



# JAPAN AUTOMOBILE FEDERATION

F.I.A. Recognition No.  
Group 1

5349

## 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 <sup>3</sup>	71.34 cu. in.
Serial No. of chassis	STA-10001	Model	STA (MAZDA 1200 SEDAN)		
Serial No. of engine	TB-10001	Manufacturer	TOYO KOGYO		
Recognition is valid from	1/4/72	Manufacturer list	TOYO KOGYO 70/4		

The manufacturing of the model described in this recognition form was started on JUNE 19 68 and the minimum production of 5000 identical cars, in accordance with the specifications of this form was reached on FEB. 19 69

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.

*[Handwritten signature]*

*[Circular stamp: F.I.A. RECOGNITION]*

Page 1

Make TOYO KOGYO

Model STA

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.

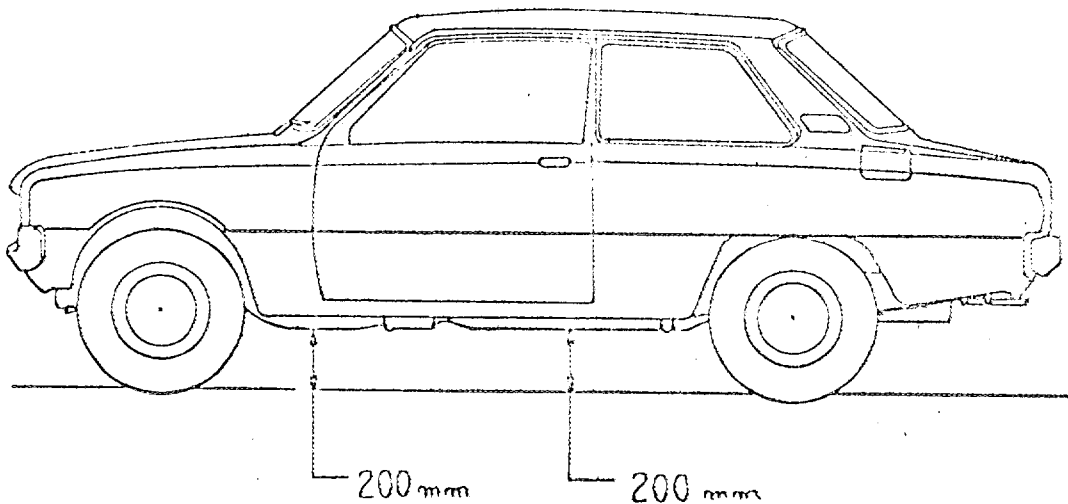
**CAPACITIES AND DIMENSIONS**

- 1. Wheelbase 2,260 mm 89.0 inches
- 2. Front track 1,200 mm 47.2 inches \*
- 3. Rear track 1,190 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. Capacity of fuel tank (reserve included) 40 ltrs  
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:  
670 kg 1477 lbs  
755 kg (Production #4-3) 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 <sup>2</sup>	1 gallon imp.	4.546 ltrs
1 cubic inch / pouce cube	16.367 cm <sup>3</sup>	1 gallon US	3.785 ltrs
1 pound / livre (lb)	453.593 gr.	1 hundred weight (cwt)	50.802 kg

STATIONER  
Page 2

**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 **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 **glass**
- 31. Sliding system of door windows **Vertical, Manual**
- 32. Material (s) of rear-quarter light **glass**

**ACCESSORIES AND UPHOLSTERY**

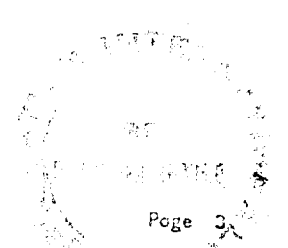
- 38. Interior heating : ~~yes~~ - no
- 39. Air-conditioning : ~~yes~~ - no
- 40. Ventilation : yes - ~~yes~~
- 41. Front seats, type of seats and upholstery **Separate Seat & Vinyl Leather**
- 42. Weight of front seat (s), complete with supports and rails, out of the car :  
**13 x 2** kg **lbs**
- 43. Rear seats, type of seats and upholstery **Bench Seat & Vinyl Leather**
- 44. Front bumper, material (s) **Steel** Weight **3.6** kg **lbs**
- 45. Rear bumper, material (s) **Steel** Weight **2.7** kg **lbs**

