(533) 50

JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No 532

Group 3 — Grand Touring

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer Toyota Motor Co.,Ltd.

Serial No of chassis UP 15 - 10001
engine 2U - 10001

Recognition is valid from 1st February 1966

Cylinder-capacity 790 cm3 48.2 inches

Model UP 15

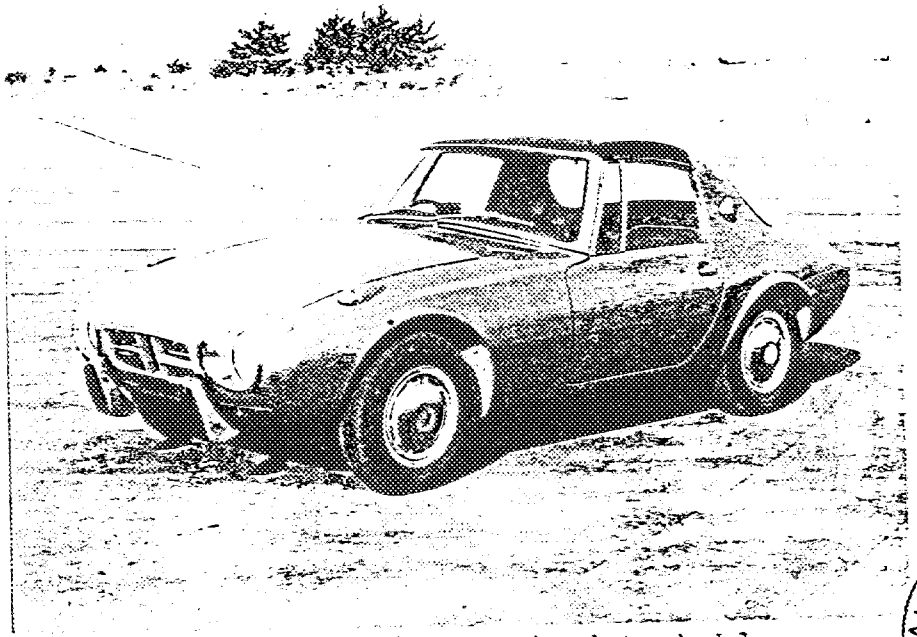
Manufacturer Toyota Motor Co.,Ltd.

Manufacturer Toyota Motor Co.,Ltd.

List 19/2

The manufacturing of the model described in this recognition form was started on Feb. 1965 and the minimum production of 500 identical cars, in accordance with the specifications of this form was reached on May 1965

Photograph A, 3/4 view of car from front



The black part of the top is detachable.

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

Kaneyasu Fujita
Chairman of C.S.

Stamp and signature of the F.I.A.

