



# JAPAN AUTOMOBILE FEDERATION

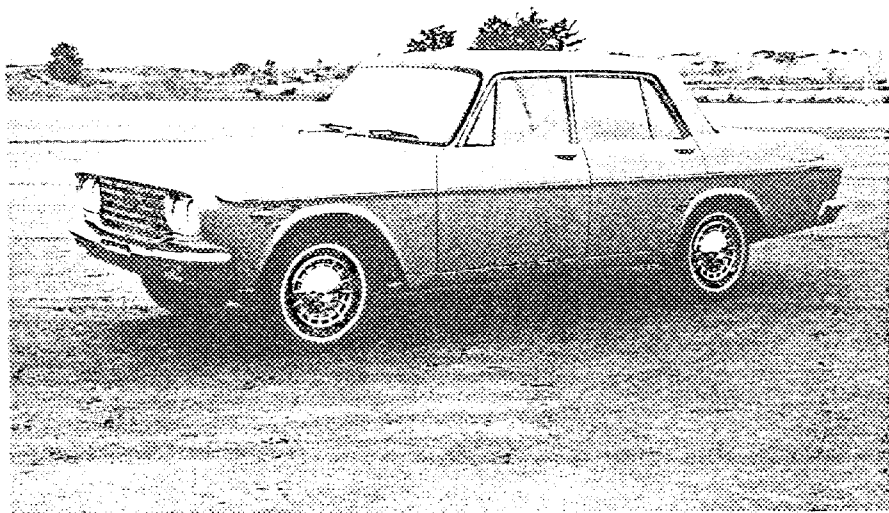
F.I.A. Recognition No. 1721  
Group 2 - February 1966

## FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer Toyota Motor Co., Ltd. Cylinder-capacity 1988 cm<sup>3</sup> 121 inches  
 Model MS 41  
 chassis MS 41 - 10001 Manufacturer Toyota Motor Co., Ltd.  
 engine M - 10001 Manufacturer Toyota Motor Co., Ltd.  
 Recognition is valid from 1st February 1966 List 14/2  
 The manufacturing of the model described in this recognition form was started on August 19 65 and the minimum production of 1000 identical cars, in accordance with the specifications of this form was reached on Nov. 1965

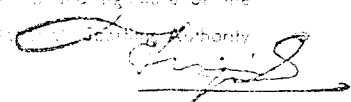
Photograph A, 3/4 view of car from front




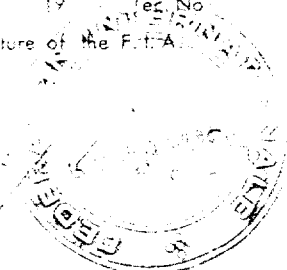
東京都港区芝公園第三号地一番五  
 機械振興会館内  
 法人 日本自動車連盟

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

Amendments				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  
 Competent Authority  
  
 Director General  
 Ministry of Transport



Stamp and signature of the F.I.A.  
  


