



# JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. **1426**  
Group **2-Touring**

## FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer: **DAIHATSU KOGYO K.K.**

Serial No. of chassis: **F40-10001**

Serial No. of engine: **FE-10011**

Recognition is valid from: **1st May 1966**

The manufacturing of the model described in this recognition form was started on **October 1965** and the minimum production of **1000** identical cars in accordance with the specifications of this form was reached on **January 1966**

Cylinder-capacity: **958.6** cm<sup>3</sup> **58.50** cu. in.

Model: **F40 Compagno Berlina 1000**

Manufacturer: **DAIHATSU KOGYO K.K.**

Manufacturer: **DAIHATSU KOGYO K.K.**

List: **14/4**

Photograph A, 3/4 view of car from front



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

### Variants

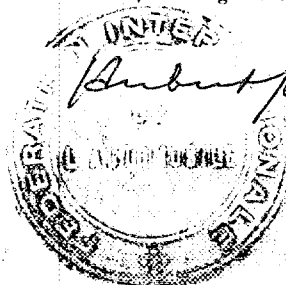
on	19	rec. No.	List
on	19	rec. No.	List
on	19	rec. No.	List
on	19	rec. No.	List
on	19	rec. No.	List

### 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.

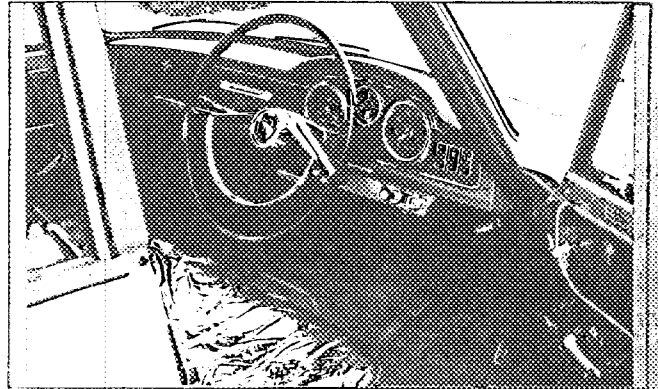


Photograph

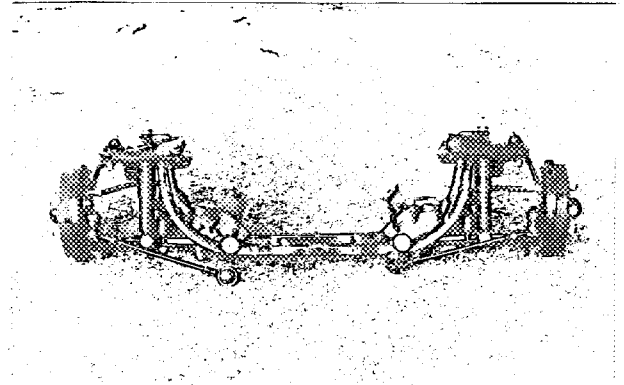
B, exterior view of car from rear



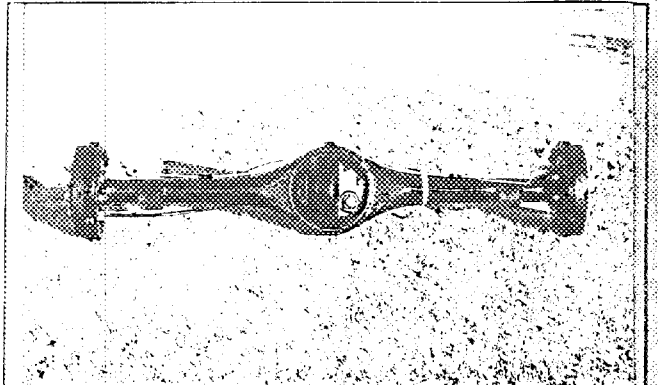
C, interior view of car through driver's door (open or removed)