Page 1

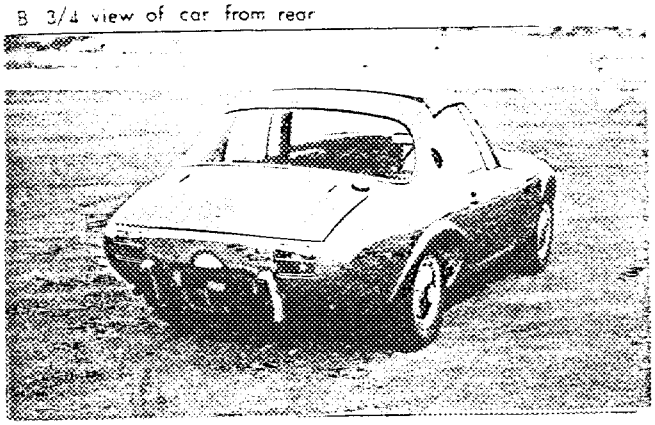
東京都港区芝公園第三号地一番五
機械振興会館内
社団法人 日本自動車連盟

Make Toyota

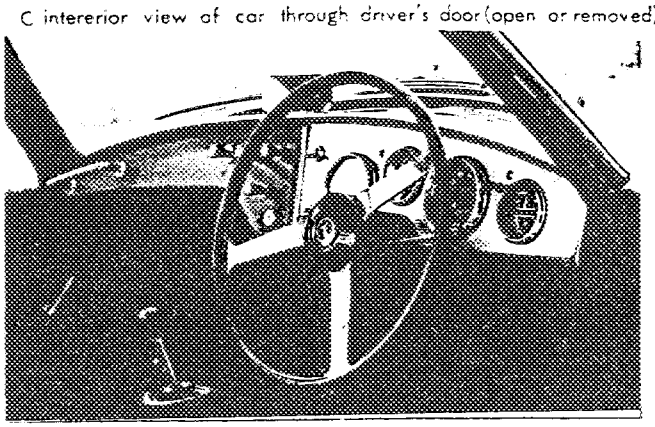
Photograph Model UP 15

F.I.A. Rec. No

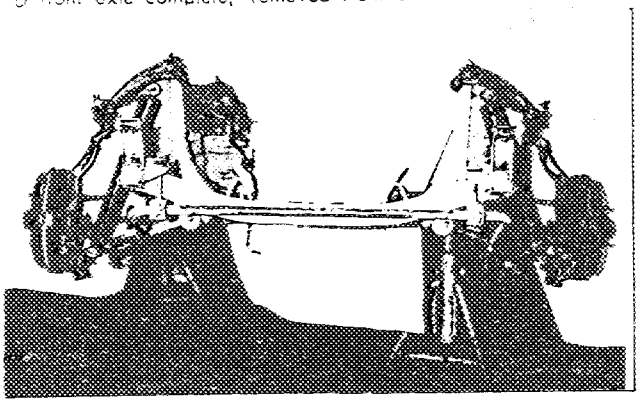
B 3/4 view of car from rear



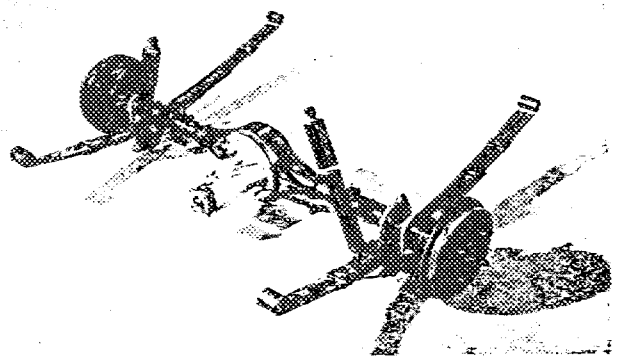
C intererior view of car through driver's door (open or removed)



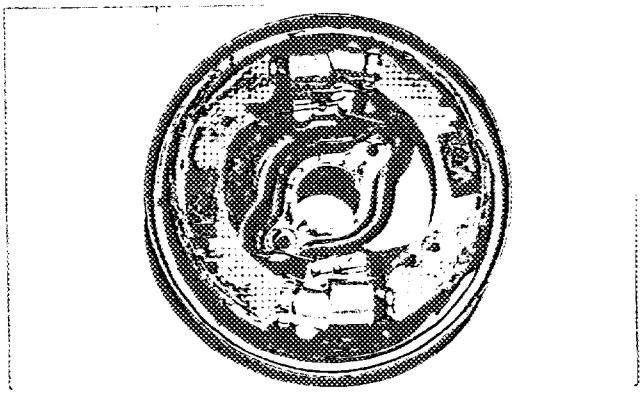
D Front axle complete, removed from car. Without wheels.



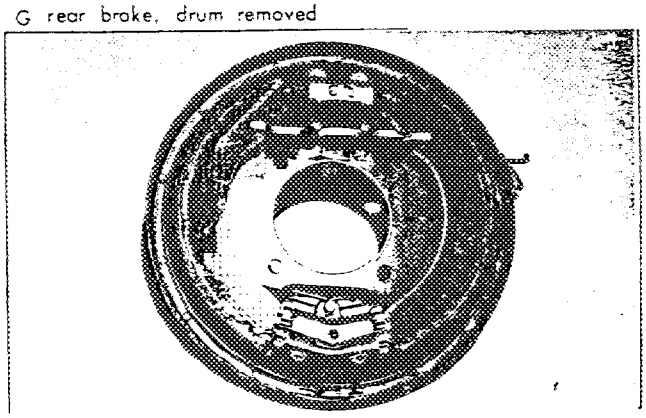
E Rear axle complete without wheels, removed from car.



