



JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. **5358**
Group **I**

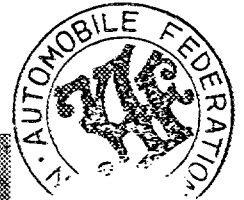
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer	Toyota Motor Co., Ltd.	Cylinder-capacity	1490	cm ³	90.9	cu. in.
Serial No of chassis	RT80 - 000001	Model	Corona 1500, RT80-DK			
engine	2R 100001	Manufacturer	Toyota Motor Co., Ltd.			
Recognition is valid from	1/7/70	Manufacturer	Toyota Motor Co., Ltd.			
		List	20/7			

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

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 :

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.

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

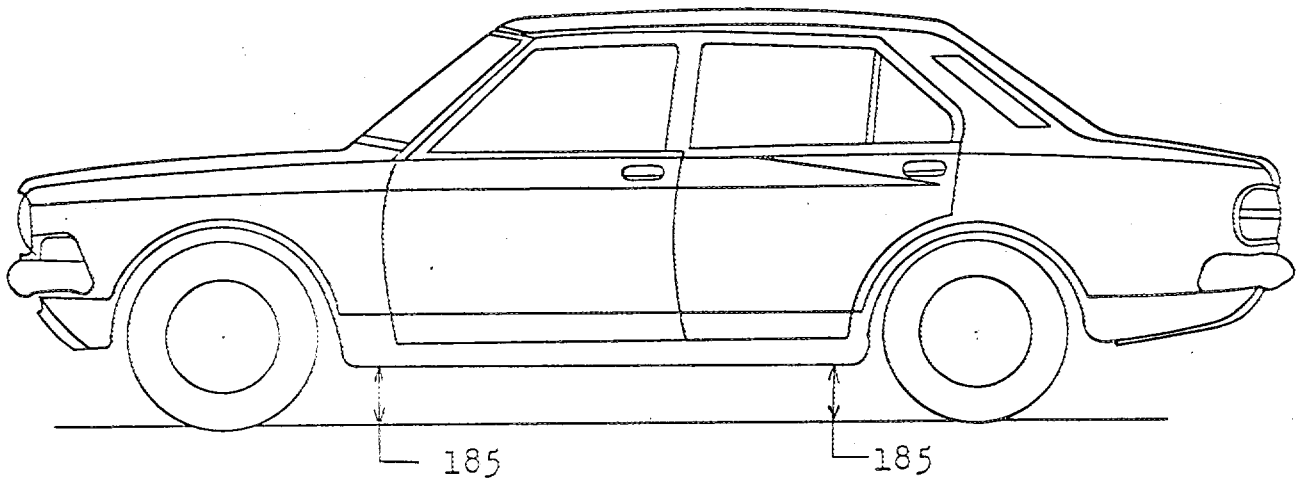
CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2430	mm	95.7	inches
2. <u>Front track</u>	1290	mm	50.8	inches *
3. <u>Rear track</u>	1280	mm	50.4	inches *
4. Overall length of the car		417	cm	inches
5. Overall width of the car		157	cm	inches
6. Overall height of the car		140	cm	inches
7. <u>Capacity of fuel tank</u> (reserve included)			50	ltrs
	13,2	Gallon US		Gallon Imp.
8. Seating capacity	5			
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:				
	925	kg	2020	lbs
	885 kg (国内)		1950 lbs (国内)	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.



Unit : mm

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 RT80-DK

F. I. A. Rec. No

CHASSIS AND COACHWORK (Photographs A, B and C)

- 20. Chassis/body construction : ~~XXXXXX~~ / 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 4 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

ACCESSORIES AND UPHOLSTERY

- 38. Interior heating : ~~XXXX~~ - no 39. Air-conditioning : ~~XXXX~~ - no
- 40. Ventilation : yes - ~~XXX~~
- 41. Front seats, type of seats and upholstery Separate, Knit fabric
- 42. Weight of front seat (s), complete with supports and rails, out of the car :
22^{kg} x 2 kg lbs
- 43. Rear seats, type of seats and upholstery Bench, Knit fabric
- 44. Front bumper, material (s) Steel Weight 4.4 kg lbs
- 45. Rear bumper, material (s) Steel Weight 4.0 kg lbs

