



# JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. 5344  
Group A

## FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer	Mitsubishi Heavy Industries, Ltd.	Cylinder-capacity	359 cm <sup>3</sup> 21.9 cu. in.
Serial No. of chassis	A101-0000001	Model	Mitsubishi A101GSS (MINICA '70)
Serial No. of engine	2G10-0000001	Manufacturer	Mitsubishi
Recognition is valid from	1/4/70	Manufacturer	Mitsubishi
		List	70/4

The manufacturing of the model described in this recognition form was started on Oct. 1969 and the minimum production of 5000 identical cars, in accordance with the specifications of this form was reached on Feb. 1970

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 **Mitsubishi**

Model **A101GSS**

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.

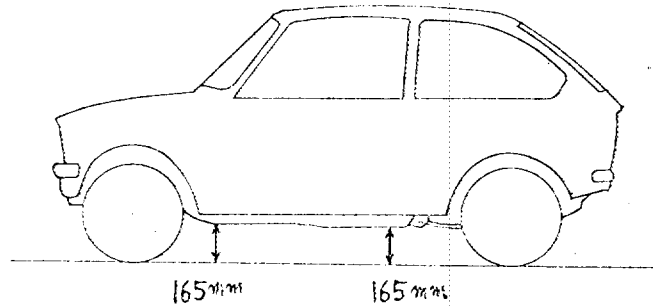
**CAPACITIES AND DIMENSIONS**

1. <u>Wheelbase</u>	2000	mm	78,7	inches
2. <u>Front track</u>	1125	mm	44.3	inches *
3. <u>Rear track</u>	1080	mm	42.5	inches *
4. Overall length of the car		299.5	cm	inches
5. Overall width of the car		129.5	cm	inches
6. Overall height of the car		132.5	cm	inches
7. <u>Capacity of fuel tank</u> (reserve included)				25 ltrs
	6.61	Gallon US		Gallon Imp.
8. Seating capacity				
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools				
	445	kg	980	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 <sup>2</sup>	1 gallon Imp.	-- 4.546 ltrs
1 cubic inch / pouce cube	-- 16.387 cm <sup>3</sup>	1 gallon US	-- 3.785 ltrs
1 pound / livre (lb)	-- 453.593 gr.	1 hundred weight (cwt)	-- 50.802



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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 **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 - ~~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 :  
**9.0 x 2 kg** lbs
43. Rear seats, type of seats and upholstery **Bench, Vinyl**
44. Front bumper, material (s) **Steel** Weight **1.8 kg** lbs
45. Rear bumper, material (s) **Steel** Weight **1.8 kg** lbs

**WHEELS**

50. Type **Pressed Steel**
51. Weight (per wheel, without tyre) **2.3 kg** lbs
52. Method of attachment **4 nuts**
53. Rim diameter **254 mm** **10 inches**
54. Rim width **89 mm** **3.5 inches**

**STEERING**

60. Type **Recirculating Ball**
61. Servo-assistance : ~~yes~~ - no
62. Number of turns of steering wheel from lock to lock **3.1**
63. In case of servo-assistance



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**SUSPENSION**

- 70. Front suspension (photogr. D), type Independent, Mcpherson
- 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 Rigid
- 79. Type of spring Coil
- 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)	mm	$\frac{3}{4}$ in.	mm	$\frac{3}{4}$ in.
<b>Drum brakes</b>				
95. Inside diameter	180 mm	in.	180 mm	in.
96. Length of brake linings	156 mm	in.	156 mm	in.
97. Width of brake linings	35 mm	in.	35 mm	in.
98. Number of shoes per brake	2		2	
99. Total area per brake	10900 mm <sup>2</sup>	sq. in.	10900 mm <sup>2</sup>	sq. in.
<b>Disc brakes</b>				
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 <sup>2</sup>	sq. in.	mm <sup>2</sup>	sq. in.



