



JAPANESE AUTOMOBILE FEDERATION

F. I. A. Recognition No. 542
Group 3 - Grand Touring

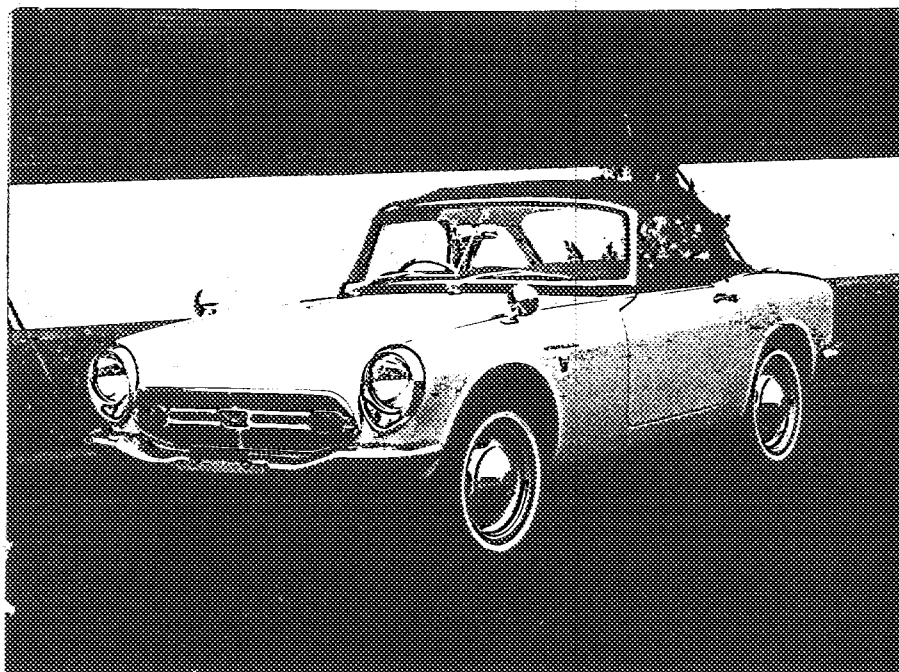
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer	HONDA MOTOR CO., LTD.	Cylinder-capacity	791	cm ³	48.3	cu.in.
Serial No of chassis	AS800-1000001	Model	HONDA S800			
Serial No of engine	AS800E-1000001	Manufacturer	HONDA MOTOR CO., LTD.			
Recognition is valid from	1st May 1966	Manufacturer	HONDA MOTOR CO., LTD.			
		List	14/4			

The manufacturing of the model described in this recognition form was started on DEC., 19 65 and the minimum production of 500 identical cars, in accordance with the specifications of this form was reached on MAR., 19 66

Photograph A, 3/4 view of car from front



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

Variants

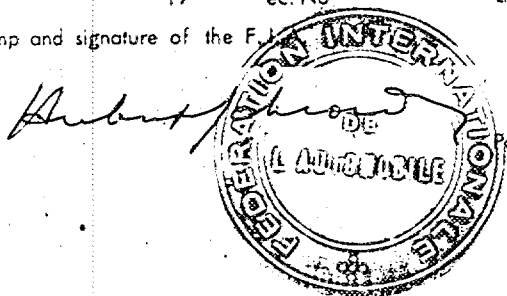
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Stamp and signature of the
National Sporting Authority

Normal evolution of the type

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Stamp and signature of the F. I. A.



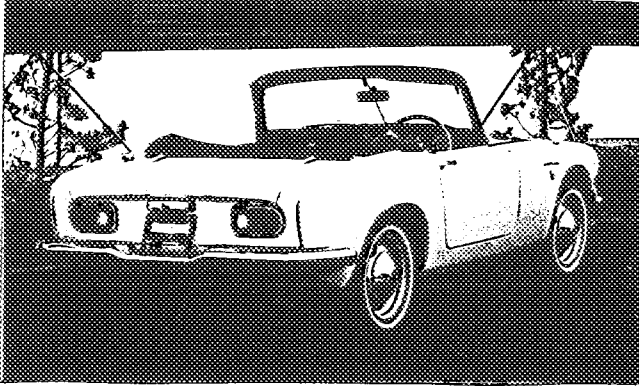
C

Make HONDA MOTOR CO., LTD.

