



JAPAN AUTOMOBILE FEDERATION

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

5376

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer **TOYO KOGYO CO., LTD.** Cylinder-capacity **1272** cm³ **77.6** cm³
 Serial No. of chassis **STB-10001** Model **MT2K (MAZDA 1300 COUPE)**
 engine **TC 1001** Manufacturer **TOYO KOGYO**
 Recognition is valid from Manufacturer **TOYO KOGYO**
 List
 The manufacturing of the model described in this recognition form was started on **JAN.** 1970 and the minimum production of **5000** identical cars, in accordance with the specifications of this form was reached on **MAR.** 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

TOYO KOGYO

Model

MT2K

F.I.A. Rec. No.

(IMPORTANT) - the unprinted items must be stated in two measuring systems, one of which must be the metric system. See conversion table hereafter.

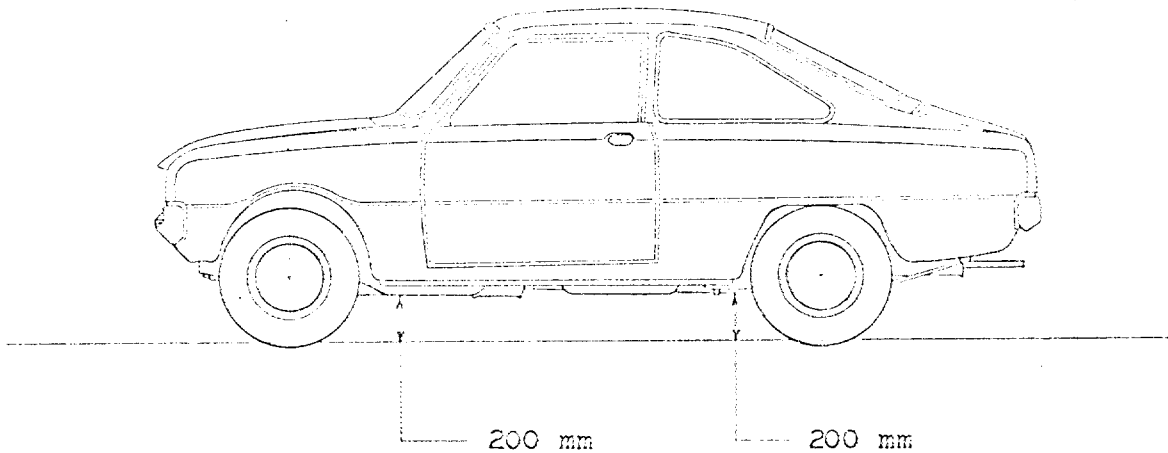
CAPACITIES AND DIMENSIONS

1. Wheelbase	2260	mm	89.0	inches
2. Front track	1210	mm	47.6	inches *
3. Rear track	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		134.5	cm	inches
7. Capacity of fuel tank (reserve included)			40	liters
	10.6	Gallon US		Gallon Imp.
8. Seating capacity	5			
9. Weight, total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools				
	720	kg	1587	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 liters
1 foot / pied	30.4794 cm	1 pint (pt)	0.568 liters
1 square inch / pouce carré	6.452 cm ²	1 gallon imp	4.546 liters
1 cubic inch / pouce cube	16.387 cm ³	1 gallon US	3.785 liters
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 : ~~XXXXX~~ / 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 : ~~XXXX~~ - 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
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- 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) **5.5** kg lbs
- 52. Method of attachment **4 Hub-Bolts**
- 53. Rim diameter **330** mm **13** 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)	48.0 mm	in.	15.8 mm	in.
Drum brakes				
95. Inside diameter	mm	in.	200 mm	in.
96. Length of brake linings	mm	in.	200 mm	in.
97. Width of brake linings	mm	in.	32 mm	in.
98. Number of shoes per brake			2	
99. Total area per brake	mm ²	sq. in.	12800 mm ²	sq. in.
Disc brakes				
100. Outside diameter	244 mm	in.	mm	in.
101. Thickness of disc	10 mm	in.	mm	in.
102. Length of brake linings	63 mm	in.	mm	in.
103. Width of brake linings	47 mm	in.	mm	in.
104. Number of pads per brake	2			
105. Total area per brake	5920 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 / XXXXXX		148. Type of crankshaft :	integral / XXXXX
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	litrs	pts
			quarts US
153. Oil cooler : XXX / no		154. Method of engine cooling	Water
155. Capacity of cooling system	4.5	litrs	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

