



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. 7416
Group 2 - Touring Cars

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer	HINO MOTORS, LTD.	Cylinder-capacity	1251 cm ³ 76.34 cuinches
Serial No of chassis	FD100-527860	Model	Contessa 1300S
Serial No of engine	GR100-100710	Manufacturer	HINO MOTORS, LTD
Recognition is valid from	<u>1st February 1966</u>	Manufacturer	HINO MOTORS, LTD
		List	<u>14/2</u>

The manufacturing of the model described in this recognition form was started on September 1965 and the minimum production of 1000 identical cars, in accordance with the specifications of this form was reached on November 1965

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

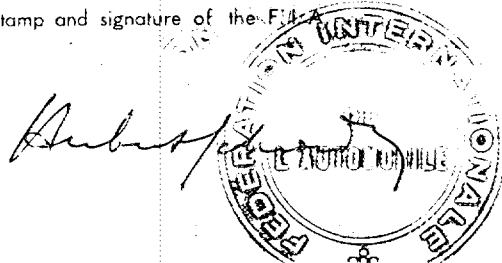
on	19	rec. No	List
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Stamp and signature of the
National Sporting Authority

Kametaro Fujita
Chairman of C.S.



Stamp and signature of the F.I.A.

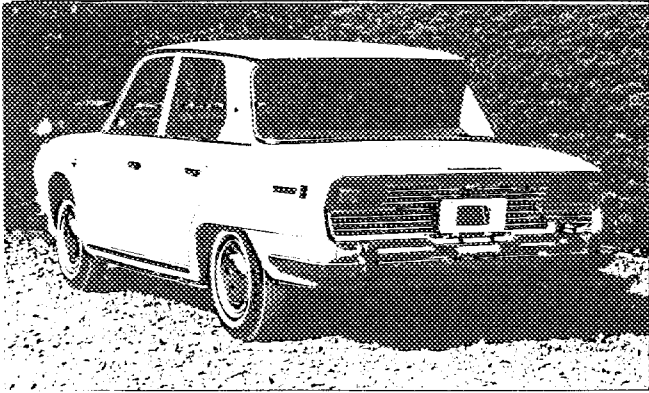


Make HINO

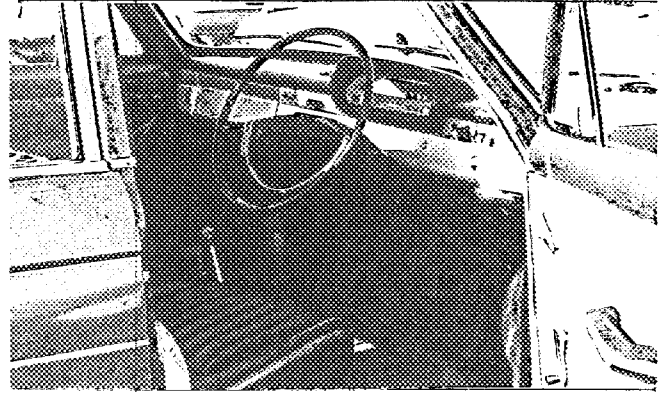
Photograph Model Contessa 1300S

F. I. A. Rec. No

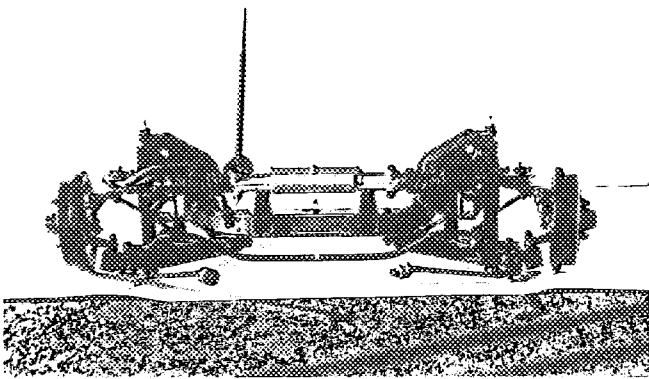
B 3/4 view of car from rear



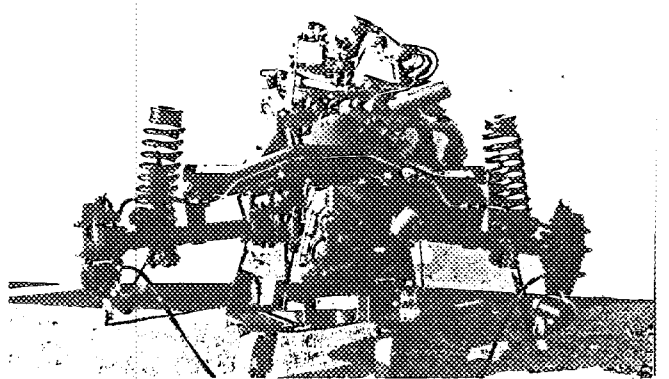
C interior view of car through driver's door (open or removed)



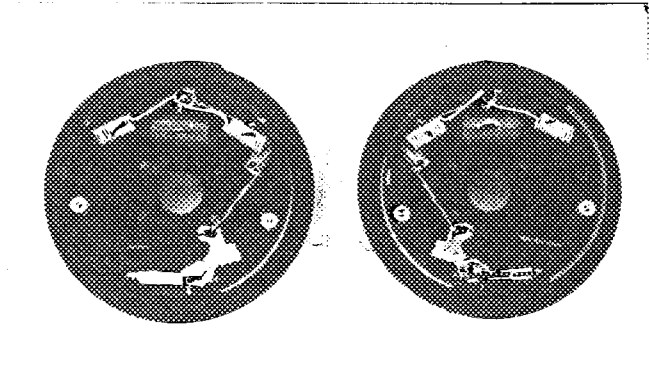
D front axle complete, removed from car. Without wheels.



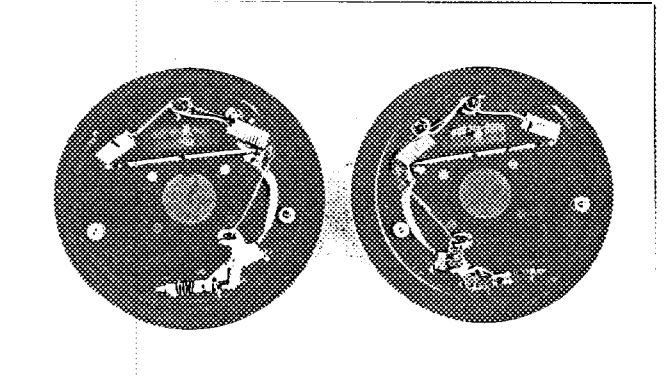
E Rear axle complete without wheels, removed from car.



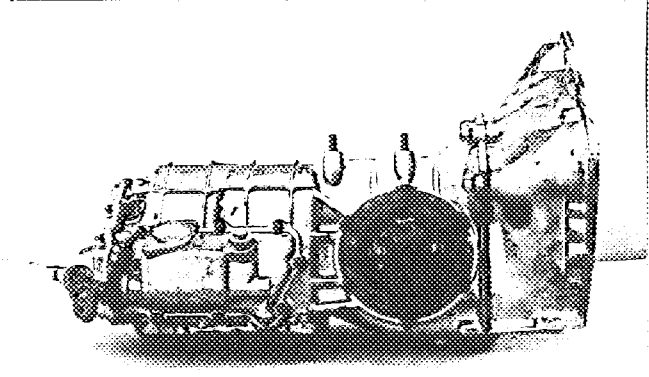
F front brake, drum removed



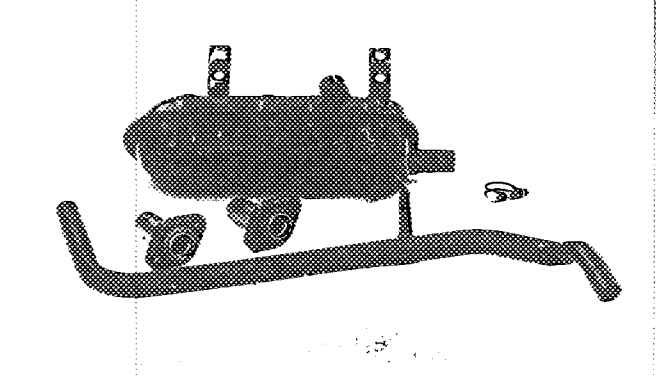
G rear brake, drum removed



H gear-box, view from side



I silencer + exhaust pipes after exhaust manifold.



