



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. **534-8**
Group **1**

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	1169	cm ³	71.34	cu. in.
Serial No. of chassis	STA MTK -25801	Model	MTK (MAZDA 1200 COUPE)			
Serial No. of engine	TB-10001	Manufacturer	TOYO KOGYO			
Recognition is valid from	1/4/70	Manufacturer	TOYO KOGYO			
		List	70/14			

The manufacturing of the model described in this recognition form was started on **Oct. 1968** and the minimum production of **5000** identical cars, in accordance with the specifications of this form was reached on **Nov. 1968**

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

Stamp and signature of the
National Sporting Authority

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 F. I. A.

Make TOYO KOGYO

Model MTK

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.

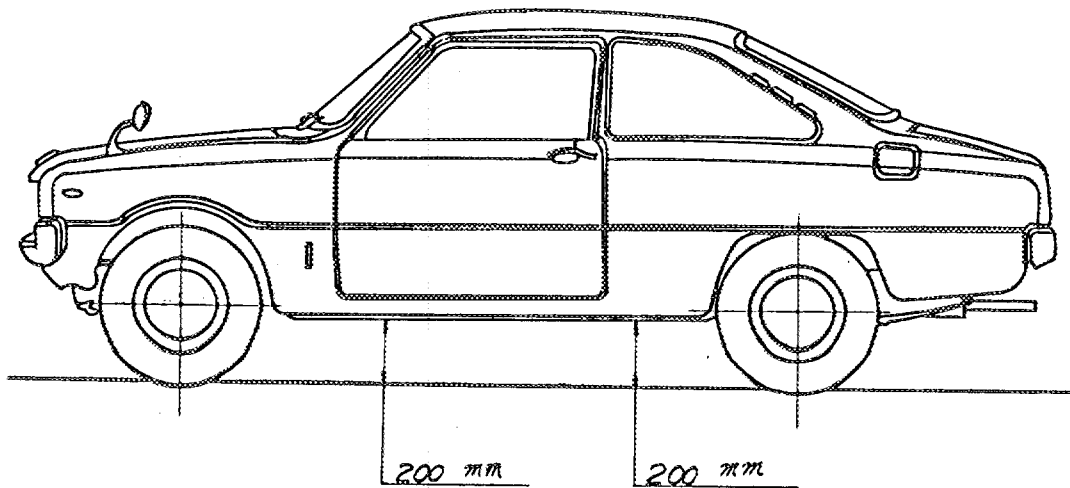
CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2260	mm	89.0	inches
2. <u>Front track</u>	1200	mm	47.2	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		134.5	cm	inches
7. <u>Capacity of fuel tank</u> (reserve included)			40	liters
	10.57	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:				
	690	kg	1521	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) **"**
- 25. Material (s) of bonnet **"**
- 26. Material (s) of boot lid **"**
- 27. Material (s) of rear-window **Glass**
- 28. Material (s) of windscreen **"**
- 29. Material (s) of front-door windows **"**
- 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 Seat & Vinyl Leather**
- 42. Weight of front seat (s), complete with supports and rails, out of the car :

14 x 2	kg	lbs
--------	----	-----
- 43. Rear seats, type of seats and upholstery **Bench Seat & Vinyl Leather**
- 44. Front bumper, material (s) **Steel** Weight **3.6** 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
~~114~~ ~~4 1/2~~

STEERING

- 60. Type **Ball and Nuts Type**
- 61. Servo-assistance : ~~yes~~ - no
- 62. Number of turns of steering wheel from lock to lock **3.5**
- 63. In case of servo-assistance

SUSPENSION

70. Front suspension (photogr. D), type Independent, ^{MacPharson} ~~Strut~~ Type
 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 Type
 79. Type of spring ~~Semi-Elliptic Leaf Spring~~
 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 Non
 92. Number of hydraulic master cylinders ~~2~~ 2 (~~Tandem~~)

