



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. *1446*

Group *2 - Touring*

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer **NISSAN MOTOR CO., LTD.**

Cylinder-capacity **1,595** cm³ **97.33** cu. in.

Model **DATSUN BLUEBIRD R(L)411**

Serial No of chassis **020101**

Manufacturer **NISSAN**

Serial No of engine **R-010389**

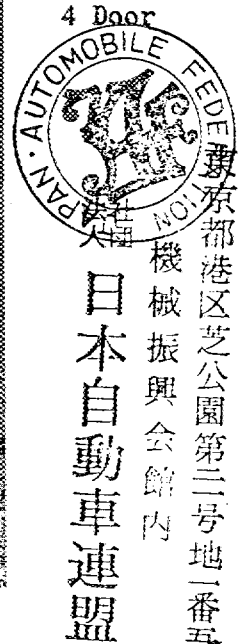
Manufacturer **NISSAN**

Recognition is valid from *1st Nov. 1966*

List *15/1*

The manufacturing of the model described in this recognition form was started on **Apr. 1966** and the minimum production of **1,000** identical cars, in accordance with the specifications of this form was reached on **July 1966**

Photograph A, 3/4 view of car from front



The vehicle described in this form has been subject to the following amendments :

Variants

on	19	rec. No.	List
on	19	rec. No.	List
on	19	rec. No.	List
on	19	rec. No.	List
on	19	rec. No.	List

Normal evolution of the type

on	19	rec. No.	List
on	19	rec. No.	List
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National Sporting Authority

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Page *1*

Make

NISSAN

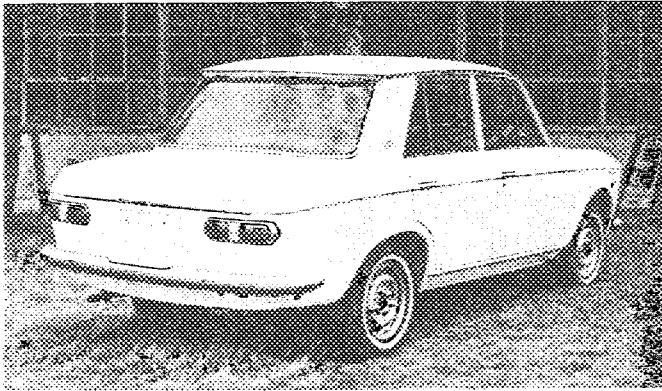
Model

R(L)411

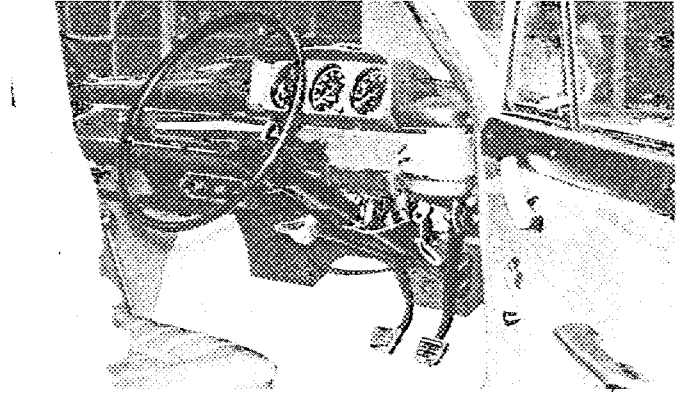
F. I. A. Rec. No.

Photograph

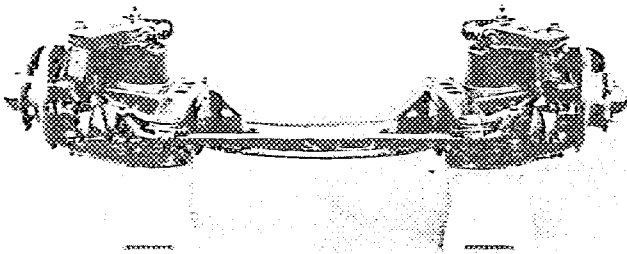
B, 3/4 view of car from rear



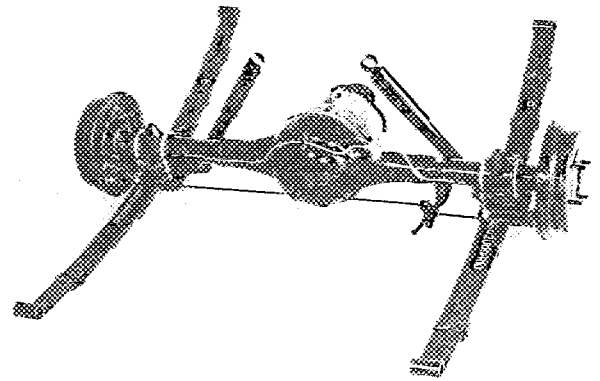
C, interior view of car through driver's door (open or removed)