WHEELS

- 50. Type Pressed steel
- 51. Weight (per wheel, without tyre) 5.3 kg lbs
- 52. Method of attachment 4 Nuts
- 53. Rim diameter 329.4 mm 13 inches
- 54. Rim width 102 mm 4 inches

STEERING

- 60. Type Recirculating ball
- 61. Servo-assistance : ~~XXXX~~ - no
- 62. Number of turns of steering wheel from lock to lock 3 $\frac{1}{2}$
- 63. In case of servo-assistance



SUSPENSION

70. Front suspension (photogr. D), type	Independent,	wishbone
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	
79. Type of spring	Leaf	
80. Stabiliser (if fitted)		
81. Number of shockabsorbers 2	82. Type Hydraulic telescopic	

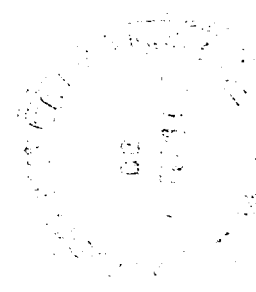
BRAKES (photographs F and G)

90. System	Hydraulic
91. Servo-assistance (if fitted), type	
92. Number of hydraulic master cylinders	1

	FRONT			REAR		
93. Number of cylinders per wheel	1			1		
94. Bore of wheel cylinder (s)	22.2	mm	in.	15.8	mm	in.
Drum brakes						
95. Inside diameter	228	mm	in.	228	mm	in.
96. Length of brake linings	220 250	mm	in.	220 250	mm	in.
97. Width of brake linings	40	mm	in.	40	mm	in.
98. Number of shoes per brake	2			2		
99. Total area per brake	188x10 ²	mm ²	sq. in.	188x10 ²	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.



ENGINE (photographs J and K)

130. Cycle	4	131. Number of cylinders	4		
132. Cylinder arrangement	In line				
133. Bore	78 mm	3.07 in.	134. Stroke	78 mm	3.07 in.
135. Capacity per cylinder		372.5 cm ³		22.7 cu. in.	
136. Total cylinder-capacity		1490 cm ³		90.9 cu. in.	
137. Material (s) of cylinder block		Cast iron			
138. Material (s) of sleeves (if fitted)					
139. Cylinder-head, material (s)		Cast iron	Number fitted	1	
140. Number of inlet ports	4	141. Number of exhaust ports	4		
142. Compression ratio	8.3				
143. Volume of one combustion chamber		44 cm ³		cu. in.	
144. Piston, material	Aluminum - Alloy		145. Number of rings	3	
146. Distance from gudgeon pin centre line to highest point of piston crown					
	39 mm			inches	
147. Crankshaft : stamped / stamped		148. Type of crankshaft : integral / xxxxxx			
149. Number of crankshaft main bearings	3				
150. Material of bearing cap	Cast iron				
151. System of lubrication : xxxxxx / oil in sump					
152. Capacity, lubricant	4.3 ltrs			pts quarts US	
153. Oil cooler : xxx / no		154. Method of engine cooling	Water		
155. Capacity of cooling system	7 ltrs			pints 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.	58 mm	in.
159. Connecting rod big end,	Plain	Dia.	50 mm	in.

Weights

160. Flywheel (clean)	12 kg	lbs	
161. Flywheel with clutch (all turning parts)		16 kg	lbs
162. Crankshaft	15 kg	163. Connecting rod	0.4 kg lbs
164. Piston with rings and pin	0.42 kg		lbs



FOUR STROKE ENGINES

- 170. Number of camshafts 1
- 171. Location Cylinder block
- 172. Type of camshaft drive Gear
- 173. Type of valve operation Push rod & rocker

INLET (see page 8) *

- 180. Material(s) of inlet manifold Aluminum - Alloy
- 181. Diameter of valves 39 mm 1.54 inches
- 182. Max. valve lift 9.3 mm 0.37 in.
- 183. Number of valve springs 2
- 184. Type of spring Coil
- 185. Number of valves per cylinder 1
- 186. Tappet clearance for checking timing (cold) 0.15 mm inches
- 187. Valves open at (with tolerance for tappet clearance indicated) B.T.D.C. $16^{\circ} \pm 2.5^{\circ}$
- 188. Valves close at (with tolerance for tappet clearance indicated) A.B.D.C. $54^{\circ} \pm 2.5^{\circ}$
- 189. Air filter, type Dry

EXHAUST (see page 8)

