



# JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. **3022**  
Group **3**

## 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 | 1,998               | cm <sup>3</sup> 121.93 | cu. in. |
| Serial No. of chassis     | S30-00001              | Model             | DATSUN SPORTS Z S30 |                        |         |
| Serial No. of engine      | L20-A2001              | Manufacturer      | NISSAN              |                        |         |
| Recognition is valid from |                        | Manufacturer      | NISSAN              |                        |         |
|                           |                        | List              |                     |                        |         |

The manufacturing of the model described in this recognition form was started on **OCT. 1969** and the minimum production of **500** identical cars, in accordance with the specifications of this form was reached on **DEC. 1969**

Photograph A, 3/4 view of car from front



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

| Variants |    |          |      | 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 | 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  
National Sporting Authority

Stamp and signature of the F. I. A.





Make NISSAN

Model S30

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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.

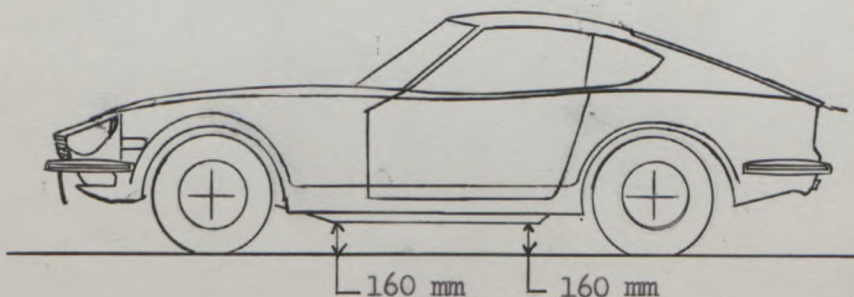
**CAPACITIES AND DIMENSIONS**

|   |       |           |       |             |
|---|-------|-----------|-------|-------------|
| 1. <u>Wheelbase</u>   | 2,305 | mm        | 90.74 | inches      |
| 2. <u>Front track</u>   | 1,355 | mm        | 53.35 | inches *    |
| 3. <u>Rear track</u>  | 1,345 | mm        | 52.95 | inches *    |
| 4. Overall length of the car  | 411.5 | cm        |       | inches      |
| 5. Overall width of the car   | 163.0 | cm        |       | inches      |
| 6. Overall height of the car  | 128.5 | cm        |       | inches      |
| 7. <u>Capacity of fuel tank</u> (reserve included)  |       |           | 60    | 1 trs       |
|   | 15.85 | 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: |       |           |       |             |
|   | 915   | kg        | 2,017 | 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.



**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 <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) |    |             |



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**CHASSIS AND COACHWORK** (Photographs A, B and C)

- 20. Chassis/body construction : ~~separate~~ / unitary construction
- 21. Unitary construction, material (s) **Steel**  
Separate construction
- 22. Separate Constructions: Material(s) of chassis
- 23. Material (s) of coachwork **Steel**
- 24. Number of doors **2** 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 : ~~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 :  
**7 x 2** kg lbs

- 43. Rear seats, type of seats and upholstery
- 44. Front bumper, material (s) **Steel** Weight **3.0** kg lbs
- 45. Rear bumper, material (s) **Steel** Weight **5.0** kg lbs

**WHEELS**

- 50. Type **Pressed steel**
- 51. Weight (per wheel, without tyre) **7.5** kg lbs
- 52. Method of attachment **Wheel nuts (4 nuts)**
- 53. Rim diameter **355** mm **14** inches
- 54. Rim width **114** mm **4.5** inches  
**140** mm **5.5** inches

**STEERING**

- 60. Type **Rack and Pinion**
- 61. Servo-assistance : ~~YES~~ - **NO**
- 62. Number of turns of steering wheel from lock to lock **3**
- 63. In case of servo-assistance





**SUSPENSION**

- 70. Front suspension (photogr. D), type Independent (McPherson)
- 71. Type of spring Coil
- 72. Stabiliser (if fitted) Torsion bar
- 73. Number of shockabsorbers 2
- 74. Type Hydraulic telescopic
- 78. Rear suspension (photogr. E), type Independent (McPherson)
- 79. Type of spring Coil
- 80. Stabiliser (if fitted) Torsion bar
- 81. Number of shockabsorbers 2
- 82. Type Hydraulic telescopic

**BRAKES** (photographs F and G)

- 90. System Hydraulic
- 91. Servo-assistance (if fitted), type
- 92. Number of hydraulic master cylinders 2

|                                   | FRONT |    |     | REAR  |    |     |
|-----------------------------------|-------|----|-----|-------|----|-----|
| 93. Number of cylinders per wheel | 2     |    |     | 1     |    |     |
| 94. Bore of wheel cylinder (s)    | 54.00 | mm | in. | 22.23 | mm | in. |