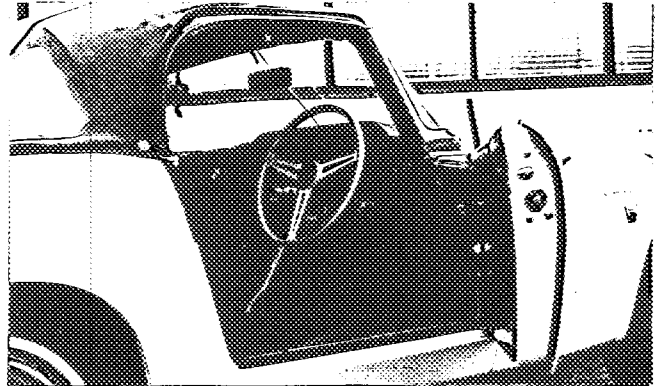
Photograph Model HONDA S800

F.I.A. Rec. No

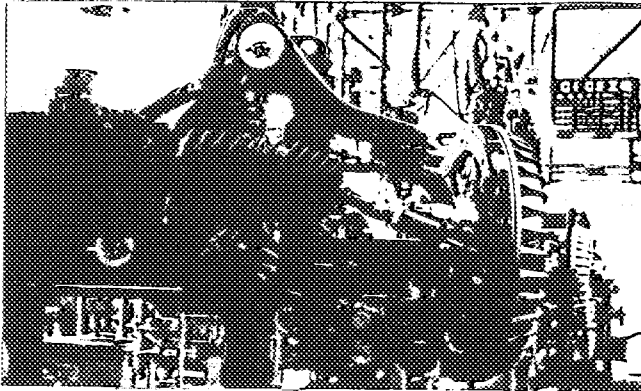
B 3/4 view of car from rear



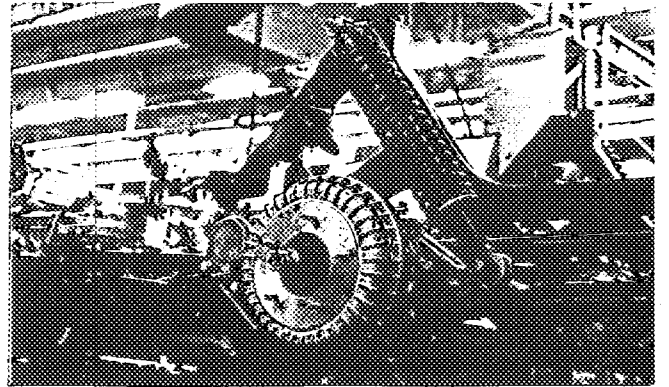
C interior view of car through driver's door (open or removed)



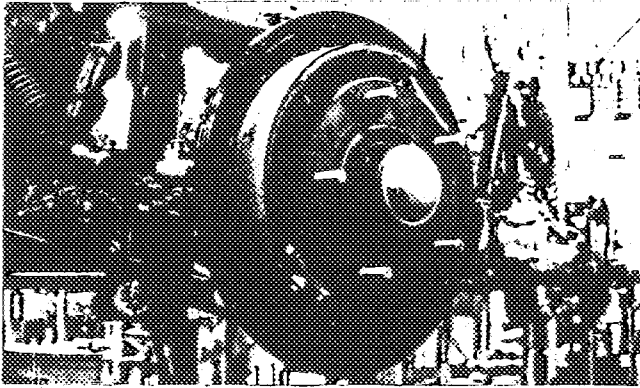
D front axle complete, removed from car. Without wheels.



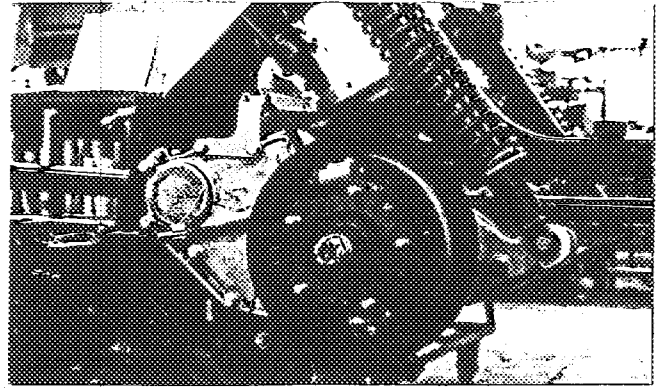
E Rear axle complete without wheels, removed from car.