**WHEELS**

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

**STEERING**

- 60. Type **Ball and Nuts TYPE**
- 61. Servo-assistance : ~~yes~~ - no
- 62. Number of turns of steering wheel from lock to lock **3.7**
- 63. In case of servo-assistance



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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
- 75. Rear suspension (photogr. E), type Rigid Axle ~~Coil, Leaf Springs~~
- 76. Type of spring ~~Semi-Elliptic Leaf Spring~~
- 77. 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				1	
	FRONT				REAR	
	2				1	
93. Number of cylinders per wheel	2				1	
94. Bore of wheel cylinder (s)	22.22	mm	in.	19.05	mm	in.
<b>Drum brakes</b>						
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 <sup>2</sup>	sq. in.	12800	mm <sup>2</sup>	sq. in.
<b>Disc brakes</b>						
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 <sup>2</sup>	sq. in.		mm <sup>2</sup>	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 <sup>3</sup>	17.9	cu. in.	
136. Total cylinder-capacity	1169	cm <sup>3</sup>	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 <sup>3</sup>	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 / stamped		148. Type of crankshaft :	integral /		
149. Number of crankshaft main bearings	5				
150. Material of bearing cap	Al-Alloy				
151. System of lubrication : <del>XXXXXX</del> / oil in sump					
152. Capacity, lubricant	3	litrs		pts	
153. Oil cooler : <del>yes</del> / no				quarts US	
155. Capacity of cooling system	3.5	litrs		quarts US	
156. Cooling fan (if fitted), dia.	32	cm		inches	
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	163. Connecting rod	0.52	kg	lbs
164. Piston with rings and pin	0.37	kg		lbs		

**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 4) \***

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. 183. Number of valve springs 1  
 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) 14° BTDC ± 7°  
 188. Valves close at (with tolerance for tappet clearance indicated) 53° ABDC ± 7°  
 189. Air filter, type Dry

**EXHAUST (see page 4)**

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. 198. Number of valve springs  
 199. Type of spring Coil 200. Number of valves per cylinder  
 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 in.  
 216. Minimum dimensions of mixture passage(s) with piston at max. height: ~~XXXXXXXXXXXXXXXXXXXX~~ inches  
 20 & 26 mm

**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.

Make TOYO KOGYO

Model

STA

F.I.A. Rec. No.

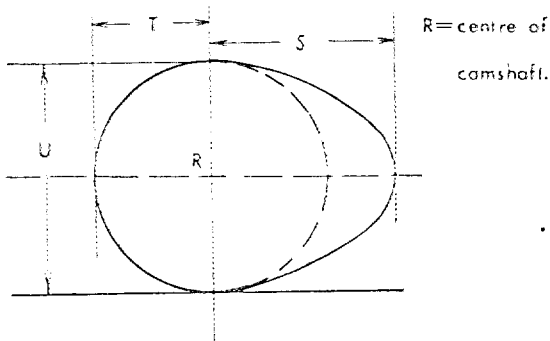
ENGINE ACCESSORIES

- 230. Fuel pump : mechanical ~~XXXXXXXXXXXX~~
- 231. No. fitted 1
- 232. Type of ignition system Make & Break ~~Ignition~~
- 233. No. of distributors 1
- 234. No. of ignition coils 1
- 235. No. of spark plugs per cylinder 1
- 236. Generator, ~~dyno~~ dynamo/alternator-number fitted 1
- 237. Method of drive V-Belt
- 238. Voltage of generator ~~12~~ 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 6000 rpm output at that figure 68 PS
- 252. Maximum torque 9.6 kg-m at 3000 rpm
- 253. Maximum speed of the car 145 km/hour miles / hour

255.



