



# JAPAN AUTOMOBILE FEDERATION

社団法人・日本自動車連盟

JAF公認番号 T-185

グループ ツーリング・カー

発効年月日

46.12.1

5433

F. I. A. Recognition No.

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 NISSAN MOTOR CO., LTD.  
製造会社名

Serial No of chassis 製造開始シャシー番号 610-000001

engine 製造開始エンジン番号 L16-000001

Recognition is valid from 1/1/72

Cylinder-capacity 総排気量 { Reciprocation 1595 cm<sup>3</sup> 97.3 cu.in.  
レシプロ  
Special cm<sup>3</sup> cu.in.  
特殊

Model 型式及び通称名 610 (DATSUN BLUEBIRD "U" 1600)

Manufacturer NISSAN

Manufacturer NISSAN

List 72/1

The manufacturing of the model described in this recognition form was started on APR. 1971 and the minimum production of 5,000 identical cars, in accordance with the specifications of this form was reached on SEP. 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

Handwritten signature: 渡山博史

Hiroshi Niwayama



Stamp and signature of the F. I. A.

Handwritten signature of the F.I.A. official.

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

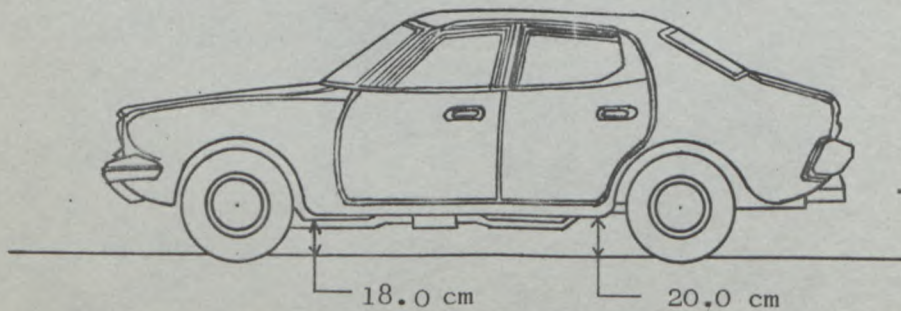
**CAPACITIES AND DIMENSIONS**  
仕様諸元

1. <u>Wheelbase</u> ホイールベース	250	cm	98.4	inches
2. <u>Front track</u> トレッド(前)	129	cm	50.8	inches *
3. <u>Rear track</u> トレッド(後)	130	cm	51.2	inches *
4. Overall length of the car 全長	421.5	cm		inches
5. Overall width of the car 全幅	160.0	cm		inches
6. Overall height of the car 全高	140.5	cm		inches
7. <u>Capacity of fuel tank</u> (reserve included) 燃料タンク容量	14.5	Gallon US	55	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)	920	kg	2,031	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.

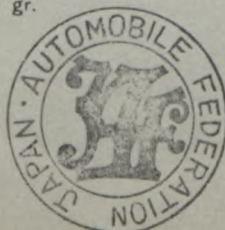


Width of the car measured in the vertical plane passing through the axle of the wheels.

車軸上の車体幅	Front フロント	158.0 cm	Rear リア	160.0cm
---------	---------------	----------	------------	---------

**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 <sup>2</sup>	1 gallon Imp.	-- 4.546 ltrs
1 cubic inch / pouce cube	-- 16.387 cm <sup>3</sup>	1 gallon US	-- 3.785 ltrs
1 pound / livre (lb)	-- 453.593 gr.	1 hundred weight (cwt)	-- 50.802 kg



**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 ~~SEPARATE~~ / 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 4 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  
フロントドアウィンドウの材質
- 30. Material (s) of rear-door windows Glass  
リヤドアウィンドウの材質
- 31. Sliding system of door windows Vertical, Manual  
ドアウィンドウの開閉方式
- 32. Material (s) of rear-quarter light  
リヤクォーターウィンドウの材質

**ACCESSORIES AND UPHOLSTERY**

アクセサリ

- 38. Interior heating : ~~YES~~ - ~~NO~~
- 39. Air-conditioning : ~~YES~~ - no
- 40. Ventilation : yes - ~~NO~~
- 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 :  
14 x 2 kg lbs
- 43. Rear seats, type of seats and upholstery Bench, Vinyl
- 44. Front bumper, material (s) Steel Weight 6.0 kg lbs  
フロントバンパーの材質 重量
- 45. Rear bumper, material (s) Steel Weight 6.0 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) 6.0 kg lbs  
重量
- 52. Method of attachment 4 Nuts  
取付け方法
- 53. Rim diameter 330 mm 13.0 inches  
リム径
- 54. Rim width 101 mm 4.0 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 3.3  
ロックツロロック
- 63. In case of servo-assistance



Make NISSAN

Model 610  
型式

J·A·F 公認番号

F.I.A. Rec. No.

5433

**SUSPENSION**

サスペンション

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

**BRAKES (photographs F and G)**

ブレーキ

- |   |   |           |
|---|---|-----------|
| 90. System<br>作動方式                                      |   | Hydraulic |
| 91. Servo-assistance (if fitted), type<br>サーボシステムの形式    |   |           |
| 92. Number of hydraulic master cylinders<br>マスターシリンダーの数 | 1 |           |

	FRONT フロント		REAR リア	
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	22.2	mm	in.	22.2 mm in.
<b>Drum Brakes</b> ドラムブレーキ				
95. Inside diameter ドラムの内径	228	mm	in.	228 mm in.
96. Length of brake linings ライニングの長さ	219.5	mm	in.	219.5 mm in.
97. Width of brake linings ライニングの幅	40	mm	in.	40 mm in.
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	17,600	mm <sup>2</sup>	sq. in.	17,600 mm <sup>2</sup> sq. in.
<b>Disc brakes</b> ディスクブレーキ				
100. Outside diameter ディスクの外径		mm	in.	mm in.
101. Thickness of disc ディスクの厚さ		mm	in.	mm in.
102. Length of brake linings パッドの長さ		mm	in.	mm in.
103. Width of brake linings パッドの幅		mm	in.	mm in.
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 <sup>2</sup>	sq. in.	mm <sup>2</sup> sq. in.



