JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. 5375
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.

Serial No. of chassis SPC-10001
engine PC 1001

Cylinder-capacity 985 cm3 60.08 cu. in.

Model SPC (MAZDA 1000 SEDAN)

Manufacturer TOYO KOGYO

Manufacturer TOYO KOGYO

Recognition is valid from List

The manufacturing of the model described in this recognition form was started on MAR. 1970 and the minimum production of 5000 identical cars, in accordance with the specifications of this form was reached on JUN. 1970

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 of the F. I. A.

Make TOYO KOGYO Model SPC 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 coversion table hereafter.

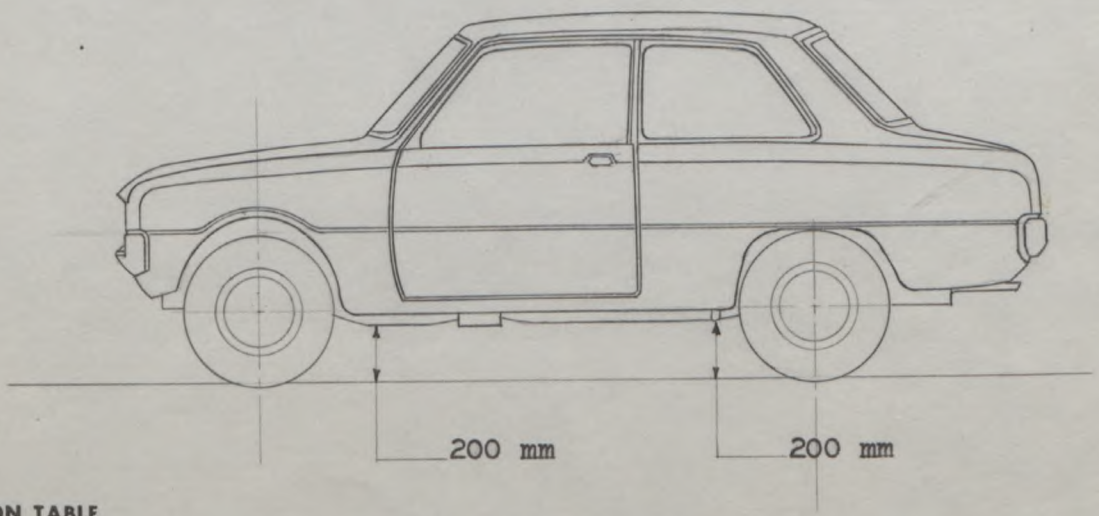
CAPACITIES AND DIMENSIONS

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			139.0	cm		inches
7. Capacity of fuel tank (reserve included)					40	l trs
	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:						
	700	kg	1543	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	

Make TOYO KOGYO Model SPC F. I. A. Rec. No.

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 : ~~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 305 mm 12 inches
54. Rim width 102 mm 4 inches

STEERING

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

Make TOYO KOGYO Model SPC F. I. A. Rec. No.

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.

Make TOYO KOGYO Model SPC F. I. A. Rec. No.

ENGINE (photographs J and K)

130. Cycle 4
131. Number of cylinders 4
132. Cylinder arrangement In Line
133. Bore 70 mm 2.756 in.
134. Stroke 64 mm 2.520 in.
135. Capacity per cylinder 246 cm³ 15.02 cu. in.
136. Total cylinder-capacity 985 cm³ 60.08 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 31.6 cm³ 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
42.6 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 : xxx / 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) 12.04 kg lbs
162. Crankshaft 13.15 kg lbs
163. Connecting rod 0.49 kg lbs
164. Piston with rings and pin 0.30 kg lbs

Make TOYO KOGYO Model SPC F. I. A. Rec. No.