9

Make HINO

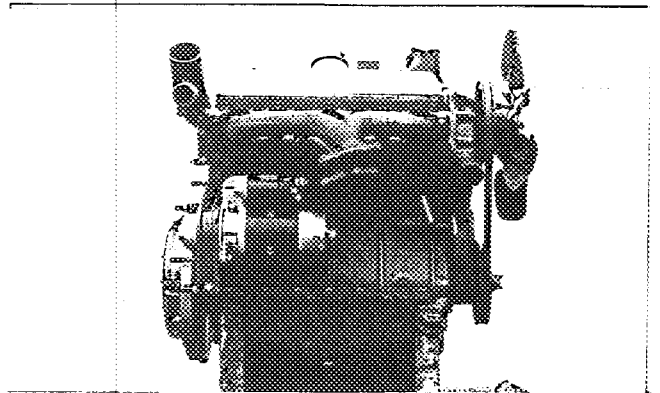
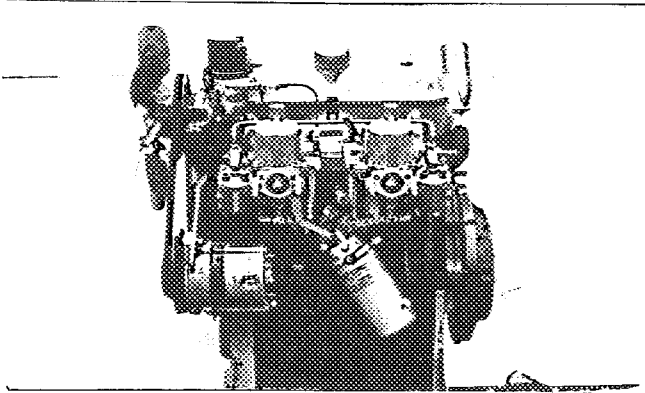
Photograph

Model Contessa 1300S

F. I. A. Rec. No

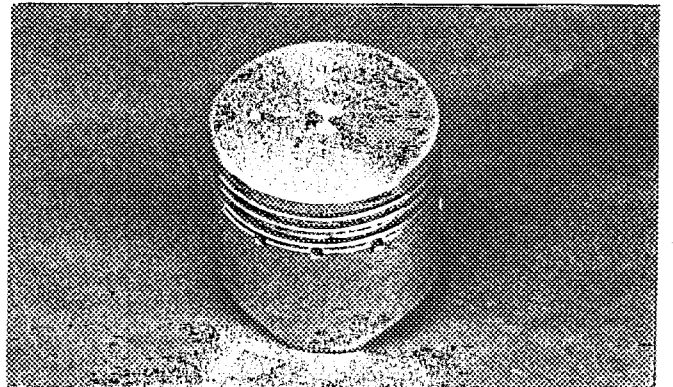
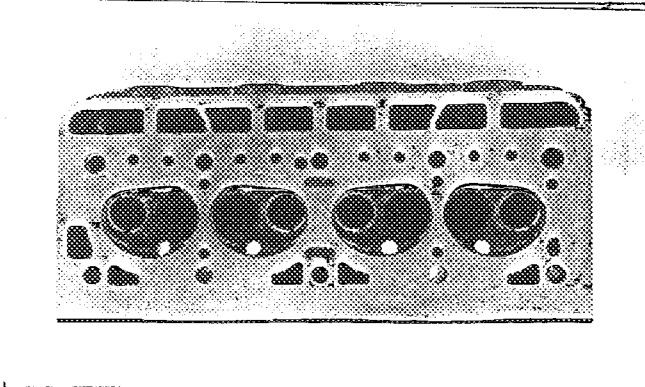
J engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.