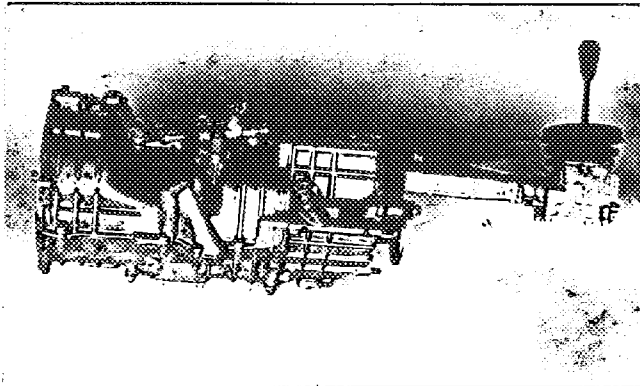
F front brake, drum removed



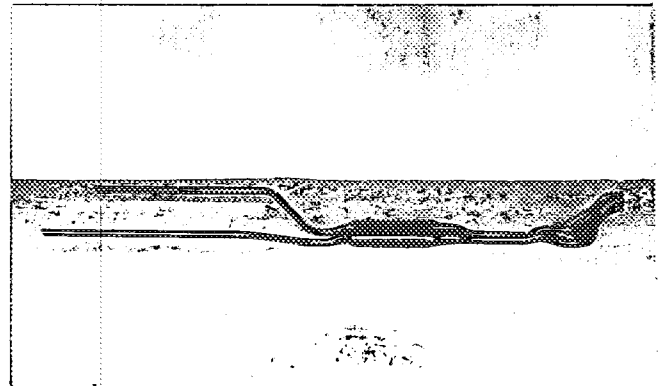
G rear brake, drum removed



H gear-box, view from side

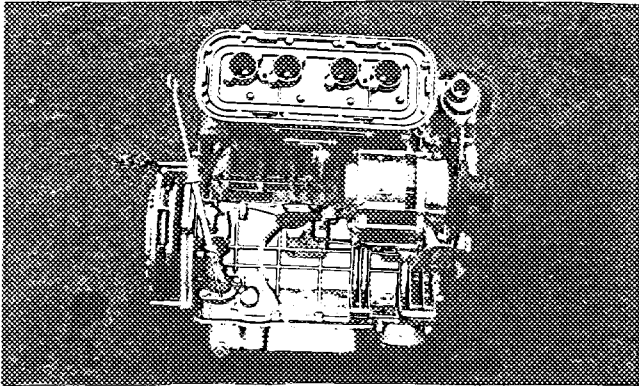


I silencer + exhaust pipes after exhaust manifold.

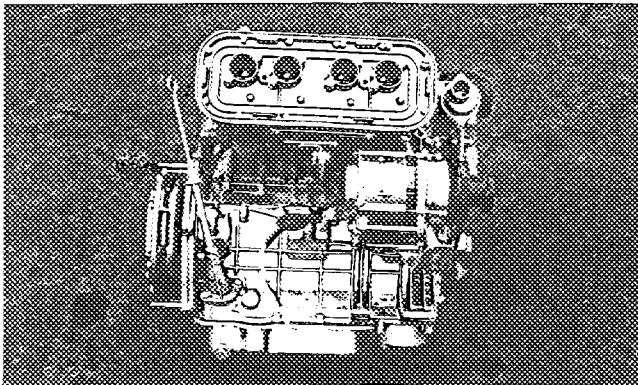


Make HONDA MOTOR CO., LTD.

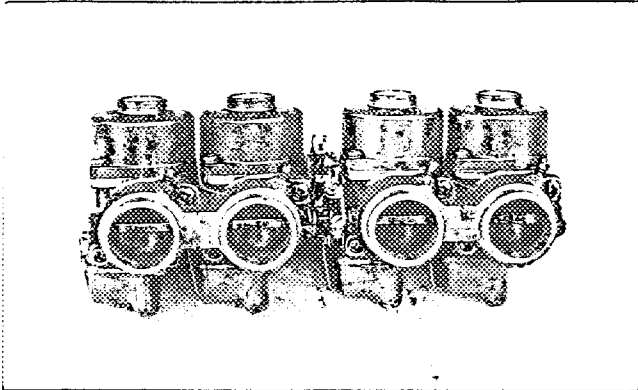
engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.