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. Numbr 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° ± 7° B.T.D.C.**
 188. Valves close at (with tolerance for tappet clearance indicated) **50° ± 7° 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° ± 7° B.B.D.C.**
 203. Valves close at (with tolerance for tappet clearance indicated) **6° ± 7° 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 pasage (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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Model MT2K

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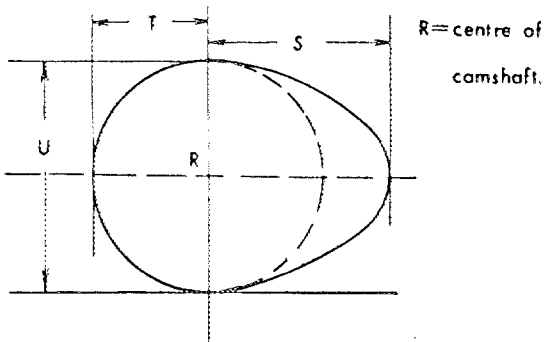
ENGINE ACCESSORIES

- 230. Fuel pump : mechanical ~~and electric~~
- 231. No. fitted 1
- 232. Type of ignition system **Make and Brake**
- 233. No. of distributors 1
- 234. No. of ignition coils 1
- 235. No. of spark plugs per cylinder 1
- 236. Generator, type: ~~dyno~~ 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 **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 **155** km/hour miles / hour

255.



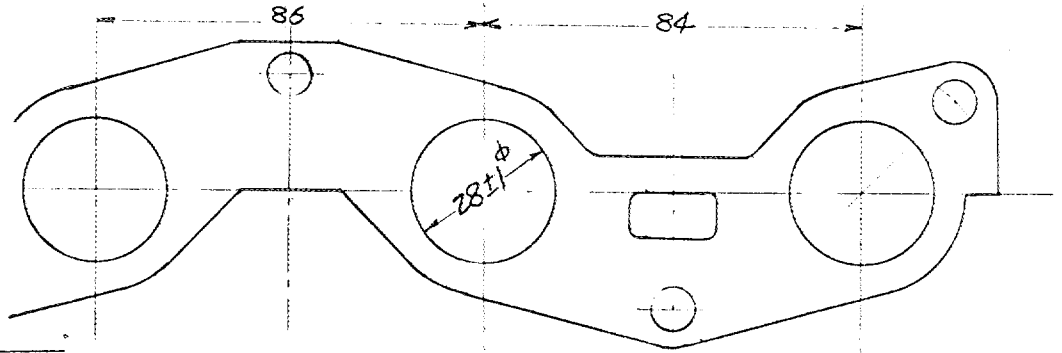
Inlet cam

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

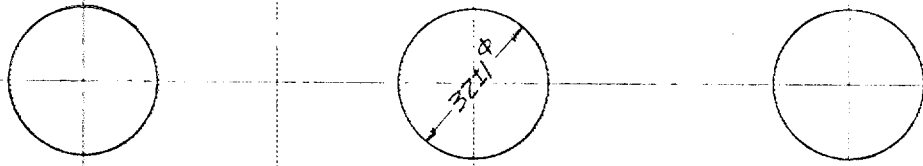
Exhaust cam

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

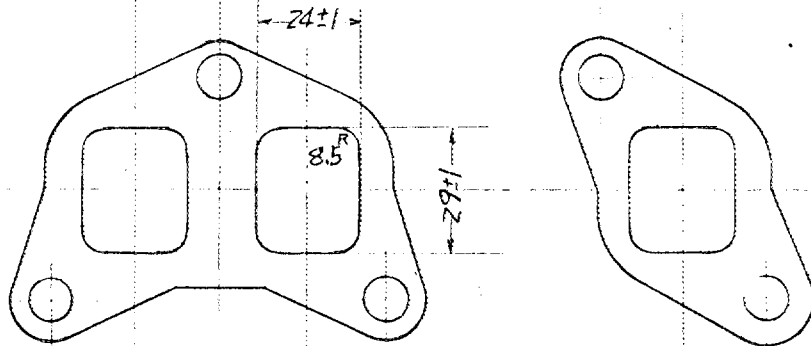
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