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ENGINE (photographs J and K)

- 130. Cycle 2
- 131. Number of cylinders 2
- 132. Cylinder arrangement In-Line
- 133. Bore 62 mm 2.44 in.
- 134. Stroke 59.6 mm 2.35 in.
- 135. Capacity per cylinder 179.5 cm<sup>3</sup> 10.95 cu. in.
- 136. Total cylinder-capacity 359 cm<sup>3</sup> 21.9 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 2
- 141. Number of exhaust ports 2
- 142. Compression ratio 10.0
- 143. Volume of one combustion chamber 19.8 cm<sup>3</sup> 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 45 mm inches
- 147. Crankshaft : ~~roller~~ / stamped
- 148. Type of crankshaft : ~~roller~~ / separate
- 149. Number of crankshaft main bearings 3
- 150. Material of bearing cap
- 151. System of lubrication : dry sump / ~~oil sump~~
- 152. Capacity, lubricant 3 ltrs pts quarts US
- 153. Oil cooler : ~~yes~~ / no
- 154. Method of engine cooling Water
- 155. Capacity of cooling system 2.5 ltrs pints quarts US
- 156. Cooling fan (if fitted), dia. 22 cm inches
- 157. Number of blades of cooling fan 2

Bearings

- 158. Crankshaft main, type Ball Dia. 30 mm in.
- 159. Connecting rod big end, Neele Roller Dia. 22 mm in.

Weights

- 160. Flywheel (clean) 4.8 kg lbs
- 161. Flywheel with clutch (all turning parts) 6.8 kg lbs
- 162. Crankshaft 4.7 kg lbs
- 163. Connecting rod 0.17 kg lbs
- 164. Piston with rings and pin 0.28 kg lbs



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**FOUR STROKE ENGINES**

170. Number of camshafts 171. Location  
172. Type of camshaft drive  
173. Type of valve operation

**INLET** (see page 8) \*

180. Material(s) of inlet manifold **Aluminum Alloy**  
181. Diameter of valves mm inches  
182. Max. valve lift mm in. 183. Number of valve springs  
184. Type of spring 185. Number of valves per cylinder mm inches  
186. Tappet clearance for checking timing (cold)  
187. Valves open at (with tolerance for tappet clearance indicated)  
188. Valves close at (with tolerance for tappet clearance indicated)  
189. Air filter, type **Dry**

**EXHAUST** (see page 8)

195. Material (s) of exhaust manifold **Cast Iron**  
196. Diameter of valves mm inches  
197. Max. valve lift mm in. 198. Number of valve springs  
199. Type of spring 200. Number of valves per cylinder mm inches  
201. Tappet clearance for checking timing (cold)  
202. Valves open at (with tolerance for tappet clearance indicated)  
203. Valves close at (with tolerance for tappet clearance indicated)

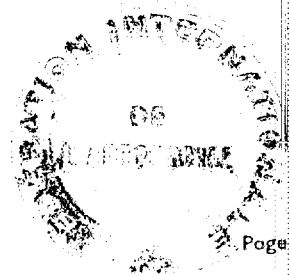
**CARBURETION** (photograph N)

210. Number of carburetors fitted **2** 211. Type **Side Draft**  
212. Make **MIKUNI** 213. Model **BS 32**  
214. Number of mixture passages per carburetor **1**  
215. Flange hole diameter of exit port(s) of carburetor **32** mm in.  
216. Minimum dimensions of mixture passage (s) with piston, at max. height (example: SU) **24.7** 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

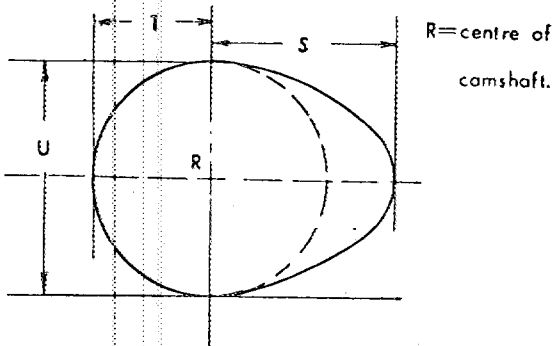
- 230. Fuel pump : mechanical ~~xxxxxxx~~
- 232. Type of ignition system Make and break
- 234. No. of ignition coils 1
- 236. Generator, type: ~~xxxxxx~~/alternator-number fitted 1
- 238. Voltage of generator 12 volts
- 240. location Engine Room
- 241. Voltage of battery 12 volts

