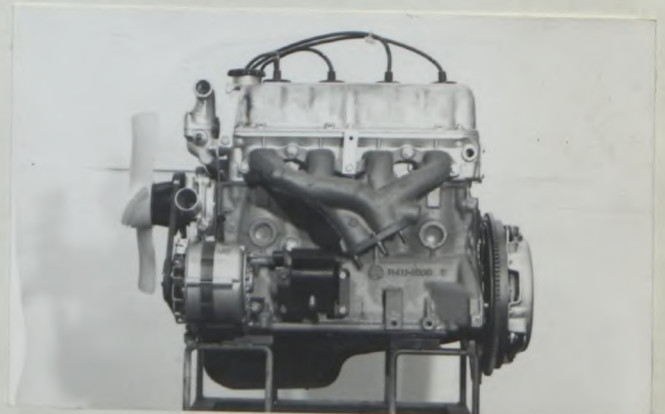


Photo. K



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

The No. of chassis installed this engine include on and after TA22-000001.

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.

Make Toyota

Model TA22-KZ
型式

J·A·F公認番号 T-163 V-2
F.I.A. Rec. No. 5418/2/2W

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	9.4	
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 & 26 mm

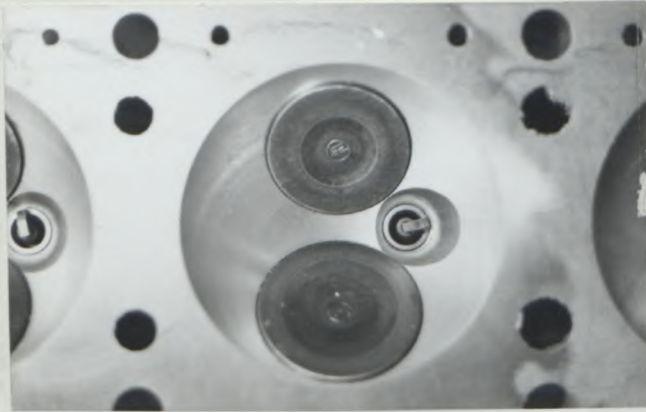
ENGINE AND CAR PERFORMANCES

(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	175 km/hour	

Photograph

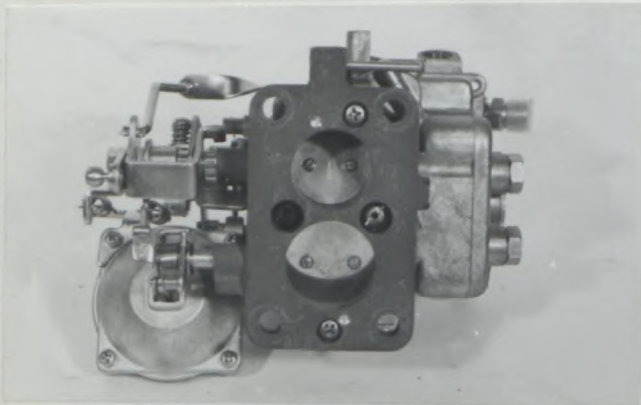
L , combustion chamber



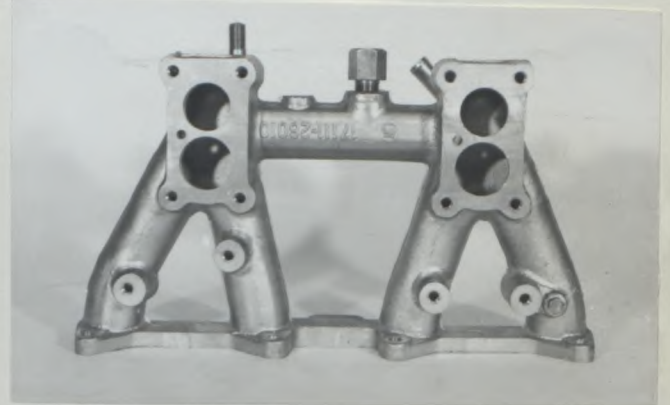
M , piston crown



N , carburettor (view from side manifold)



P , inlet manifold



Q , exhaust manifold





JAPAN AUTOMOBILE FEDERATION

社団 日本自動車連盟
法人

J.A.F 公認番号 T-163V-3
発効年月日 71.3月末日

F.I.A. Homol. No 5418/3/35

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
適用年月日

Model Toyota Celica 1400, TA20-K
型式及び通称名

No. chassis engine 適用シャーシー番号 TA20-000001
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 Celica 1600, TA22-MQ

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

Date amendment is valid from 1st July 1971 **List** 71/7

Description of amendment 内容

Another type of engine can be selected for TA20-K cars as maker's option.

Photo. J

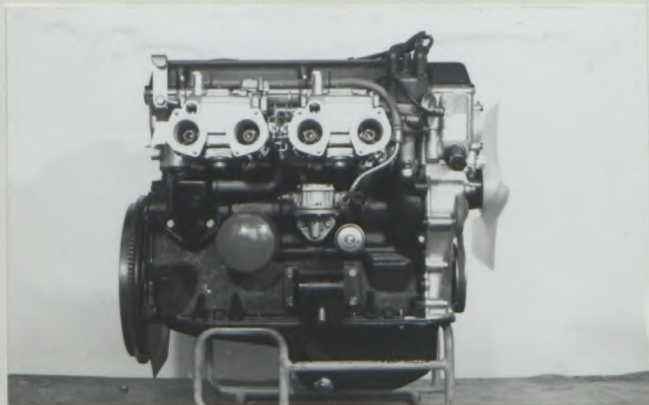
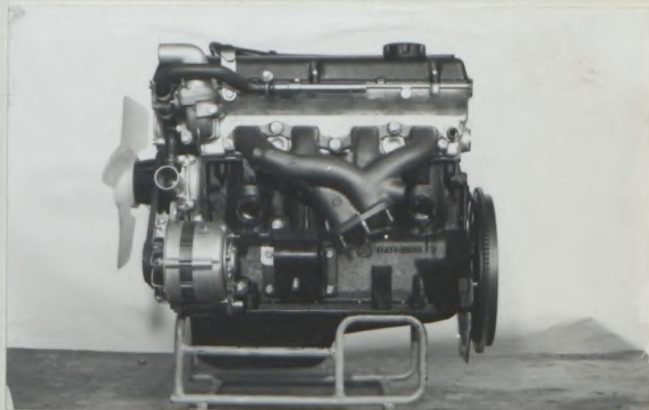


Photo. K



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 TA22-000001.

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.