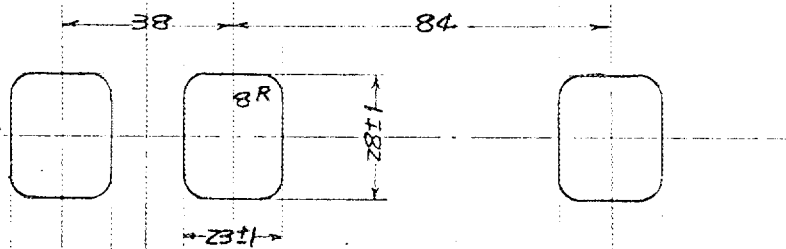
Drawing of entrance to inlet part of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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

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**
- 274. Automatic, make _____ type
- 275. No. of forward ratios _____ 276. Location of gear-shift _____

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

Make TOYO KOGYO

Model MT2K

F. I. A. Rec. No.

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) : 4), 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, 235, 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, 79, 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.

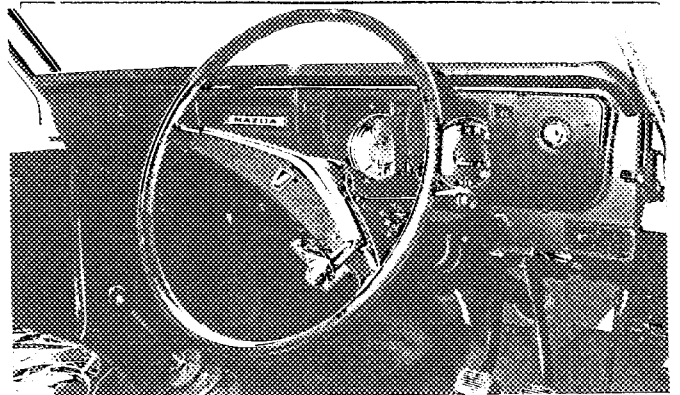
Optional equipment affecting preceding information. This to be stated together with reference number.

Photograph

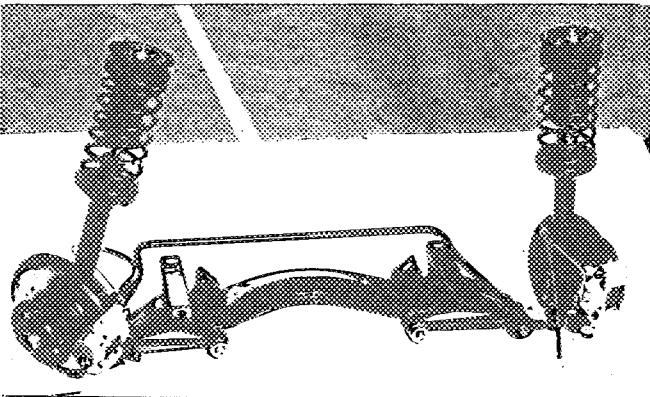
B, 3/4 view of car from rear



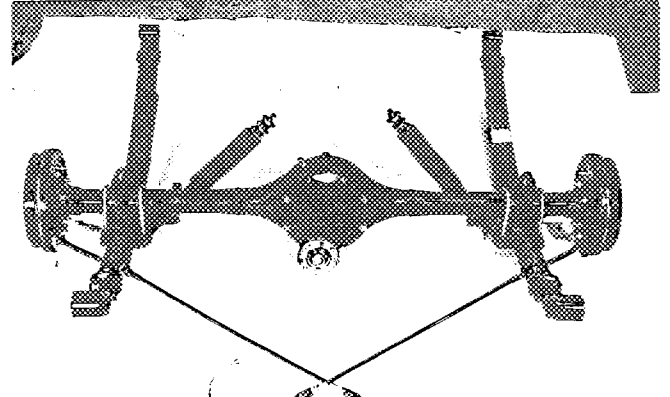
C, interior view of car through driver's door (open or removed) with dashboard



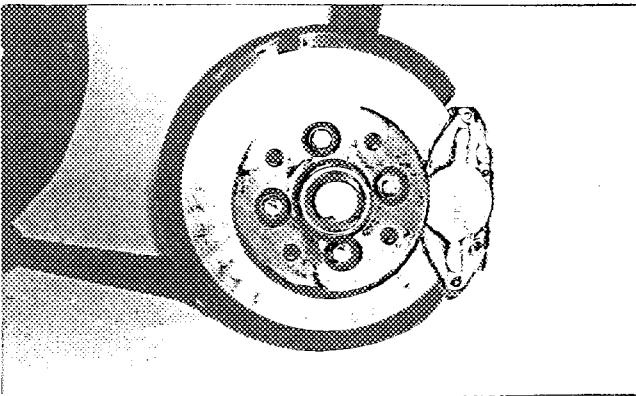
D, front axle complete, removed from car. Without wheels.



