



# JAPAN AUTOMOBILE FEDERATION

F. I. A. Recognition No. **547**  
Group **3 G, T,**

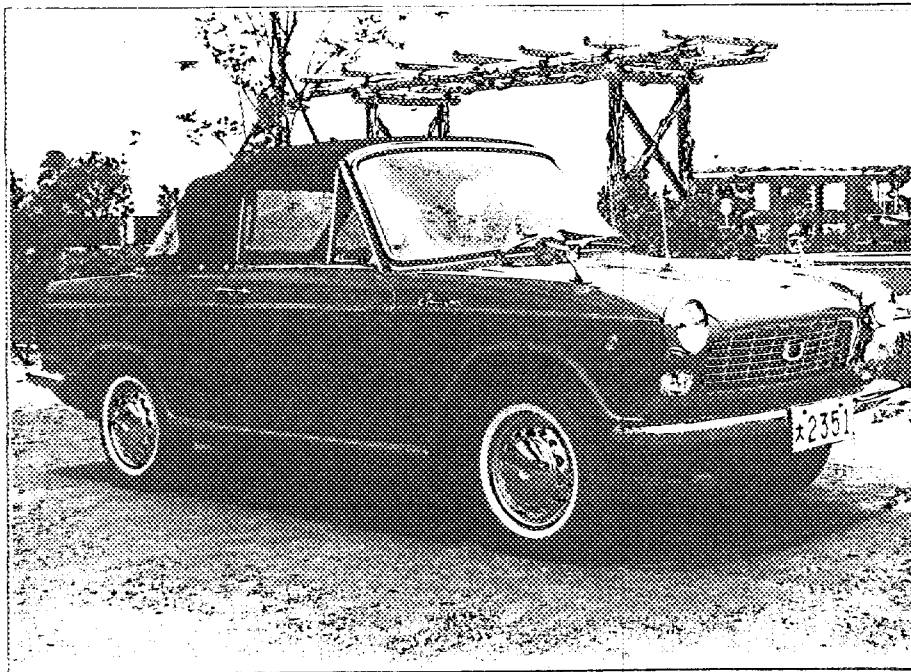
## FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer	DAIHATSU KOGYO K.K.	Cylinder-capacity	958.6 cm <sup>3</sup> 58.50 cu in.
Model	F40K-10001	Model	F40K <b>Compagno Spider</b>
Series	FE -20011	Manufacturer	DAIHATSU KOGYO K.K.
Recognition valid from	<b>1st May 1966</b>	Manufacturer	DAIHATSU KOGYO K.K.
		List	<b>14/4</b>

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				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  
International Sporting Authority

Stamp and signature of the F. I. A.

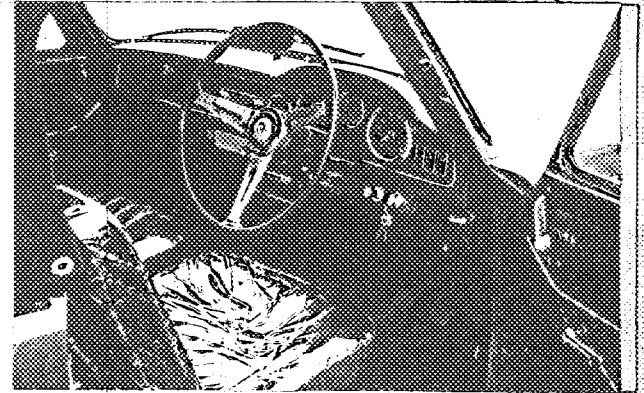
*Robert Chion*

Photograph

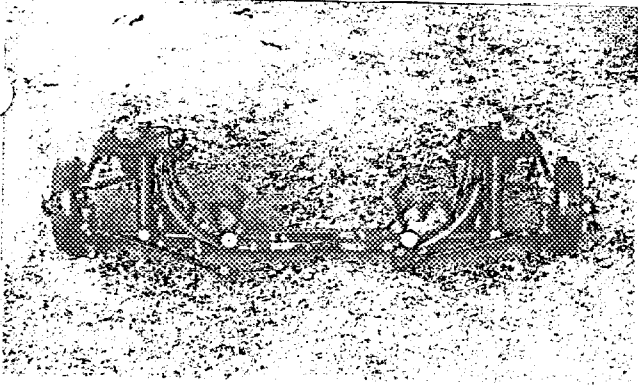
B. 3/4 view of car from rear



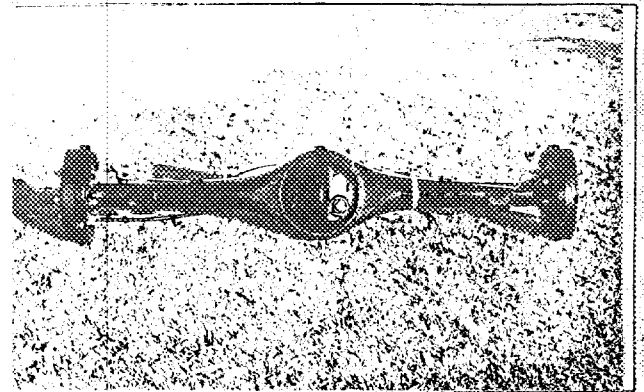
C. Interior view of car through driver's door (open or removed)