**ENGINE** (photographs J and K) \*\*

130. Cycle エンジン 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	83.0 mm	134. Stroke ストローク	73.7 mm
			2.90 in.
135. Capacity per cylinder 1シリンダーの排気量		398.75	cm <sup>3</sup>
			24.33 cu. in.
136. Total cylinder-capacity 総排気量		1,595	cm <sup>3</sup>
			97.33 cu. in.
137. Material (s) of cylinder block シリンダーブロックの材質	Cast-iron		
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	40.3	cm <sup>3</sup>	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	38 mm		inches
147. Crankshaft : <del>rolled</del> / stamped クランクシャフト : <del>鍛造</del> / 鍛造		148. Type of crankshaft : integral / XXXXX クランクシャフトの形式 : 一体式 / XX	
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 : <del>dry sump</del> / oil in sump 潤滑方式 : <del>ドライサンプ</del> / ウェットサンプ			
152. Capacity, lubricant 潤滑油量	4.6 ltrs	pts	quarts US
153. Oil cooler : <del>yes</del> / no オイルクーラー : <del>有</del> / 無		154. Method of engine cooling エンジン冷却方式	Water
155. Capacity of cooling system	6.0 ltrs	pints	quarts US
156. Cooling fan (if fitted), dia.	330 mm	inches	
157. Number of blades of cooling fan	4		

**Bearings \*\***  
ベアリング

158. Crankshaft main, type メインベアリングの形式	Plain	Dia. 内径	55 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	50 mm	in.

**Weights \*\***

160. Flywheel (clean)	11.4 kg	lbs	
161. Flywheel with clutch (all turning parts)		15.7 kg	lbs
162. Crankshaft	13.7 kg	lbs	163. Connecting rod
			0.67 kg
164. Piston with rings and pin	0.47 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



**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 Cylinder head  
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 Rocker arm  
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 42 mm 1.65 inches  
バルブの径
182. Max. valve lift 10 mm 0.39 in.  
バルブリフト
183. Number of valve springs 2  
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) 0.25 mm inches
187. Valves open at (with tolerance for tappet clearance indicated) B.T.D.C. 12° ± 7°
188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C. 48° ± 7°
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 33 mm 1.3 inches  
バルブの径
197. Max. valve lift 11 mm 0.42 in.  
バルブリフト
198. Number of valve springs 2  
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の数
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. 54° ± 7°
203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C. 14° ± 7°

**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 NIHON KIKAKI  
製造会社
213. Model 213282  
型式
214. Number of mixture passages per carburettor 2  
キャブレター当りのバレル数
215. Flange hole diameter of exit port(s) of carburettor 28 & 32 mm in.  
キャブレター出口内径
216. Minimum dimensions of mixture pasage(s) with piston at max height from crank  
ベンチュリーの最小寸法 (EXHAUST MANIFOLD) ~~with piston at max height from crank~~  
22 & 29 mm inches

**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



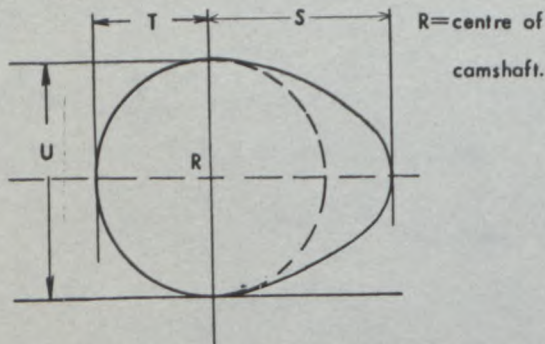
**ENGINE ACCESSORIES**

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

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

250. Max. engine output 100 ps (type of horsepower: JIS ) at 6,000 rpm
251. Maximum rpm 6,500 output at that figure 90 ps
252. Maximum torque 13.5 kg·m at 4,000 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 =	23.5	mm	0.93	inches
T =	16.5	mm	0.65	inches
U =	33.0	mm	1.30	inches

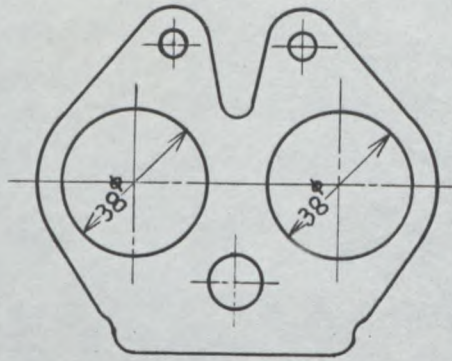
Exhaust cam

排気カム

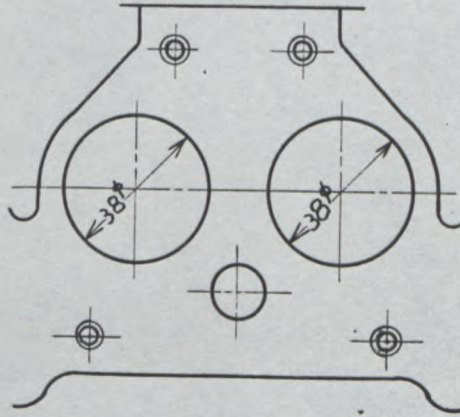
S =	23.9	mm	0.94	inches
T =	16.5	mm	0.65	inches
U =	33.0	mm	1.30	inches



