



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. *1445*
Group *2-Touring*

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer **Mitsubishi Heavy Industries, Ltd.** Model **Mitsubishi A25-Sedan** Cylinder-capacity **1498 cm³ 91.5 cu. in.**
 Serial No. of chassis **A25-00001** Manufacturer **Mitsubishi Heavy Industries Ltd.**
 Serial No. of engine **KE45-10001** Manufacturer **Mitsubishi Heavy Industries Ltd.**
 Recognition is valid from *1st Nov. 1966* List *15/1* September 1965 and the minimum production of
 The manufacturing of the model described in this recognition form was started on 1965 and the minimum production of
 1000 identical cars, in accordance with the specifications of this form was reached on December 1965

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

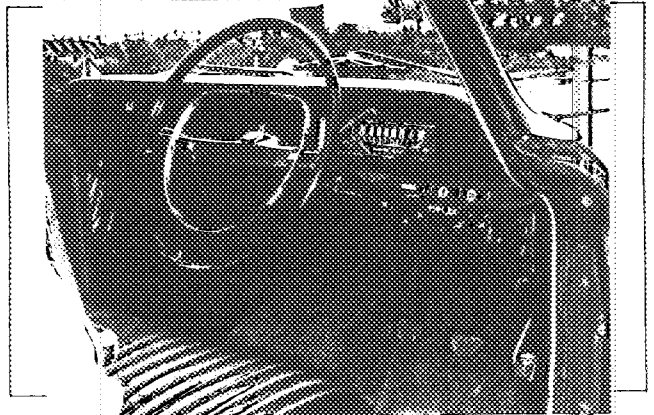
[Handwritten signature]

Photograph

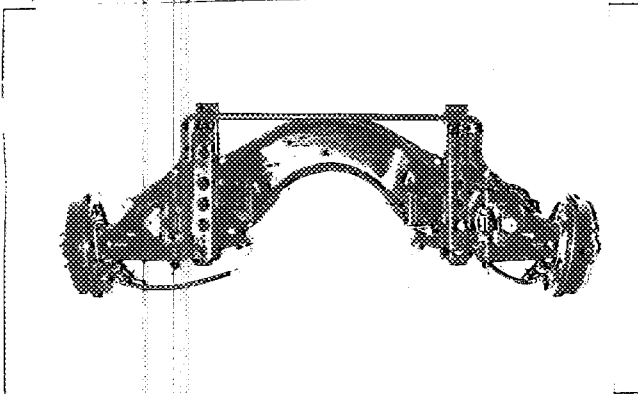
B, 3/4 view of car from rear



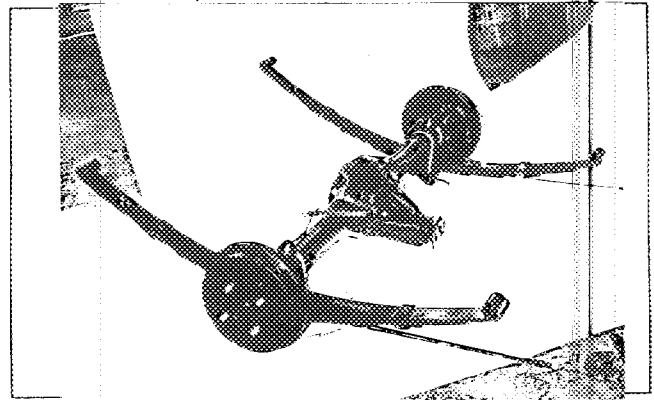
C, interior view of car through driver's door (open or removed)



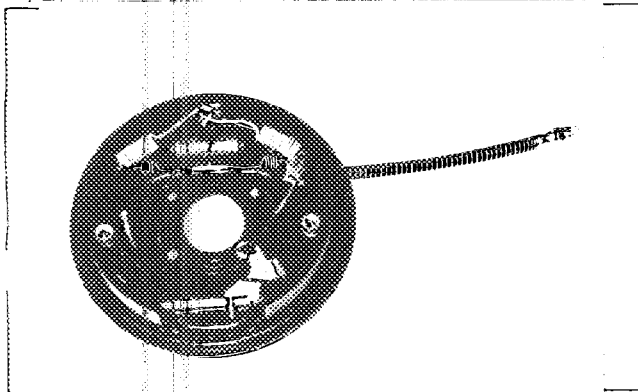
D, front axle complete, removed from car. Without wheels.