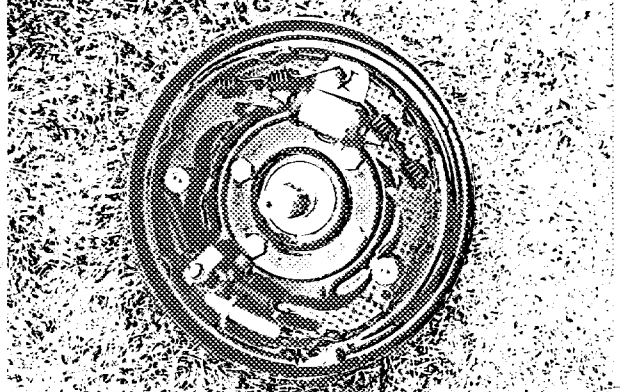
D. Front view of complete front axle from car with all 4 wheels



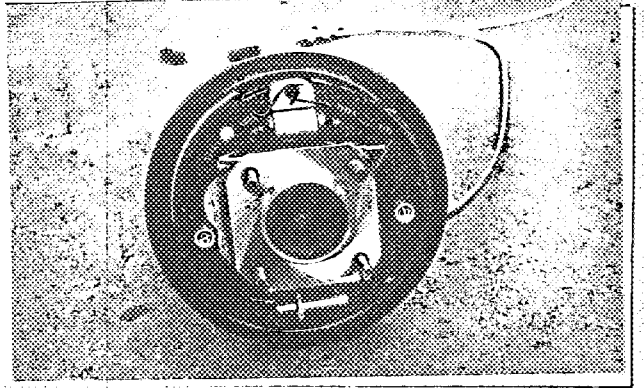
E. Rear axle complete without wheels, removed from car



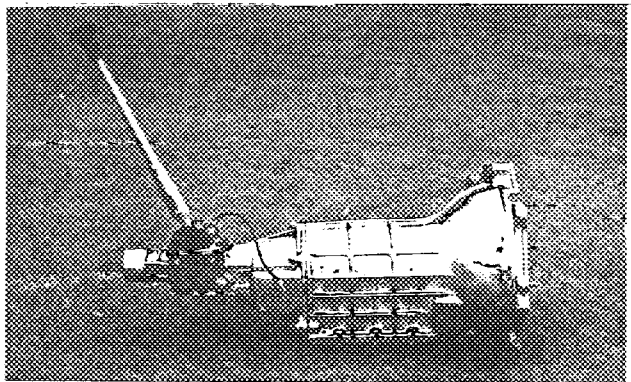
F. Front view of front wheel



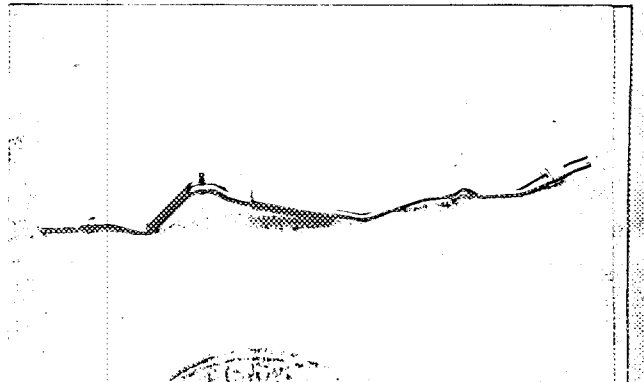
G. Rear brake drum removed



H. 3/4 view from side



I. Lower exhaust pipes after exhaust manifold



DAIHATSU ROOFC R.V.

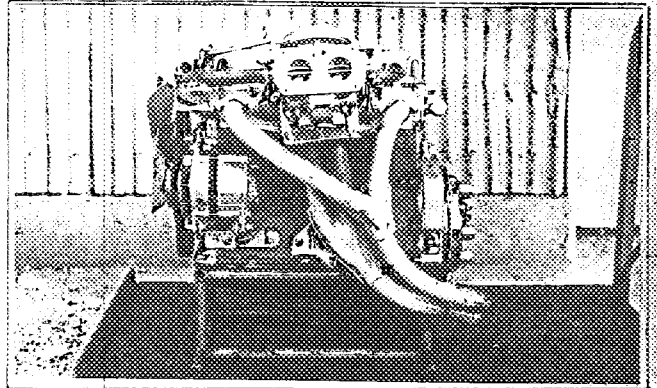
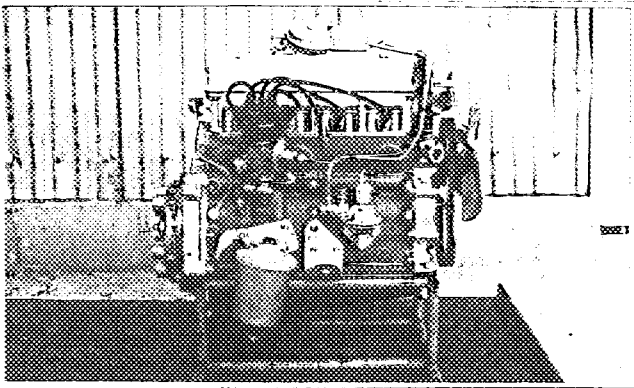
Model F40K

F.I.A. Rec. No.