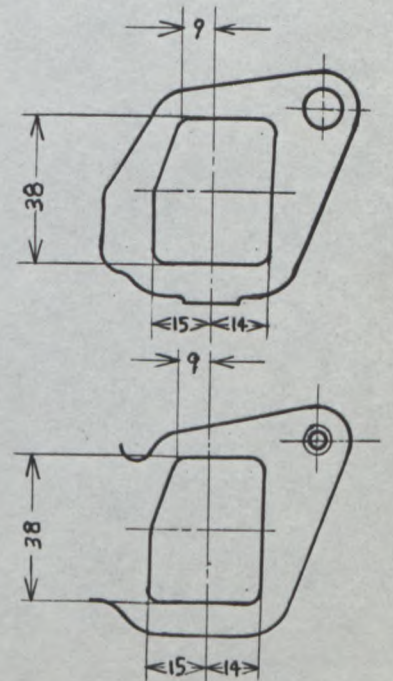
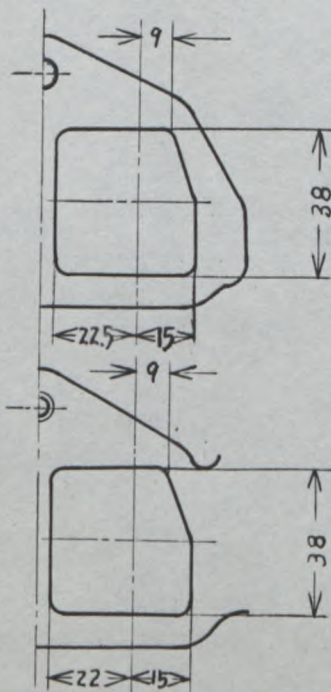
Drawing inlet manifold ports, side of cylinder head housing. scale or dimensions and manufacturing tolerance.



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: ± 1.5



Make NISSAN

Model 610  
型式

J.A.F.公認番号 T-185  
F.I.A. Rec. No. 5433

**DRIVE TRAIN**  
駆動系

**CLUTCH**  
クラッチ

260. Type of clutch 形式 Dry plate  
262. Dia. of clutch plates プレッシュャープレートの外径 202 mm inches  
263. Dia. of linings, inside フェーシングの内径 130 mm in.  
264. Method of operating clutch 作動方式 Hydraulic

261. No. of plates プレッシュャープレートの数 1  
outside 200 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 NISSAN  
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 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	3.66	$\frac{32}{21} \times \frac{36}{15}$			3.38	$\frac{31}{22} \times \frac{36}{15}$		
2	2.18	$\frac{32}{21} \times \frac{30}{21}$			2.01	$\frac{31}{22} \times \frac{30}{21}$		
3	1.42	$\frac{32}{21} \times \frac{27}{29}$			1.31	$\frac{31}{22} \times \frac{27}{29}$		
4	1.00				1.00			
5								
6								
reverse リバース	3.64	$\frac{32}{21} \times \frac{18}{21} \times \frac{39}{14}$			3.37	$\frac{31}{22} \times \frac{18}{21} \times \frac{39}{14}$		

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 3.90 4.11  
Number of teeth 歯数 39/10 37/9



Make NISSAN

Model 610  
型式

J.A.F.公認番号 T-185  
F.I.A. Rec. No. 5433

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

The following items have been added.

Photograph

A, 3/4 View, front



B, 3/4 View, front



C, Interior view



HARDTOP MODEL (K610)

- |                                       |                        |
|---------------------------------------|------------------------|
| 6. Overall height of the car          | 138.5 cm               |
| 9. <u>Weight</u>                      | 930 kg      2,053. lbs |
| 24. Number of doors                   | 2                      |
| 32. Material(s) of rear-quarter light | Glass                  |

Photograph

A, 3/4 View, front



B, 3/4 View, rear



Photograph

写真

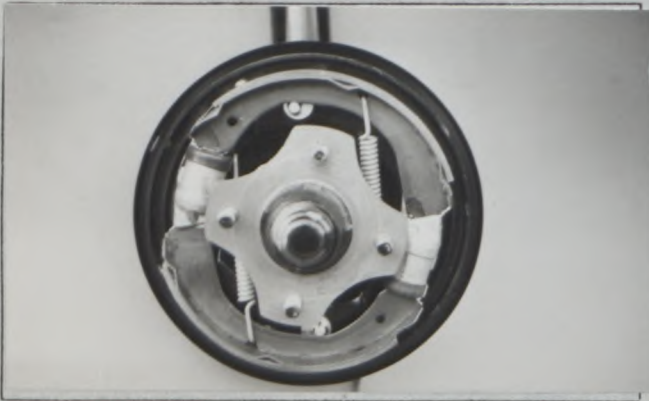
B, 3/4 view of car from rear 全体写真 (斜め後方)



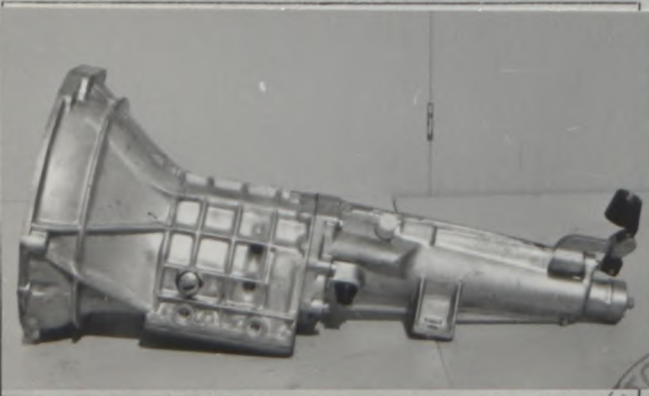
D, Front axle complete, removed from car. Without wheels.  
フロントサスペンション



