



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No.

5370

Group

1

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 **A15-002001**

engine **EA62-148249**

Recognition is valid from **1/10/70**

Cylinder-capacity 1267 cm³ 77.3 cu. in.

Model **A15 (SUBARU FF-1G)**

Manufacturer **FUJI HEAVY INDUSTRIES, LTD.**

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List **70/10**

The manufacturing of the model described in this recognition form was started on **Feb. 1970** and the minimum production of **5000** identical cars, in accordance with the specifications of this form was reached on **Jul. 1970.**

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

Stamp and signature of the F. I. A.

IMPORTANT - the underlined items must be stated in two measuring systems, one of which must be the metric system. See conversion table hereafter.

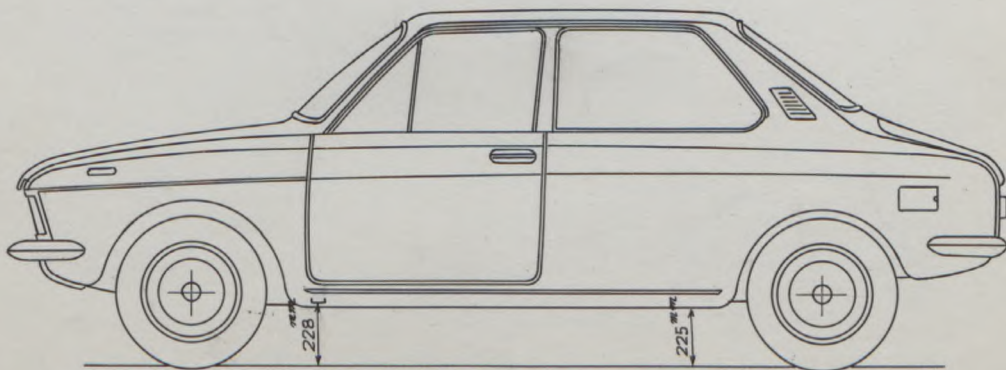
CAPACITIES AND DIMENSIONS

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)				45 ltrs
	11.9	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:				
	645	kg		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.

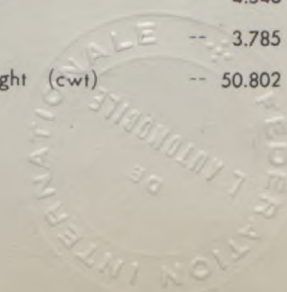
Specify ground clearance in relation to the track and give drawing of two fixed points of the vehicle's structure at which measurements are taken.

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 carre	-- 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



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
- 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
- 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 **Bench, Vinyl.**
- 42. Weight of front seat (s), complete with supports and rails, out of the car :
21.5 kg **lbs**
- 43. Rear seats, type of seats and upholstery **Bench, Vinyl.**
- 44. Front bumper, material (s) **Steel.** **Weight 2.9 kg lbs**
- 45. Rear bumper, material (s) **Steel.** **Weight 3.0 kg lbs**

WHEELS

- 50. Type **Pressed steel.**
- 51. Weight (per wheel, without tyre) **4.7 kg lbs**
- 52. Method of attachment **Wheel nut (4 nuts)**
- 53. Rim diameter **330 mm** **13 inches**
- 54. Rim width **102 mm** **4 inches**

STEERING

- 60. Type **Rack and pinion.**
- 61. Servo-assistance : ~~yes~~ - **no**
- 62. Number of turns of steering wheel from lock to lock **3.3**
- 63. In case of servo-assistance



