

Make TOYO KOGYO

Model STB

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.

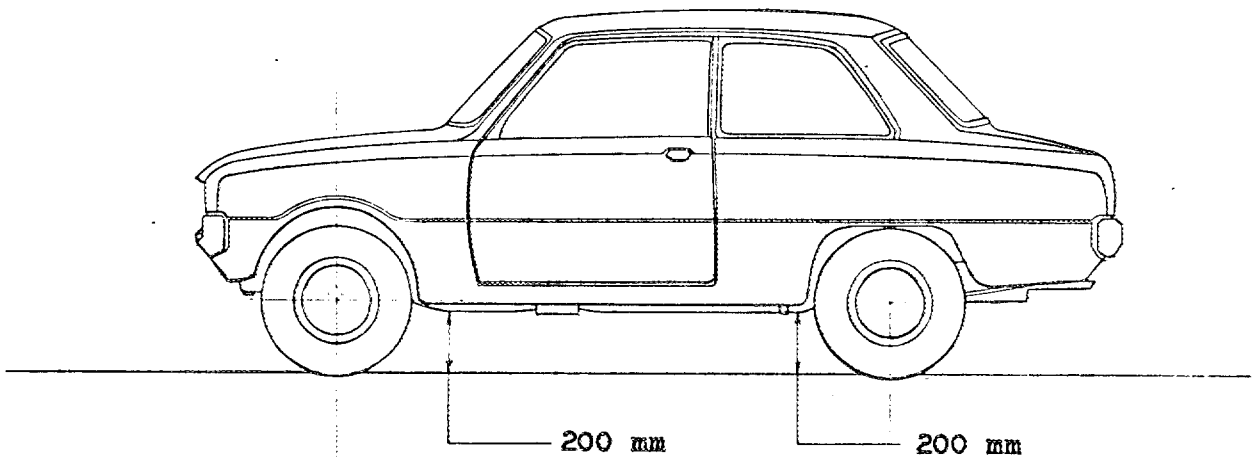
CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2260	mm	89.0	inches
2. <u>Front track</u>	1210	mm	47.6	inches *
3. <u>Rear track</u>	1190	mm	46.9	inches *
4. Overall length of the car		379.5	cm	inches
5. Overall width of the car		148.0	cm	inches
6. Overall height of the car		139.0	cm	inches
7. <u>Capacity of fuel tank</u> (reserve included)				40 ltrs
	10.6	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:				
	710	kg	1565	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

CHASSIS AND COACHWORK (Photographs A, B and C)

- 20. Chassis/body construction : ~~XXXXXX~~ / unitary construction
- 21. Unitary construction, material (s) **Steel**
Separate construction
- 22. Separate Constructions: Material(s) of chassis
- 23. Material (s) of coachwork **Steel**
- 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 : ~~XXX~~ - no
- 39. Air-conditioning : ~~XXX~~ - no
- 40. Ventilation : yes - ~~XXX~~
- 41. Front seats, type of seats and upholstery **Separate, Vinyl leather**
- 42. Weight of front seat (s), complete with supports and rails, out of the car :
13 X 2 kg lbs
- 43. Rear seats, type of seats and upholstery **Bench seat, Vinyl leather**
- 44. Front bumper, material (s) **Steel** Weight **3.0** kg lbs
- 45. Rear bumper, material (s) **Steel** Weight **2.7** kg lbs

WHEELS

- 50. Type **Pressed steel**
- 51. Weight (per wheel, without tyre) **4.5** kg lbs
- 52. Method of attachment **4 Hub-Bolts**
- 53. Rim diameter **304** mm **12** inches
- 54. Rim width **102** mm **4** inches

STEERING

- 60. Type **Ball and Nut type**
- 61. Servo-assistance : ~~XXX~~ - no
- 62. Number of turns of steering wheel from lock to lock **3.6**
- 63. in case of servo-assistance

SUSPENSION

- 70. Front suspension (photogr. D), type Independent, Macpherson
- 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 axle
- 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 1

