



JAPAN AUTOMOBILE FEDERATION

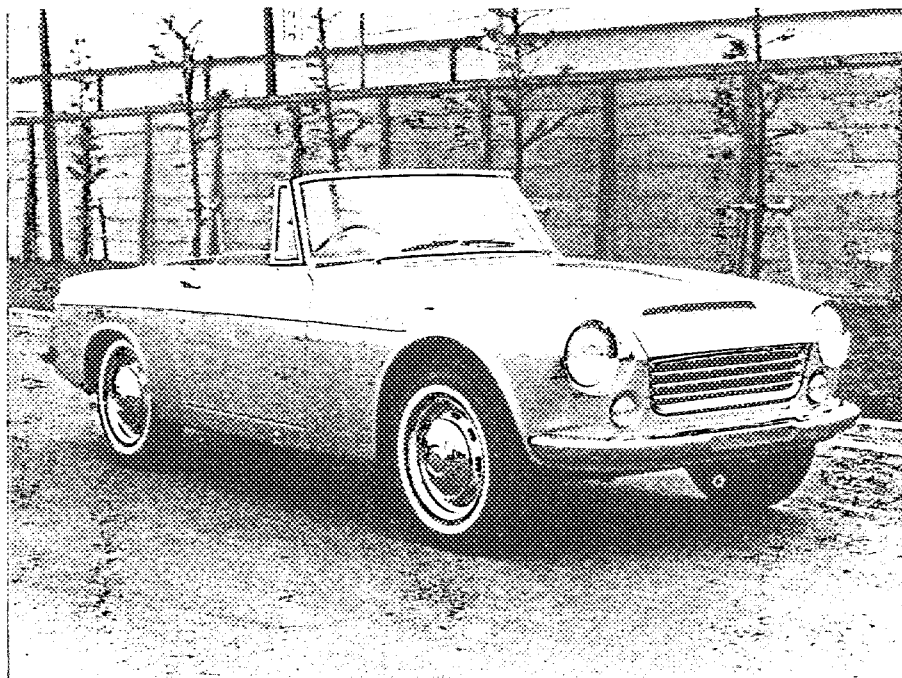
F. I. A. Recognition No. 531
Group 3; GROUND TOURING

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. inches
 Model **SP(L)311**
 Serial No of chassis **SP(L)311-00001** Manufacturer **NISSAN**
 engine **R-00101** Manufacturer **NISSAN**
 Recognition is valid from **1st February 1966** List **14/2**
 The manufacturing of the model described in this recognition form was started on **DEC.** 1964 and the minimum production of **500** identical cars, in accordance with the specifications of this form was reached on **MAR.** 1965

Photograph A, 3/4 view of car from front



東京都港区芝公園第三号地一番五
 機械振興会館内
 法人 日本自動車連盟

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
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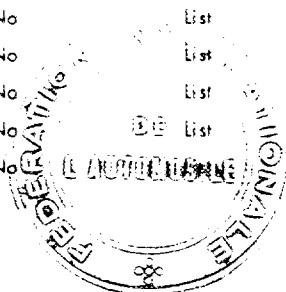
Stamp and signature of the
National Sporting Authority

Hidetaro Fujita
Chairman of C.S.



Stamp and signature of the F. I. A.