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
- 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)	23.8	mm	15.9	mm
				in.
Drum brakes				
95. Inside diameter	203.2	mm	180	mm
				in.
96. Length of brake linings	195	mm	141	mm
				in.
97. Width of brake linings	45	mm	30	mm
				in.
98. Number of shoes per brake	2		2	
99. Total area per brake	17550	mm ²	8460	mm ²
				sq. in.
Disc brakes				
100. Outside diameter		mm		mm
				in.
101. Thickness of disc		mm		mm
				in.
102. Length of brake linings		mm		mm
				in.
103. Width of brake linings		mm		mm
				in.
104. Number of pads per brake.				
105. Total area per brake		mm ²		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 82 mm 3.23 in. 134. Stroke 60 mm 2.36 in.
- 135. Capacity per cylinder 317 cm³ 19.4 cu. in.
- 136. Total cylinder-capacity 1267 cm³ 77.3 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 31.3 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 : ~~cast~~ / 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 3.5 ltrs pts quarts US
- 153. Oil cooler : ~~yes~~ / no 154. Method of engine cooling Water.
- 155. Capacity of cooling system 6.0 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) 8.5 kg lbs
- 161. Flywheel with clutch (all turning parts) 12.47 kg lbs
- 162. Crankshaft 6.89 kg lbs 163. Connecting rod 0.38 kg lbs
- 164. Piston with rings and pin 0.42 kg lbs



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 **8** mm **0.315** in.
- 183. Number of valve springs **2**
- 184. Type of spring **Coil spring.**
- 185. Numbr of valves per cylinder **1**
- 186. Tappet clearance for checking timing (cold) **0.3** mm **inches**
- 187. Valves open at (with tolerance for tappet clearance indicated) **24° ± 5° (B.T.D.C.)**
- 188. Valves close at (with tolernce for tappet clearance indicated) **64° ± 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 **8** mm **0.315** 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) **0.3** mm **inches**
- 202. Valves open at (with tolerance for tappet clearance indicated) **70° ± 5° (B.B.D.C.)**
- 203. Valves close at (with tolerance for tappet clearance indicated) **18° ± 5° (A.T.D.C.)**

CARBURETION (photograph N)

- 210. Number of carburettors fitted **1**
- 211. Type **Down draft.**
- 212. Make **Hitachi LTD.**
- 213. Model **DCG 306**
- 214. Number of mixture passages per caburettor **2**
- 215. Flange hole diameter of exit port(s) of carburetteor **Pri. 26, Secon. 30** mm **in.**
- 216. Minimum dimensions of mixture pasage (s) ~~with piston at max. height to example SU~~
Pri. 20 Secon. 27 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. locafion 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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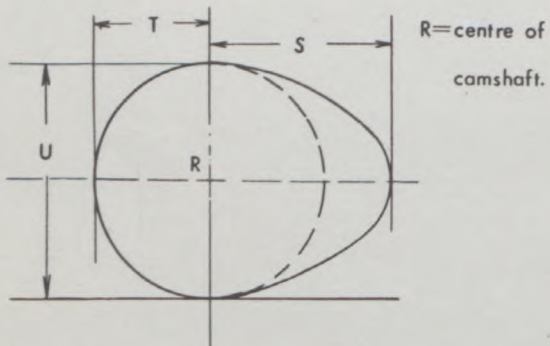
ENGINE ACCESSORIES

- 230. Fuel pump : ~~mechanical and / or~~ electric
- 231. No. fitted 1
- 232. Type of ignition system Make and Break.
- 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 80 PS (type of horsepower: JIS) at 6400 rpm
- 251. Maximum rpm 6800 output at that figure 78 PS
- 252. Maximum torque 10.1 Kg-m at 4000 rpm
- 253. Maximum speed of the car 160 km/hour miles / hour

255.



Inlet cam

S =	19.1	mm	0.75	inches
T =	13.5	mm	0.53	inches
U =	27.0	mm	1.06	inches

Exhaust cam

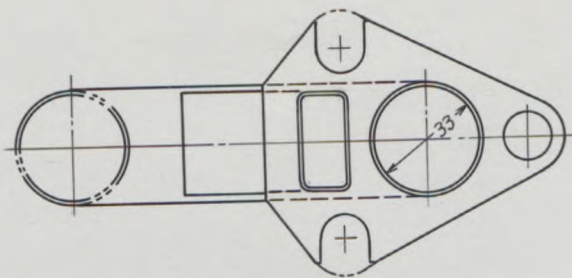
S =	19.1	mm	0.75	inches
T =	13.5	mm	0.53	inches
U =	27.0	mm	1.06	inches



