



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No 5063
 Group 1 - Series - Production
Touring

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer **HONDA MOTOR CO., LTD.** Cylinder-capacity **606** cm³ **36.9** cu.in
 Serial No of chassis **AS285-1000001** Model **HONDA S600**
 engine **AS285E-1000001** Manufacturer **HONDA MOTOR CO., LTD.**
 Recognition is valid from 1st February 1966 List 14/2
 Manufacturer **HONDA MOTOR CO., LTD.**
 The manufacturing of the model described in this recognition form was started on **Mar., 1965** and the minimum production of
 5000 identical cars, in accordance with the specifications of this form was reached on **Nov., 1965**
SeP.,

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

Stamp and signature of the

National Sporting Authority

Kametaro Fujita
 Chairman C.S.



Stamp and signature of the F. I. A.



Make HONDA MOTOR CO., LTD.

Photograph Model HONDA S600

F. I. A. Rec. No

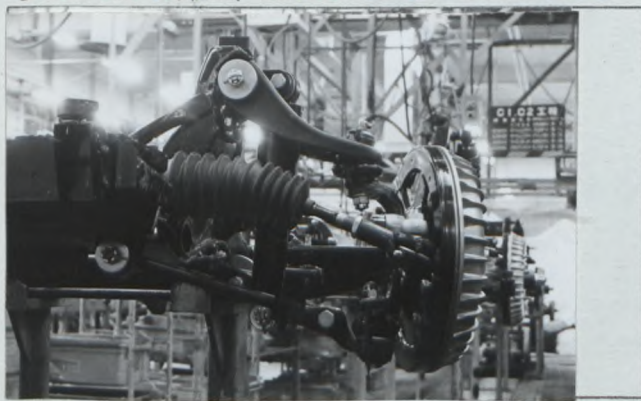
B 3/4 view of car from rear



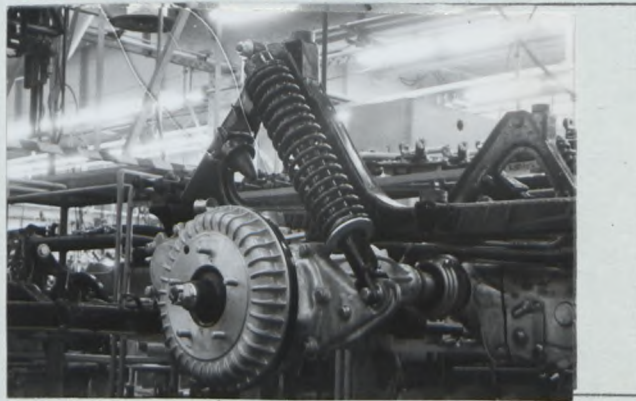
C interior view of car through driver's door (open or removed)



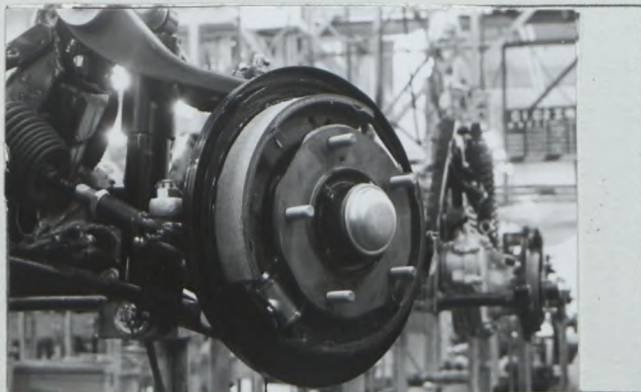
D front axle complete, removed from car. Without wheels.



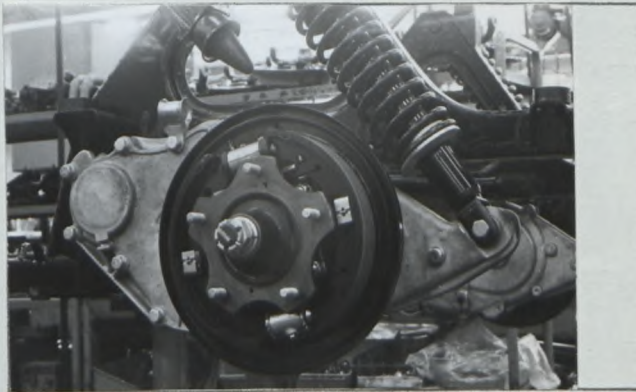
E Rear axle complete without wheels, removed from car.



