



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. ~~5156~~

Group *1-Series*

5156
Production
Touring

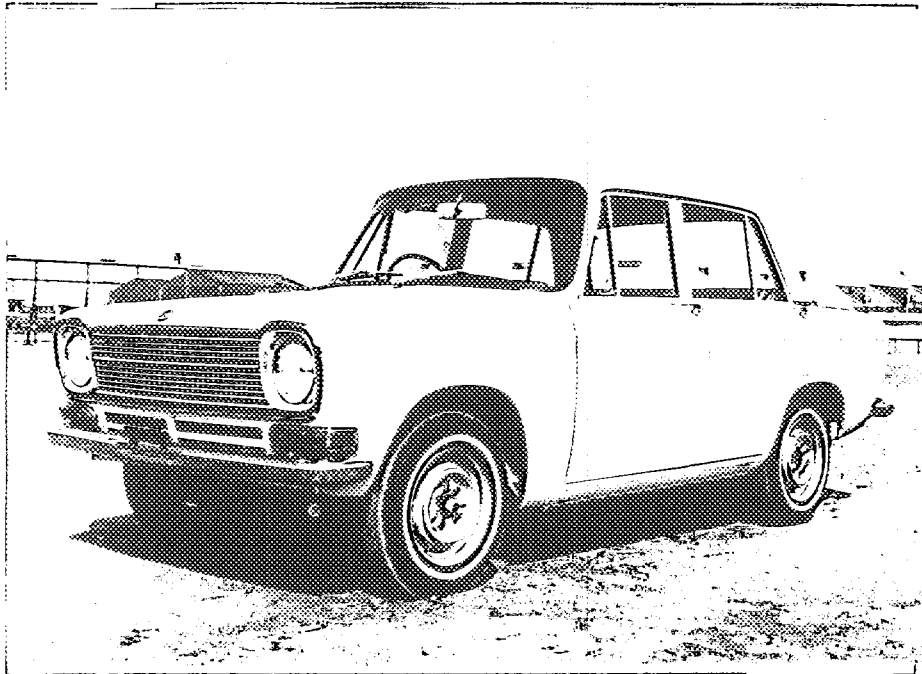
FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer	Mitsubishi Heavy Industries, Ltd.	Cylinder-capacity	1088 cm ³ 66.39 cu. in.
Serial No. of chassis	A21 - 00001	Model	Mitsubishi A21 Sedan
Serial No. of engine	KE44 - 10001	Manufacturer	Mitsubishi Heavy Industries, Ltd.
Recognition is valid from	<i>1st July 1967</i>	Manufacturer	Mitsubishi Heavy Industries, Ltd.
		List	<i>16/4</i>

The manufacturing of the model described in this recognition form was started on *SEPT.*, 19*66* and the minimum production of *5000* identical cars, in accordance with the specifications of this form was reached on *NOV.* 19*66*

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.

Hubert Plass



Make **Mitsubishi**

Model **A21**

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.

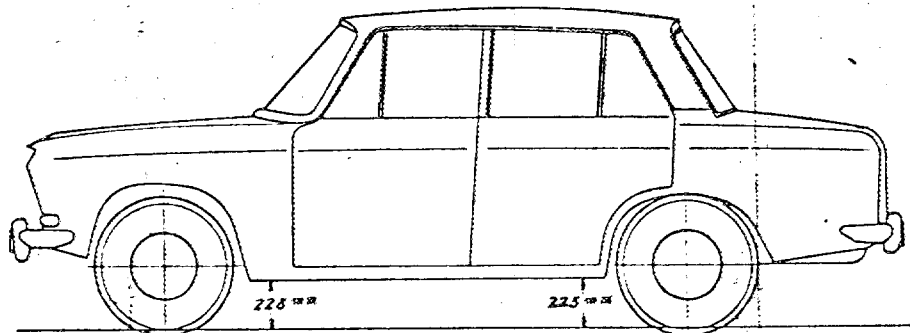
CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2285	mm	89.96	inches
2. <u>Front track</u>	1230	mm	48.43	inches *
3. <u>Rear track</u>	1220	mm	48.03	inches *
4. Overall length of the car		385.5	cm	inches
5. Overall width of the car		149	cm	inches
6. Overall height of the car		142	cm	inches
7. <u>Capacity of fuel tank</u> (reserve included)				32 ltrs
	8.45	Gallon US	7.04	Gallon Imp.
8. Seating capacity	5 passengers			
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:				
	785	kg	1731	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.