Make Toyota

Model TA22-MQ
型式

J.A.F公認番号 T-163V-3
F.I.A. Rec. No. 5418/3/30

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	7.4ltrs		

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°±10°	
188 : Valves close at (with toerance for tappet clearance indicated)	A.B.D.C.	48°±10°	

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°±10°	
203 : Valves close at (with tolerance for tappet clearance indicated)	A.T.D.C.	16°±10°	

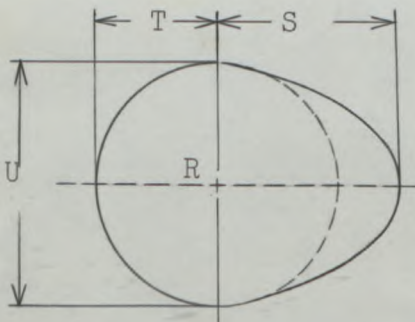
CARBURETION (Photograph N)

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	6800 output at that figure 113 PS (JIS)
252 : Maximum troque	14.5 Kg-m at 5200 rpm
253 : Maximum speed of the car	190 Km / hour
255 : Cam profile	

R=center of camshaft



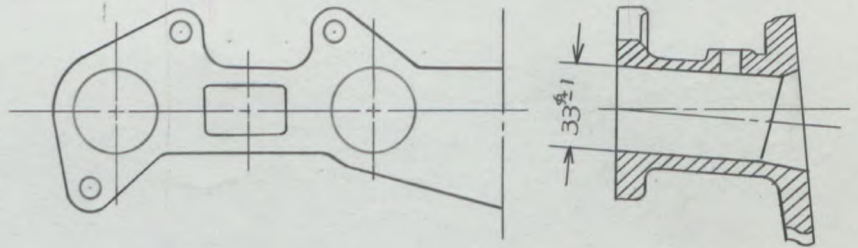
Inlet cam

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

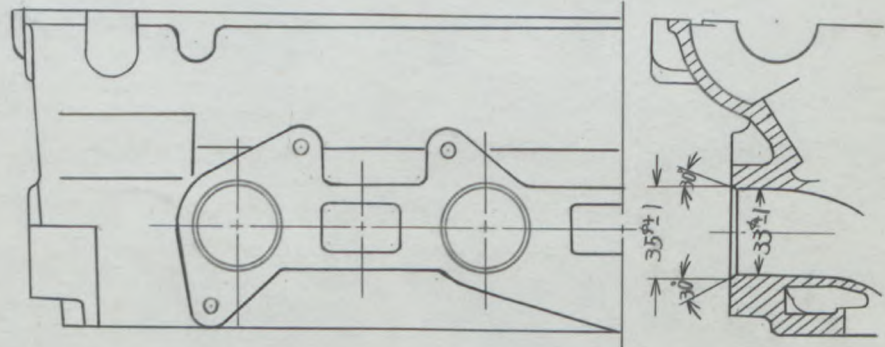
Exhaust cam

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

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



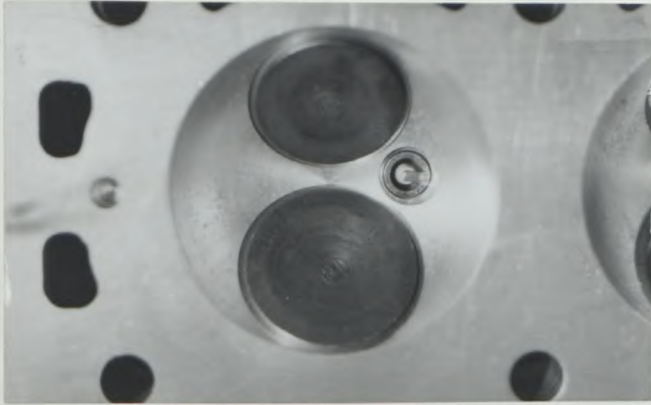
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



Unit : mm
Tolerance : ±1

Photograph

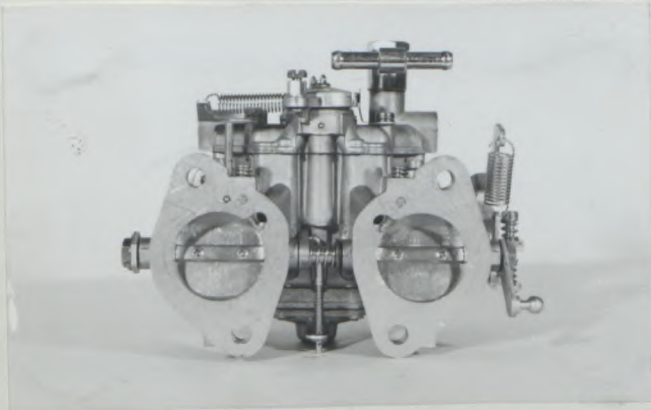
L, combustion chamber



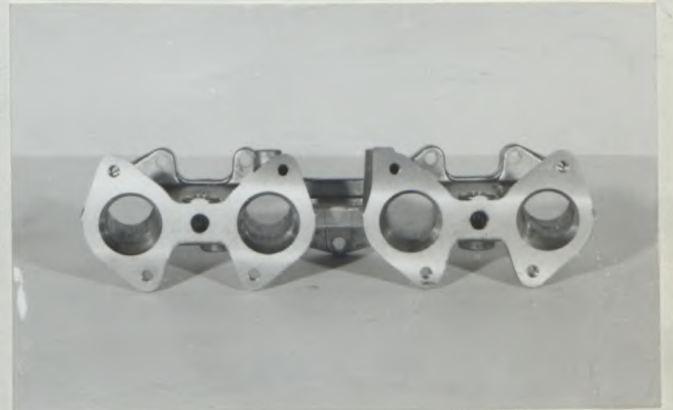
M, piston crown



N, carburettor(view from side of 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-163 V-6
発効年月日 47. 3. 31
F.I.A. Homol. No 5418

h/hv

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 Celica 1400, TA20-K

製造会社名
Modification's application starts with serial No. chassis 適用シャーシ番号 TA20-000001
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 Celica 1400, TA20-K

The modifications are to be considered as: Variant / ~~XXXXXX~~
変型 / ~~XXXXXX~~

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
<u>Rim diameter :</u>	330 mm.	13 inches
<u>Rim width :</u>	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 TA20-K
型式

J.A.F公認番号 T-163 V-6

F.I.A. Rec. No. 5418 4/4V

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-163 E-6

発効年月日 47. 3. 31

F.I.A. Homol. No 5418

5/1E

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。

Make Toyota Motor Co., Ltd. Model Toyota Celica 1400, TA20-K

Modification's application starts with serial No. chassis 適用シャーシー番号 TA20-000001 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 celica 1400, TA20-K

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

Date amendment is valid from List

Description of amendment 内容

WHEELS

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

Stamp and signature of the JAF

JAF公認印及び署名

Handwritten signature: 庭山博史

Hiroshi Niwayama



Stamp and signature of the F.I.A.

