



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. **5305**
Group **1 - Series - Production**

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer **FUJI HEAVY INDUSTRIES LTD.**

Serial No of chassis **A14-500002**

Serial No of engine **EA61-76113**

Recognition is valid from **1st July 1969**

The manufacturing of the model described in this recognition form was started on **Jan. 19 69** and the minimum production of **5000** identical cars, in accordance with the specifications of this form was reached on **Apr. 19 69**

Cylinder-capacity **1088** cm³ **66.4** cu. in.

Model **A14 (SUBARU FF-1)**

Manufacturer **FUJI HEAVY INDUSTRIES LTD.**

Manufacturer **FUJI HEAVY INDUSTRIES LTD.**

List **1969/5**

Photograph A, 3/4 view of car from front



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

John B. Clonan
Secretary

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
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on	19	rec. No.	List

Schmidt

Stamp and signature of the
National Sporting Authority



Stamp and signature of the F. I. A.

[Signature]

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Make **FUJI**

Model **A14**

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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.

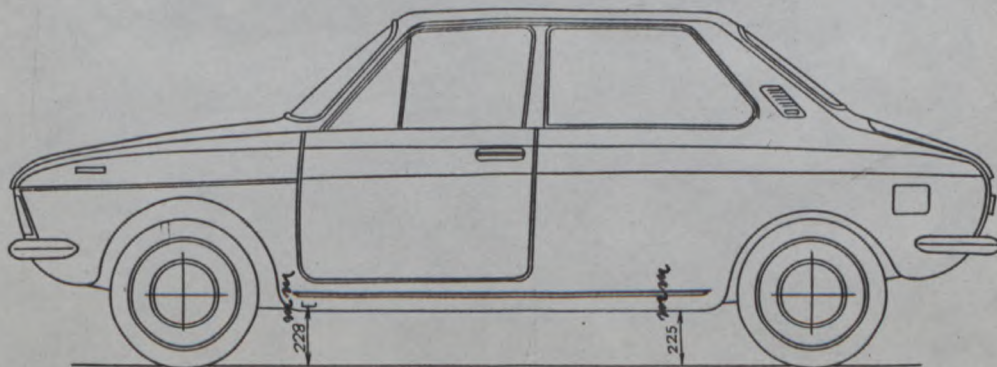
CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2420	mm	95.3	inches
2. <u>Front track</u>	1225	mm	48.2	inches *
3. <u>Rear track</u>	1210	mm	47.7	inches *
4. Overall length of the car		390.0	cm	inches
5. Overall width of the car		148.0	cm	inches
6. Overall height of the car		139.0	cm	inches
7. <u>Capacity of fuel tank</u> (reserve included)				36 ltrs
	9.5	Gallon US		Gallon Imp.
8. Seating capacity	5			
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:				
	625	kg	1378	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 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 kg

SUSPENSION

- 70. Front suspension (photogr. D), type Independent. (Wishbone)
- 71. Type of spring Torsion bar.
- 72. Stabiliser (if fitted)
- 73. Number of shockabsorbers 2
- 74. Type Hydraulic, Telescopic.
- 78. Rear suspension (photogr. E), type Independent. (Trailing arm)
- 79. Type of spring Torsion bar and Coil spring.
- 80. Stabiliser (if fitted)
- 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 1

	FRONT		REAR	
	1		1	
93. Number of cylinders per wheel				
94. Bore of wheel cylinder (s)	23.81 mm	in.	15.88 mm	in.
Drum brakes				
95. Inside diameter	203.2 mm	in.	180 mm	in.
96. Length of brake linings	195 mm	in.	141 mm	in.
97. Width of brake linings	45 mm	in.	35 mm	in.
98. Number of shoes per brake	2		2	
99. Total area per brake	17550 mm ²	sq. in.	9870 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.