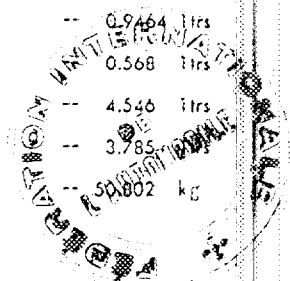
Specify ground clearance in relation to the track and give drawing of two fixed points of the vehicle's structure at which measurements are taken.

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)	--	90.718 kg



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Model A21

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CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction : ~~XXXXXX~~ / unitary construction
21. Unitary construction, material (s) : Steel Plate
Separate construction
22. Separate Constructions: Material(s) of chassis
23. Material (s) of coachwork : Steel Plate
24. Number of doors 4 Material (s) : Steel Plate
25. Material (s) of bonnet : Steel Plate
26. Material (s) of boot lid : Steel Plate
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 : Acrylic resin

ACCESSORIES AND UPHOLSTERY

38. Interior heating : ~~XXX~~ - DO 39. Air-conditioning : ~~XXX~~ - no
40. Ventilation : yes - ~~DD~~
41. Front seats, type of seats and upholstery : Bench or Separate, Vinyl Leather
42. Weight of front seat (s), complete with supports and rails, out of the car :
22.8 kg lbs
43. Rear seats, type of seats and upholstery : Bench, Vinyl Leather
44. Front bumper, material (s) : Steel Plate Weight 4.3 kg lbs
45. Rear bumper, material (s) : Steel Plate Weight 4.1 kg lbs

WHEELS

50. Type : Pressed Steel
51. Weight (per wheel, without tyre) : 5.65 kg lbs
52. Method of attachment : Bolt Attachment Type
53. Rim diameter : 330.2 , mm 13 , inches
54. Rim width : 101.6 , mm 4 , inches

STEERING

60. Type : Recirculating Ball Type
61. Servo-assistance : ~~XX~~ : no
62. Number of turns of steering wheel from lock to lock : 2.5
63. In case of servo-assistance



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SUSPENSION

- 70. Front suspension (photogr. D), type Independent by Double Wishbone
- 71. Type of spring Coil Spring
- 72. Stabiliser (if fitted) Torsion Bar
- 73. Number of shock absorbers 2
- 74. Type Hydraulic Telescopic
- 78. Rear suspension (photogr. E), type Rigid Axle
- 79. Type of spring Semi-elliptical Leaf Spring
- 80. Stabiliser (if fitted)
- 81. Number of shock absorbers 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	1			1		
94. Bore of wheel cylinder (s)	mm	7/8	in.	mm	11/16	in.
Drum brakes						
95. Inside diameter	228.6	mm	in.	228.6	mm	in.
96. Length of brake linings	(Primary 215	mm	in.	(215	mm	in.
97. Width of brake linings	Secondary 245	mm	in.	245	mm	in.
	35	mm	in.	35	mm	in.
98. Number of shoes per brake	2			2		
99. Total area per brake	16100	mm ²	sq. in.	16100	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 In-Line
- 133. Bore 73 mm 2.87 in.
- 134. Stroke 65 mm 2.56 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 Cast-Iron
- 138. Material (s) of sleeves (if fitted)
- 139. Cylinder-head, material (s) Aluminium Alloy Number fitted 1
- 140. Number of inlet ports 4
- 141. Number of exhaust ports 4
- 142. Compression ratio 8.5
- 143. Volume of one combustion chamber 36.3 cm³ 2.22 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 35.5 mm 1.40 inches
- 147. Crankshaft : ~~XXXXXX~~ / stamped
- 148. Type of crankshaft : integral / ~~XXXXXX~~
- 149. Number of crankshaft main bearings 3
- 150. Material of bearing cap Cast Iron
- 151. System of lubrication : ~~XXXXXX~~ / oil in sump
- 152. Capacity, lubricant 3 ltrs 5.3 pts 3.2 quarts US
- 153. Oil cooler : ~~XXXX~~ / no
- 154. Method of engine cooling Water
- 155. Capacity of cooling system 2.8 ltrs (Without Radiator and Pipe) 4.9 pints 3.0 quarts US
- 156. Cooling fan (if fitted), dia. 3.0 cm 1.2 inches
- 157. Number of blades of cooling fan 4

Bearings

- 158. Crankshaft main, type Plain Bearing Dia. 64 mm 2.520 in.
- 159. Connecting rod big end, Plain Bearing Dia. 52 mm 2.047 in.