	FRONT		REAR	
93. Number of cylinders per wheel	2		1	
94. Bore of wheel cylinder (s)	22.22 mm	in.	19.05 mm	in.
Drum brakes				
95. Inside diameter	200 mm	in.	200 mm	in.
96. Length of brake linings	200 mm	in.	200 mm	in.
97. Width of brake linings	32 mm	in.	32 mm	in.
98. Number of shoes per brake	2		2	
99. Total area per brake	12800 mm ²	sq. in.	12800 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	134. Stroke	76 mm
	2.88 in.		2.99 in.
135. Capacity per cylinder	318	cm ³	19.4 cu. in.
136. Total cylinder-capacity	1272	cm ³	77.6 cu. in.
137. Material (s) of cylinder block	Cast Iron		
138. Material (s) of sleeves (if fitted)			
139. Cylinder-head, material (s)	Al - Alloy	Number fitted	1
140. Number of inlet ports	4	141. Number of exhaust ports	4
142. Compression ratio	8.8		
143. Volume of one combustion chamber		40.8	cm ³
			cu. in.
144. Piston, material	Al - Alloy	145. Number of rings	3
146. Distance from gudgeon pin centre line to highest point of piston crown	37.0 mm		inches
147. Crankshaft : moulded / XXXXX		148. Type of crankshaft :	integral / XXXX
149. Number of crankshaft main bearings	5		
150. Material of bearing cap	Cast Iron		
151. System of lubrication : XXXXXX / oil in sump			
152. Capacity, lubricant	3.7	ltrs	pts
			quarts US
153. Oil cooler : XXXX / no		154. Method of engine cooling	Water
155. Capacity of cooling system	4.5	ltrs	pints
			quarts US
156. Cooling fan (if fitted), dia.	33	cm	inches
157. Number of blades of cooling fan	4		

Bearings

158. Crankshaft main, type	Plain	Dia.	63	mm	in.
159. Connecting rod big end,	Plain	Dia.	45	mm	in.

Weights

160. Flywheel (clean)	8.34	kg	lbs
161. Flywheel with clutch (all turning parts)	12.44	kg	lbs
162. Crankshaft	14.21	kg	lbs
163. Connecting rod	0.52	kg	lbs
164. Piston with rings and pin	0.316	kg	lbs

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FOUR STROKE ENGINES

- 170. Number of camshafts 1 171. Location Cylinder Head
- 172. Type of camshaft drive Chain
- 173. Type of valve operation ~~Overhead-Camshaft~~ & Rocker-Arm

INLET (see page 8) *

- 180. Material(s) of inlet manifold Al - Alloy
- 181. Diameter of valves 36 mm 1.42 inches
- 182. Max. valve lift 9 mm 0.354 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) 0.3 mm inches
- 187. Valves open at (with tolerance for tappet clearance indicated) $13^{\circ} \pm 7^{\circ}$ B.T.D.C.
- 188. Valves close at (with tolerance for tappet clearance indicated) $50^{\circ} \pm 7^{\circ}$ A.B.D.C.
- 189. Air filter, type Dry

EXHAUST (see page 8)

- 195. Material (s) of exhaust manifold Cast Iron
- 196. Diameter of valves 31 mm 1.22 inches
- 197. Max. valve lift 9 mm 0.354 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) 0.3 mm inches
- 202. Valves open at (with tolerance for tappet clearance indicated) $57^{\circ} \pm 7^{\circ}$ B.B.D.C.
- 203. Valves close at (with tolerance for tappet clearance indicated) $6^{\circ} \pm 7^{\circ}$ A.T.D.C.

CARBURETION (photograph N)

- 210. Number of carburetors fitted 1 211. Type Down Draught
- 212. Make HITACHI 213. Model DCG 306
- 214. Number of mixture passages per carburetor 2
- 215. Flange hole diameter of exit port(s) of carburetor 26 & 30 mm in.
- 216. Minimum dimensions of mixture passage (s) ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~
20 & 26 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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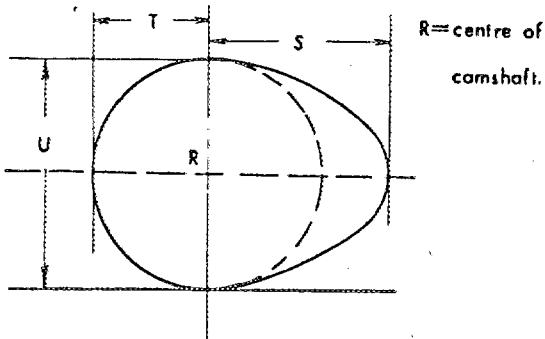
ENGINE ACCESSORIES

