



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. **1570**
Group **2-Touring**

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer **FUJI HEAVY INDUSTRIES LTD.** Cylinder-capacity **1088** cm³ **66.4** cu. in.
 Model **A14 Z (SUBARU FF-1) Sports Sedan**
 Serial No. of chassis **A14-500011** Manufacturer **FUJI HEAVY INDUSTRIES LTD.**
 engine **EA61-75904** Manufacturer **FUJI HEAVY INDUSTRIES LTD.**
 Recognition is valid from **1st July 1969** List **1969/5**
 The manufacturing of the model described in this recognition form was started on **Jan. 19 69** and the minimum production of **1000** identical cars, in accordance with the specifications of this form was reached on **Apr. 19 69**

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

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National Sporting Authority



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Make **FUJI**

Model **A14 Z**

F. I. A. Rec. No.

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

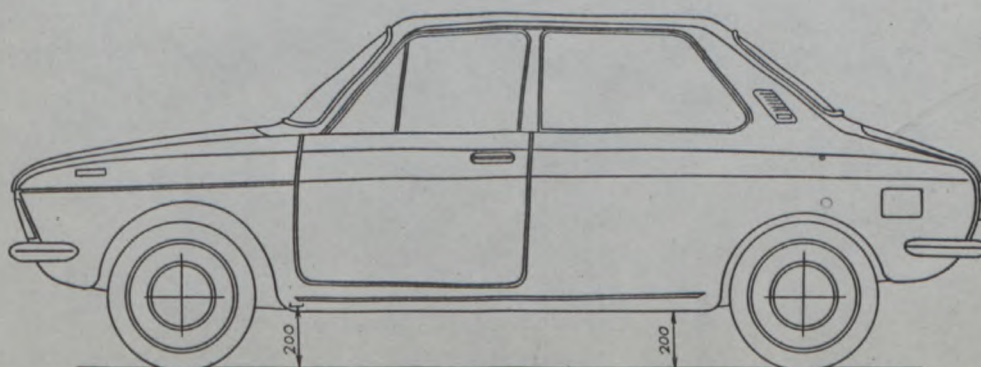
CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2420	mm	95.3	inches
2. <u>Front track</u>	1235	mm	48.6	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			137.5	cm inches
7. <u>Capacity of fuel tank</u> (reserve included)				36 1 lrs
	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:				
	645	kg	1422	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

Make **FUJI**

Model **A14Z**

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. 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 **Separate Vinyl leather.**
42. Weight of front seat (s), complete with supports and rails, out of the car :
13.9 x 2 kg lbs
43. Rear seats, type of seats and upholstery **Bench, Vinyl leather.**
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 **2.9**
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 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 2 (Tandem)

	FRONT		REAR	
	1		1	
93. Number of cylinders per wheel				
94. Bore of wheel cylinder (s)	44.45	mm in.	14.29	mm in.
Drum brakes				
95. Inside diameter		mm in.	180	mm in.
96. Length of brake linings		mm in.	141	mm in.
97. Width of brake linings		mm in.	35	mm in.
98. Number of shoes per brake			2	
99. Total area per brake		mm ² sq. in.	9870	mm ² sq. in.
Disc brakes				
100. Outside diameter	262	mm in.		mm in.
101. Thickness of disc	10	mm in.		mm in.
102. Length of brake linings	95	mm in.		mm in.
103. Width of brake linings	37	mm in.		mm in.
104. Number of pads per brake.	2			
105. Total area per brake	6400	mm ² sq. in.		mm ² sq. in.

Make FUJI

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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 272.0 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 10.0 : 1
- 143. Volume of one combustion chamber 24.2 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-ump~~ / 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 lbs
- 163. Connecting rod 0.35 kg lbs
- 164. Piston with rings and pin 0.33 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. Number of valves per cylinder **1**
 186. Tappet clearance for checking timing (cold) **0.25** mm inches
 187. Valves open at (with tolerance for tappet clearance indicated) **40° ± 5° (B.T.D.C.)**
 188. Valves close at (with tolerance for tappet clearance indicated) **76° ± 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) **76° ± 5° (B.B.D.C.)**
 203. Valves close at (with tolerance for tappet clearance indicated) **40° ± 5° (A.T.D.C.)**

CARBURETION (photograph N)

210. Number of carburetors fitted **2** 211. Type **Down draft.**
 212. Make **MIKUNI KOGYO LTD.** 213. Model **BDS 36**
 214. Number of mixture passages per carburetor **1**
 215. Flange hole diameter of exit port(s) of carburetor **36** mm inches
 216. Minimum dimensions of mixture passage(s) with piston at max. height (example: SU)
29 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.