F, Front brake, drum removed axle with calipers  
フロントブレーキ



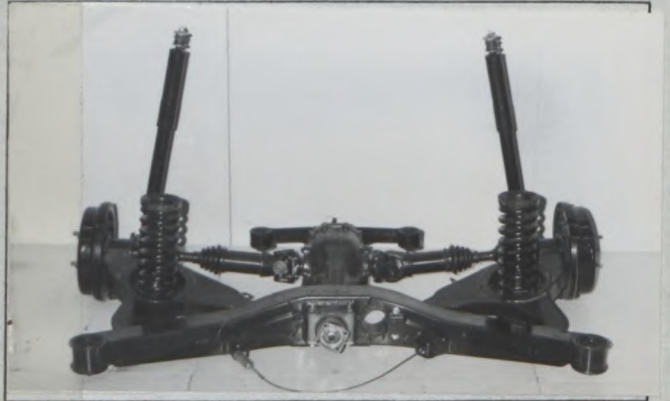
H, Gear-box, view from side トランスミッション



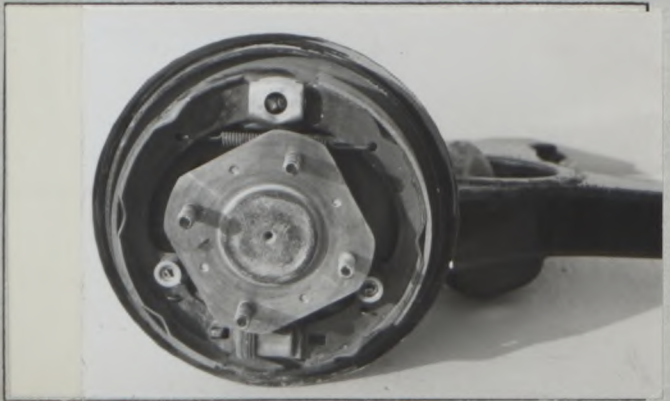
C, Interior view of car through driver's door (open or removed) with dashboard 運転席附近



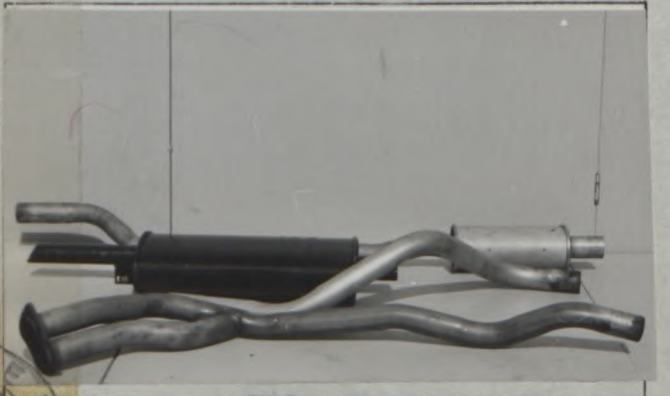
E, Rear axle complete without wheels, removed from car.  
リヤサスペンション