Make

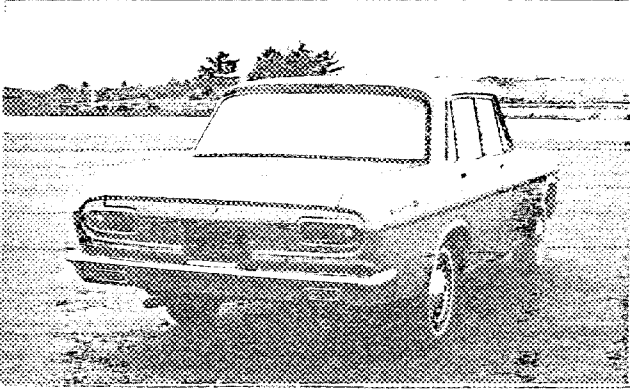
Toyota

Photograph

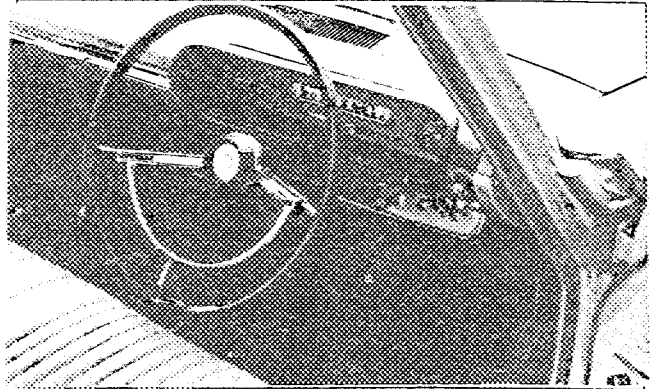
Model MS 41

F. I. A. Rec. No

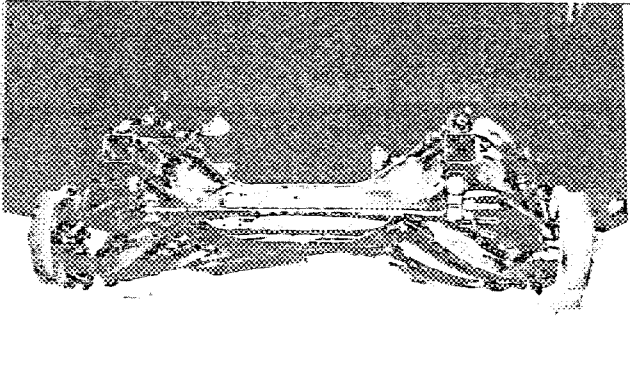
B 3/4 view of car from rear



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



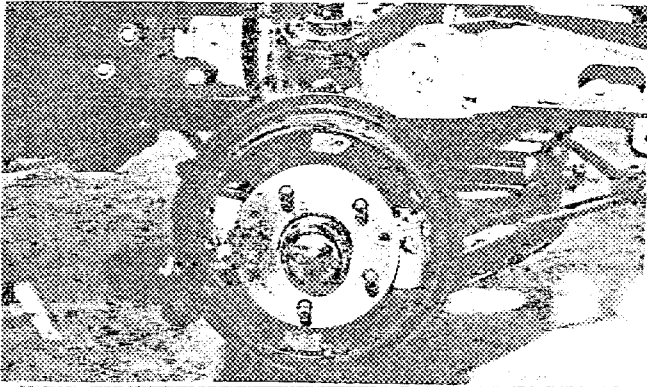
D front axle complete, removed from car. Without wheels.



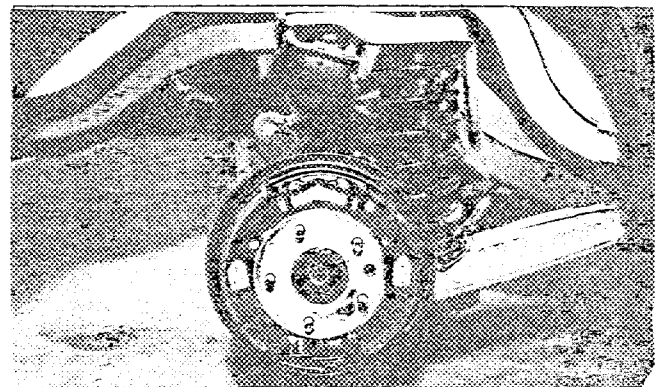
E Rear axle complete without wheels, removed from car.