- | | | |
|---|--------------------------|-------|
| 230. Fuel pump : mechanical and / or electric | 231. No. fitted | 1 |
| 232. Type of ignition system Make and Brake | 233. No. of distributors | 1 |
| 234. No. of ignition coils | 1 | |
| 236. Generator, type: DC/AC alternator - number fitted | 1 | |
| 238. Voltage of generator | 12 | volts |
| 240. Location | Engine Room | |
| 241. Voltage of battery | 12 | volts |

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

- | | | | | | |
|-------------------------------|------------------|-----------------------------------|--------------|-------------|--------------|
| 250. Max. engine output | 75 PS | (type of horsepower: JIS) | at | 6000 | rpm |
| 251. Maximum rpm | 6000 | output at that figure | 75 PS | | |
| 252. Maximum torque | 10.5 Kg-m | at | 3000 | rpm | |
| 253. Maximum speed of the car | 150 | km / hour | | | miles / hour |

255.



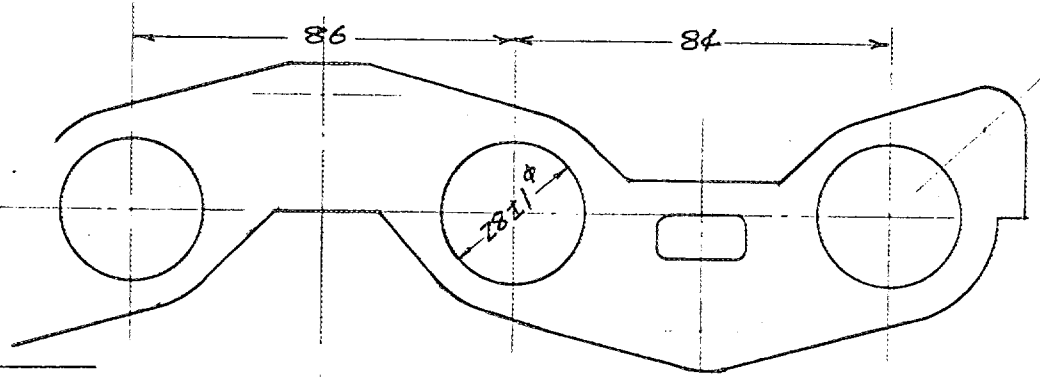
Inlet cam

S =	25.1	mm	0.95	inches
T =	19	mm	0.75	inches
U =	38	mm	1.50	inches

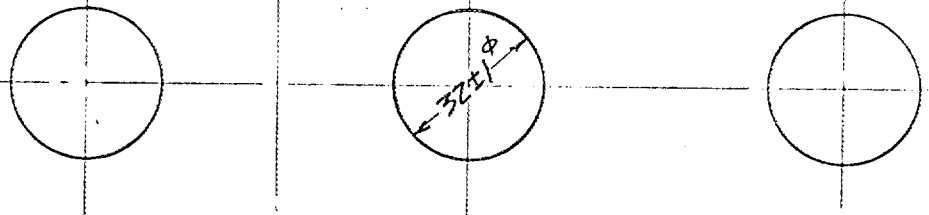
Exhaust cam

S =	25.1	mm	0.95	inches
T =	19	mm	0.75	inches
U =	38	mm	1.50	inches

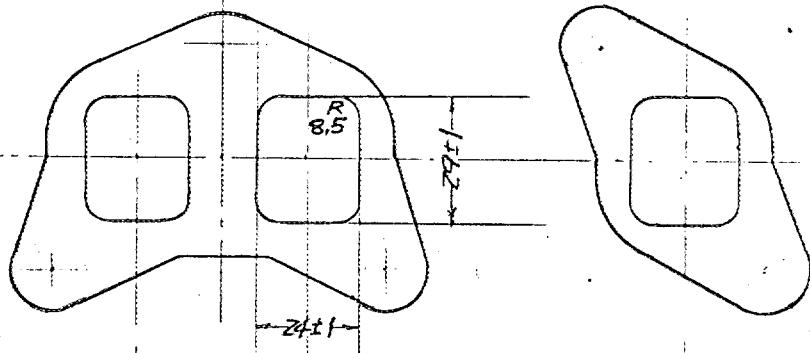
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



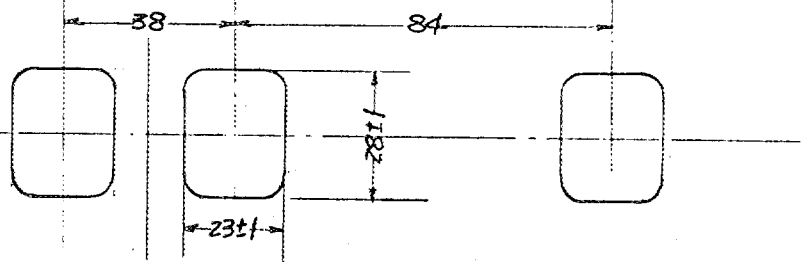
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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.