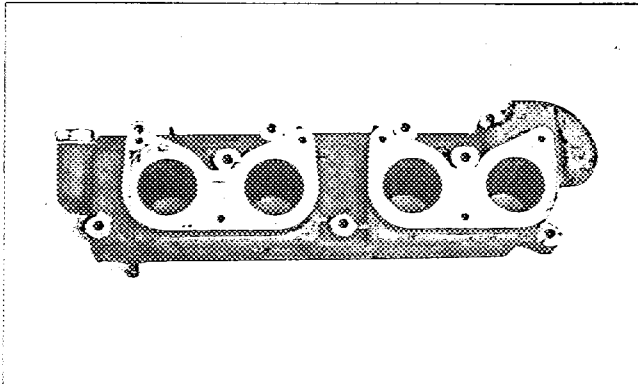
L combustion chamber



N Carburettor (view from side of manifold)

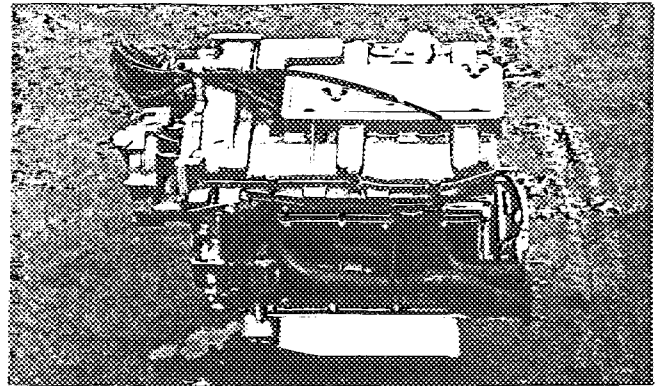


P inlet manifold

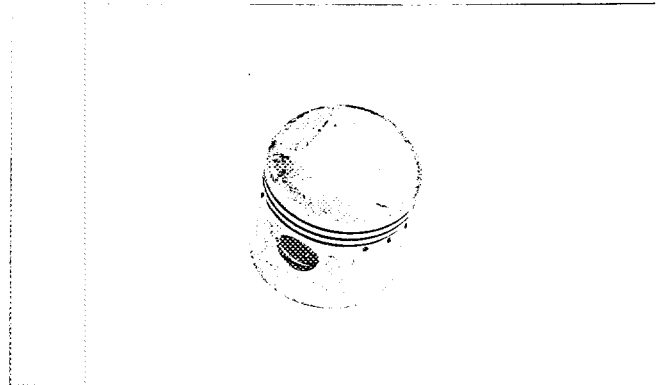


Photograph Model HONDA S800 F.I.A. Rec. No

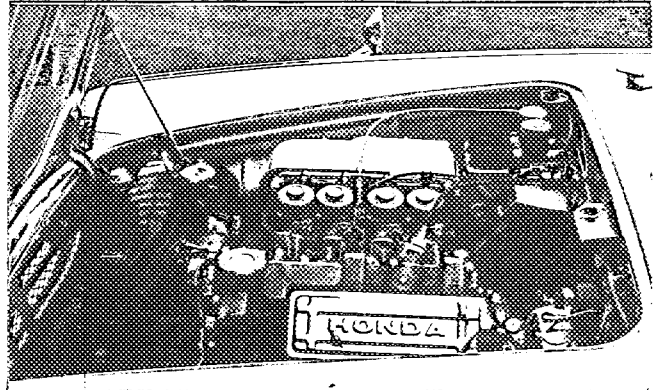
Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



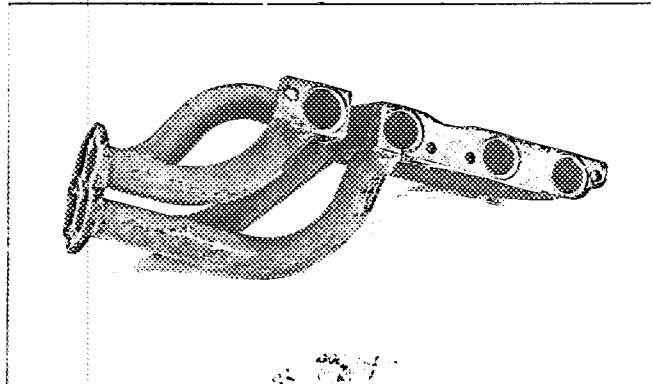
M piston crown



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



Q exhaust manifold



Make HONDA MOTOR CO., LTD.