Handwritten 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-163E-10
発効年月日 47. 9. 30

F.I.A. Homol. No 5418 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従った公認書式。

Make Toyota Motor Co., Ltd. **Model** Toyota Celica 1400, TA20-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 TA20-038001
 engine 適用エンジン番号 T 081024
Application of this amendment started the 1st Aug, 1972
 適用年月日
Commercial denomination after application of modifications Toyota Celica TA20 series.
 The modifications are to be considered as: ~~XXXXX~~ / normal evolution of the type
 正常進化
Date amendment is valid from List

Description of amendment 内容

COACHWORK (photograph A,B and C)

1. Toyota Celica TA20-K
(ET type)

Photo. A

3/4 view of car from front.

Photo. B

3/4 view of car from rear.



Stamp and signature of the JAF

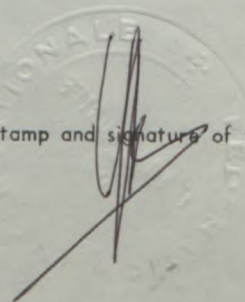
JAF公認印及び署名

庭山博史

Hiroshi Niwayama



Stamp and signature of the F.I.A.



Make Toyota

Model TA20-K
型式

J·A·F公認番号 T-163E-10
F.I.A.Rec.No. 5418 6/2E

Photo. C
Interior view of car through
driver's door with dashboard



(LT type)

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.



(ST type)

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.



2. Toyota Celica TA22-MQ
(GT type)

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 dashboad.



(GTV type)

Photo. A

3/4 view of car from front.



Photo. B

3/4 view of car from rear.





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F.公認番号 T-163V-15
発効年月日 1973年4月30日
F.I.A. Homol. No 5418 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。

Make Toyota Motor Co., Ltd. Model Toyota Celica 1400, TA20-K
 製造会社名 型式及び通称名
 Modification's application starts with serial No. chassis 適用シャーシー型式番号 TA20-000001
 engine 適用エンジン型式番号 T 0001001
 Application of this amendment started the 1 th June, 1972
 適用年月日
 Commercial denomination after application of modifications Toyota Celica 1400, TA20-K series
 The modifications are to be considered as: Variant / ~~Normal evolution of the type~~
 変型 ~~XXXXXXXXXXXX~~
 Date amendment is valid from 1 / 7 / 73 List

Description of amendment 内容

OPTIONAL VALID FOR GROUP 2 ONLY

1. HEAVY DUTY WHEEL HUB FRONT



Photo. Heavy duty wheel hub front
part No. 43511-05860

"valable en Groupe 2 uniquement"
"valid for Group 2 only"

Stamp and signature of the JAF

JAF公認印及び署名

難波清治
Yasuharu Watanabe



Stamp and signature of the F.I.A.

[Signature and stamp of the F.I.A.]

2. HEAVY DUTY REAR AXLE HOUSING

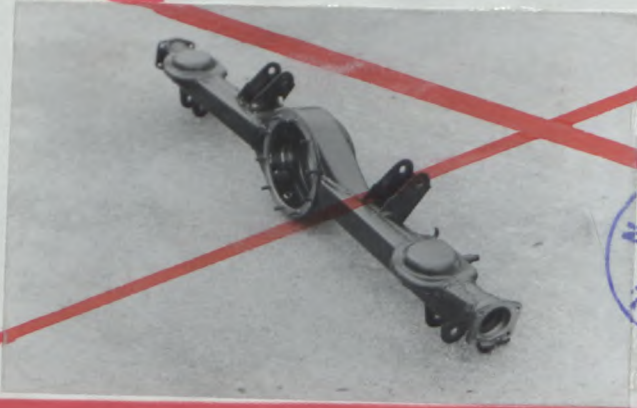
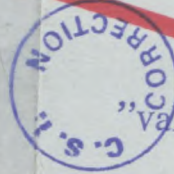


Photo. Heavy duty rear axle housing

part No. 42110-05860



"valable en Groupe 2 uniquement"
"valid for Group 2 only"

3. HEAVY DUTY FRONT LOWER ARM & HEAVY DUTY STRUT BAR



Photo. Heavy duty front lower arm & Heavy duty strut bar

part No.

Heavy duty front lower arm

48068-05860 (RH)

48069-05860 (LH)

Heavy duty strut bar

48660-05860 (RH)

48670-05860 (LH)





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F公認番号 T-163 V-12

発効年月日 1973年1月31日

F.I.A. Homol. No5418

8/6V

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** 型式及び通称名 Toyota Celica 1400 , TA20-K
 製造会社名
Modification's application starts with serial No. chassis 適用シャーシー型式番号 TA20 - 000001
 engine 適用エンジン型式番号 T 0001001
 Application of this amendment started the 25th Sept.1972
 適用年月日
 Commercial denomination after application of modifications Toyota Celica 1400, TA20-K series
 The modifications are to be considered as: Variant / ~~part of~~ ~~exclusion of the type~~
 変型 / ~~本型車~~
 Date amendment is valid from 1/7/73 List

Description of amendment 内容

Optional

Disc Wheel

Weight (per wheel , without tyre)

6.2kg

Rim width

127mm

5inches



Parts NO 42611 - 14080

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 of F.I.A.

Make Toyota

Model TA20-K
型式

J.A.F公認番号 T-163 V-12

F.I.A.Rec.No. 5418

Final Drive

Type of limited slip defferential : Friction

8/6W



Part. No.

41302 - 14011





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F公認番号 T-163V-13
発効年月日 1973年2月28日

F.I.A. Homol. No5418 9/7V

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 Celica 1400 , TA20-K**
 製造会社名 型式及び通称名
 Modification's application starts with serial No. chassis 適用シャーシー型式番号 **TA20-000001**
 engine 適用エンジン型式番号 **T 0001001**
 Application of this amendment started the **1th February , 1973**
 適用年月日
 Commercial denomination after application of modifications **Toyota Celica 1400 , TA20-K series.**
 The modifications are to be considered as: Variant / ~~XXXXXX~~
 変型 / ~~XXXXXX~~
 Date amendment is valid from **1/7/73** List

Description of amendment 内容

OPTIONAL VALID FOR GROUP 2 ONLY
WHEEL SPACER

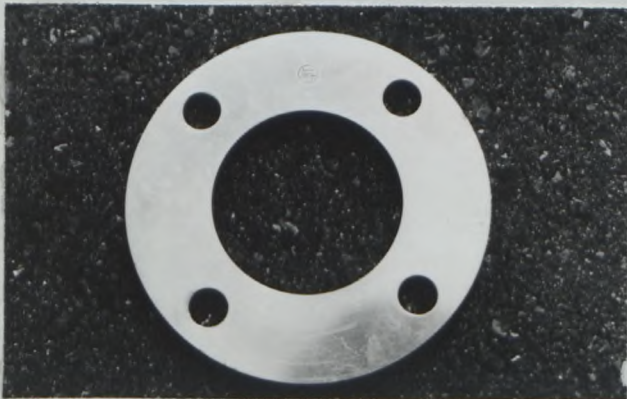


Photo. Wheel spacer
part No.

