

Manufacturer

Serial No. of Chassis

JAPAN AUTOMOBILE FEDERATION

Toyota Motor Co., Ltd.

UP 20 - 10001

F. I. A. Recognition No. 5/15 Group 1-Series Prod. Towning

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Cylinder-capacity

790

cm3 48.2 cu. in.

Model

UP 20

Manufacturer

Toyota Motor Co., Ltd.

5000

Recognition is valid from 111 August 1966

The manufacturing of the model described in this recognition form was started on Jan. 1966 and the minimum production of

identical cars, in accordance with the specifications of this form was reached on April 1966

Photograph A 3/4 view of car from front



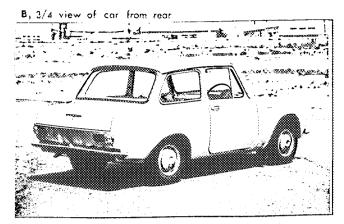
The vehicle described in this form has been subject to the following amendments

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.	Li st	on	19	rec. No.	List			

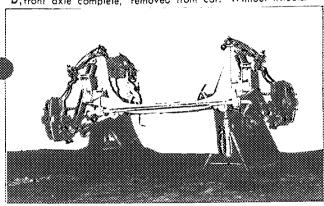
Stamp and signature of the National Sporting Authority

Stamp and si

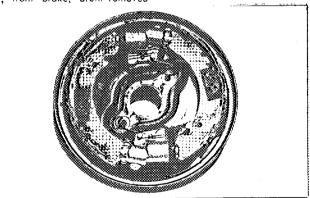
Photograph



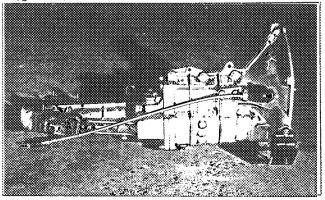
D, front axle complete, removed from car. Without wheels.



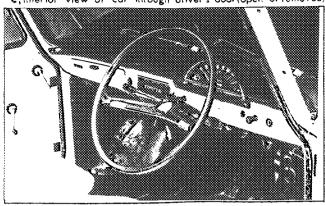
F, front brake, drum removed



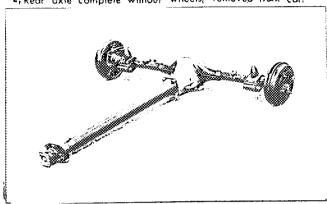
H, gear-box, view from side



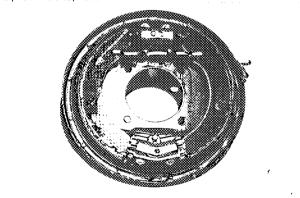
C, interior view of car through driver's door(open or removed)



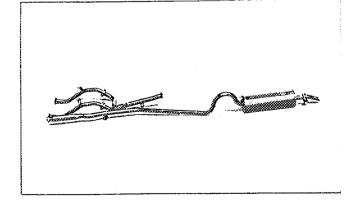
E, Rear axle complete without wheels, removed from car.



G, rear brake, drum removed

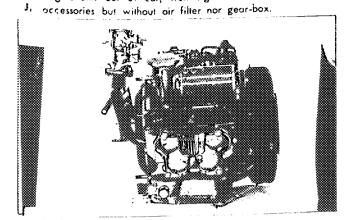


1, silencer + exhaust pipes after exhaust manifold.

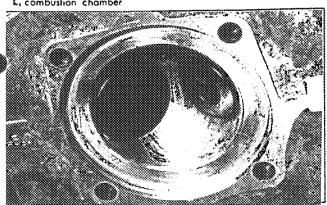


Model

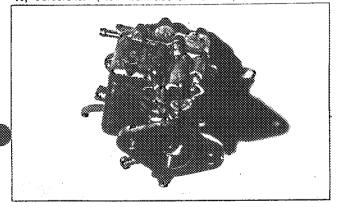
Engine unit out of car, from left. With clutch and ac- κ , cessories but without gear-box nor air filter.



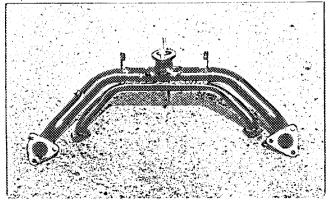
L, combustion chamber

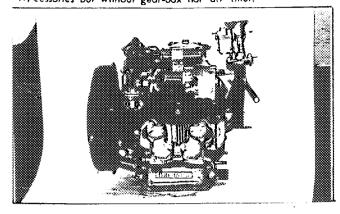


N, Carburettor (view from side of manifold)