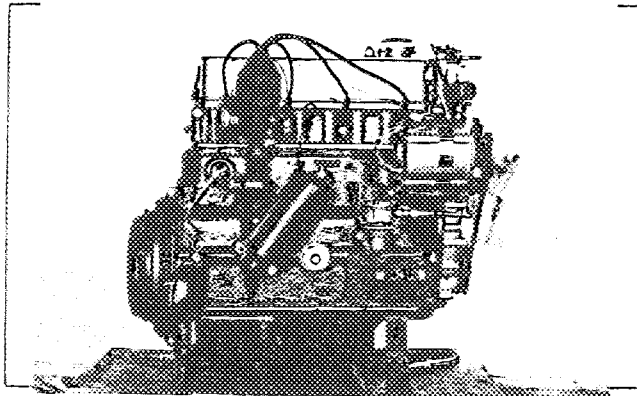
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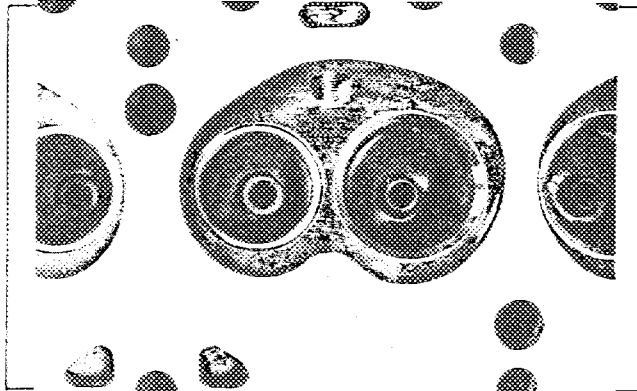
Make

NISSAN

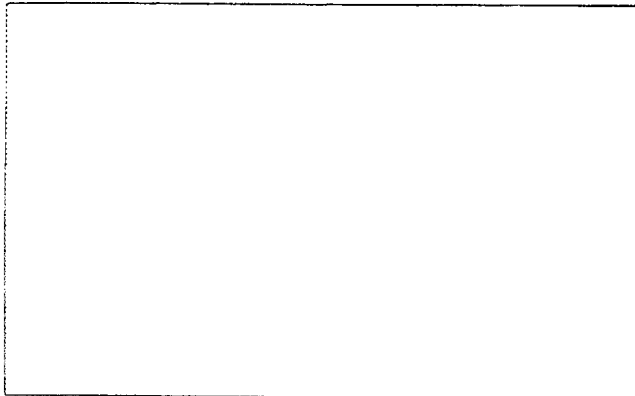
J engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.



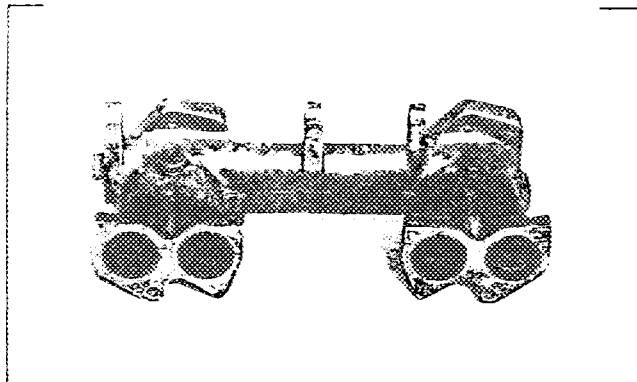
L combustion chamber



N Carburettor (view from side of manifold)