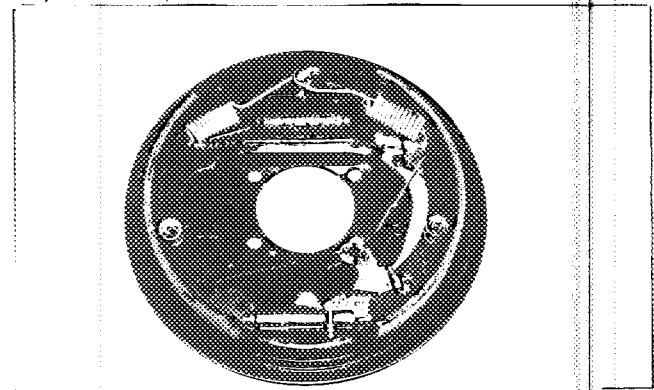
E, Rear axle complete without wheels, removed from car.



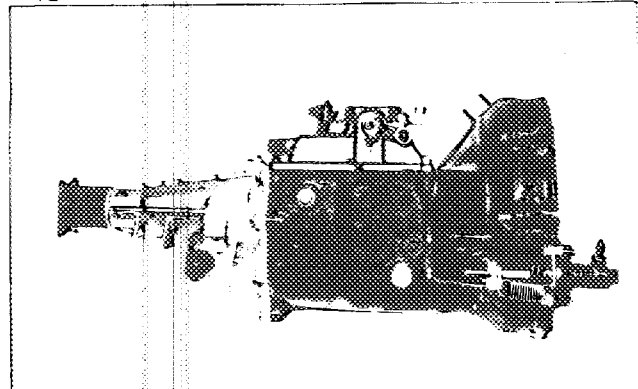
F, front brake, drum removed



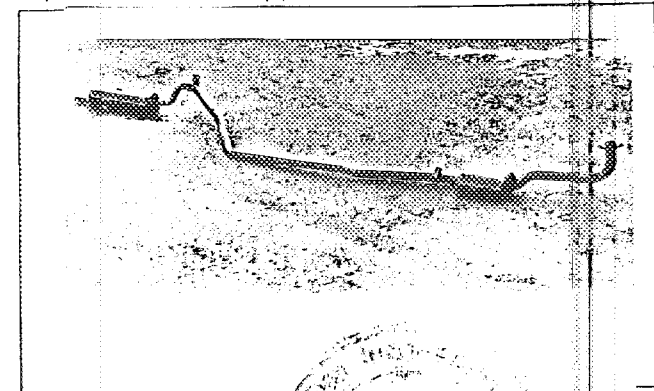
G, rear brake, drum removed



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold.