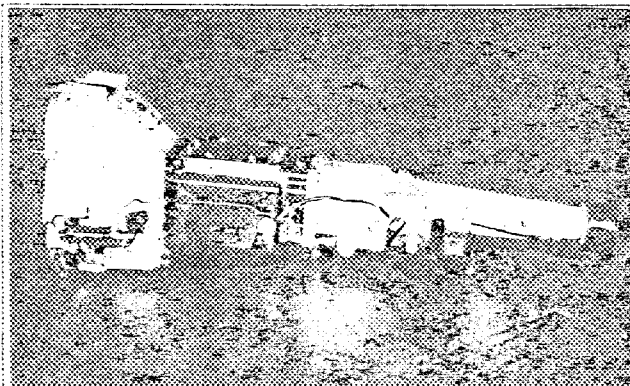
F front brake, drum removed



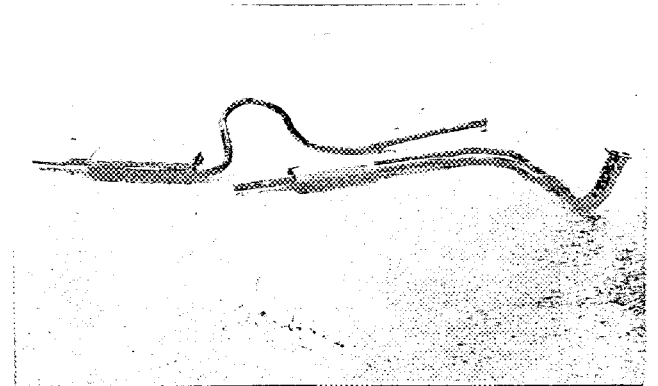
G rear brake, drum removed



H gear-box, view from side



I silencer + exhaust pipes after exhaust manifold.



make

Toyota

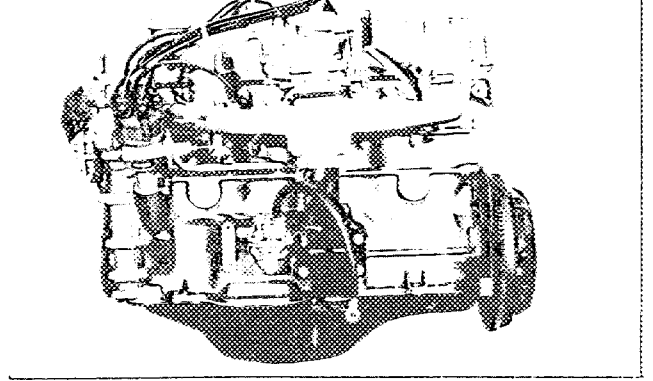
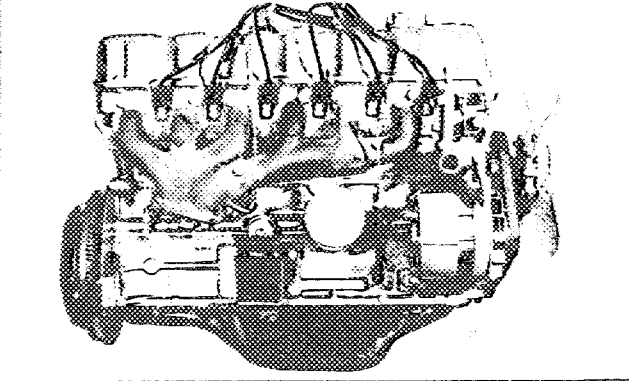
Photograph

Model MS 41

F.I.A. Rec. No

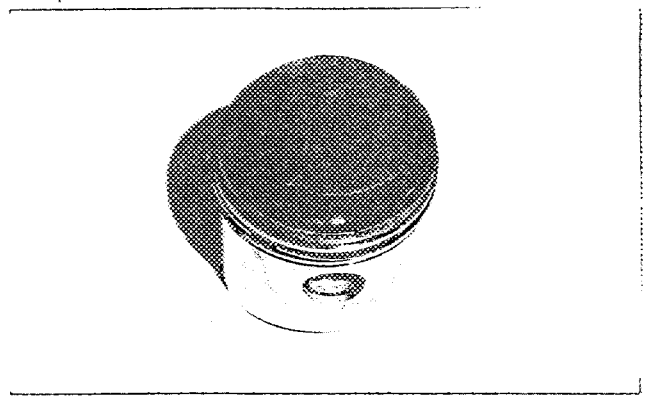
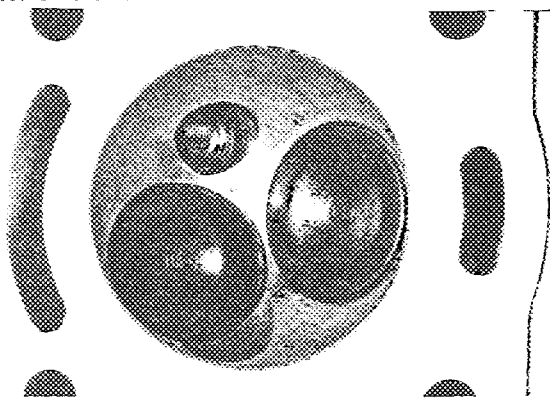
engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box.