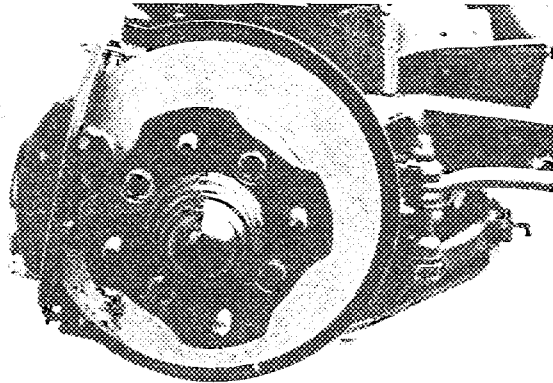
D, front axle complete, removed from car. Without wheels.



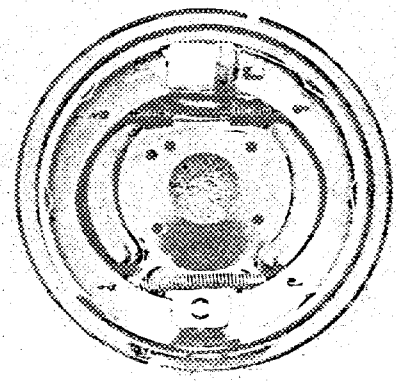
E, Rear axle complete without wheels, removed from car.



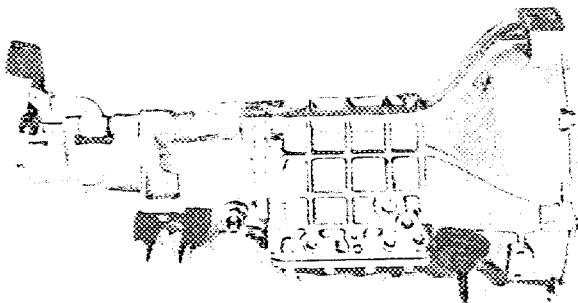
F, front brake, drum removed



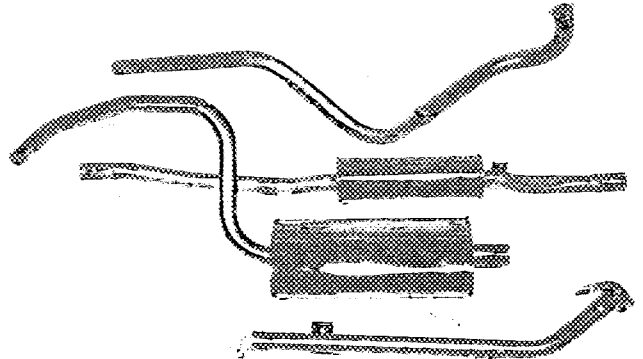
G, rear brake, drum removed



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold.



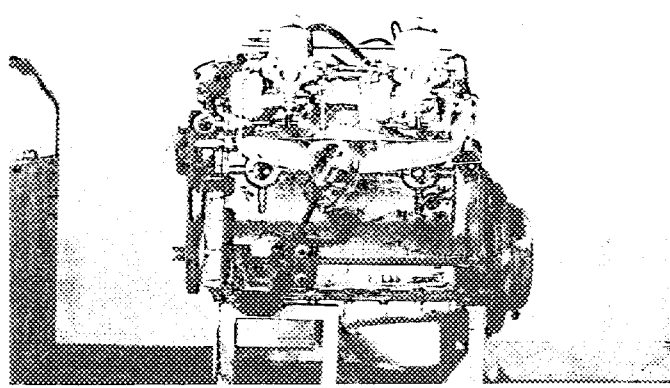
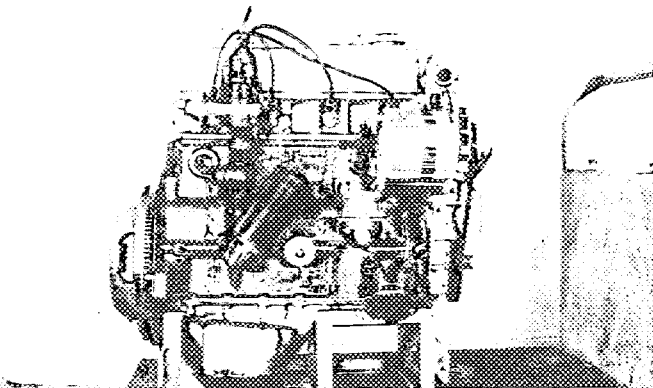
Make **NISSAN**