- 00561-16090 thickness : 3 mm
- 00561-16100 thickness : 5 mm
- 00561-16110 thickness : 10 mm

"valable en Groupe 2 uniquement"
"valid for Group 2 only"

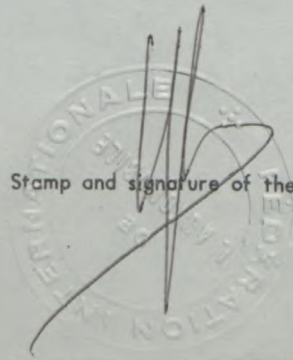
Stamp and signature of the JAF

JAF公認印及び署名

難波靖治
Yasuharu Nanba



Stamp and signature of the F.I.A.



Make Toyota

Model TA20-K
型式

J.A.F 公認番号 T - 163V-13
F.I.A. Rec. No. 5418 9/70

CYLINDER-HEAD

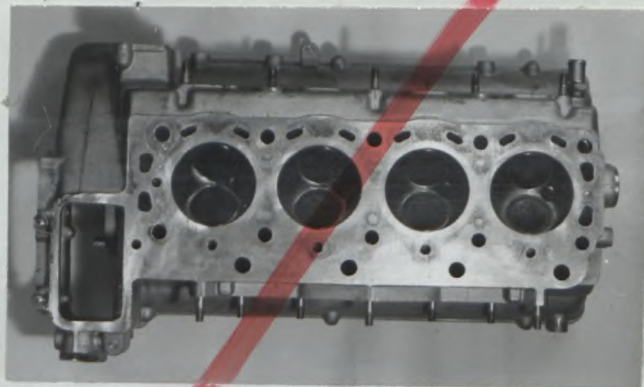
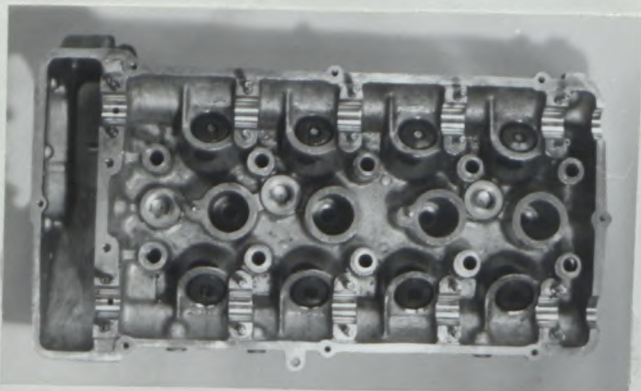


Photo. Cylinder-Head
part No. 11101-29106

170. Number of camshaft
173. Type of valve operation

2
Direct

UNDER SHIELD



Photo. Under shield
part No. 51447-05860

Weight : 2.0 kg

"valable en Groupe 2 uniquement"
"valid for Group 2 only"





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F. 公認番号 T-163V-5
発効年月日 1973年4月30日

F.I.A. Homol. No 5418

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。

Make Toyota Motor Co., Ltd. Model Toyota Celica 1400, TA20-K
 製造会社名 型式及び通称名
 Modification's application starts with serial No. chassis 適用シャシー型式番号 TA20-000001
 engine 適用エンジン型式番号 T 0001001
 Application of this amendment started the 1st November, 1972
 適用年月日
 Commercial denomination after application of modifications Toyota Celica 1400, TA20-K series
 The modifications are to be considered as: Variant / ~~normal production of the type~~
 変型 / ~~XXXXXX~~
 Date amendment is valid from 1/7/73 List

Description of amendment 内容

~~OPTIONAL VALID FOR GROUP 2 ONLY~~

~~ENGINE~~

- ~~147. Crankshaft. ~~XXXXXX~~/stamped~~
- ~~151. System of lubrication. dry sump/~~XXXX XX XXXX~~~~
- ~~152. Capacity, lubrication. 8.0 ltrs~~

~~WEIGHTS~~

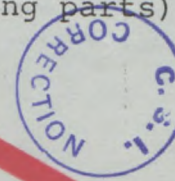
- ~~160. Flywheel (clean) 3.6kg±0.3~~
- ~~161. Flywheel with clutch (all turning parts) 7.5kg±0.6~~
- ~~162. Crankshaft. 13.0kg±0.3~~
- ~~163. Connecting rod 0.61kg±0.06~~
- ~~164. Piston with rings and pin 0.57kg±0.01~~

~~CYLINDER-HEAD~~

- ~~235. No. of spark plugs per cylinder 2~~

~~"valable en Groupe 2 uniquement"~~

~~"valid for Group 2 only"~~



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]

10/8V

Photo

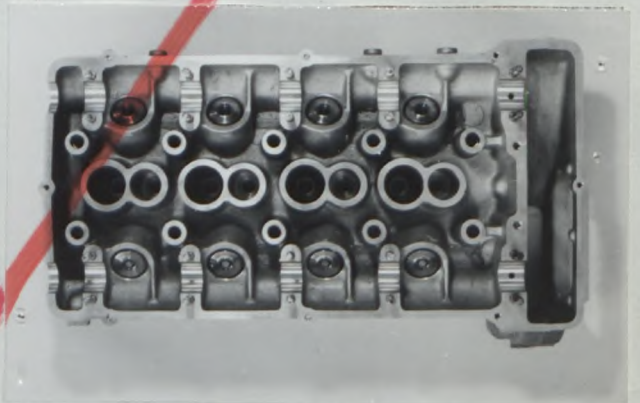
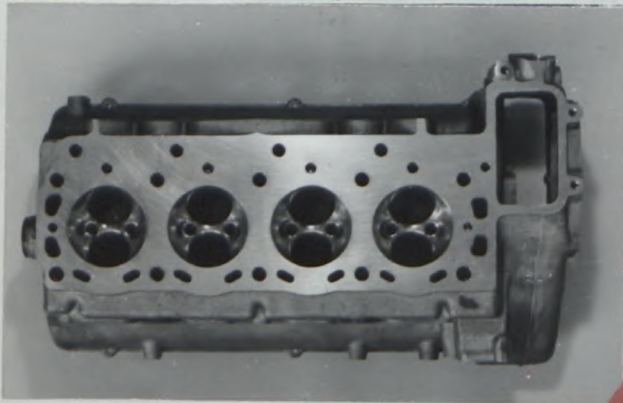
Flywheel (part No. 13451-26010)