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



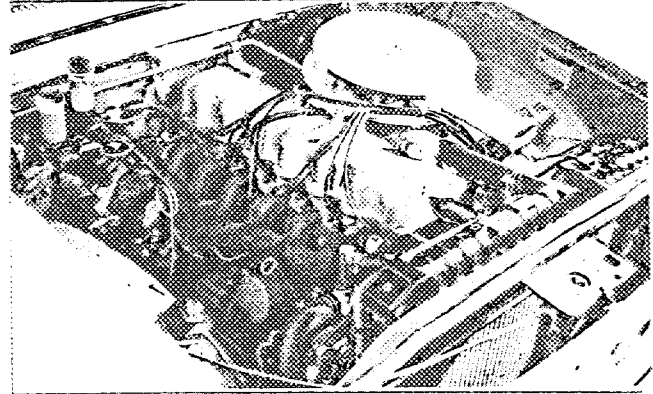
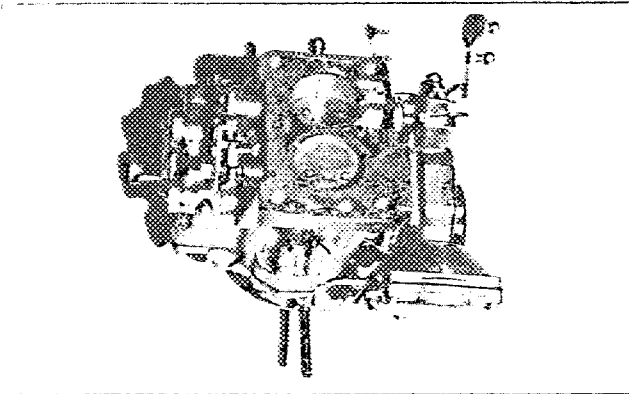
L combustion chamber

M piston crown



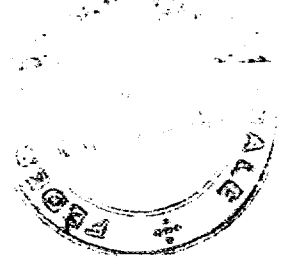
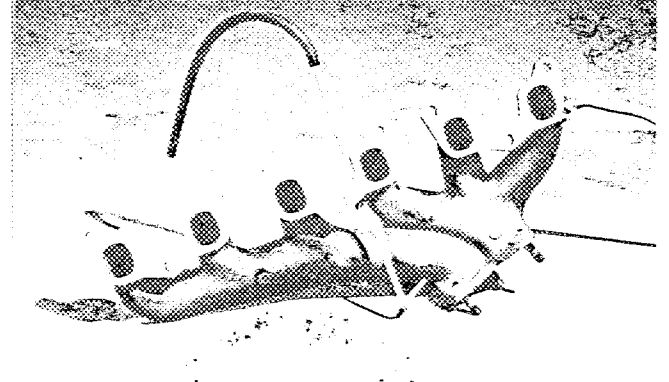
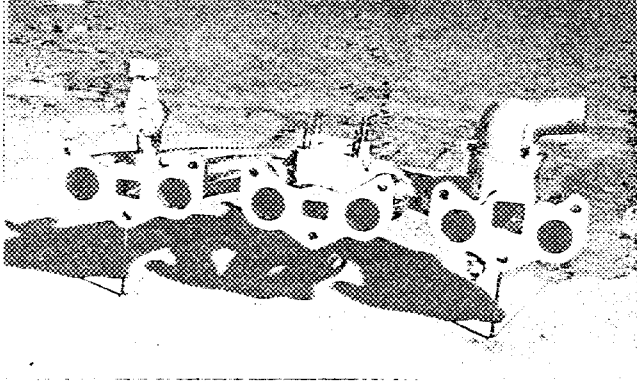
N distributor (view from side of manifold)