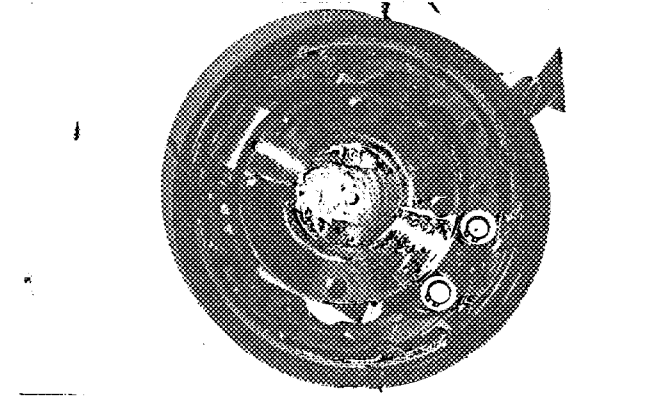
E, Rear axle complete without wheels, removed from car.



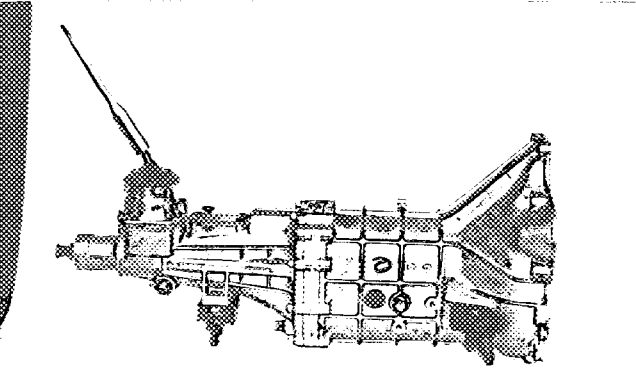
F, front brake, drum removed or disc with caliper(s)



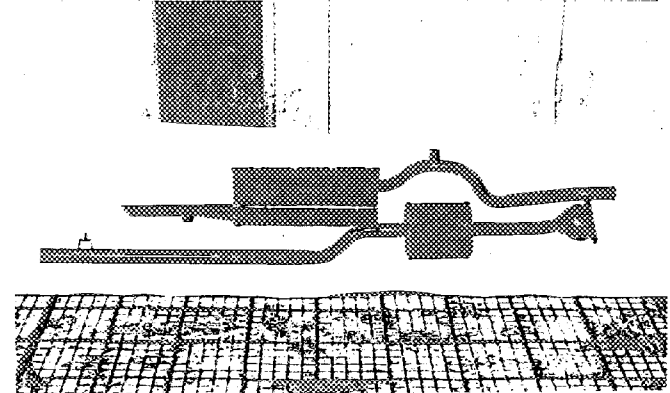
G, rear brake, drum removed or disc with caliper(s)



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold.