Unit : mm

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DRIVE TRAIN

CLUTCH

260. Type of clutch **Dry Plate** 261. No. of plates **1**

262. Dia. of clutch plates **18.6** cm inches

263. Dia. of linings, inside **12.5** cm in. outside **18.0** cm in.

264. Method of operating clutch **Hydraulic**

GEAR BOX (photograph H)

270. Manual type, make **TOYO KOGYO** 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 or Column**

274. Automatic, make type

275. No. of forward ratios 276. Location of gear-shift

277.	Manual		Automatic		Alternative manual/ automatic		Ratio	
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	3.655	30 / 17 29 / 14			3.337	29 / 18 29 / 14		
2	2.185	30 / 17 26 / 21			1.995	29 / 18 26 / 21		
3	1.425	30 / 17 21 / 26			1.301	29 / 18 21 / 26		
4	1.000				1.000			
5								
6								
reverse	3.655	30 / 17 29 / 14			3.337	29 / 18 29 / 14		

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 **4.111** , **4.625**
 Number of teeth **37 / 9** , **37 / 8**

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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.

4 DOOR TYPE

9. Weight, total weight of the car with normal equipment.

730 Kg 1609 lbs

30. Material(s) rear-door window Glass

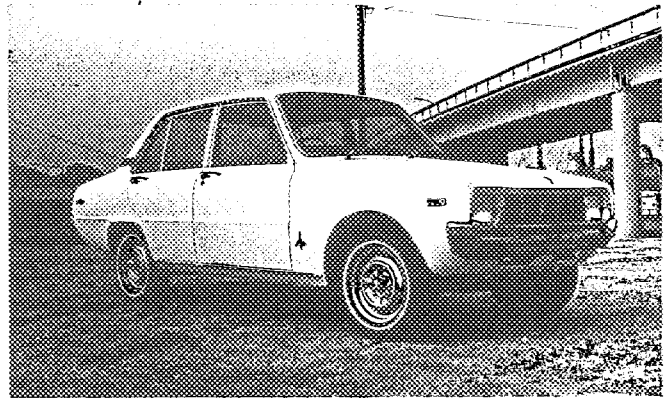
WHEEL

53. Rim diameter 330 mm 13 in

54. Rim width 102 mm 4 in

51. Weight 5.5 Kg

Photograph A



DISC BRAKE FRONT

100. Outside diameter 244 mm

101. thickness of disc 10 mm

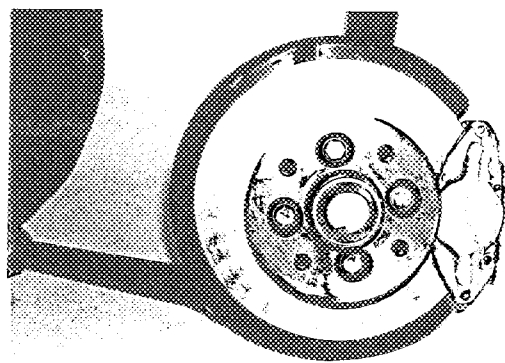
102. Length of brake linings 63 mm

103. Width of brake linings 47 mm

104. Number of pads per brake 2

105. Total area per brake 5920 mm

Photograph F



93. No. of wheel cylinder(s) per wheel 2

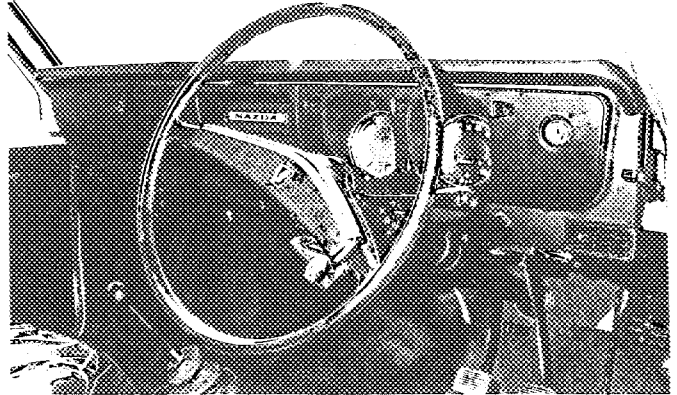
94. Bore of wheel cylinder 48.0 mm

Photograph

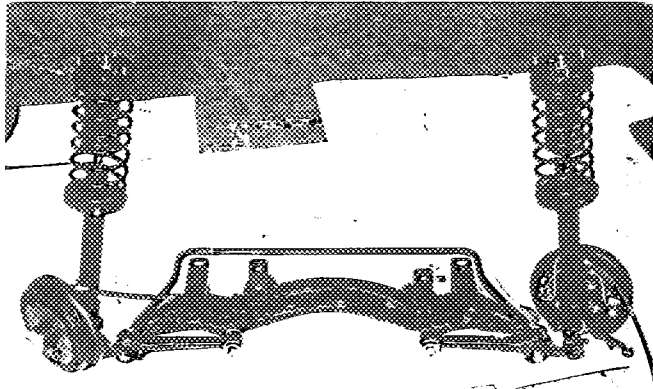
B, 3/4 view of car from rear



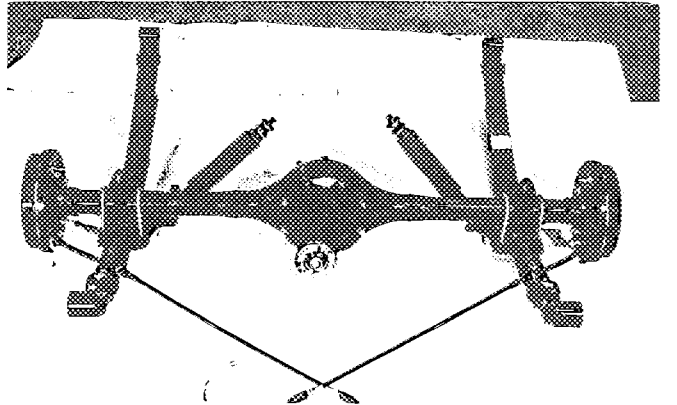
C, interior view of car through driver's door (open or removed) with dashboard



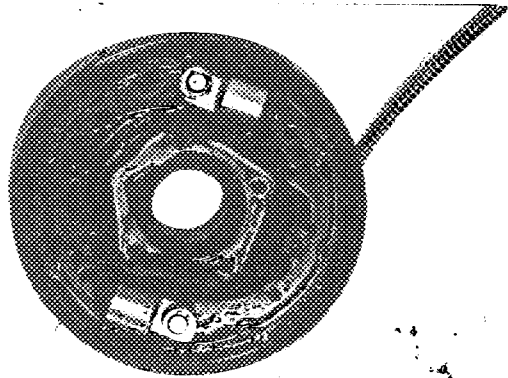
D, front axle complete, removed from car. Without wheels.



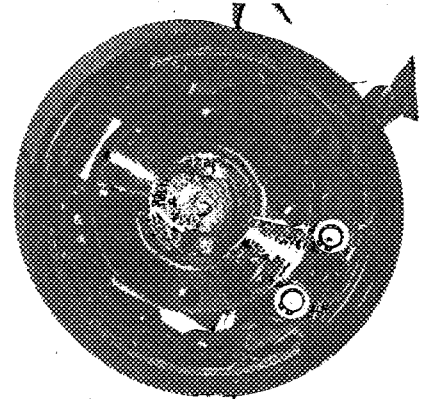
E, Rear axle complete without wheels, removed from car.



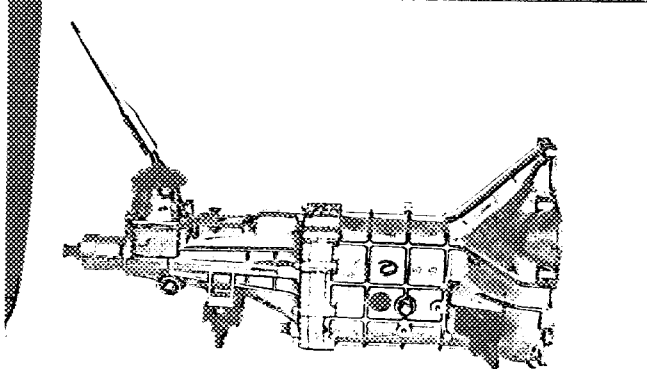
F, front brake, drum removed or disc with calipers