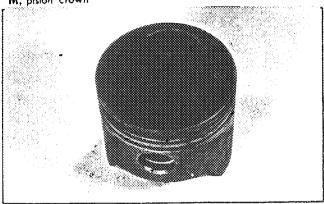


P, inlet manifold

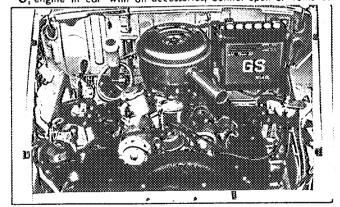




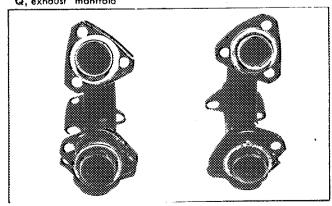
M, piston crown



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

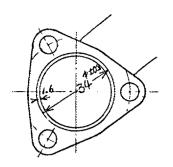


Q, exhaust manifold

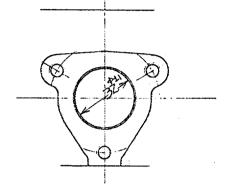


Page 3

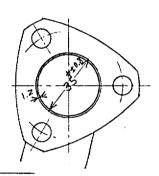
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



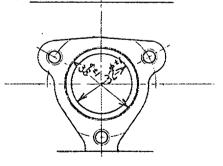
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimenons and manufacturing tolerance.



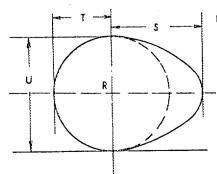
Drawing exhaust manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



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



Inlet cam



R=centre of camshafi.

Ex	haust	cam
s	=	22.5
T	=	16.5
		22 A

22.5

16.5

33.0

0.878

0.650

1.30

mm

mm

ពាពា

inches inches inches

inches

inches

inches

Make

Toyota

Model.

UP 20

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

ŧ.	Wheelbase	2130	mm	83.9	inches	
2.	Front track	1203	mm	47.4	inches *	
3.	Rear track	1160	mm .	54.7	inches *	
4.	Overall length of the co	or	362	cm	142.5	inches
5.	Overall width of the co	or	141.5	cm	55.8	inches
6.	Overall height of the	tar	138	cm	54.4	inches
7.	Capacity of fuel lank	(reserve included)		31	1	trs
	8.2	Gallon US			Gallon Ir	mp.

8. Seating capacity

L

9. Weight, lotal weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:

590 kg 1300 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 withch 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 11rs
1	foot / pied	- 30.4794 cm	. 1	pint (pt)	0.568 1 trs
1	square inch/pouce carré	- 6.452 cm ²	1	gollon Imp.	4.546 11rs
1	cubic inch/pouce cube	— 16.387 cm ³	1	gallon US	11795.40
1	pound / livre (1b)	— 453.593 gr.	1	hundred weight (cv	50.807
					15



٨	Moke Toyota	Mode	UP :	20	F. I. A. Rec. 1	No.
	CHASSIS AND COACHWORK (Photographs	A, B and C)				
20.	Chassis / body construction: 3800000 / unitary	construction				
21.	Unitary construction, material (s)				•	
	Separate construction	Steel Sh	reet		•	
22.	Material (s) of chassis					
23.	Material (s) of coachwork					
24.	Number of doors 2 Material (s)	Steel Sh	reet			
25.	Material (s) of bonnet	Steel Sh	neet			
26.	Material (s) of boot lid	Steel Sh	neet			
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	\$PECULATION STATES				
31,	Sliding system of door windows	Vertical	i, Manual			
32.	Material (s) of rear-quarter light	Glass				
	ACCESSORIES AND UPHOLSTERY		•			
38.	Interior heating : XXX - no	39. 🗚	Air-conditioning : XX	IX - no		
40.	Ventilation : yes - XX					
41.	Front seats, type of seats and upholstery	Bench,	Vinyl Leather	•		
42.	Weight of front seat (s), complete with suppo	rts and rails, ou	of the car :			
	13.9 kg		lbs			
43.	Rear seats, type of seats and upholstery	Bench,	Vinyl Leather			
		el Plate	Weight	2.8	kg	lbs
45.	Rear bumper, material (s) Ste	el Plate	Weight	2.8	kġ	lbs
			•			
	WHEELS					
50.	Type Pressed Steel, Disc	Wheel				
51.	Weight (per wheel, without tyre)	4.5	kg		•	lp:
52.	Method of attachment Four Hub Bo	lts and Nut				
53.	Rim diameter 304 mm	12	inches			
54.	Rim width 102 mm	4	inches			
	STEERING				•	
60.	Type Worm & Sector Rolle	r				
61.	Servo-assistance : XXXX - no	÷				
62.	Number of turns of steering wheel from lock	to lock	2.5	Sometime to the same of the sa	INTE	
63.	In case of servo-assistance	•		A L L	Poge 30	