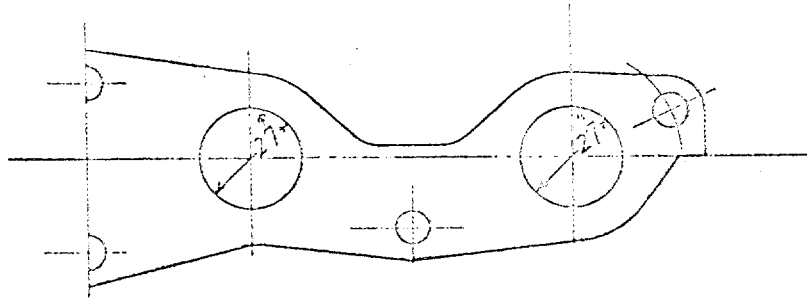
inlet cam

S =	21.6	mm	0.85	inches
T =	15.0	mm	0.59	inches
U =	30.0	mm	1.20	inches

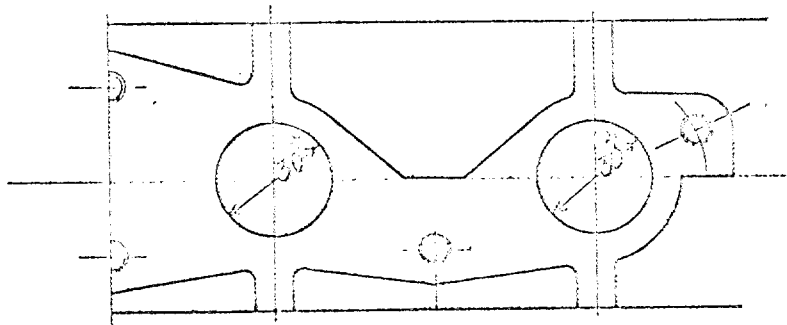
Exhaust cam

S =	21.6	mm	0.85	inches
T =	15.0	mm	0.59	inches
U =	30.0	mm	1.20	inches

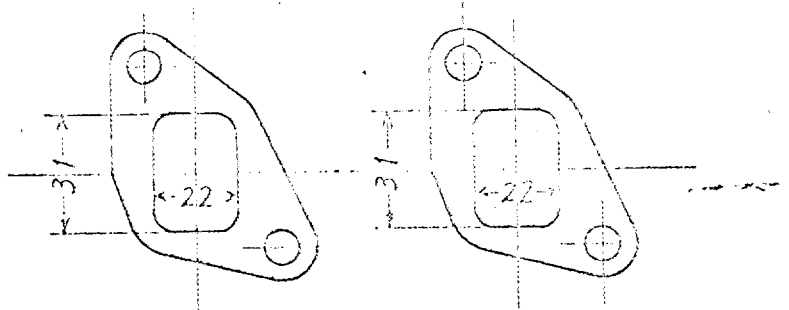
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



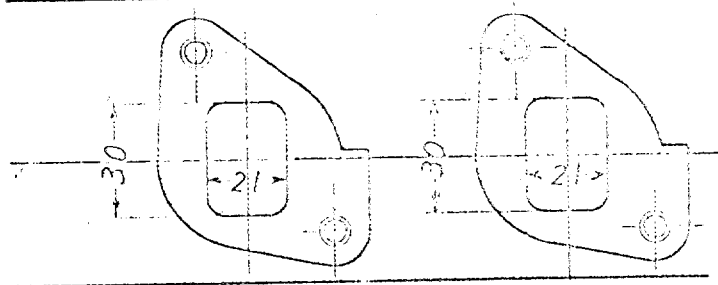
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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



Drawing of exit to exhaust part of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



Unit: mm

Tolerance:  $\pm 1.5$



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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 **18.4** 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**