Make **FUJI**

Model **A14Z**

F. I. A. Rec. No.

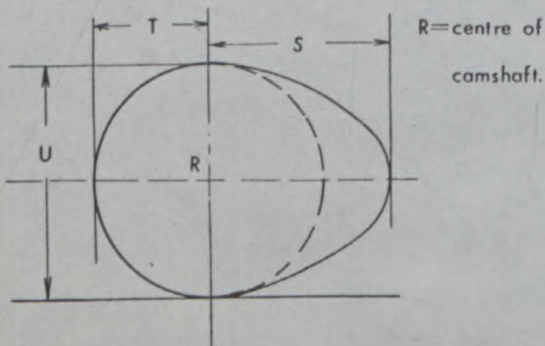
ENGINE ACCESSORIES

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: ~~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 **77 PS** (type of horsepower: **JIS.**) at **7000** rpm
251. Maximum rpm **7500** output at that figure **76 PS**
252. Maximum torque **8.8 kg-m** at **4800** rpm
253. Maximum speed of the car **160** km/hour **miles / hour**

255.



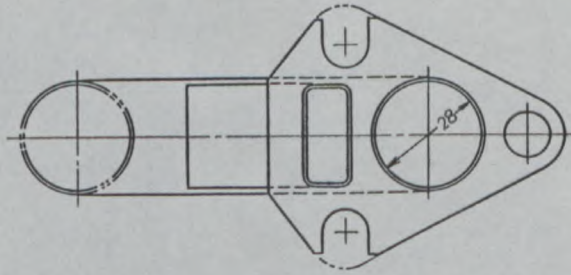
Inlet cam

$s = 18.6$	mm	0.73	inches
$T = 12.5$	mm	0.49	inches
$U = 25.0$	mm	0.98	inches

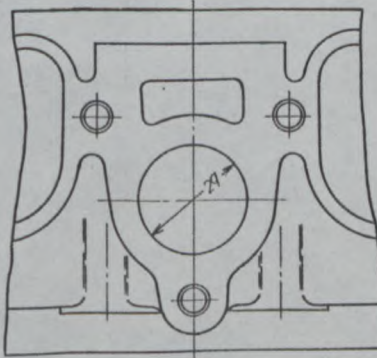
Exhaust cam

$s = 18.6$	mm	0.73	inches
$T = 12.5$	mm	0.49	inches
$U = 25.0$	mm	0.98	inches

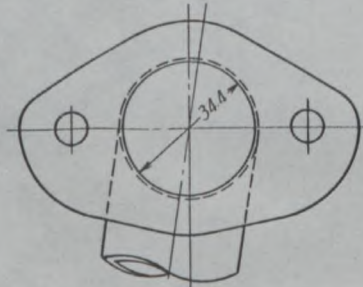
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



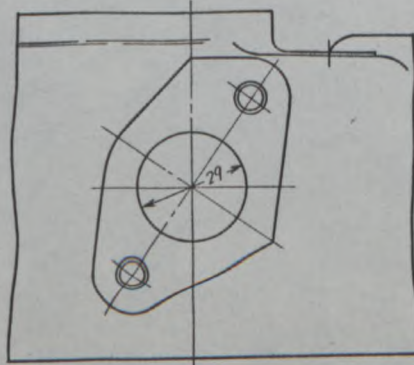
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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

Make **FUJI**

Model **A14Z**

F. I. A. Rec. No.

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 **Floor.**
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			3.540	39/11	3.167	38/12
2	2.235	38/17			2.235	38/17	2.056	37/18
3	1.542	37/24			1.524	32/21	1.440	36/25
4	1.033	31/30			1.038	27/26	1.103	32/29
5								
6								
reverse	4.100	41/19/10			4.100	41/19/10	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 **4.375 4.125 3.875 3.625 3.375**
- Number of teeth **35/8 33/8 31/8 29/8 27/8**

Make **FUJI**

Model **A14Z**

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, 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.

277	Alternative manual	
	Ratio	No. teeth
1	2.846	37/13
2	1.895	36/19
3	1.440	36/25
4	1.179	33/28
reverse	4.100	41/19/10

Four door Sports Sedan.