Model **R(L)411**

F. I. A. Rec. No

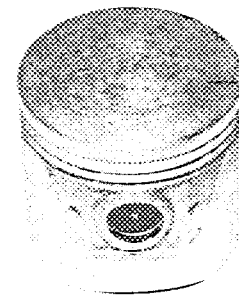
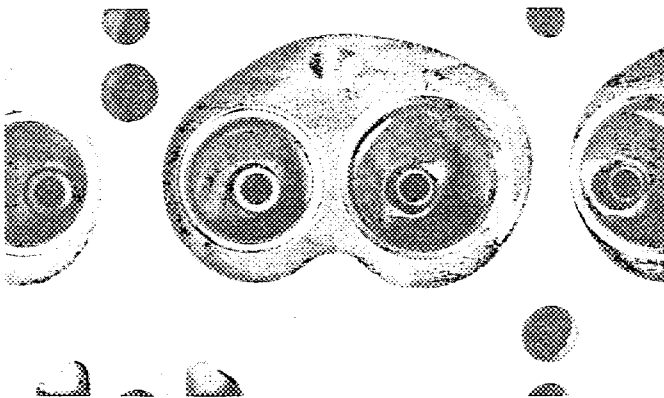
J, engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.

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



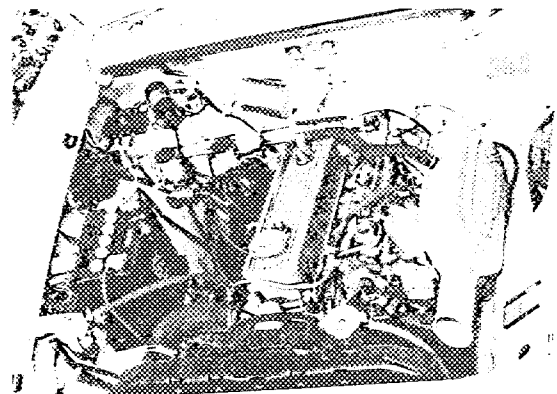
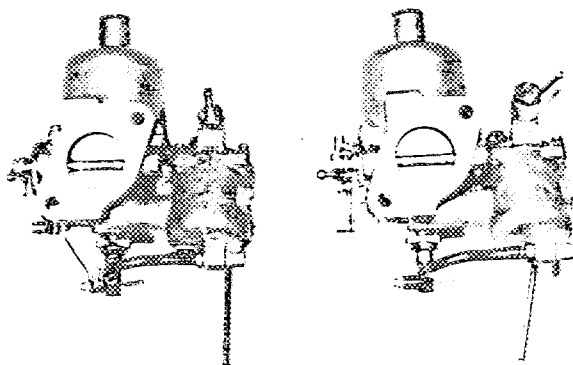
L, combustion chamber

M, piston crown



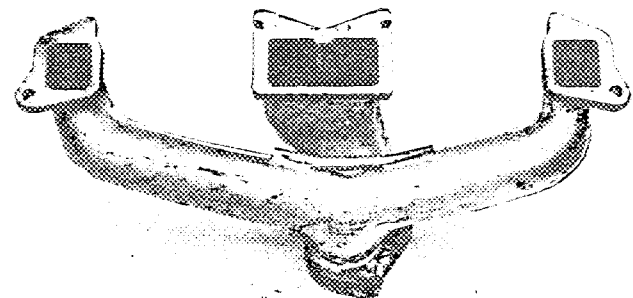
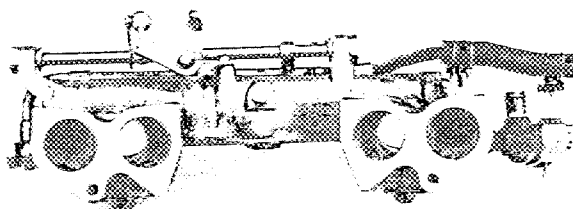
N, Carburettor (view from side of manifold)