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 and~~ Rocker-Arm

INLET (see page 81) *

180. Material(s) of inlet manifold Al-Alloy

181. Diameter of valves 35 mm 1.38 inches

182. Max. valve lift 9 mm 0.354 in. 183. Number of valve springs 2

184. Type of spring Coil 185. Numbdr of valves per cylinder 1

186. Tappet clearance for checking timing (cold) 0.25 mm inches

187. Valves open at (with tolerance for tappet clearance indicated) 13° ± 7° B.T.D.C.

188. Valves close at (with tolernce for tappet clearance indicated) 50° ± 7° A.B.D.C.

189. Air filter, type Dry

EXHAUST (see page 81)

195. Material (s) of exhaust manifold Cast Iron

196. Diameter of valves 30 mm 1.18 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 carburettors fitted 1 211. Type Down Draught

212. Make NIKKI 213. Model 216268

214. Number of mixture passages per caburettor 2

215. Flange hole diameter of exit port(s) of carburetteor 26 & 28 mm in.

216. Minimum dimensions of mixture pasage (s) ~~xx xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx~~

19 & 24 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. Locafion of injectors

225. Minimum diameter of inlet pipe mm inches

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*) for additional information concerning two-stroke engines and super-charged engines see page 13.

Make TOYO KOGYO Model SPC F. I. A. Rec. No.

ENGINE ACCESSORIES

230. Fuel pump : mechanical ~~and / xxxxxxx~~

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: ~~xxxxx~~/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)

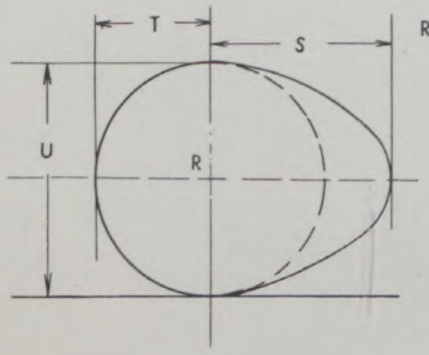
250. Max. engine output 62 PS (type of horsepower: JIS) at 6000 rpm

251. Maximum rpm 6000 output at that figure 62 PS

252. Maximum torque 8.1 Kg-m at 3500 rpm

253. Maximum speed of the car 140 km / hour miles / hour

255.

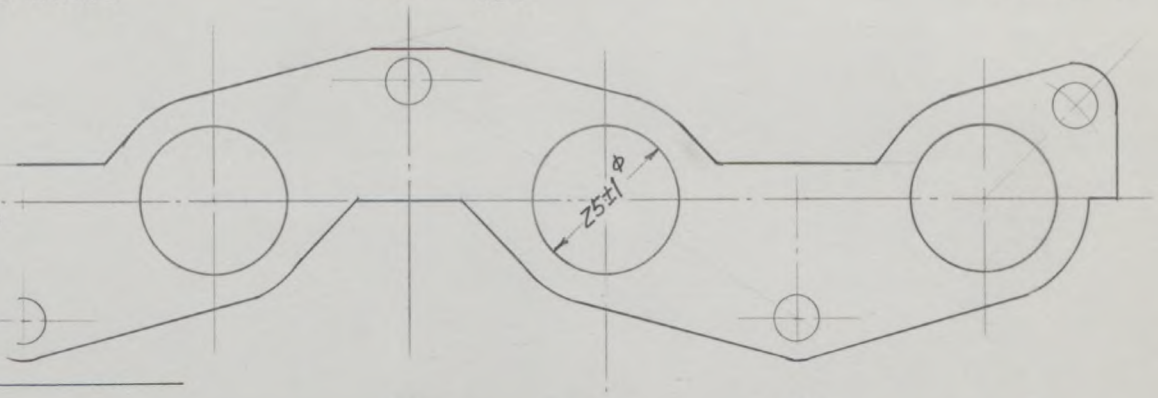


R=centre of camshaft.