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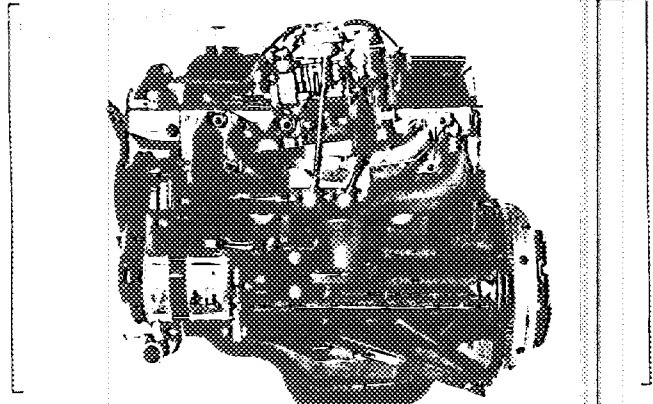
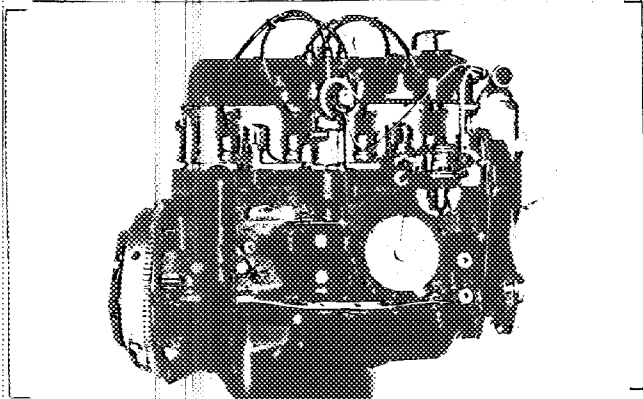
Make Mitsubishi

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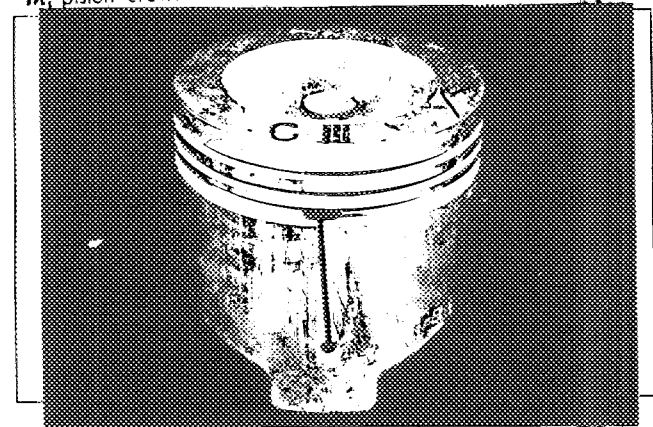
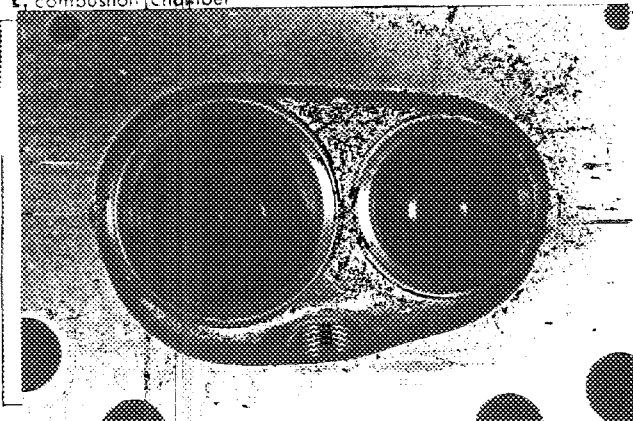
engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.

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



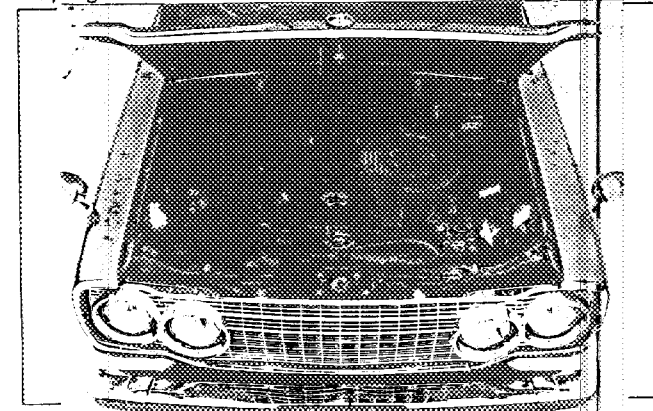
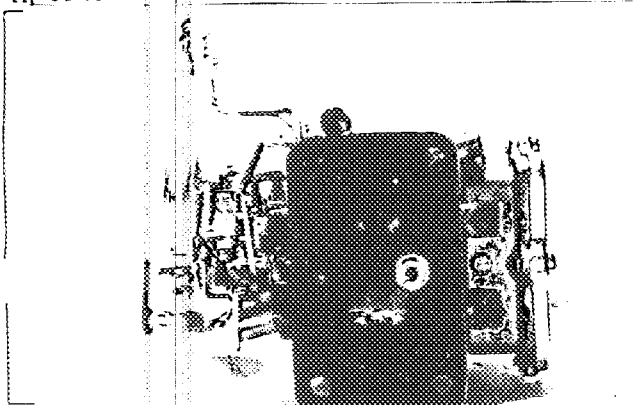
L, combustion chamber