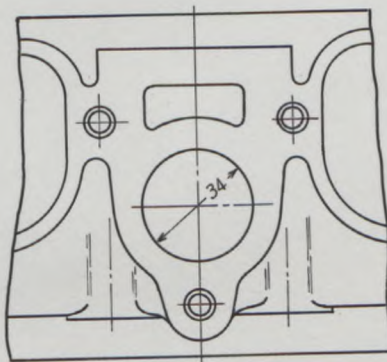
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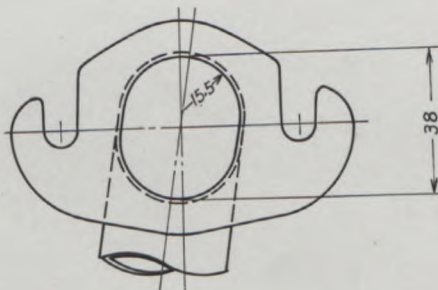
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



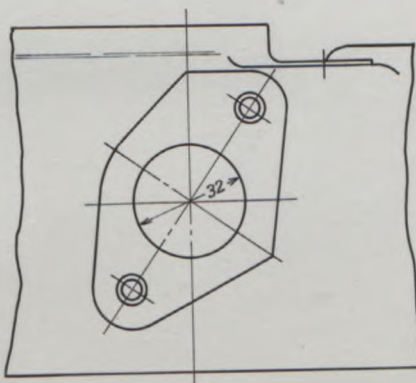
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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	3.307	43/13			2.733	41/15		
2	2.176	37/17			1.842	35/19		
3	1.480	37/25			1.346	35/26		
4	1.033	31/30			1.103	32/29		
5								
6								
reverse	3.636	40/19/11			3.636	40/19/11		

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

FINAL DRIVE

- 290. Type of final drive **Hypoid gear.**
- 291. Type of differential **Bevel gear.**
- 292. Type of limited slip differential (if fitted) _____
- 293. Final drive ratio **3.889** **3.555**
- Number of teeth **35/9** **32/9**



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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 equipment affecting preceding information. This to be stated together with reference number.

- 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 :
11.5 x 2Kg 1bs
- 273. Location of gear-shift
Floor.

Four door sedan



- 9. Weight, total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools :

655 Kg 1444 lbs cwt

- 30. Material(s) of rear-door windows Glass.



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NOT VALID FOR GROUP 1

photo C



photo F



- 25/26 Material (s) of bonnet/boot lid FRP ref: 000 260 231 / 000 260 241 .
62. Number of turns of steering wheel from lock to lock 2.9
92. Number of hydraulic master cylinders 2
100. Outside diameter 262 mm Ref: (RH) 6250 21001
101. Thickness of disc 10 mm (LH) 6250 21011
102. Length of brake linings 95 mm
103. Width of brake linings 37 mm
104. Number of pads per brake 2
105. Total area per brake 6400 mm²

over fendar

Front



Rear



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Photograph

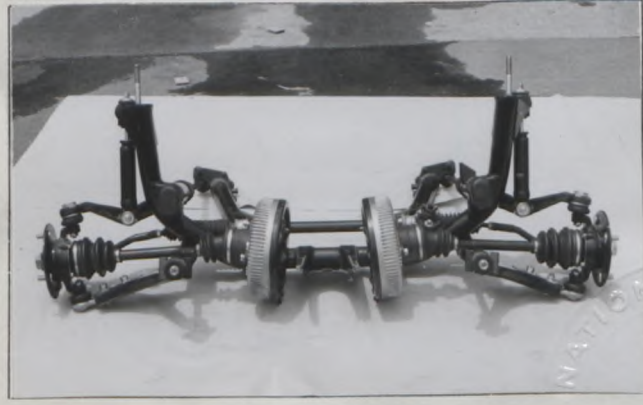
B, 3/4 view of car from rear



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.



