



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. 5351
Group 1

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	1088 cm ³ 66.4 cu. in.
chassis	A82 - 500001	Model	Mitsubishi A82SS (COLT11F)
Serial No. of engine	KE44 - 100001	Manufacturer	Mitsubishi
Recognition is valid from	1/1/70	Manufacturer	Mitsubishi
		List	70/4

The manufacturing of the model described in this recognition form was started on Feb. 19 69 and the minimum production of 5000 identical cars, in accordance with the specifications of this form was reached on Jan. 19 70

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 **A82SS**

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.

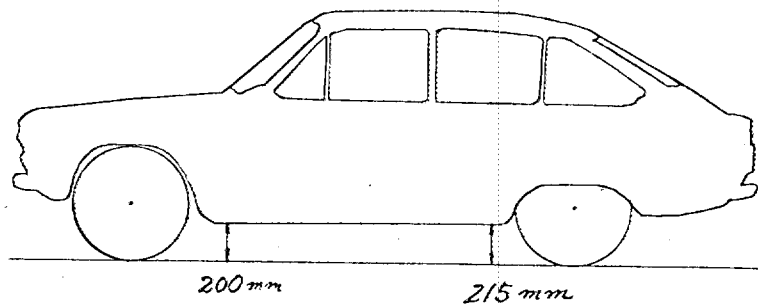
CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2200 mm	86.6 inches
2. <u>Front track</u>	1240 mm	48.8 inches *
3. <u>Rear track</u>	1185 mm	46.7 inches *
4. Overall length of the car	374 cm	inches
5. Overall width of the car	145 cm	inches
6. Overall height of the car	138.5 cm	inches
7. <u>Capacity of fuel tank (reserve included)</u>		40 ltrs
	10.6 Gallon US	Gallon Imp.
8. Seating capacity	5	
9. <u>Weight, total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:</u>		
	720 kg	1585 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.

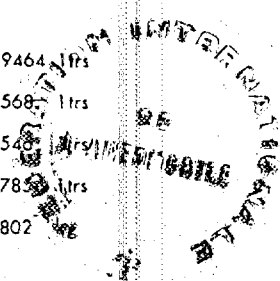
Specify ground clearance in relation to the track and give drawing of two fixed points of the vehicle's structure at which measurements are taken.

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



Make Mitsubishi

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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 - ~~no~~
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 :
10.5x2 kg lbs
43. Rear seats, type of seats and upholstery Bench, Vinyl
44. Front bumper, material (s) Steel Weight 3.7 kg lbs
45. Rear bumper, material (s) Steel Weight 3.1 kg lbs

WHEELS

50. Type Pressed Steel
51. Weight (per wheel, without tyre) 5.8 kg lbs
52. Method of attachment 5 nuts
53. Rim diameter 329.4 mm 13 inches
54. Rim width 102 mm 4 inches

STEERING

60. Type Recirculating ball
61. Servo-assistance : ~~yes~~ - no
62. Number of turns of steering wheel from lock to lock 3.2
63. In case of servo-assistance



SUSPENSION

- 70. Front suspension (photogr. D), type Independent, Wishbones
- 71. Type of spring Leaf
- 72. Stabiliser (if fitted)
- 73. Number of shockabsorbers 2
- 74. Type Hydraulic, Telescopic
- 78. Rear suspension (photogr. E), type Rigid
- 79. Type of spring 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 2

	FRONT			REAR		
93. Number of cylinders per wheel	1			1		
94. Bore of wheel cylinder (s)	50.80	mm	in.	19.05	mm	in.
Drum brakes						
95. Inside diameter		mm	in.	203	mm	in.
96. Length of brake linings		mm	in.	221	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.	15450	mm ²	sq. in.
Disc brakes						
100. Outside diameter	225	mm	in.		mm	in.
101. Thickness of disc	10	mm	in.		mm	in.
102. Length of brake linings	52	mm	in.		mm	in.
103. Width of brake linings	40	mm	in.		mm	in.
104. Number of pads per brake	2					
105. Total area per brake	4160	mm ²	sq. in.		mm ²	sq. in.