M, piston crown



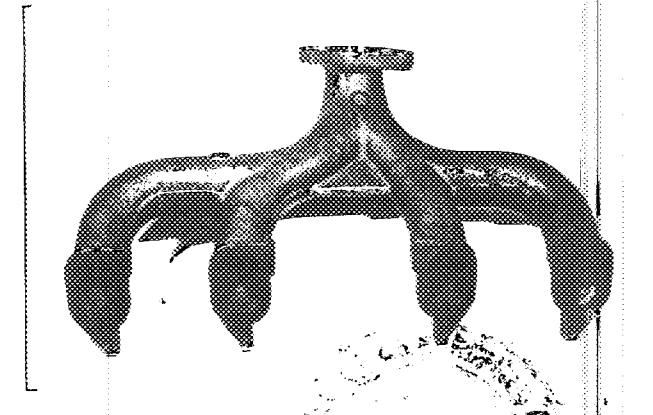
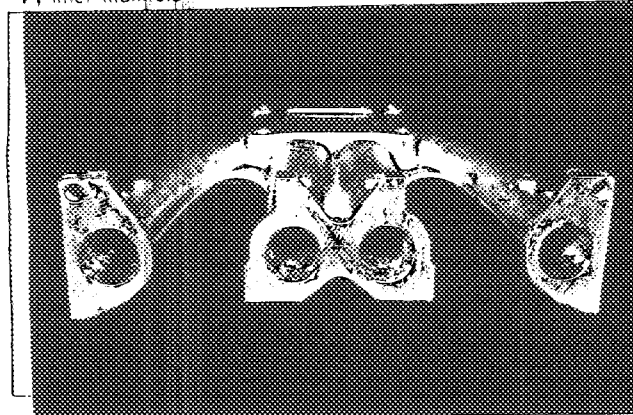
N, Carburettor (view from side of manifold)