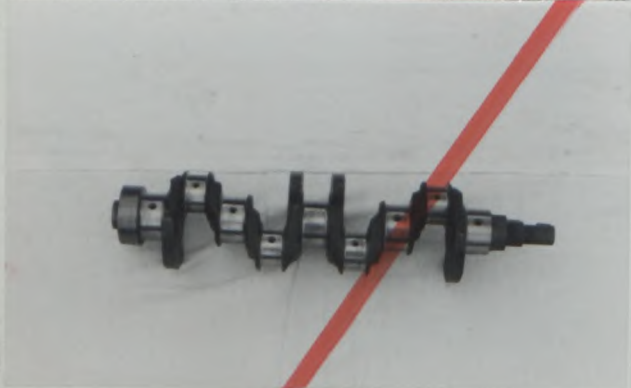
Clutch (part No. 31000-14010)



Cylinder - head (part No. 11111-09001)



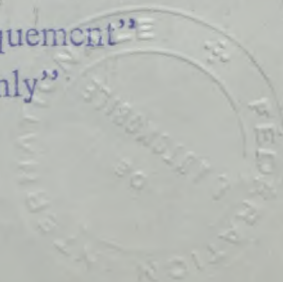
Crankshaft (part No. 13411-26010)



Connecting rod (part No. 13201-88220)



"valable en Groupe 2 uniquement"
"valid for Group 2 only"



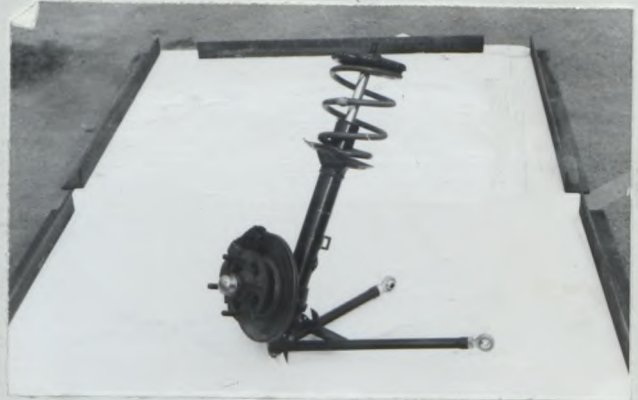
10/8V

Photo.

Dashboard



Front suspension



Front suspension cross member
(part No. 51201-14030)



Rear suspension



Oil dry sump system



Oil dry sump system
(Attached production report)



- Pump Assy. oil
part No. 15100-26010
- Cooler Assy. oil
part No. 15710-26010
- Tank Assy. oil
part No. 15740-26010
- Tank Assy. bleeder
part No. 15750-26010
- Flexible hose
part No. 27009-2H004
27009-2H005

"valable en Groupe 2 uniquement"
"valid for Group 2 only"





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F公認番号

発効年月日

T-163E-16
1973年7月31日

F.I.A. Homol. No 5418

11/3E

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
 適用年月日
Application of this amendment started the
 適用年月日
Commercial denomination after application of modifications Toyota Celica 1400, Ta20-K series
The modifications are to be considered as: ~~variant~~ normal evolution of the type
 変型 / 正常進化
Date amendment is valid from 1.10.73 **list**

Description of amendment 内容

OPTIONAL

Revision of error

Disc brake on front

100: Outside diameter

228 mm

Stamp and signature of the JAF

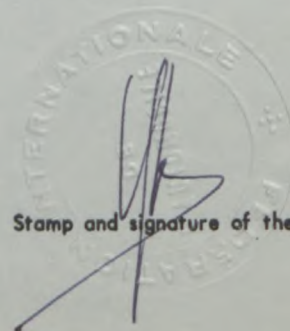
JAF公認印及び署名

難波靖治

Yasuharu Nanba



Stamp and signature of the F.I.A.





JAPAN AUTOMOBILE FEDERATION

社団 日本自動車連盟
法人

J.A.F. 公認番号 T-163 V-17
発効年月日 1973年7月31日
F.I.A. Homol. No 5418

12/9U

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

国際自動車連盟規約第1項及びF.I.A.の国際競技車両規則第16条に基き承認書式

Make Toyota Moyor Co., Ltd. Model Toyota Celica 1400, TA20-K

型式及通称名
Modification's application starts with serial No. chassis 適用 番号 TA20-000001
engine 適用 番号 T 0001001

Application of this amendment started the December 1972

Commercial denomination after application of modifications Toyota Celica 1400, TA20-K series

The modifications are to be considered as: Variant / ~~category of vehicle~~

Date amendment is valid from 1.10.73 List

Description of amendment (in)

OPTIONAL VALID FOR GROUP 2 ONLY

Front shock absorber (part No. 48510-08050) Strut bar (part No. 48603-08050)



Lower arm (part No. 48605-08050 RH,
48606-08050 LH)



"valable en Groupe 2 uniquement"
"valid for Group 2 only"

Stamp and signature of the JAF

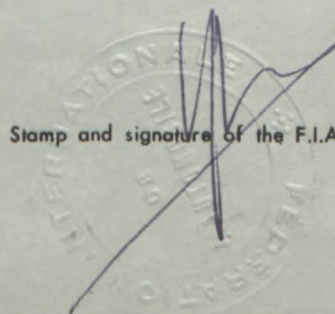
J.A.F. 公認印及び署名

難波清治

Yasuharu Nanba



Stamp and signature of the F.I.A.



Make Toyota

Model TA20-K
型式

J.A.F.公認番号 T-163V-17

F.I.A.Rec.No. 5418

12/9V

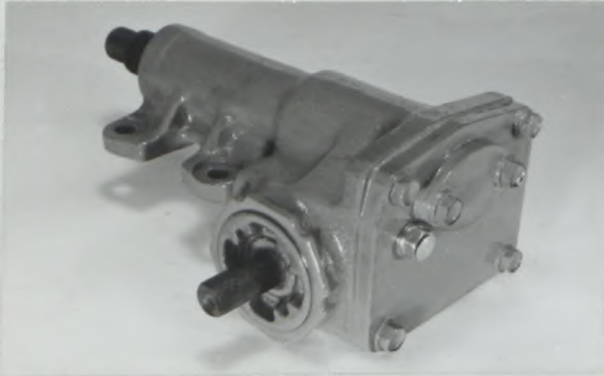
OPTIONAL

Photo

Steering Gear box

part No. 45310-05868 (RH)

45310-05869 (LH)



60. Type

Ball screw and lever

62. Number of turns of steering wheel from lock to lock

3.0

"valable en Groupe 2 uniquement"
"valid for Group 2 only"





JAPAN AUTOMOBILE FEDERATION

社団 日本自動車連盟
法人

J.A.F.公認番号 T-163 E-20
発効年月日 1973年9月30日
F.I.A. Homol. No S418
B/4E

COMMISSION SPORTIVE
01333 06.1173
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録J項及F.I.A.社内競技車両規則付録Jに承認書式

Make Toyota Motor Co., Ltd.