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ENGINE (photographs J and K)

- 130. Cycle 4
- 131. Number of cylinders 4
- 132. Cylinder arrangement **Horizontally opposed.**
- 133. Bore 76 mm 2.99 in. 134. Stroke 60 mm 2.36 in.
- 135. Capacity per cylinder 272 cm³ 16.6 cu. in.
- 136. Total, cylinder-capacity 1088 cm³ 66.4 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 2
- 140. Number of inlet ports 1 per cylinder. 141. Number of exhaust ports 1 per cylinder.
- 142. Compression ratio 9.0 : 1
- 143. Volume of one combustion chamber 28.2 cm³ 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
32.5 mm inches
- 147. Crankshaft : ~~moulded~~ / stamped 148. Type of crankshaft : integral / —
- 149. Number of crankshaft main bearings 3
- 150. Material of bearing cap
- 151. System of lubrication : ~~dry sump~~ / oil in sump
- 152. Capacity, lubricant 3.6 ltrs pts quarts US
- 153. Oil cooler : ~~yes~~ / no 154. Method of engine cooling **Water.**
- 155. Capacity of cooling system 5.6 ltrs pints quarts US
- 156. Cooling fan (if fitted), dia. cm inches
- 157. Number of blades of cooling fan

Bearings

- 158. Crankshaft main, type **Plain.** Dia. 50 mm in.
- 159. Connecting rod big end, **Plain.** Dia. 45 mm in.

Weights

- 160. Flywheel (clean) 6.95 kg lbs
- 161. Flywheel with clutch (all turning parts) 10.65 kg lbs
- 162. Crankshaft 6.55 kg
- 163. Connecting rod 0.35 kg lbs
- 164. Piston with rings and pin 0.33 kg lbs

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FOUR STROKE ENGINES

- 170. Number of camshafts **1** 171. Location **Crank case.**
- 172. Type of camshaft drive **Gear drive.**
- 173. Type of valve operation **Pushrods and rockers.**

INLET (see page 8) *

- 180. Material(s) of inlet manifold **Aluminium alloy.**
- 181. Diameter of valves **32** mm **1.26** inches
- 182. Max. valve lift **7** mm **0.28** in. 183. Number of valve springs **2**
- 184. Type of spring **Coil spring.** 185. Number of valves per cylinder **1**
- 186. Tappet clearance for checking timing (cold) **0.22** mm **inches**
- 187. Valves open at (with tolerance for tappet clearance indicated) **20° ± 5° (B.T.D.C.)**
- 188. Valves close at (with tolerance for tappet clearance indicated) **60° ± 5° (A.B.D.C.)**
- 189. Air filter, type **Dry.**

EXHAUST (see page 8)

- 195. Material (s) of exhaust manifold **Steel.**
- 196. Diameter of valves **27.6** mm **1.09** inches
- 197. Max. valve lift **7** mm **0.28** in. 198. Number of valve springs **2**
- 199. Type of spring **Coil spring.** 200. Number of valves per cylinder **1**
- 201. Tappet clearance for checking timing (cold) **0.27** mm **inches**
- 202. Valves open at (with tolerance for tappet clearance indicated) **60° ± 5° (B.B.D.C.)**
- 203. Valves close at (with tolerance for tappet clearance indicated) **20° ± 5° (A.T.D.C.)**

CARBURETION (photograph N)

- 210. Number of carburetors fitted **1** 211. Type **Down draft.**
- 212. Make **Hitachi LTD.** 213. Model **DCG 286**
- 214. Number of mixture passages per carburetor **2**
- 215. Flange hole diameter of exit port(s) of carburetor **Pri. 26, Secon. 28** mm **in.**
- 216. Minimum dimensions of mixture passage (s) ~~with piston at max. height (example SU)~~
Pri. 19. Secon. 25 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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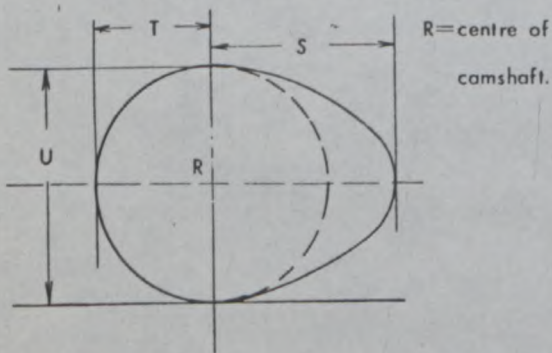
ENGINE ACCESSORIES