UP 20

•	US	5	N C	10	N
3	U.S	~ ~	rs 3	16.5	м

Toyota

70. Front' suspension (photogr. D), type	Independ	ent by Dou	ble Wishbon	es	•	
71. Type of spring	Torsion	Bar	•			
72. Stabiliser (if fitted)	Torsion	Bar			*	
73. Number of shockabsorbers 2	74. Type	Hydraulic	: Telescopic			
78. Rear suspension (photogr. E), type	Torque T	ube				
79. Type of spring	w i	iptic Leaf	Spring		•	
80. Stabiliser (if fitted)	acceptodrophorecative				v .	
81. Number of shockabsorbers 2	2 82. Type	Hydraulic	: Telescopic	;		
BRAKES (photographs F and G)		-				
90. Method of operation	Hydraulic					•
91. Servo-assistance (if fitted), type	processing the second of the s					
92. Number of hydraulic master cylinde	ers <u>1</u>					
		FRONT		•	REAR	
93. Number of cylinders per wheel		2		•	1	
94. Bore of wheel cylinder (s)		n	ım 3/4 in.		mm 11/	16 in.
Drum brakes 95. Inside diameter		200 m	nm in.	200	mm .	in.
96. Length of brake linings		192 "	ım in.	192	mm	in.
97. Width of brake linings		30 m	ım in.	30	mm	in.
98. Number of shoes per brake		2			2	•
99. Total area per brake	13	15 x 10 ² m	nm² sq. ir	i. 115 x 1	.O ³ mm²	sq. in.
Disc brakes 100. Outside diameter		n	om in,		mm	in,
101. Thickness of disc	; 	, in	nm in.		mm	in.
102. Length of brake linings		rr	nm in.		mm	in.
103. Width of brake linings			ım in.		mm .	in.
104. Number of pads per brake						
105. Total area per brake		m	nm² sq. in	ı.	mm²	sq. in.



٨	Make Toyota			Mod	el	UP 20		F.	I.A. Rec. No.	
	ENGINE (photographs J and K)									٠
130	. Cycle 4			131.	Number	of cylinder	rs	2		
132	. Cylinder arrangement Horizontal	ly Op	posec	l						
133	Bore 83 mm 3.3		in.	134.	Stroke	73	mm	2.9	in,	
135	Capacity per cylinder	395			cm³		24.1		cu. in.	
.136	. <u>Total cylinder-capacity</u>	790			cm³		48.2		cu. in.	
137	. Material (s) of cylinder block		Cast	Iron						
138.	Material (s) of sleeves (if fitted)	:	000 100 100 100 100 100 100 100 100 100	n.						
139.	Cylinder-head, material (s)		Al-Al	loy			N	umber fitted	2	
140.	Number of inlet ports	2		141.	Number	of exnaust	ports	2		
142.	Compression ratio	8.2							• .	
143.	Volume of one combustion chamber			44		cm	3		cu. im.	
144.	Piston, material	Al-A	lloy			145, Nui	mber of rings	3		
146.	Distance from gudgeon pin centre line to	highe st	point	of pisk	on crown	,				
	36 m	m .				inches				
147.	Crankshoft: xxxxxxxx/ stamped			148.	Type of	crankshaft	: integral	j		•
149.	Number of crankshaft main bearings		2							
150.	Material of bearing cap	4								
151.	System of lubrication: אמציאטער / oil	in sum	P							
152.	Capacity, lubricant 2,8 ltrs					pts			quarts US	
153.	Oil cooler: XXXX / no			154.	Method	of engine c	ooling Air	Cooling	by Sirocco	Fan
155.	Capacity of cooling system 2.2 ftr	s				pints			quarts US	
156.	Cooling fan (if fined), dia. 22.2 cm	n				inch	es .			
157.	Number of blades of cooling fan		30				•			
	Bearings									
	Crankshaft main, type					Dia.	50	mm	in.	
159.	Connecting rod big end,					Dia.	50	mm	in.	
	Weights									
140					IL.					
	Flywheel (clean) 10 kg			1:	lbs 1		i		1t	
	Flywheel with clutch (all turning parts) Crankshaft 5.5 kg		fk				kg O 55	ļ	lbs lbs	
	, , ,	א א	iD!		Connecti	ng roo	0,55	kg	lbs	
104.	Piston with rings and pin (0.48		kg			lbs		•	