G, Rear brake, drum removed or disc with calipers  
リヤブレーキ



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



Make NISSAN

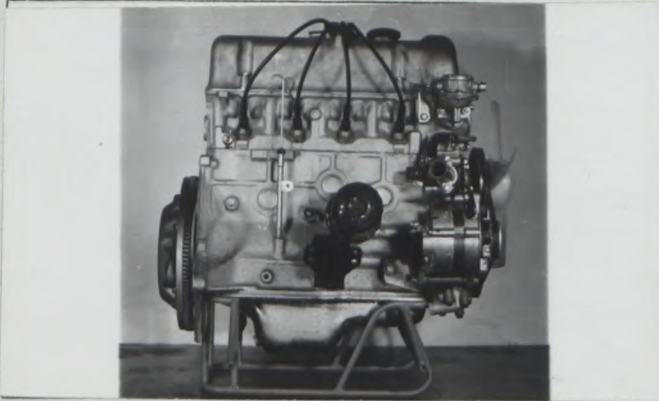
Model 610  
型式

J.A.F公認番号 T-185

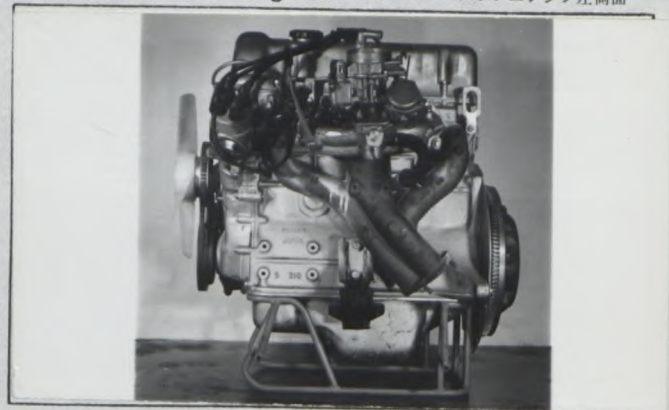
F.I.A. Rec. No. 5433

Photograph

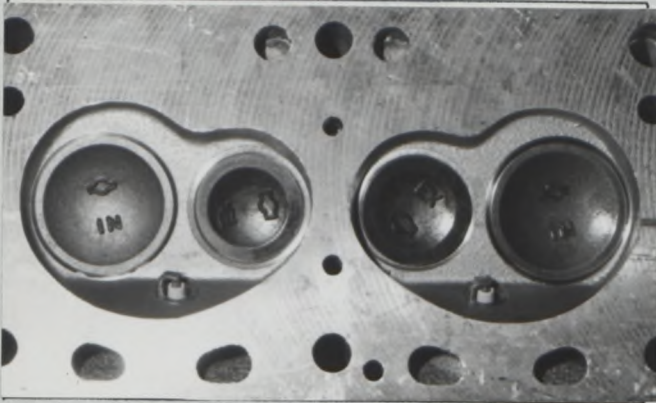
J, Engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box. エンジン右側面  
写真



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



L, Combustion chamber 燃焼室/Rotor housing xxxxxxxx



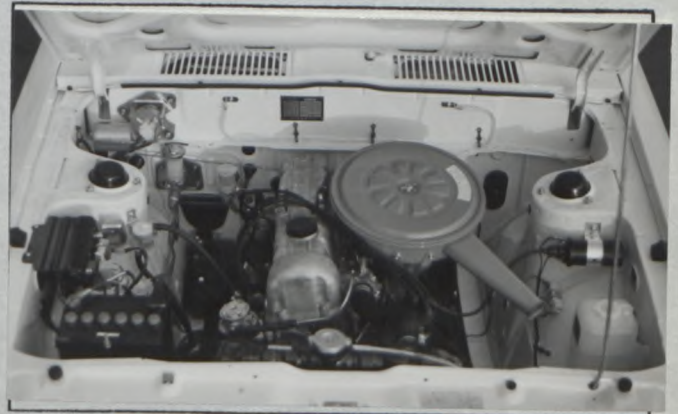
M, Piston crown ピストンクラウン/Rotor front xxxxxx



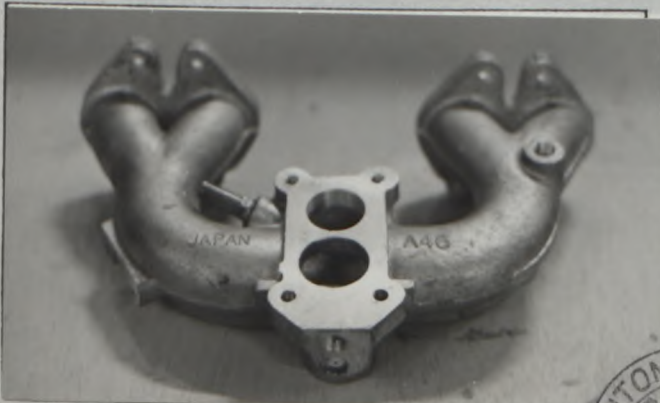
N, Carburettor (view from side of manifold) 気化器



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

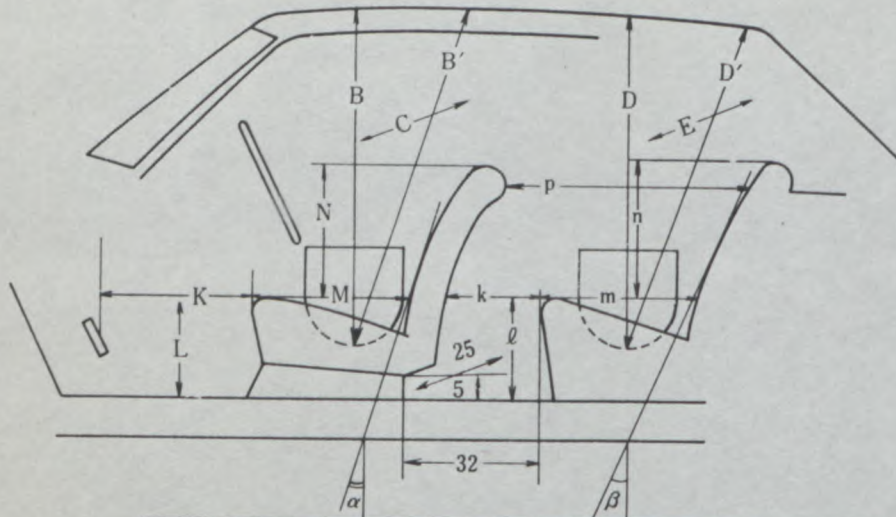


Q, Exhaust manifold 排気マニホールド



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

For four seaters:  
4座席



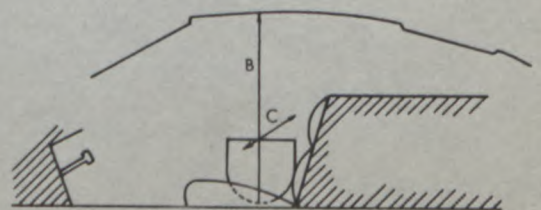
Minimum Dimensions (cm)							
B	B'	$\alpha$	C	D	D'	$\beta$	E
87	93	15°	45	85.5	87.5	17°	53
(85)	(90)			(83.5)	(85.5)		

Minimum Dimensions (cm)										
L	$\ell$	M	m	N	n	k+m	p	k	k+l+m	K+L+M
31	35	46	45.5	46	47	61.5	65	16	96.5	122
0.9L = 27.9		0.85M = 39.1		0.8N = 36.8		0.8(k+m) = 49.2		(15)	(95)	(120)

REMARKS: ( ) = HARDTOP

For two seaters:  
2座席

Minimum Dimensions	
B	C
cm	cm



Make NISSAN

Model 610  
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 <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> 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 NISSAN