F front brake, drum removed



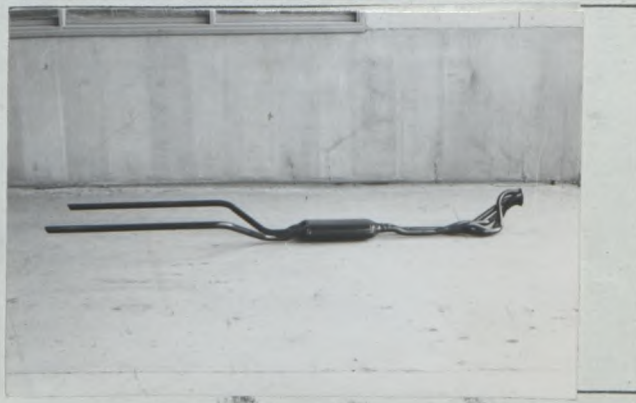
G rear brake, drum removed



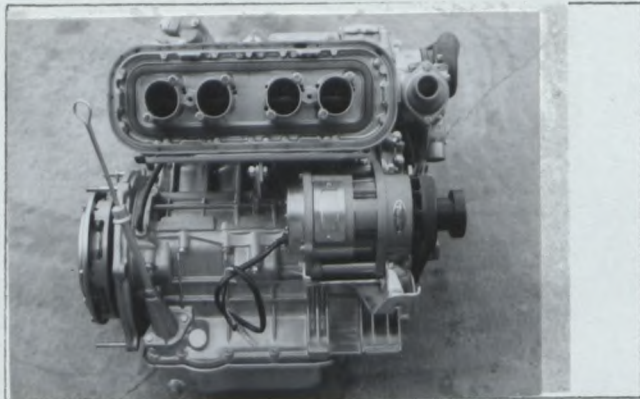
H gear-box, view from side



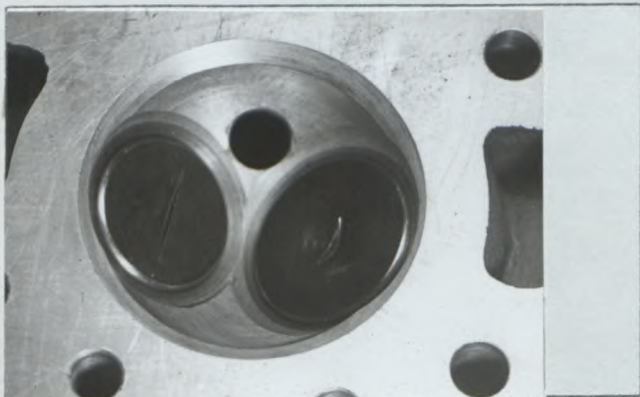
I silencer + exhaust pipes after exhaust manifold.



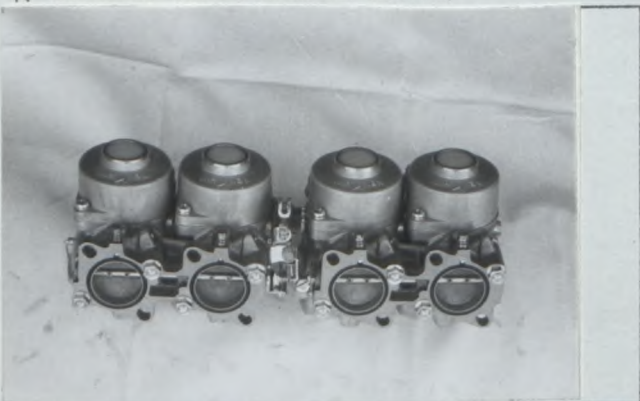
Make **HONDA MOTOR CO., LTD.**
 engine unit out of car, from right. With clutch and
 J accessories but without air filter nor gear-box.



L combustion chamber



N Carburettor (view from side of manifold)



P inlet manifold



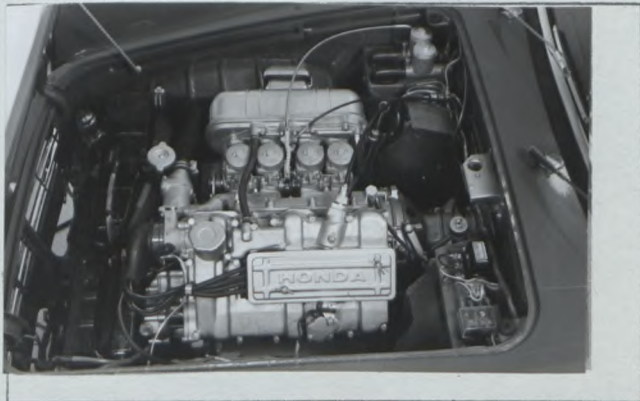
Photograph Model **HONDA S600** F.I.A. Rec. No
 Engine unit out of car, from left. With clutch and ac-
 K cessories but without gear-box nor air filter.