P inlet manifold



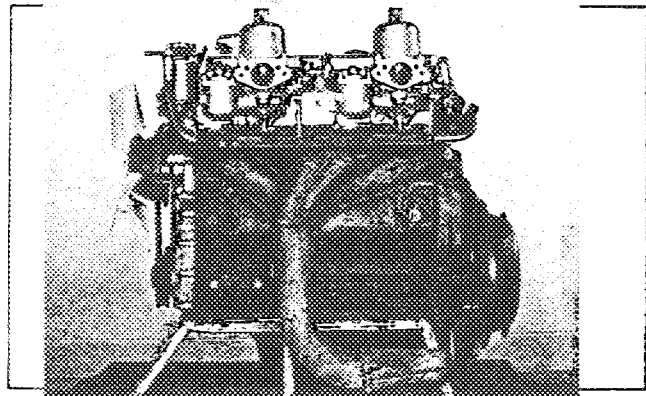
Photograph

Model

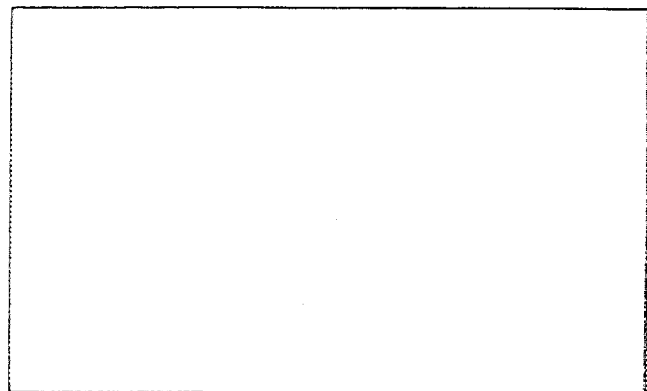
SP(L)311

F. I. A. Rec. No

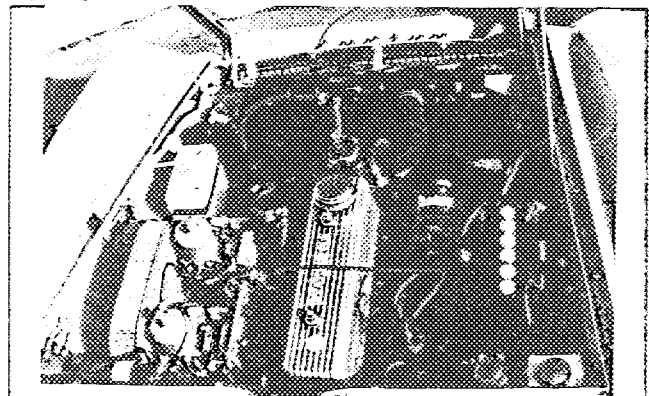
K Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



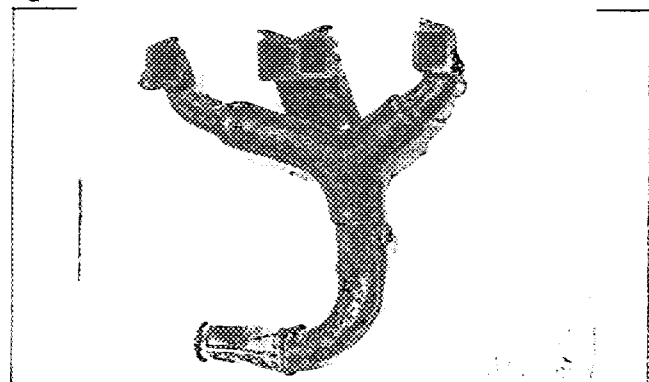
M piston crown



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



Q exhaust manifold

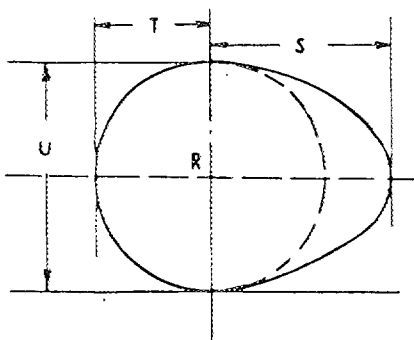


Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.

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

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

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



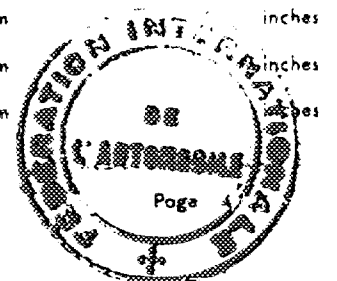
R = centre of camshaft.

Inlet cam

S = mm inches
 T = mm inches
 U = mm inches

Exhaust cam

S = mm inches
 T = mm inches
 U = mm inches



Make

NISSAN

Model

SP(L)311

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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 here-after.

CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2,280	mm	89.76	inches
2. <u>Front track</u>	1,270	mm	50.00	inches *
3. <u>Rear track</u>	1,198	mm	46.85	inches *
4. Overall length of the car		391.0	cm	inches
5. Overall width of the car		149.5	cm	inches
6. Overall height of the car		131.5	cm	inches
7. <u>Capacity of fuel tank</u> (reserve included)				43 ltrs
	11.4	Gallon US		Gallon Imp.
8. Seating capacity	2			
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	1962	lbs cwt

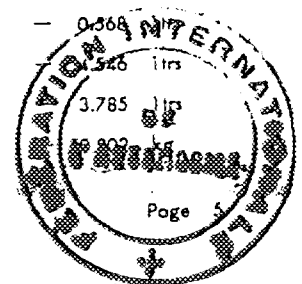
*) Differences in track caused by the use of other wheels with different rim widths must be stated when recognition is requested for the wheels concerned.