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ENGINE (photographs J and K)

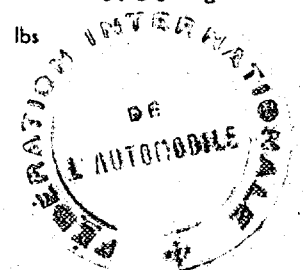
- 130. Cycle 4
- 131. Number of cylinders 4
- 132. Cylinder arrangement In line
- 133. Bore 73 mm 2.87 in.
- 134. Stroke 65 mm 2.56 in.
- 135. Capacity per cylinder 272 cm³ 16.60 cu.in.
- 136. Total cylinder-capacity 1088 cm³ 66.40 cu.in.
- 137. Material (s) of cylinder block Cast iron
- 138. Material (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 10.0
- 143. Volume of one combustion chamber 30.2 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 35.5 mm 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 pts quarts US
- 153. Oil cooler : ~~yes~~ / no
- 154. Method of engine cooling Water
- 155. Capacity of cooling system 4.3 ltrs pints quarts US
- 156. Cooling fan (if fitted), dia. 30 cm inches
- 157. Number of blades of cooling fan 3

Bearings

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

Weights

- 160. Flywheel (clean) 6.5 kg lbs
- 161. Flywheel with clutch (all turning parts) 10.3 kg lbs
- 162. Crankshaft 9.5 kg lbs
- 163. Connecting rod 0.50 kg lbs
- 164. Piston with rings and pin 0.32 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 Pushrod and rocker

INLET (see page 8) *

- 180. Material(s) of inlet manifold Aluminium alloy
- 181. Diameter of valves 35 mm 1.38 inches
- 182. Max. valve lift 8.45 mm 0.33 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 inches
- 187. Valves open at (with tolerance for tappet clearance indicated) B. T. D. C. 35 deg. \pm 7 deg.
- 188. Valves close at (with tolerance for tappet clearance indicated) A. B. D. C. 65 deg. \pm 7 deg.
- 189. Air filter, type Dry

EXHAUST (see page 8)

- 195. Material (s) of exhaust manifold Cast iron
- 196. Diameter of valves 28 mm 1.10 inches
- 197. Max. valve lift 8.35 mm 0.33 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) 0.15 mm inches
- 202. Valves open at (with tolerance for tappet clearance indicated) B. B. D. C. 75 deg. \pm 7 deg.
- 203. Valves close at (with tolerance for tappet clearance indicated) A. T. D. C. 25 deg. \pm 7 deg.

CARBURETION (photograph N)

- 210. Number of carburetors fitted 2 211. Type Side draft
- 212. Make HITACHI 213. Model HJK 32W
- 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) 23 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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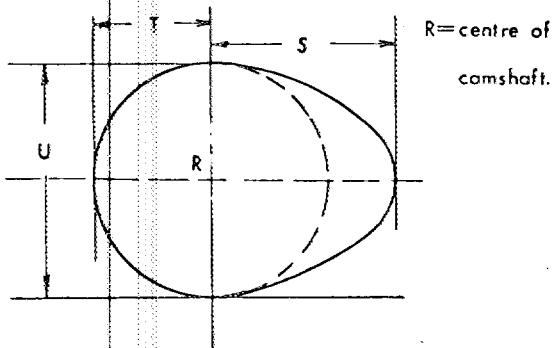
ENGINE ACCESSORIES

- 230. Fuel pump : mechanical ~~XXXX~~ 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 73PS (type of horsepower: JIS) at 6300 rpm
- 251. Maximum rpm 6600 output at that figure 72PS
- 252. Maximum torque 9.0 kgm. at 4500 rpm
- 253. Maximum speed of the car 155 km/hour miles / hour

255.



Inlet cam

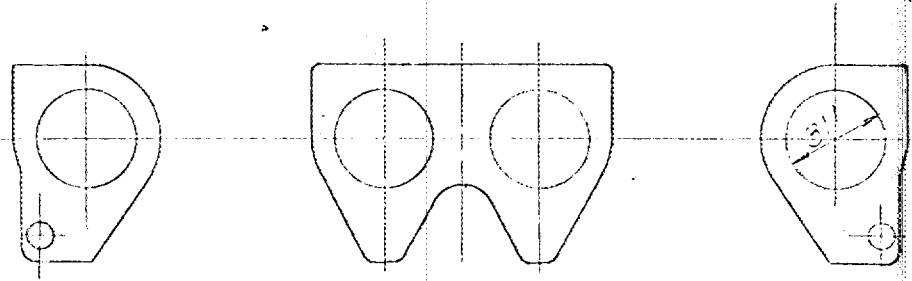
S =	20.7	mm	0.815	inches
T =	15.0	mm	0.591	inches
U =	30.0	mm	1.181	inches