Model 610  
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.
偏心率			
408. Capacity per Rotor	cm <sup>3</sup>		cu. in.
1ローター当りの排気量			
409. Total capacity	cm <sup>3</sup>		cu. in.
総排気量			
410. Equivalent total capacity (by App. J Art. 252)	cm <sup>3</sup>		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 <sup>3</sup>		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 **NISSAN**

Model **610**  
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.

mm<sup>2</sup>

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

mm<sup>2</sup>

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)



1/1V

FRONT DISC BRAKE

2. <u>Front track</u>	131 cm	50.6 inches
3. <u>Rear track</u>	132 cm	52.0 inches
51. Weight (per wheel, without tyre)		6.5 kg
54. <u>Rim width</u>	114 mm	4.5 inches
91. Servo-assistance (if fitted), type		vacuum
93. Number of cylinders per wheel		1
94. Bore of wheel cylinder(s)		50.8 mm
100. Outside diameter		232 mm
101. Thickness of disc		10 mm
102. Length of brake linings		86 mm
103. Width of brake linings		40 mm
104. Number of pads per brake		2
105. Total area per brake		6,880 mm <sup>2</sup>

Photograph

F, Front brake disc with caliper



2/25

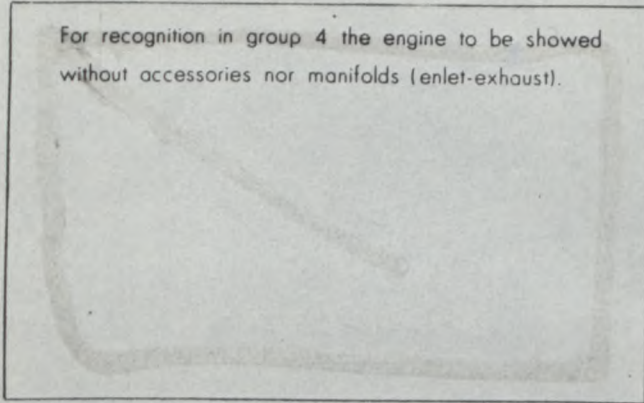
## ENGINE (TWIN CARBURETOR)

142. Compression ratio	9.5	
182. <u>Max. valve lift</u>	11 mm	0.42 inches
187. Valves open at B.T.D.C. $16^{\circ} \pm 7^{\circ}$		
188. Valves close at A.B.D.C. $52^{\circ} \pm 7^{\circ}$		
202. Valves open at B.B.D.C. $54^{\circ} \pm 7^{\circ}$		
203. Valves close at A.T.D.C. $14^{\circ} \pm 7^{\circ}$		
210. Number of carburetors fitted	2	
211. Type	Side-draft	
212. Make	HITACHI	
213. Model	HJL38W	
214. Number of mixture passages per carburetor	1	
215. Flange hole diameter of exit port(s) of carburetor		38 mm
216. Minimum dimensions of mixture passage(s) with piston at max height (example: SU)		29 mm
250. Max engine output	105 ps (type of horsepower: JIS) at 6,200 rpm	
251. Maximum rpm	6,700	output at that figure 95 ps
252. Maximum torque	13.8 kg·m at 4,200 rpm	
253. Maximum speed of the car	165 km/hour	
255. Cam profile		
	<u>Inlet cam</u>	<u>Exhaust cam</u>
	S = 23.9 mm    0.94 inches	S = 23.9 mm    0.94 inches
	T = 16.5 mm    0.65 inches	T = 16.5 mm    0.65 inches
	U = 33.0 mm    1.30 inches	U = 33.0 mm    1.30 inches

2/W

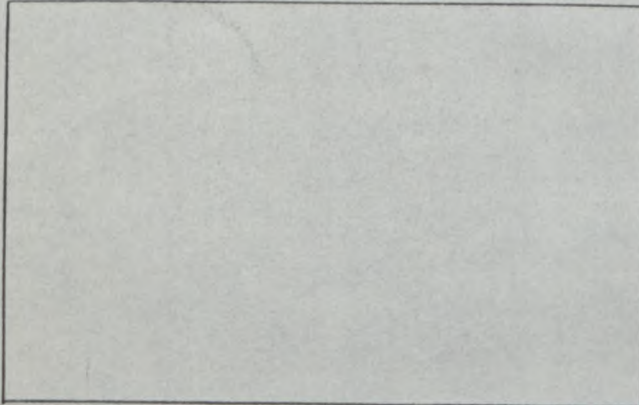
Photograph

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

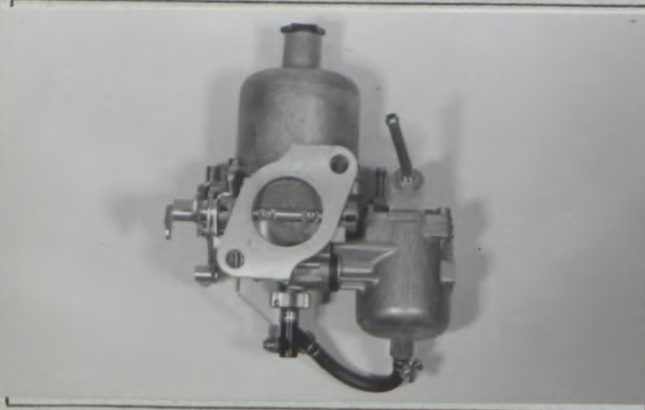


For recognition in group 4 the engine to be showed without accessories nor manifolds (enlet-exhaust).