- 230. Fuel pump : ~~mechanical 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 **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 **62 PS** (type of horsepower: **JIS.**) at **6000** rpm
- 251. Maximum rpm **6500** output at that figure **60 PS**
- 252. Maximum torque **8.7 kg-m** at **3200** rpm
- 253. Maximum speed of the car **145** km/hour **miles / hour**

255.



Inlet cam

S =	18.9	mm	0.74	inches
T =	13.5	mm	0.53	inches
U =	27.0	mm	1.06	inches

Exhaust cam

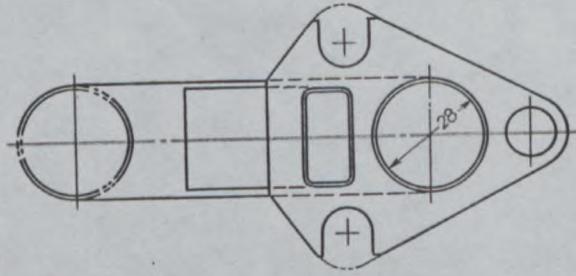
S =	18.9	mm	0.74	inches
T =	13.5	mm	0.53	inches
U =	27.0	mm	1.06	inches

Make **FUJI**

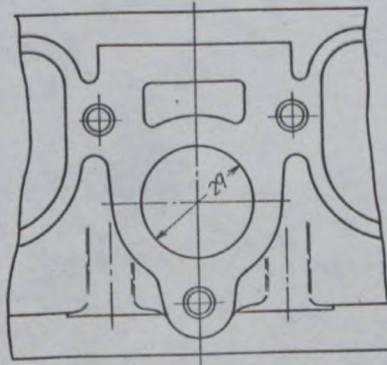
Model **A14**

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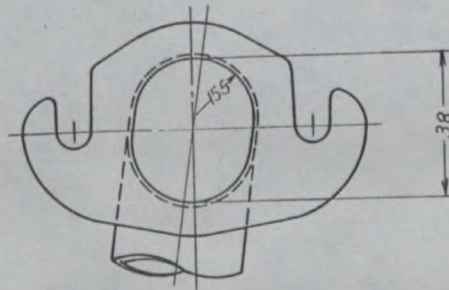
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



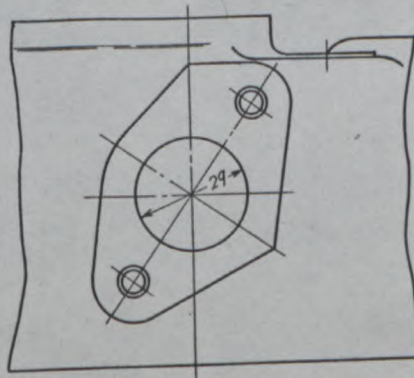
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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.



Unit : mm

Tolerance : ± 1.5

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DRIVE TRAIN

CLUTCH

- 260. Type of clutch **Dry plate.**
- 261. No. of plates **1**
- 262. Dia. of clutch plates **18.4** cm inches
- 263. Dia. of linings, inside **12.5** cm in. outside **18.0** cm in.
- 264. Method of operating clutch **Mechanical.**

GEAR BOX (photograph H)

- 270. Manual type, make **FUJI HEAVY INDUSTRIES LTD.** Method of operation **Mechanical.**
- 271. No. of gear-box ratios forward **4**
- 272. Synchronized forward ratios **1,2,3,4**
- 273. Location of gear-shift **Column.**
- 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	Ratio	No. teeth
1	3.540	39/11						
2	2.235	38/17						
3	1.542	37/24						
4	1.033	31/30						
5								
6								
reverse	4.100	41/19/10						

- 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 **4.125**
- Number of teeth **33/8**