- 231. No. fitted 1
- 233. No. of distributors 1
- 235. No. of spark plugs per cylinder 1
- 237. Method of drive V Belt
- 239. Battery, number 1

ENGINE AND CAR PERFORMANCES (as declared by manufacturer in catalogue)

- 250. Max. engine output 38 PS (type of horsepower: JIS ) at 7000 rpm
- 251. Maximum rpm 7500 output at that figure 33PS
- 252. Maximum torque 3.9 kgm at 6500 rpm
- 253. Maximum speed of the car 120 km/hour miles / hour

255.

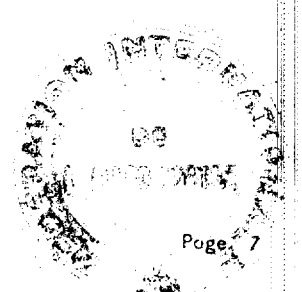


Inlet cam

- S = mm inches
- T = mm inches
- U = mm inches

Exhaust cam

- S = mm inches
- T = mm inches
- U = mm inches

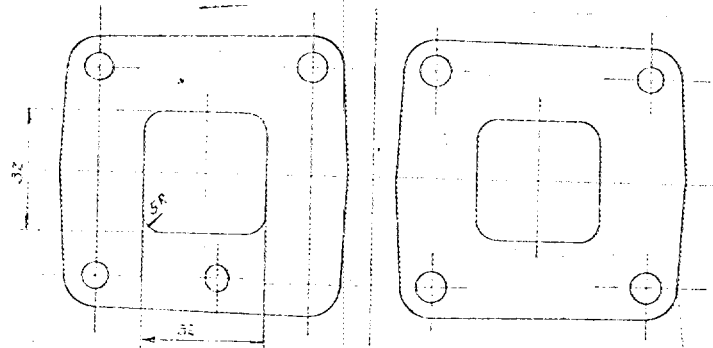


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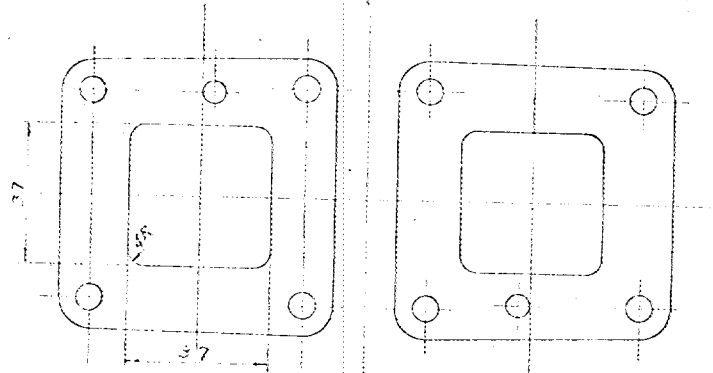
Model A101GSS

F.I.A. Rec. No.

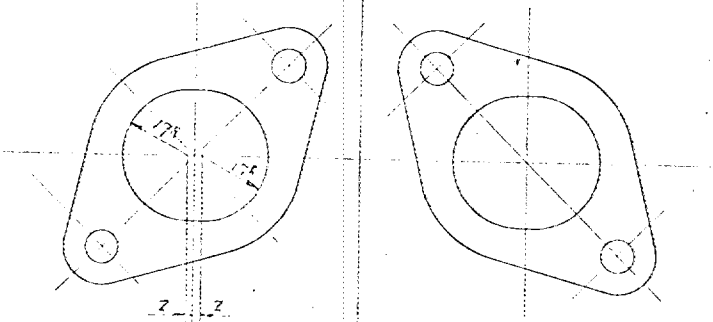
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