Make TOYO KOGYO

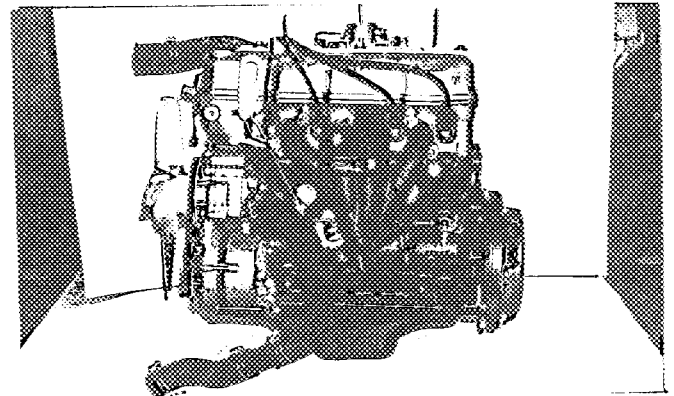
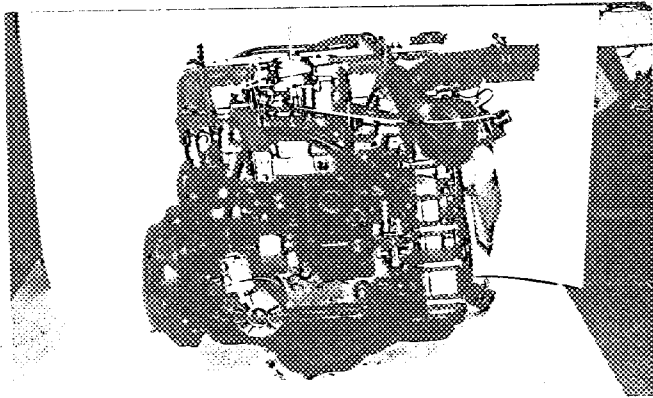
Model MT2K

F.I.A. Rec. No

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

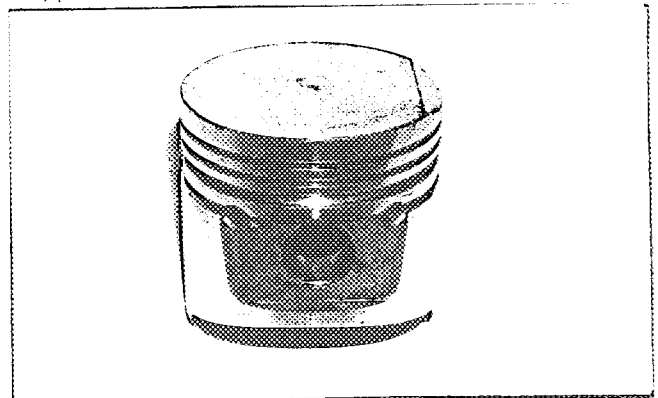
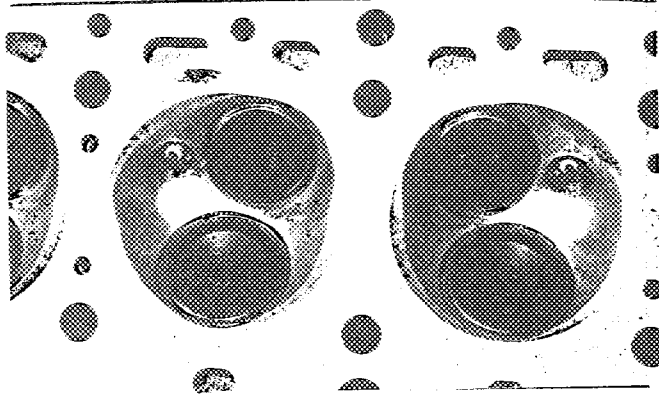
Photograph

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



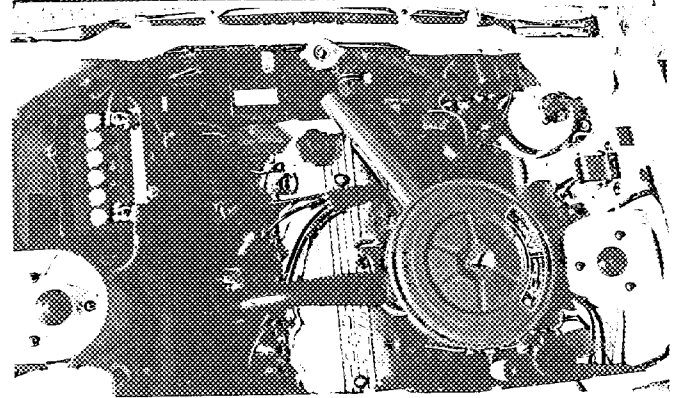
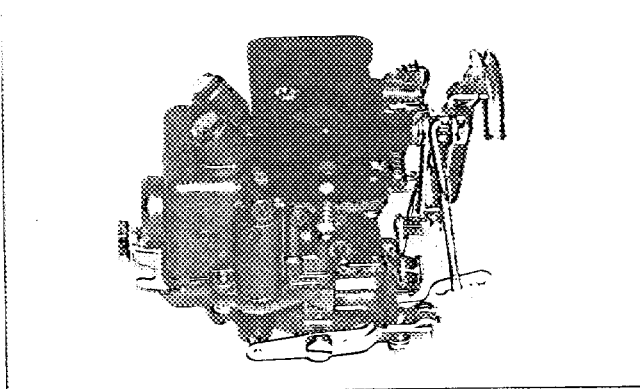
L, combustion chamber