	FRONT			REAR		
93. Number of cylinders per wheel	2			1		
94. Bore of wheel cylinder (s)	mm	1.89 in.		mm	5/8 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	70 mm	2.8 in.		134. Stroke	76 mm	3.0 in.	
135. Capacity per cylinder		293 cm ³			17.9 cu. in.		
136. Total cylinder-capacity		1169 cm ³			71.3 cu. in.		
137. Material (s) of cylinder block	Al-Alloy						
138. Material (s) of sleeves (if fitted)	Cast Iron						
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	8.6						
143. Volume of one combustion chamber		38.3 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	39 mm						
						inches	
147. Crankshaft : moulded / xxxxxx				148. Type of crankshaft : integral / xxxxxx			
149. Number of crankshaft main bearings	5						
150. Material of bearing cap	Al-Alloy						
151. System of lubrication : xxxxxx / oil in sump							
152. Capacity, lubricant	3 ltrs						quarts US
153. Oil cooler : yes / no				154. Method of engine cooling	Water		
155. Capacity of cooling system	3.5 ltrs						quarts US
156. Cooling fan (if fitted), dia.	320 cm						
157. Number of blades of cooling fan	4						

Bearings

158. Crankshaft main, type	Plain			Dia.	56 mm		in.
159. Connecting rod big end,	Plain			Dia.	45 mm		in.

Weights

160. Flywheel (clean)	8.44 kg			lbs			
161. Flywheel with clutch (all turning parts)				12.44 kg			lbs
162. Crankshaft	12.7 kg			lbs			
163. Connecting rod				0.52 kg			lbs
164. Piston with rings and pin	0.37 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

INLET (see page 8) *

180. Material(s) of inlet manifold	Al-Cast		
181. Diameter of valves		34 mm	1.3 inches
182. Max. valve lift	8.2 mm	0.32 in.	
184. Type of spring	Coil		
186. Tappet clearance for checking timing (cold)		0.3 mm	inches
187. Valves open at (with tolerance for tappet clearance indicated)		14° BTDC ±7°	
188. Valves close at (with tolerance for tappet clearance indicated)		53° ABDC ±7°	
189. Air filter, type	Dry		

EXHAUST (see page 8)

195. Material (s) of exhaust manifold	Steel		
196. Diameter of valves		29 mm	1.14 inches
197. Max. valve lift	8.2 mm	0.32 in.	
199. Type of spring	Coil		
201. Tappet clearance for checking timing (cold)		0.3 mm	inches
202. Valves open at (with tolerance for tappet clearance indicated)		57° BBDC ±7°	
203. Valves close at (with tolerance for tappet clearance indicated)		10° ATDC ±7°	

CARBURETION (photograph N)

210. Number of carburetors fitted	1	211. Type	Down Draft
212. Make	HITACHI	213. Model	DTC
214. Number of mixture passages per carburetor	2		
215. Flange hole diameter of exit port(s) of carburetor		26φ, 30φ	mm
216. Minimum dimensions of mixture passage(s)		20 & 26	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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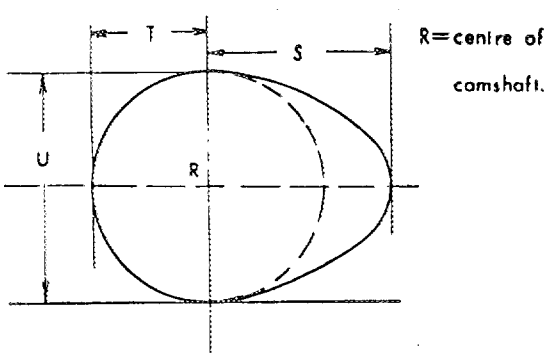
ENGINE ACCESSORIES

- 230. Fuel pump : mechanical ~~mechanical~~
- 231. No. fitted 1
- 232. Type of ignition system **Make & Break Ignition** ~~Ignition~~
- 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 ~~14~~ 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)

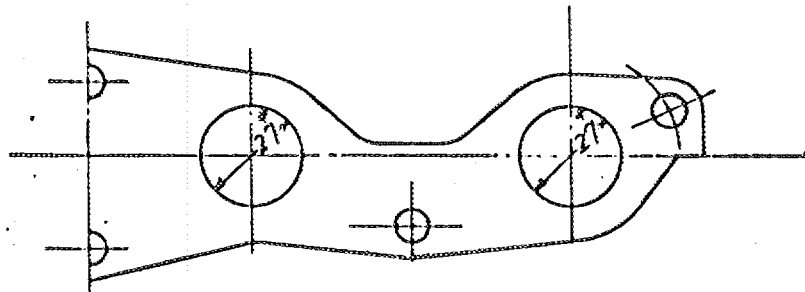
- 250. Max. engine output 68 PS (type of horsepower: JIS) at 6,000 rpm
- 251. Maximum rpm 6,000 rpm output at that figure 68 PS
- 252. Maximum torque 9.6 kg-m at 3,000 rpm
- 253. Maximum speed of the car 145 km/hour miles / hour

255.