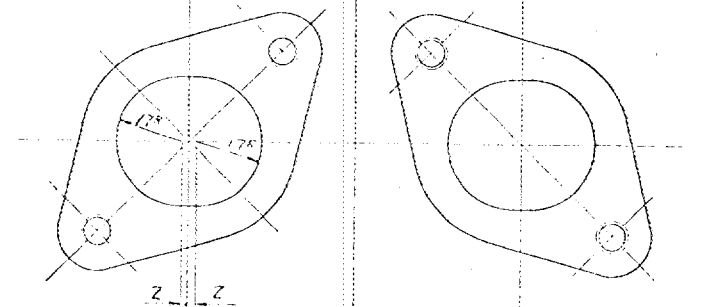
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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

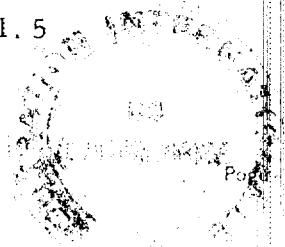


Drawing of exit to exhaust port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



Tolerance:  $\pm 1.5$

Unit ; mm





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**DRIVE TRAIN**

**CLUTCH**

- 260. Type of clutch **Single Dry** 261. No. of plates **1**
- 262. Dia. of clutch plates **15** cm inches
- 263. Dia. of linings, inside **11** cm in. outside **15** cm in.
- 264. Method of operating clutch **Mechanical**

**GEAR BOX** (photograph H)

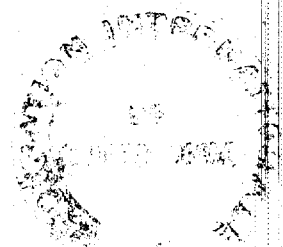
- 270. Manual type, make **Mitsubishi** Method of operation **Mechanical**
- 271. No. of gear-box ratios forward **4** 272. Synchronized forward ratios **1, 2, 3, 4**
- 273. Location of gear-shift **Floor**
- 274. Automatic, make type
- 275. No. of forward ratios 276. Location of gear-shift

277.	Manual			Automatic			Alternative manual <del>Automatic</del>			
	Ratio	No.	teeth	Ratio	No.	teeth	Ratio	No.	teeth	
1	3,576	$\frac{33}{17}$	$\times \frac{35}{19}$				3,576	$\frac{33}{17}$	$\times \frac{35}{19}$	
2	2,265	$\frac{33}{17}$	$\times \frac{28}{24}$				2,096	$\frac{33}{17}$	$\times \frac{27}{25}$	
3	1,473	$\frac{33}{17}$	$\times \frac{22}{29}$				1,249	$\frac{33}{17}$	$\times \frac{21}{30}$	
4	1,000						1,000			
5										
6										
reverse	4,271	$\frac{33}{17}$	$\times \frac{17}{15}$	$\times \frac{33}{17}$			4,271	$\frac{33}{17}$	$\times \frac{17}{15}$	$\times \frac{33}{17}$

- 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 **Bevel gear**
- 292. Type of limited slip differential (if fitted)
- 293. Final drive ratio **5.143** **5.429**
- Number of teeth **36/7** **38/7**



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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

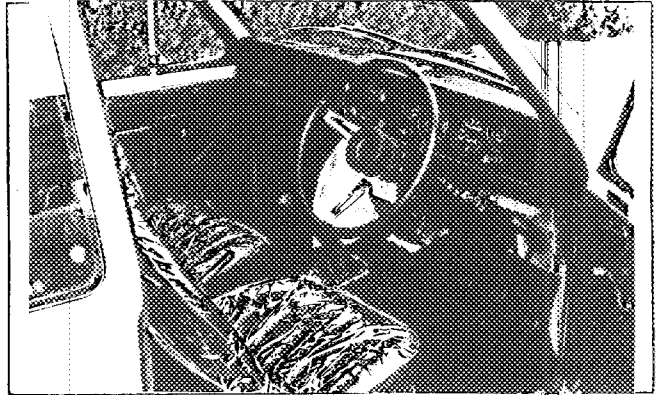
During the scrutineering of cars entered in group 4 (Sportscars) only the following items of the present recognition form are to be taken into consideration : 1, 2, 3, 9, 20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 147, 148, 149, 150, 158, 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.

