



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. 1593
Group 2

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer	Isuzu Motors Limited	Cylinder-capacity	1584 cm ³ 96.66 cu. in.
Serial No. of chassis	PR50-4097363	Model	Isuzu PR50SD (Bellett1600S)
Serial No. of engine	G161-313182	Manufacturer	Isuzu Motors Limited
Recognition is valid from	1/4/70	Manufacturer	Isuzu Motors Limited
		List	70/4

The manufacturing of the model described in this recognition form was started on **January 1969** and the minimum production of **1000** identical cars, in accordance with the specifications of this form was reached on **May 1969**.

Photograph A, 3/4 view of car from front



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

Variants				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	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.



Make ISUZU

Model PR50SD

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.

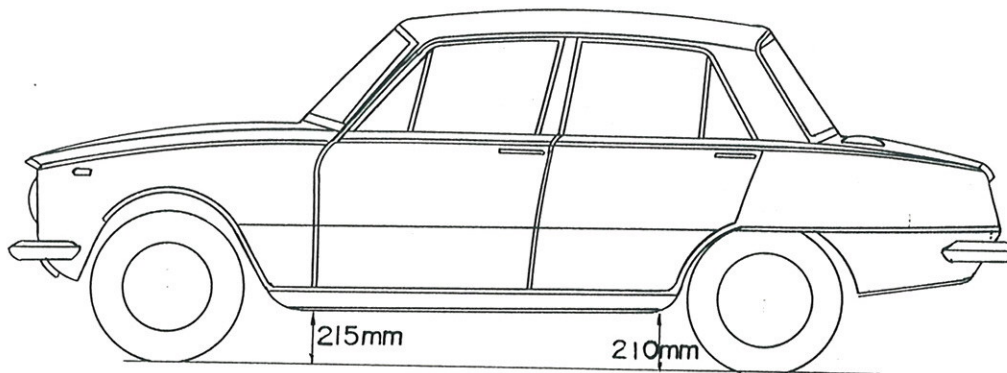
CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2350	mm	92.5	inches
2. <u>Front track</u>	1245	mm	49.0	inches *
3. <u>Rear track</u>	1195	mm	47.0	inches *
4. Overall length of the car		401.5	cm	inches
5. Overall width of the car		149.5	cm	inches
6. Overall height of the car		139.0	cm	inches
7. <u>Capacity of fuel tank</u> (reserve included)				40 ltrs
	10.5	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:				
	870	kg	1920	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



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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 **4** 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 **Glass**
- 31. Sliding system of door windows **Vertical, Manual**
- 32. Material (s) of rear-quarter light

ACCESSORIES AND UPHOLSTERY

- 38. Interior heating : ~~Yes~~ - no
- 39. Air-conditioning : ~~Yes~~ - no
- 40. Ventilation : yes - ~~Yes~~
- 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 :
12.5 kg x 2 lbs
- 43. Rear seats, type of seats and upholstery **Bench, Vinyl**
- 44. Front bumper, material (s) **Steel** Weight **6.0 kg** lbs
- 45. Rear bumper, material (s) **Steel** Weight **6.0 kg** lbs

WHEELS

- 50. Type **Pressed steel**
- 51. Weight (per wheel, without tyre) **6.0 kg** lbs
- 52. Method of attachment **4 nuts**
- 53. Rim diameter **330.2 mm** **13.0 inches**
- 54. Rim width **114.3 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 **2.9**
- 63. In case of servo-assistance



