

JAPAN AUTOMOBILE FEDERATION

F. L. A. Recognition No. 5377

ARRIVÉ le

F.I.A. - S.G.

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer TOYO KOGYO CO., LTD.

chassis SNA-10001 engine SNA-1001

Recognition is valid from

Cylinder-capacity 1586 cm3 Model MAZDA SNA (CAPELLA 1600)

Manufacturer TOYO KOGYO Manufacturer TOYO KOGYO

The manufacturing of the model described in this recognition form was started on MAY 19.70 and the minimum production of 5000 identical cars, in accordance with the specifications of this form was reached on SEP. 19 70

Photograph A 3 4 view of car from front



The vehicle described in this form has been subject to the following amendments

Verneunts					lution of the 1		
on.	19	rec No	Liss	on	19	rec. No.	List
on	19	rec. No	Lest	on	19	rec. No	L, st
on	19	rec No	List	. on	19	rec. No.	List
On	: 9	rec No	L-st	on	19	rec. No	Li st
on	} 9	rec. No	L: st	on	19	rec. No	1.51

Stamp and signature of the National Sporting Authority

Stamp and signature of the F. L. A

Page 1

Total 15 Sheets.

1. Wheelbase

IMPORTANT: the underlined items must be stated in two measuring systems, one of which must be the metric system. See coversion table hereafter.

97.2 inches

CAPACITIES AND DIMENSIONS

865

2.	Front track	1,285 mm		50.6 inches *	
3.	Rear track	1,280 mm		50.4 inches *	
4.	Overall length of the cor		415.0 cm		inches
5.	Overall width of the car		158.0 cm		inches
6	Overall height of the car		139.5 cm		inches
7.	Capacity of fuel tank freserve included	<u>}</u>		50	t trs
	13.2 Gallon US			Gallon	lmp.
8.	Seating capacity 5				
9.	Weight, total weight of the car with	normal equipment, wo	ter, oil and spare	wheel but without f	fuel nor repair tools:

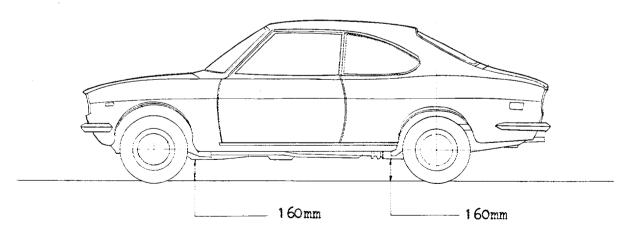
2,470 mm

* Differences in track caused by the use of other wheels with different rimiwidths must be stated when recognition is requested for the wheels concerned.

1,907 ibs

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

Ì	inch / pouce	2.54 cm	I quart US	- 0,946	4 ltrs
}	foot / pied	30.4794 cm	t pint (pt)	0.568) trs
}	square inch/pouce carré	6.452 cm ²	T gallon lmp	4.546	ltrs
Ì	cubic inch, pouce cube	16.387 cm ³) gallon US	3.785	itrs
1	pound / livre (1b)	453.593 gr.	1 hundred weight (cwt)	50.802	_

CHASSIS AND COACHWORK (Photographs A, B and C)

- 20. Chassis / body construction: XXXXXXX / unitary construction
- 2). 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
- 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 39. Air-conditioning : XXX -

Glass

- 40. Ventilation : yes -
- 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
- 11.5x2 kg
- Bench, Vinyl Leather 43. Rear seats, type of seats and upholstery 44. Front bumper, material (s)

Steel

45. Rear bumper, material (s) Weight Steel 5.1 lbs

Weight

5.0

bs

lbs

WHEELS

- 50. Type Pressed Steel
- 5). Weight (per wheel, without tyre) 6.8
- 52. Method of attachment 4 Hub-Bolts
- 53. Rim diameter 330 inches
- 54. Rim width inches 102

STEERING

- 60. Type Ball and Nut Type
- 61. Servo-assistance : XXX -
- 62. Number of turns of steering wheel from lock to lock
- 63. In case of servo-assistance