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



P inlet manifold

Q exhaust manifold



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

Relative true position of **C** holes is 0.4 DIA.

General Tolerance of casting is  $\pm 1$ .

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

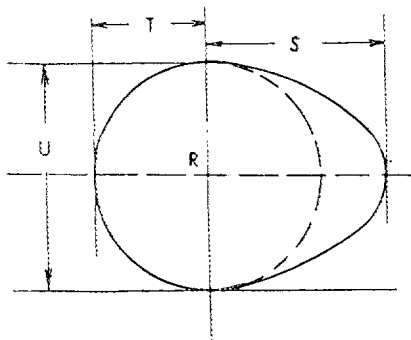
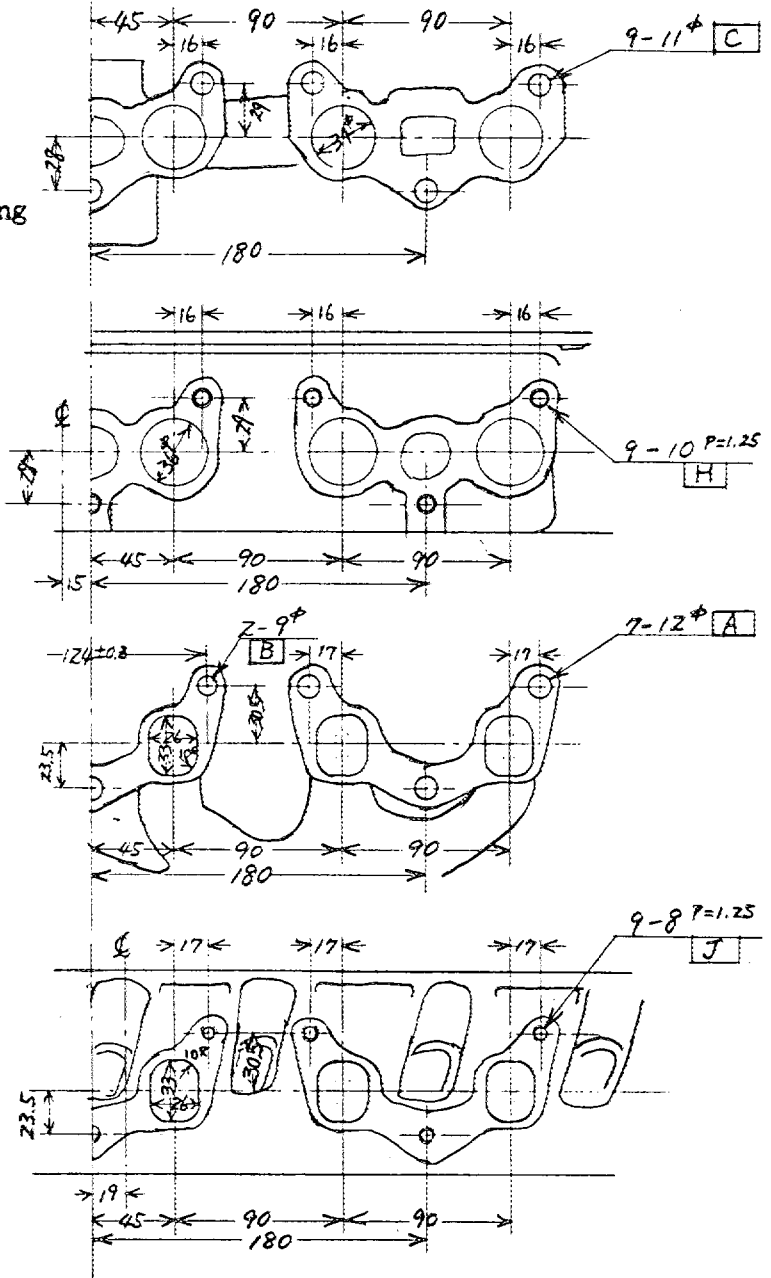
Relative true position of **H** holes is 0.5 DIA.