M piston crown



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

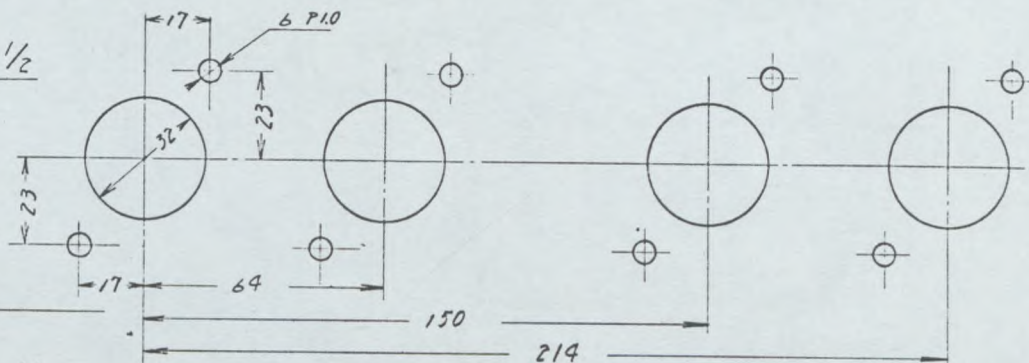


Q exhaust manifold



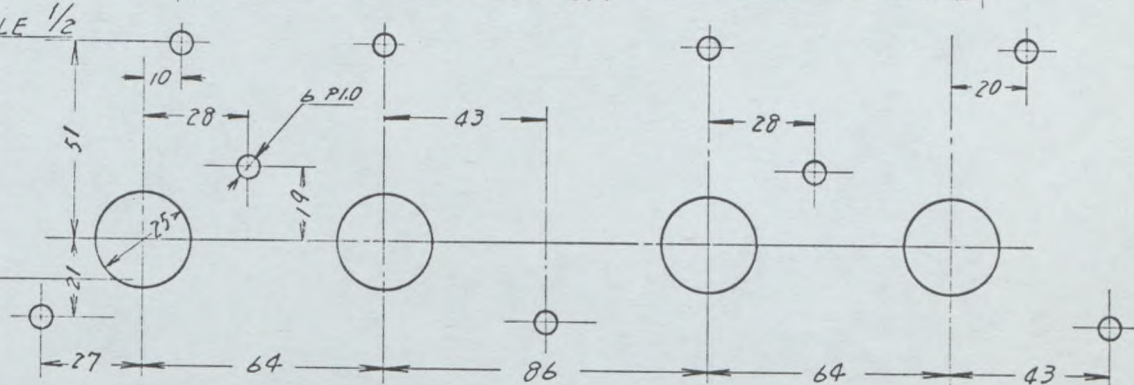
Drawing inlet
manifold ports, SCALE 1/2

side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.