SUSPENSION

105. Total area per brake

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 Telescop:	Ic
78.	Rear suspension (photogr. E), type	4 Links Type with Lateral Re-	Rigid Axle
79.	Type of spring	Coil	
80.	Stabiliser (if fitted)		
81.	Number of shockabsorbers 2 BRAKES (photographs F and G)	82. Type Hydraulic Telescop:	ic ·
90.	System	Hydraulic	
91.	Servo-assistance (if fitted), type	Vacuum Servo	
92.	Number of hydraulic master cylinders	2 (Tandem)	
		FRONT	REAR
93.	Number of cylinders per wheel	1	1
94.	Bore of wheel cylinder (s)	53.98 mm in.	17.46 mm in.
95.	Drum brakas 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 m m in.
98.	Number of shoes per brake		2
99.	Total area per brake	mm² sq. ir	
	Disc brakes		
100.	Outside diameter	230 mm in.	mm in.
101.	Thickness of disc	12 mm in.	mm in.
	Length of brake linings	90 mm . in.	mm in.
	. Width of brake linings	46 mm in.	mm in.
104	Number of pads per brake.	2	

8280 mm²

sq. in.

 mm^2

Make TOYO KOGYO

Model MAZDA SNA

F.I.A. Rec. No.

ENGINE (photographs J and K)

130. Cycle 131. Number of cylinders

132. Cylinder arrangement In Line

138. Material (s) of sleeves (if fitted)

133. Bore 78 3.07 in. 134. Stroke 3.27 in. 83

135. Capacity per cylinder 396.5 24.2 cu. in.

136. Total, cylinder-capacity 96.8 cu. in. 1586

137. Material (s) of cylinder block Cast Iron

139. Cylinder-head, material (s) Aluminium Alloy Number fitted 1

141. Number of exnaust ports 140. Number of inlet ports

8.6 142, Compression ratio

52,2 143. Volume of one combustion chamber cm^3 cu. in.

144. Piston, material Aluminium Alloy 145. Number of rings

146. Distance from gudgeon pin centre line to highest point of piston crown

41.25 mm inches

148. Type of crankshaft : integral / XXXXX 147. Crankshaft: moulded / Markped

149. Number of crankshaft main bearings 5

150. Material of bearing cap

Cast Iron

151. System of lubrication: XXXXXXX / oil in sump

152. Capacity, lubricant 3,6 ltrs quarts US pts

153. Oil cooler: xxxx/ no 154. Method of engine cooling Water

155. Capacity of cooling system quarts US 7.0 Itrs pints

156. Cooling fan (if fitted), dia. inches 33 cm

157. Number of blades of cooling fan 4

Bearings

158. Crankshaft main, type Dia. Plain 63

159. Connecting rod big end, Dia. Plain 53

Weights

160. Flywheel (clean) 10.2 kg bs

161. Flywheel with clutch (all turning parts) 15.1 kg lbs

162. Crankshaft 16.8 kg lbs 163. Connecting rod 0.76 kg lbs

164. Piston with rings and pin lbs kg 0.39

inches

FOUR STROKE ENGINES

170. Number of camshafts 1 171 Location Cylinder Head

172. Type of comshaft drive Chain

173 Type of valve operation Over Head Camshaft and Rocker-Arm

INLET isee page 81 *

180. Materialis' of inlet manifold Aluminium Alloy

181. Diameter of valves

182. Max. valve lift

9.5 mm

0.374

1.65 inches

2

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

186. Tappet clearance for checking timing (cold)

0.3 mm inches

187. Valves open at (with tolerance for tappet clearance indicated) $13\pm7^{\circ}$ B.T,D.C. 188. Valves close at (with tolerance for tappet clearance indicated) $54\pm7^{\circ}$ A.B.D.C.

189. Air filter, type Dry

EXHAUST (see page 8)

195. Material (s) of exhaust manifold Cast Iron

196. <u>Dinmeter of valves</u>

197. <u>Max. valve lift</u>

198. Number of valve springs

2

197. Max. valve lift 9.5 mm 0.374 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

202. Valves open at (with tolerance for tapper clearance indicated): $57 \pm 7^{\circ}$ B.B.D.C.

203. Valves close at (with tolerance for tapper clearance indicated) $10 \pm 7^{\circ}$ A.T.D.C.

CARBURETION (photograph N)

210. Number of corburettors fitted 1 211. Type Down Draught

212. Make NIKKI 213. Model 215282-231

214. Number of mixture passages per caburettor 2

215. Flange hole diameter of exit port(s) of carburetteor 28 & 33 m

216. Minimum dimensions of mixture pasage (s) with pister at max height toximple 6001.

23 &28 mm inches

INJECTION of fitted

220. Make of pump 221. Number of piungers

222. Model or type of pump 223. Total number of injectors

224. Location of injectors

225. Minimum diameter of inlet pipe mm inches

^{*1} for additional information concerning two-stroke engines and super-charged engines see page 13.