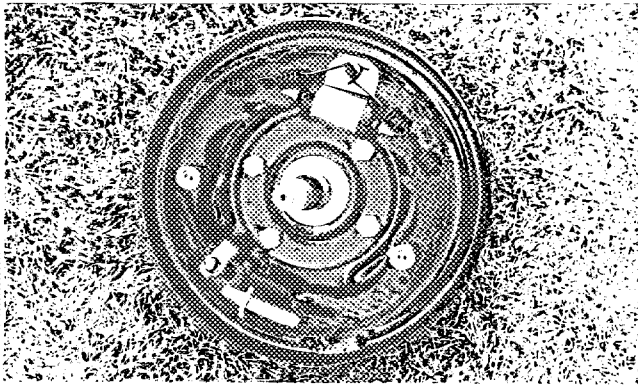
D, front axle complete removed from car without wheels



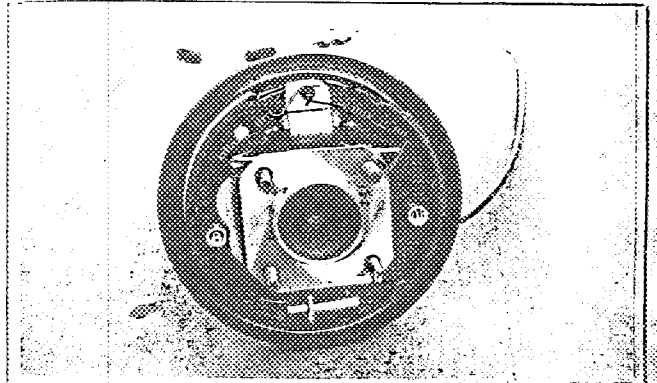
E, Rear axle complete without wheels, removed from car.



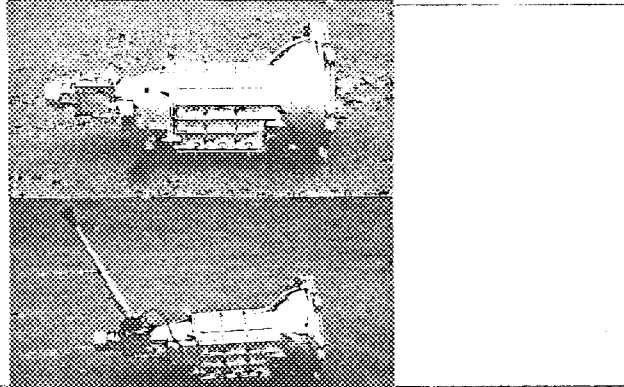
F, rear wheel removed



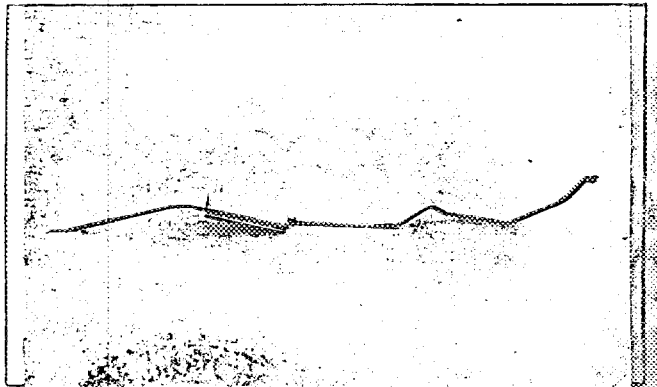
G, rear brake, drum removed



H, silencer and exhaust pipes from site



I, silencer & exhaust pipes after exhaust manifold.



DAIHATSU ROSSO K.R.