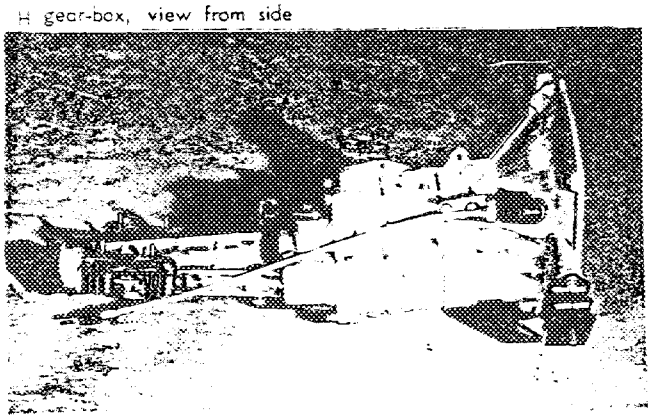
F Front brake, drum removed



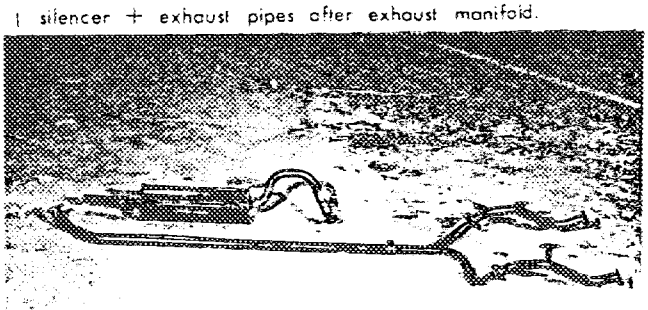
G rear brake, drum removed



H gear-box, view from side

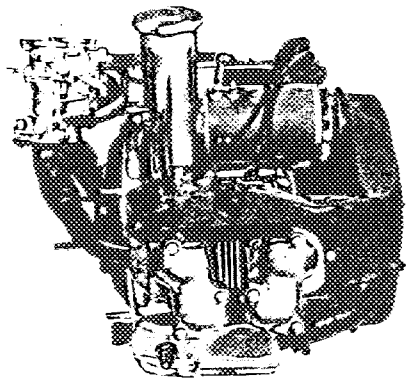


I silencer + exhaust pipes after exhaust manifold.

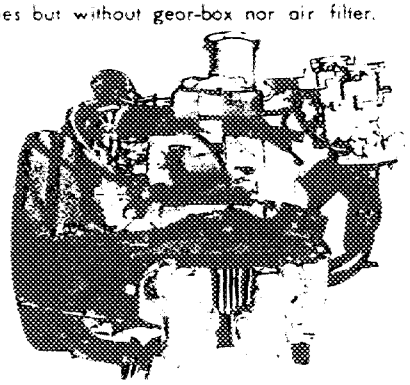


Make Toyota **Photograph** Model UP 15 F. I. A. Rec. No

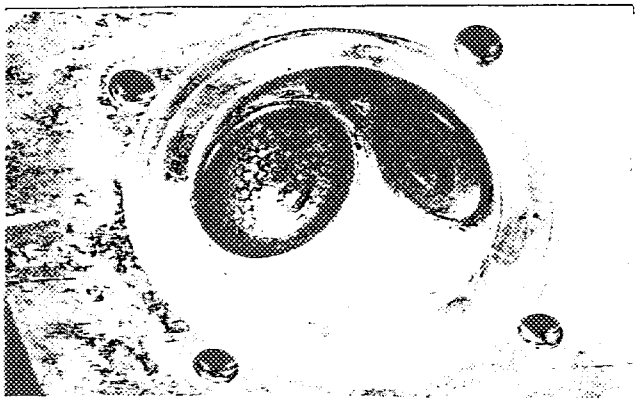
J engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box



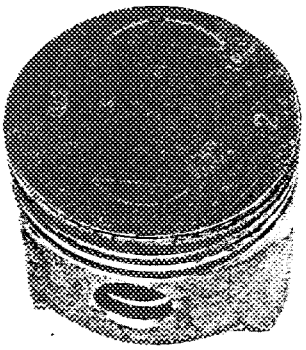
K Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