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

True position of **A** holes against **B** holes is 0.4 DIA.

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

Relative true position of **J** holes is 0.5 DIA.



R=centre of camshaft.

Inlet cam

S =	23.7	mm	0.934	inches
T =	15.7	mm	0.619	inches
U =	31.4	mm	1.24	inches

Exhaust cam

S =	22.8	mm	0.898	inches
T =	15.6	mm	0.615	inches
U =	31.3	mm	1.24	inches



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

**CAPACITIES AND DIMENSIONS**

1. <u>Wheelbase</u>	2690	mm	106	inches
2. <u>Front track</u>	1360	mm	53.5	inches *
3. <u>Rear track</u>	1380	mm	54.4	inches *
4. Overall length of the car	463.5	cm		inches
5. Overall width of the car	169.5	cm		inches
6. Overall height of the car	146	cm		inches
7. <u>Capacity of fuel tank</u> (reserve included)			50	ltrs
	13.2	Gallon US		Gallon Imp.
8. Seating capacity	6			
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools :				
	1240	kg	2740	lbs
				cwt

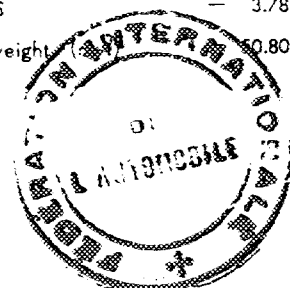
\* ) Differences in track caused by the use of other wheels with different rim widths must be stated when recognition is requested for the wheels concerned.

Specify ground clearance in relation to the track and give drawing of two easily recognizable points at front and rear at 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	— 16.387 cm <sup>3</sup>	1 gallon US	— 3.785 ltrs
1 pound/livre (lb)	— 453.593 gr.	1 hundred weight	— 90.7185 kg



Make Toyota

Model MS 41

F. I. A. Rec. No

**CHASSIS AND COACHWORK** (Photographs A, B and C)

- 20. Chassis/body construction : separate / ~~unitary construction~~
- 21. Unitary construction, material (s)  
Separate construction
- 22. Material (s) of chassis Steel
- 23. Material (s) of coachwork Steel Plate
- 24. Number of doors 4 Material (s) Steel Plate
- 25. Material (s) of bonnet Steel Plate
- 26. Material (s) of boot lid Steel Plate
- 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 - ~~no~~
- 41. Front seats, type of seat and upholstery Bench, Fabric
- 42. Weight of front seat (s), complete with supports and rails, out of the car :  
32 kg lbs
- 43. Rear seats, type of seat and upholstery Bench, Fabric
- 44. Front bumper, material (s) Steel Plate Weight 8.7 kg inches
- 45. Rear bumper, material (s) Steel Plate Weight 8.7 kg inches

**WHEELS**

- 50. Type Pressed Disc Wheel
- 51. Weight (per wheel, without tyre) 6.7 (5J-13), 7.6 (5J-14) lbs
- 52. Method of attachment 5 Hub Bolts and Nuts
- 53. Rim diameter 330, 356 mm 13, 14 inches
- 54. Rim width 127 mm 5 inches