Model Toyota Celica 1400. TA20-K

Modification's application starts with serial

No. chassis 適用車台番号 TA20-000001
engine 適用エンジン番号 2T 0001001

Application of this amendment dated the 1st May, 1973

Commercial denomination after application of modifications Toyota Celica 1600 . TA22-MQ

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

Date amendment is valid from 1.1.74 List

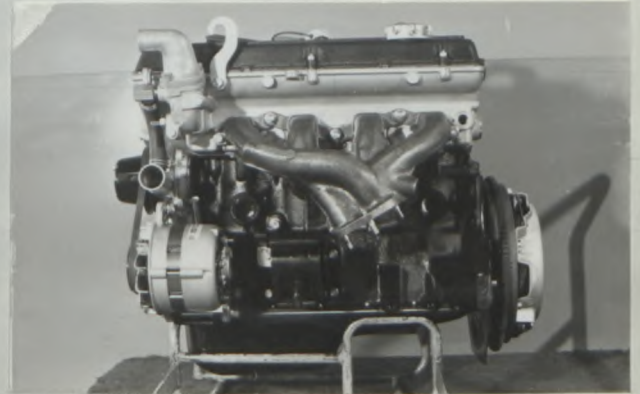
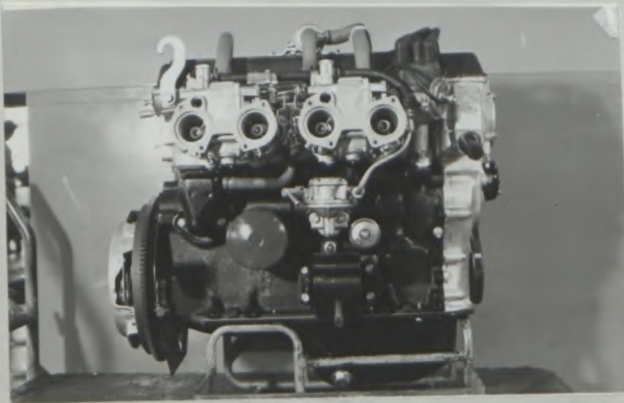
Description of amendment 内容

The following items have been changed.

ENGINE (1600 cc Twin-Cam, Type:2T-G)

Photo.J . engine unit
out of car from right.

Photo.K . engine unit
out of car from left.



Stamp and signature of the JAF

J.A.F.公認印及び署名

難波靖彦

Yasuharu Nanba



Stamp and signature of the F.I.A.

146. Distance from gudgeon pin center line to highest point of piston crown 46 mm

INLET

181. Diameter of valves 45 mm 1.77 in.

182. Max. valve lift 10 mm 0.39 in.

187. Valves open at (with tolerance for tappet clearance indicated) B.T.D.C. $24^{\circ} \pm 10^{\circ}$

188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C. $52^{\circ} \pm 10^{\circ}$

EXHAUST

196. Diameter of valves 39 mm 1.54 in.

197. Max. valve lift 10 mm 0.39 in.

202. Valves open at (with tolerance for tappet clearance indicated) B.B.D.C. $56^{\circ} \pm 10^{\circ}$

203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C. $20^{\circ} \pm 10^{\circ}$

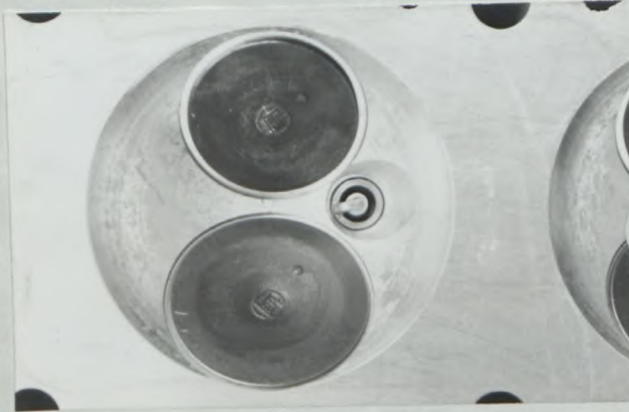
CARBURETION (Photo. N)

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



Photograph

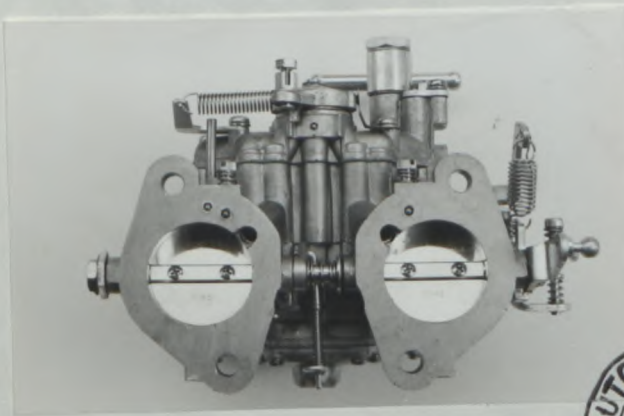
L. combustion



M. piston crown



N. carburettor
(view from side of manifold)



FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE

FICHE D'EXTENSION D'HOMOLOGATION
CONFORME A L'ANNEXE J DU CODE SPORTIF INTERNATIONAL

Marque Toyota Motor Co., Ltd. Modèle Toyota Celica 1400. TA20-K
 Numéros de série inaugurant les modifications décrites : Châssis/Carrosserie TA20-000001
 Moteur T 0001001
 Date de sortie des premiers véhicules construits avec les modifications : 1st September 1973
 Dénomination commerciale après application des modifications : Toyota Celica 1400. TA20-K
 Cette extension d'homologation doit être considérée comme : variante - ~~XXXXXXXXXXXXXXXXXXXX~~

L'homologation est valable du 1st January 1974 Liste _____

Descriptions des modifications :

VALID FOR GROUP "2" ONLY

OPTIONAL EQUIPMENT

"valable en Groupe 2 uniquement"
"valid for Group 2 only"

BRAKES (Front brake disc)

100. Outside diameter	265 mm
101. Thickness of disc	10 mm

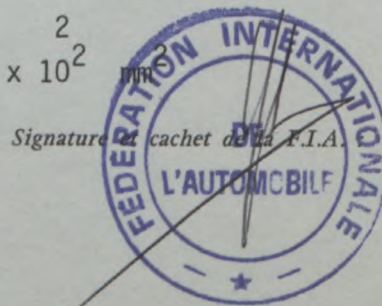
Part N° 43512-06835 Front disc
(Photograph A)

FRONT DISC BRAKE (Ventilated type)

93. Number of cylinder per wheel	2
94. Bore of cylinder (s)	50.8 & 52.4 mm
100. Outside diameter	266 mm
101. Thickness of disc	20 mm
102. Length of brake linings	73 mm
103. Width of brake linings	53 mm
104. Number of pads per brake	2
105. Total area per brake	77 x 10 ² mm ²

Signature et cachet
de l'Autorité Sportive Nationale :

(Photograph B)





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F公認番号 T-163V-19
発効年月日

1973年9月30日

F.I.A. Homol. No 5418 14/10V

COMMISSION SPORTIVE
01223 06.1173
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. **Model** Toyota Celica 1400. TA20-K
製造会社名 型式及び通称名

Modification's application starts with serial No. chassis 適用シャーシー型式番号 TA20-000001
 engine 適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 Celica 1400. TA20-K

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

Date amendment is valid from 1.1.74 **List**

Description of amendment 内容

VALID FOR GROUP '2' ONLY

"valable en Groupe 2 uniquement"
"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~~ A

Stamp and signature of the JAF

JAF公認印及び署名

難波靖博
 Yasuharu Nanba



Stamp and signature of the F.I.A.