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Photograph

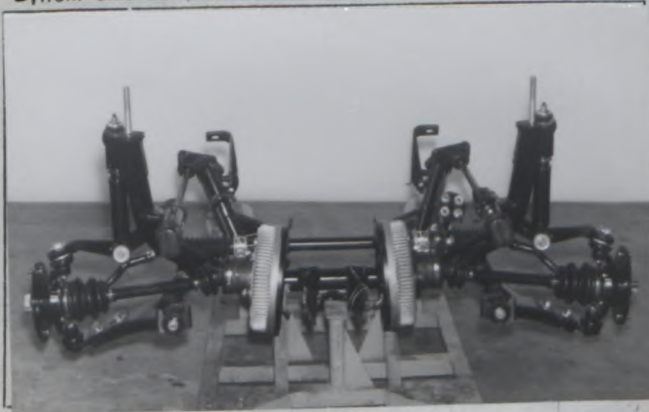
B, 3/4 view of car from rear



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.



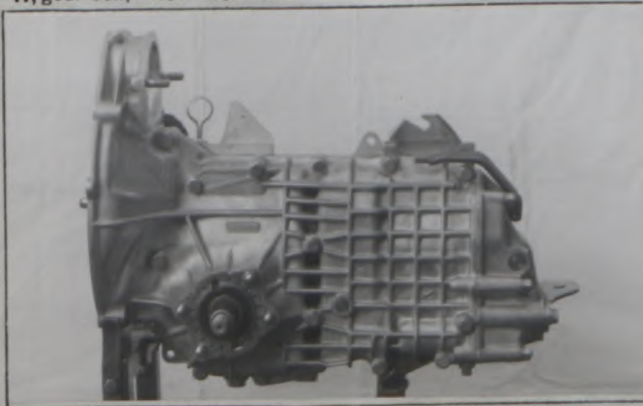
F, front brake, drum removed or disc with caliper(s)



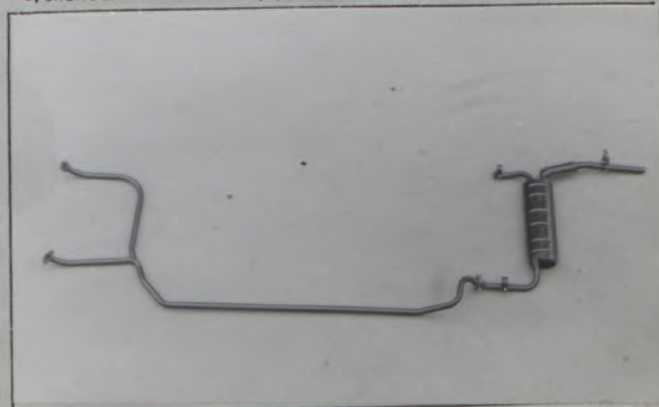
G, rear brake, drum removed or disc with caliper(s)



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold.



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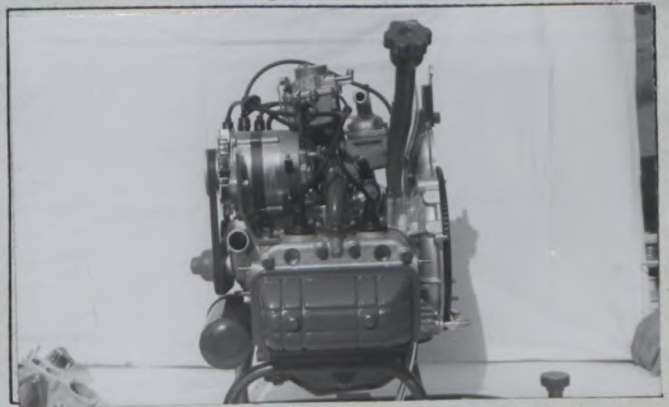
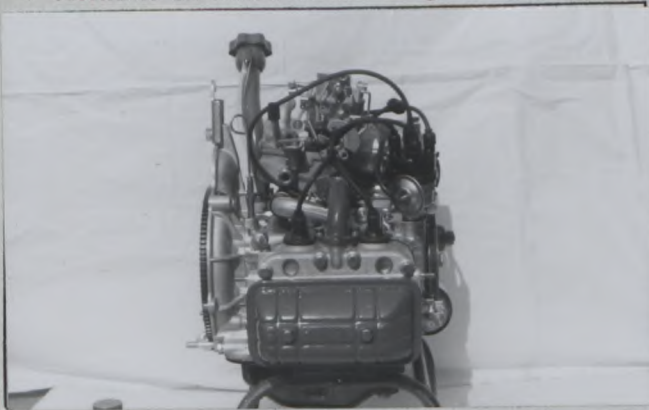
Photograph