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



P, inlet manifold

Q, exhaust manifold



Make

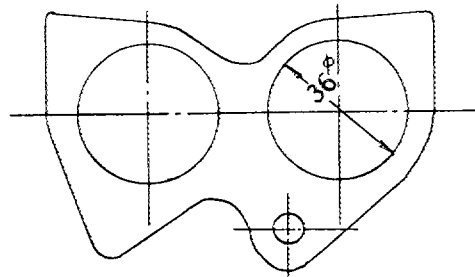
NISSAN

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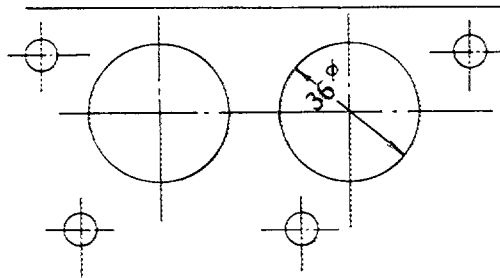
F. I. A. Rec. No

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

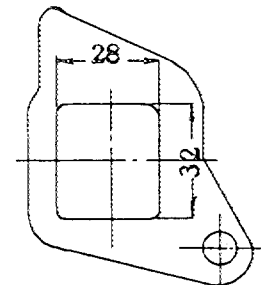
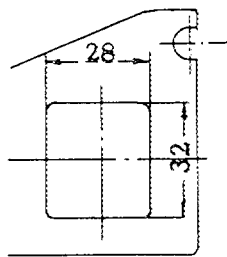


Dimension; mm
Tolerance; ± 1.5

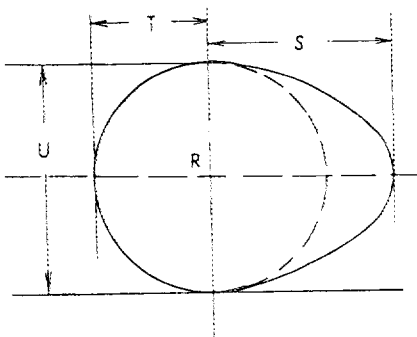
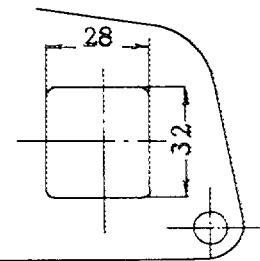
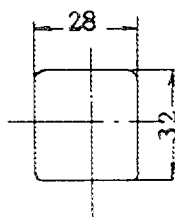
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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



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



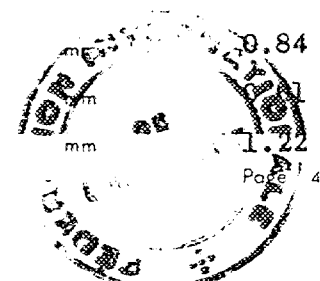
R=centre of camshaft.

Inlet cam

S =	21.5	mm	0.84	inches
T =	15.5	mm	0.61	inches
U =	31	mm	1.22	inches

Exhaust cam

S =	21.5	mm	0.84	inches
T =	15.5	mm	0.61	inches
U =	31	mm	1.22	inches



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

CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2,380	mm	93.7	inches
2. <u>Front track</u>	1,206	mm	47.5	inches *
3. <u>Rear track</u>	1,198	mm	47.2	inches *
4. Overall length of the car		399.5	cm	inches
5. Overall width of the car		149.0	cm	inches
6. Overall height of the car		143.0	cm	inches
7. <u>Capacity of fuel tank</u> (reserve included)			41	litrs
	10.8	Gallon US		Gallon Imp.
8. Seating capacity	5			
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:				
	890	kg	1,962	lbs
				cwt

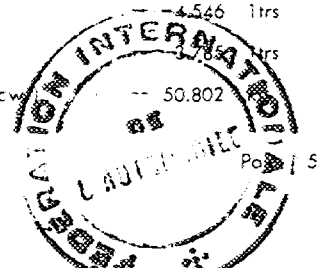
* Differences in track caused by the use of other wheels with different rim widths must be stated when recognition is requested for the wheels concerned.

Specify ground clearance in relation to the track and give drawing of two easily recognizable points at front and rear at which measurements are taken.

These ground clearance dimensions are only for information when checking the track and can in no way affect the eligibility of the car.