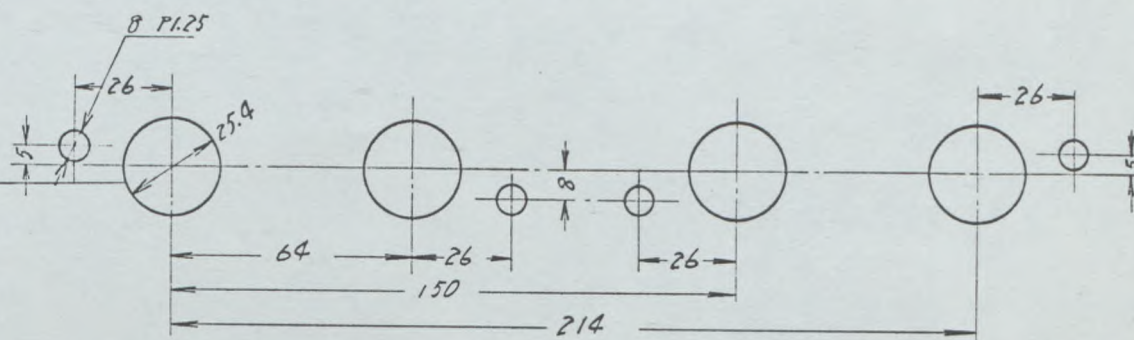


Drawing of entrance to inlet SCALE 1/2

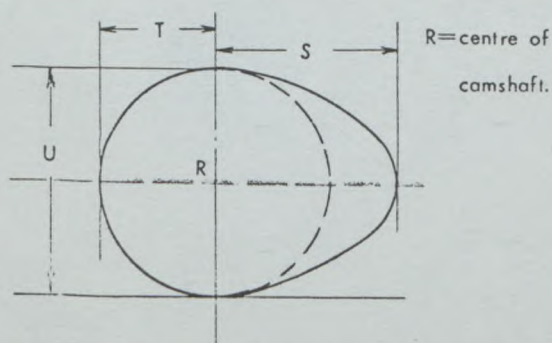
port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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.



Inlet cam

| | | | | |
|-----|------|----|-------|--------|
| S = | 19.5 | mm | 0.768 | inches |
| T = | 12.5 | mm | 0.493 | inches |
| U = | 25 | mm | 0.984 | inches |

Exhaust cam

S = 19.0 mm 0.753 inches
T = 12.5 mm 0.493 inches
U = 25 mm 0.984 inches



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> | 2,000 | mm | 78.7 | inches |
| 2. <u>Front track</u> | 1,150 | mm | 45.3 | inches * |
| 3. <u>Rear track</u> | 1,128 | mm | 44.4 | inches * |
| 4. Overall length of the car | | 330 | cm | 130 inches |
| 5. Overall width of the car | | 140 | cm | 55.2 inches |
| 6. Overall height of the car | | 120 | cm | 47.25 inches |
| 7. <u>Capacity of fuel tank</u> (reserve included) | | | 25 | l trs |
| | 6.6 | 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 | | | | |
| | 600 710 | kg | 1,500 | lbs |
| | | | 1,560 | cwt |

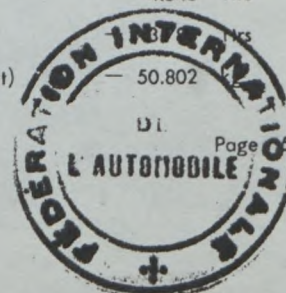
*) Differences in track caused by the use of other wheels with different rim widths must be stated when recognition is requested for the wheels concerned.

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) | — 50.802 ltrs |



Make

HONDA MOTOR CO., LTD.

Model

HONDA S600

F.I.A. Rec. No

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction : separate / ~~unitary~~
21. Unitary construction, material (s)
Separate construction
22. Material (s) of chassis Steel
23. Material (s) of coachwork Steel plate, Vinyl leather & Wooden hard board
24. Number of doors **2** Material (s) ~~4~~ Steel
25. Material (s) of bonnet Steel plate
26. Material (s) of boot lid Steel
27. Material (s) of rear-window Poly Vinyl Carbonate
28. Material (s) of windscreen Glass
29. Material (s) of front-door windows Glass
30. Material (s) of rear-door windows _____
31. Sliding system of door windows Vertical (Manual)
32. Material (s) of rear-quarter light Plastic

ACCESSORIES AND UPHOLSTERY

38. Interior heating : ~~yes~~ - no
39. Air-conditioning : ~~yes~~ - no
40. Ventilation : yes - ~~no~~
41. Front seats, type of seat and upholstery Bucket seat with Vinyl leather
42. Weight of front seat (s), complete with supports and rails, out of the car :
20.6 kg 45.42 lbs
43. Rear seats, type of seat and upholstery
44. Front bumper, material (s) Steel Weight 4.2 kg 9.26 lbs
45. Rear bumper, material (s) Steel Weight 4.26 kg 9.39 lbs

WHEELS

50. Type Pressed Steel , Disc
51. Weight (per wheel, without tyre) 4 kg 8.82 lbs
52. Method of attachment Five nuts clamp
53. Rim diameter 329.4 mm 13 inches
54. Rim width 102 mm 4 inches

STEERING

60. Type Rack & Pinion
61. Servo-assistance : ~~yes~~ - no
62. Number of turns of steering wheel from lock to lock 2.5
63. In case of servo-assistance _____



Make

HONDA MOTOR CO., LTD.