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 ltrs
1 foot / pied	—	30.4794 cm	1 pint (pt)	—	0.568 ltrs
1 square inch / pouce carré	—	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)	—	907.185 kg



Make

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SUSPENSION

70. Front suspension (photogr. D), type INDEPENDENT BY COIL SPRING AND WISHBONE
 71. Type of spring COIL
 72. Stabiliser (if fitted)
 73. Number of shockabsorbers 2 74. Type HYDRAULIC TELESCOPIC
 78. Rear suspension (photogr. E), type RIGID AXLE CASE AND SEMI ELLIPTICAL LEAF SPRING
 79. Type of spring LEAF
 80. Stabiliser (if fitted)
 81. Number of shockabsorbers 2 82. Type HYDRAULIC TELESCOPIC

BRAKES (photographs F and G)

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

	FRONT			REAR		
93. Number of cylinders per wheel	2			1		
94. Bore of wheel cylinder (s)	54.0	mm	in.	20.7	mm	in.
Drum brakes						
95. Inside diameter		mm	in.	229	mm	in.
96. Length of brake linings		mm	in.	215	mm	in.
97. Width of brake linings		mm	in.	40	mm	in.
98. Number of shoes per brake				2		
99. Total area per brake		mm ²	sq. in.	17200	mm ²	sq. in.
Disc brakes						
100. Outside diameter	284	mm	in.		mm	in.
101. Thickness of disc	10.5	mm	in.		mm	in.
102. Length of brake linings	54.0	mm	in.		mm	in.
103. Width of brake linings	47.5	mm	in.		mm	in.
104. Number of pads per brake	2					
105. Total area per brake	5130	mm ²	sq. in.		mm ²	sq. in.



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) CAST IRON Number fitted 1
- 140. Number of inlet ports 4
- 141. Number of exhaust ports 4
- 142. Compression ratio
- 143. Volume of one combustion chamber cm³ cu. in.
- 144. Piston, material
- 145. Number of rings
- 146. Distance from gudgeon pin centre line to highest point of piston crown
mm inches
- 147. Crankshaft : ~~cast~~ / stamped
- 148. Type of crankshaft : integral / ~~cast~~
- 149. Number of crankshaft main bearings 3
- 150. Material of bearing cap STEEL
- 151. System of lubrication : ~~dry sump~~ / oil in sump
- 152. Capacity, lubricant 4.1 ltrs pts quarts US
- 153. Oil cooler : yes / no
- 154. Method of engine cooling WATER
- 155. Capacity of cooling system 8 ltrs pints quarts US
- 156. Cooling (if fitted), dia. cm inches
- 157. Number of blades of cooling fan

Bearings

- 158. Crankshaft main, type (SLEEVE, TWO HALVES) PLANE Dia. 60.04 mm in.
- 159. Connecting rod big end, type (SLEEVE, TWO HALVES) PLANE Dia. 52.06 mm in.

Weights

- 160. Flywheel (clean) kg lbs
- 161. Flywheel with clutch (all tuning parts) kg lbs
- 162. Crankshaft kg lbs
- 163. Connecting rod lbs kg lbs
- 164. Piston with rings and pin lbs



Make

NISSAN

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F. I. A. Rec. No

FOUR STROKE ENGINES

170. Number of camshafts 1 171. Location IN CYLINDER
 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 mm 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) mm inches
 187. Valves open at (With tolerance for tappet clearance indicated)
 188. Valves close at (with tolerance for tappet clearance indicated)
 189. Air filter, type

EXHAUST (see page 4)