**Drum brakes**

|                               |  |                 |         |        |                 |         |
|-------------------------------|--|-----------------|---------|--------|-----------------|---------|
| 95. Inside diameter           |  | mm              | in.     | 228.6  | mm              | in.     |
| 96. Length of brake linings   |  | mm              | in.     | 219.5  | 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 <sup>2</sup> | sq. in. | 17,560 | mm <sup>2</sup> | sq. in. |

**Disc brakes**

|                                |          |                 |         |   |                 |         |
|--------------------------------|----------|-----------------|---------|---|-----------------|---------|
| 100. Outside diameter          | 271      | mm              | in.     |   | mm              | in.     |
| 101. Thickness of disc         | 12.5     | mm              | in.     |   | mm              | in.     |
| 102. Length of brake linings   | 78.4     | mm              | in.     |   | mm              | in.     |
| 103. Width of brake linings    | 41.6     | mm              | in.     |   | mm              | in.     |
| 104. Number of pads per brake. |          |                 |         | 2 |                 |         |
| 105. Total area per brake      | 6,522.88 | mm <sup>2</sup> | sq. in. |   | mm <sup>2</sup> | sq. in. |



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ENGINE (photographs J and K)

- 130. Cycle 4
- 131. Number of cylinders 6
- 132. Cylinder arrangement In line
- 133. Bore 78 mm 3.07 in. 134. Stroke 69.7 mm 2.74 in.
- 135. Capacity per cylinder 333 cm<sup>3</sup> 20.32 cu. in.
- 136. Total cylinder-capacity 1,998 cm<sup>3</sup> 121.93 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 6
- 141. Number of exhaust ports 6
- 142. Compression ratio 9.5
- 143. Volume of one combustion chamber 39.1 cm<sup>3</sup> cu. in.
- 144. Piston, material Al-Cast 145. Number of rings 3
- 146. Distance from gudgeon pin centre line to highest point of piston crown  
40 mm inches
- 147. Crankshaft : ~~welded~~ / stamped 148. Type of crankshaft : integral / ~~XXXXX~~
- 149. Number of crankshaft main bearings 7
- 150. Material of bearing cap Cast-Iron
- 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 quarts US
- 155. Capacity of cooling system 8 ltrs pints
- 156. Cooling fan (if fitted), dia. 35 cm inches
- 157. Number of blades of cooling fan 4

Bearings

- 158. Crankshaft main, type Plain Dia. 55.0 mm in.
- 159. Connecting rod big end, Plain Dia. 50.0 mm in.

Weights

- 160. Flywheel (clean) 9.6 kg lbs
- 161. Flywheel with clutch (all turning parts) 17.2 kg lbs
- 162. Crankshaft 19.3 kg lbs 163. Connecting rod 0.66 kg lbs
- 164. Piston with rings and pin 0.49 kg lbs





**FOUR STROKE ENGINES**

170. Number of camshafts **1**      171. Location **Cylinder head**  
 172. Type of camshaft drive **Chain**  
 173. Type of valve operation **Rocker arm**

**INLET** (see page 8) \*

180. Material(s) of inlet manifold **Al-Cast**  
 181. Diameter of valves **38** mm **1.50** inches  
 182. Max. valve lift **10.5** mm **0.41** in.      183. Number of valve springs **2**  
 184. Type of spring **Coil**      185. Numbr of valves per cylinder **1**  
 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. 21° ± 7°**  
 188. Valves close at (with tolerance for tappet clearance indicated) **A.B.D.C. 47° ± 7°**  
 189. Air filter, type **Dry**

**EXHAUST** (see page 8)

195. Material (s) of exhaust manifold **Cast-Iron**  
 196. Diameter of valves **33** mm **1.30** inches  
 197. Max. valve lift **10.5** mm **0.41** 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) **0.30** mm **inches**  
 202. Valves open at (with tolerance for tappet clearance indicated) **B.B.D.C 60° ± 7°**  
 203. Valves close at (with tolerance for tappet clearance indicated) **A.T.D.C 9° ± 7°**

**CARBURETION** (photograph N)

210. Number of carburetors fitted **2**      211. Type **Side-Draft**  
 212. Make **HITACHI**      213. Model **HJG38W**  
 214. Number of mixture passages per carburetor **1**  
 215. Flange hold diameter of exit port(s) of carburetor **38** mm **in.**  
 216. Minimum dimensions of mixture pasage (s) with piston at max. height (example: SU)  
**29** 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.