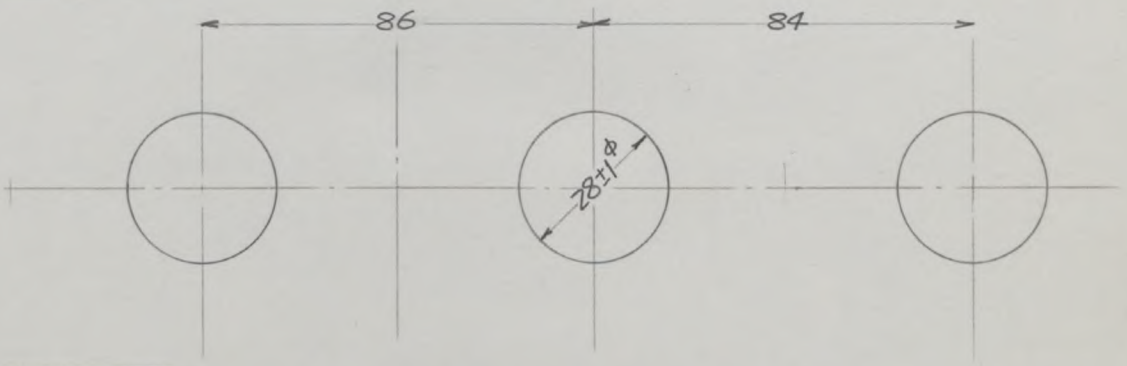
Inlet cam				
S =	25.1	mm	0.95	inches
T =	19	mm	0.75	inches
U =	38	mm	1.50	inches
Exhaust cam				
S =	25.1	mm	0.95	inches
T =	19	mm	0.75	inches
U =	38	mm	1.50	inches

Make TOYO KOGYO Model SPC F. I. A. Rec. No.

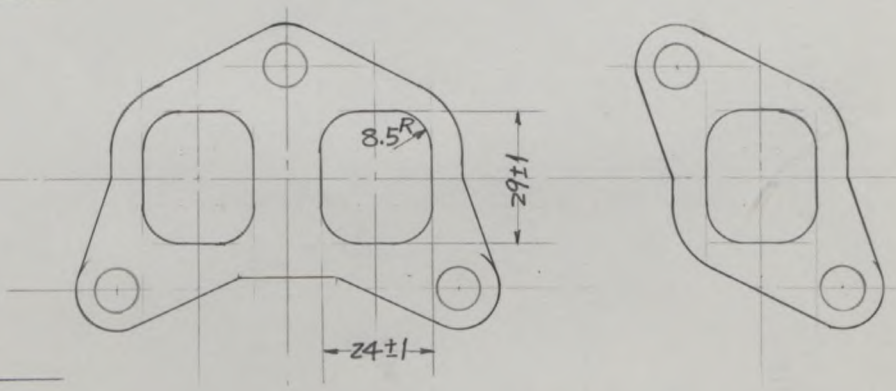
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



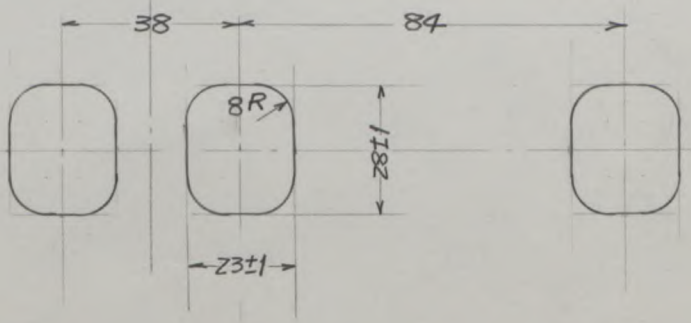
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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

Make TOYO KOGYO Model SPC F. I. A. Rec. No.

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 Ratio	Manual No. teeth	Automatic Ratio	Automatic No. teeth	Alternative manual/~~XXXXXX~~ Ratio	Alternative manual/~~XXXXXX~~ 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: 4.375 , 4.625
Number of teeth: 35 / 8 , 37 / 8

Make TOYO KOGYO Model SPC 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. 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 equipement affecting preceeding information. This to be stated together with reference number.