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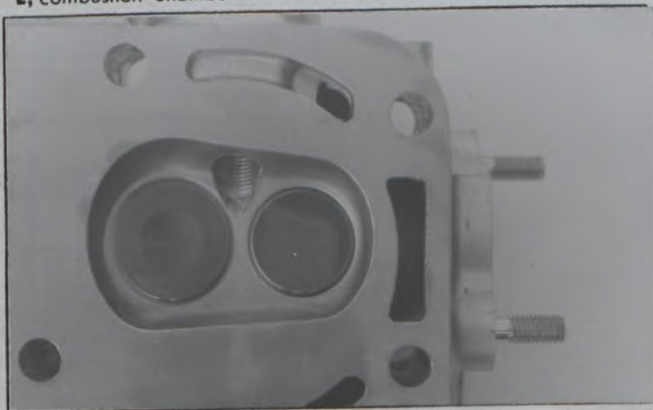
engine unit out of car, from right. With clutch and J, accessories but without air filter nor gear-box.

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



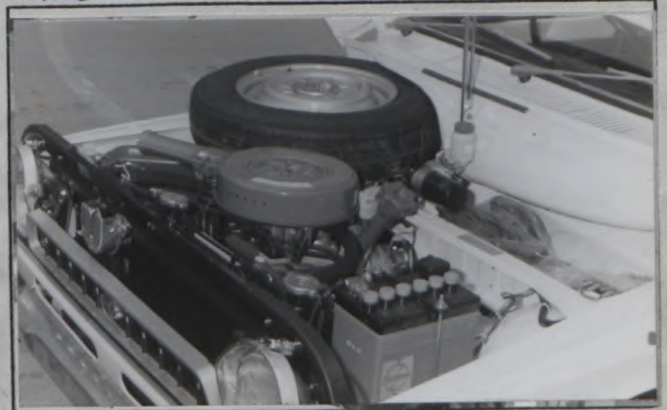
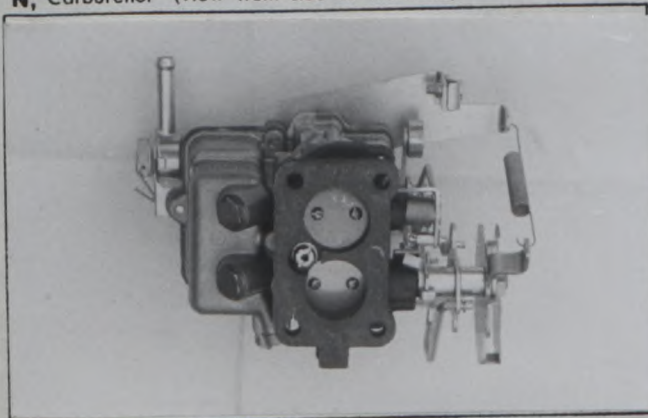
L, combustion chamber