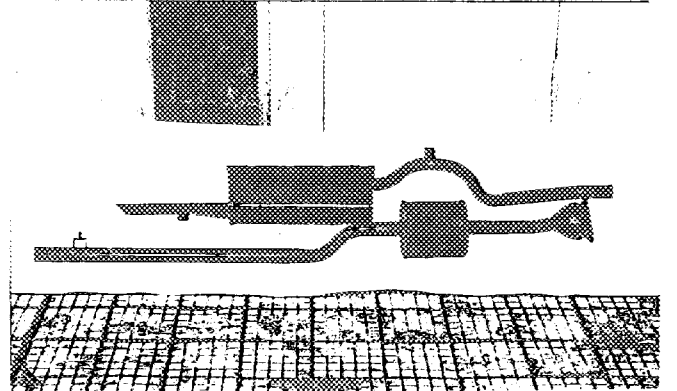
G, rear brake, drum removed or disc with calipers



H, gear-box, view from side

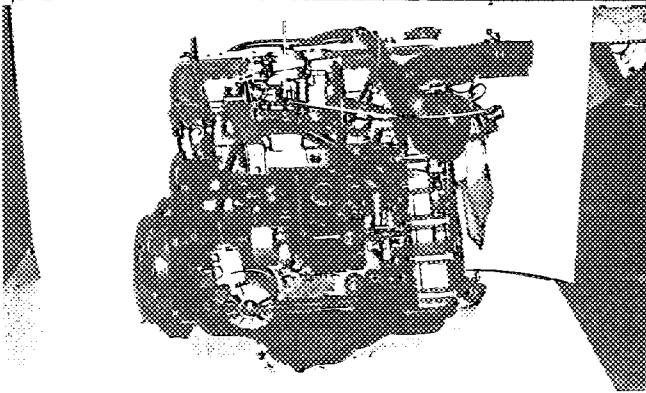


I, silencer + exhaust pipes after exhaust manifold.

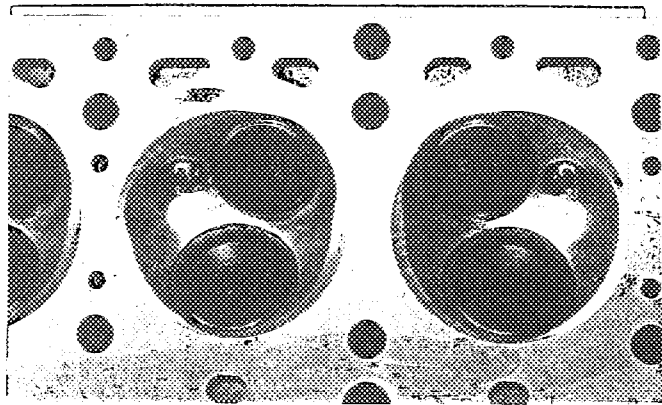


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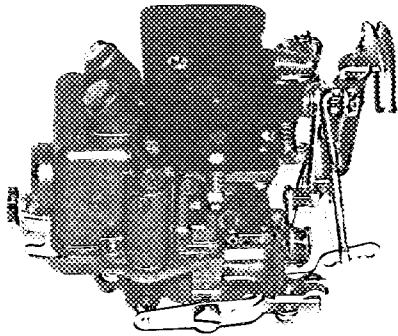
engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.



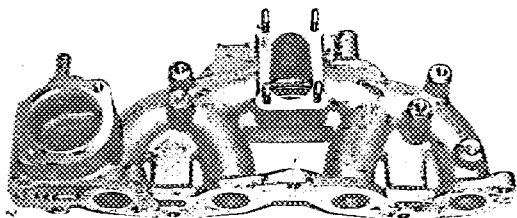
L, combustion chamber



N, Carburettor (view from side of manifold)