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

Make **FUJI**

Model **A14Z**

F.I.A. Rec. No.

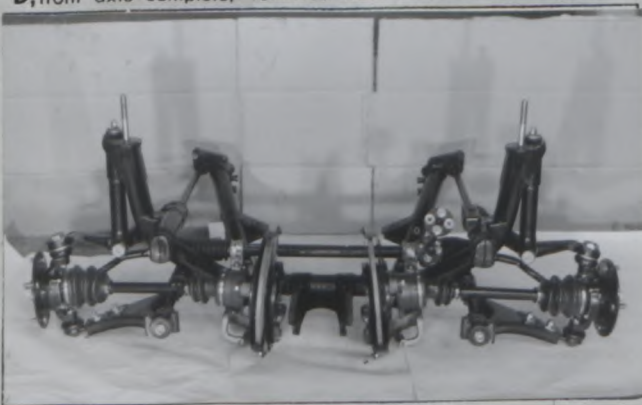
Photograph

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

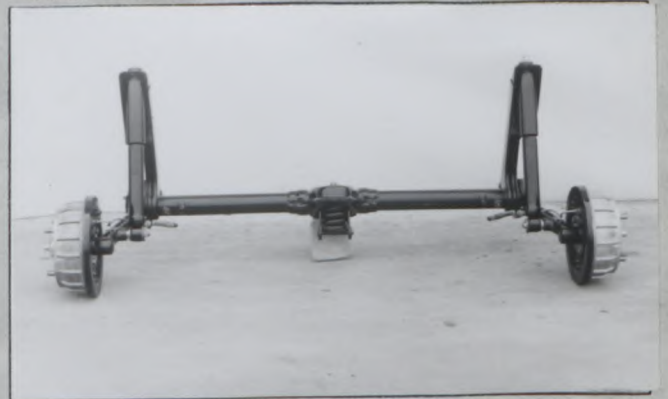
B. 3/4 view of car from rear



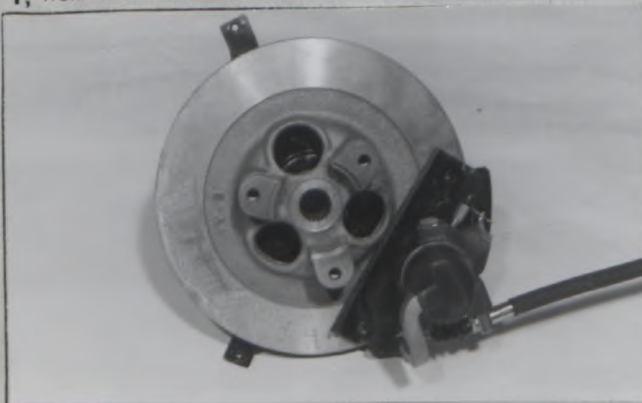
D. front axle complete, removed from car. Without wheels.



E. Rear axle complete without wheels, removed from car.



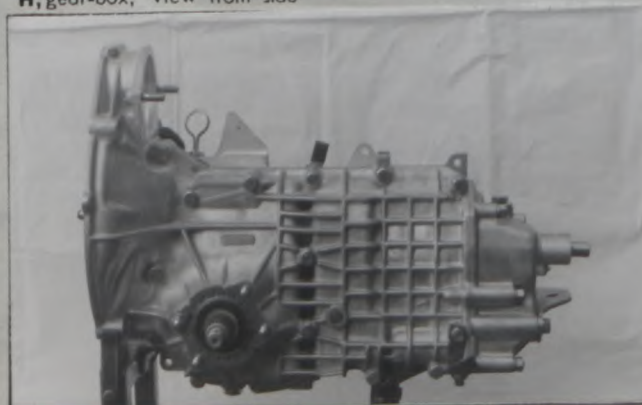
F. front brake, drum removed or disc with calipers