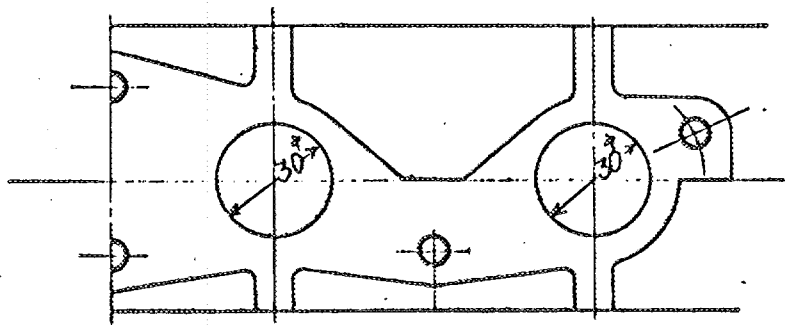


	<u>Inlet cam</u>			
S =	21.6	mm	0.85	inches
T =	15.0	mm	0.59	inches
U =	30.0	mm	1.2	inches
	<u>Exhaust cam</u>			
S =	21.6	mm	0.85	inches
T =	15.0	mm	0.59	inches
U =	30.0	mm	1.2	inches

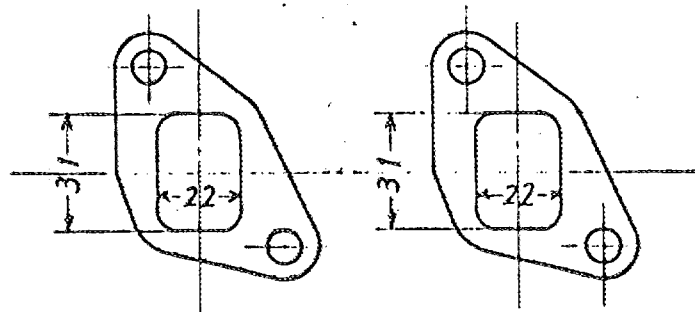
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



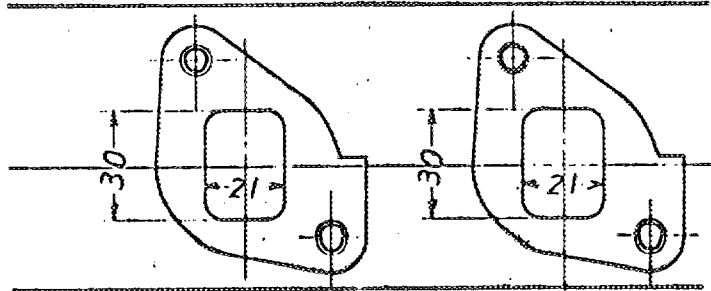
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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

Tolerance: ± 1.5

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DRIVE TRAIN

CLUTCH

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

262. Dia. of clutch plates 18.8 cm inches

263. Dia. of linings, inside 12.7 cm in. outside 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	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

Make

TOYO KOGYO

Model

WTK

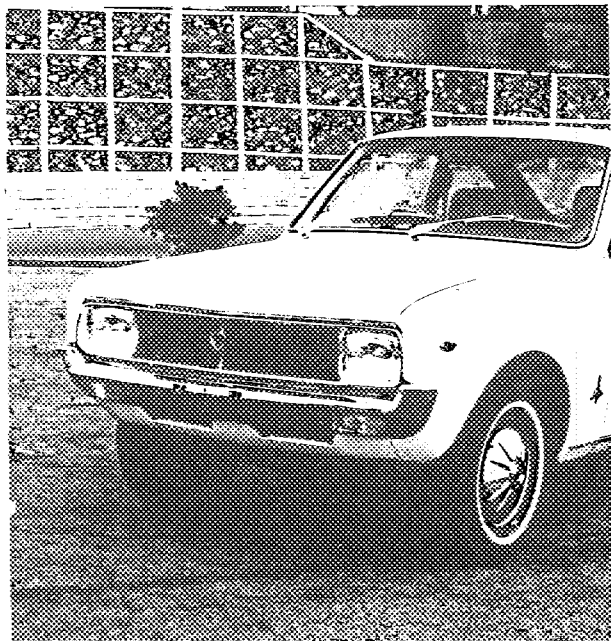
F.I.A. Rec. No.