SUSPENSION

- 70. Front suspension (photogr. D), type Independent, Wishbone
- 71. Type of spring Coil
- 72. Stabiliser (if fitted) Torsion bar
- 73. Number of shockabsorbers 2
- 74. Type Hydraulic telescopic
- 78. Rear suspension (photogr. E), type Independent, Swing axle
- 79. Type of spring Coil and Transverse Leaf
- 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	
93. Number of cylinders per wheel	2		1	
94. Bore of wheel cylinder (s)	57.2 mm	in.	22.2 mm	in.
Drum brakes				
95. Inside diameter	mm	in.	203.2 mm	in.
96. Length of brake linings	mm	in.	195.0 mm	in.
97. Width of brake linings	mm	in.	37.1 mm	in.
98. Number of shoes per brake			2	
99. Total area per brake	mm ²	sq. in.	14,430 mm ²	sq. in.
Disc brakes				
100. Outside diameter	237 mm	in.	mm	in.
101. Thickness of disc	10 mm	in.	mm	in.
102. Length of brake linings	60 mm	in.	mm	in.
103. Width of brake linings	45 mm	in.	mm	in.
104. Number of pads per brake	2			
105. Total area per brake	5,400 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	In-line		
133. Bore 82	mm 3.228	in. 134. Stroke	75 mm 2.953 in.
135. Capacity per cylinder		396	cm ³ 24.17 cu. in.
136. Total cylinder-capacity		1584	cm ³ 96.68 cu. in.
137. Material (s) of cylinder block		Cast iron	
138. Material (s) of sleeves (if fitted)			
139. Cylinder-head, material (s)		Aluminum	Number fitted 1
140. Number of inlet ports	4	141. Number of exhaust ports	4
142. Compression ratio	9.3		
143. Volume of one combustion chamber		47.7	cm ³ cu. in.
144. Piston, material	Aluminum	145. Number of rings	3
146. Distance from gudgeon pin centre line to highest point of piston crown	42.2	mm	inches
147. Crankshaft : round stamped		148. Type of crankshaft : integral	XXXXXX
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	3.2	ltrs	pts quarts US
153. Oil cooler : yes / no			
154. Method of engine cooling	Water		
155. Capacity of cooling system	5.7	ltrs	pints quarts US
156. Cooling fan (if fitted), dia.	32	cm	inches
157. Number of blades of cooling fan	4		

Bearings

158. Crankshaft main, type	Plain	Dia.	56 mm	in.
159. Connecting rod big end,	Plain	Dia.	49 mm	in.

Weights

160. Flywheel (clean)	6.0	kg	lbs
161. Flywheel with clutch (all turning parts)	11.1	kg	lbs
162. Crankshaft	15.3	kg	lbs
163. Connecting rod	0.59	kg	lbs
164. Piston with rings and pin	0.515	kg	lbs



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FOUR STROKE ENGINES

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

INLET (see page 8) *

180. Material(s) of inlet manifold **Aluminum**
181. Diameter of valves **41 mm** **1.614** inches
182. Max. valve lift **9.3 mm** **0.366** 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) **0.30 mm** inches
187. Valves open at (with tolerance for tappet clearance indicated) **B.T.D.C 38° ± 3°**
188. Valves close at (with tolerance for tappet clearance indicated) **A.B.D.C 82° ± 3°**
189. Air filter, type **Dry**

EXHAUST (see page 8)

195. Material (s) of exhaust manifold **Steel**
196. Diameter of valves **36 mm** **1.417** inches
197. Max. valve lift **9.3 mm** **0.366** 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) **0.35 mm** inches
202. Valves open at (with tolerance for tappet clearance indicated) **B.B.D.C 73° ± 3°**
203. Valves close at (with tolerance for tappet clearance indicated) **A.T.D.C 35° ± 3°**

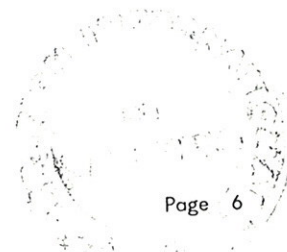
CARBURETION (photograph N)

210. Number of carburetors fitted **2** 211. Type **Side draught (SU)**
212. Make **Hitachi** 213. Model **HJD 38W**
214. Number of mixture passages per carburetor
215. Flange hole diameter of exit port(s) of carburetor **38 mm** in.
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.



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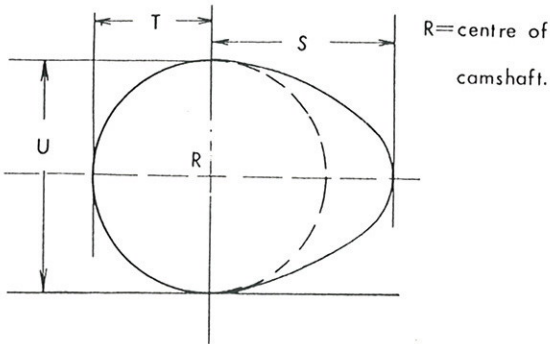
ENGINE ACCESSORIES

- 230. Fuel pump : mechanical ~~xxxxxxx~~
- 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: ~~xxxxx~~/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 **90PS** (type of horsepower: **JIS**) at **5,400** rpm
- 251. Maximum rpm **5,400** output at that figure **90PS**
- 252. Maximum torque **13.0 kg-m** at **4,200** rpm
- 253. Maximum speed of the car **160** km/hour **miles / hour**

255.