195. Material (s) of exhaust manifold STEEL
 196. Diameter of valves 32 mm 1.26 inches
 197. Max. valve lift 11.34 mm 0.45 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) mm inches
 202. Valves open at (with tolerance for tappet clearance indicated)
 203. Valves close at (with tolerance for tappet clearance indicated)

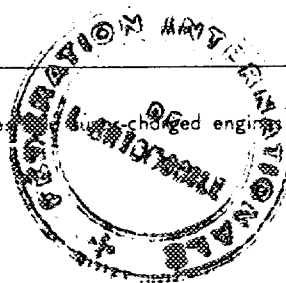
CARBURETION (photograph N)

210. Number of carburetors fitted 2 211. Type SIDE DRAFT
 212. Make 213. Model
 214. Number of mixture passages per carburetor 1
 215. Flange hold diameter of exit port(s) of carburetor mm in.
 216. Minimum diameter of venturi / minimum diam. with piston at maximum height 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 inches

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



Make

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ENGINE ACCESSORIES

230. Fuel pump : mechanical and / or electric	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: dynamo/alternator-number fitted	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	(type of horsepower:) at	rpm
251. Maximum rpm	output at that figure	
252. Maximum torque	at rpm	
253. Maximum speed of the car	km/hour	miles / hour



Make NISSAN

Model SP(L)311

F. I. A. Rec. No

DRIVE TRAIN

CLUTCH

- 260. Type of clutch DRY SINGLE PLATE FRICTION CLUTCH 261. No. of plates 1
- 262. Dia. of clutch plates 20.2 cm inches
- 263. Dia. of linings, inside 13.0 cm in. outside 20.0 cm in.
- 264. Method of operating clutch HYDRAULIC

GEAR BOX (photograph H)

Manual type, make:

- 270. Method of operation NISSAN
- 271. No. of gear-box ratios forward 4 272. Synchronized forward ratios 4 (FULL SYNCHRO)
- 273. Location of gear-shift FLOOR
- 274. Automatic, make type
- 275. No. of forward ratios 276. Location of gear-shift

277.	Manual		Automatic		Alternative manual/ automatic	
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	3.382	$\frac{31}{22} \times \frac{36}{15}$			2.678	$\frac{28}{23} \times \frac{33}{15}$
2	2.013	$\frac{31}{22} \times \frac{30}{21}$			1.704	$\frac{28}{23} \times \frac{28}{20}$
3	1.312	$\frac{31}{22} \times \frac{27}{29}$			1.262	$\frac{28}{23} \times \frac{28}{27}$
4	1.000				1.000	
5					0.852	$\frac{28}{23} \times \frac{21}{30}$
6						
reverse	3.364	$\frac{31}{22} \times \frac{18}{21} \times \frac{39}{14}$			2.922	$\frac{28}{23} \times \frac{17}{15} \times \frac{36}{17}$

- 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) MECHANICAL
- 293. Final drive ratio 4.375 or 4.111
- Number of teeth $\frac{35}{8}$ $\frac{37}{9}$



Make

NISSAN

Model

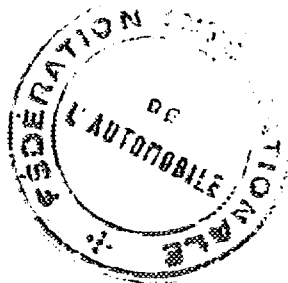
SP(L)311

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, 162, 186, 187, 188, 189, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 236, 250, 251, 252, 253, 255 page 4. and photographs I, M and N,

During the scrutineering of 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 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	mm ²	sq. in.
305. Exhaust ports, length measured around cylinder wall			mm	inches
306. Height exhaust port	mm	in. 307. Area	mm ²	sq. in.
308. Transfer port, length measured around cylinder wall			mm	inches
309. Height transfer port	mm	in. 310. Area	mm ²	sq. in.
311. Piston ports, length measured around piston			mm	inches
312. Height piston port	mm	in. 313. Area	mm ²	sq. in.
314. Method of precompression		315. Precompression cyl.:	yes/no	
316. Bore	mm	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. <u>Drawing of cylinder ports.</u>				

330. Supercharging—state full details hereafter :

JAPAN AUTOMOBILE FEDERATION

Chairman

of Technical Subcommission



Osamu Hirao



JAPAN AUTOMOBILE FEDERATION F.I.A. Homol. No

531 A/V

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Amendment to Form of Recognition in accordance with the International Sporting Code.