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

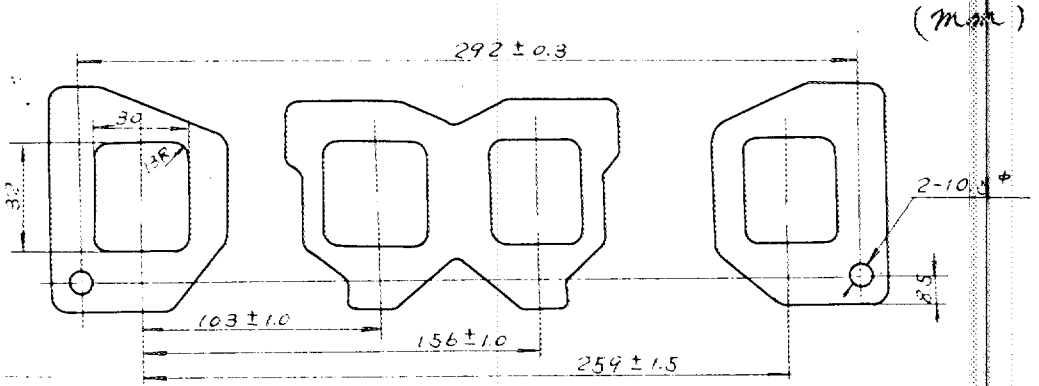


P, inlet manifold

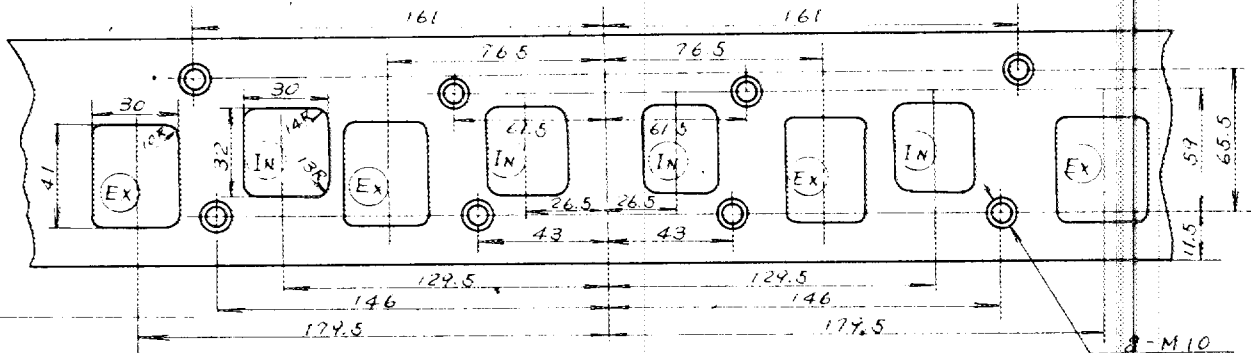
Q, exhaust manifold



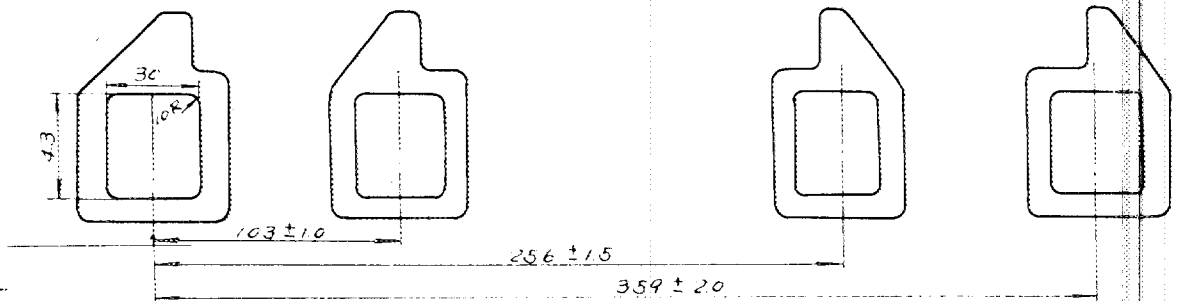
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimension and manufacturing tolerance.



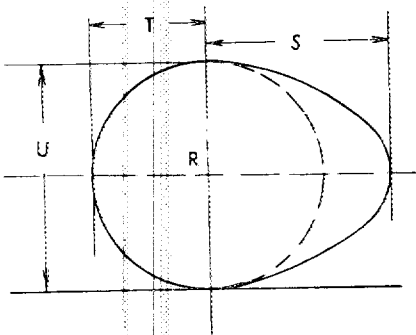
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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.



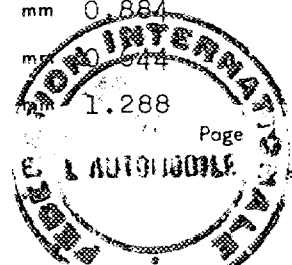
R = centre of camshaft.