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) : 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.

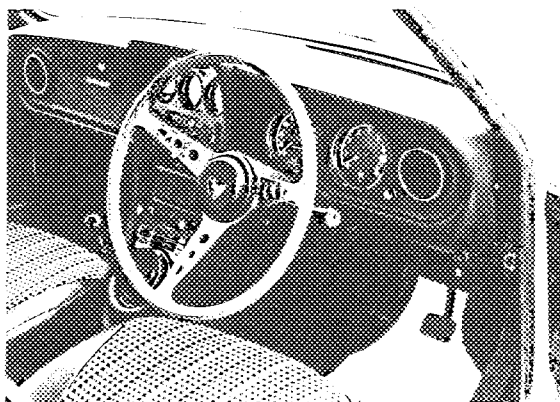
During the scrutineering of cars entered in group 4 (Sportscars) only the following items of the present recognition form are to be taken into consideration : 1, 2, 3, 9, 20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 147, 148, 149, 150, 158,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

DX. Front Grill and Bonnet.



DX. Dashboard.



DX. Tail Lamps.



Following Optional parts are NOT VALID FOR GROUPS 1 ONLY.

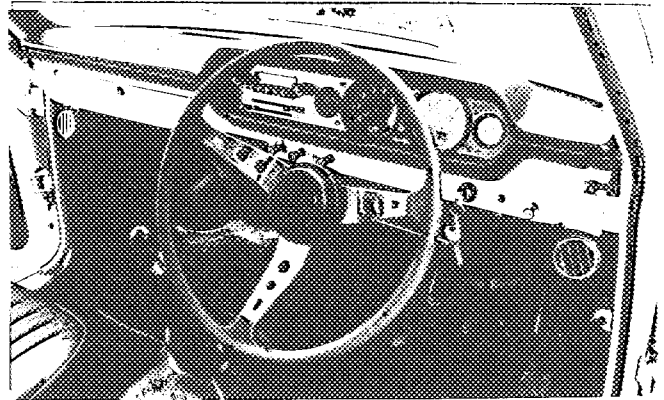
7	<u>Capacity of Fuel Tank (reserve included)</u>			60 litres	15.9 gal.US
				80 litres	21.1 gal.US
54/51	<u>Rim Width/Weight</u>	114 mm	4.5 inches	5.9 kg	
		127 mm	5.0 inches	6.4 kg	
292	<u>Type of Limited slip Differential</u>			Mechanical Type	
293	<u>Final drive ratio</u>	3.900	4.375	4.875	5.125
	<u>Number of teeth</u>	39/10	35/8	39/8	41/8
					43/8

Photograph

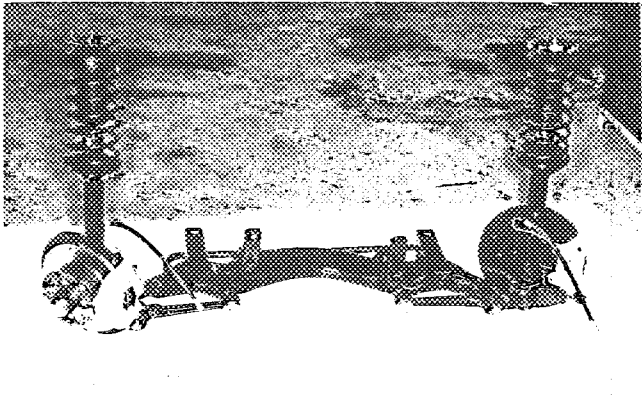
B, 3/4 view of car from rear



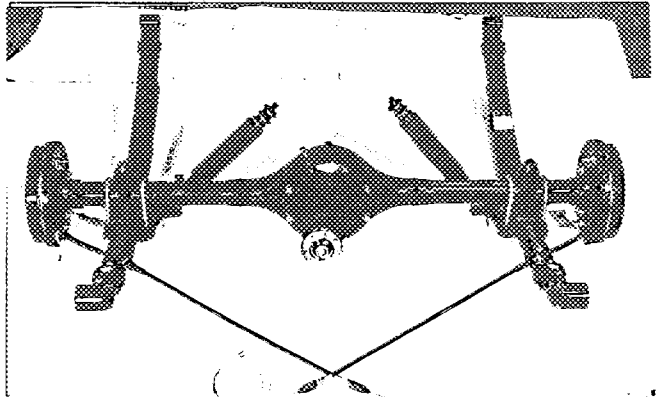
C, interior view of car through driver's door (open or removed) with dashboard