Inlet cam

S =	21.5	mm	0.845	inches
T =	14.6	mm	0.575	inches
U =	29.3	mm	1.155	inches

Exhaust cam

S =	21.5	mm	0.845	inches
T =	14.6	mm	0.575	inches
U =	29.3	mm	1.155	inches



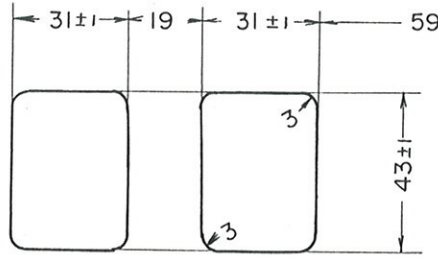
Make ISUZU

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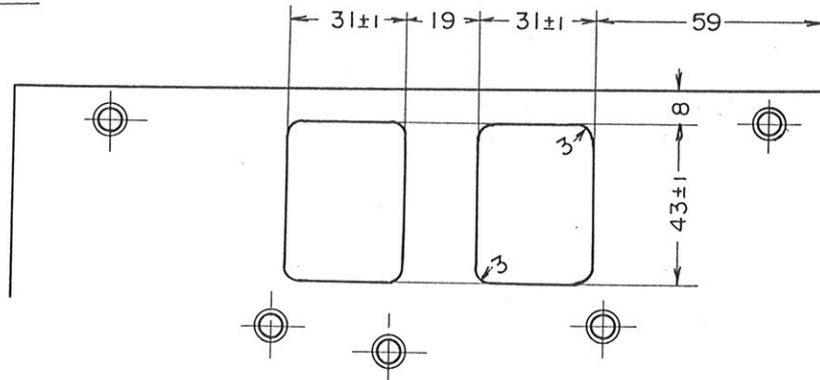
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Engine center

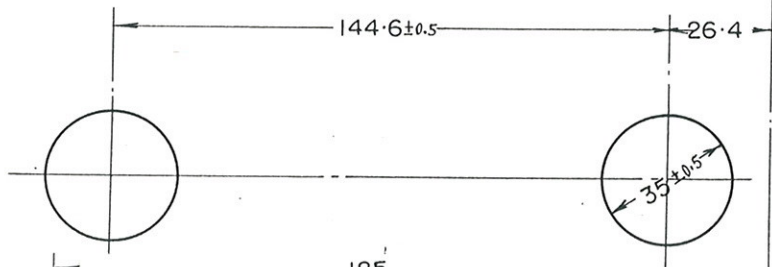
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



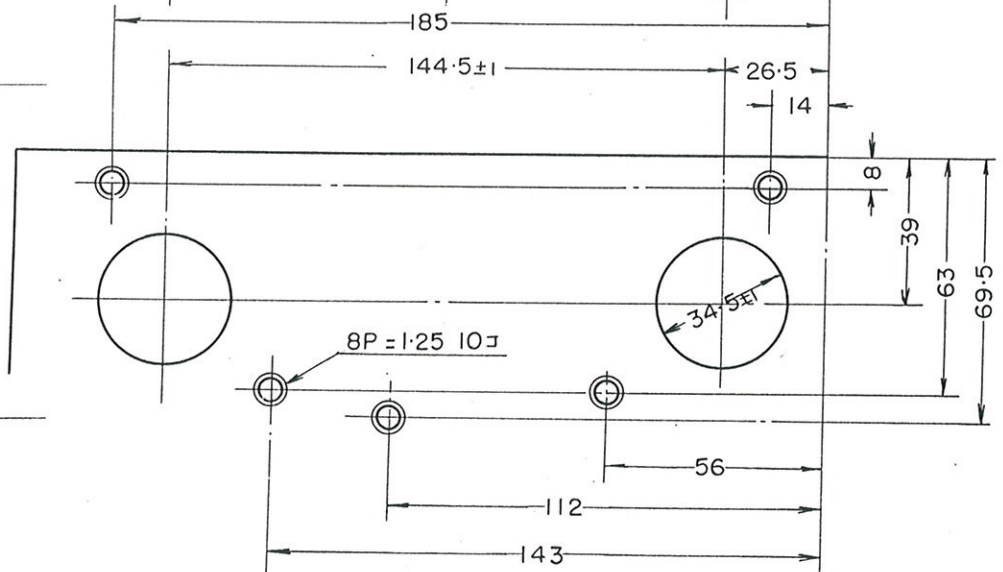
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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