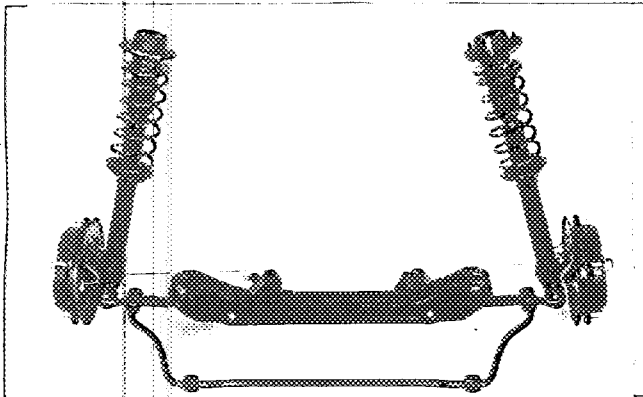
Photograph

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

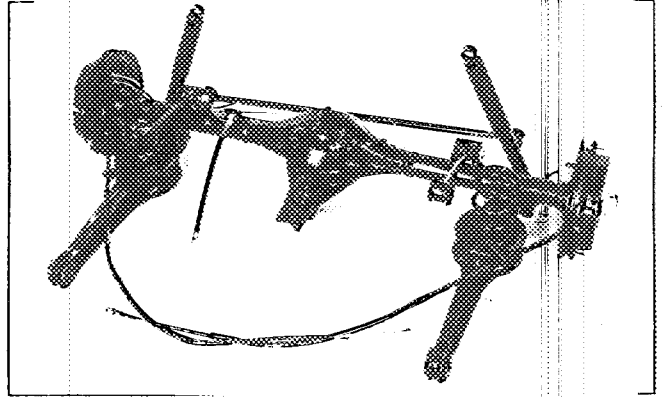
B, 3/4 view of car from rear



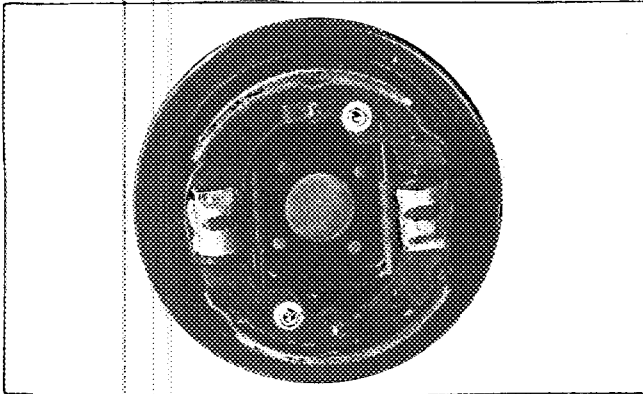
D, front axle complete, removed from car. Without wheels.



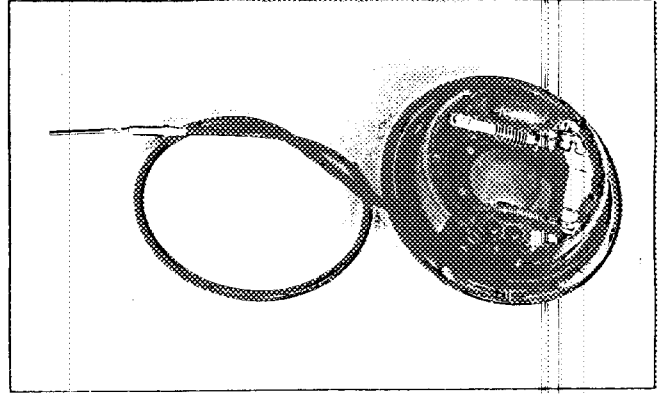
E, Rear axle complete without wheels, removed from car.