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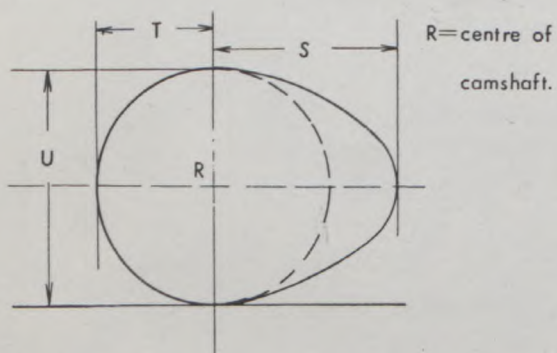
**ENGINE ACCESSORIES**

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

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

- |  |
|--|
| 250. Max. engine output <b>130</b> (type of horsepower: <b>JIS</b> ) at <b>6,000</b> rpm |
| 251. Maximum rpm <b>6,500</b> output at that figure <b>123</b>                           |
| 252. Maximum torque <b>17.5</b> at rpm <b>4,400</b>                                      |
| 253. Maximum speed of the car <b>185</b> km/hour miles / hour                            |

255.



Inlet cam

|     |      |    |      |        |
|-----|------|----|------|--------|
| S = | 23.5 | mm | 0.93 | inches |
| T = | 16.5 | mm | 0.65 | inches |
| U = | 33.0 | mm | 1.30 | inches |

Exhaust cam

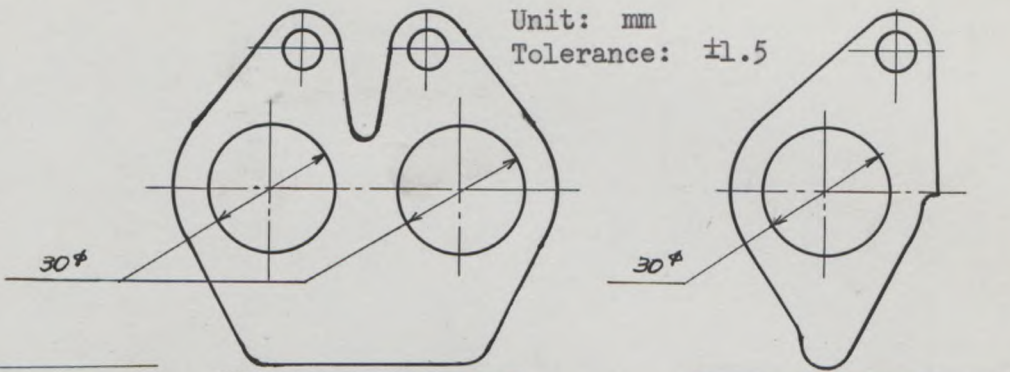
|     |      |    |      |        |
|-----|------|----|------|--------|
| S = | 23.5 | mm | 0.93 | inches |
| T = | 16.5 | mm | 0.65 | inches |
| U = | 33.0 | mm | 1.30 | inches |



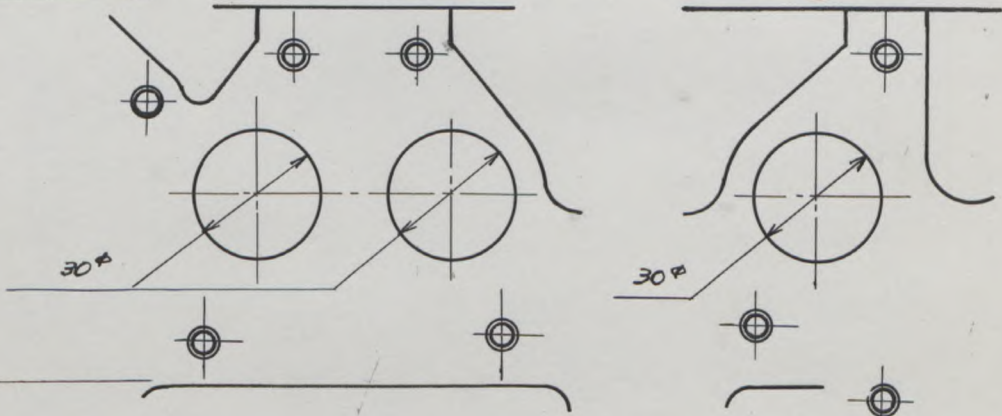


Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.