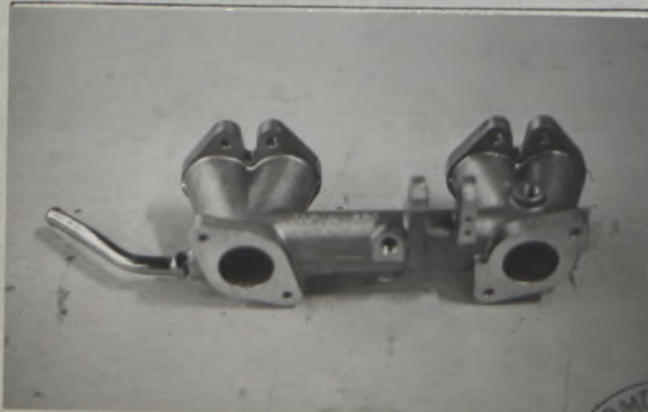
~~b, Carburetor chamber 炭化器 / Rotax housing xxxxxxxx~~



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

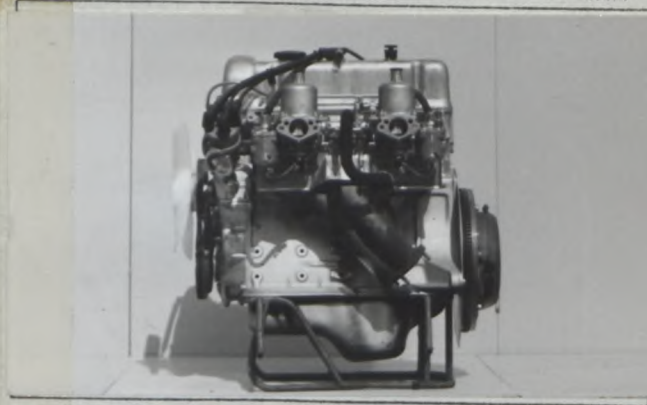


P, Inlet manifold 吸気マニホールド



写真

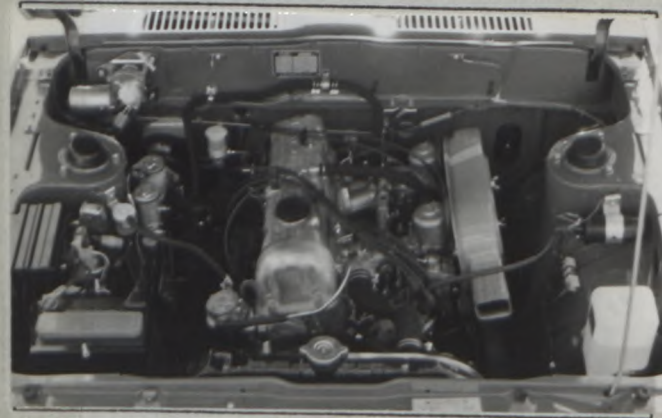
K, Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter. エンジン左側面



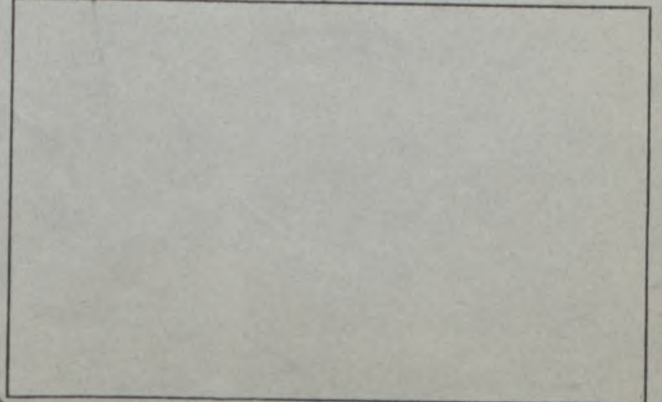
M, Piston crown ピストンクラウン / Rotax tank xxxxxxxx



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



~~x, Exhaust manifold 排気マニホールド xxxxxxxx~~



3/35-400

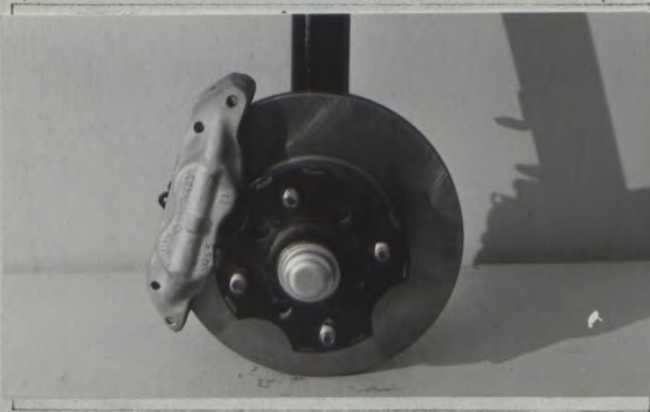
NOT VALID FOR GROUP I ONLY  
FRONT DISC BRAKE

93. Number of cylinders per wheel	4
94. Bore of wheel cylinder(s)	41.3 mm
100. Outside diameter	245 mm
101. Thickness of disc	20 mm
102. Length of brake linings	104 mm
103. Width of brake linings	47 mm
104. Number of pads per brake	2
105. Total area per brake	9,776 mm <sup>2</sup>

Parts No. R/H 41000 - U0620  
L/H 41010 - U0620

Photograph

F, Front brake disc with caliper(s)