Weights

- 160. Flywheel (clean) 6.77 kg 14.93 lbs
- 161. Flywheel with clutch (all turning parts) 10.53 kg 23.21 lbs
- 162. Crankshaft 10.7 kg 23.59 lbs
- 163. Connecting rod 0.521 kg 1.15 lbs
- 164. Piston with rings and pin 0.32 kg 0.71 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 **Pushrod and Rocker**

INLET (see page ⁸ ~~8~~ *)

180. Material(s) of inlet manifold **Aluminium Alloy**
181. Diameter of valves **35** mm **1.38** inches
182. Max. valve lift **7.8 ± 0.3** mm **0.312 ± 0.012** 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) **0.05** mm **0.002** inches
187. Valves open at (with tolerance for tappet clearance indicated) **20 Deg, ± 2.5** BTDC
188. Valves close at (with tolerance for tappet clearance indicated) **60 Deg, ± 2.5** ABDC
189. Air filter, type **Dry**

EXHAUST (see page ⁸ ~~8~~ *)

195. Material (s) of exhaust manifold **Cast Iron**
196. Diameter of valves **28** mm **1.1** inches
197. Max. valve lift **7.8 ± 0.3** mm **0.312 ± 0.012** 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) **0.1** mm **0.004** inches
202. Valves open at (with tolerance for tappet clearance indicated) **60 Deg, ± 2.5** BBDC
203. Valves close at (with tolerance for tappet clearance indicated) **20 Deg, ± 2.5** ATDC

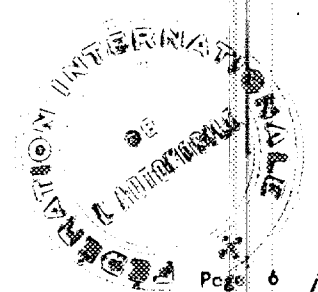
CARBURETION (photograph N)

210. Number of carburetors fitted **1** 211. Type **Down Draft Dual Venturi**
212. Make **AISAN KOGYO CO., LTD.** 213. Model **DW 28**
214. Number of mixture passages per carburetor **2**
215. Flange hold diameter of exit port(s) of carburetor **28** mm **1.1** in.
216. Minimum dimensions of mixture passage (s) ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~
19.0 24.0 mm **0.748 0.945** 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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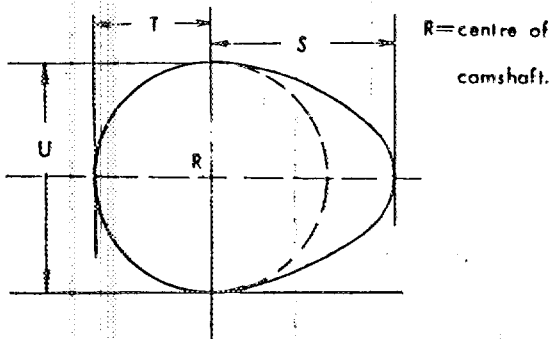
ENGINE ACCESSORIES

- | | | | |
|---|--------------------------|--------------------------------------|-------------|
| 230. Fuel pump : mechanical 3300X2703M20X | 231. No. fitted | 1 | |
| 232. Type of ignition system Battery | 233. No. of distributors | 1 | |
| 234. No. of ignition coils | 1 | 235. No. of spark plugs per cylinder | 1 |
| 236. Generator, type 3300X2703M20X /alternator-number fitted | 1 | 237. Method of drive | 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 | 5 8 PS | (type of horsepower: JIS) at | 6000 | rpm |
| 251. Maximum rpm | 6500 | output at that figure | 5 7 PS | |
| 252. Maximum torque | 8.2 Kg-m | at | 3800 | rpm |
| 253. Maximum speed of the car | 135 | km/hour | | miles / hour |

255.