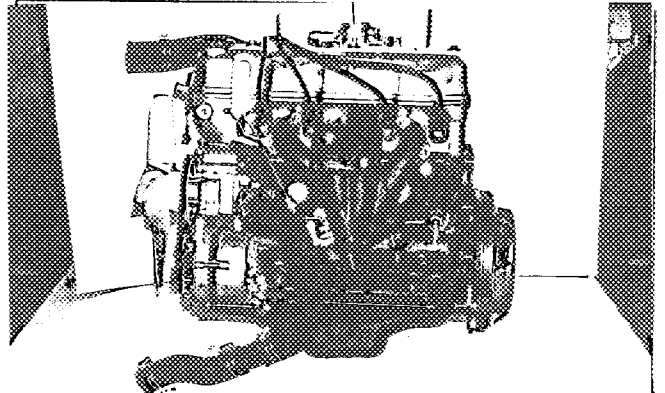
P, inlet manifold



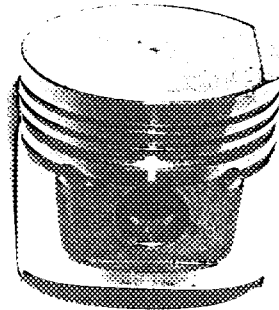
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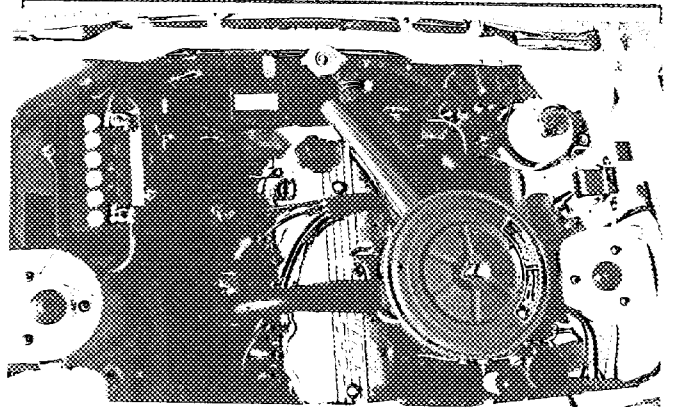
Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



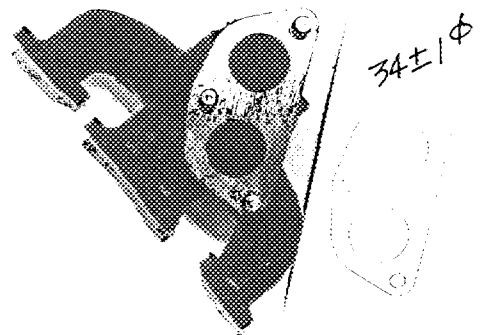
M, piston crown



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

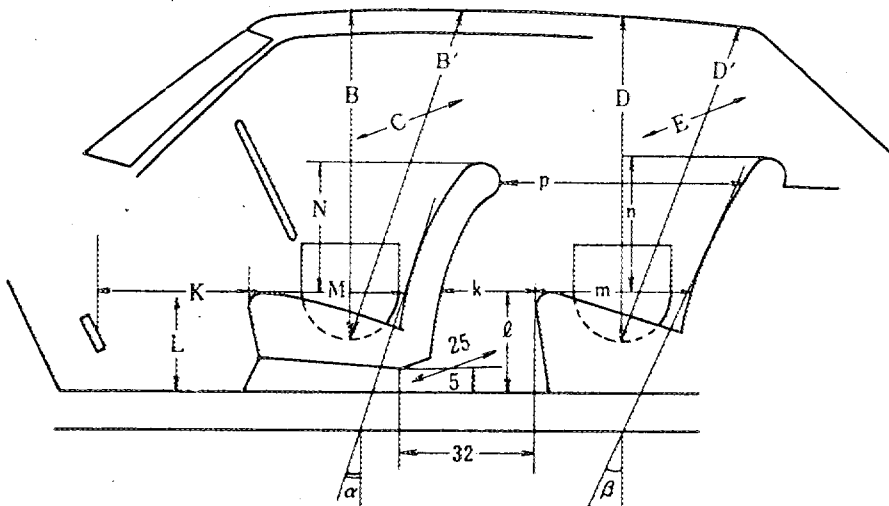


Q, exhaust manifold



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
92	97	15°	123	91	90	21°	123

Minimum Dimensions (cm)										
L	ℓ	M	m	N	n	k+m	p	k	k+l+m	K+L+N
29	29.5	46.5	45	39	41.5	67	62	22	96.5	120
0.9L =	26	0.85M =	39.5	0.8N =	31	0.8(k+m) =	53.6	(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



Yasuharu Nanba