12100 - 22010 CONNECTING ROD



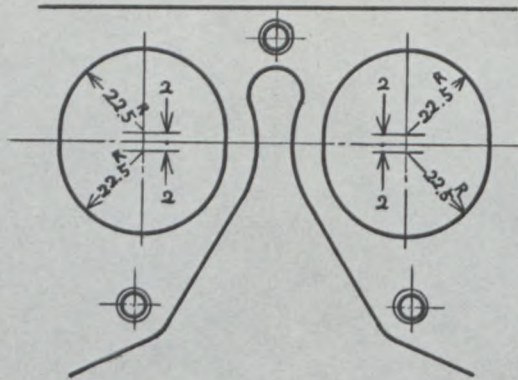
12200 - 22010 CRANKSHAFT  
12310.22010 FLYWHEEL

ENGINE (Attached production report)

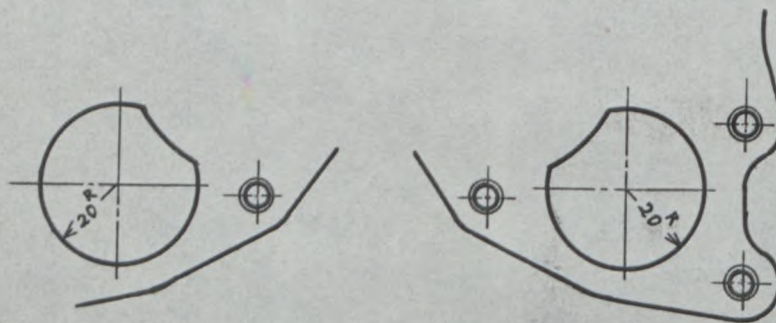
Flywheel	Parts No. 12310 - 22010
Crankshaft	Parts No. 12200 - 22010
Connecting rod	Parts No. 12100 - 22010
Cylinder head	Parts No. 11041 - 22010



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



Drawing of exit to exhaust port of cylinder-head indicate scale or dimensions and manufacturing tolerance.



Unit: mm

Tolerance: ± 1.5

GEAR BOX (Attached production report)

271. No. of gear-box ratios forward

5

272. Synchronized forward ratios

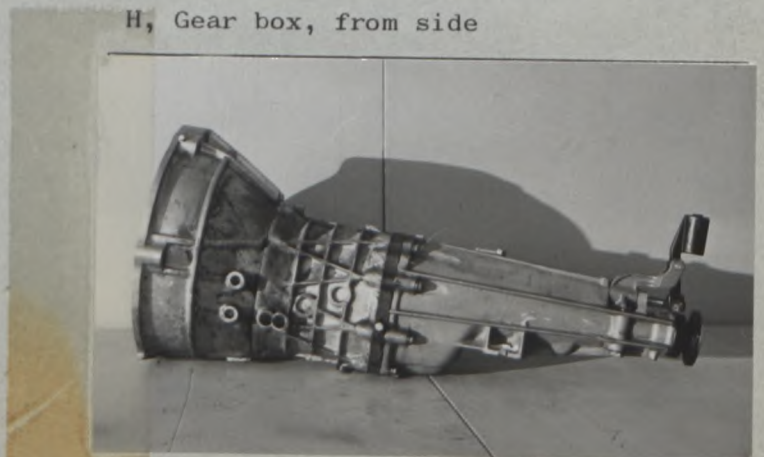
1, 2, 3, 4 & 5.

277.	Manual	
	Ratio	No. teeth
1	2.96	$\frac{28}{23} \times \frac{34}{14}$
2	1.86	$\frac{28}{23} \times \frac{29}{19}$
3	1.31	$\frac{28}{23} \times \frac{29}{19}$
4	1.00	
5	0.85	$\frac{28}{23} \times \frac{21}{30}$
reverse	2.92	$\frac{28}{23} \times \frac{17}{15} \times \frac{36}{17}$

Gear box parts No. 32010 - E4151

Photograph

H, Gear box, from side







JAPAN AUTOMOBILE FEDERATION

日本自動車連盟

J.A.F 公認番号

T-185 E-2

発効年月日

1973年10月31日

F. I. A. Homol. No 5433

2/2E

COMMISSION SPORTIVE  
C1305 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 NISSAN MOTOR CO., LTD.  
製造会社名

Model 610 DATUN BLUEBIRD "U" 1600  
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 610-000001  
engine 適用エンジン型式番号 L16-000001

Application of this amendment started the  
適用年月日

JUL. 1973

Commercial denomination after application of modifications

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

4DOOR SEDAN MODEL

Photograph

A, 3/4 view of car from front



A, 3/4 view of car from front



Stamp and signature of the JAF

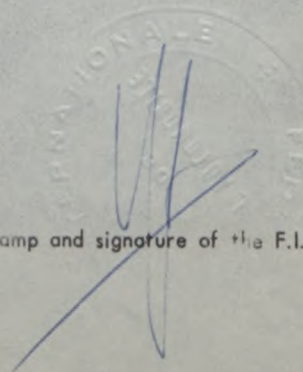
JAF公認印及び署名

難波靖彦

Yasuharu Nanba



Stamp and signature of the F.I.A.



Make NISSAN

Model 610  
型式

J.A.F. 公認番号 T-185E-2

F.I.A. Rec. No. 5433

2/LE

Photograph

B, 3/4 view of car from rear



B, 3/4 view of car from rear



2DOOR HARDTOP MODEL

Photograph

A, 3/4 view of car from front



B, 3/4 view of car from rear



B, 3/4 view of car from rear



Make NISSAN

Model 610  
型式

J.A.F.公認番号 T-185 E-2  
F.I.A. Rec. No. 5433 2/2E

INSTRUMENT

Photograph

C, Interior view



C, Interior view



C, Interior view



C, Interior view