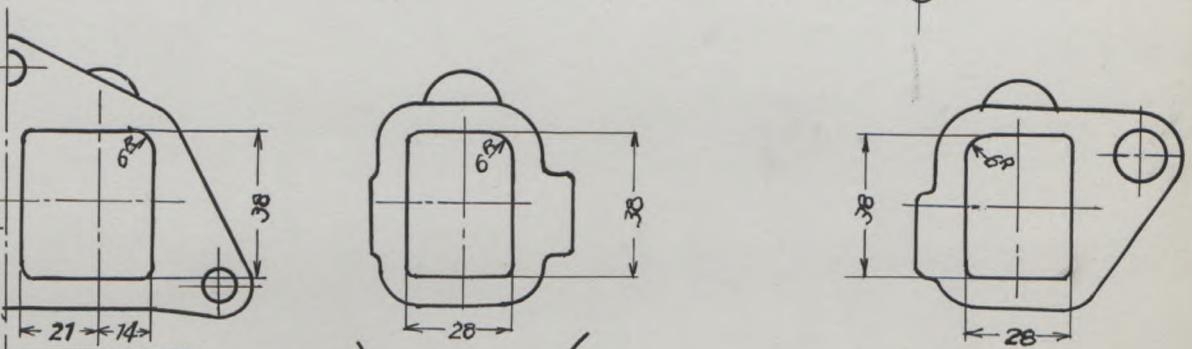
Unit: mm  
Tolerance: ±1.5



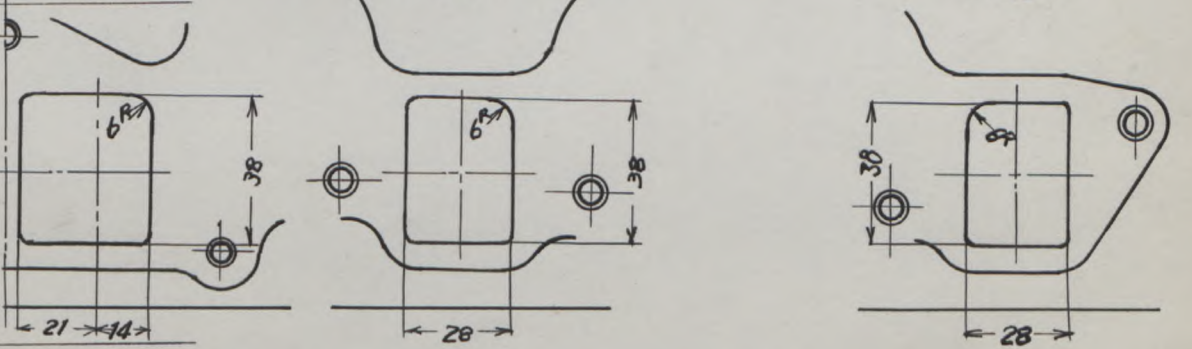
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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.





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**DRIVE TRAIN**

**CLUTCH**

- 260. Type of clutch **Dry single plate** 261. No. of plates **1**
- 262. Dia. of clutch plates **22.7** cm inches
- 263. Dia. of linings, inside **15.0** cm in. outside **22.5** cm in.
- 264. Method of operating clutch **Hydraulic**

**GEAR BOX** (photograph H)

- 270. Manual type, make **NISSAN** Method of operation **Mechanical**
- 271. No. of gear-box ratios forward **4 or 5** 272. Synchronized forward ratios **1, 2, 3, 4 or 1, 2, 3, 4, 5**
- 273. Location of gear-shift **Floor**
- 274. Automatic, make type
- 275. No. of forward ratios 276. Location of gear-shift

| 277.    | Manual |   | Alternative manual |   | Alternative manual |   | Alternative manual |   |
|---------|--------|---|--------------------|---|--------------------|---|--------------------|---|
|         | Ratio  | No. teeth   | Ratio              | No. teeth   | Ratio              | No. teeth   | Ratio              | No. teeth   |
| 1       | 3.549  | $\frac{29}{22} \times \frac{35}{13}$                      | 2.678              | $\frac{28}{23} \times \frac{33}{15}$                      | 2.957              | $\frac{28}{23} \times \frac{34}{14}$                      | 1.858              | $\frac{28}{23} \times \frac{29}{19}$                      |
| 2       | 2.197  | $\frac{29}{22} \times \frac{30}{18}$                      | 1.704              | $\frac{28}{23} \times \frac{28}{20}$                      | 1.858              | $\frac{28}{23} \times \frac{29}{19}$                      | 1.383              | $\frac{28}{23} \times \frac{25}{22}$                      |
| 3       | 1.420  | $\frac{29}{22} \times \frac{28}{26}$                      | 1.262              | $\frac{28}{23} \times \frac{28}{27}$                      | 1.311              | $\frac{28}{23} \times \frac{28}{26}$                      | 1.217              | $\frac{28}{23} \times \frac{27}{27}$                      |
| 4       | 1.000  |   | 1.000              |   | 1.000              |   | 1.000              |   |
| 5       |        |   | 0.852              | $\frac{28}{23} \times \frac{21}{30}$                      | 0.852              | $\frac{28}{23} \times \frac{21}{30}$                      | 0.852              | $\frac{28}{23} \times \frac{21}{30}$                      |
| 6       |        |   |                    |   |                    |   |                    |   |
| reverse | 3.164  | $\frac{29}{22} \times \frac{17}{15} \times \frac{36}{17}$ | 2.922              | $\frac{28}{23} \times \frac{17}{15} \times \frac{36}{17}$ | 2.922              | $\frac{28}{23} \times \frac{17}{15} \times \frac{36}{17}$ | 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)
- 293. Final drive ratio **3.364 3.545 3.700 3.900**  
Number of teeth **37/11 39/11 37/11 39/10**





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, N, and page 8

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 equipement affecting preceeding information. This to be stated together with reference number.