Exhaust cam

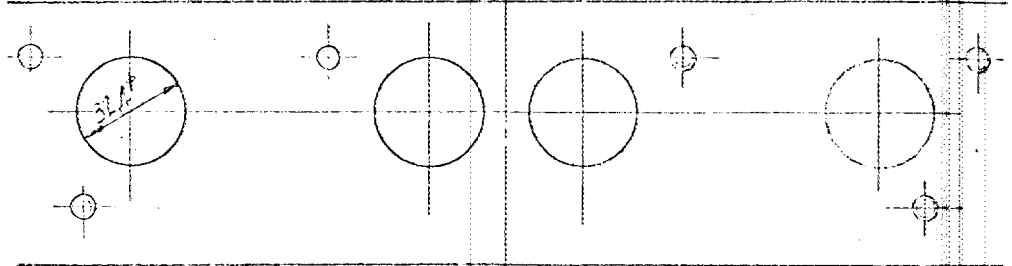
S =	20.7	mm	0.815	inches
T =	15.0	mm	0.591	inches
U =	30.0	mm	1.181	inches



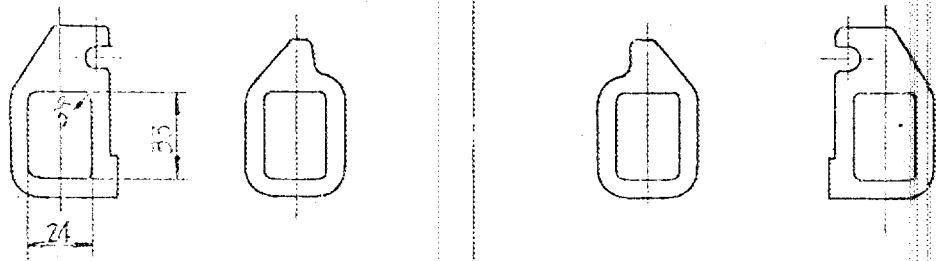
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



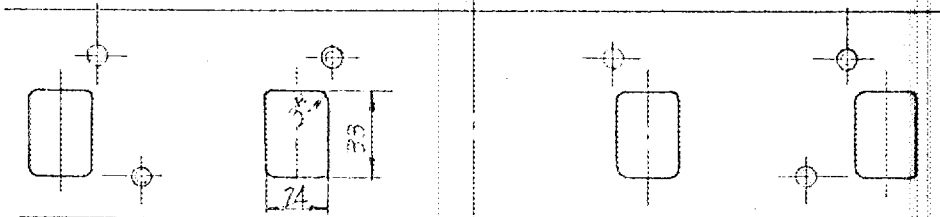
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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.



Tolerance; ± 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 18.7 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)

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		Alternative	
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	3.787	$\frac{35}{19} \times \frac{37}{18}$			3.221	$\frac{34}{20} \times \frac{36}{19}$		
2	2.379	$\frac{35}{19} \times \frac{31}{24}$			2.040	$\frac{34}{20} \times \frac{30}{25}$		
3	1.535	$\frac{35}{19} \times \frac{25}{30}$			1.360	$\frac{34}{20} \times \frac{24}{30}$		
4	1.000				1.000			
5								
6								
reverse	5.243	$\frac{35}{19} \times \frac{21}{13} \times \frac{37}{21}$			4.838	$\frac{34}{20} \times \frac{21}{13} \times \frac{37}{21}$		

278. Overdrive, type

279. Forward gears on which overdrive can be selected

280. Overdrive ratio

FINAL DRIVE

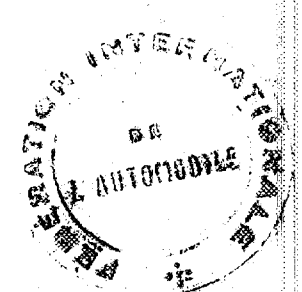
290. Type of final drive Hypoid

291. Type of differential Bevel Gear

292. Type of limited slip differential (if fitted)

293. Final drive ratio 4.222, 4.625

Number of teeth 38/9, 37/8



Make Mitsubishi

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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.

