JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. 541

Group 3 G, T,

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Cylinder-capacity 958.6 cm3 58.50 cu. in.

Manufacturer DAIHATSU KOGYO K.K.

Model F40K Compagno Spider

Chassis F40K-10001

Engine FE -20011

Manufacturer DAIHATSU KOGYO K.K.

Manufacturer DAIHATSU KOGYO K.K.

Recognition period from 1st May 1966

List 14/4

The manufacturing of the model described in this recognition form was started on April 1965 and the minimum production of 500 identical cars, in accordance with the specifications of this form was reached on January 1966

Photograph A, 3/4 view of car from front

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

Stamp and signature of the F. I. A.

Page 1

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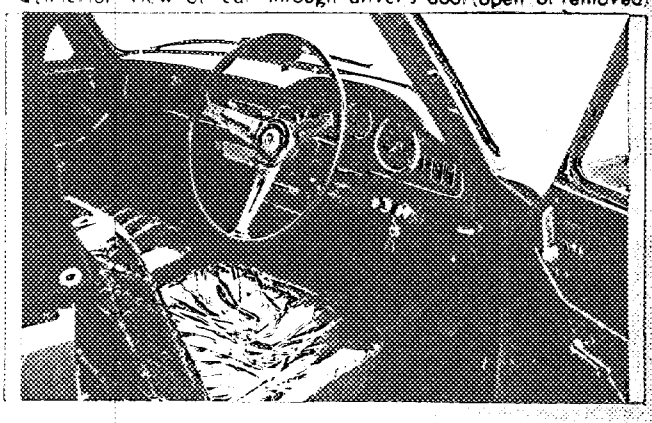
Make DAIHATSU KOGYO K.K. Model F40K F.I.A. Rec. No.

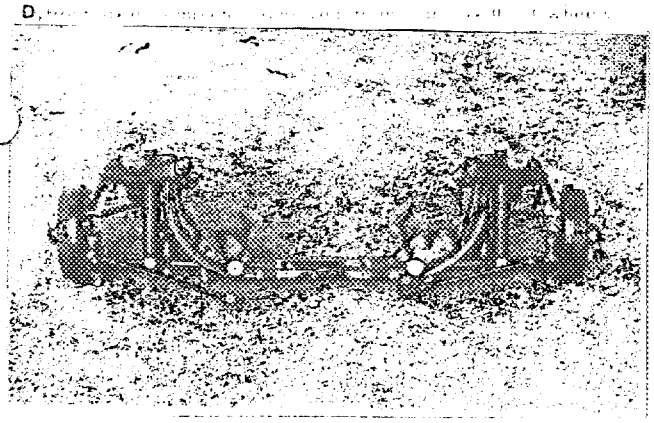
Photograph

B. 3/4 view of car from rear

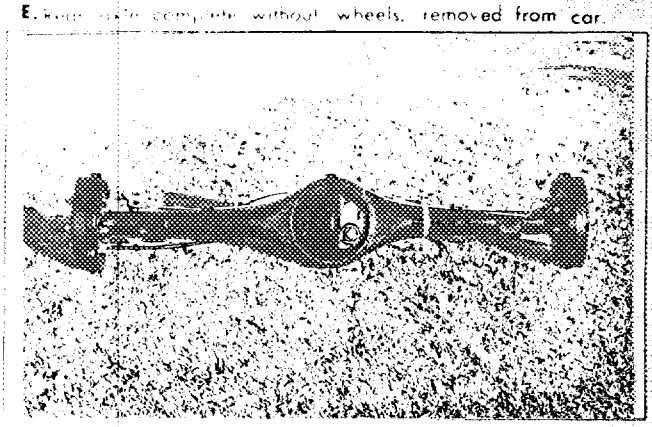
C. Interior view of car through driver's door (open or removed)