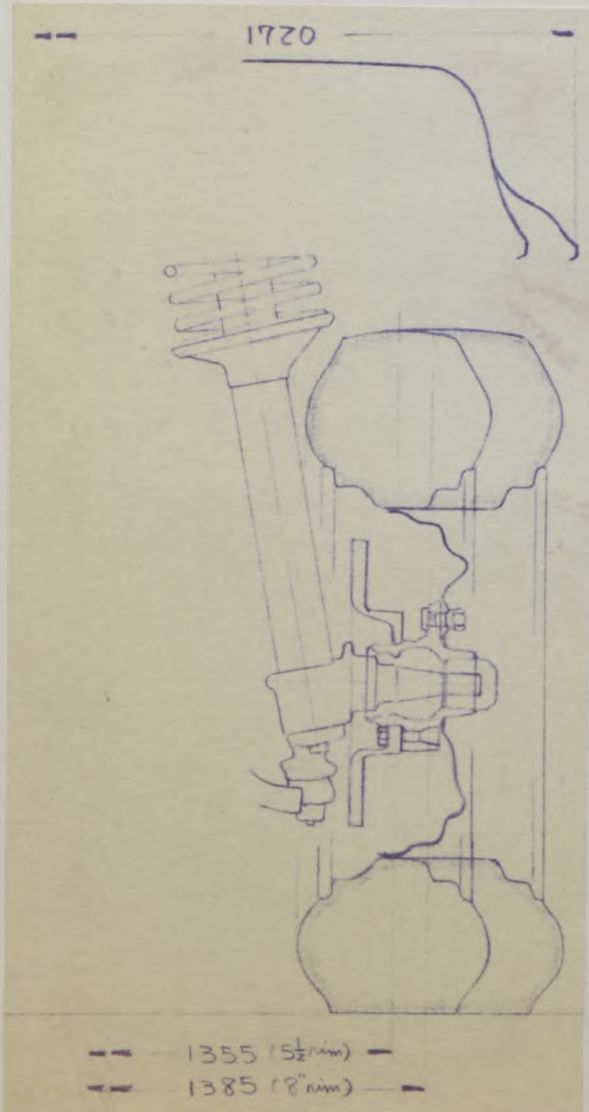
The following items have been added.

*Valid for GR IV*

- |     |                       |            |                 |
|-----|-----------------------|------------|-----------------|
| 7)  | Capacity of fuel tank | 100 ltrs   | 26.42 gallon US |
| 50) | Type                  | Magnesium  |                 |
| 51) | Weight & Rim width    | 5.0 kg     | 5.5 kg          |
| 54) |                       | 7.0 inches | 8.0 inches      |
|     |                       | 178 mm     | 203 mm          |
|     |                       | 6.0 kg     | 10.0 inches     |
|     |                       | 254 mm     |                 |