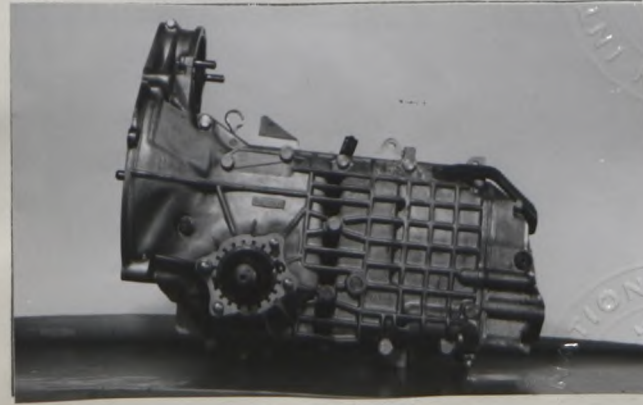
F, front brake, drum removed or disc with caliper(s)



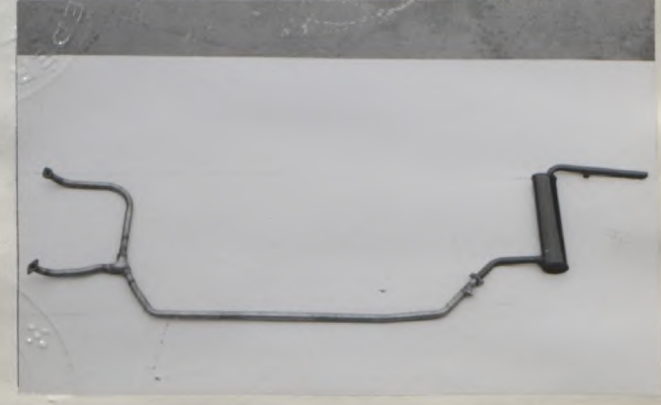
G, rear brake, drum removed or disc with caliper(s)



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold.



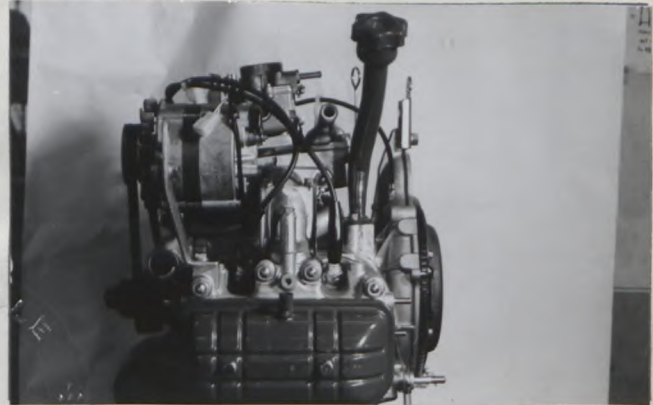
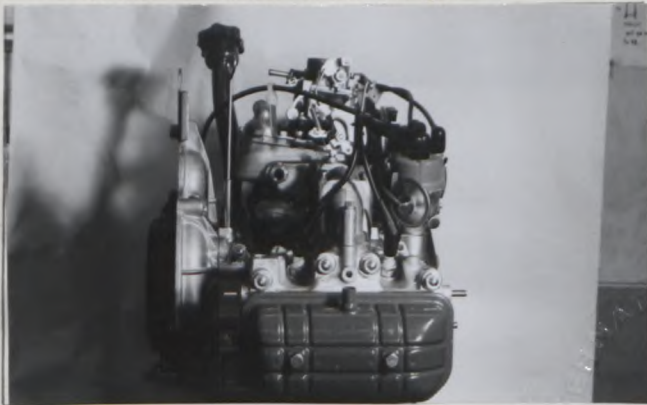
Make **FUJI**

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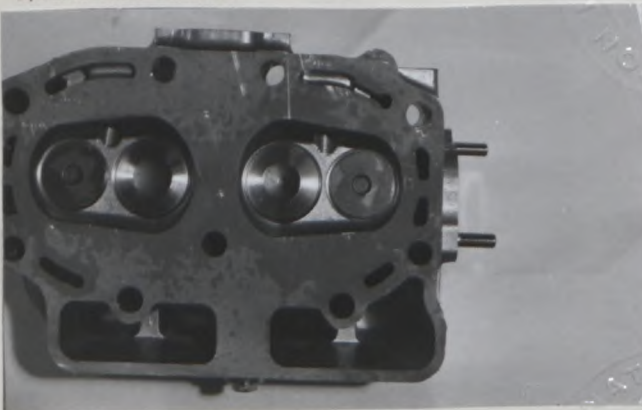
engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.