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

Photograph A

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

690 kgs      1521 lbs



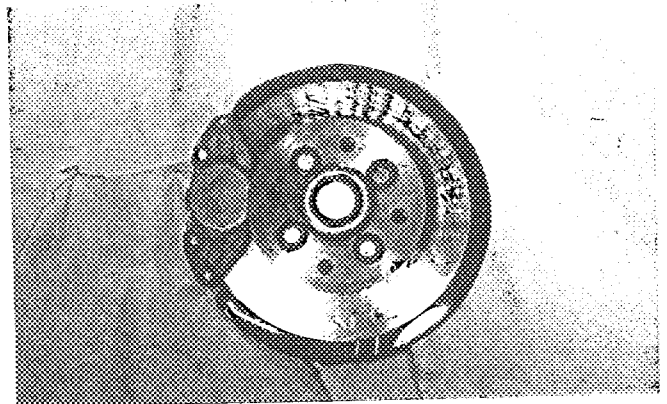
Wheel

53	<u>Rim diameter</u>	330 mm	13 inches	
54	<u>Rim width and weight</u>	102 mm	4 inches	5.5 kgs

AK2 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 <sup>2</sup>

Photograph F

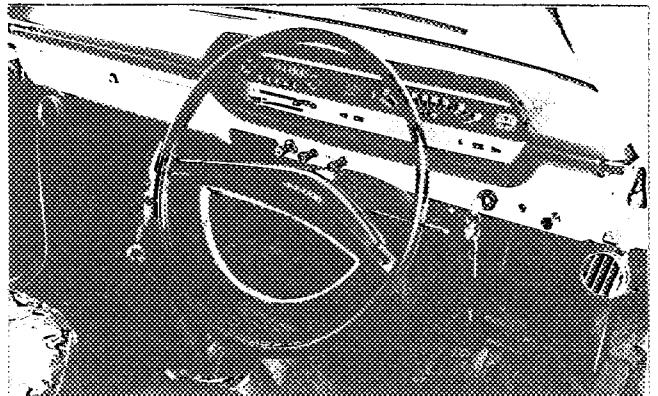


Photograph

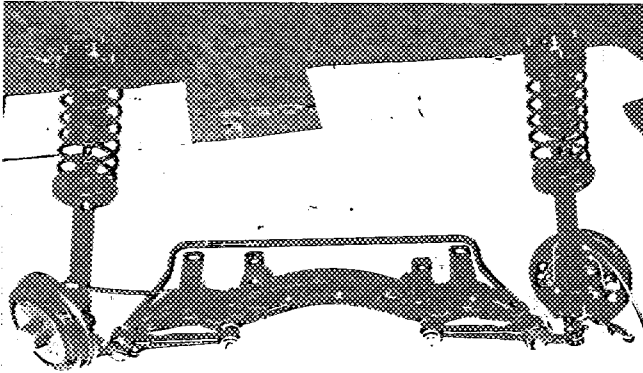
B, 3/4 view of car from rear



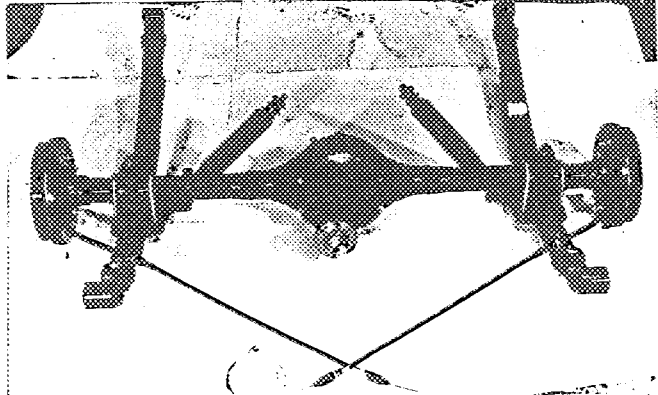
C, interior view of car through driver's door (top) or removed with dashboard



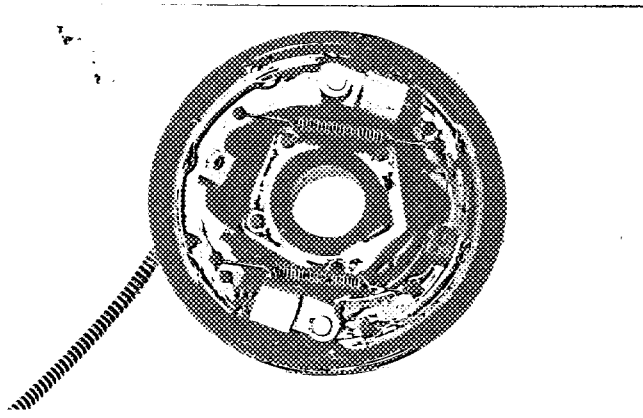
D, front axle complete, removed from car. Without wheels.