- 195. Material (s) of exhaust manifold Cast iron
- 196. Diameter of valves 33 mm 1.30 inches
- 197. Max. valve lift 9.5 mm 0.38 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) 0.30 mm inches
- 202. Valves open at (with tolerance for tappet clearance indicated) B.B.D.C. $54^{\circ} \pm 2.5^{\circ}$
- 203. Valves close at (with tolerance for tappet clearance indicated) A.T.D.C. $16^{\circ} \pm 2.5^{\circ}$

CARBURETION (photograph N)

- 210. Number of carburetors fitted 1
- 211. Type Down draught
- 212. Make Aisan
- 213. Model 2R
- 214. Number of mixture passages per carburetor 2
- 215. Flange hole diameter of exit port(s) of carburettor 30 & 32 mm in.
- 216. Minimum dimensions of mixture passage(s) ~~with piston or max. height example 50~~
23 & 27 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.



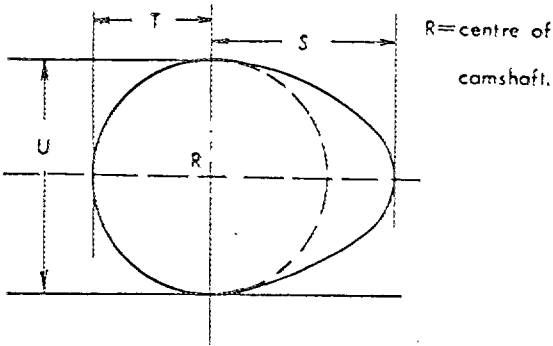
ENGINE ACCESSORIES

230. Fuel pump : mechanical and / electric	231. No. fitted	1
232. Type of ignition system Make & break	233. No. of distributors	1
234. No. of ignition coils	1	
236. Generator, type: dynamo /alternator-number fitted	1	
238. Voltage of generator	12 volts	
240. Location	Engine room	
241. Voltage of battery	12 volts	
	235. No. of spark plugs per cylinder	1
	237. Method of drive	V belt
	239. Battery, number	1

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

250. Max. engine output	77 PS (type of horsepower: JIS) at	5200	rpm
251. Maximum rpm	5600	output at that figure	76.6 PS
252. Maximum torque	11.7 kg-m	at 2800 rpm	
253. Maximum speed of the car	145	km/hour	miles / hour

255.

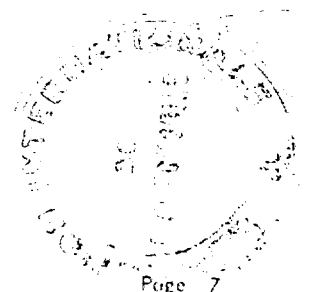


Inlet cam

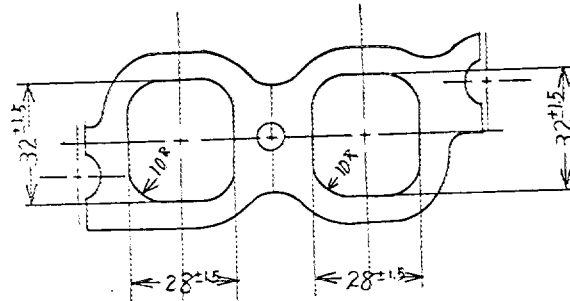
S =	22.4	mm	0.882	inches
T =	16.0	mm	0.630	inches
U =	32.0	mm	1.261	inches

Exhaust cam

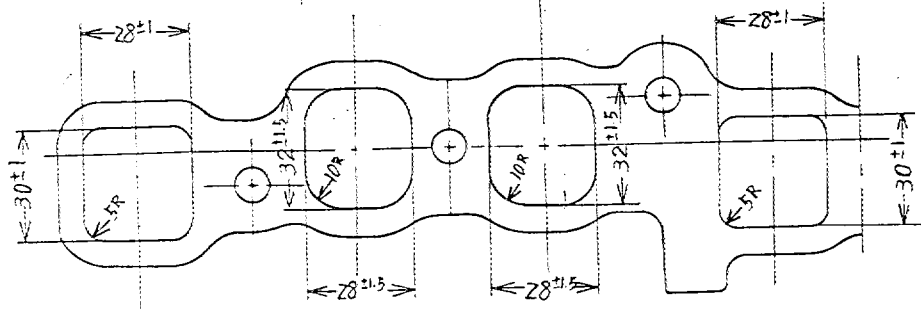
S =	22.4	mm	0.882	inches
T =	15.9	mm	0.626	inches
U =	31.9	mm	1.255	inches