Make TOYO KOGYO

Model MAZDA SNA

231. No. fitted

233. No. of distributors

237. Method of drive

239. Battery, number

235. No. of spork plugs per cylinder

F. I. A. Rec. No.

ENGINE ACCESSORIES

230.	Fuel	pump		WXXXXXXXXX	electric
------	------	------	--	------------	----------

232. Type of ignition system Make & Break

234. No. of ignition coils

236. Generator, type: decount/alternator-number fitted

238. Voltage of generator

12

241. Voltage of battery

240. Location

Engine Room

12 volts

165

voits

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

250. Max. engine output

253. Maximum speed of the car

100 PS (type of horsepower: JIS) at *

km/hour

6000

V Belt

251. Maximum rpm

6000

output at that figure

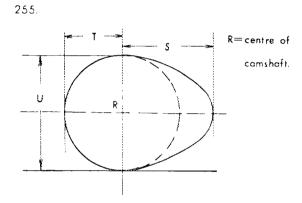
100 PS

252. Maximum torque

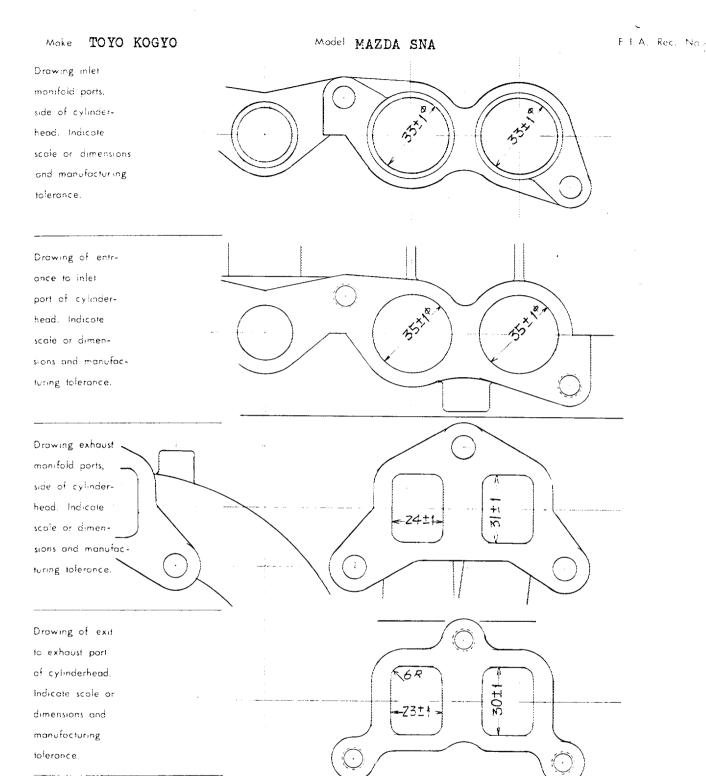
14.0 kg-m of

3500 rpm

miles / hour



Inlet car	<u>11</u>			
s =	25.7	mm	1.01	inches
T =	19.0	mm	0.75	inches
U =	38.0	mm	1.50	inches
Exhaust	cam			
s =	25.7	mm	1.01	inches
τ =	19.0	mm	0.75	inches
U =	38,0	mm	1,50	inches



Unit: mm

DRIVE TRAIN

CLUTCH

260. Type of clutch

Dry Plate

261. No. of plates

262. Dia. of clutch plates

20.0 cm

inches

263. Dia, of linings, inside

13.0 cm

in. outside

20.0 cm

264. Method of operating clutch

Hydraulic

GEAR BOX photograph H)