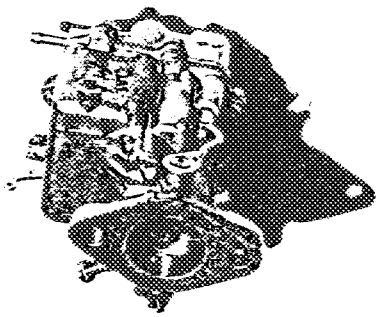
L combustion chamber



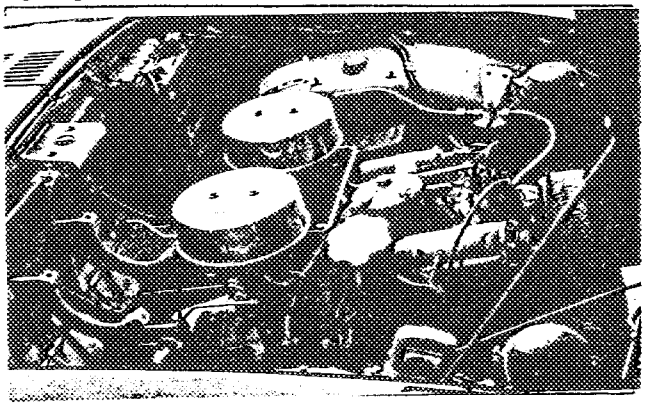
M piston crown



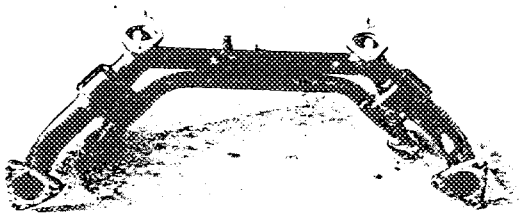
N Carburettor (view from side of manifold)



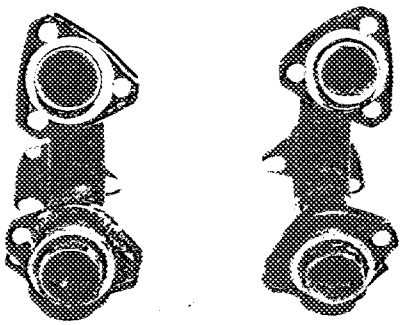
O engine in car with all accessories, bonnet open or removed.



P inlet manifold

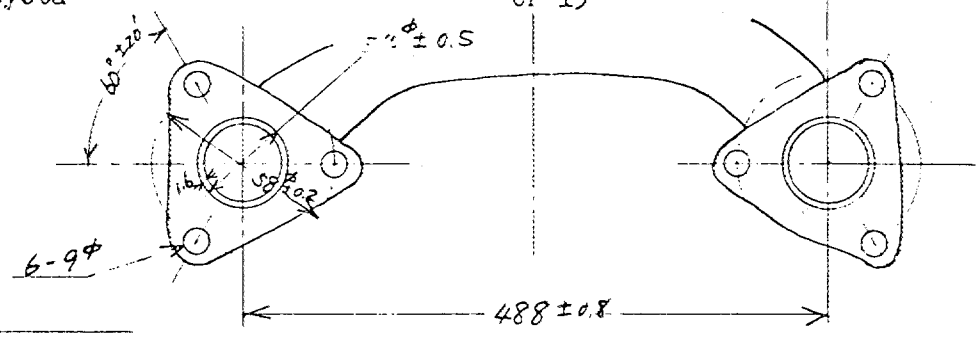


Q exhaust manifold

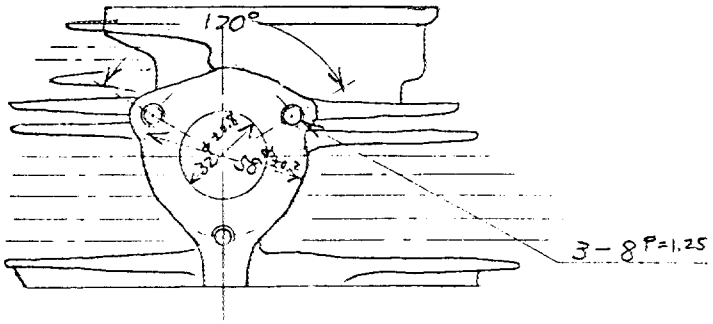


Make Toyota Model UP 15 F.I.A. Rec. No

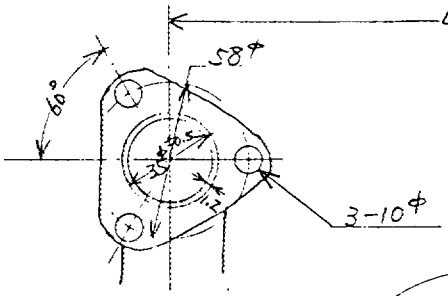
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