G. rear brake, drum removed or disc with calipers



H. gear-box, view from side

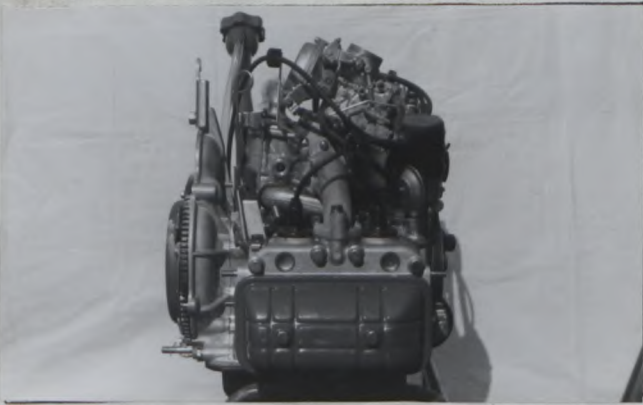


I. silencer + exhaust pipes after exhaust manifold.

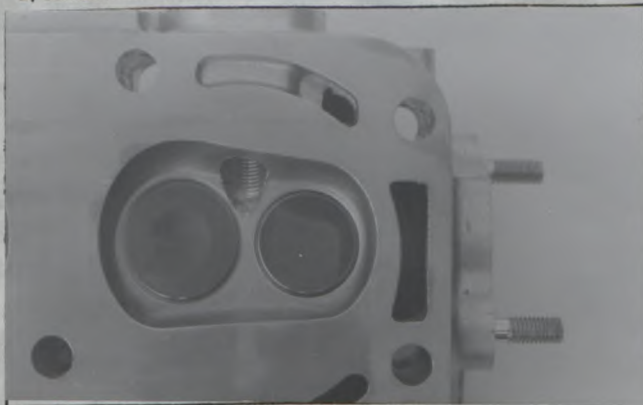


Make **FUJI**

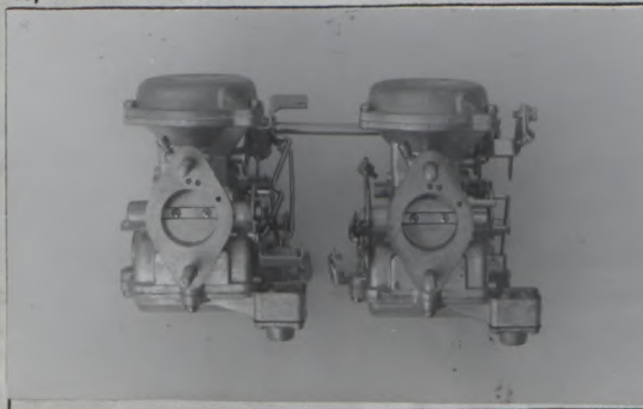
engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.



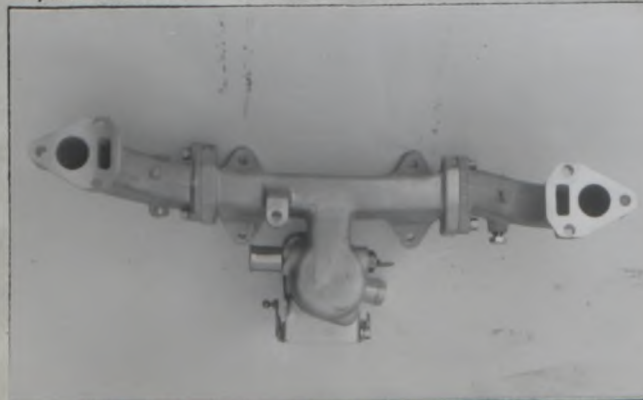
L, combustion chamber



N, Carburettor (view from side of manifold)