W	oke T oyota	Model	UP 20	F.I.A. Rec. No.
	FOUR STROKE ENGINES			
170.	Number of camshafts 1 171. Location	Crankcas	8	
172.	Type of comshalt drive Gear			
173.	Type of valve operation Push Rod & Rocke	r		
	INLET (sec page 4) *			
180.	Material(s) of inlet manifold Steel Pipe		•	
181.	Diameter of volves 38	mm	1.5	inches
182.	Max. valve lift 9.0 mm 0.35	in. 183.	Number of valve springs	2
184.	Type of spring Goil	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 in	dicated)	B.T.D.C. $24^{\circ} \pm 3^{\circ}$	
188.	Valves close at (with tolernce for lappet clearance indi	icated)	A.B.D.C. $64^{\circ} + 3^{\circ}$	
189.	Air filter, type Dry			
;	EXHAUST (see page 4)			
195.	Moterial (s) of exhaust manifold Stee	l Pipe		
196.	Diameter of valves 32	mm	1.26 inches	
197.	Max. valve lift 9.0 mm 0.35 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	mm	inches
202.	Valves open at (with tolerance for tappet clearance ind	icated)	B.B.D.C. $64^{\circ} \pm 3^{\circ}$	
203.	Valves close at (with tolerance for tappet clearance ind	licated)	A.T.D.C. 24°± 3°	
	CARBURETION (photograph N)			
210.	Number of corburettors fitted	211.	Type Down Draught	
212.	Make Aisan	213.	Model 21100-11020	
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 / principaractinas, with picto	ax ax maximaan	eizbk	
	26 mm		inches	
	INJECTION (if filled)			
220.	Make of pump	221.	Number of plungers	
222.	Model or type of pump		Total number of injectors	
224.	tocation of injectors		•	
225.	Minimum diameter of inlet pipe	mm		inches
	•			

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



Мо	ske Toye	ota	•	Model		UP	20		F. I. A.	Rec.	No.
	ENGINE ACCESSORIES	5									
230.	Fuel pump : mechan	icol xodo do	DCXENECKOX		231.	No. fitted		1			
232.	Type of ignition system	Make	and Break	: Ignitio	n 233.	No. of di	istributors	1			
234.	No. of ignition coils	1			235.	No. of sp	oark plugs pe	r cylinder	1		
236.	Generator, type: dynamo;	KOKDIO ODO ODE PO	mber fitted	1	237.	Method o	of drive	V Belt			
238.	Voltage of generator	12	volts		239.	Battery,	number	1			
240.	Location	Engir	e Compart	ment							
241.	Voltage of battery	12	volts								
	ENGINE AND CAR PE	RFORMANC	S (as declare	ed by manufa	cturer in	r catalogue	e)				
250.	Max. engine output	36 PS	(type of hors	epower: JI	S)	at	4600		rpm		
251.	Maximum rpm	5200	oulput	at that figur	е	32				. •	•
252.	Maximum torque	6.3 kg-m	at	3000 rpm							
253.	Maximum speed of the co	ar	115	km/hour			miles	/ hour			



Model

UP 20

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

16.3

cm

inches

263. Dia. of linings, inside

11.0

cm

in. outside

16.0

cm

in.

264. Method of operating clutch

Flexible Cable

GEAR BOX (photograph H)

270. Manual type, make

Toyota

271. No. of gear-box ratios forward

4

272. Synchronized forward ratios

2nd, 3rd & 4th

273. Location of gear-shift

Steering Column, Floor (think

274. Automatic, make

type

275. No. of forward ratios

276. Location of gear-shift

277.	Ratio .	anual No. teeth	Au Ratio	tomatic No. teeth	Ratio	xòdexaxe man No. teeth	nual/ xpromoraix Ratio	No.	teeth
ţ	4.444	40/9			4.444	40/9			
2	2.642	37/14			2.400	36/15			
3	1.684	32/19			1.550	31/20			
Å	1.125	27/24			1.125	27/24			
5							N		
6		:							
reverse	5.812	17/9 40/13		; ;	5.812	17/9 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

3.889 , 3.556

Number of teeth

35/9 , 32/9



Page 11

Make

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 and N.

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 preceeding information. This to be stated together with reference number.

This model of car has another appearance equipped with various embellishing accessories as below.





Mo	oke Toyota		Model	Ę	JP 20)	F. I. A. R	ec. No.
	TWO STROKE ENGINES							
300.	System of cylinder scavenging							
301.	Type of lubrication							
302.	Inlet ports, length measured around cy	linder wall				mm		inches
3 03.	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 p	piston				mm		inches
312.	Height piston port	mm	in. 313.	Areo		mm²		sq. in.

inches

318. Distance from top of cyl. block to highest point of exhaust port :

320. Distance from top of cyl. block to highest point of transfer port:

319. Distance from top of cyl. block to lowest point of inlet port :

330. Supercharging—state full details hereafter :

314. Method of precompression

321. Drawing of cylinder ports.

316. Bore

JAPAN AUTOMOBILE FEDERATION

Chairman

of Technical Subcommission

Yasuharu Nanba



315. Precompression cyl.: yes ho

mm

mm

mm

mm

317. Stroke

inches

inches

inches

inches