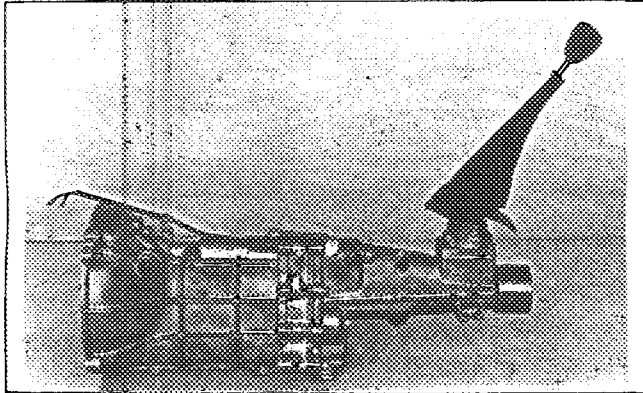
F, front brake, drum removed or disc with calipers



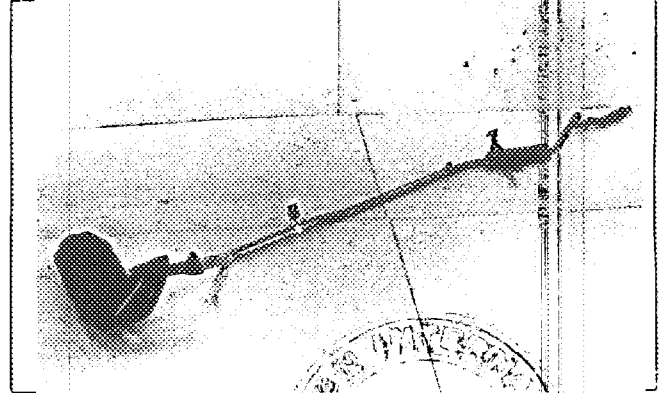
G, rear brake, drum removed or disc with calipers



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold



678 1776-027

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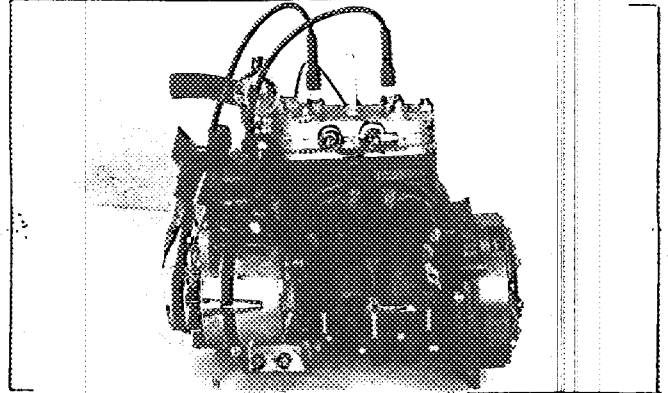
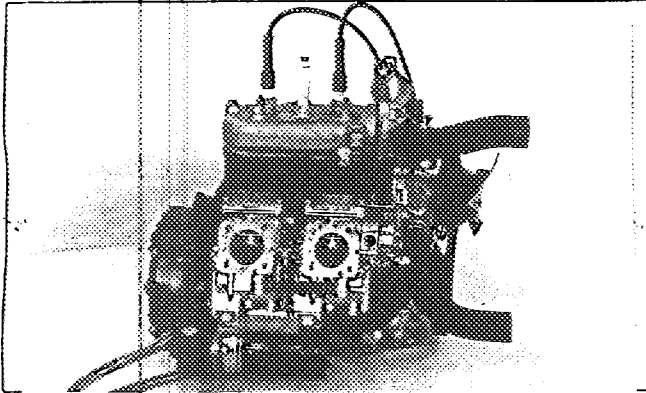
Model A101GSS