Make ISUZU

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DRIVE TRAIN

CLUTCH

- 260. Type of clutch **Dry plate**
- 261. No. of plates **1**
- 262. Dia. of clutch plates **20.3** cm inches
- 263. Dia. of linings, inside **14.6** cm in. outside **20.3** cm in.
- 264. Method of operating clutch **Mechanical**

GEAR BOX (photograph H)

- 270. Manual type, make **Isuzu** 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 XXXXXX			
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	3.507	$\frac{29}{18} \times \frac{37}{17}$			3.507	$\frac{28}{19} \times \frac{37}{17}$		
2	2.175	$\frac{29}{18} \times \frac{27}{20}$			1.989	$\frac{28}{19} \times \frac{27}{20}$		
3	1.418	$\frac{29}{18} \times \frac{22}{25}$			1.356	$\frac{28}{19} \times \frac{23}{25}$		
4	1.000				1.000			
5								
6								
reverse	3.927	$\frac{29}{18} \times \frac{39}{16}$			3.592	$\frac{28}{19} \times \frac{39}{16}$		

- 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 **3.727 or 4.100**
- Number of teeth **41/11 or 41/10**



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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.



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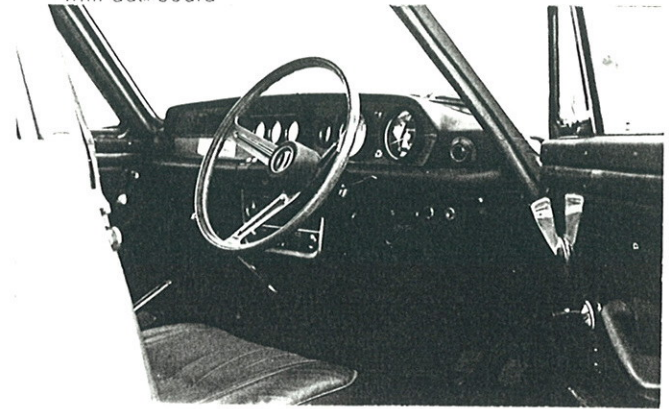
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Photograph

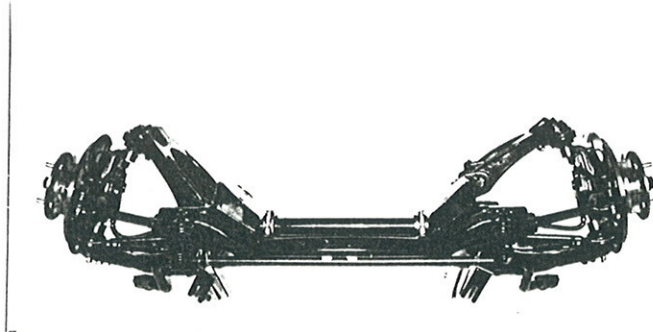
B, 3/4 view of car from rear



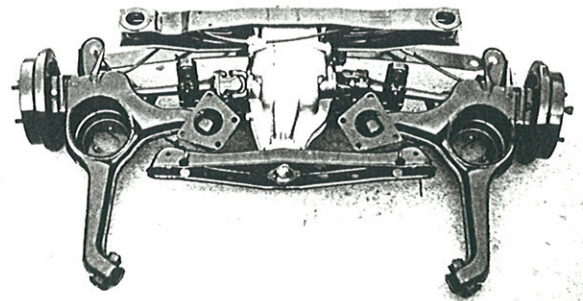
C, interior view of car through driver's door (open or removed) with dashboard