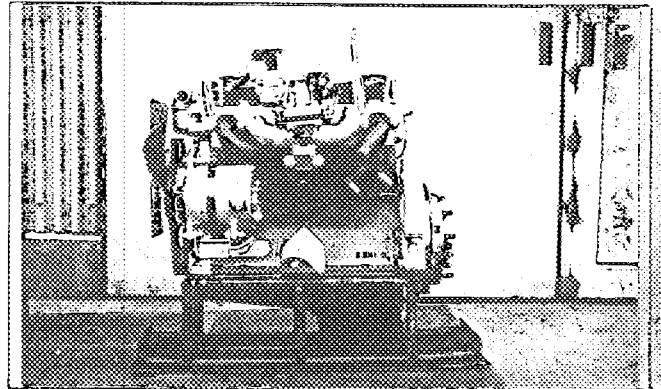
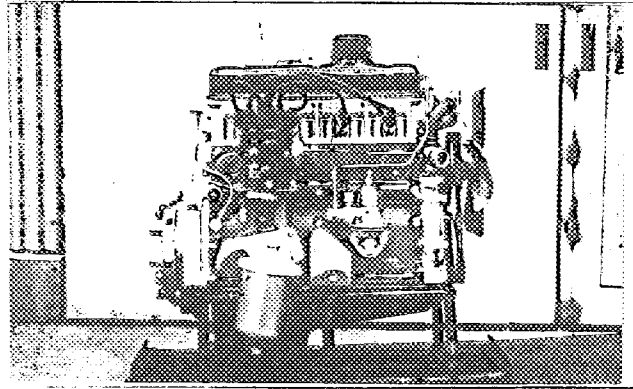
Photograph

Model F40

F.I.A. Rec. No.

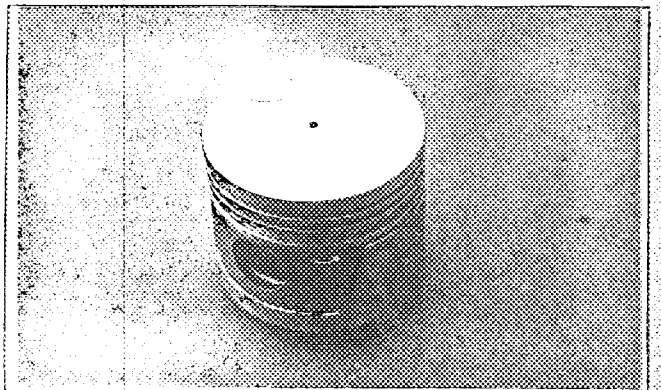
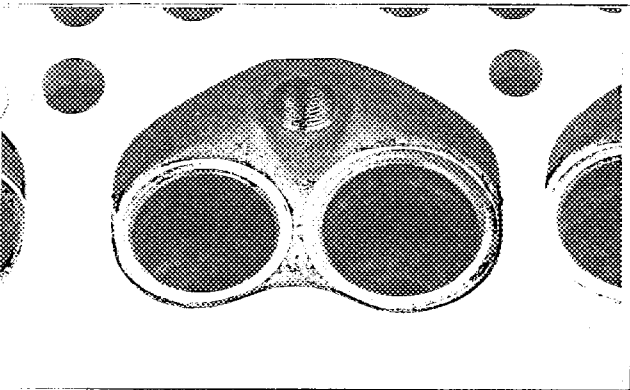
Engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box

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



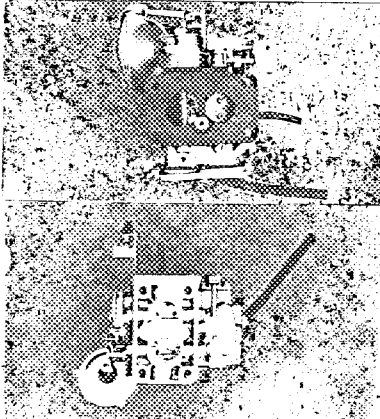
L, combustion chamber

M, piston crown



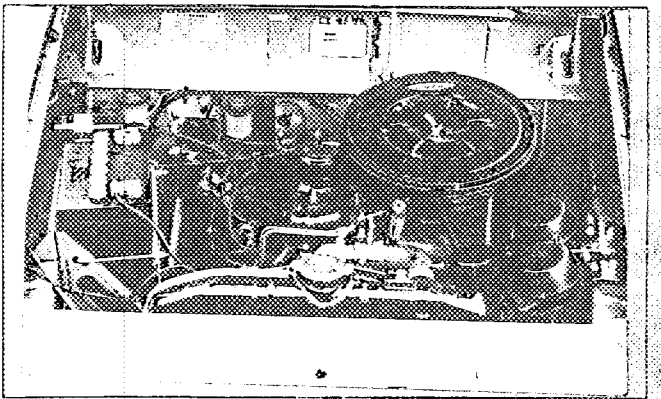
N, carburettor (view from side of manifold)