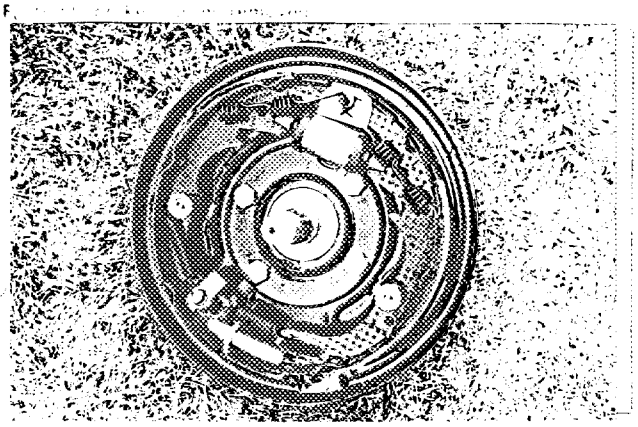
D. [illegible]



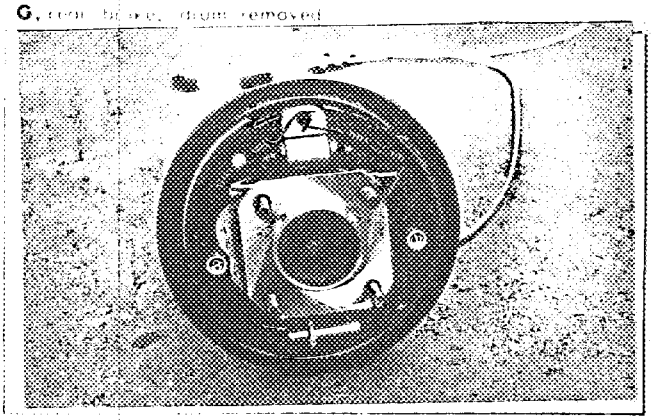
E. Rear axle complete without wheels, removed from car.



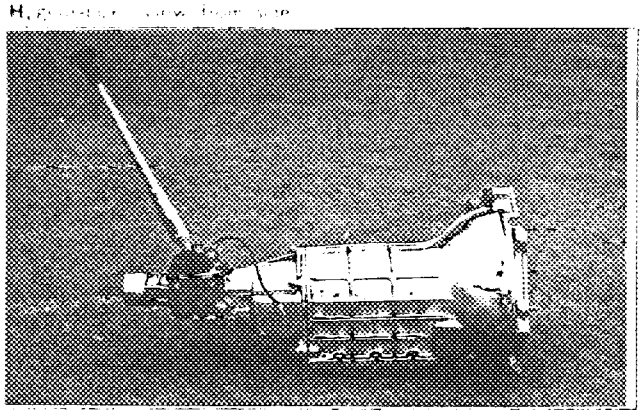
F. [illegible]



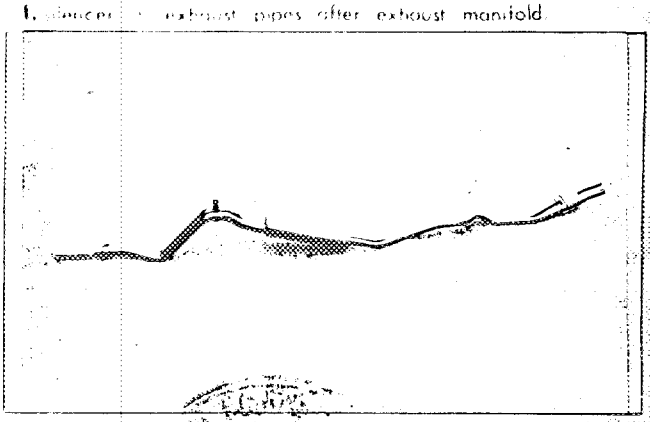
G. Rear brake drum removed



H. [illegible]



I. Silencer & exhaust pipes after exhaust manifold



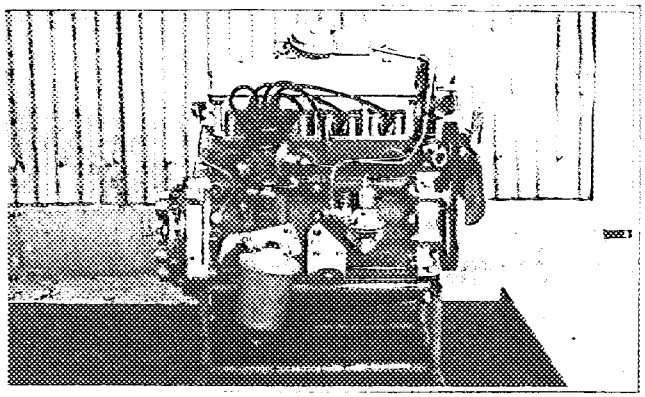
DAIHATSU KOGYO K.K.