4 DOOR TYPE

Photograph A

9. Weight, Total weight of the car with normalequipment.

720 Kg 1587 lbs.

30. Material(s) rear-door window Glass

WHEEL

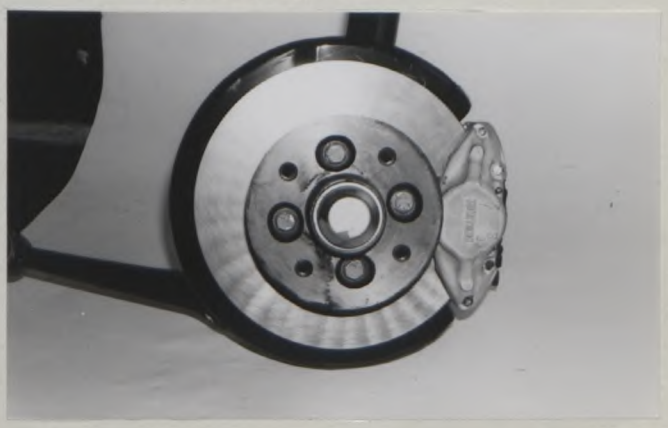
53. Rim diameter 330 mm 13 in

54. Rim width and weight 102 mm 4 in , 5.5 Kg

DISC BRAKE

Photograph F

	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^2



93. No. of cylinders per wheel 2

94. Bore of wheel cylinder 48.0 mm

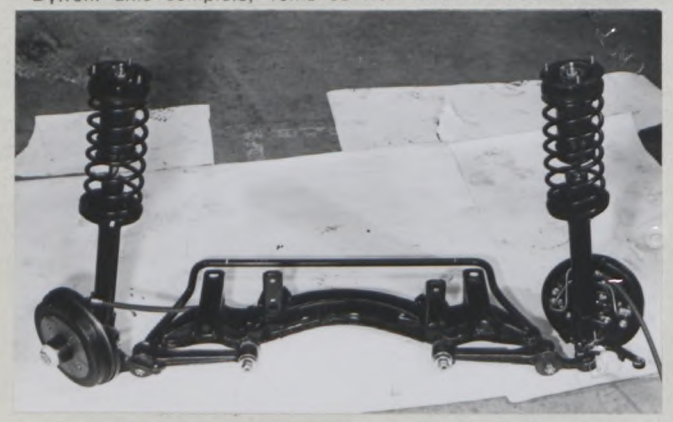
Make TOYO KOGYO Model SPC F. I. A. Rec. No.

Photograph

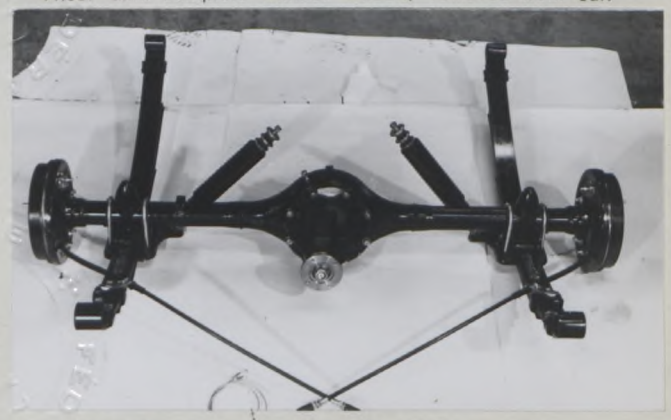
B, 3/4 view of car from rear

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

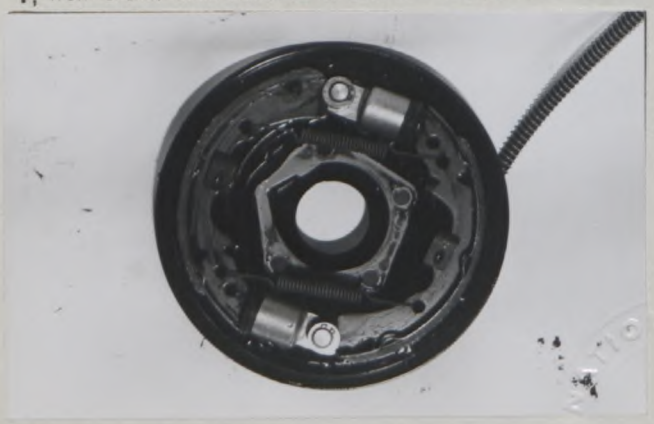
D, front axle complete, removed from car. Without wheels.