GRI WHEELS

- | | | | |
|-----|----------------------------------|---------------|------------------------|
| 50. | Type | Pressed Steel | |
| 51. | Weight (per wheel, without tyre) | 6.1 kg | |
| 52. | Method of attachment | 5 nuts | |
| 53. | <u>Rim diameter</u> | 329.4 mm | 13 inches |
| 54. | <u>Rim width</u> | 114 mm | 4 $\frac{1}{2}$ inches |



Make Mitsubishi

Model A82SS

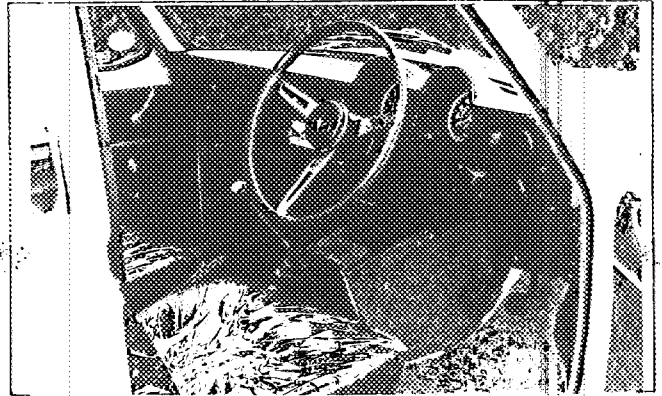
F. I. A. Rec. No.

Photograph

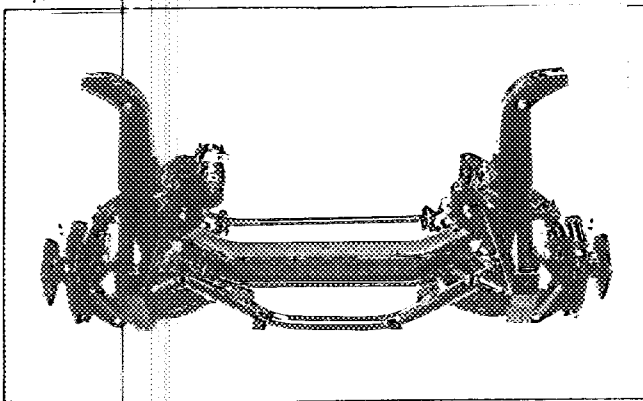
B, 3/4 view of car from rear



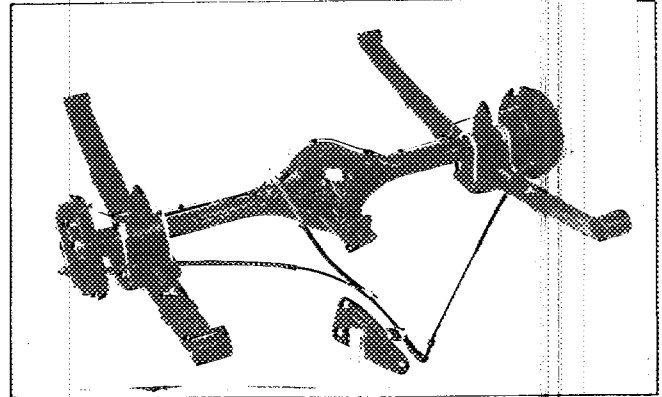
C, interior view of car through driver's door (open or removed) with dashboard



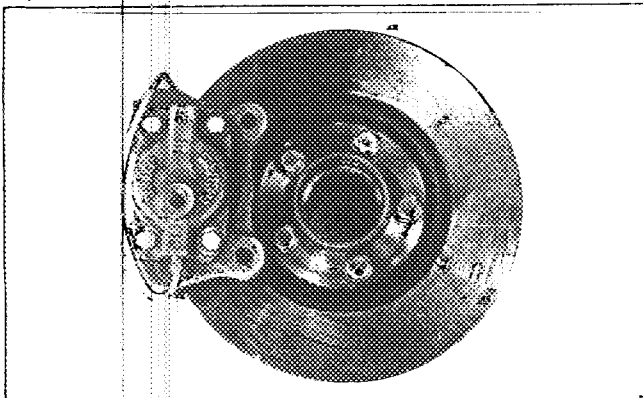
D, front axle complete, removed from car. Without wheels.