Model F40K

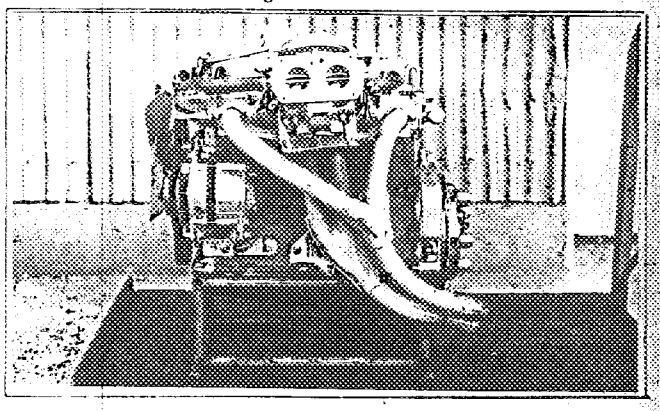
Photograph

F.I.A. Rec. No.

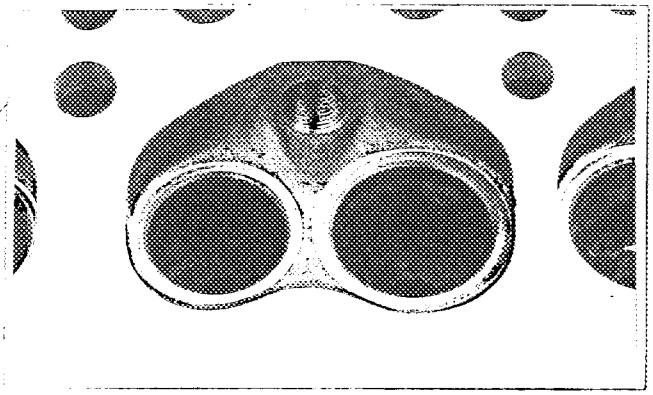
J. [illegible] gear-box



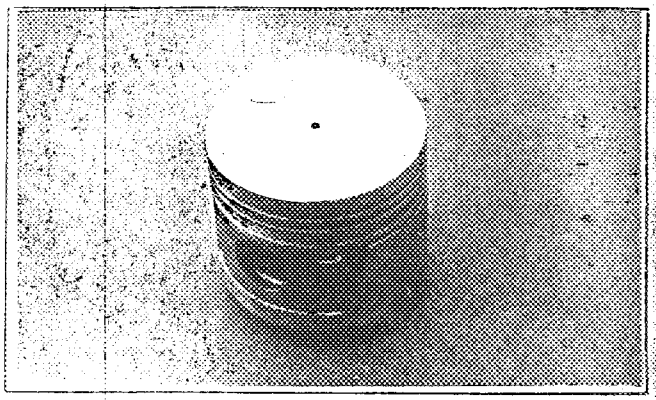
K. Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.



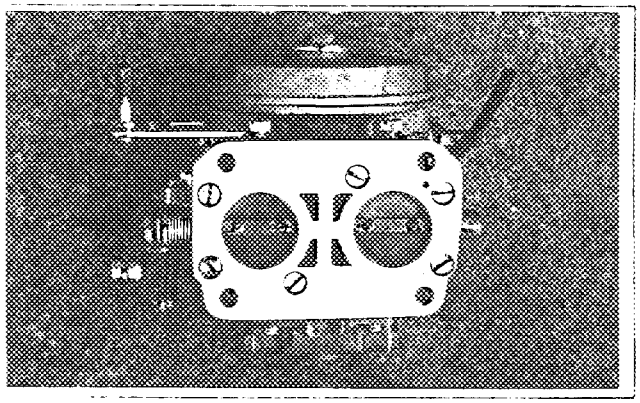
L. [illegible]