Make NISSAN MOTOR CO., LTD. Model SP311
Modification's application starts with serial No. chassis SP(L)311-00001 engine R-00101
Application of this amendment started the Dec. 1964
Commercial denomination after application of modifications June 1965
The modifications are to be considered as: Variant / non-production of type
Date amendment is valid from 1st May '66 list 14/4

Description of amendment The following items have been supplemented.

- Item 54 Rim width 127 mm 5 inch
Item 277 gear ratio

Table with 5 rows and 4 columns: Gear (1-5, Reverse), Ratio, No. teeth (split into two columns), and Manual Ratio/No. teeth. Includes fractions like 3.2/2.1 x 3.6/1.5.

Item 293 final drive ratio
Ratio 4.889 4.625 4.875 5.125
Number of teeth 39/9 37/8 39/8 41/8

Stamp and signature of National Sporting Authority

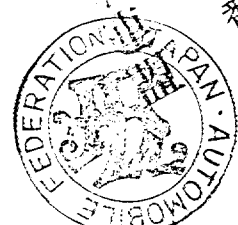
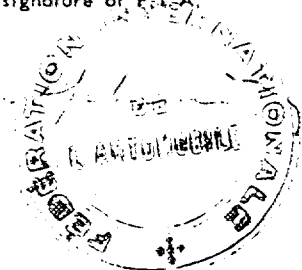
JAPAN AUTOMOBILE FEDERATION Chairman of Technical Sub-commission

Handwritten signature of Osamu Hirao

Osamu Hirao

Stamp and signature of F.I.A.

Vertical Japanese text: 東京建設大学自動車部 (Tokyo University of Construction Automobile Department)



FEDERATION INTERNATIONALE DE L'AUTOMOBILE
 8, place de la Concorde PARIS (8^e)
 Tél: ANJOU 34.70

①

FICHE D'EXTENSION D'HOMOLOGATION (EVOLUTION NORMALE DU TYPE)

N°: 531/1/ET

établie le: 14TH DEC. 1965 d'après dossier présenté par le Constructeur le: 1965

MARQUE:
 NISSAN MOTOR CO., LTD.

TYPE PRECEDEMMENT HOMOLOGUE, AUQUEL S'APPLIQUE L'EXTENSION
 SP(L)311

DATE DE SORTIE DES PREMIERS VEHICULES CONSTRUITS AVEC LE
 BÉNÉFICE DE L'EXTENSION D'HOMOLOGATION (EVOLUTION NOR-
 MALE DU TYPE):
 3RD OCT. 1965

N° DANS LA SERIE DU TYPE INAUGURANT L'EXTENSION D'HOMO-
 LOGATION (EVOLUTION NORMALE DU TYPE)
 SPL 311 - 002619

LE MODELE EST ADMIS AU BENEFICE SIGNATURE ET CACHET F.I.A.
 DE L'EXTENSION D'HOMOLOGATION (EVOLUTION NORMALE DU TYPE)
 PAR LA F.I.A. le: 1st Febr. 1966 LISTE: 14/2

DESCRIPTION DES MODIFICATIONS AYANT PERMIS D'ADMETTRE LE VEHICULE AU BENEFICE DE
 L'EXTENSION D'HOMOLOGATION (EVOLUTION NORMALE DU TYPE)

ITEM 139 : CHANGE OF QUALITY OF MATERIALS.
 (FROM CAST IRON TO ALUMINIUM CAST)

THE QUALITY OF MATERIALS SPECIFIED IN ITEM 139 WAS CHANGED AS FROM
 OCTOBER 3RD, 1965.

東京都港区芝公園第三号地一番五
 機械振興会館内
 法人 日本自動車連盟