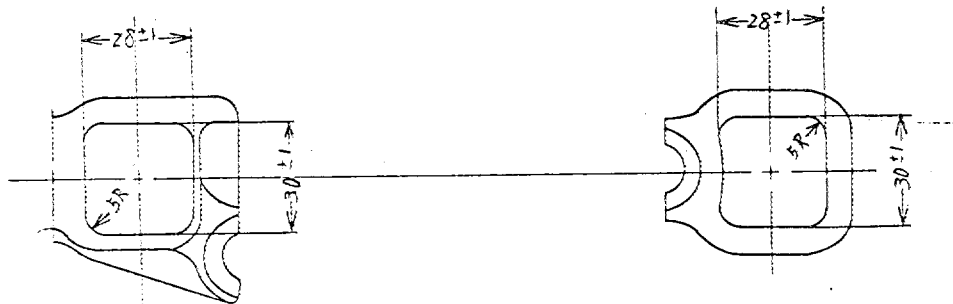
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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 port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.

Unit : mm



Make Toyota

Model RT80-DK

F.I.A. Rec. No.

DRIVE TRAIN

CLUTCH

- 260. Type of clutch Dry single plate
- 261. No. of plates 1
- 262. Dia. of clutch plates 20.5 cm inches
- 263. Dia. of linings, inside 14.0 cm in. outside 20.0 cm in.
- 264. Method of operating clutch Hydraulic

GEAR BOX (photograph H)

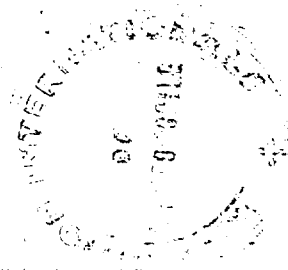
- 270. Manual type, make Toyota Method of operation Mechanical
- 271. No. of gear-box ratios forward 4
- 272. Synchronized forward ratios 1, 2, 3 & 4
- 273. Location of gear-shift Floor
- 274. Automatic, make type
- 275. No. of forward ratios
- 276. Location of gear-shift

277.	Manual		Automatic		Alternative manual/ XXXXXX			
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	3.673	$\frac{31}{18} \times \frac{32}{15}$			3.337	$\frac{31}{18} \times \frac{31}{16}$		
2	2.114	$\frac{31}{18} \times \frac{27}{22}$			1.948	$\frac{31}{18} \times \frac{26}{23}$		
3	1.403	$\frac{31}{18} \times \frac{22}{27}$			1.340	$\frac{31}{18} \times \frac{21}{27}$		
4	1.000				1.000			
5								
6								
reverse	4.183	$\frac{31}{18} \times \frac{22}{14}$			4.183	$\frac{31}{18} \times \frac{34}{14}$		

- 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, 4.375
- Number of teeth 37/9, 35/8



Make Toyota

Model RT80-DK

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

Disc brakes on front and drum brakes on rear	FRONT	REAR
93. Number of cylinders per wheel	1	1
94. Bore of wheel cylinder (s)	50.8 mm	20.6 mm
Drum brakes		
95. Inside diameter		228 mm
96. Length of brake linings		40 mm
97. Width of brake linings		243 mm
98. Number of shoes per brake		2
99. Total area per brake		194 x 102 mm ²
Disc brakes		
100. Outside diameter	184 mm	
101. Thickness of disc	10 mm	
102. Length of brake linings	97 mm	
103. Width of brake linings	46 mm	
104. Number of pads per brake	2	
105. Total area per brake	78 x 10 ² mm ²	