F. I. A. Rec. No

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

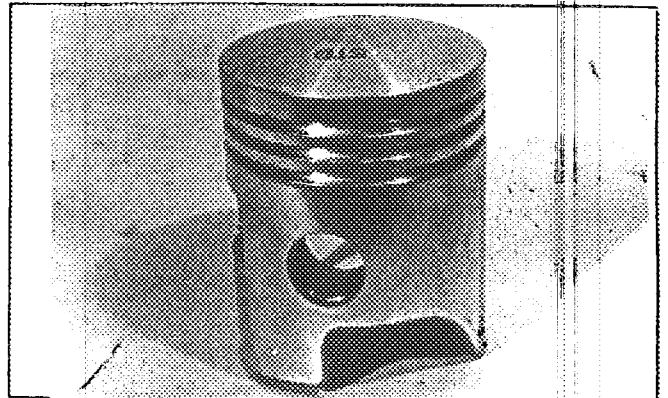
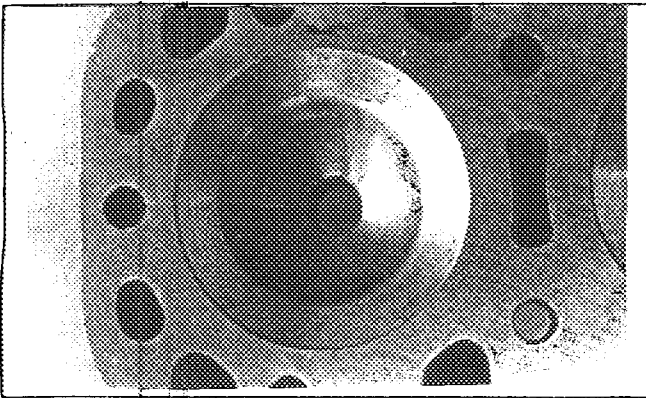
Photograph

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



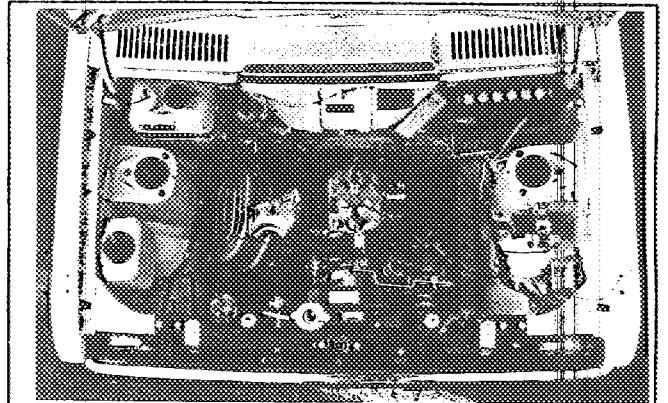
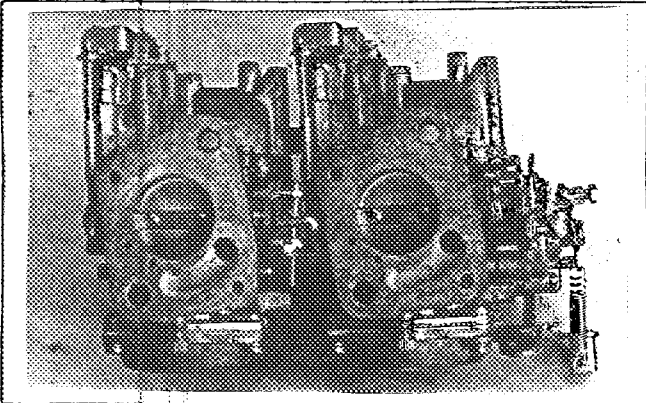
L, combustion chamber