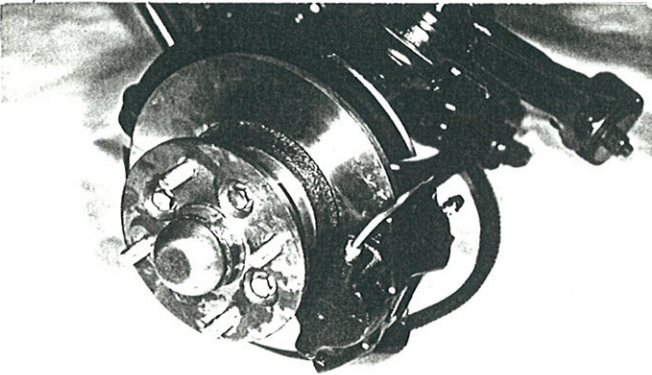
D, front axle complete, removed from car. Without wheels.



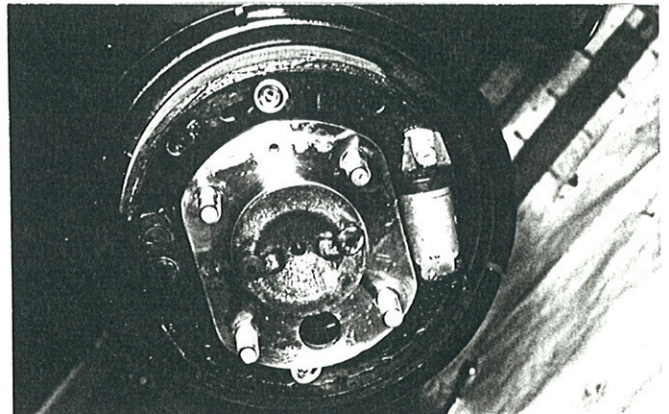
E, Rear axle complete without wheels, removed from car.



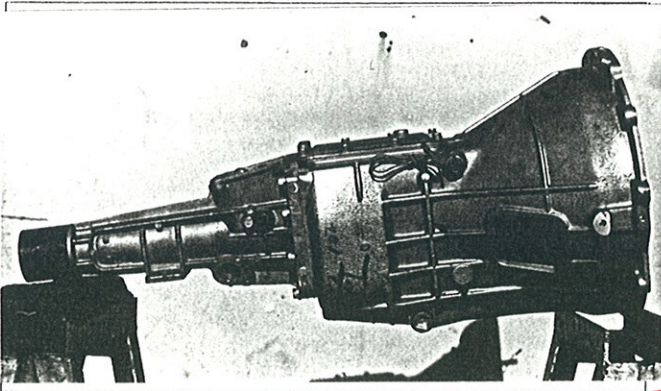
F, front brake, drum removed or disc with caliper(s)



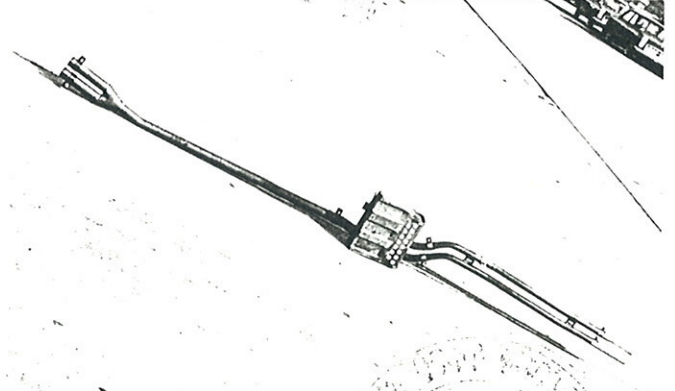
G, rear brake, drum removed or disc with caliper(s)



H, gear-box, view from side

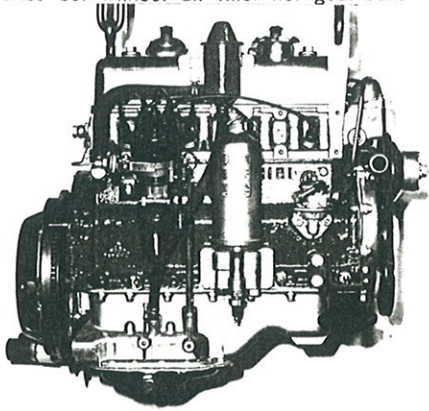


I, silencer + exhaust pipes after exhaust manifold.