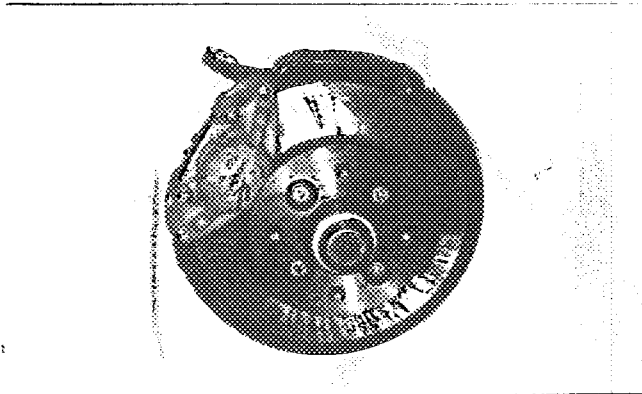
D, front axle complete, removed from car. Without wheels.



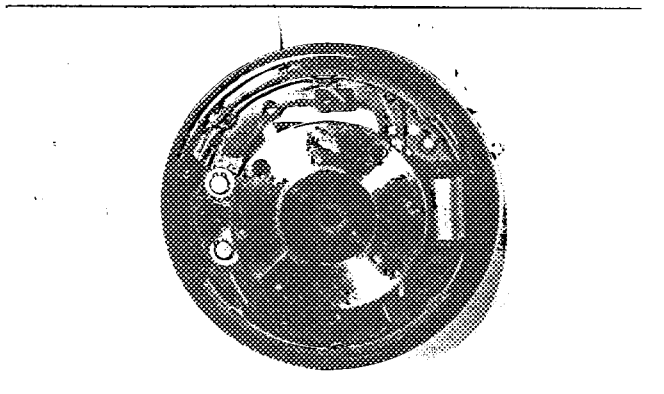
E, Rear axle complete without wheels, removed from car.



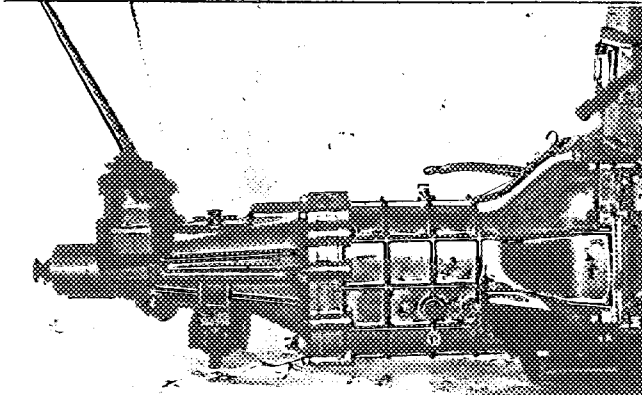
F, front brake, drum removed or disc with calipers)



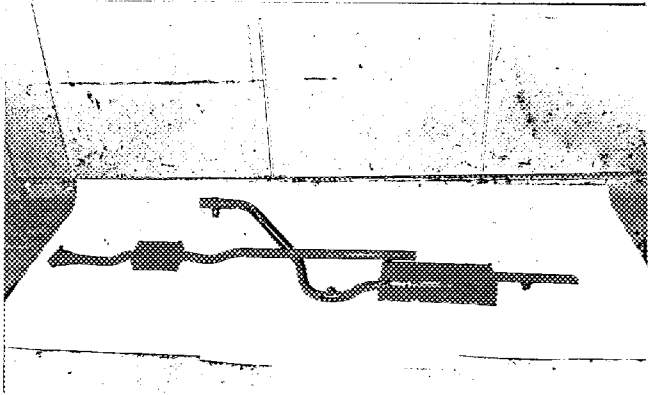
G, rear brake, drum removed or disc with calipers)



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold.