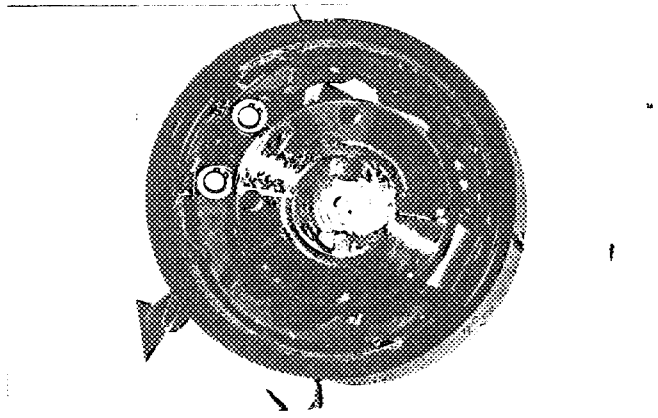
E, Rear axle complete without wheels, removed from car



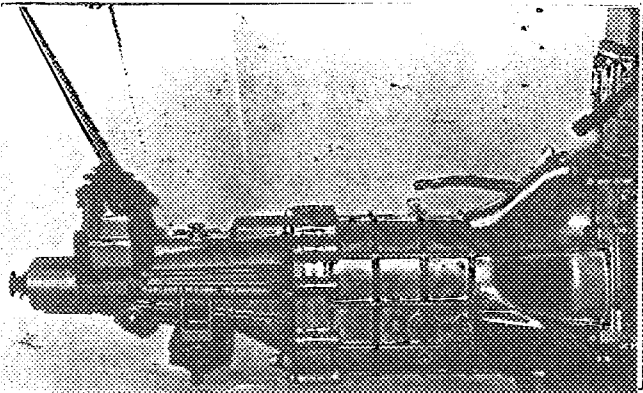
F, front brake, drum removed or disc with calipers



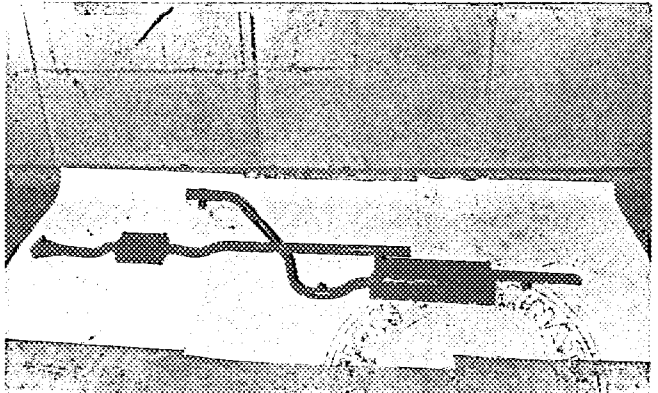
G, rear brake, drum removed or disc with calipers



H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold.



Make TOYO KOGYO

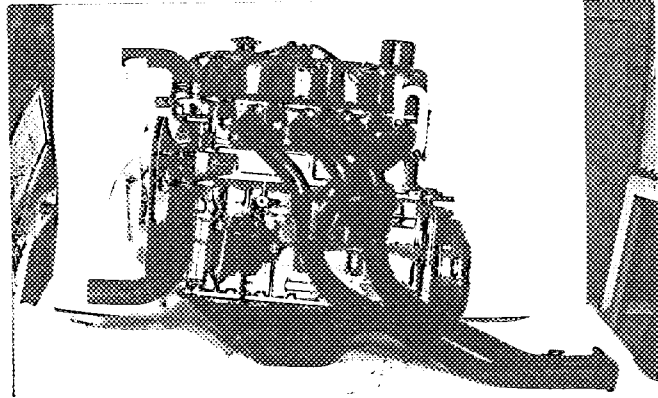
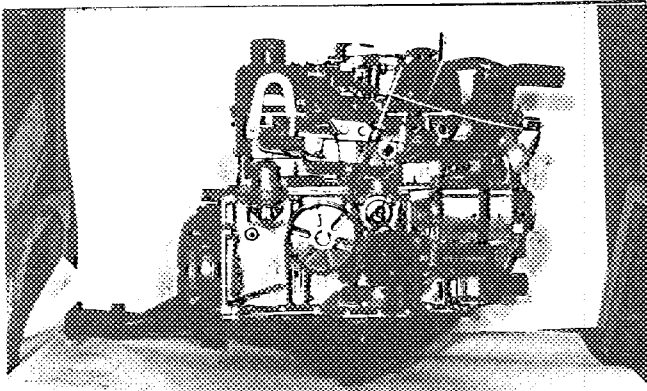
Model STA