Make ISUZU

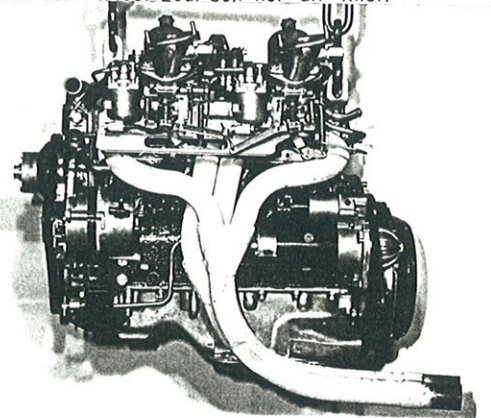
engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.



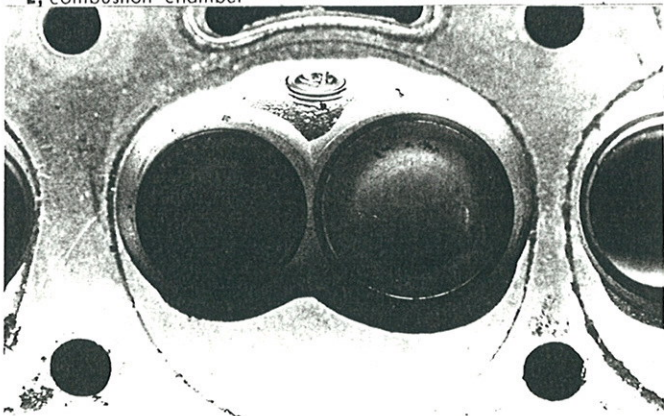
Model PR50SD
Photograph

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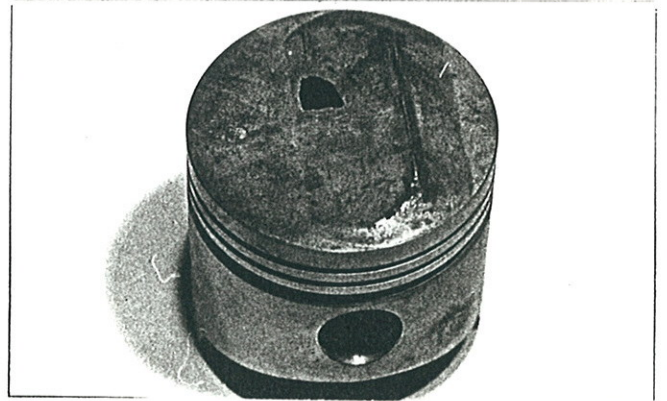
Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