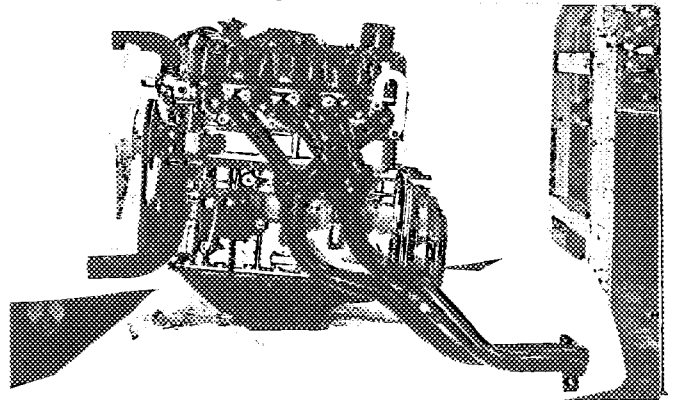
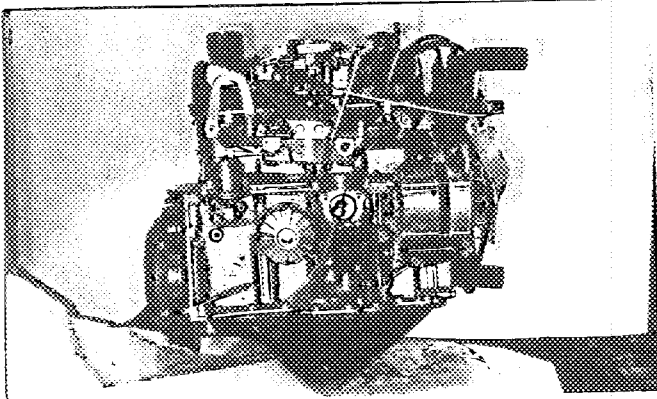
Make TOYO KOGYO

Model MKK
Photograph

F.I.A. Rec. No

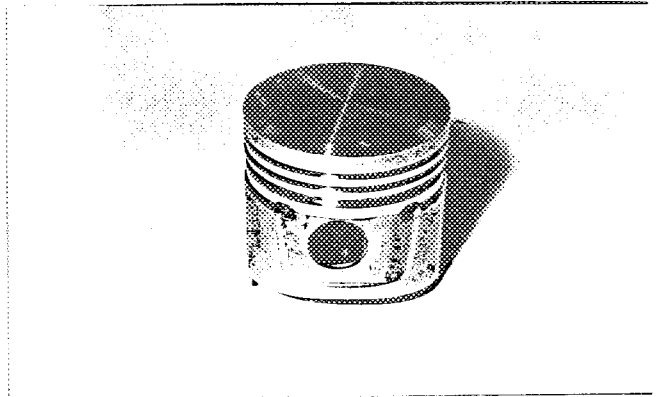
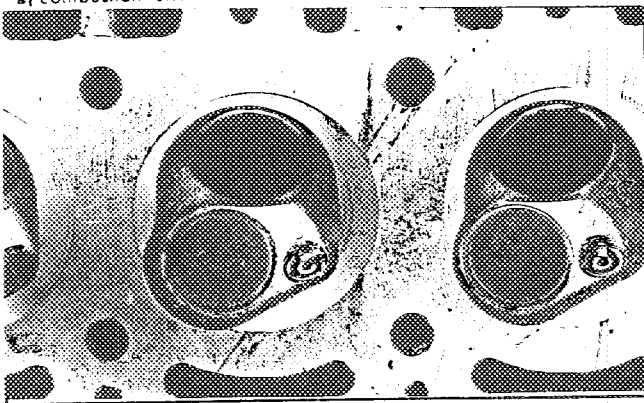
engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.