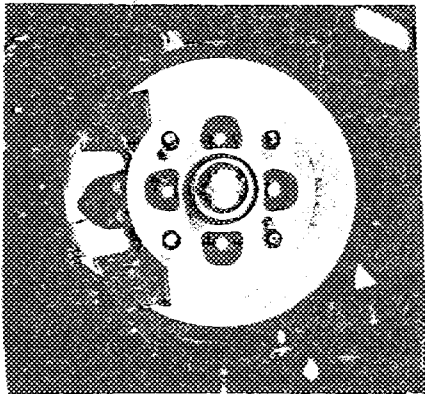


Photo F

Front brake disc with caliper

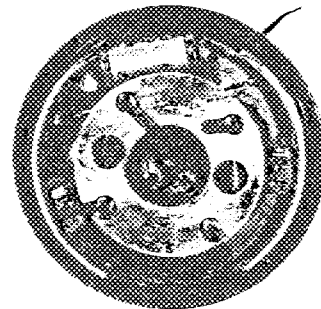
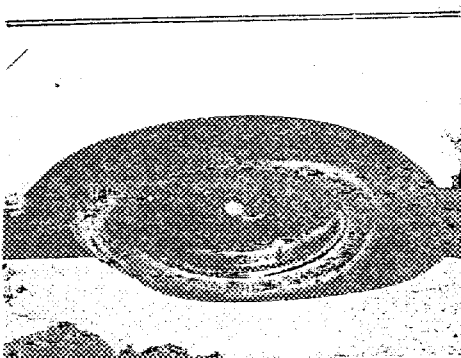


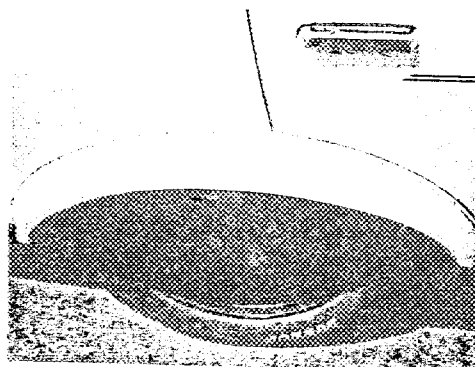
Photo G

Rear brake drum removed

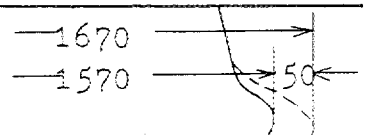
NOT VALID FOR GROUP 1 ONLY
Wing extensions



Front

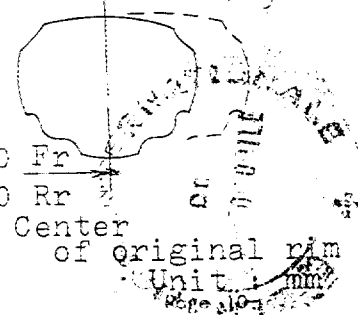


Rear



1290 Fr
1280 Rr

Center of original rim
Unit: mm



Make Toyota

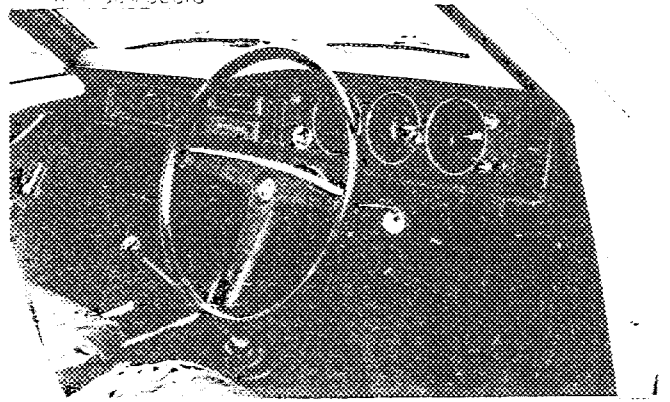
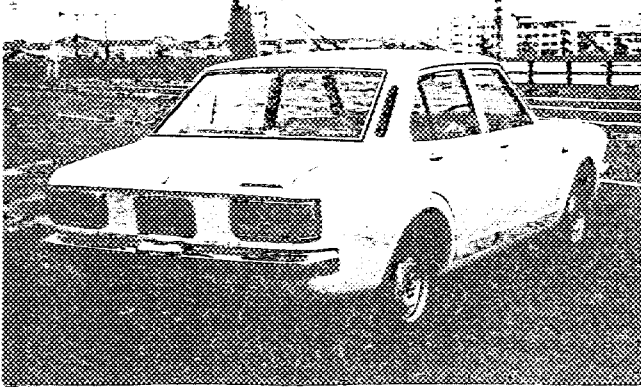
Model FT80-DK

F.I.A. Rec. No.