Make : Toyota

Model : TA20-K

FIA Rec. N° : 5418

1h/10V

Part N° 47710-05860 (RH) Bore of cylinder 52.4 mm
47720-05860 (LH)
47710-05865 (RH) Bore of cylinder 50.8 mm
47720-05865 (LH)

BRAKES (Front disc brake)

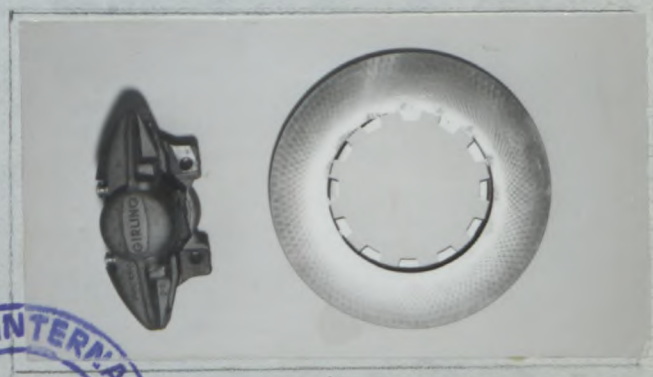
93. Number of cylinders per wheel 4 mm
100. Outside diameter 266 mm
101. Thickness of disc 20 mm

Parts N°	Disc	47710-08054	(RH)
		47720-08054	(LH)
	Calipers	Lockheed	REGD-1RH/CP2361 (RH)
			REGD-2LH/CP2361 (LH)

(Photograph C)



(Photograph A)



(Photograph B)



(Photograph C)



"valable en Groupe 2 uniquement"
"valid for Group 2 only"



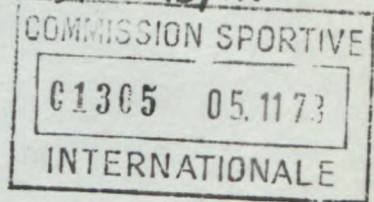
JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F公認番号 T-163V-2/

発効年月日 1973年10月31日

F.I.A. Homol. No. 5418 15/MV



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 Celica 1400, TA20-K
 製造会社名 型式及び通称名
Modification's application starts with serial No. chassis 通用シャーシ型式番号 TA20-000001
 engine 通用エンジン型式番号 T-0001001
Application of this amendment started the 1st October, 1973
 適用年月日
Commercial denomination after application of modifications Toyota Celica 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 1.1.74 List

Description of amendment 内容

OPTIONAL EQUIPMENT

VALID FOR GROUP 2 ONLY

1. UNDER PROTECTOR

"valable en Groupe 2 uniquement"
"valid for Group 2 only"

Photo. Under Protector

Part No. 51447-05866

Weight. 3.0 Kg



Stamp and signature of the JAF

JAF公認印及び署名

難波靖浩

Yasuharu Nanba



Stamp and signature of the F.I.A.

(Handwritten signature)

15/11V

2. FRONT DISC BRAKE (Ventilated Type)

93. Number of cylinder per wheel,	2
94. Bore of cylinder (s)	50.8 & 52.4 mm
100. Outside diameter	266 mm
101. Thickness of disc	20 mm
102. Length of brake linings	73 mm
103. Width of brake linings	53 mm
104. Number of pads per brake	2 mm
105. Total area per brake	77 x 10 ² mm ²

(Photo. ~~Front brake disc & caliper~~
B)

Part No. 47710-05860 (RH) }
47720-05860 (LH) } Bore of cylinder 52.4 mm

47710-05865 (RH) }
47720-05865 (LH) } Bore of cylinder 50.8 mm

"valable en Groupe 2 uniquement"
"valid for Group 2 only"





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F.公認番号 T-163V-23
発効年月日 1974年7月31日
F.I.A. Homol. No 5418 16/12V

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

国際スポーツ法典付則J項及びJAF国内競技車両規則に従った公認書式。

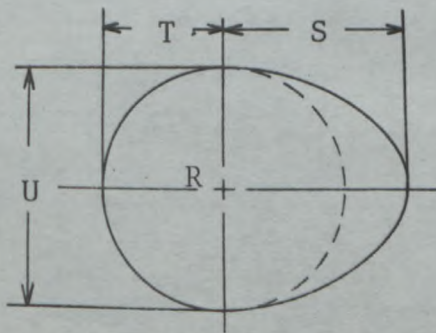
Make 製造会社名 Toyota Motor Co., Ltd
 Model 型式及び通称名 Toyota Celica 1400, TA20-K
 Modification's application starts with serial No. chassis 適用シャーシ型式番号 TA20-000001, TA22-000001
 engine 適用エンジン型式 2T
 Application of this amendment started the 通用年月日 Sep, 1973
 Commercial denomination after application of modifications Toyota Celica 1600, TA22
 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 items have been changed

ENGINE (1600cc DOHC Engine)

255. Cam profile



R = center of camshaft

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.

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難波靖彦

Yasuharu Nanba



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Make Toyota

Model TA20-K

J.A.F.公認番号 T-163V-23

F.I.A.Rec.No 5418

16/12V

INLET

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

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 $16^{\circ} \pm 5^{\circ}$

COMBUSTION CHAMBER

* Volume of one combustion chamber of cylinder head. 63.5 cm³ 3.87 cu.in

** 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. 公認番号

T-163 E-~~28~~ 28

発効年月日

1975年3月31日

F.I.A. Homol. No

5418

A/SE

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 Celica 1400, TA20-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 TA22-000001
engine 通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 Celica 1600, TA22-MQ
The modifications are to be considered as: ~~normal~~ normal evolution of the type
正常進化 / 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 passage(s)

32^φ & 32^φ

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JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F.公認番号

T-163V-29

発効年月日

1975年 4月30日

F.I.A. Homol. No 5418

18/13V

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 Celica 1400, TA20-K
製造会社名 型式及び通称名
Modification's application starts with serial No. chassis 適用シャーシー型式番号 TA22-000001
適用年月日 適用エンジン型式番号 2T
 Application of this amendment started the Feb. 1974
Commercial denomination after application of modifications Toyota Celica
適用年月日
 The modifications are to be considered as: Variant / ~~Konvertierung~~ / ~~変型~~ / ~~変型~~
 Date amendment is valid from 1.7.75 List