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



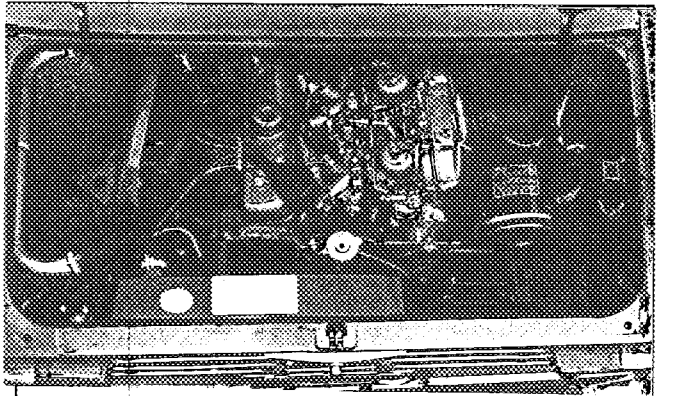
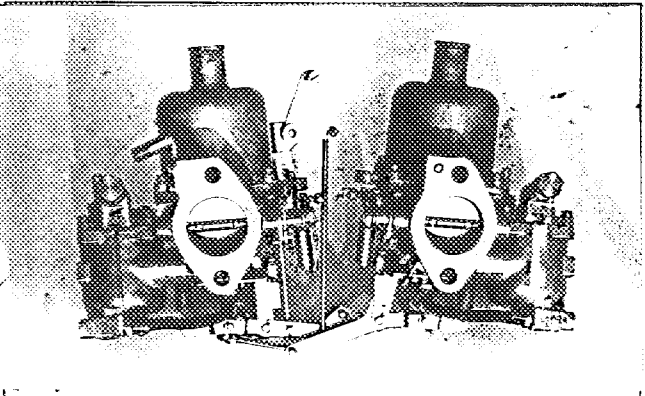
L combustion chamber

M piston crown



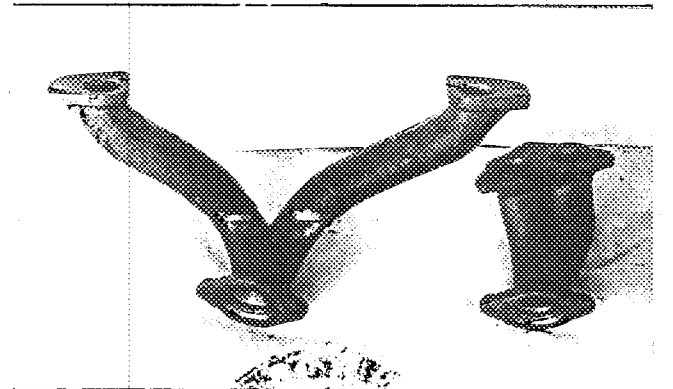
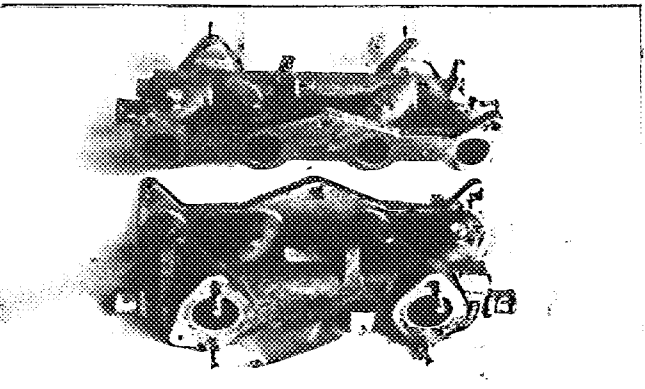
N Carburettor (view from side of manifold)