Inlet cam

S = 22.4	mm 0.884	inches
T = 16.3	mm 0.644	inches
U = 32.7	mm 1.288	inches

Exhaust cam

S = 22.4	mm 0.884	inches
T = 16.3	mm 0.644	inches
U = 32.7	mm 1.288	inches



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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	42.5	inches
2. <u>Front track</u>	1215	mm	47.8	inches *
3. <u>Rear track</u>	1220	mm	48.1	inches *
4. Overall length of the car		392	cm	inches
5. Overall width of the car		149	cm	inches
6. Overall height of the car		142.5	cm	inches
7. <u>Capacity of fuel tank</u> (reserve included)				43 ltrs
	11.36	Gallon US		Gallon Imp.
8. Seating capacity	5	passengers		
9. <u>Weight, total</u> weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:				
	880	kg	1945	lbs
				cwt

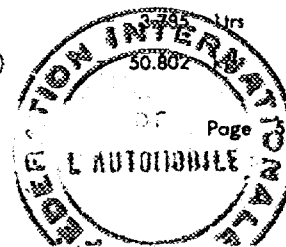
*) Differences in track caused by the use of other wheels with different rim widths must be stated when recognition is requested for the wheels concerned.

Specify ground clearance in relation to the track and give drawing of two easily recognizable points at front and rear 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 Plate
Separate construction
22. Material (s) of chassis ~~Steel Plate~~
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

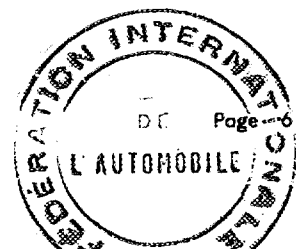
38. Interior heating : ~~yes~~ - no
39. Air-conditioning : ~~yes~~ - no
40. Ventilation : yes - ~~no~~
41. Front seats, type of seats and upholstery Bench, Vinyl Leather
42. Weight of front seat (s), complete with supports and rails, out of the car :
22.8 kg lbs
43. Rear seats, type of seats and upholstery Bench, Vinyl Leather
44. Front bumper, material (s) Steel Plate Weight 3.1 kg
45. Rear bumper, material (s) Steel Plate Weight 3.3 kg

WHEELS

50. Type Pressed Disc Wheel
51. Weight (per wheel, without tyre) 29.2 kg
52. Method of attachment Bolt Attachment Type
53. Rim diameter 330, 356 mm 13, 14 inches
54. Rim width 101.5, 114.5 mm 4, 4½ inches

STEERING

60. Type Recirculating Ball Type
61. Servo-assistance : ~~yes~~ - no
62. Number of turns of steering wheel from lock to lock 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 (Front Only)
- 73. Number of shockabsorbers 2 74. Type Hydraulic Telescopic
- 78. Rear suspension (photogr. E), type Semi-elliptical Leaf Spring
- 79. Type of spring Semi-elliptical Leaf Spring
- 80. Stabiliser (if fitted)
- 81. Number of shockabsorbers 2 82. Type Hydraulic Telescopic

BRAKES (photographs F and G)

- 90. Method of operation 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 $\frac{15}{16}$	in.	mm $\frac{11}{16}$	in.
Drum brakes				
95. Inside diameter	228.2	mm in.	228.2	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.
98. Number of shoes per brake	40		35	
	2		2	
99. Total area per brake	18400	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 85 mm 3.35 in. 134. Stroke 66 mm 2.6 in.
- 135. Capacity per cylinder 374.5 cm³ 22.88 cu. in.
- 136. Total cylinder-capacity 1498 cm³ 91.4 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 50 cm³ 3.05 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 38 mm 1,495 inches
- 147. Crankshaft : moulded / ~~stamped~~ 148. Type of crankshaft : integral / —
- 149. Number of crankshaft main bearings 3
- 150. Material of bearing cap Cast Iron
- 151. System of lubrication : ~~dry sump~~ / oil in sump
- 152. Capacity, lubricant 4 litres pts quarts US
- 153. Oil cooler : ~~yes~~ / no 154. Method of engine cooling Water
- 155. Capacity of cooling system 4.2 litres ^{Without} ~~With~~ Radiator & Pipe pints quarts US
- 156. Cooling fan (if fitted), dia. 30 cm inches
- 157. Number of blades of cooling fan 6

Bearings

- 158. Crankshaft main, type Plain Bearing Dia. 74 mm in.
- 159. Connecting rod big end, Plain Bearing Dia. 60 mm in.