F.I.A. Rec. No

Photograph

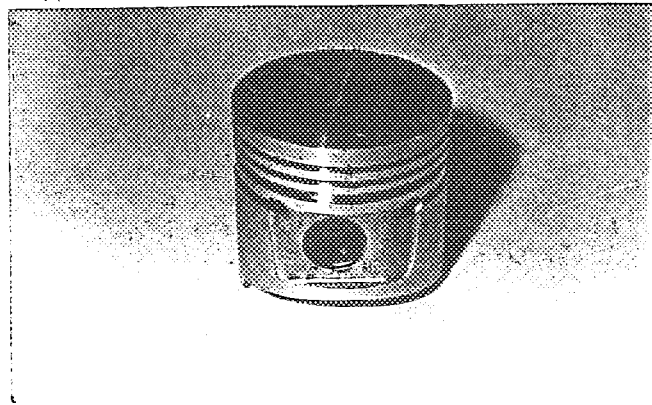
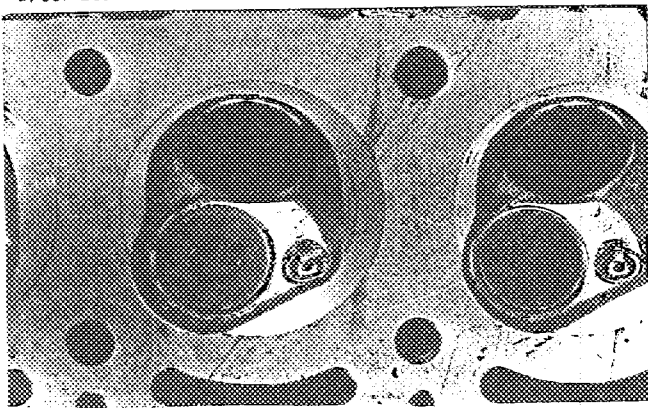
J, engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.

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



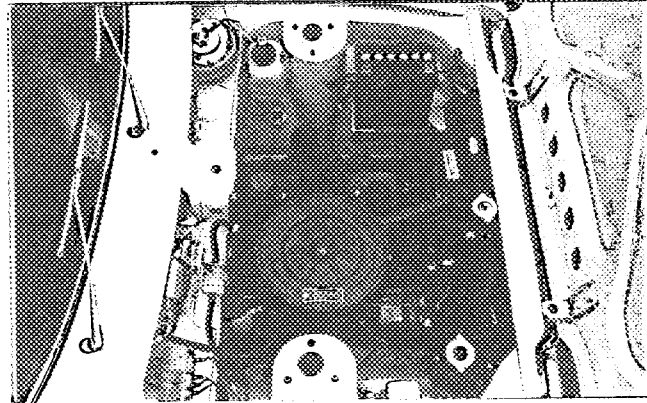
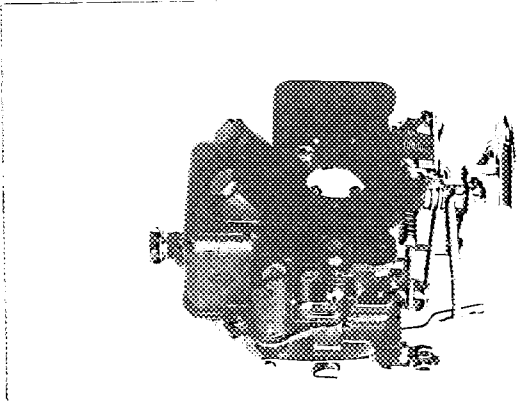
L, combustion chamber