Inlet cam

s = 20.3	mm	0.799	inches
T = 15	mm	0.591	inches
U = 30	mm	1.181	inches

Exhaust cam

s = 20.3	mm	0.799	inches
T = 15	mm	0.591	inches
U = 30	mm	1.181	inches

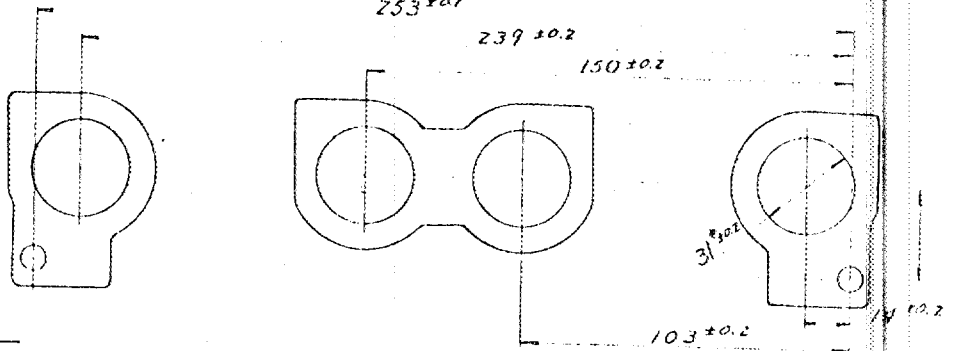


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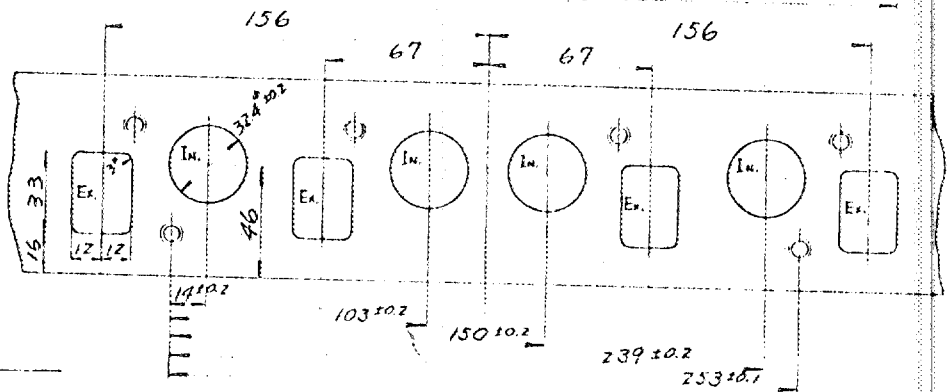
Model **A21**

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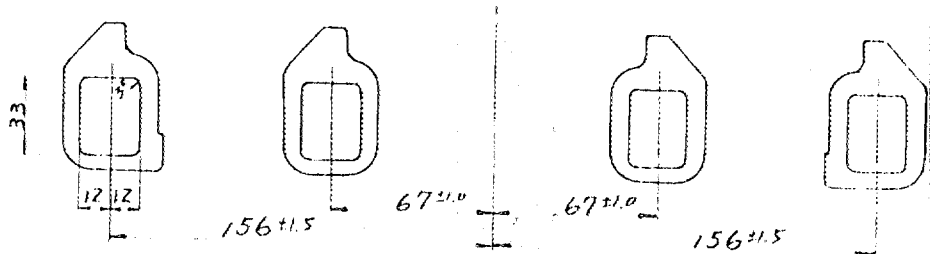
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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.

Dimensions mm



Make Mitsubishi

Model A 2 1

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DRIVE TRAIN

CLUTCH

- 260. Type of clutch Dry Single Plate 261. No. of plates 1
- 262. Dia. of clutch plates 18.5 cm inches
- 263. Dia. of linings, inside 12.7 cm in. outside 18.42 cm in.
- 264. Method of operating clutch Hydraulic

GEAR BOX (photograph H)

Mitsubishi Heavy Industries, Ltd.