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



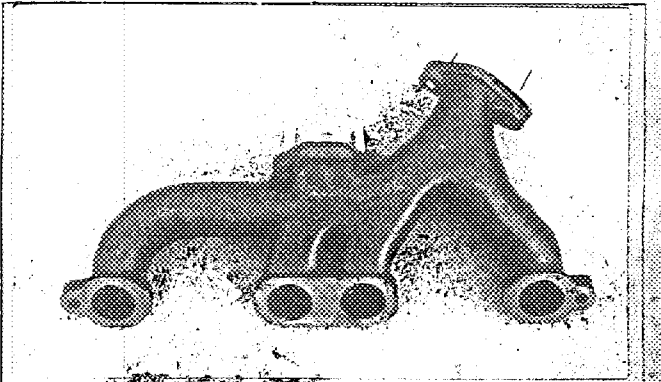
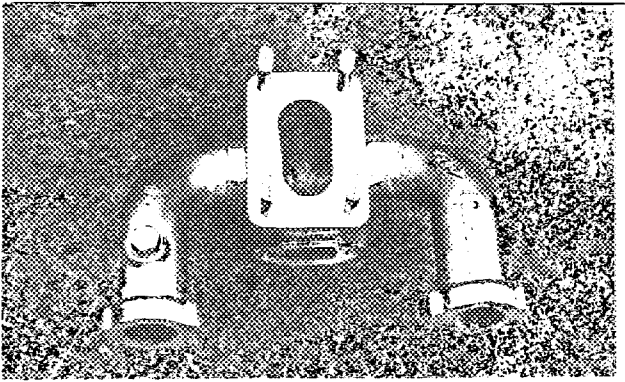
NIKKI  
(D26-30)

MIKUNI  
(26-30D1D)

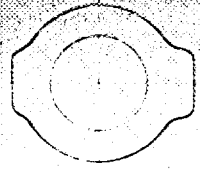


P, inlet manifold

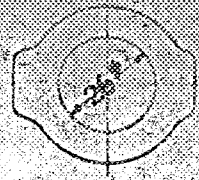
Q, exhaust manifold



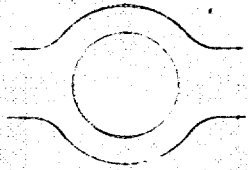
Drawing of inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



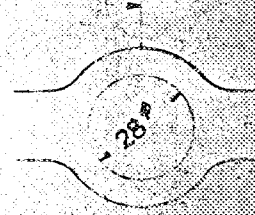
164



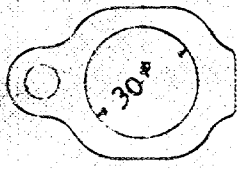
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



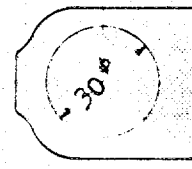
164



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

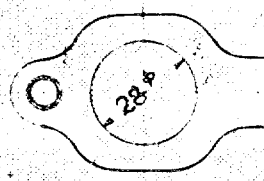


280  
48

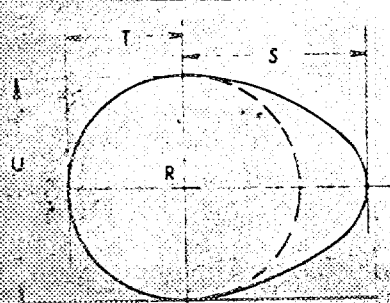
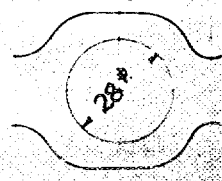


Dimension: 280  
Tolerance: 48

Drawing of exit to exhaust port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



280  
48



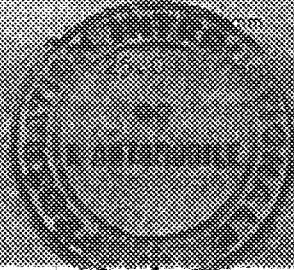
R = centre of camshaft.