Description of amendment 内容

OPTIONAL

Disc wheel

- 50. Type Pressed steel
- 51. Weight (per wheel, without tyre) 8 kg
- 53. Rim diameter 330 mm 13 inches
- 54. Rim width 127 mm 5 inches

Photo Parts No. 42611-14110



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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
発効年月日

T-163V-30
1975年4月30日

F.I.A. Homol. No 5418

19/16V

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

国際スポーツ法典付則J項及びJAF国内競技車両規則に従った公認書式。

Make 製造会社名 Toyota Motor Co., Ltd.
Modification's application starts with serial No. Model 型式及び通称名 Toyota Celica 1400, TA20-K
chassis 適用シャーシ型式番号 TA22-000001
engine 適用エンジン型式番号 2T

Application of this amendment started the 適用年月日 Mar.. 1975

Commercial denomination after application of modifications Toyota Celica 1600

The modifications are to be considered as: Variant / 変型 / 変更

Date amendment is valid from 17.75 List

Description of amendment 内容

OPTIONAL VALID FOR GROUP 2 ONLY

1. BRAKES (front disc brake)

93. Number of cylinders per wheel 4
100. Outside diameter 266 mm
101. Thickness of disc 20 mm

Parts No. Disc 47710-08054 (RH)
47720-08054 (LH)
Calipers Lockheed REGD-1RH/CP2361 (RH)
REGD-2LH/CP2361 (LH)

PHOTO C

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JAF公認印及び署名

難波靖治

Yasuharu Nanba



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Make. Toyota

Model TA20-K

J.A.F.公認番号 T-163V-30

F.I.A. Rec. No. 5418 19/14V

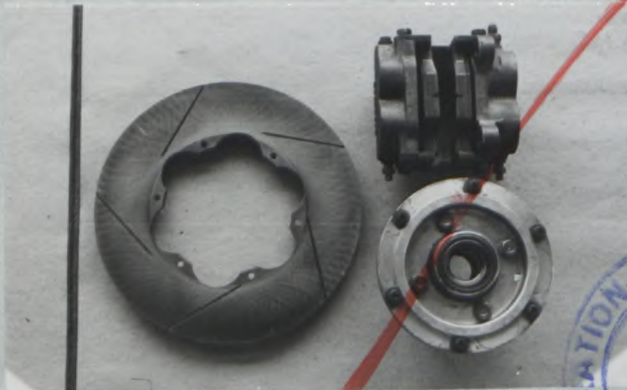
VALID FOR GROUP 2 ONLY

2. BRAKES (rear disc brake)

93. Number of cylinders per wheel	4
100. Outside diameter	266 mm
101. Thickness of disc	20 mm

Parts No.	Disc		47730-08054 (RH)
			47740-08054 (LH)
	Calipers	Lockheed	REGD-1RH/CP2340 (RH)
			REGD-2LH/CP2340 (LH)

PHOTO



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JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F 公認番号 T-163E-26
発効年月日 1974年12月31日

F. I. A. Homol. No 5418

20/6E

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 TA20-000001, TA22-000001
engine 適用エンジン型式 2T
Application of this amendment started the Sep, 1973
通用年月日
Commercial denomination after application of modifications Toyota Celica 1600, TA22
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

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°
188. Valves close at (with tolerance for tappet clearance indicated)
A. B. D. C 89°
tappet clearance 0.29 mm (cold)

EXHAUST

202. Valves open at (with tolerance for tappet clearance indicated)
B. B. D. C 71°
203. Valves close at (with tolerance for tappet clearance indicated)
A. T. D. C 39°
tappet clearance 0.34 mm (cold)

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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-163E-24
発効年月日 1974年12月31日
F.I.A. Homol. No 5418

21/7E

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.
Application of this amendment started the May, 1971
適用年月日
Commercial denomination after application of modifications Toyota Celica 1400, TA20
The modifications are to be considered as: ~~XXXXXX~~ normal evolution of the type
変更 / 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 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°
- 188. Valves close at (with tolerance for tappet clearance indicated) A. B. D. C 71°
tappet clearance 0.20 mm (hot)

EXHAUST

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

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JAF公認印及び署名

難波靖治

Yasuharu Nanba



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JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F 公認番号 T-163E-25
発効年月日 1974年12月31日
F.I.A. Homol. No 5418

22/8E

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 Toyota Motor Co., Ltd
Modification's application starts with serial No. engine 適用エンジン型式 2T
Model Toyota Celica 1400, TA20-K
型式及び通称名 Toyota Celica 1400, TA20-K
chassis 適用シャーシー型式番号 TA22-000001
No. engine 適用エンジン型式 2T
Application of this amendment started the May. 1971
適用年月日 May. 1971
Commercial denomination after application of modifications Toyota Celica 1600, TA22
The modifications are to be considered as: ~~XXXXX~~ / normal evolution of the type
X222X / 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°
- 188. Valves close at (with tolerance for tappet clearance indicated) A. B. D. C 71°
tappet clearance 0.20 mm (hot)

EXHAUST

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



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JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

JAF No. T-163V-34
昭和51年10月31日
F.I.A. Homol. No 5418

23/15v

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Make Toyota Motor Co., Ltd. Model Toyota Celica 1400, TA20-K

Modification's application starts with serial No. chassis 通用シャーシー型式番号 TA20
engine 通用エンジン型式 T, 2T

Application of this amendment started the 1st. Oct. 1976

Commercial denomination after application of modifications Toyota Celica TA20 Series, TA22

The modifications are to be considered as: Variant ~~XXXXXXXXXXXX~~

Date amendment is valid from -1. JAN. 1977 List

Description of amendment

VALID FOR GROUP 2 ONLY

GEAR BOX
96)

	Alternative manual	
	Ratio	Nr teeth
1	2.34	$\frac{33}{23} \times \frac{31}{19}$
2	1.61	$\frac{33}{23} \times \frac{28}{25}$
3	1.20	$\frac{33}{23} \times \frac{25}{30}$
4	1.00	
5	0.93	$\frac{33}{23} \times \frac{22}{34}$
Rev.	3.48	$\frac{33}{23} \times \frac{34}{14}$

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Stamp and signature of the JAF

JAF No. XXXX

難波靖治

Yasuharu Nanba



会社名
Make TOYOTA

型式
Model TA20-K

FIA Rec. No. 5418

23/15V

REINFORCED FRONT LOWER ARM

Photo: Reinforced front lower arm



(Part No. 48068 - TA051 (RH)
48069 - TA051 (LH))

"valable en Groupe 2 uniquement"
"valid for Group 2 only"

FINAL DRIVE

- 101) Type of final drive
- 102) Type of differential
- 103) Number of teeth
- 104) Ratio

- Hypoid gear
- Bevel gear
- 37/8 , 39/8 , 41/8
- 4.63 , 4.88 , 5.13