- 270. Manual type, make Kyoto Machinery Works 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 Steering Column or 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	No. teeth
1	3.787				3.490	35/19x36/19	
	35/19 x 37/18						
2	2.379				2.211	35/19x30/25	
	35/19 x 31/24						
3	1.535				1.426	35/19x24/31	
	35/19 x 25/30						
4	1.000				1.000		
5							
6							
reverse	5.385				5.385	35/19x21/13x38/21	
	35/19x21/13x38/21						

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

FINAL DRIVE

- 290. Type of final drive Hypoid
- 291. Type of differential Straight bevel gear type
- 292. Type of limited slip differential (if fitted)
- 293. Final drive ratio 4.875 4.625
- Number of teeth 39/8 37/8



Make Mitsubishi

Model A 2 1

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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, 154, 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 and N.

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.



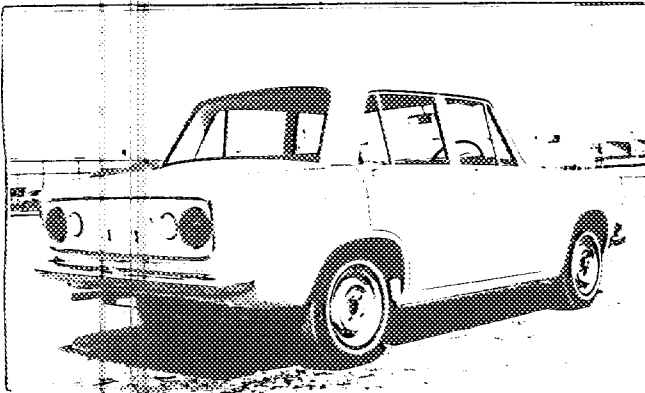
Make **Mitsubishi**

Model **A21**

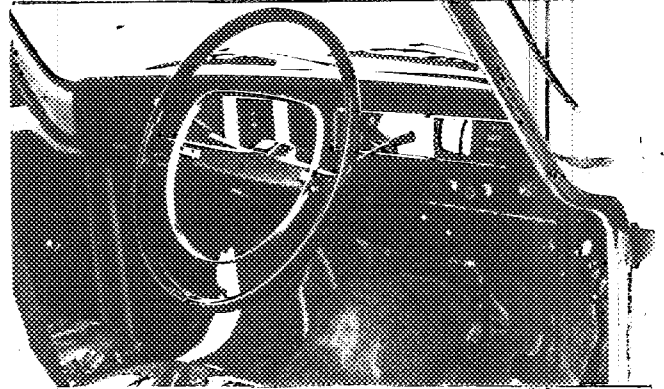
F.I.A. Rec. No.

Photograph

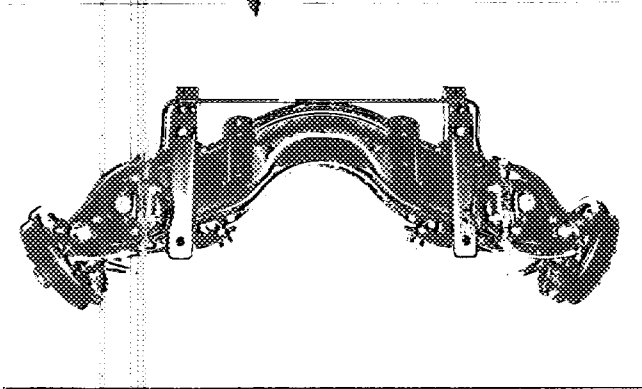
B, 3/4 view of car from rear.



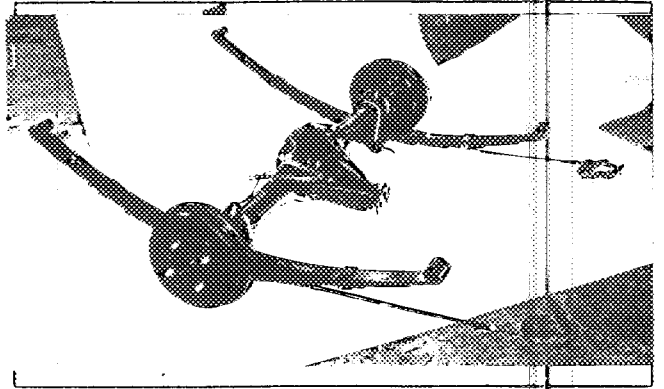
C, interior view of car through driver's door (open or removed) with dashboard