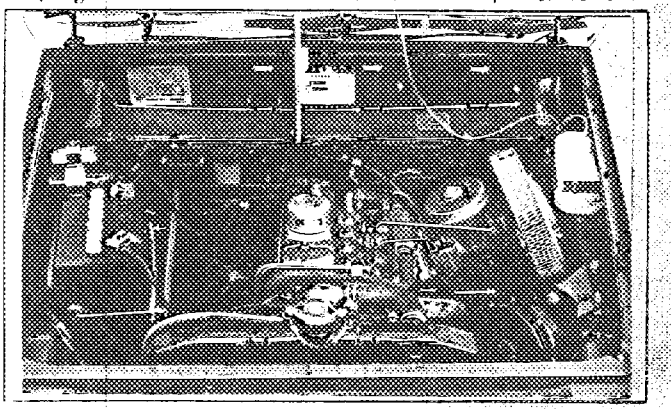
M. piston crown



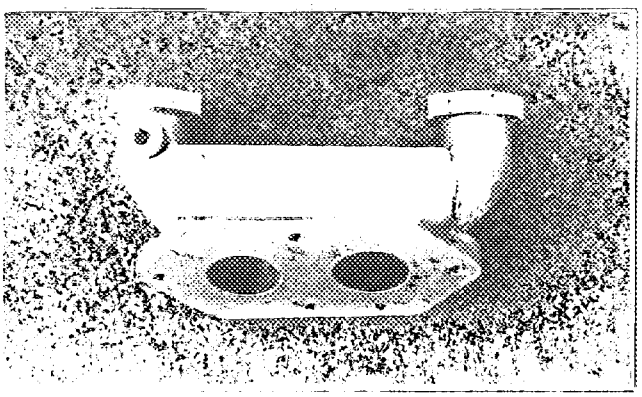
N. [illegible] side of manifold



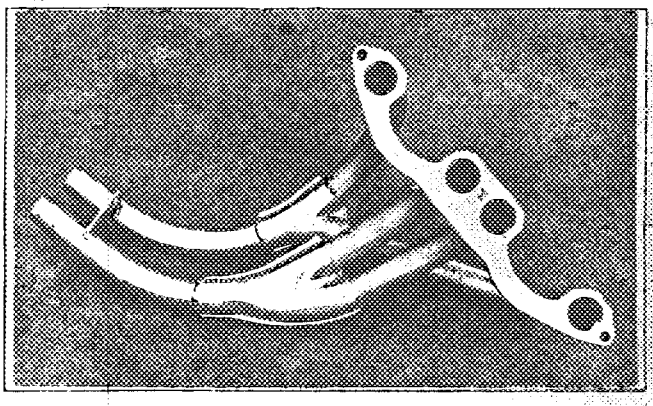
O. engine in car with all accessories, bonnet open or removed.