TOYO KOGYO

Method of operation Mechanical

27). No. of gear-box ratios forward

272. Synchronized forward ratios 1,2,3 & 4

273. Location of gear-shift

270. Manual type, make

Floor

274. Automatic, make

type

275. No. of forward ratios

276. Location of gear-shift

277.	Ratio	No. teeth	Automatic Ratio No. teeth	Ratio	Alternative manu No. teeth	ral / eutomotio Ratio	No. teeth
1	3.403	30 / 17 27 / 14		2.014	24 / 22 27 / 14		
2	2,005	30 / 17 25 / 22		1.608	24 / 22 28 / 19		
3	1.373	30 / 17 21 / 27		1.240	24 / 22 25 / 22	:	
4	1,000			1.000		:	
5						; ;	
6						:	
reverse	3,655	30 / 17 29 / 14		2,266	24 / 22 27 / 13	:	

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 lift fitted)

293. Final drive roba

3.700 , 4.111

Number of teeth

37 / 10, 37 / 9

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 1, M. N. and page 8

During the scrutmeering 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

Weight, total weight of the car with normal equipment.

885 kg

1940 lbs

30. materialis) of reardoor windows Glass



WHEEL

(;

54. Rim width and weight 114.3 mm

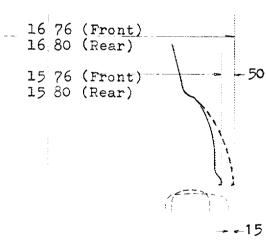
114.3 mm 4.5 in.

7.5 kg

N.B. Following optional equipments are VALID FOR GROUP $\stackrel{1}{\approx}$ ONLY.

FENDER EXTENSION KIT FRONT AND REAR





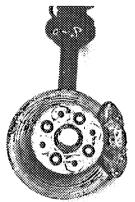
Unit: mm

Make	TOYO KOGYO		Model	MAZDA SNA	F.I.A.	Rec. No	٠.
		NOT		1			

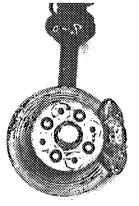
CONTINUE Optional equipment VALID FOR GROUP SONLY.

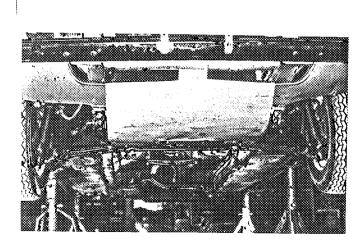
DISC	BRAKES	FR	ONT	REAR	
93.	Number of cylinder		2	1	
94.	Bore of wheel cylinder(s)	53.98	mm	31.75	mm
100.	Outside diameter	254	mm	230	mm
101,	Thickness of disc	20	mm	10	mm
102.	Length of brake linings	78	mm	97 .5	mm
103.	Width of brake linings	52	mm	37 .5	mm
104.	Number of pads per brake	2		2	
105.	Total area per brake	8112	mm ²	7312.5	mm S

Photograph F Front brake, disc with caliper.



PROTECTION SHIELD UNDER THE CAR



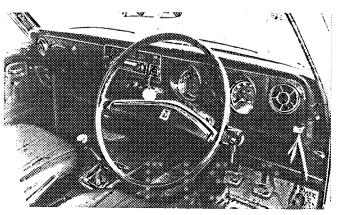


Photograph G

Rear brake, disc with caliper.

DASHBOARD Deluxe type

Photograph C Interior view

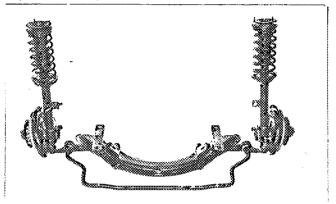


Page 10-2

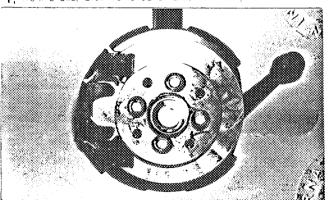
B, 3/4 view of car from rear



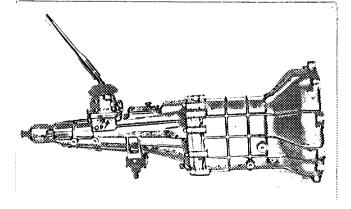
D, front axle complete, removed from car. Without wheels.