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



P inlet manifold

Q exhaust manifold



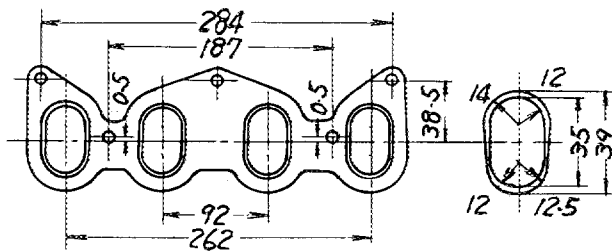
4

Make HINO

Model Contessa 1300S

F. I. A. Rec. No

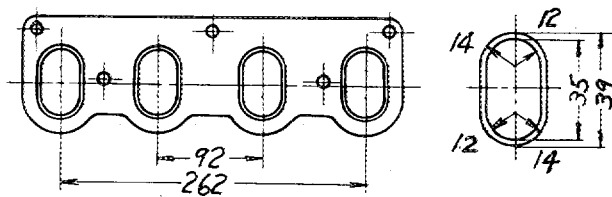
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



General tolerance

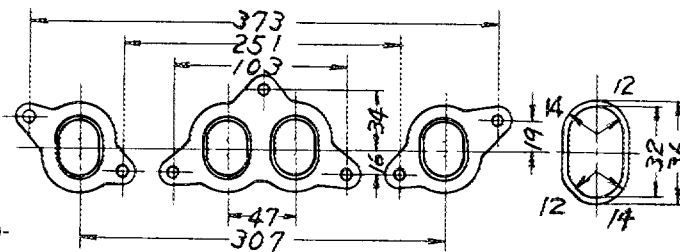
Machined	+1 -0
Non-machined	+3 -1.5

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



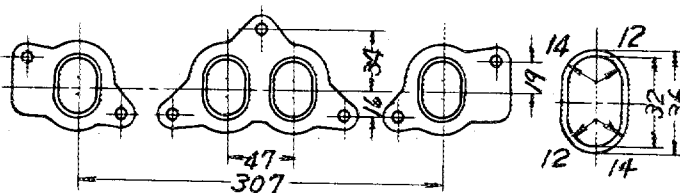
Machined	+1 -0
Non-machined	+3 -1.5

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

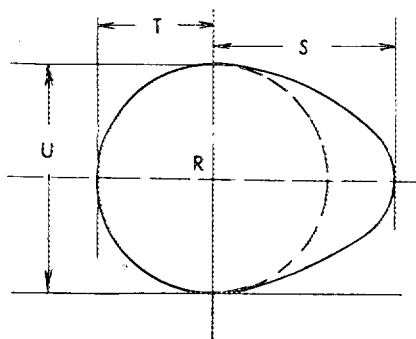


Machined	+1 -0
Non-machined	+3 -1.5

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



Machined	+1 -0
Non-machined	+3 -1.5



R=centre of camshaft.

Inlet cam

S =	21.5	mm	0.85	inches
T =	15.7	mm	0.62	inches
U =	31.5	mm	1.24	inches

Exhaust cam

S =	21.5	mm	0.85	inches
T =	15.7	mm	0.62	inches
U =	31.5	mm	1.24	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.