**STEERING**

- 60. Type Worm and Sector Roller, Recirculating Ball (for Export)
- 61. Servo-assistance : ~~yes~~ - no
- 62. Number of turns of steering wheel from lock to lock 4-1/6
- 63. In case of servo-assistance -



Make Toyota

Model MS 41

F. I. A. Rec. No

**SUSPENSION**

- 70. Front suspension (photogr. D), type Independent by Double Wishbones
- 71. Type of spring Coil Spring
- 72. Stabiliser (if fitted) Torsion Bar
- 73. Number of shockabsorbers 2
- 74. Type Hydraulic Telescopic Double Action
- 78. Rear suspension (photogr. E), type Rigid Axle and Four Links
- 79. Type of spring Coil 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 1-1/8 in.		mm 3/4 in.	
<b>Drum brakes</b>				
95. Inside diameter	230	mm in.	230	mm in.
96. Length of brake linings	221	mm in.	191 221	mm in.
97. Width of brake linings	50	mm in.	50	mm in.
98. Number of shoes per brake	2		2	
99. Total area per brake	221 x 10 <sup>2</sup> mm <sup>2</sup> sq. in.		206x10 <sup>2</sup> 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.



**ENGINE** (photographs J and K)

130. Cycle	4	131. Number of cylinders	6
132. Cylinder arrangement	In Line		
133. Bore	75 mm	134. Stroke	75 mm
	2.95 in.		2.95 in.
135. Capacity per cylinder	331		cm <sup>3</sup> 20.2
			cu. in.
136. Total cylinder-capacity	1988		cm <sup>3</sup> 121
			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	6	141. Number of exhaust ports	6
142. Compression ratio	8.8		
143. Volume of one combustion chamber		42	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	50 mm		inches
147. Crankshaft : <del>cast</del> / stamped		148. Type of crankshaft : integral / <del>split</del>	
149. Number of crankshaft main bearings	7		
150. Material of bearing cap	Cast Iron		
151. System of lubrication : <del>oil in sump</del> / oil in sump			
152. Capacity, lubricant	4.4 ltrs		quarts US
153. Oil cooler : <del>yes</del> / no		154. Method of engine cooling	Forced Water Circulation
155. Capacity of cooling system	8.9 ltrs		quarts US
156. Cooling (if fitted), dia.	36 cm		inches
157. Number of blades of cooling fan	4		

**Bearings**

158. Crankshaft main, type	Plain Bearing, Two Halves	Dia.	60	mm	in.
159. Connecting rod big end, type	Plain Bearing, Two Halves	Dia.	52	mm	in.

**Weights**

160. Flywheel (clean)	8	kg	lbs
161. Flywheel with clutch (all turning parts)	19	kg	lbs
162. Crankshaft	20.0	kg	lbs
163. Connecting rod	0.65	kg	lbs
164. Piston with rings and pin	0.48	kg	lbs





**FOUR STROKE ENGINES**

170. Number of camshafts 1 171 Location Cylinder Head  
 172. Type of camshaft drive Chain  
 173. Type of valve operation Rocker

**INLET** (see page 4) \*

180. Material(s) of inlet manifold Al-Alloy  
 181. Diameter of valves 40 mm 1.58 inches  
 182. Max. valve lift 9 mm 0.35 in. 183. Number of valve springs 2  
 184. Type of spring Coil Spring 185. Numbr of valves per cylinder 1  
 186. Tappet clearance for checking timing (cold) 0.10 mm inches  
 187. Valves open at (With tolerance for tappet clearance indicated) B.T.D.C. 10° ± 2°  
 188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C. 54° ± 2°  
 189. Air filter, type Dry

**EXHAUST** (see page 4)

195. Material (s) of exhaust manifold Cast Iron  
 196. Diameter of valves 34 mm 1.34 inches  
 197. Max. valve lift 8 mm 0.32 in. 198. Number of valve springs 2  
 199. Type of spring Coil Spring 200. Number of valves per cylinder 1  
 201. Tappet clearance for checking timing (cold) 0.18 mm inches  
 202. Valves open at (with tolerance for tappet clearance indicated) B.B.D.C. 50° ± 2°  
 203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C. 14° ± 2°