CONVERSION TABLE

1 inch / pouce	--	2.54 cm	1 quart US	--	0.9464 litrs
1 foot / pied	--	30.4794 cm	1 pint (pt)	--	0.568 litrs
1 square inch / pouce carré	--	6.452 cm ²	1 gallon imp.	--	4.546 litrs
1 cubic inch / pouce cube	--	16.387 cm ³	1 gallon US	--	3.785 litrs
1 pound / livre (lb)	--	453.593 gr.	1 hundred weight (cwt)	--	50.802



Make

NISSAN

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CHASSIS AND COACHWORK (Photographs A, B and C)

- 20. Chassis/body construction : ~~XXXX~~ / unitary construction
- 21. Unitary construction, material (s) **Steel**
Separate construction
- 22. Material (s) of chassis
- 23. Material (s) of coachwork
- 24. Number of doors **4** Material (s) **Steel**
- 25. Material (s) of bonnet **Steel**
- 26. Material (s) of boot lid **Steel**
- 27. Material (s) of rear-window **Glass**
- 28. Material (s) of windscreen **Glass**
- 29. Material (s) of front-door windows **Glass**
- 30. Material (s) of rear-door windows **Glass**
- 31. Sliding system of door windows **Vertical, manual**
- 32. Material (s) of rear-quarter light **Glass**

ACCESSORIES AND UPHOLSTERY

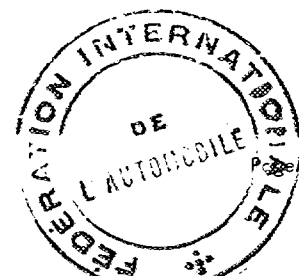
- 38. Interior heating : ~~XXX~~ - no
- 39. Air-conditioning : ~~XXXX~~ - no
- 40. Ventilation : yes - ~~XX~~
- 41. Front seats, type of seats and upholstery **Separate, vinyl**
- 42. Weight of front seat (s), complete with supports and rails, out of the car :
13 x 2 kg lbs
- 43. Rear seats, type of seats and upholstery **Bench, vinyl**
- 44. Front bumper, material (s) **Steel** Weight **7.5** kg lbs
- 45. Rear bumper, material (s) **Steel** Weight **9.5** kg lbs

WHEELS

- 50. Type **Pressed steel**
- 51. Weight (per wheel, without tyre) **6.0** kg lbs
- 52. Method of attachment **Wheel nut (4 nuts)**
- 53. Rim diameter **330** mm **13** inches
- 54. Rim width **102** mm **4** inches
114 mm **4.5** inches

STEERING

- 60. Type **Recirculating ball**
- 61. Servo-assistance : ~~XXX~~ - no
- 62. Number of turns of steering wheel from lock to lock **3.0**
- 63. In case of servo-assistance



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SUSPENSION

- 70. Front suspension (photogr. D), type
- 71. Type of spring
- 72. Stabiliser (if fitted)
- 73. Number of shockabsorbers **2**
- 78. Rear suspension (photogr. E), type
- 79. Type of spring
- 80. Stabiliser (if fitted)
- 81. Number of shockabsorbers **2**

Independent by coil spring and wishbone

**Coil
Torsion bar**

- 74. Type **Hydraulic telescopic**
- Rigid axle case and semi elliptical leaf spring**
- Leaf**

- 82. Type **Hydraulic telescopic**

BRAKES (photographs F and G)

- 90. Method of operation
- 91. Servo-assistance (if fitted), type
- 92. Number of hydraulic master cylinders **1**

Hydraulic

- 93. Number of cylinders per wheel
- 94. Bore of wheel cylinder (s)

FRONT

REAR

2

1

50.8 mm in. 17.5 mm in.

Drum brakes

- 95. Inside diameter
- 96. Length of brake linings
- 97. Width of brake linings
- 98. Number of shoes per brake
- 99. Total area per brake

mm in. 229 mm in.

mm in. 219.5 mm in.

mm in. 40 mm in.

2

mm² sq. in. 18,360 mm² sq. in.

Disc brakes

- 100. Outside diameter
- 101. Thickness of disc
- 102. Length of brake linings
- 103. Width of brake linings
- 104. Number of pads per brake
- 105. Total area per brake

222 mm in. mm in.

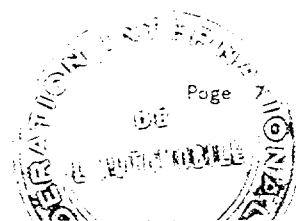
10 mm in. mm in.

86 mm in. mm in.

39.7 mm in. mm in.

2

6,828.4 mm² sq. in. mm² sq. in.