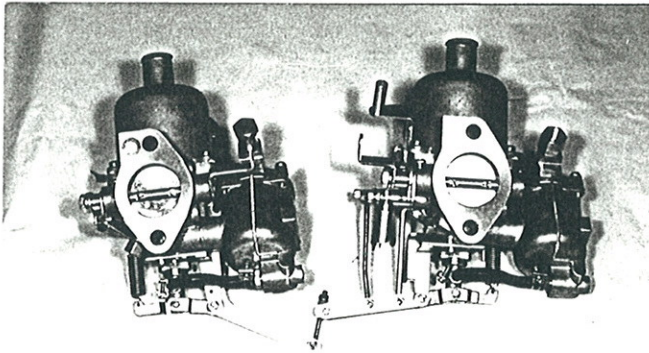
L, combustion chamber



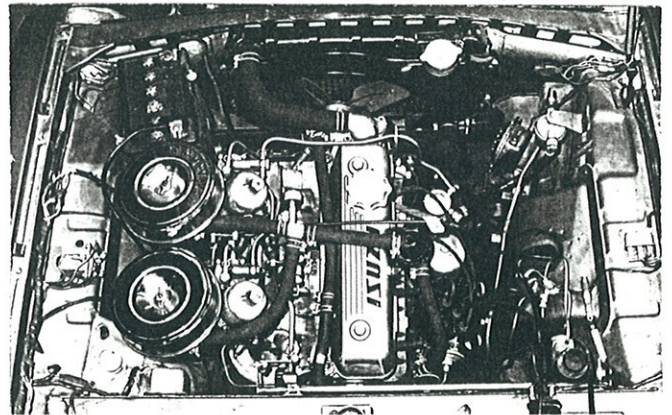
M, piston crown



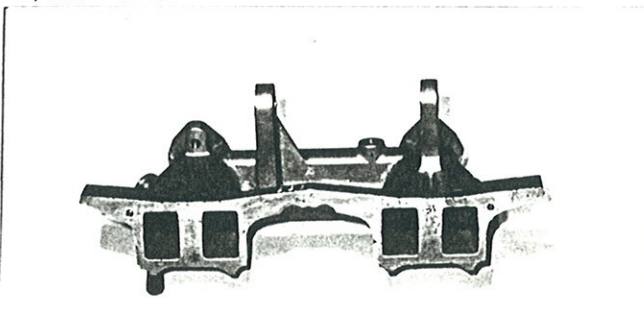
N, Carburettor (view from side of manifold)



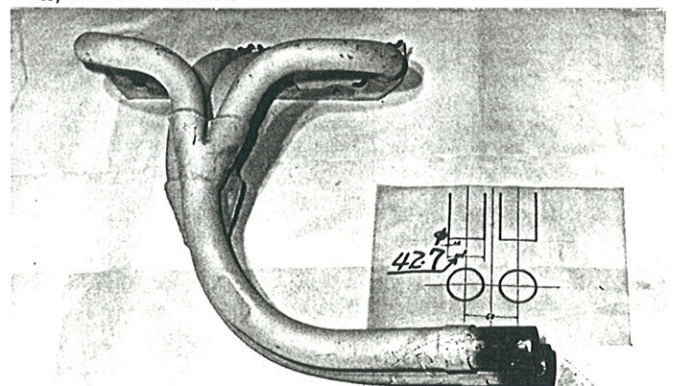
O, engine in car with all accessories, bonnet open or removed.



P, inlet manifold

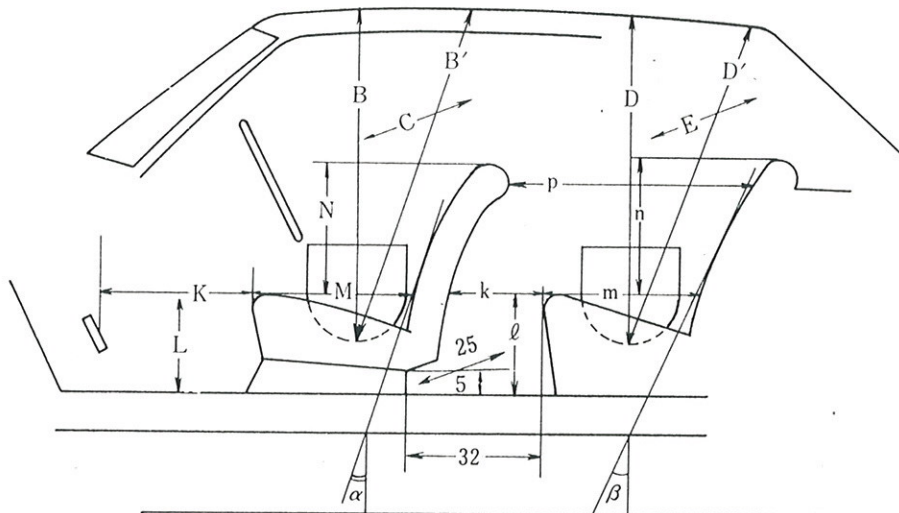


Q, exhaust manifold



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
94	97	15°	123	92	94	20°	122

Minimum Dimensions (cm)										
L	ℓ	M	m	N	n	k+m	p	k	k+ ℓ +m	K+L+M
29	30	46	44	40	39	70	73	26	100	121
0.9L = 26.1		0.85M = 39.1		0.8N = 32		0.8(k+m) = 56		(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

難波清治

Yasuharu Nanba