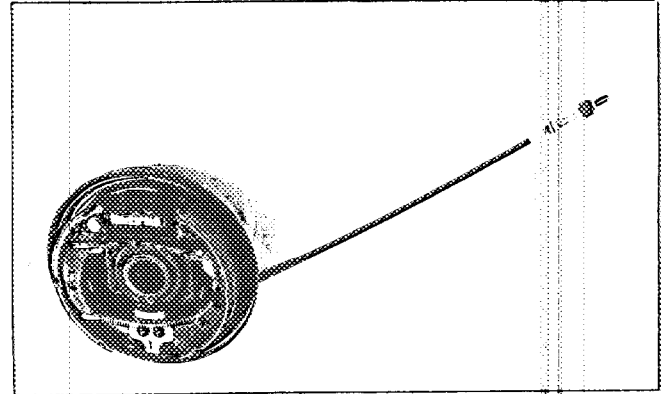
E, Rear axle complete without wheels, removed from car.



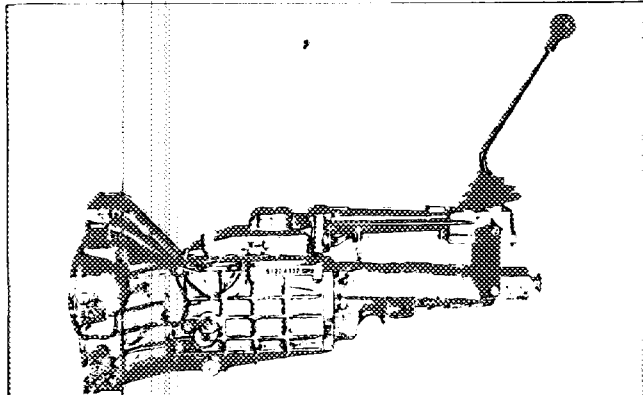
F, front brake, drum removed or disc with calipers



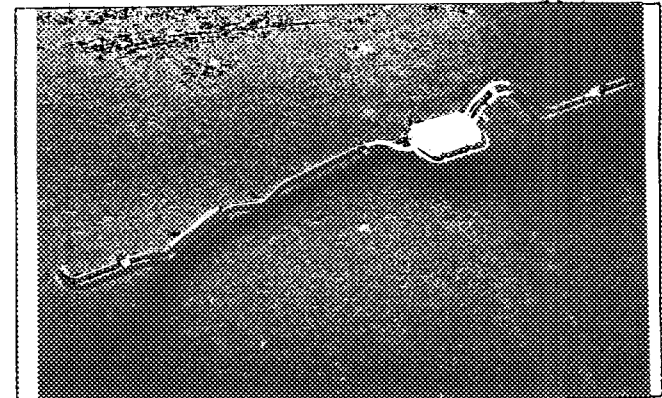
G, rear brake, drum removed or disc with calipers



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold



STATE OF MISSISSIPPI
LABORATORY

Make **Mitsubishi**

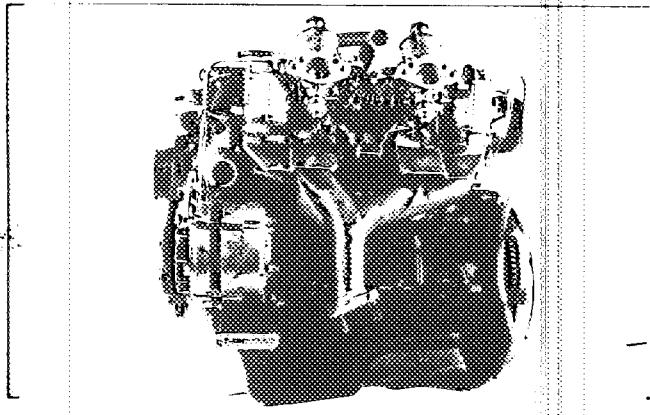
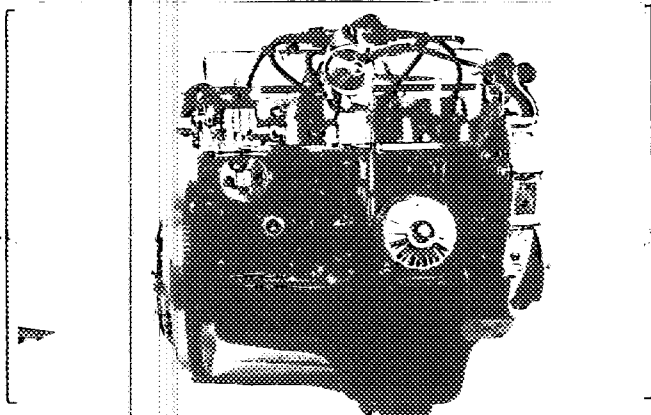
Model **A82SS**