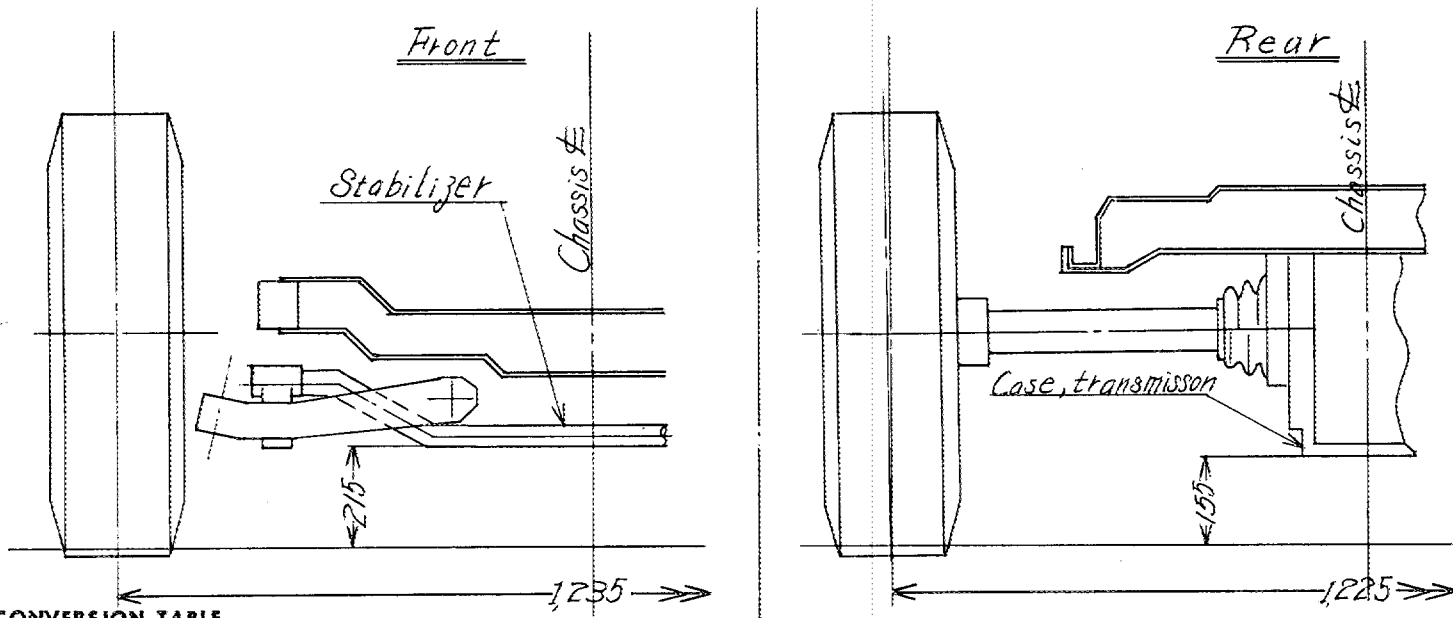
CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2280	mm	89.8	inches
2. <u>Front track</u>	1235	mm	48.7	inches *
3. <u>Rear track</u>	1225	mm	48.3	inches *
4. Overall length of the car	415	cm	163.4	inches
5. Overall width of the car	153	cm	60.3	inches
6. Overall height of the car	138,5	cm	54.6	inches
7. <u>Capacity of fuel tank</u> (reserve included)			34	l trs
	9.0	Gallon US		Gallon Imp.
8. Seating capacity	4			
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools				
	905	kg	1995	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	l trs
1 foot / pied	—	30.4794	cm	1 pint (pt)	—	0.568	l trs
1 square inch / pouce carré	—	6.452	cm ²	1 gallon imp.	—	4.546	l trs
1 cubic inch / pouce cube	—	16.387	cm ³	1 gallon US	—	3.785	l trs
1 pound / livre (lb)	—	453.593	gr.	1 hundred weight (cwt)	—	50.802	kg



F

Make **HINO**

Model **Contessa 1300S**

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) **Steel**
Separate construction
- 22. Material (s) of chassis
- 23. Material (s) of coachwork
- 24. Number of doors **4** Material (s) **Steel, Plastics etc.**
- 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 **Manual, Vertical**
- 32. Material (s) of rear-quarter light **Glass**

ACCESSORIES AND UPHOLSTERY

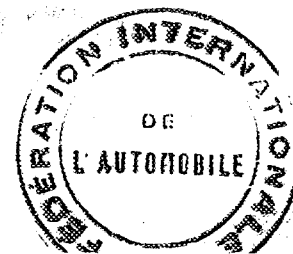
- 38. Interior heating : ~~YES~~ - no
- 39. Air-conditioning : ~~YES~~ - no
- 40. Ventilation : ~~YES~~ - ~~YES~~
- 41. Front seats, type of seat and upholstery **Separate type, vinyl and fabric**
- 42. Weight of front seat (s) complete with supports and rails, out of the car :
15.5 kg X 2 lbs
- 43. Rear seats, type of seat and upholstery **Bench type, vinyl and fabric**
- 44. Front bumper, material (s) **Steel** Weight **7.1 kg** inches
- 45. Rear bumper, material (s) **Steel** Weight **7.2 kg** inches