Model

HONDA S600

F. I. A. Rec. No

SUSPENSION

70. Front suspension (photogr. D), type Independent wish bone
 71. Type of spring Torsion bar
 72. Stabiliser (if fitted) Torsion bar
 73. Number of shockabsorbers **2** 74. Type Telescopic type (Hydraulic)
 78. Rear suspension (photogr. E), type Independent trailing arm
 79. Type of spring **Coil**
 80. Stabiliser (if fitted)
 81. Number of shockabsorbers **2** 82. Type Telescopic type (Hydraulic)

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 | 1 | | | 1 | |
| 94. Bore of wheel cylinder (s) | 22 | mm | 0.86 in. | 19 | mm 0.74 in. |
| Drum brakes | | | | | |
| 95. Inside diameter | 212 | mm | 8.17 in. | 212 | mm 8.17 in. |
| 96. Length of brake linings | 265 | mm | 10.34 in. | 265 | mm 10.34 in. |
| 97. Width of brake linings | 34 | mm | 1.33 in. | 34 | mm 1.33 in. |
| 98. Number of shoes per brake | 2 | | | 2 | |
| 99. Total area per brake | 18,020 | mm ² | 27.5 sq. in. | 18,020 | mm ² 27.5 sq. in. |
| Disc brakes | | | | | |
| 100. Outside diameter | | mm | in. | | mm in. |
| 101. Thickness of disc | | mm | in. | | mm in. |
| 102. Length of brake linings | | mm | in. | | mm in. |
| 103. Width of brake linings | | mm | in. | | mm in. |
| 104. Number of pads per brake | | | | | |
| 105. Total area per brake | | 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 | 54.5 mm | 134. Stroke | 65 mm |
| | 2.15 in. | | 2.56 in. |
| 135. Capacity per cylinder | | | |
| | 151.5 cm ³ | | 9.25 cu. in. |
| 136. Total cylinder-capacity | 606 cm ³ | | 36.99 cu. in. |
| 137. Material (s) of cylinder block | Aluminum Alloy | | |
| 138. Material (s) of sleeves (if fitted) | Cast iron | | |
| 139. Cylinder-head, material (s) | Aluminum Alloy | Number fitted | 1 |
| 140. Number of inlet ports | 4 | 141. Number of exhaust ports | 4 |
| 142. Compression ratio | 9.5 | | |
| 143. Volume of one combustion chamber | | | |
| | 26.9 cm ³ | | 1.64 cu. in. |
| 144. Piston, material | Aluminum Alloy | 145. Number of rings | 3 |
| 146. Distance from gudgeon pin centre line to highest point of piston crown | | | |
| | 31.6 mm | | 1.244 inches |
| 147. Crankshaft : stamped / stamped | | 148. Type of crankshaft : integral / | Single plane assembled |
| 149. Number of crankshaft main bearings | 3 | | |
| 150. Material of bearing cap | Steel | | |
| 151. System of lubrication : oil in sump / oil in sump | | | |
| 152. Capacity, lubricant | 3.7 ltrs | | |
| | | 6.5 pts | 3.9 quarts US |
| 153. Oil cooler : yes / no | | | |
| 154. Method of engine cooling | | Water cooled | |
| 155. Capacity of cooling system | 6 ltrs | | |
| | | 10.6 pints | 6.3 quarts US |
| 156. Cooling (if fitted), dia. | 24 cm | | |
| | | 9.4 inches | |
| 157. Number of blades of cooling fan | 4 | | |

Bearings

| | | | |
|-----------------------------------|---------------|--------------|----------|
| 158. Crankshaft main, type | Needle roller | Front 39 mm | 1.54 in. |
| | | Center 44 mm | 1.73 in. |
| 159. Connecting rod big end, type | Needle roller | Rear 32 mm | 1.26 in. |

Weights

| | | | |
|---|----------|-----------|-----------|
| 160. Flywheel (clean) | 2.3 kg | 5.07 lbs | |
| 161. Flywheel with clutch (all turning parts) | | 5.5 kg | 12.1 lbs |
| 162. Crankshaft | 12.5 kg | 27.5 lbs | |
| 163. Connecting rod | | 0.214 kg | 0.474 lbs |
| 164. Piston with rings and pin | 0.173 kg | 0.381 lbs | |



FOUR STROKE ENGINES

170. Number of camshafts 2 171 Location **Cylinder head**
 172. Type of camshaft drive **Chain**
 173. Type of valve operation **Direct**

INLET (see page 4) *

180. Material(s) of inlet manifold **Aluminum Alloy**
 181. Diameter of valves 30 mm 1.18 inches
 182. Max. valve lift 7 mm 0.28 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) 0.2 mm 0.008 inches
 187. Valves open at (With tolerance for tappet clearance indicated) B.T.D.C $20 \pm 2^\circ$
 188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C $40 \pm 2^\circ$
 189. Air filter, type **Paper**