P, inlet manifold

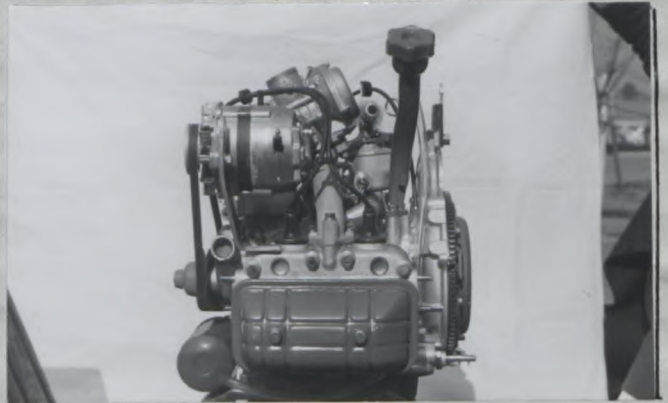


Photograph

Model **A14Z**

F. I. A. Rec. No

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



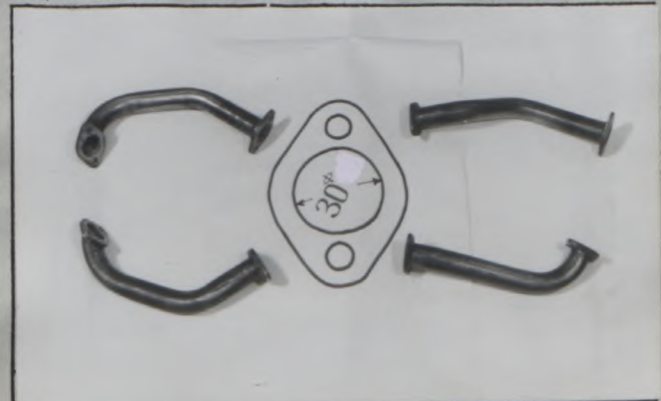
M, piston crown



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

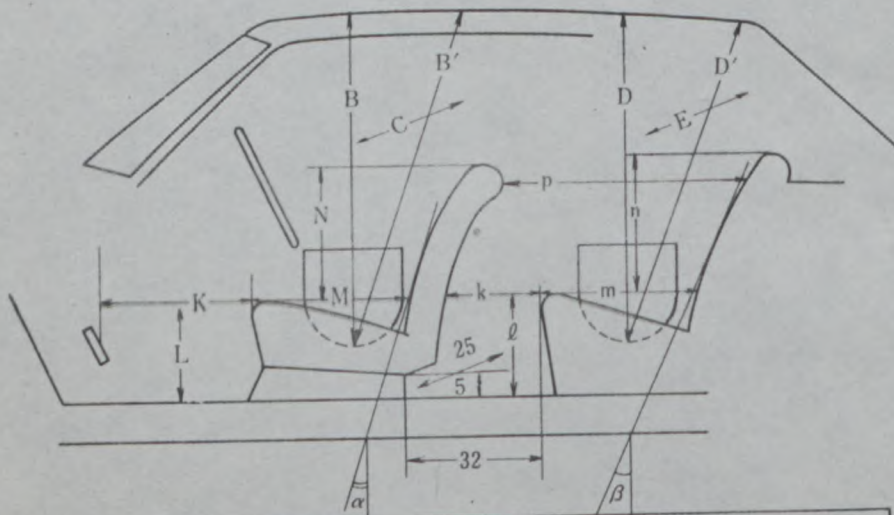


Q, exhaust manifold



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)

Make FUJI

Model A14Z

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 :

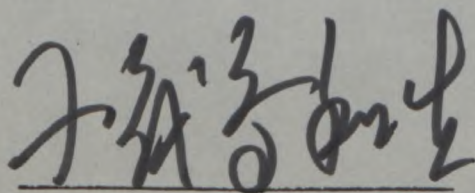
mm

inches

321. Drawing of cylinder ports.

330. Supercharging—state full details hereafter :

JAPAN AUTOMOBILE FEDERATION



Kazunari Komotori



JAPAN AUTOMOBILE FEDERATION F. I. A. Homol. No 1570

1/1/15

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Amendment to Form of Recognition in accordance with the International Sporting Code.

Make FUJI

Model A14Z

Modification's application starts with serial

No. chassis A14-500011 engine EA61-75904

Application of this amendment started the

Commercial denomination after application of modifications

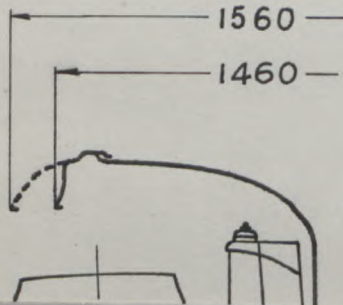
The modifications are to be considered as: Variant / ~~normal evolution of the type~~

Date amendment is valid from 1/7/70 List 70/7

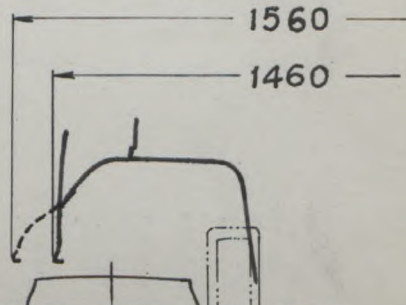
Description of amendment

The following item have been added. Optionad equipment. over fender.

Front



Rear



Stamp and signature of National Sporting Authority



Stamp and signature of F. I. A.

JAPAN AUTOMOBILE FEDERATION

新妻 一郎

Ichiro Niizuma