Model HONDA SSC0

F. I. A. Rec. Rec. No

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)			35	ltrs
	9.25	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				
	705	kg	1,555	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)	— 90.718 kg



Make HONDA MOTOR CO., LTD.

Model HONDA S800

F.I.A. Rec. No

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction : separate / ~~unitary construction~~
21. Unitary construction, material (s)
Separate construction Steel
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) Steel
25. Material (s) of bonnet Steel
26. Material (s) of boot lid Steel
27. Material (s) of rear-window Polyvinyl 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 Polyvinyl Carbonate

ACCESSORIES AND UPHOLSTERY

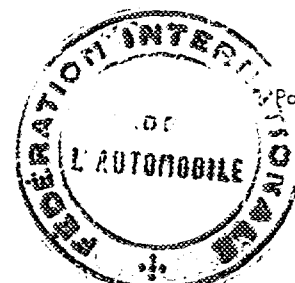
38. Interior heating : ~~yes~~ - no
39. Air-conditioning : ~~yes~~ - no
40. Ventilation : yes - ~~no~~
41. Front seats, type of seat and upholstery Bucket Seat & Vinyl Leather
42. Weight of front seat (s), complete with supports and rails, out of the car :
20,6 kg 45,42 lbs
43. Rear seats, type of seat 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
51. Weight (per wheel, without tyre) 4.2 kg 9.25 lbs
52. Method of attachment 5Hub-Bolts & Nut
53. Rim diameter 329 mm 13 inches
54. Rim width 114 mm 4,5 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 S800

F.I.A. Rec. No

SUSPENSION

- 70. Front suspension (photogr. D), type Independent Wishborn
- 71. Type of spring Torsion Bar
- 72. Stabiliser (if fitted) Torsion Bar
- 73. Number of shockabsorbers 2
- 74. Type Hydraulic Telescopic
- 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 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	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	235	mm	9.10 in.	mm	in.
101. Thickness of disc	6	mm	0.31 in.	mm	in.
102. Length of brake linings	54	mm	2.11 in.	mm	in.
103. Width of brake linings	40	mm	1.50 in.	mm	in.
104. Number of pads per brake	2				
105. Total area per brake	210	mm ²	0.89 sq. in.	mm ²	sq. in.



Make HONDA MOTOR CO., LTD.

Model HONDA S800

F. I. A. Rec. No.

ENGINE (photographs J and K)

130. Cycle 4 131. Number of cylinders 4
132. Cylinder arrangement In line
133. Bore 60 mm 2.36 in. 134. Stroke 70 mm 2.76 in.
135. Capacity per cylinder 197.8 cm³ 12.07 cu. in.
136. Total cylinder-capacity 791 cm³ 48.27 cu. in.
137. Material (s) of cylinder block Aluminium Alloy
138. Material (s) of sleeves (if fitted) Cast iron
139. Cylinder-head, material (s) Aluminium Alloy Number fitted 1
140. Number of inlet ports 4 141. Number of exhaust ports 4
142. Compression ratio 8.8
143. Volume of one combustion chamber 47.5 cm³ 2.90 cu. in.
144. Piston, material Aluminium Alloy 145. Number of rings 3
146. Distance from gudgeon pin centre line to highest point of piston crown
40 mm 1.575 inches
147. Crankshaft : ~~welded~~ / stamped 148. Type of crankshaft : integral / Single-plane-assembly
149. Number of crankshaft main bearings 3
150. Material of bearing cap Steel
151. System of lubrication : ~~oil pump~~ / oil in sump
152. Capacity, lubricant 3.7 ltrs 8.5 pts 3.9 quarts US
153. Oil cooler : ~~yes~~ / no 154. Method of engine cooling Water cooled
155. Capacity of cooling system 5.2 ltrs 9.15 pints 5.49 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 Dia. 44 mm 1.73 in.
159. Connecting rod big end, type Needle roller Dia. 36 mm 1.42 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 16.8 kg (With 37.0 lbs 163. Connecting rod 0.245 kg 0.540 lbs
(F,R bearing holder)
164. Piston with rings and pin 0.258 kg 0.569 lbs



Make HONDA MOTOR CO., LTD.