M, piston crown



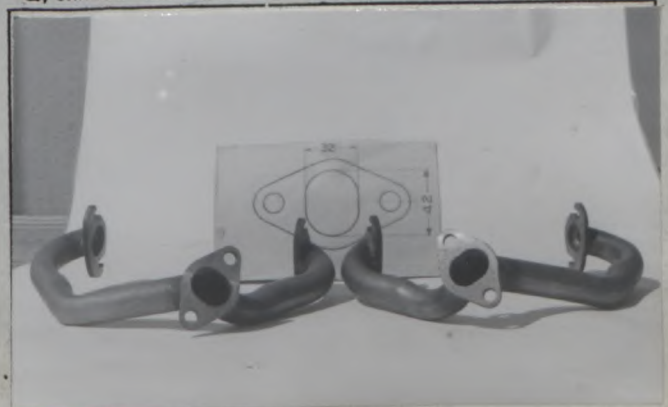
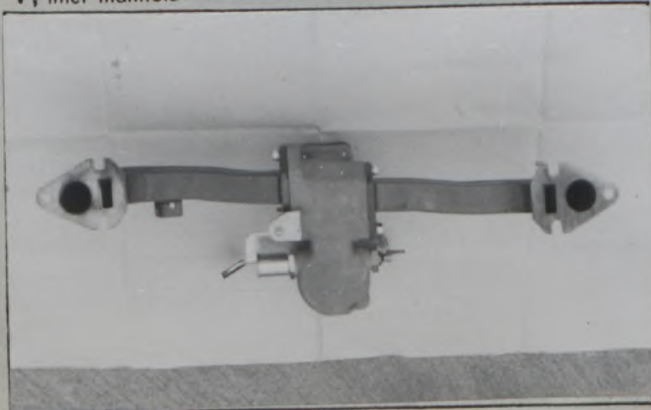
N, Carburettor (view from side of manifold)

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



P, inlet manifold

Q, exhaust manifold



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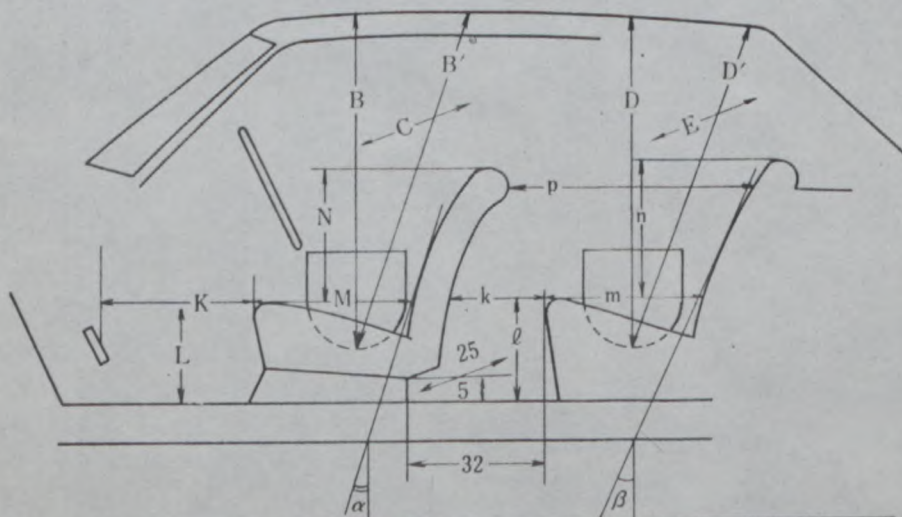
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DIMENSIONS OF INTERIOR
(Conform to Art. 253 b of Appendix J)

For four seaters :



Minimum Dimensions (cm)							
B	B'	α	C	D	D'	β	E
93	98	15°	125	95	97	23°	125

Minimum Dimensions (cm)										
L	ℓ	M	m	N	n	k+m	p	k	k+l+m	K+L+M
35	35	46	43	42	41	65	69	22	100	124
0.9L = 31.5		0.85M = 39.1		0.8N = 33.6		0.8(k+m) = 52.0		(15)	(95)	(120)

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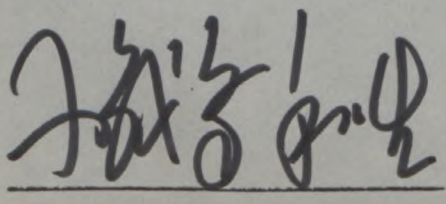
F. I. A. Rec. No.

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



Kazunari Komotori