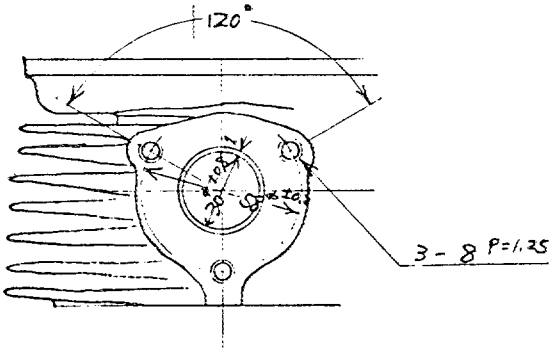
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.

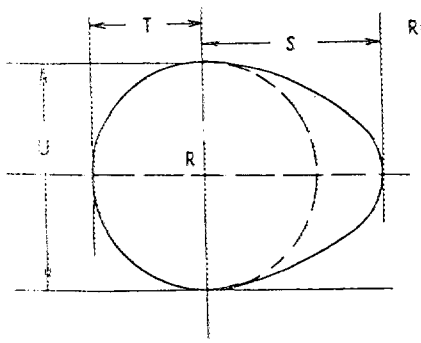


Drawing exhaust manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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





R=centre of camshaft.

Inlet cam

S = 22.8	mm	0.9	inches
T = 16.5	mm	0.65	inches
U = 33.1	mm	1.3	inches

Exhaust cam

S = 22.8	mm	0.9	inches
T = 16.5	mm	0.65	inches
U = 33.1	mm	1.3	inches

Make Toyota Model UP 15 F.I.A. Rec. Rec. No

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

CAPACITIES AND DIMENSIONS

1. Wheelbase	2000	mm	78.7	inches			
2. Front track	1203	mm	47.4	inches *			
3. Rear track	1160	mm	45.7	inches *			
4. Overall length of the car	358			cm			inches
5. Overall width of the car	146.5			cm			inches
6. Overall height of the car	117.5			cm			inches
7. Capacity of fuel tank (reserve included)					30	l trs	
	7.9	Gallon US				Gallon Imp.	
8. Seating capacity	2						
9. Weight, total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools :							
	565	kg	1248	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 easily recognizable points at front and rear at wihch 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 Toyota Model UP 15 F.I.A. Rec. No

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis / body construruction : [redacted] / unitary construction
21. Unitary construction, material (s) Steel & Al Plate

Separate construction

22. Material (s) of chassis
23. Material (s) of coachwork
24. Number of doors 2 Material (s) Steel Plate
25. Material (s) of bonnet Al-Plate
26. Material (s) of boot lid Al-Plate
27. Material (s) of rear-window Plastic
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 -

ACCESSORIES AND UPHOLSTERY

38. Interior heating : [redacted] - no
39. Air-conditioning : [redacted] - no
40. Ventilation : yes - [redacted]
41. Front seats, type of seat and upholstery Bucket, Vinyl Leather
42. Weight of front seat (s), complete with supports and rails, out of the car :

5.8 (per piece) kg lbs

43. Rear seats, type of seat and upholstery -
44. Front bumper, material (s) Al-Plate & Rubber Weight 0.5 (per piece) kg inches
45. Rear bumper, material (s) Al-Plate & Rubber Weigh 0.55 (per piece) kg inches

WHEELS

50. Type Pressed Disc Wheel
51. Weight (per wheel, without tyre) 4.5 (4J -12) / 5.0 (4½J-12) / 5.8 (4½J-13) kg lbs
52. Method of attachment Four Hub Bolts and Nuts
53. Rim diameter 304, 329 mm 12, 13 inches
54. Rim width 102, 114 mm 4, 4½ inches

STEERING

60. Type Worm & Sector Roller
61. Servo-assistance : [redacted] - no
62. Number of turns of steering wheel from lock to lock 2.5
63. In case of servo-assistance