Photograph

Interior view of car through driver's door (open or removed) with dashboard

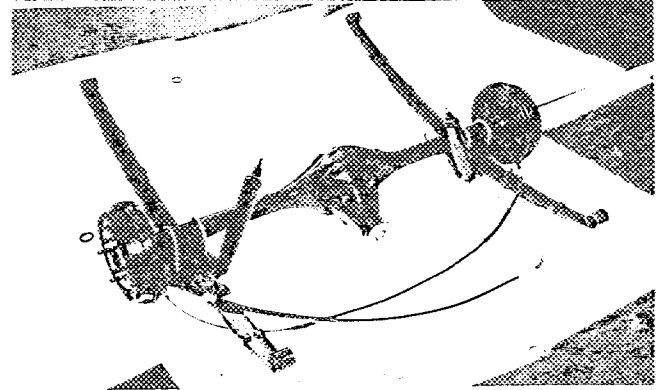
B, 3/4 view of car from rear



D, front axle complete, removed from car, without wheels

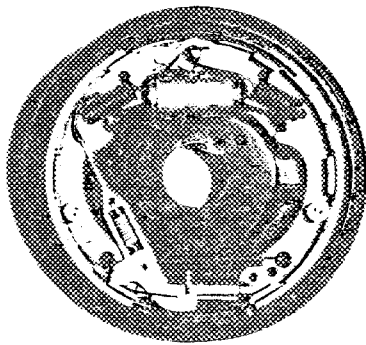


E, front axle complete without wheels, removed from car



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

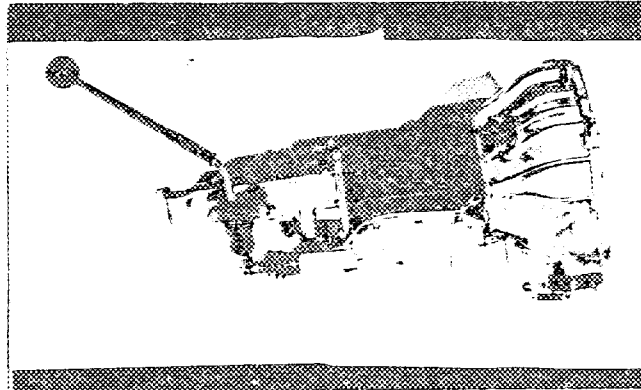
F, front brake, drum removed or disc with caliper(s)



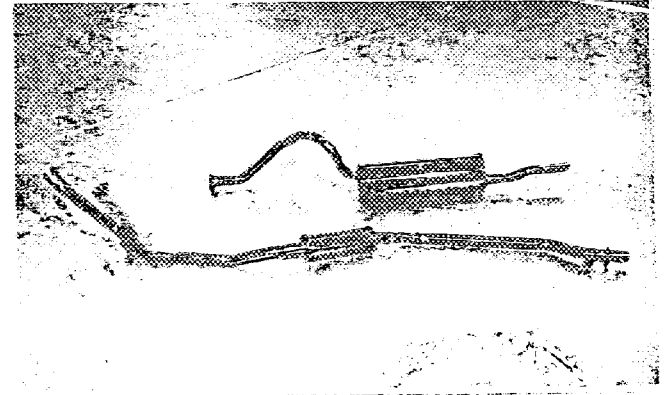
G, rear brake, drum removed or disc with caliper(s)



H, gear-box, view from side



I, side view of exhaust pipes after exhaust manifold



Make Toyota

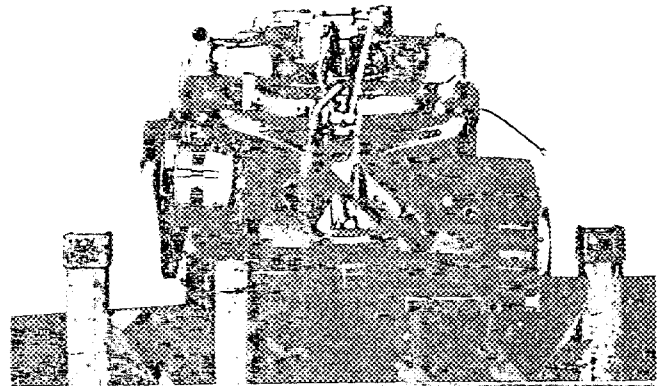
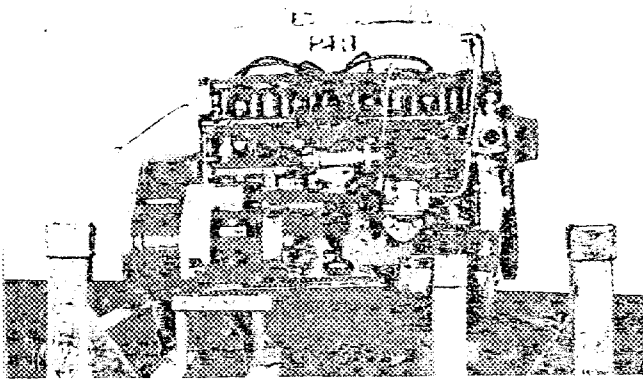
Photograph