M, piston crown



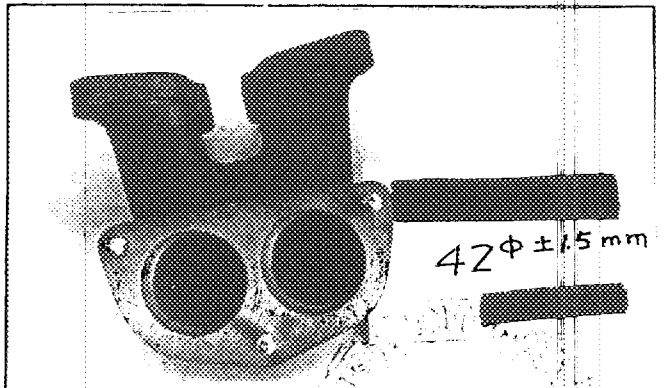
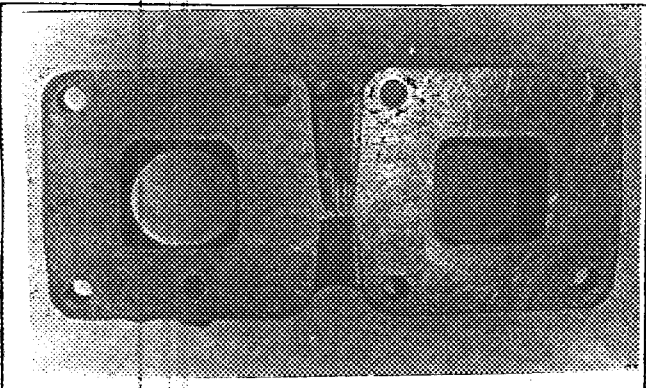
N, Carburettor (view from side of manifold)

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



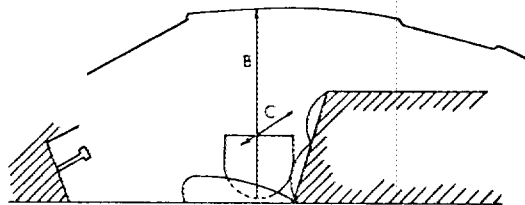
P, inlet manifold

Q, exhaust manifold



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

For two seats:



Minimum Dimensions	
B	C
95 cm	111 cm

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TWO STROKE ENGINES

300. System of cylinder scavenging Loop Type

301. Type of lubrication Auto-mix

302. Inlet ports, ~~Reed Valve Type~~ Reed Valve Type

303. Height inlet port mm in. 304. Area mm<sup>2</sup> sq. in.

305. Exhaust ports, length measured around cylinder wall 41 mm inches

306. Height exhaust port 23.5 mm in. 307. Area 840 mm<sup>2</sup> sq. in.

308. Transfer port, length measured around cylinder wall 15.7 x 2, 22 x 2, 19.5 x 1 mm inches

309. Height transfer port 13 mm in. 310. Area 200x2, 282x2 mm<sup>2</sup> sq. in.

311. Piston ports, length measured around piston 250x1 24 mm inches

312. Height piston port 18 mm in. 313. Area 430 mm<sup>2</sup> sq. in.

314. Method of precompression Crank Case 315. Precompression cyl.: ~~xs~~ /no

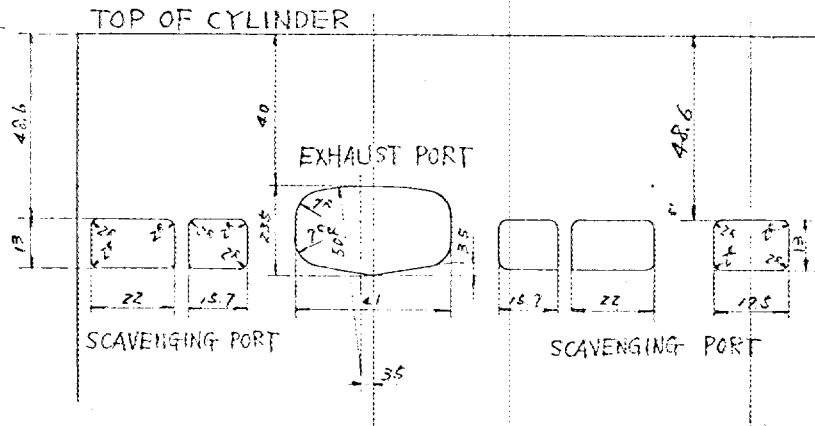
316. Bore 62 mm inches 317. Stroke 59.6 mm inches

318. Distance from top of cyl. block to highest point of exhaust port : 40.0 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 : 48.6 mm inches

321. Drawing of cylinder ports.



330. Supercharging—state full details hereafter :

Tolerance; + 1.5

Unit ; mm

JAPAN AUTOMOBILE FEDERATION

Handwritten signature: 藤山博史

Hiroshi Niwayama