Make **NISSAN**

Model **R(L)411**

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ENGINE (photographs J and K)

130. Cycle **4** 131. Number of cylinders **4**

132. Cylinder arrangement **In line**

133. Bore **87.2** mm **3.43** in. 134. Stroke **66.8** mm **2.63** in.

135. Capacity per cylinder **398.9** cm³ **24.34** cu. in.

136. Total cylinder-capacity **1,595** cm³ **97.33** cu. in.

137. Material (s) of cylinder block **Cast iron**

138. Material (s) of sleeves (if fitted)

139. Cylinder-head, material (s) **Al-cast** Number fitted **1**

140. Number of inlet ports **4** 141. Number of exhaust ports **4**

142. Compression ratio **9.0**

143. Volume of one combustion chamber **51.07** cm³ cu. in.

144. Piston, material **Al-alloy** 145. Number of rings **3**

146. Distance from gudgeon pin centre line to highest point of piston crown
45.1 mm inches

147. Crankshaft : ~~XXXXXX~~ / stamped 148. Type of crankshaft : integral / ~~XXXXXXXXXX~~

149. Number of crankshaft main bearings **3**

150. Material of bearing cap **Cast iron**

151. System of lubrication : ~~XXXXXX~~ / oil in sump

152. Capacity, lubricant **3.3** ltrs pts quarts US

153. Oil cooler : ~~XXXX~~ / no 154. Method of engine cooling **Water**

155. Capacity of cooling system **6.7** ltrs pints quarts US

156. Cooling fan (if fitted), dia. **32** cm inches

157. Number of blades of cooling fan **4**

Bearings

158. Crankshaft main, type **Plain** Dia. **60** mm in.

159. Connecting rod big end, **Plain** Dia. **52** mm in.

Weights

160. Flywheel (clean) **9.6** kg lbs

161. Flywheel with clutch (all turning parts) **14.7** kg lbs

162. Crankshaft **15.5** kg lbs 163. Connecting rod **0.77** kg lbs

164. Piston with rings and pin **0.49** kg lbs



FOUR STROKE ENGINES

170. Number of camshafts **1** 171. Location **Cylinder block**
 172. Type of camshaft drive **Chain**
 173. Type of valve operation **Push rod**

INLET (see page 4) *

180. Material(s) of inlet manifold **Al-cast**
 181. Diameter of valves **42** mm **1.65** inches
 182. Max. valve lift **12** mm **0.47** in. 183. Number of valve springs **2**
 184. Type of spring **Coil** 185. Number of valves per cylinder **1**
 186. Tappet clearance for checking timing (cold) **0.43** mm inches
 187. Valves open at (With tolerance for tappet clearance indicated) **B. T. D. C 20° ±7°**
 188. Valves close at (with tolerance for tappet clearance indicated) **A. B. D. C 56° ±7°**
 189. Air filter, type **Dry**

EXHAUST (see page 4)

195. Material (s) of exhaust manifold **Steel**
 196. Diameter of valves **32** mm **1.26** inches
 197. Max. valve lift **12** mm **0.47** in. 198. Number of valve springs **2**
 199. Type of spring **Coil** 200. Number of valves per cylinder **1**
 201. Tappet clearance for checking timing (cold) **0.43** mm inches
 202. Valves open at (with tolerance for tappet clearance indicated) **B. B. D. C 58° ±7°**
 203. Valves close at (with tolerance for tappet clearance indicated) **A. T. D. C 18° ±7°**

CARBURETION (photograph N)

210. Number of carburetors fitted **2** 211. Type **Side draft**
 212. Make **HITACHI** 213. Model **HJB-38W-3**
 214. Number of mixture passages per carburetor **1**
 215. Flange hold diameter of exit port(s) of carburettor **38** mm in.
 216. ~~Minimum diameter of exit~~ / minimum diam. with piston at maximum height **38** mm inches

INJECTION (if fitted)

220. Make of pump 221. Number of plungers
 222. Model or type of pump 223. Total number of injectors
 224. Location of injectors
 225. Minimum diameter of inlet pipe mm inches

*) for additional information concerning two-stroke engines and super-charged engines see page 13.

Japan Automobile Federation
 Chairman of Technical Sub-Commission

Kazunari Komotori

 Kazunari Komotori



Make **NISSAN**

Model **R(L)411**

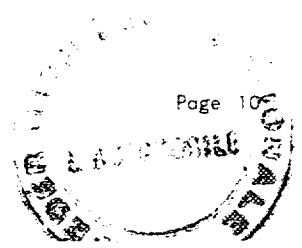
F. I. A. Rec. No.