Model BT80-2K

F.I.A. Rec. 170

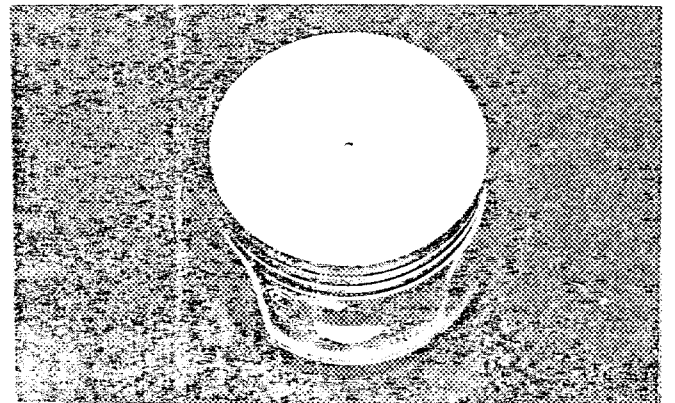
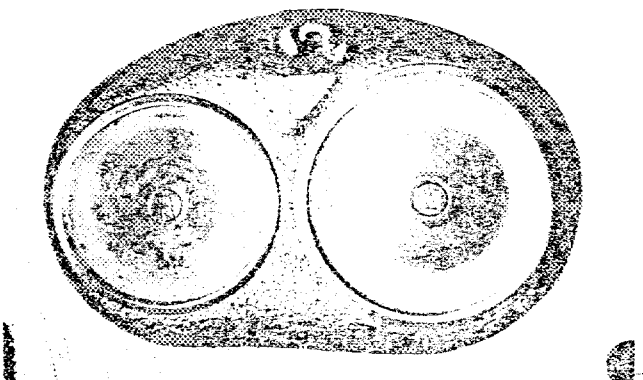
engine unit, set of tools, timing light, distributor and accessories set with the oil filter gearbox.

Figure 1. View of engine from left. With slush and oil. X. Location of oil filter gearbox and oil filter.



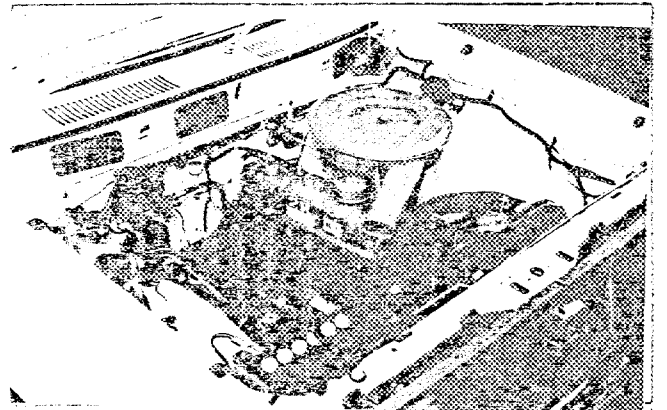
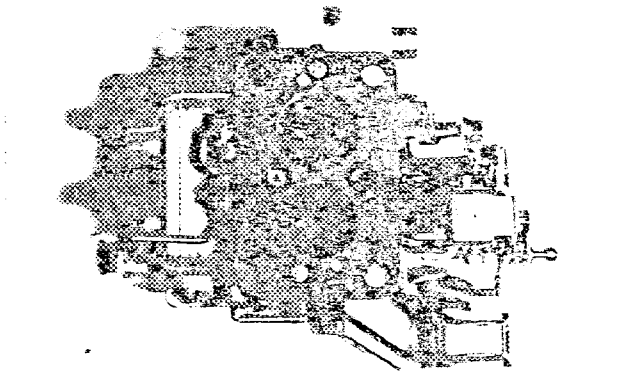
L, combustion chamber