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



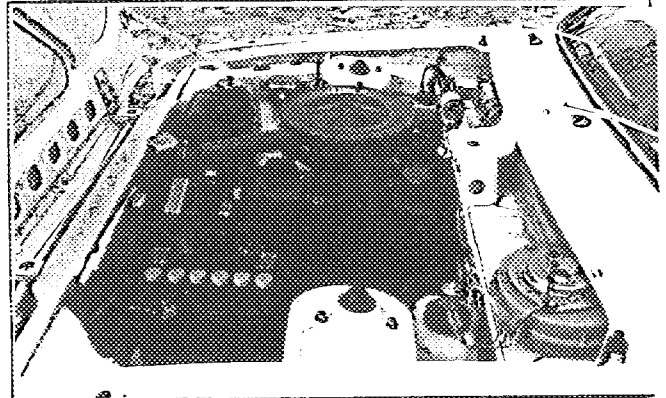
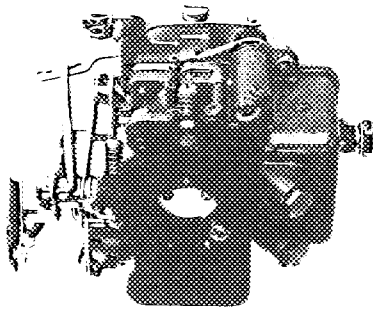
L, combustion chamber

M, piston crown



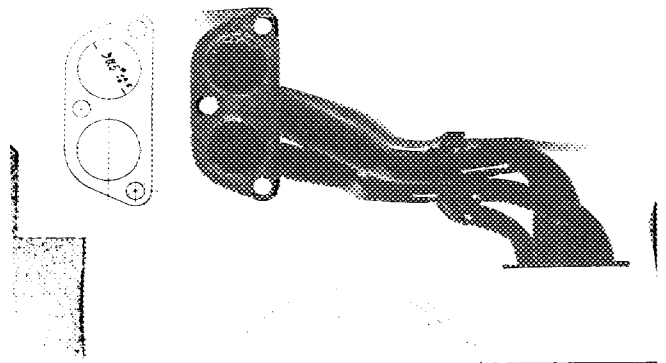
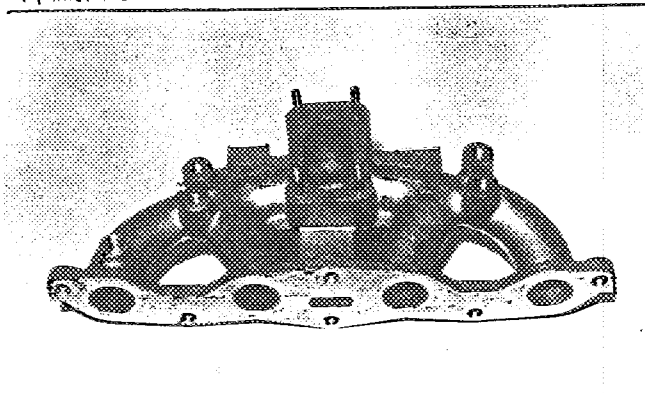
N, Carburettor (view from side of manifold)

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



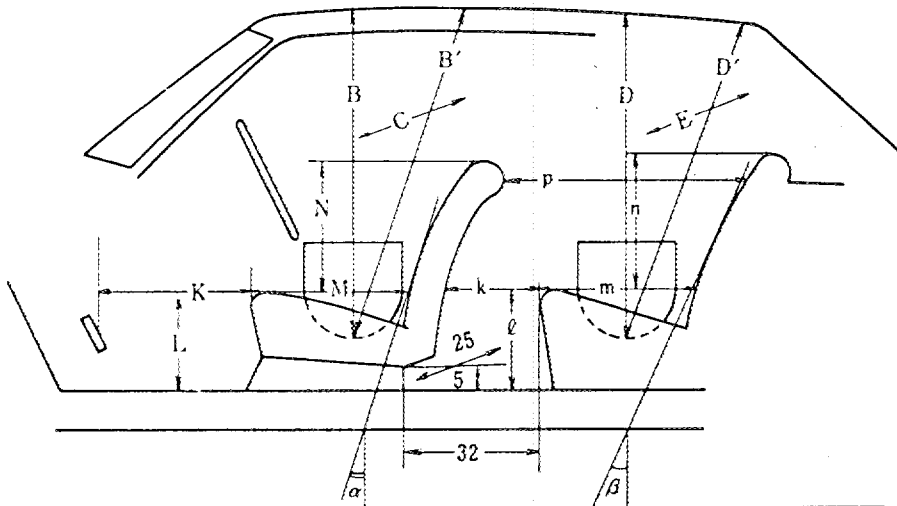
P, inlet manifold

Q, exhaust manifold



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	16°	123	89	87.5	10°	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)

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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

Kazunari Komotori