Inlet cam

S =	17.5	mm	0.68
T =	12.5	mm	0.49
U =	25.0	mm	0.98

Exhaust cam

S =	17.5	mm	0.68
T =	12.5	mm	0.49
U =	25.0	mm	0.98



**CAPACITIES AND DIMENSIONS**

Wheelbase	2,280	mm	89.8	inches
Front track	1,190	mm	46.9	inches *
Rear track	1,170	mm	46.1	inches *
Overall length of the car		386.5	cm	inches
Overall width of the car		144.5	cm	inches
Overall height of the car		141.0	cm	inches
Capacity fuel tank (reserve included)			41	liters
	10.93	Gallon US		Gallon Imp.
Number seats	5			
Weight of the car with normal equipment (water, oil and spare wheel but without fuel nor repair tools)	755	kg	1,660	lbs
				cw

\* The track or 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 liters
1 foot / pied	30.4794 cm	1 pint (pt)	0.568 liters
1 square inch / pouce carré	6.452 cm <sup>2</sup>	1 gallon Imp.	4.546 liters
1 cubic inch / pouce cube	16.387 cm <sup>3</sup>	1 gallon US	3.785 liters
1 pound / livre / lb.	453.593 gr.	1 hundred	100.000 kg

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

- 20 Chassis body construction  separate  ~~unitary construction~~
- 21 Unitary construction, material(s)
  - 21.1 Separate construction **Steel**
- 22 Material(s) of chassis **Steel**
- 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 **Glass**

**ACCESSORIES AND UPHOLSTERY**

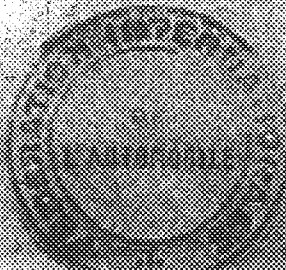
- 35 Interior heating  ~~yes~~ -  no
- 36 Ventilation  yes -  no
- 37 Front seats, type of seats and upholstery **Bench seat & vinyl leather**
- 38 Weight of front seat(s), complete with supports and rails, out of the car
  - 38.1 **21.6** kg
  - 38.2 **47** lbs
- 39 Rear seats, type of seats and upholstery **Bench seat & vinyl leather**
- 40 Front bumper, material(s) **Steel** Weight **3.8** kg
- 41 Rear bumper, material(s) **Steel** Weight **5.1** kg

**WHEELS**

- 42 Type **Pressed Steel**
- 43 Weight per wheel, without tyre **4.8** kg
- 44 Method of attachment **4 hub-bolts & nuts**
- 45 Rim diameter **304.8** mm **12** inches
- 46 Rim width **101.6** mm **4** inches

**STEERING**

- 47 Type **Recirculating ball & nuts**
- 48 Servo-assistance  ~~yes~~ -  no
- 49 Number of turns of steering wheel from lock to lock **3.5**
- 50 In case of semi-steering assistance



**SUSPENSION**

01. Wheel suspension principle: Disc type  
 02. Type of front suspension: Independent, wishbone  
 03. Type of rear suspension: Torsion bar  
 04. Number of shock absorbers: 2  
 05. Type of shock absorbers: Hydraulic, telescopic  
 06. King pin type: Rigid axle case  
 07. Type of leaf spring: Semi-elliptic leaf spring  
 08. Number of shock absorbers: 2  
 09. Type of shock absorbers: Hydraulic, telescopic

**BRAKES**

01. Type of brakes: Hydraulic  
 02. Number of cylinders: 1

	FRONT		REAR	
01. Number of cylinders per wheel	1		1	
02. Bore of front cylinder	mm	3/4 in	mm	5/8