M, piston crown



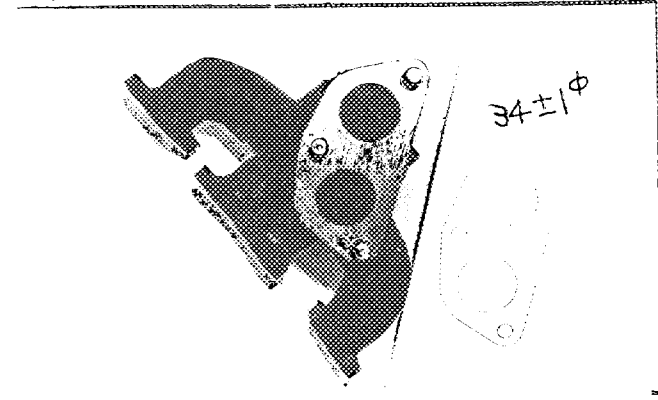
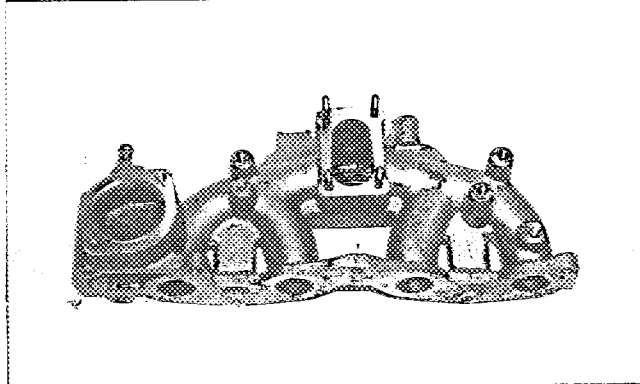
N, Carburettor (view from side of manifold)

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



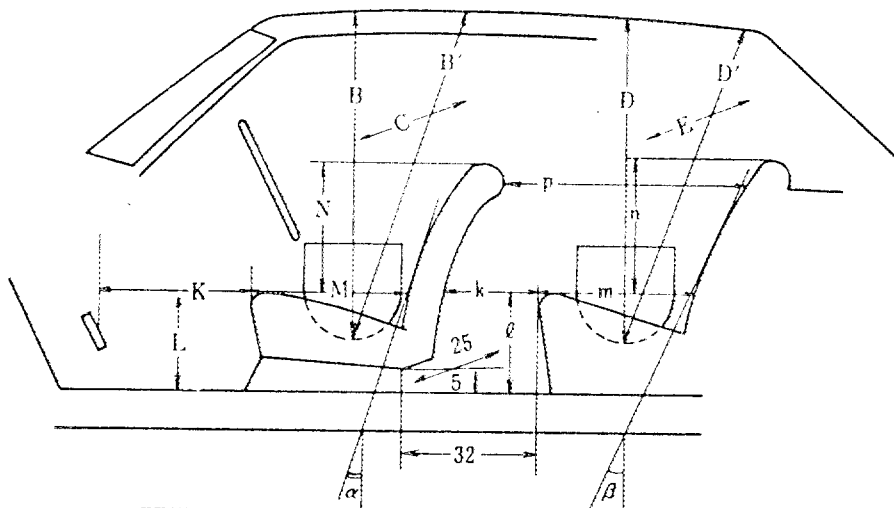
P, inlet manifold

Q, exhaust manifold



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

For four seaters :



Minimum Dimensions (cm)							
B	B'	α	C	D	D'	β	E
93.5	96	15°	123	89	87.5	15°	123

Minimum Dimensions (cm)										
L	ℓ	M	m	N	n	k+m	p	k	k + ℓ + m	K + L + M
26	29.5	49	44	42	43	65.5	60	21.5	95.0	120.5
0.9L = 23.4		0.85M = 41.65		0.8N = 33.6		0.8(k+m) = 52.4		(15)	(95)	(120)

Make TOYO KOGYO

Model MT2K


F. I. A. Rec. No.

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