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



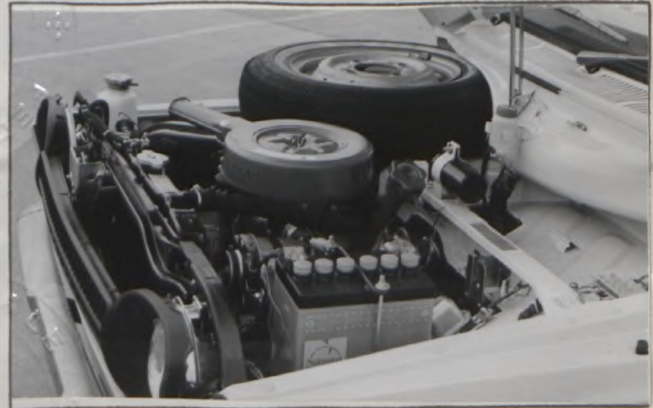
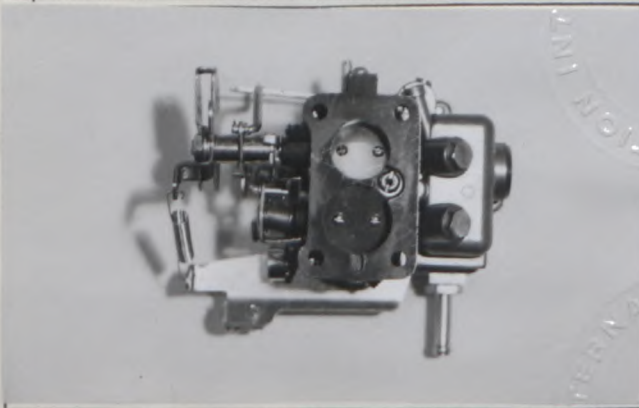
L, combustion chamber

M, piston crown



N, Carburettor (view from side of manifold)

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



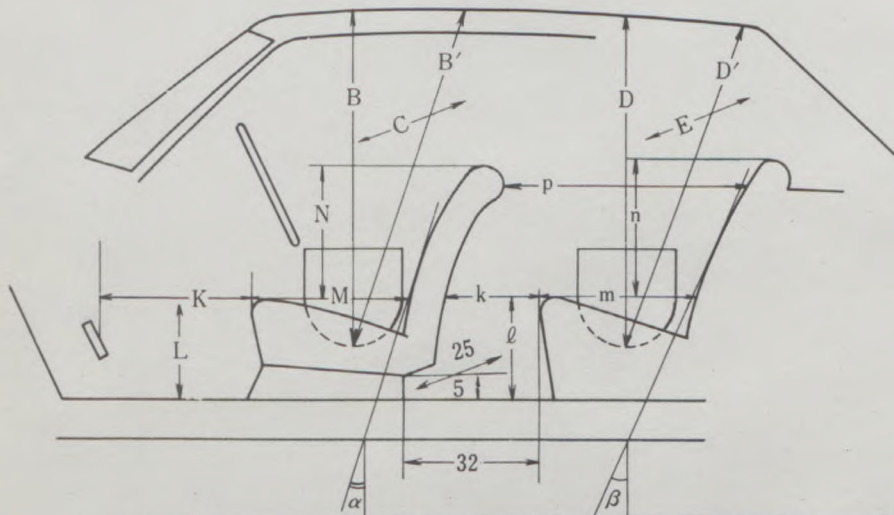
P, inlet manifold

Q, exhaust manifold



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

For 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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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

難波靖治

Yasuharu Nanba