**Drum brakes**

01. Outside diameter	203,2	mm	in.	203,2	mm
02. Length of brake linings	177	mm	in.	177	mm
03. Width of brake linings	222	mm	in.	222	mm
04. Width of brake linings	34	mm	in.	34	mm
05. Number of shoes per brake	2			2	
06. Total area per brake	13566	mm <sup>2</sup>	sq. in.	13566	mm <sup>2</sup>

**Disc brakes**

01. Outside diameter	mm	in.	mm	
02. Thickness of disc	mm	in.	mm	
03. Length of brake linings	mm	in.	mm	
04. Width of brake linings	mm	in.	mm	
05. Number of pads per brake				
06. Total area per brake	mm <sup>2</sup>	sq. in.	mm <sup>2</sup>	



ENGINE

				134. Number of cylinders	4	
12. Cylinder arrangement	In line					
13. Stroke	68 mm	2.68 in.	134. Stroke	66 mm	2.60 in.	
14. Capacity, oil sump		239.7 cm <sup>3</sup>			14.6 quarts	
15. Capacity, oil capacity		958.6 cm <sup>3</sup>			58.5 quarts	
16. Material of cylinder block		Cast iron				
17. Material of sleeves of lined						
18. Material of material		Al-alloy		145. Number fitted	1	
19. Number of main pins		2		Number of exhaust ports	2	
20. Diameter of main pins		9.0 mm				
21. Material of main pins		Al-alloy		145. Diameter	25.5 mm	
22. Diameter of main pins				145. Number of rings	3	
23. Distance from centre line to highest point of crown		24 mm				
24. Crankshaft material		<del>stamped</del>		146. Type of crankshaft	Integral	
25. Number of crankshaft main bearings		3				
26. Material of bearing cap		Cast iron				
27. System of lubrication		<del>dry sump</del> / oil in sump				
28. Capacity lubricant	2.8 litres					quarts
29. Oil cooler		no		154. Method of engine cooling	Water cooling	
30. Capacity of cooling system	4.3 litres					quarts
31. Cooling fan (if fitted), dia.	27.5 cm					inches
32. Number of blades of cooling fan		4				

Bearings

33. Crankshaft main, type	Plain		Dia	50 mm	
34. Connecting rod big end	Plain		Dia	42 mm	

Weights

35. Flywheel	4.25 kg		lbs	
36. Flywheel with clutch oil pump parts		9.8 kg		
37. Crankshaft	8.2 kg		lbs	
38. Connecting rod		0.51 kg		
39. Piston with rings and pin	0.25 kg		lbs	



FOUR STROKE ENGINES

Number of cylinders 4  
Type of crankshaft drive gear  
Type of valve operation Push-rod & rocker-arm  
Cylinder block

INLET see page 4 \*

30 Material of inlet manifold Al-alloy  
31 Diameter of valves 32.0 mm  
32 Max. valve lift 8.5 mm  
33 Type of spring coil  
34 Intake clearance for checking timing  
35 Valves open at  
36 Valves close at with tolerance for tappet clearance  
37 Air filter type Dry  
183 Number of valve springs 4  
185 Number of valves per cylinder 1  
0.15 mm  
55 2.2, 4.0, 5.5

EXHAUST see page 4

195 Material of exhaust manifold Cast-iron  
196 Diameter of valves 29.0  
197 Max. valve lift 8.5 mm  
198 Type of spring coil  
199 Intake clearance for checking timing  
200 Valves open at with tolerance for tappet clearance  
201 Valves close at  
202 Number of valve springs 1  
203 Number of valves per cylinder 1  
0.15 mm  
55 2.2, 4.0, 5.5

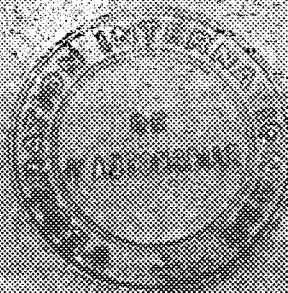
CARBURETION

210 Number of carburetors 1  
211 Make NIKKO  
212 Number of mixture ports 2  
213 Flange hole diameter 26 & 30  
214 Minimum diameter of jets  
D26-30 19 (NIKKO)  
26-30DID 24 (NIKKO)  
26-30DID 23 (NIKKO)  
Down draft  
26-30 (NIKKO)  
26-30DID (NIKKO)