Model HONDA S800

F. I. A. Rec. No

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 Aluminium Alloy
181. Diameter of valves 35,5 mm 1,40 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 $20^{\circ} \pm 2^{\circ}$
188. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C $10^{\circ} \pm 2^{\circ}$
189. Air filter, type Paper

EXHAUST (see page 4)

195. Material (s) of exhaust manifold Steel pipe
196. Diameter of valves 31,5 mm 1,24 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 $30^{\circ} \pm 2^{\circ}$
203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C $10^{\circ} \pm 2^{\circ}$

CARBURETION (photograph N)

210. Number of carburetors fitted 4
211. Type Side Draft
212. Make KEIHIN SEIKI
213. Model vacuum servo variable venturi CVB36N30A1
214. Number of mixture passages per carburetor 1
215. Flange hold diameter of exit port(s) of carburetor 36 mm 1,42 in.
216. ~~Minimum diameter of nozzle~~ / minimum diam. with piston at maximum height 30 mm 1,18 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 S800

F. I. A. Rec. No.

ENGINE ACCESSORIES

- | | | |
|---|-------------------------------------|---------|
| 230. Fuel pump : mechanical / or electric | 231. No fitted | 1 |
| 232. Type of ignition system BATTERY IGNITION TYPE WITH CONTACT BREAKER | 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 PERFORMANCES (as declared by manufacturer in catalogue)

- | | | |
|---|--|--|
| 250. Max. engine output 70 ps (type of horsepower: JIS) at 8,000 rpm | | |
| 251. Maximum rpm 8,500 output at that figure 68 ps | | |
| 252. Maximum torque 6.7 m-kg at 6,000 rpm | | |
| 253. Maximum speed of the car 160 km/hour 100 miles / hour | | |



Make HONDA MOTOR CO., LTD.

Model HONDA 8800

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 **11.0 cm** in. outside **16.5 cm 6.496 in.**
- 264. Method of operating clutch **Hydraulic**

GEAR BOX (photograph H)

- 270. ~~Method of operation~~ **Manual (Direct shift)**
Manual type, make
- 271. No. of gear-box ratios forward **4 & 5** 272. Synchronized forward ratios **4 (full 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			Automatic			Ratio	Allie No
	Ratio	No.	teeth	Ratio	No.	teeth		
1	3.15	$\frac{38, 28, 21}{22, 14, 23}$					3.20	$\frac{35}{20}$
2	1.93	$\frac{38, 33, 21}{22, 27, 23}$					1.98	$\frac{35}{20}$
3	1.29	$\frac{38, 27, 21}{22, 33, 23}$					1.29	$\frac{35}{20}$
4	0.91	$\frac{21}{23}$					0.91	$\frac{21}{23}$
5								
6								
reverse	3.60	$\frac{38, 32, 21}{22, 14, 23}$					3.65	$\frac{35}{20}$

- 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 , 5.88**
Number of teeth Gear $\frac{41}{13}$, Sprocket $\frac{35}{19}$ & $\frac{32}{17}$ & $\frac{28}{15}$



Make HONDA MOTOR CO., LTD.

Model HONDA S800

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, 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.

WHEELS

50	Type	Pressed Steel			
51	Weight	(Per without tyre)	4.4kg	9.69	lbs
52	Method of attachment		5 Hub-Bolts & Nuts		
53	Rim diameter	329 mm		13	inches
54	Rim Width	127 mm		5	inches

CAPACITIES AND DIMENSIONS

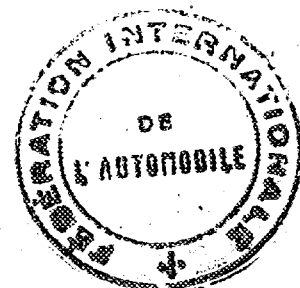
~~Capacity of fuel tank (Reserve included)~~

~~60 ltr~~

~~70 ltr~~

~~13.2 Gallon US~~

~~13.5 Gallon US~~



Make

HONDA MOTOR CO., LTD.

Model

HONDA B800

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

Osamu Hirao

Osamu Hirao