WHEELS

- 50. Type **Pressed Steel**
- 51. Weight (per wheel, without tyre) **5.8 kg** lbs
- 52. Method of attachment **4 nuts clamped**
- 53. Rim diameter **329.4 mm** **13 inches**
- 54. Rim width **144 mm** **4.5 inches**

STEERING

- 60. Type **Rack and Pinion**
- 61. Servo-assistance : ~~YES~~ - no
- 62. Number of turns of steering wheel from lock to lock **3.8**
- 63. In case of servo-assistance



GT

Make HINO

Model Contessa 1300S

F.I.A. Rec. No

SUSPENSION

- 70. Front suspension (photogr. D), type Independent, wishbone type.
- 71. Type of spring Torsion bar
- 72. Stabiliser (if fitted) Torsion bar
- 73. Number of shockabsorbers 2
- 74. Type Telescopic, hydraulic double acting.
- 78. Rear suspension (photogr. E), type Independent, swing axle type with single radius arm.
- 79. Type of spring Coil
- 80. Stabiliser (if fitted)
- 81. Number of shockabsorbers 2
- 82. Type Telescopic, hydraulic double acting.

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)	mm	13/16 in.	mm	13/16 in.
Drum brakes				
95. Inside diameter	228.5	mm in.	228.5	mm in.
96. Length of brake linings	249/219	mm in.	249 219	mm in.
97. Width of brake linings	35	mm in.	35	mm in.
98. Number of shoes per brake	2		2	
99. Total area per brake	16400	mm ² sq. in.	16400	mm ² 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.



7

Make HINO

Model Contessa 1300S

F. I. A. Rec. No.

ENGINE (photographs J and K)

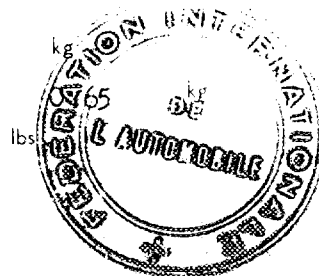
130. Cycle	4	131. Number of cylinders	4
132. Cylinder arrangement	In line		
133. Bore	71 mm	134. Stroke	79 mm
	2.80 in.		3.11 in.
135. Capacity per cylinder	312.8	cm ³	19.09
			cu. in.
136. Total cylinder-capacity	1251	cm ³	76.34
			cu. in.
137. Material (s) of cylinder block	Cast iron		
138. Material (s) of sleeves (if fitted)	Cast iron		
139. Cylinder-head, material (s)	Aluminium	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	35.2	cm ³	cu. in.
144. Piston, material	Aluminium	145. Number of rings	3
146. Distance from gudgeon pin centre line to highest point of piston crown	35.5 mm		inches
147. Crankshaft : moulded / stamped		148. Type of crankshaft :	integral /
149. Number of crankshaft main bearings	5		
150. Material of bearing cap	Cast iron		
151. System of lubrication : dry sump / oil in sump			
152. Capacity, lubricant	3.0	ltrs	pts
			quarts US
153. Oil cooler : yes / no		154. Method of engine cooling	Water cooled
155. Capacity of cooling system	7.1	ltrs	pints
			quarts US
156. Cooling (if fitted), dia.	34	cm	inches
157. Number of blades of cooling fan	6		

Bearings

158. Crankshaft main, type	Plane	Dia.	50	mm	in.
159. Connecting rod big end, type	Plane	Dia.	47.5	mm	in.

Weights

160. Flywheel (clean)	6.1	kg	lbs
161. Flywheel with clutch (all turning parts)			10.9
162. Crankshaft	10.6	kg	lbs
163. Connecting rod			0.28
164. Piston with rings and pin	0.28	kg	lbs



7

Make HINO

Model Contessa 1300S

F. I. A. Rec. No

FOUR STROKE ENGINES

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

INLET (see page 4) *

- 180. Material(s) of inlet manifold Aluminium
- 181. Diameter of valves 36 mm 1.42 inches
- 182. Max. valve lift 9.0 mm 0.35 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) 0.26 mm inches
- 187. Valves open at (With tolerance for tappet clearance indicated) B.T.D.C $22^\circ \pm 2.5^\circ$
- 188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C $54^\circ \pm 2.5^\circ$
- 189. Air filter, type Dry paper element