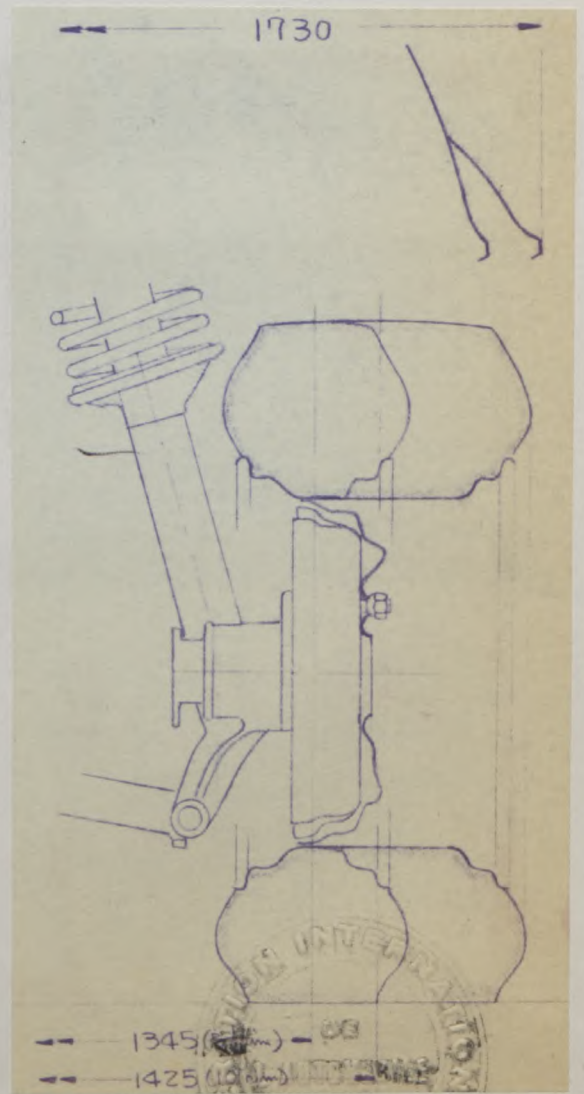
Front

1720



Rear

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GR IV

| 292) Type of limited slip differential | Friction |       |       |       |       |
|--|----------|-------|-------|-------|-------|
| 293) Final drive ratio                 | 4.111    | 4.375 | 4.625 | 4.875 | 5.125 |
| Number of teeth                        | 37/9     | 35/8  | 37/8  | 39/8  | 41/8  |

Optional)

Over Fender

Front



Rear



Air Spoiler





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Photograph

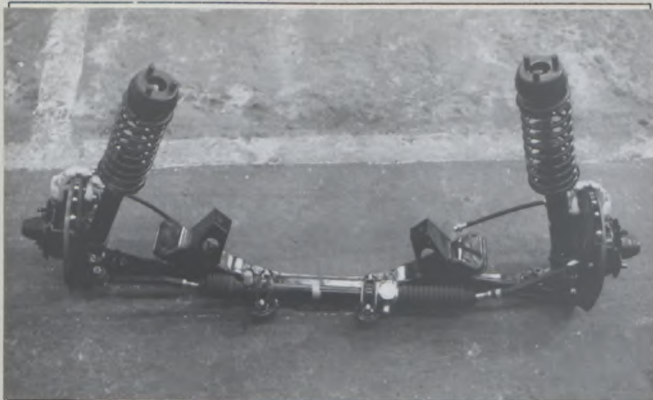
B, 3/4 view of car from rear



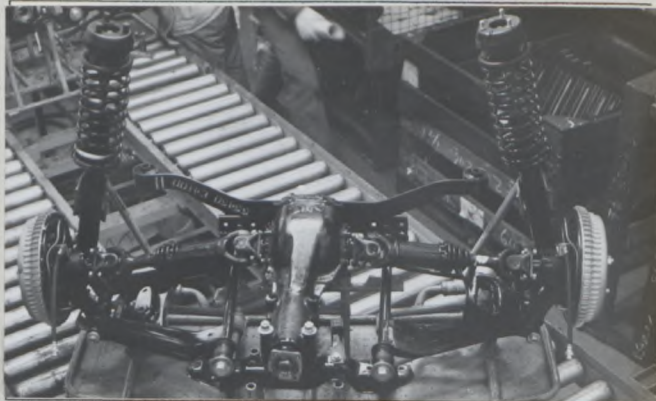
C, interior view of car through driver's door (open or removed) with dashboard



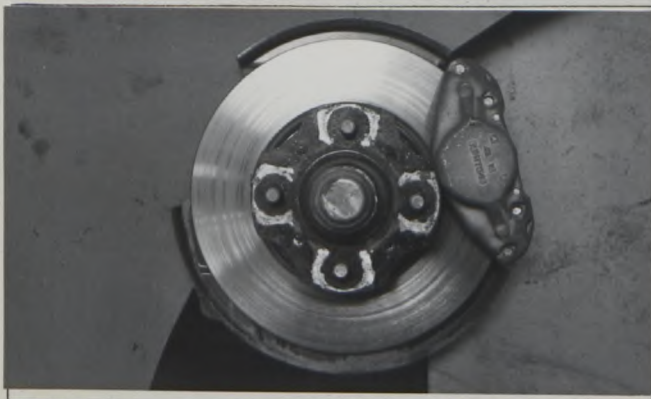
D, front axle complete, removed from car. Without wheels.



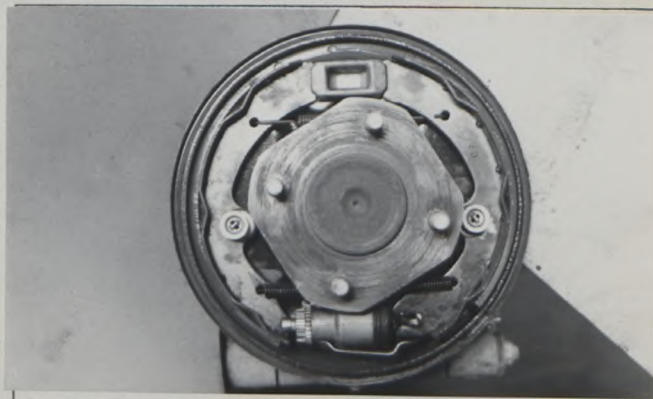
E, Rear axle complete without wheels, removed from car.