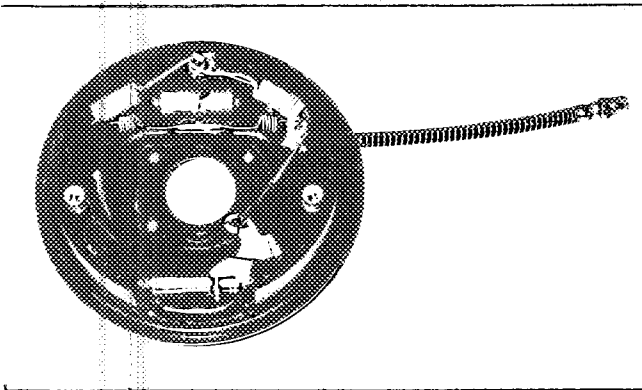
D, front axle complete, removed from car. Without wheels.



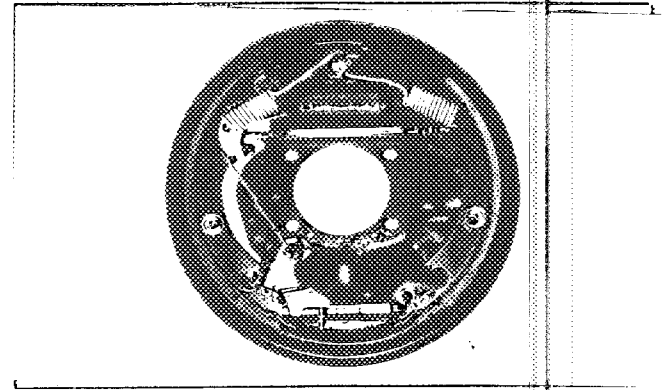
E, Rear axle complete without wheels, removed from car.



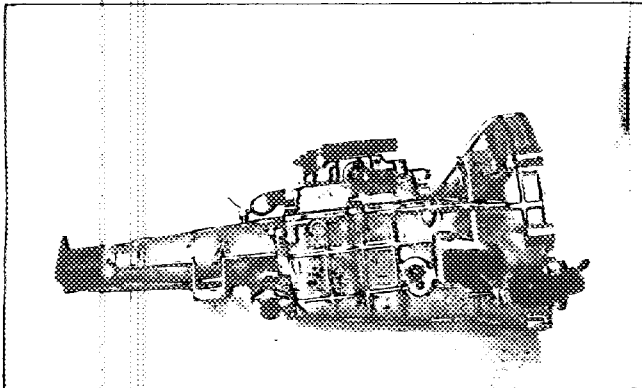
F, front brake, drum removed or disc with caliper(s)



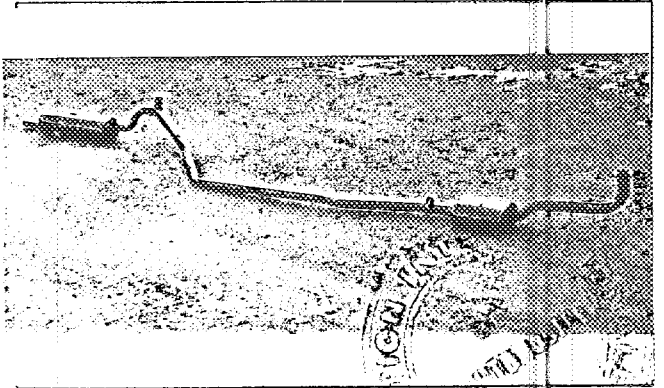
G, rear brake, drum removed or disc with caliper(s)