EXHAUST (see page 4)

195. Material (s) of exhaust manifold **Steel pipe**
 196. Diameter of valves 26 mm 1.02 inches
 197. Max. valve lift 6.5 mm 0.256 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) 0.2 mm 0.008 inches
 202. Valves open at (with tolerance for tappet clearance indicated) B.B.D.C $30 \pm 2^\circ$
 203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C $10 \pm 2^\circ$

CARBURETION (photograph N)

210. Number of carburetors fitted 4
 211. Type **Side Draft Vacuum servo variable venturi**
 212. Make **KEIHIN SEIKI** 213. Model **CVB31-26-1**
 214. Number of mixture passages per carburetor 1
 215. Flange hold diameter of exit port(s) of carburetor 31 mm 1.22 in.
 216. Minimum diameter of exit port(s) / minimum diam. with piston at maximum height 26 mm 1.02 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.



Make HONDA MOTOR CO., LTD.

Model HONDA S600

F. I. A. Rec. No.

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: dynamos /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 PERFORMANCE (as declared by manufacturer in catalogue)

| | | | | | |
|-------------------------------|---------|----------------------------|----------|--------------|-----|
| 250. Max. engine output | 57 ps, | (type of horsepower: JIS) | at | 8,500 | rpm |
| 251. Maximum rpm | 9,500 | output at that figure | | 53 ps | |
| 252. Maximum torque | 5.2m-km | at | 5,500rpm | | |
| 253. Maximum speed of the car | 145 | km / hour | 90 | miles / hour | |



Make HONDA MOTOR CO., LTD

Model HONDA S600

F.I.A. Rec. No

DRIVE TRAIN

CLUTCH

260. Type of clutch Dry Single Plate (Diaphragm spring) 261. No. of plates 1
262. Dia. of clutch plates 16.5 cm 6.496 inches
263. Dia. of linings, inside 11 cm 4.3361 in. outside 16.5 cm 6.496 in.
264. Method of operating clutch Hydraulic

GEAR BOX (photograph H)
 Type, make: HONDA
 270. ~~Automatic operation~~ Manual (Direct shift)

271. No. of gear-box ratios forward 4 & 5 272. Synchronized forward ratios 4 (2, 3, 4, Synchro)
 5 (Non Synchro)

273. Location of gear-shift Floor

274. Automatic, make _____ type _____

275. No. of forward ratios 276. Location of gear-shift

| 277. | Manual Ratio | No. teeth | Automatic Ratio | No. teeth | Ratio | Alternative manual/automatic No. teeth | Ratio | No. teeth |
|---------|-----------------|---|--------------------|-----------|-------|---|-------|-----------|
| 1 | 3.89 | $\frac{34}{21} \frac{32}{14} \frac{23}{21}$ | | | 3.683 | $\frac{30}{16} \frac{32}{17} \frac{24}{23}$ | | |
| 2 | 2.19 | $\frac{34}{21} \frac{31}{25} \frac{23}{21}$ | | | 1.875 | $\frac{30}{16} \frac{23}{24} \frac{24}{23}$ | | |
| 3 | 1.43 | $\frac{34}{21} \frac{25}{31} \frac{23}{21}$ | | | 1.550 | $\frac{30}{16} \frac{20}{26} \frac{24}{23}$ | | |
| 4 | 1.09 | $\frac{23}{21}$ | | | 1.214 | $\frac{30}{16} \frac{18}{29} \frac{24}{23}$ | | |
| 5 | | | | | 1.044 | $\frac{24}{23}$ | | |
| 6 | | | | | | | | |
| reverse | 3.89 | $\frac{34}{21} \frac{32}{14} \frac{23}{21}$ | | | 3.913 | $\frac{30}{16} \frac{34}{17} \frac{24}{23}$ | | |

278. Overdrive, type

279. Forward gears on which overdrive can be selected

280. Overdrive ratio

FINAL DRIVE

290. Type of final drive Spiral bevel gear & Chain

291. Type of differential Bevel gear

292. Type of limited slip differential (if fitted) _____

293. Final drive ratio 5.80 & 5.94

Number of teeth Gear $\frac{41}{13}$ Sprocket $\frac{35}{19}$ & $\frac{32}{17}$



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, 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 preceeding information. This to be stated together with reference number.



Make HONDA MOTOR CO., LTD.

Model

HONDA S600

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 Subcommission