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

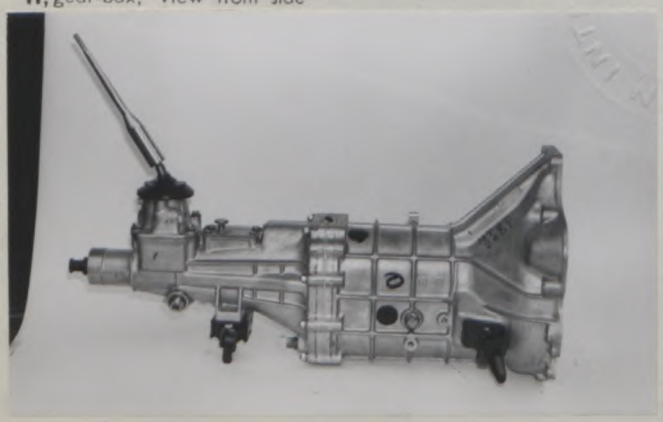


F, front brake, drum removed or disc with caliper(s)

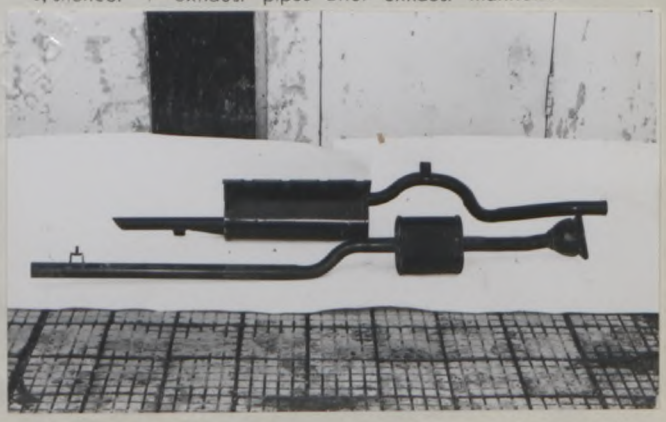


G, rear brake, drum removed or disc with caliper(s)

H, gear-box, view from side



I, silencer + exhaust pipes after exhaust manifold.