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold



Make **Mitsubishi**

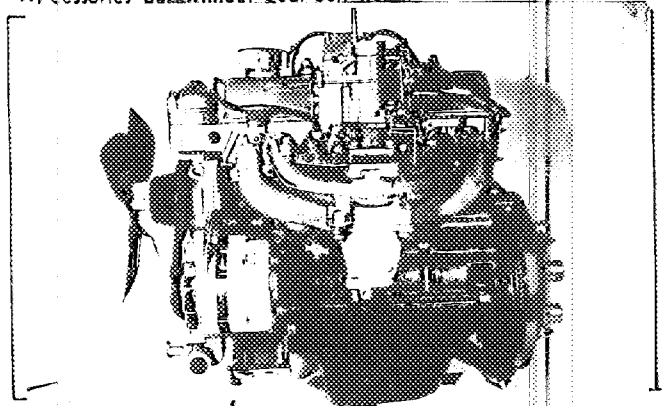
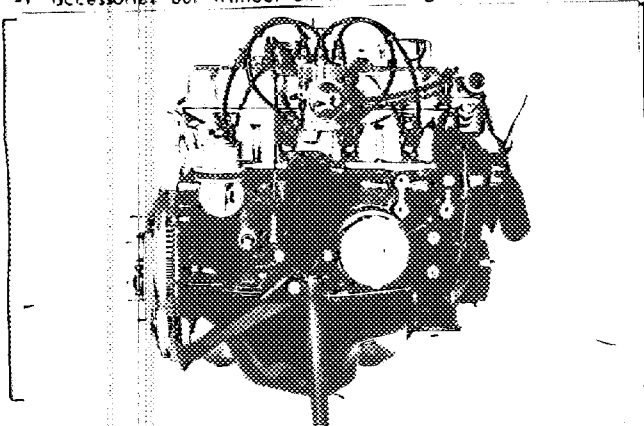
Model **A 2 1**

F. I. A. Reg. No

Photograph

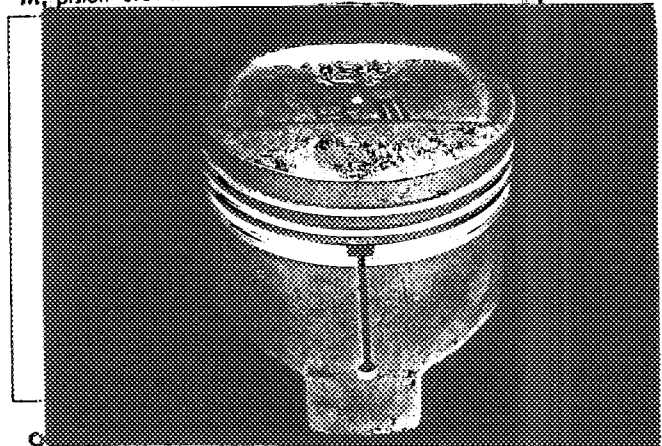
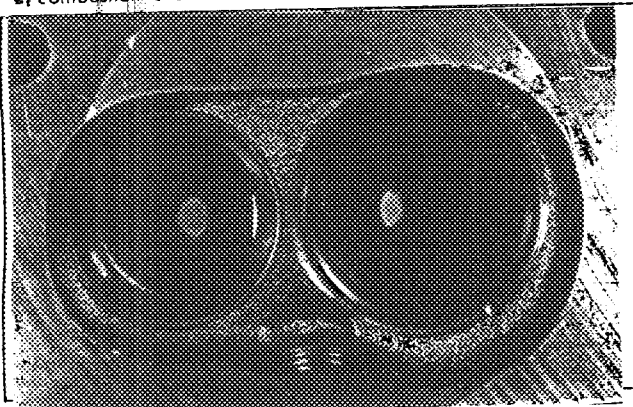
engine unit out of car, from right. With clutch and J, accessories but without air filter nor gear-box.