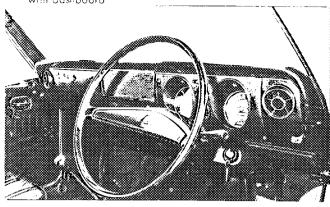
F, front brake, drum removed or disc with caliperts)



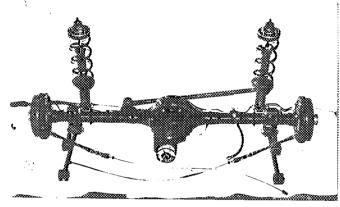
H, gear-bax, view from side



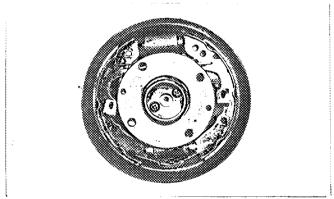
c interior view of car through driver's door (open or removed); with dashboard



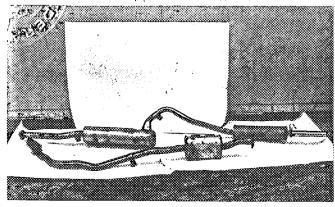
E, Rear axle complete without wheels, removed from car.



G, rear brake. drum removed or disc with caliperts!

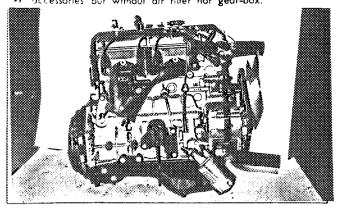


It stiencer + exhaust pipes after exhaust manifold.

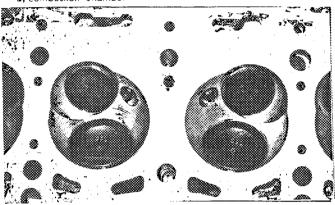


Make TOYO KOGYO

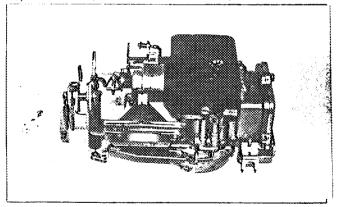
engine unit out of car, from right. With clutch and 3, accessories but without air filter nor gear-box.



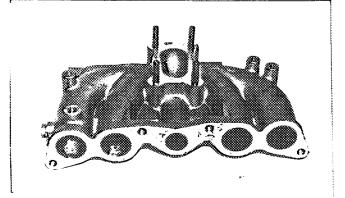
L, combustion chamber



N, Carburettor (view from side of manifold)



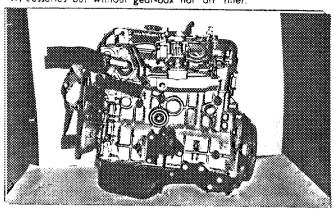
P, inlet manifold



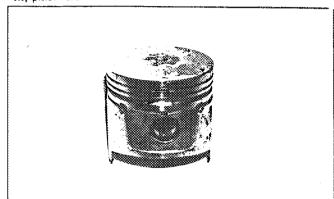
Model MAZDA SNA

F. I. A. Rec. No

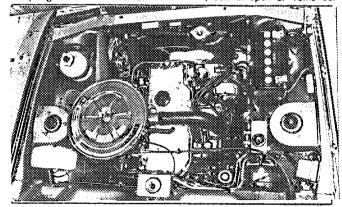
Photograph Engine unit out of car, from left. With clutch and ac-K, cessories but without gear-box nor air filter.

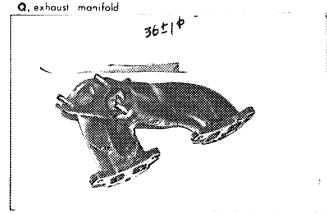


M, piston crown



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





TWO STROKE ENGINES

300.	System of cylinder scavenging					
301.	Type of lubrication					
302.	Inlet ports, length measured around cylinder wail				mm	inches
30 3.	Height inlet port mm	ín,	304.	Area	mm²	sa, in,
305.	Exhaust ports, length measured around cylinder wall				mm	inches
306.	Height exhaust part mm	m.	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	por	t :		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	por	t :		mm	inches
321.	Drawing of cylinder ports.					

330. Supercharging—state full details hereafter :

JAPAN AUTOMOBILE FEDERATION

Yasuharu Nanba