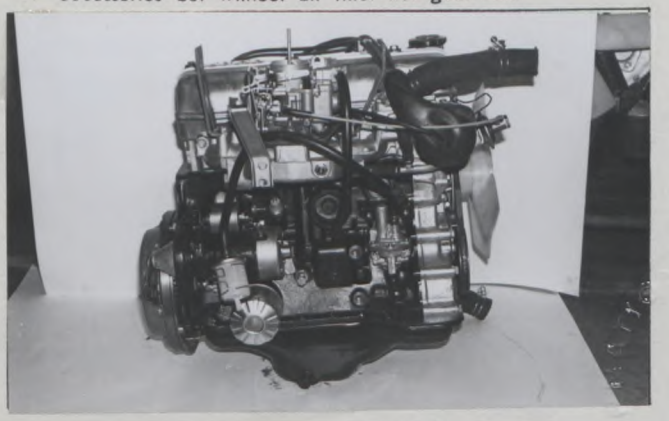
Make TOYO KOGYO

Photograph

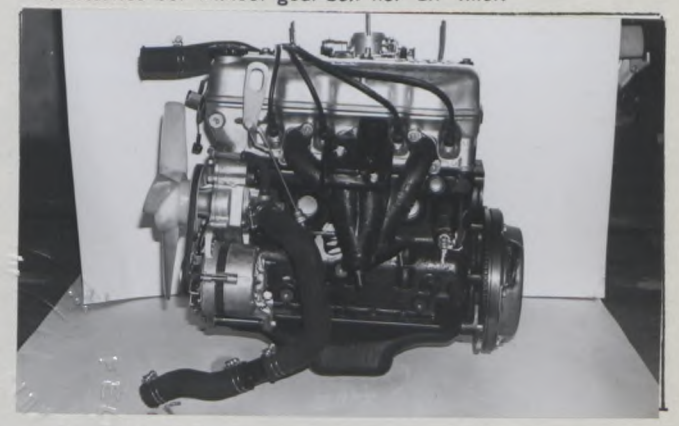
Model SPC

F. I. A. Rec. No

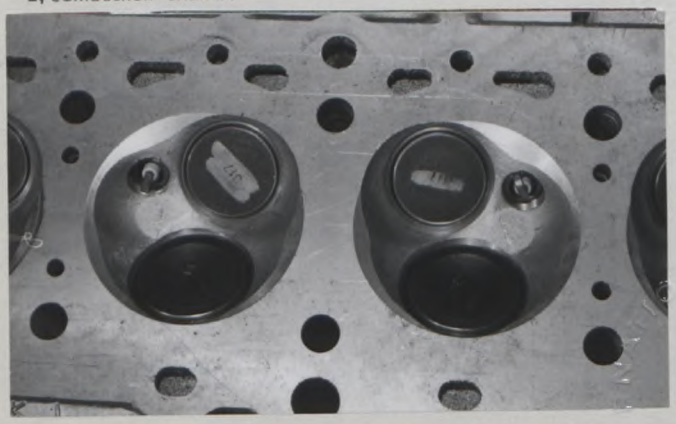
J, engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.