P. [illegible]

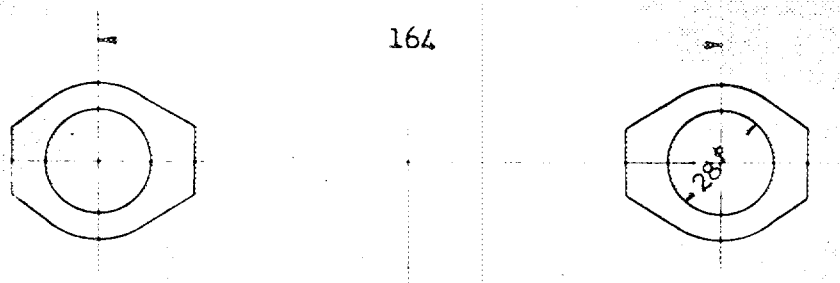


Q. exhaust manifold

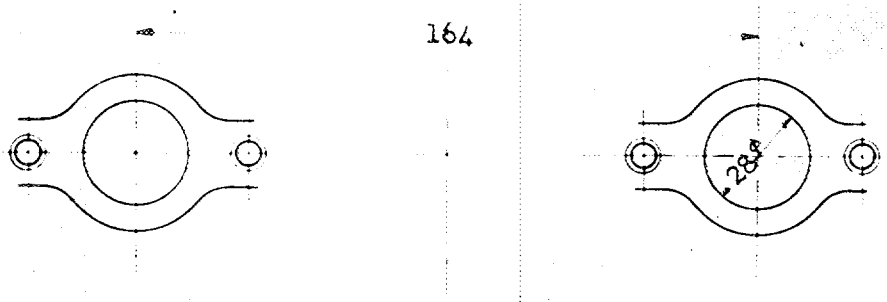


DAIHATSU KOGYO K.K. Model F40K

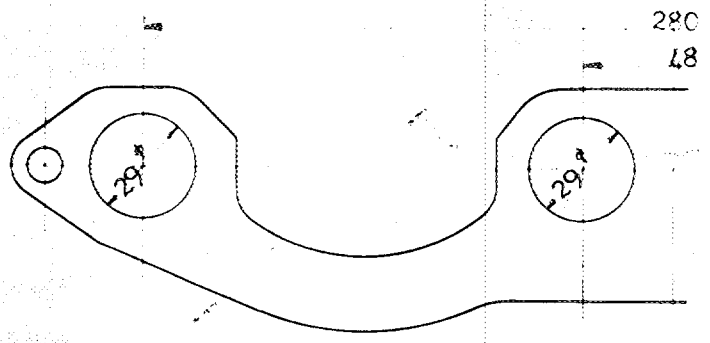
Drawing inlet manifold ports, cylinders, indicate dimensions and manufacturing tolerance



Drawing of exhaust manifold ports, cylinders, indicate dimensions and manufacturing tolerance

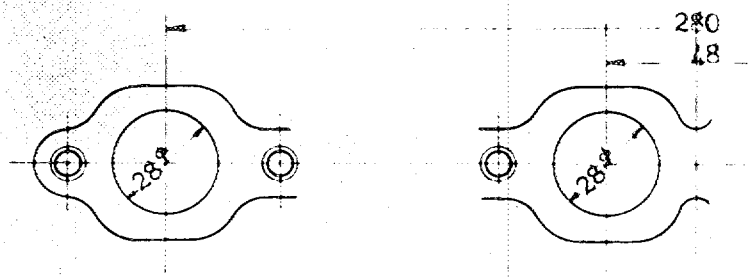


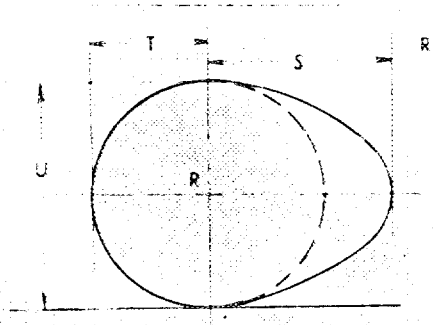
Drawing of exhaust manifold ports, cylinders, indicate dimensions and manufacturing tolerance



Tolerance: ± 1.2mm
Dimension: mm

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





R = centre of camshaft.

Inlet cam				
S =	18.2	mm	0.72	inches
T =	12.5	mm	0.49	inches
U =	25.0	mm	0.98	inches
Exhaust cam				
S =	18.2	mm	0.72	inches
T =	12.5	mm	0.49	inches
U =	25.0	mm	0.98	inches

Make DAIHATSU KOGYO K.K. Model F40K 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

1	Wheelbase	2,220	mm		87.4	inches	
2	Front track	1,190	mm		46.9	inches	*
3	Rear track	1,170	mm		46.1	inches	*
4	Overall length of the car			379.5	cm		inches
5	Overall width of the car			144.5	cm		inches
6	Overall height of the car			135.0	cm		inches
7	Capacity of fuel tank (reserve included)	8.45	Gallon US			32	ltrs Gallon Imp.
8	Seating capacity	4					
9	Weight, total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:	765	kg	1,690	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	-- 50.802 kg

CHASSIS AND COACHWORK

	Steel
	Steel
	Steel
2	Steel
	Steel
	Steel
	Vinyl chloride
	Glass
	Glass
	Vertical, Manual
	Vinyl chloride

ACCESSORIES AND UPHOLSTERY

& vinyl leather

11.7 ×

& vinyl leather

Steel		3.8	kg
Steel		5.1	kg

WHEELS

	Pressed steel		
		4.5	kg
	4		
	4.5	12	inches
	10J x	4	inches

STEERING

Recirculating ball & nuts

3.5

Make DAIHATSU KOGYO K.K. Model F40K F.I.A. Rec. No.