ENGINE ACCESSORIES

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

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

250. Max. engine output	90 PS	(type of horsepower: JIS)	at	6,000	rpm
251. Maximum rpm	6,400	output at that figure		89 PS	
252. Maximum torque	13.5 kg-m	at	4,000 rpm		
253. Maximum speed of the car	160	km/hour			miles / hour



Make **NISSAN**

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DRIVE TRAIN

CLUTCH

260. Type of clutch **Dry single plate** 261. No. of plates **1**

262. Dia. of clutch plates **20.2** cm inches

263. Dia. of linings, inside **13.0** cm in. outside **20** cm in.

264. Method of operating clutch **Hydraulic**

GEAR BOX (photograph H)

270. Manual type, make **NISSAN**

271. No. of gear-box ratios forward **4** 272. Synchronized forward ratios **1, 2, 3, 4**

273. Location of gear-shift **Floor**

274. Automatic, make **BORG WARNER** type **BW-35**

275. No. of forward ratios **3** 276. Location of gear-shift **Steering column**

277.	Manual		Automatic			Alternative manual/ automatic		Ratio	No. teeth
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth			
1	3.657	$\frac{32}{21} \times \frac{36}{15}$	2.393	$\frac{67}{17} \times \frac{17}{16} \times \frac{16}{28}$	3.382	$\frac{31}{22} \times \frac{36}{15}$			
2	2.177	$\frac{32}{21} \times \frac{30}{21}$	1.450	$(\frac{32}{16} \times \frac{16}{17} \times \frac{17}{28} + 1) \times (\frac{67}{32+67})$	2.013	$\frac{31}{22} \times \frac{30}{21}$			
3	1.419	$\frac{32}{21} \times \frac{27}{29}$	1.000		1.312	$\frac{31}{22} \times \frac{27}{29}$			
4	1.000				1.000				
5									
6									
reverse	3.638	$\frac{32}{21} \times \frac{18}{21} \times \frac{39}{14}$	2.094	$\frac{67}{17} \times \frac{17}{32}$	3.364	$\frac{31}{22} \times \frac{18}{21} \times \frac{39}{14}$			

278. Overdrive, type

279. Forward gears on which overdrive can be selected

280. Overdrive ratio

FINAL DRIVE

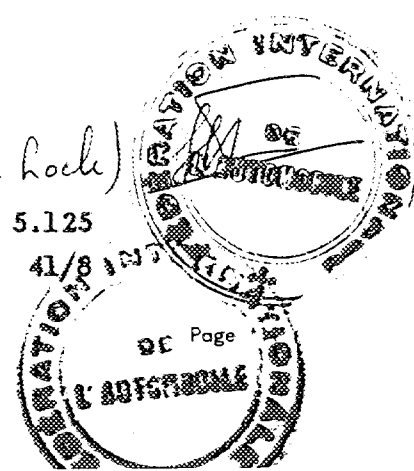
290. Type of final drive **Hypoid gear**

291. Type of differential **Bevel gear**

292. Type of limited slip differential (if fitted) **friction (Power lock)**

293. Final drive ratio **3.889 4.111 4.375 4.625 4.875 5.125**

Number of teeth **39/9 37/9 35/8 37/8 39/8 41/8**



Make

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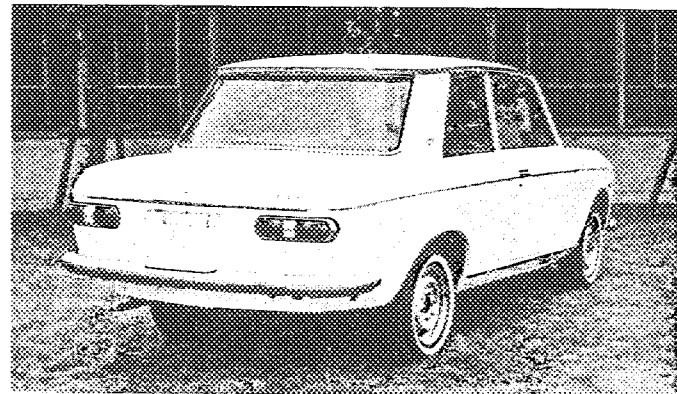
F. I. A. Rec. No.

IMPORTANT- The conformity of the car with the following items of the present recognition form is to be disregarded during the scrutineering, when the vehicle has been entered in group 2 (Touring cars) or 3 (Grand Touring cars) : 41, 72, 80, 91, 142, 143, 144, 145, 146, 153, 156, 157, 160, 161, 162, 163, 164, 182, 184, 186, 187, 188, 189, 199, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 250, 251, 252, 253, and photographs I, M and N.