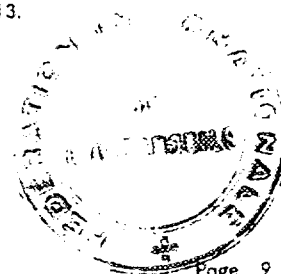
**CARBURETION** (photograph N)

210. Number of carburetors fitted 1 211. Type Down Draught, 2 Barrel  
 212. Make Aisan 213. Model 21100 - 41010  
 214. Number of mixture passages per carburetor 2  
 215. Flange hold diameter of exit port(s) of carburetor 35 & 35 mm in.  
 216. Minimum diameter of venturi / ~~minimum diameter of venturi~~ minimum height 24 & 29 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 injectors  
 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 MS 41

F.I.A. Rec. No.

**ENGINE ACCESSORIES**

230. Fuel pump : mechanical <del>mechanical</del>	231. No fitted	1	
232. Type of ignition system Make and Break Ignition	233. No of distributors	1	
234. No of ignition coils	1	235. No of spark plugs per cylinder	1
236. Generator, type: <del>generator</del> /alternator-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	105 PS (type of horsepower: JIS )	at	5200	rpm
251. Maximum rpm	6000	output at that figure	99 PS	
252. Maximum torque	16 kg-m	at 3600 rpm		
253. Maximum speed of the car	155	km/hour		miles / hour



Make

Toyota

Model

MS 41

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 **22.7** cm inches  
 263. Dia. of linings, inside **16** cm in. outside **22.4** cm in.  
 264. Method of operating clutch **Hydraulic**

**GEAR BOX** (photograph H)

270. ~~Method of operation~~ **Manual Type, make: Toyota, Remote, Direct**  
 271. No. of gear-box ratios forward **3 and 4** 272. Synchronized forward ratios **All**  
 273. Location of gear-shift **Steering Column or Floor**  
 274. Automatic, make **Toyota** type **Hydraulic Operating**  
 275. No. of forward ratios **2** 276. Location of gear-shift **Steering Column or Floor**

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	3.059	$\frac{30}{19} \cdot \frac{31}{16}$	1.82	$\frac{23+28}{28}$	3.673	$\frac{31}{18} \cdot \frac{32}{15}$		
2	1.645	$\frac{30}{19} \cdot \frac{25}{24}$	1		2.114	$\frac{31}{18} \cdot \frac{27}{22}$		
3	1.00				1.403	$\frac{31}{18} \cdot \frac{22}{27}$		
4					1.			
5								
6								
reverse	4.079	$\frac{30}{19} \cdot \frac{31}{12}$	1.82	$\frac{23+28}{28}$	4.183	$\frac{31}{18} \cdot \frac{34}{14}$		

278. Overdrive, type **Planetary Gear**  
 279. Forward gears on which overdrive can be selected **2nd & 3rd**  
 280. Overdrive ratio **0.700**

**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 **4.875 , 4.375**  
 Number of teeth **39/8 , 35/8**



Make

Toyota

Model

MS 41

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 equipment affecting preceding information. This to be stated together with reference number.

Brake Drum with Fin



Make

Toyota

Model

MS 41

F. I. A. Rec. No.

TWO STROKE ENGINES

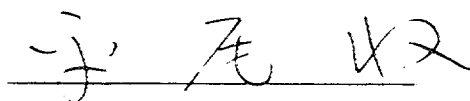
- 300. System of cylinder scavenging
- 301. Type of lubrication
- 302. Inlet ports, length measured around cylinder wall mm inches
- 303. Height inlet port mm in. 304. Area mm<sup>2</sup> sq. in.
- 305. Exhaust ports, length measured around cylinder wall mm inches
- 306. Height exhaust port mm in. 307. 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

Chairman

of Technical Subcommission



Osamu Hirao