Weights

- 160. Flywheel (clean) 11 kg lbs
- 161. Flywheel with clutch (all turning parts) 14.8 kg lbs
- 162. Crankshaft 11.9 kg 26.3 lbs 163. Connecting rod 1.07 kg lbs
- 164. Piston with rings and pin 0.53 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 and Rocker

INLET (see page 4) *

180. Material(s) of inlet manifold Aluminium Alloy
181. Diameter of valves 38 mm 1.495 inches
182. Max. valve lift 9 ± 0.3 mm 0.354 ± 0.012 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) 0.15 mm inches
187. Valves open at (with tolerance for tappet clearance indicated) 23 deg \pm 2.5 BTDC
188. Valves close at (with tolerance for tappet clearance indicated) 63 deg \pm 2.5 ABDC
189. Air filter, type Dry

EXHAUST (see page 4)

195. Material (s) of exhaust manifold Cast Iron
196. Diameter of valves 30 mm 1.18 inches
197. Max. valve lift 9 ± 0.3 mm $0.354 \pm$ in.
199. Type of spring 0.012 200. 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) 63 deg \pm 2.5 BBDC
203. Valves close at (with tolerance for tappet clearance indicated) 23 deg \pm 2.5 ATDC

CARBURETION (photograph N)

210. Number of carburetors fitted 1 211. Type Down Draft Dual Venturi
212. Make Nihon Kikai Co., Ltd. 213. Model D2832D-1B
214. Number of mixture passages per carburetor 2
215. Flange hold diameter of exit port(s) of carburetor 28,32 mm
216. Minimum diameter of venturi / ~~minimum diam. with piston at maximum height~~
21, 27 \pm 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 and / or=electric	231. No. fitted	1
232. Type of ignition system Battery Ignition System	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	Belt
238. Voltage of generator 12 volts	239. Battery, number	1
240. location Front Wheelhouse		
241. Voltage of battery 12 volts		

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

250. Max. engine output 70 PS (type of horsepower: JIS) at 5000 rpm		
251. Maximum rpm 5500 output at that figure 69 PS		
252. Maximum torque 11.5 kg-m at 3000 rpm		
253. Maximum speed of the car 140 km/hour miles / hour		



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DRIVE TRAIN

CLUTCH

- 260. Type of clutch Dry Single Plate
- 261. No. of plates 1
- 262. Dia. of clutch plates 20.3 cm inches
- 263. Dia. of linings, inside 14 cm in. outside 20 cm in.
- 264. Method of operating clutch Hydraulic

GEAR BOX (photograph H)

- 270. Manual type, make Mitsubishi Heavy Industries Ltd. Kyoto Machinery Works.
- 271. No. of gear-box ratios forward 4
- 272. Synchronized forward ratios All
- 273. Location of gear-shift Steering Column or Floor
- 274. Automatic, make Borg Warner Ltd. type Model 35
- 275. No. of forward ratios 3
- 276. Location of gear-shift Steering Column

277.	Manual		Automatic		Alternative manual/ automatic			
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	3.257	$\frac{30}{19} \times \frac{33}{16}$	2.393		3.474	$\frac{30}{19} \times \frac{33}{15}$		
2	1.645	$\frac{30}{19} \times \frac{25}{24}$	1.45		2.105	$\frac{30}{19} \times \frac{28}{21}$		
3	1.000		1.000		1.397	$\frac{30}{19} \times \frac{23}{26}$		
4	0.838 (OT)	$\frac{30}{19} \times \frac{17}{32}$			1.000			
5								
6								
reverse	4.017	$\frac{30}{19} \times \frac{22}{14} \times \frac{34}{31}$	2.094		3.887	$\frac{30}{19} \times \frac{32}{13}$		

- 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 4.222
- Number of teeth 38/9



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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 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.



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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 parts.

330. Supercharging—state full details hereafter :

JAPAN AUTOMOBILE FEDERATION

Chairman

of Technical Subcommittee



Osamu Hirao