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

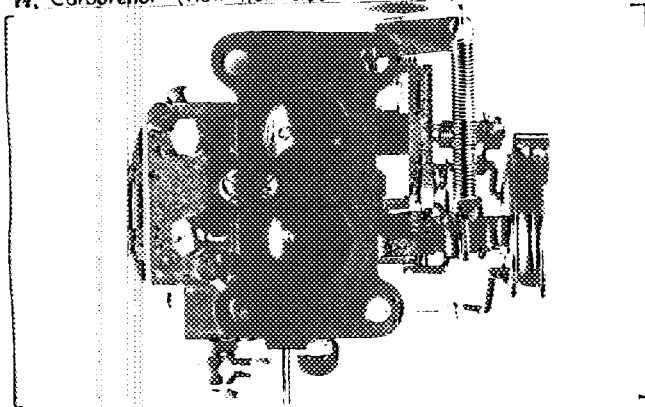
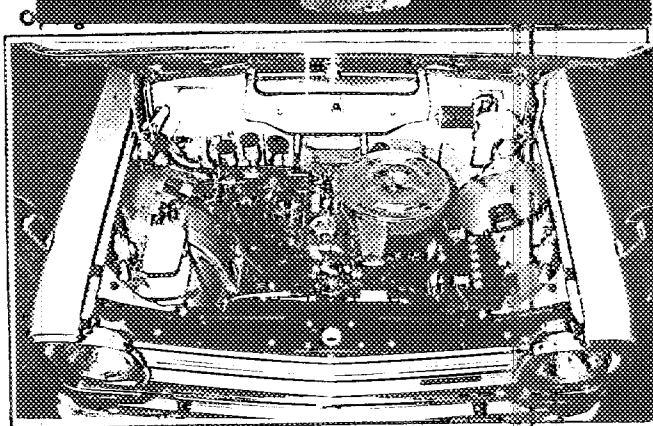


L, combustion chamber

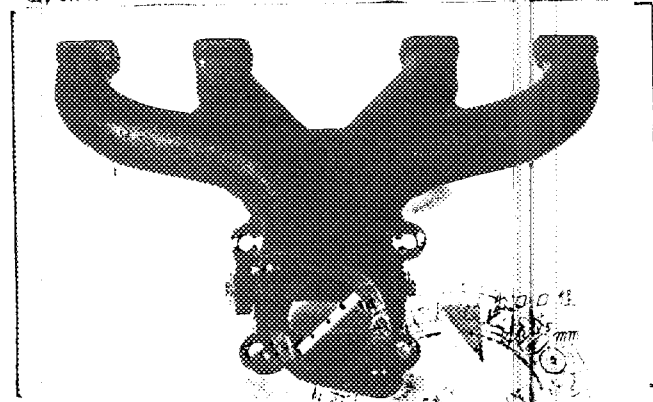
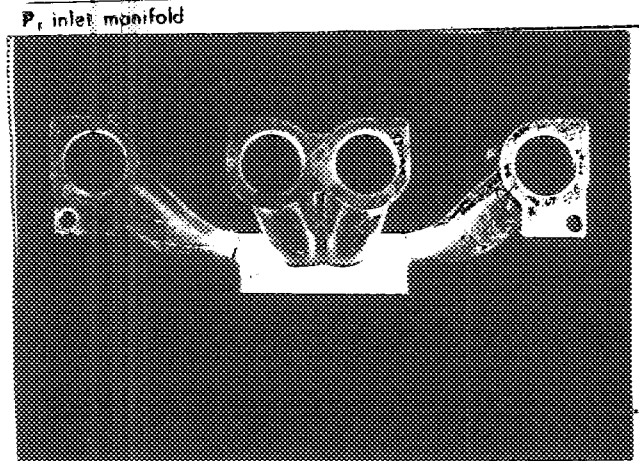
M, piston crown



N, Carburettor (view from side of manifold)



Q, exhaust manifold



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Make Mitsubishi

Model A 2 1

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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

Handwritten signature: 難波清江

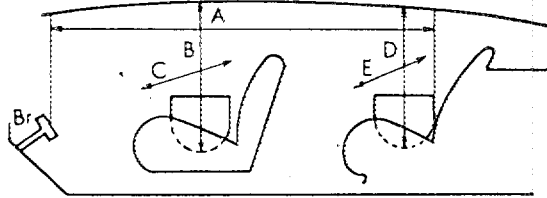
Yasuharu Nanba



Make Mitsubishi

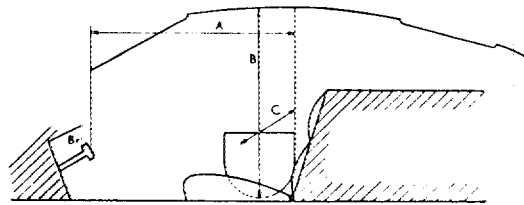
DIMENSIONS OF INTERIOR
(Conform to Art. 253 b of Appendix J)

For four seaters :



Minimum		Dimensions		
A	B	C	D	E
I62 cm	9I cm	I24 cm	9I cm	I24 cm

For two seaters :



Minimum		Dimensions
A	B	C
cm	cm	cm