SUSPENSION

70. Front suspension (photogr. D), type: Independent, wishbone
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: Rigid axle case
79. Type of spring: Semi-elliptic leaf spring
80. Stabiliser (if fitted): Torsion bar
81. Number of shockabsorbers: 2 — 82. Type: Hydraulic, telescopic

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	1		1	
94. Bore of wheel cylinder (s)	mm 3/4	in.	mm 5/8	in.
Drum brakes				
95. Inside diameter	203.2 mm 177	in.	203.2 mm 177	in.
96. Length of brake linings	222 mm	in.	222 mm	in.
97. Width of brake linings	34 mm	in.	34 mm	in.
98. Number of shoes per brake	2		2	
99. Total area per brake	13566 mm²	sq. in.	13566 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: DAIHATSU KOGYO K.K. Model: F40K F.I.A. Reg. No.

ENGINE photographs J and K

130 Cycle: 4 131 Number of cylinders: 4

132 Cylinder arrangement: In line

133 Bore: 68 mm 2.68 in. 134 Stroke: 66 mm 2.60 in.

135 Capacity per cylinder: 239.7 cm³ 14.6 cu. in.

136 Total cylinder-capacity: 958.6 cm³ 58.5 cu. in.

137 Material of cylinder block: Cast iron

138 Material of sleeves (if fitted):

139 Cylinder-head, material: Al-alloy Number fitted: 1

140 Number of inlet ports: 2 141 Number of exhaust ports: 4

142 Compression ratio: 9.5

143 Volume of one combustion chamber: 25.5 cm³ 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

34 mm inches

147 Crankshaft: moulded ~~stamped~~ 148. Type of crankshaft: integral *

149 Number of crankshaft main bearings: 3

150 Material of bearing cap: Cast iron

151 System of lubrication: ~~splash~~ ~~pressure~~ oil in sump

152 Capacity, lubricant: 2.8 ltrs pts quarts US

153 Oil cooler: ~~yes~~ no 154. Method of engine cooling: Water cooling

155 Capacity of cooling system: 4.3 ltrs pints quarts US

156 Cooling fan, if fitted, dia.: 27.5 cm inches

157 Number of blades of cooling fan: 4

Bearings

158 Crankshaft main, type: Plain Dia. 50 mm in.

159 Connecting rod big end: Plain Dia. 42 mm in.

Weights

160 Flywheel, clean: 4.5 kg lbs

161 Flywheel with clutch (all turning parts): 9.8 kg lbs

162 Crankshaft: 8.2 kg lbs 163. Connecting rod: 0.51 kg lbs

164 Piston with rings and pin: 0.25 kg lbs

FOUR STROKE ENGINES

Number of cylinders: 1 — Cylinder block

Type of camshaft drive: Gear

Type of valve operation: Push-rod & rocker-arm

INLET *

Material of inlet manifold: Al-alloy

Diameter of valve: 32.0 mm — 1.25 inches

Valve lift: 9.5 mm — 0.37 in

Number of valve springs: 1

Type of valve spring: Coil

Number of valves per cylinder: 1

Inlet valve clearance (for tappet clearance adjustment): 0.15 mm — inches

Inlet valve opens (for tappet clearance adjustment): 25 B.T.D.C. ± 5°

Inlet valve closes (for tappet clearance adjustment): 65 A.B.D.C. ± 5°

Air cleaner: Dry

EXHAUST

Material of exhaust manifold: Steel pipe

Diameter of valve: 29.0 mm — 1.14 inches

Valve lift: 9.5 mm — 0.37 in

Number of valve springs: 1

Type of valve spring: Coil

Number of valves per cylinder: 1

Exhaust valve clearance (for tappet clearance adjustment): 0.15 mm — inches

Exhaust valve opens (for tappet clearance adjustment): 65 B.B.D.C. ± 5°

Exhaust valve closes (for tappet clearance adjustment): 25 A.T.D.C. ± 5°

CARBURETION

Number of carburettors fitted: 1

Make: MIKUNI

Type: Horizontal draft

Model: BSW 36

Number of main venturis per carburettor: 2

Flange bore diameter of inlet parts of carburettor: 36 mm — in

Throttle bore — maximum diam. with throttle at maximum height: 30 mm — inches

INJECTION

Make of pump:

Number of plungers:

Model or type of pump:

Total number of injectors:

Number of engines:

Maximum diameter of inlet pipe: mm — inches

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

DAIHATSU KOGYO K.K. Model F40K

ENGINE ACCESSORIES

Fuel pump	mechanical ~~or electric~~	No. of carburetors	1
Ignition system	Make & break ignition	No. of distributors	1
No. of ignition coils	1	No. of spark plugs per cylinder	1
Generator type ~~alternator~~ alternator-number fitted	1	No. of Alternator drive	V-belt
Voltage of generator	12 volts	No. of Battery	1
Location	Engine room		
Voltage of battery	12		

ENGINE AND CAR PERFORMANCES as furnished by manufacturer in catalogue

Maximum power	65 PS	Type of measurement	JIS	at	6,500 rpm
Piston displacement	6,200 cc	Net horsepower			64.5 PS
Maximum torque	7.8 kgm	at	4,500 rpm		
Maximum speed of car	145 km/hour				miles/hour

DAIHATSU KOGYO K.K. F40K

DRIVE TRAIN

CLUTCH

	Dry plate 1
	17
	11 17
	Hydraulic

GEAR BOX

	DAIHATSU KOGYO K.K.
	4 4 forward 1,2,3,4.
	Floor

Ratio	No. teeth			Alternative manual Ratio	No. teeth		
3.678	34/19	37/18		2.896	31/22	37/18	
2.334	34/19	30/23		1.986	31/22	31/22	
1.481	34/19	24/29		1.357	31/22	26/27	
1.000				1.000			
5.227	34/19	21/19	37/14	4.116	31/22	21/19	37/14

FINAL DRIVE

	Hypoid	
	Bevel gear	
	4.222	4.556
	38/9	41/9

[illegible] the conformity of the car with the [illegible]

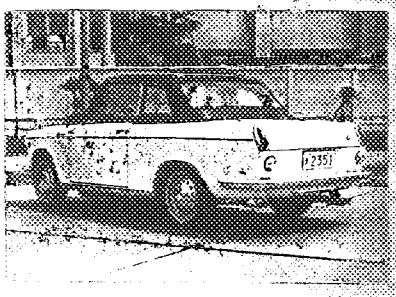
[illegible] 41, 72, 80, 91, 147, [illegible]

[illegible] 201, 202, 203, 212, 213, [illegible]

[illegible] the present recognition form [illegible]

[illegible] 82, 133, 134, 135, 136, [illegible]

[illegible] 289, 290, 291, 292 and [illegible]



[illegible] Glass

Material [illegible] rear quarter light Glass

[illegible]

[illegible] Weight (per wheel without tyre) 5.3 kg

[illegible] Diameter 330.2 mm 13 inches

[illegible] 101.6 mm 4 inches

OIL PAN Al-alloy

152 Capacity, lubricant 3.1 ltrs

LIMITED SLIP DIFFERENTIAL

Model F4CK

F. I. A. Rec. No.

				mm		inches
	mm	in	304 Area	mm^2		sq. in.
				mm		inches
	mm	in	307 Area	mm^2		sq. in.
				mm		inches
	mm	in	310 Area	mm^2		sq. in.
				mm		inches
	mm	in	314 Area	mm^2		sq. in.
			315 Precompression cyl. :	yes / no		
		inches	317 Stroke	mm		inches
				mm		inches
				mm		inches
				mm		inches

supercharging ... hereafter

JAPAN AUTOMOBILE FEDERATION

... Subcommission

Osamu Hirao