During the scrutineering of cars entered in group 4 (Sportscars) only the following items of the present recognition form are to be taken into consideration : 1, 2, 3, 9, 20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 147, 148, 149, 150, 158, 159, 170, 171, 172, 173, 185, 200, 270, 271, 274, 275, 290, 291, 292 and photographs A, B, D, E, F, G, H, J, K, and O.

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

Two door sedan

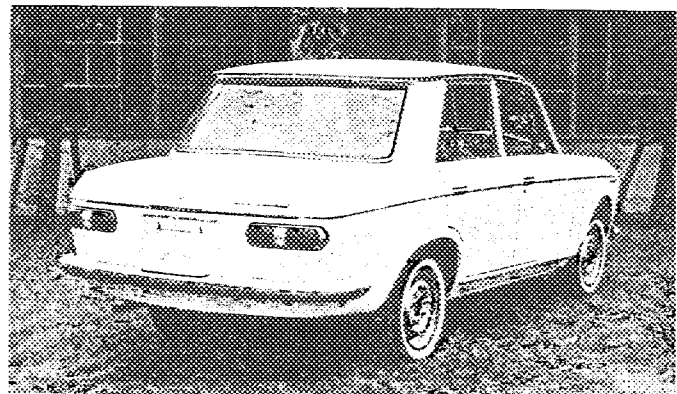
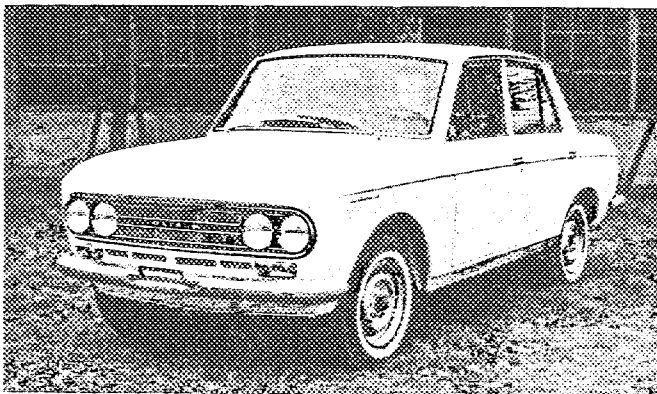


The model produced on the same line as four door sedan

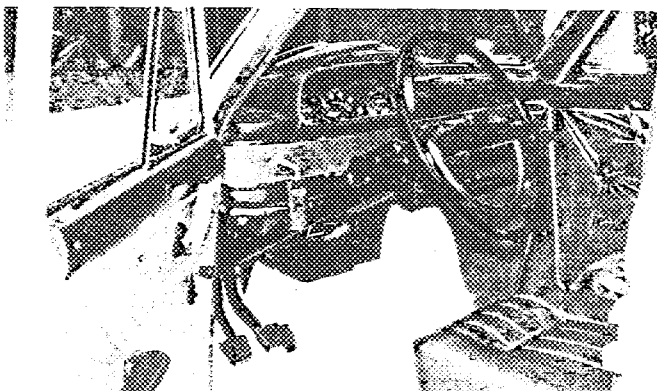
Export model

This model is different from domestic model as for following items

1. Radiator grill and emblem



2. Meter combined



Make

NISSAN

Model

R(L)411

F.I.A. Rec. No.

TWO STROKE ENGINES

- 300. System of cylinder scavenging
- 301. Type of lubrication
- 302. Inlet ports, length measured around cylinder wall mm inches
- 303. Height inlet port mm in. 304. Area mm² sq. in.
- 305. Exhaust ports, length measured around cylinder wall mm inches
- 306. Height exhaust port mm in. 307. Area mm² sq. in.
- 308. Transfer port, length measured around cylinder wall mm inches
- 309. Height transfer port mm in. 310. Area mm² sq. in.
- 311. Piston ports, length measured around piston mm inches
- 312. Height piston port mm in. 313. Area mm² sq. in.
- 314. Method of precompression
- 315. Precompression cyl.: yes/no
- 316. Bore mm inches 317. Stroke mm inches
- 318. Distance from top of cyl. block to highest point of exhaust port : mm inches
- 319. Distance from top of cyl. block to lowest point of inlet port : mm inches
- 320. Distance from top of cyl. block to highest point of transfer port : mm inches
- 321. Drawing of cylinder ports.

330. Supercharging--state full details hereafter :

JAPAN AUTOMOBILE FEDERATION

Chairman

of Technical Subcommittee



Osamu Hirao