F. I. A. Rec. No

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

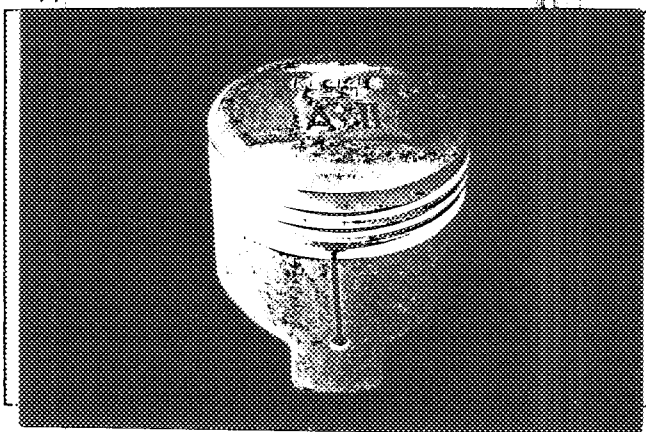
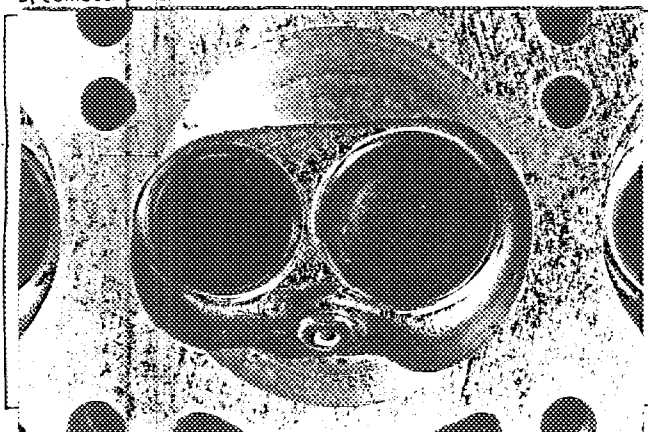
Photograph

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



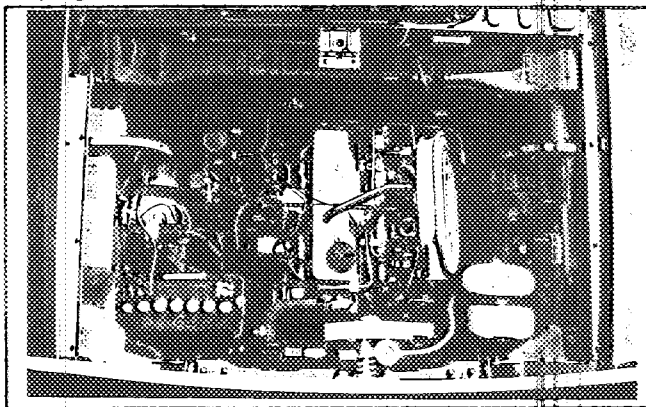
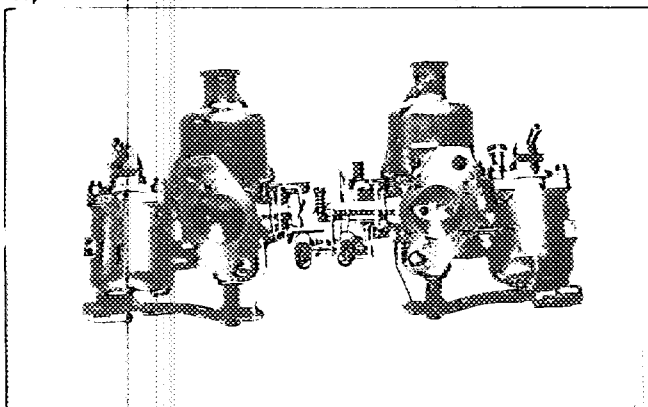
L, combustion chamber