M, piston crown



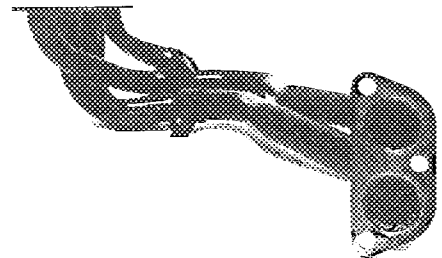
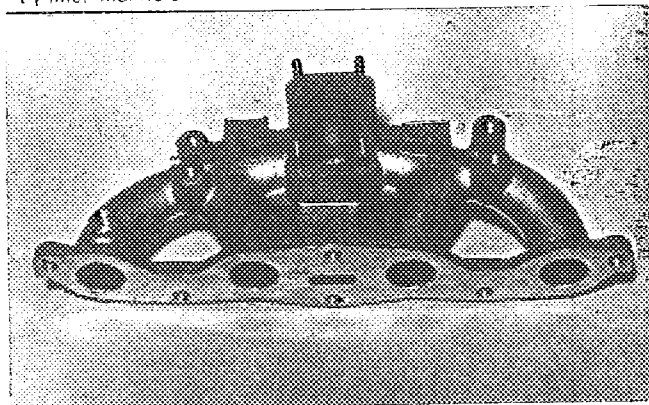
N, Carburettor (view from side of manifold)

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



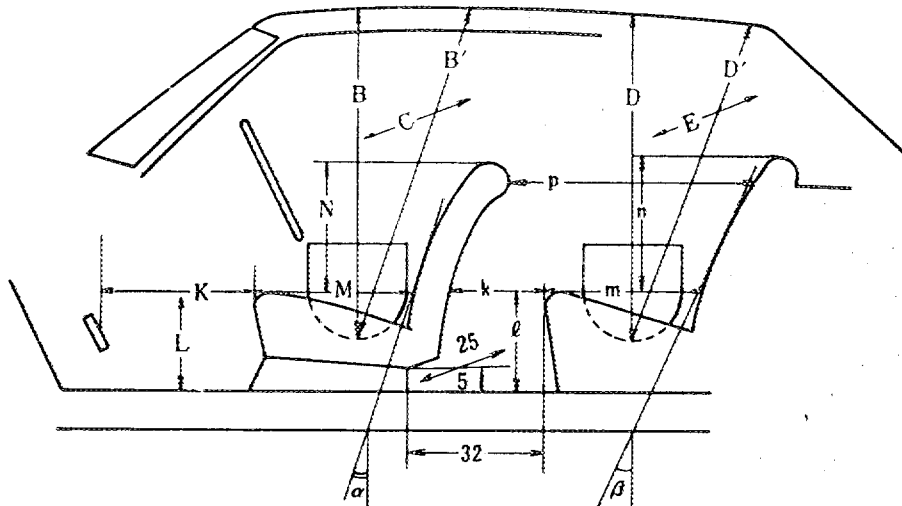
P, inlet manifold

Q, exhaust manifold



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

For four seaters :



Minimum Dimensions (cm)							
B	B'	$\alpha$	C	D	D'	$\beta$	E
92	97	16°	123	91	90	21°	123

Minimum Dimensions (cm)										
L	$\ell$	M	m	N	n	k+m	p	k	k+ $\ell$ +m	K+L+M
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 mm<sup>2</sup> sq. in.
305. Exhaust ports, length measured around cylinder wall mm inches
306. Height exhaust port mm in. 307. Area mm<sup>2</sup> sq. in.
308. Transfer port, length measured around cylinder wall mm inches
309. Height transfer port mm in. 310. Area mm<sup>2</sup> sq. in.
311. Piston ports, length measured around piston mm inches
312. Height piston port mm in. 313. Area mm<sup>2</sup> 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

渡山博史

Hiroshi Niwayama