EXHAUST (see page 4)

- 195. Material (s) of exhaust manifold Cast iron
- 196. Diameter of valves 32 mm 1.26 inches
- 197. Max. valve lift 9.0 mm 0.35 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) 0.36 mm inches
- 202. Valves open at (with tolerance for tappet clearance indicated) B.B.D.C $60^\circ \pm 2.5^\circ$
- 203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C $16^\circ \pm 2.5^\circ$

CARBURETION (photograph N)

- 210. Number of carburetors fitted 2 211. Type Horizontal draft, variable venturi
- 212. Make HITACHI 213. Model HJF38W
- 214. Number of mixture passages per carburetor 1
- 215. Flange hold diameter of exit port(s) of carburetor 38 mm in.
- 216. ~~Maximum diameter~~ / minimum diam. with piston at maximum height 29.3 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



Make HINO

Model Contessa 1300S

F.I.A. Rec. No.

ENGINE ACCESSORIES

230. Fuel pump : ~~mechanical~~ / ~~electric~~ **Contact breaker and ignition coil**
231. No fitted 1
232. Type of ignition system **ignition coil**
233. No of distributors 1
234. No of ignition coils 1
235. No of spark plugs per cylinder 1
236. Generator, type: ~~dyno~~/alternator-number fitted 1
237. Method of drive **V- Belt**
238. Voltage of generator 12 volts
239. Battery, number 1
240. Location **Front trunk**
241. Voltage of battery 12 volts

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

250. Max. engine output 65 PS (type of horsepower: JIS) at 5500 rpm
251. Maximum rpm 5800 output at that figure 63 PS
252. Maximum torque 10.0 m³-kg at 3800 rpm
253. Maximum speed of the car 145 km/hour miles / hour



Make HINO

Model Contessa 1300S

F. I. A. Rec. No

DRIVE TRAIN

CLUTCH

- 260. Type of clutch Diaphragm Spring strap drive
- 261. No. of plates 1
- 262. Dia. of clutch plates 20 cm inches
- 263. Dia. of linings, inside 13 cm in. outside 20 cm in.
- 264. Method of operating clutch Hydraulic

GEAR BOX (photograph H)

- 270. Manual type, make HINO
- 271. No. of gear-box ratios forward 4
- 272. Synchronized forward ratios 4
- 273. Location of gear-shift Floor
- 274. Automatic, make type
- 275. No. of forward ratios
- 276. Location of gear-shift

277.	Manual		Automatic		Ratio	Alternative manual/ automatic		Ratio	No. teeth
	Ratio	No. teeth	Ratio	No. teeth		No. teeth	No. teeth		
1	3.70	37/10			3.44	38/11			
2	2.12	34/16			1.89	34/18			
3	1.46	35/24			1.37	34/25			
4	0.97	28/29			1.11	30/27			
5									
6									
reverse	3.09	34/11			3.09	34/11			

- 278. Overdrive, type
- 279. Forward gears on which overdrive can be selected
- 280. Overdrive ratio

FINAL DRIVE

- 290. Type of final drive Hypoid gear and pinion
- 291. Type of differential Bevel gear
- 292. Type of limited slip differential (if fitted)
- 293. Final drive ratio 4.11
- Number of teeth 37/9



Make HINO

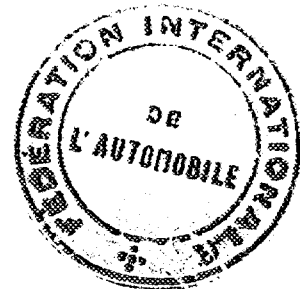
Model Contessa 1300S

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.



Make HINO

Model Contessa 1300S

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.

30. Supercharging—state full details hereafter :

JAPAN AUTOMOBILE FEDERATION

Chairman

of Technical Subcommittee

Usamu Hirao