M, oil filter



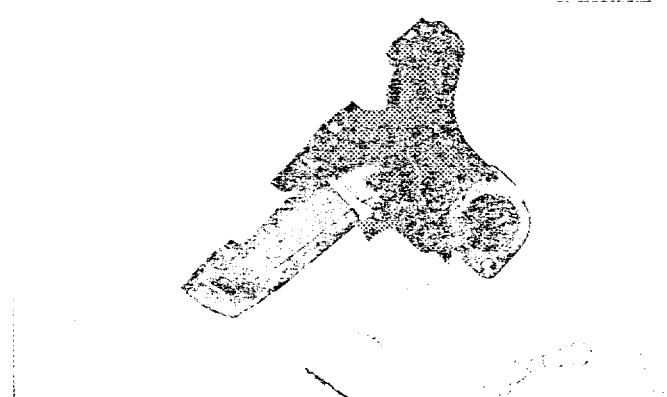
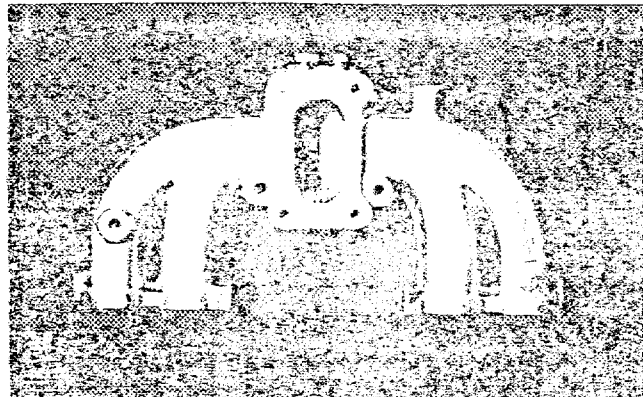
N, Carburettor (view from side of manifold)

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



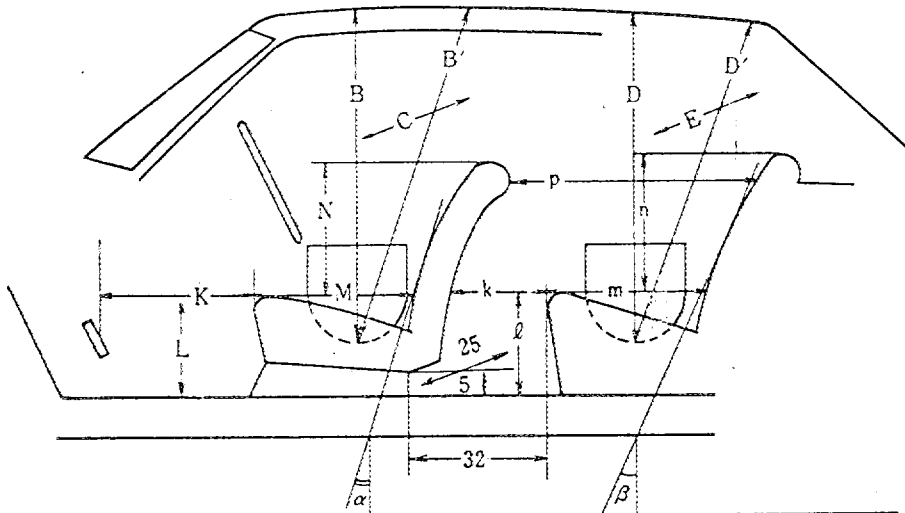
P, inlet manifold

Q, exhaust manifold



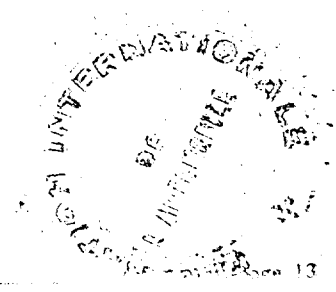
DIMENSIONS OF INTERIOR
(Conform to Art. 253 b of Appendix J)

For four seaters:



Minimum Dimensions (cm)							
B	B'	α	C	D	D'	β	E
92	102	25°	130	96	96	25°	130

Minimum Dimensions (cm)										
L	l	N	m	N	n	k+m	p	k	k+l+m	K+L+N
29.5	32	51	48	45	46.5	66	64	18	98	123
0.9L = 26.55		0.85N = 43.35		0.8N = 36		0.8(k+m) = 52.8		(15)	(95)	(120)



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



Yasuharu Manba