M, piston crown



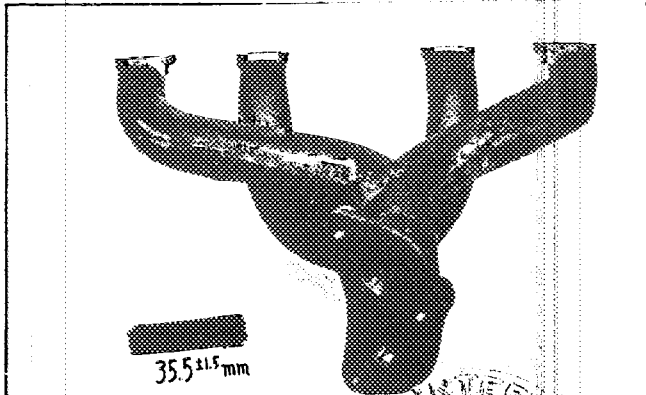
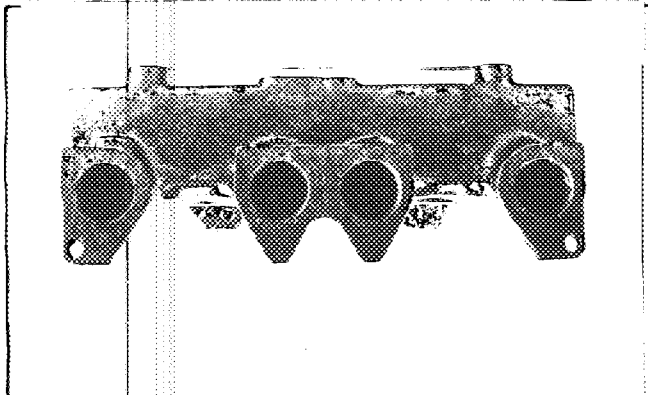
N, Carburettor (view from side of manifold)

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



P, inlet manifold

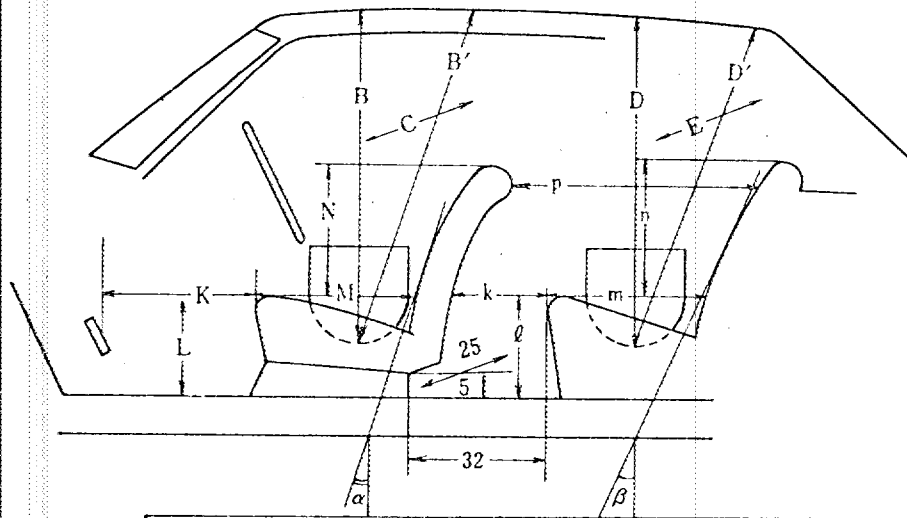
Q, exhaust manifold



35.5 ± 0.5 mm

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	97	15°	125	93	94	22°	123

Minimum Dimensions (cm)										
L	ℓ	M	m	N	n	k+m	p	k	k+l+m	K+L+M
29	34	43	45	42	36	62	62	17	96	121
0.9L = 26.1		0.85M = 36.6		0.8N = 33.6		0.8(k+m) = 49.6		(15)	(95)	(120)



Make Mitsubishi

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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

尼山博史

Hiroshi Niwayama