Make Toyota Model UP 15 F.I.A. Rec. No

SUSPENSION

70. Front suspension (photogr. D), type: Independent by Double Wishbones
71. Type of spring: Torsion Bar
72. Stabiliser (if fitted): Torsion Bar
73. Number of shockabsorbers: 2 74. Type: Hydraulic Telescopic Double Action
78. Rear suspension (photogr. E), type: Hotchkiss Drive
79. Type of spring: Semi-elliptic Leaf Spring
80. Stabiliser (if fitted): -
81. Number of shockabsorbers: 2 82. Type: Hydraulic Telescopic Double Action

BRAKES (photographs F and G)

90. Method of operation: 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)	mm 3/4	in.	mm 11/16	in.
Drum brakes				
95. Inside diameter	200 mm	in.	200 mm	in.
96. Length of brake linings	192 mm	in.	192 mm	in.
97. Width of brake linings	30 mm	in.	30 mm	in.
98. Number of shoes per brake	2		2	
99. Total area per brake	115 x 10^2 mm²	sq. in.	115x 10^2 mm²	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	mm²	sq. in.	mm²	sq. in.

Make Toyota Model UP 15 F. I. A. Rec. No.

ENGINE (photographs J and K)

130. Cycle 4 131. Number of cylinders 2

132. Cylinder arrangement Horizontally Opposed

133. Bore 83 mm 3.3 in. 134. Stroke 73 mm 2.9 in.

135. Capacity per cylinder 395 cm^3 24.1 cu. in.

136. Total cylinder-capacity 790 cm^3 48.2 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 2

140. Number of inlet ports 2 141. Number of exhaust ports 2

142. Compression ratio 9.0

143. Volume of one combustion chamber 44 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

36 mm inches

147. Crankshaft : [redacted] / stamped 148. Type of crankshaft : integral [redacted]

149. Number of crankshaft main bearings 2

150. Material of bearing cap -

151. System of lubrication : [redacted] / oil in sump

152. Capacity, lubricant 2.8 ltrs pts quarts US

153. Oil cooler : [redacted] / no 154. Method of engine cooling Air Cooling by Sirocco Fa

155. Capacity of cooling system - ltrs pints quarts US

156. Cooling (if fitted), dia. 22.2 cm inches

157. Number of blades of cooling fan 30

Bearings

158. Crankshaft main, type Roller Bearing(FR), Ball Bearing(RR) Dia. (Outside) 90(FR) 100(RR) mm in.

159. Connecting rod big end, type Plain Bearing, Two Halves Dia. (Inside) 50 ϕ mm in.

Weights

160. Flywheel (clean) 10 kg lbs

161. Flywheel with clutch (all turning parts) 11 kg lbs

162. Crankshaft 5.5 kg lbs 163. Connecting rod 0.55 kg lbs

164. Piston with rings and pin 0.48 kg lbs

Make Toyota Model UP 15 F.I.A. Rec. No

FOUR STROKE ENGINES

170. Number of camshafts 1 171. Location Crankcase

172. Type of camshaft drive Gear

173. Type of valve operation Push Rod & Rocker

INLET (see page 4) *

180. Material(s) of inlet manifold Steel Pipe

181. Diameter of valves 38 mm 1.5 inches

182. Max. valve lift 6.3 ± 0.3 mm 0.25 ± 0.01 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 mm inches

187. Valves open at (With tolerance for tappet clearance indicated) B.T.D.C. 42° ± 3°

188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C. 78° ± 3°

189. Air filter, type Dry

EXHAUST (see page 4)

195. Material (s) of exhaust manifold Steel Pipe

196. Diameter of valves 32 mm 1.26 inches

197. Max. valve lift 6.3 ± 0.3 mm 0.25 ± 0.01 198. 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 mm inches

202. Valves open at (with tolerance for tappet clearance indicated) B.B.D.C. 22° ± 3°

203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C. 42° ± 3°

CARBURETION (photograph N)

210. Number of carburettors fitted 2 211. Type Down Draught

212. Make Aisan 213. Model 21100 - 11010

214. Number of mixture passages per caburettor 1

215. Flange hold diameter of exit port(s) of carburetteor 32 mm in.

216. Minimum diameter of venturi 28 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 injecters

225. Minimum diameter of inlet pipe mm inches

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

Make Toyota Model UP 15 F. I. A. Rec. No.