INJECTION

220 Make of pump  
221 Model or type  
222 Location of pump  
223 Minimum diameter of injection pipe

\* for additional information



ENGINE ACCESSORIES

Make a bearing application

Engine Parts

ENGINE AND CAR PERFORMANCES

5, 50

5, 50



DRIVE TRAIN

CLUTCH

Dry plate

No. of plates 1

17

11

17 cm

Hydraulic

GEAR BOX

DAIHATSU ROMEO M.K.

4

Synchronized forward ratios 4 forward 1, 2, 3, 4

Steering column or floor

276 location of gear-shift

Gear	No.	Teeth	Ratio	Alternative manual <del>automatic</del>	
				No.	Teeth
1st	34	37	0.996	31	37
	19	18		22	18
2nd	34	30	1.086	31	31
	19	23		22	22
3rd	34	24	1.357	31	26
	19	29		22	27
4th			1.000		
5th	34	37	4.116	31	37
	19	14		22	14

FINAL DRIVE

Hypoid

Bevel gear

4.212 4.556

3.810 41/9



MODEL NO. KKKO K.K.

Model F40

NOTE: The conformity of the car with the following items of the present recognition form is to be designated during the test when the vehicle has been entered in group 2 (Touring cars) or 3 (Grand Touring cars): 41, 72, 80, 91, 142, 143, 144, 146, 153, 156, 157, 160, 161, 162, 163, 164, 182, 184, 185, 187, 188, 189, 199, 201, 202, 203, 212, 213, 215, 216, 217, 218, 219, 251, 252, 253, and photographs J, M and N.

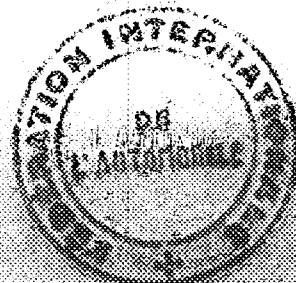
For the touring and grand touring cars entered in group 4 (Sportscars) only the following items of the present recognition form are to be taken into consideration: 1, 2, 3, 9, 20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 148, 149, 150, 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.

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

AXLES

51	Weight (per wheel, without tyre)	5.3 kg
53	<u>Rim diameter</u>	330.2 mm      13 inches
54	<u>Rim width</u>	101.6 mm      4 inches
80	Stabiliser	Torsionbar
OIL PAN		Al-alloy
152	Capacity, lubricant	3.1 litres

LIMITED SLIP DIFFERENTIAL




2-WAY STROKE ENGINES

1	Scavenging system of cylinder				
2	Type of lubrication				
3	Cylinder length measured around cylinder wall	mm		inches	
4	Cylinder diameter	mm	Area	mm <sup>2</sup>	sq. in.
5	Transfer port length measured around cylinder wall	mm		inches	
6	Transfer port diameter	mm	Area	mm <sup>2</sup>	sq. in.
7	Transfer port length measured around cylinder wall	mm		inches	
8	Transfer port diameter	mm	Area	mm <sup>2</sup>	sq. in.
9	Transfer port length measured around cylinder wall	mm		inches	
10	Transfer port diameter	mm	Area	mm <sup>2</sup>	sq. in.
11	Precompression		Precompression cyl	yes no	
12	Stroke	mm	Stroke	mm	inches
13	Transfer port length measured around cylinder wall to greatest point of inlet part	mm		mm	inches
14	Transfer port length measured around cylinder wall to least point of inlet part	mm		mm	inches
15	Transfer port length measured around cylinder wall to greatest point of transfer part	mm		mm	inches
16	Transfer port length measured around cylinder wall to least point of transfer part	mm		mm	inches

17 Supercharging state full details hereafter

JAPAN AUTOMOBILE FEDERATION  
Chairman  
of Technical Subcommission

  
Osamu Hiraio