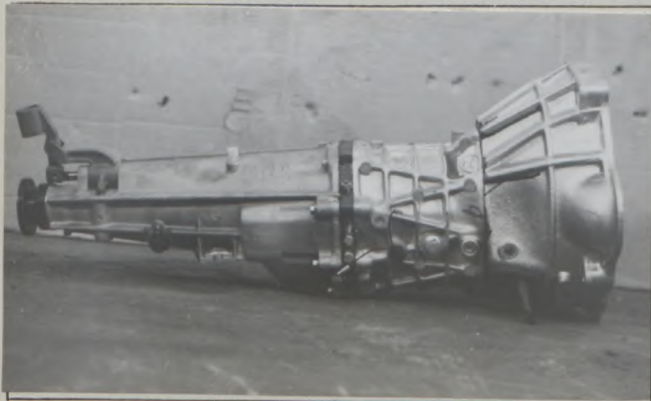
F, front brake, drum removed or disc with caliper(s)



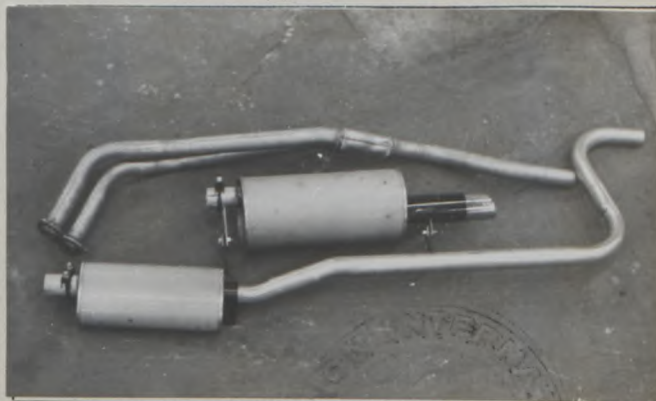
G, rear brake, drum removed or disc with caliper(s)



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold.





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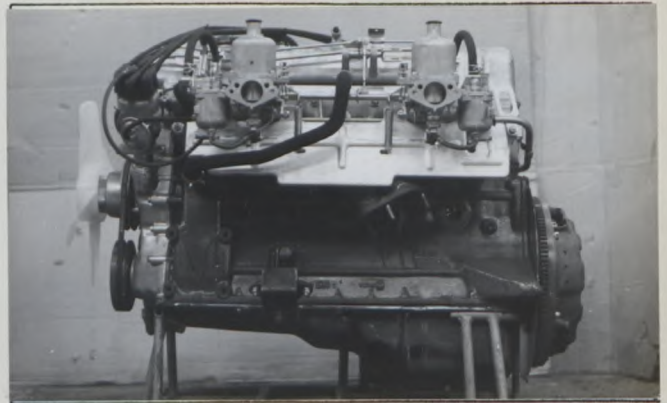
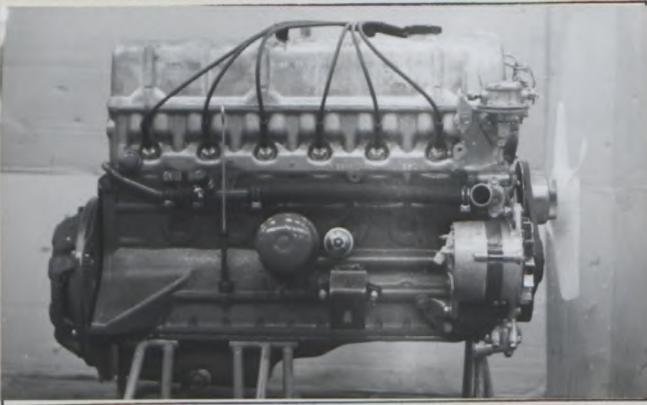
Model S30

F.I.A. Rec. No

Photograph

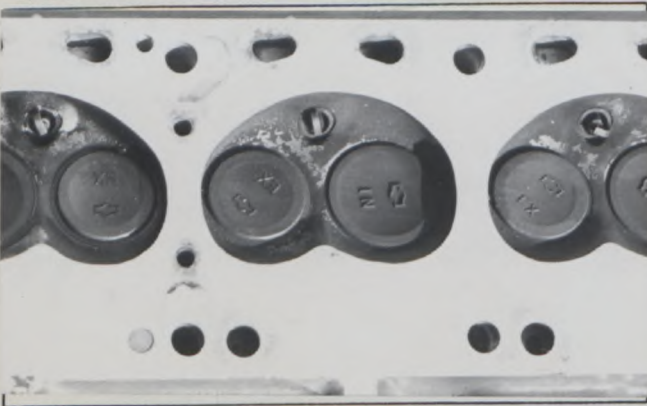
engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.