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

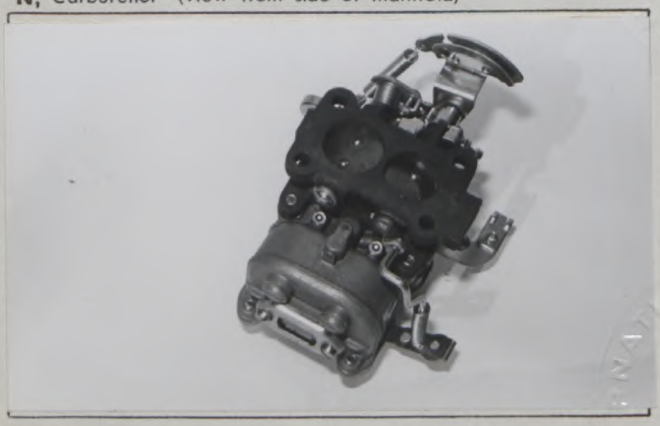


L, combustion chamber

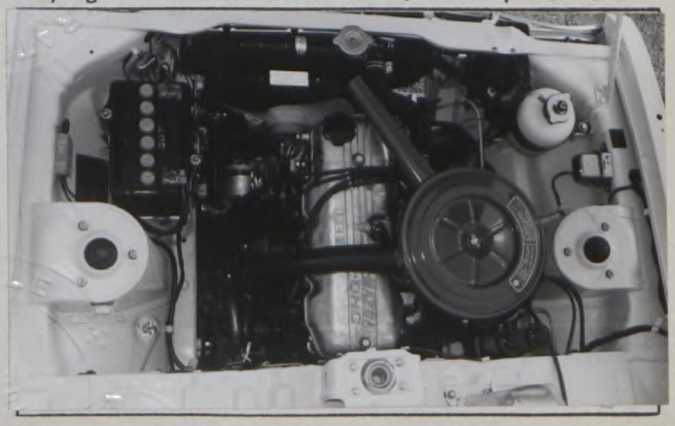


M, piston crown

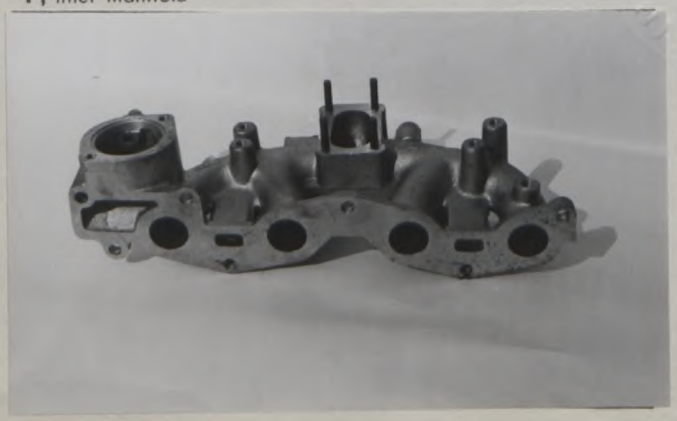
N, Carburettor (view from side of manifold)



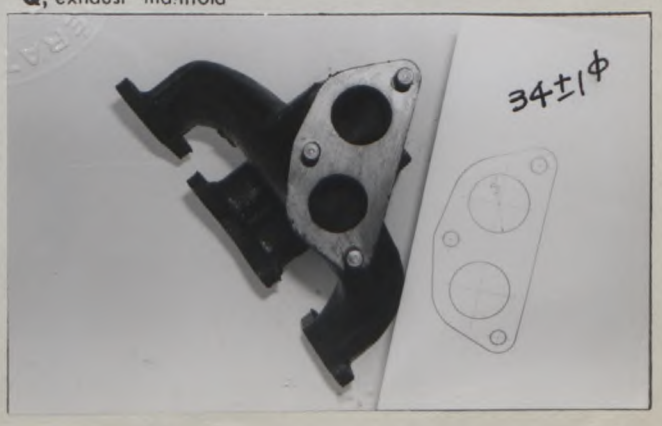
O, engine in car with all accessories, bonnet open or removed.



P, inlet manifold



Q, exhaust manifold



Make TOYO KOGYO Model SPC 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 mm^2 sq. in.

305. Exhaust ports, length measured around cylinder wall mm inches

306. Height exhaust port mm in. 307. Area mm^2 sq. in.

308. Transfer port, length measured around cylinder wall mm inches

309. Height transfer port mm in. 310. Area. mm^2 sq. in.

311. Piston ports, length measured around piston mm inches

312. Height piston port mm in. 313. Area mm^2 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

難波靖治

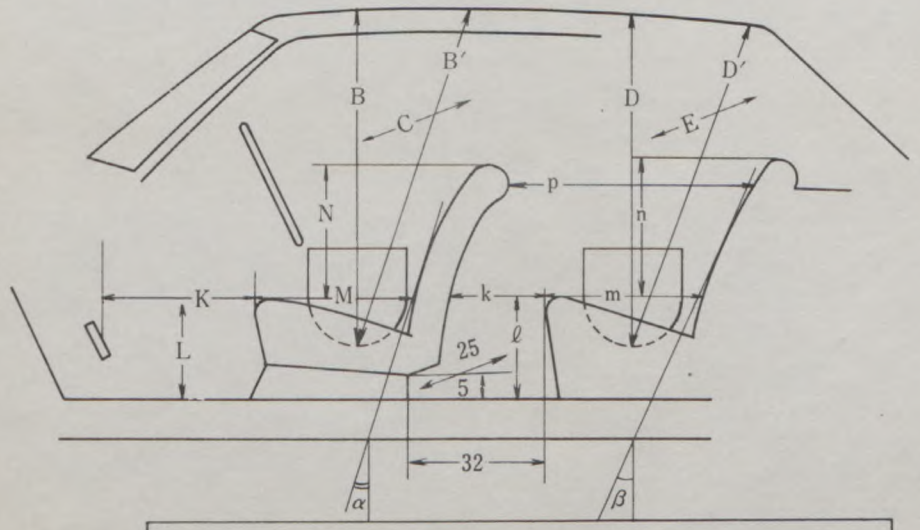
Yasuharu Nanba

Make TOYO KOGYO Model SPC F.I.A. Rec. No.

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+M
29.0	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)