ENGINE ACCESSORIES

230. Fuel pump : mechanical [redacted]
231. No fitted 1
232. Type of ignition system Make and Break Ignitor
233. No of distributors 1
234. No of ignition coils 1
235. No of spark plugs per cylinder 1
236. Generator, type: dynamo [redacted] r-number fitted 1
237. Method of drive V Belt
238. Voltage of generator 12 volts
239. Battery, number 1
240. Location Engine Compartment
241. Voltage of battery 12 volts

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

250. Max. engine output 45 PS (type of horsepower: JIS) at 5400 rpm
251. Maximum rpm 6000 output at that figure 42 PS
252. Maximum torque 6.8 kg-m at 3800 rpm
253. Maximum speed of the car 155 km / hour miles / hour

Make Toyota Model UP 15 F.I.A. Rec. No

DRIVE TRAIN

CLUTCH

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

262. Dia. of clutch plates 163 cm inches

263. Dia. of linings, inside 110 cm in. outside 160 cm in.

264. Method of operating clutch Flexible Cable

GEAR BOX (photograph H)

270. ~~Method of operation~~ Manual type, make Toyota

271. No. of gear-box ratios forward 4 272. Synchronized forward ratios Except 1st

273. Location of gear-shift Floor

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/~~automatic~~ Ratio	~~Alternative~~ manual/~~automatic~~ No. teeth	Ratio	No. teeth
1	4.444	40/9			4.444	40/9		
2	2.400	36/15			2.642	37/14		
3	1.550	31/20			1.684	32/19		
4	1.125	27/24			1.125	27/24		
5								
6								
reverse	5.812	$\frac{17}{9}$ $\frac{40}{13}$			5.812	$\frac{17}{9}$ $\frac{40}{13}$		

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 (if fitted)

293. Final drive ratio 3.300, 3.556

Number of teeth 33/10, 32/9

Make Toyota Model UP 15 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, 186, 187, 188, 189, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 236, 250, 251, 252, 253, 255 page 4. and photographs I, M and N,

During the scrutineering of 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.

Make Toyota Model UP 15 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

Chairman

of Technical Subcommission

Osamu Hirao

JAPAN AUTOMOBILE FEDERATION F.I.A. Homol. No 533 A/U

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Amendment to Form of Recognition
in accordance with the International
Sporting Code.

Make Toyota Motor Co., Ltd. Model UP 15

Modification's application starts with serial No. chassis UP 15 - 10001
engine 2U - 10001

Application of this amendment started the April 1, 1966

Commercial denomination after application of modifications

The modifications are to be considered as: Variant / ~~xxxxxxxxxxxxxxxxxxxxxxxx~~

Date amendment is valid from 1st July '66 List 14/6

Description of amendment

Another Type of Wheel

50. Type: Solid Disc Wheel of Light Alloy

51. Weight(per wheel, without tyre): 3.8 kg

52. Method of attachment: Four Hub Bolts and Nuts

53. Rim diameter: 329 mm 13 inches

54. Rim width: 114 mm 4½inches

Stamp and signature of
National Sporting Authority

JAPAN AUTOMOBILE FEDERATION
Chairman
of Technical Sub-commission

Osamu Hirao

社団法人 日本自動車連盟
東京都港区芝公園第三号地一番
機械振興会館内

Stamp and signature of F.I.A.

JAPAN AUTOMOBILE FEDERATION F. I. A. Homol. No. 533 B/V

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Amendment to Form of Recognition
in accordance with the International
Sporting Code.

Make Toyota **Model** UP 15 Publica Sports 800

Modification's application starts with serial No. chassis UP 15 - 10001
engine 2U - 10001

Application of this amendment started the January 1, 1967

Commercial denomination after application of modifications

F.I.A. Recognition No. 533

The modifications are to be considered as: Variant / ~~xxxxxxxxxxxxxxxxxxxxxxxx~~

Date amendment is valid from 1/7/67 List 16/4

Description of amendment

Optional Fuel Tank

7. Capacity of Fuel Tank (Reserve included) 70 ltrs.

18.5 Gallon US Gallon Imp.

Stamp and signature of
National Sporting Authority

JAPAN AUTOMOBILE FEDERATION

難波靖治

Yasuharu Kanba

東京都港区芝公園第三号地一番
機械振興会館内
社団法人 日本自動車連盟

Stamp and signature of F. I. A.