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



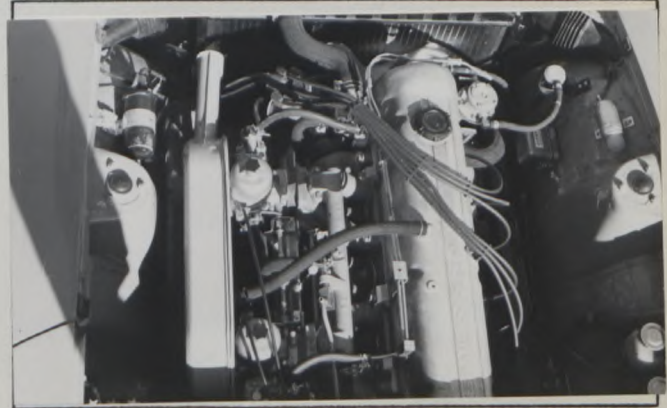
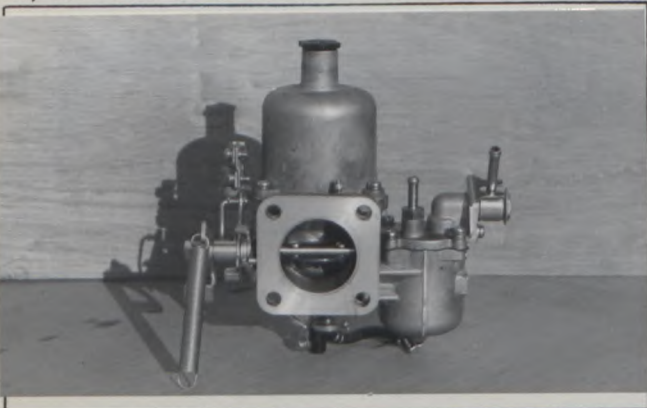
L, combustion chamber

M, piston crown



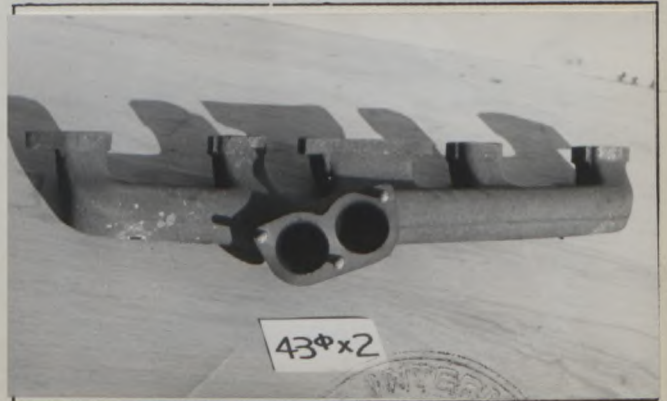
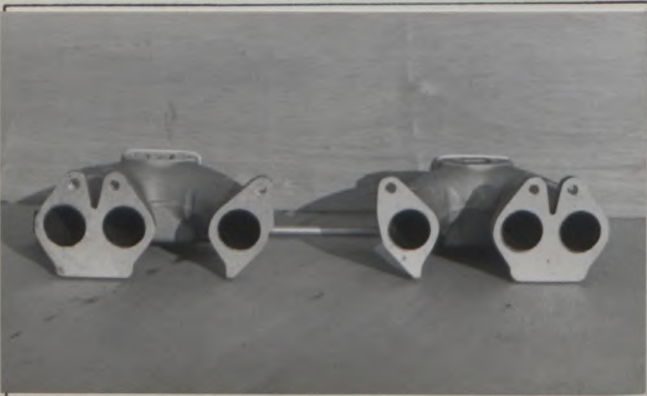
N, Carburettor (view from side of manifold)

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



P, inlet manifold

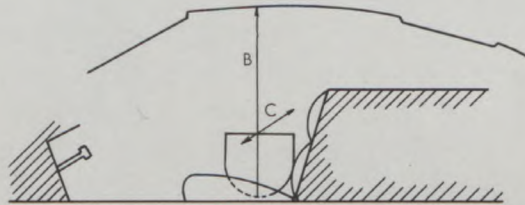
Q, exhaust manifold





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

For two seaters :



| Minimum Dimensions |           |
|--------------------|-----------|
| B                  | C         |
| 96<br>cm           | 135<br>cm |





3022

Make

NISSAN

Model

S30

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 mm<sup>2</sup> sq. in.
- 305. Exhaust ports, length measured around cylinder wall mm inches
- 306. Height exhaust port mm in. 307. Area mm<sup>2</sup> sq. in.
- 308. Transfer port, length measured around cylinder wall mm inches
- 309. Height transfer port mm in. 310. Area. mm<sup>2</sup> sq. in.
- 311. Piston ports, length measured around piston mm inches
- 312. Height piston port mm in. 313. Area mm<sup>2</sup> 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

Kazunari Komotori