Photograph

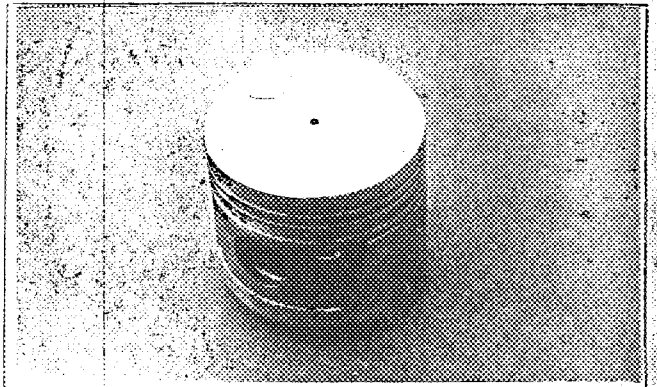
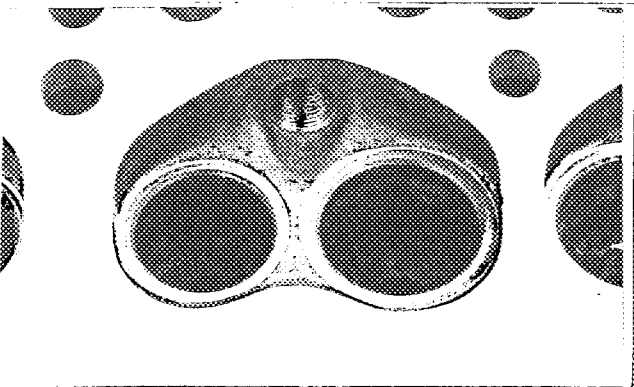
Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter.

K. Engine unit out of car, from right, with clutch and accessories but without gear-box



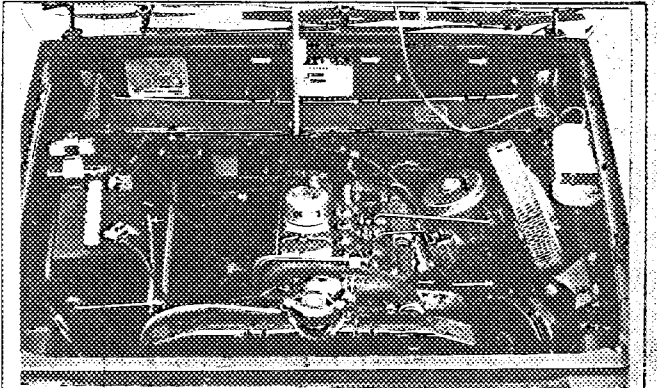
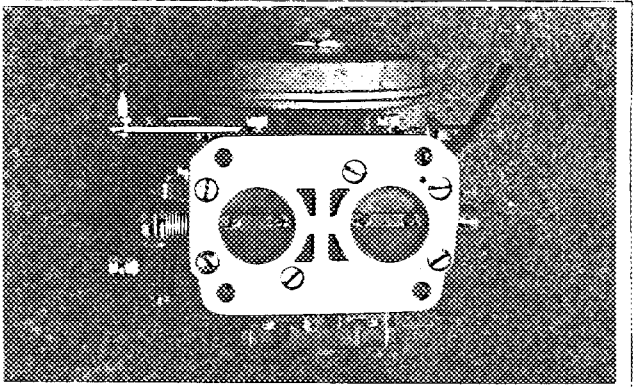
L. Engine unit, from left

M. piston crown



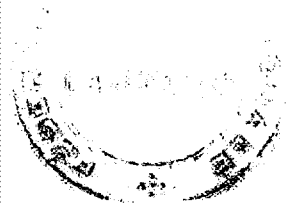
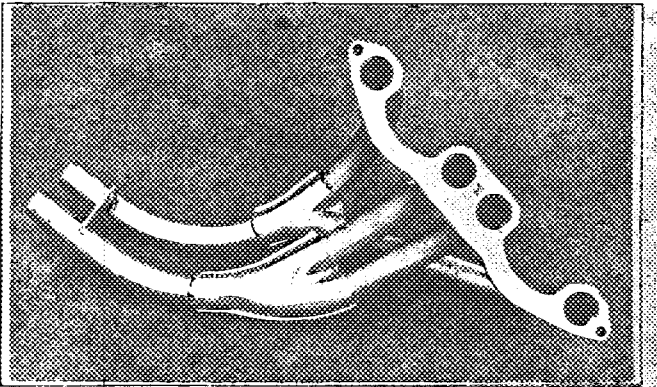
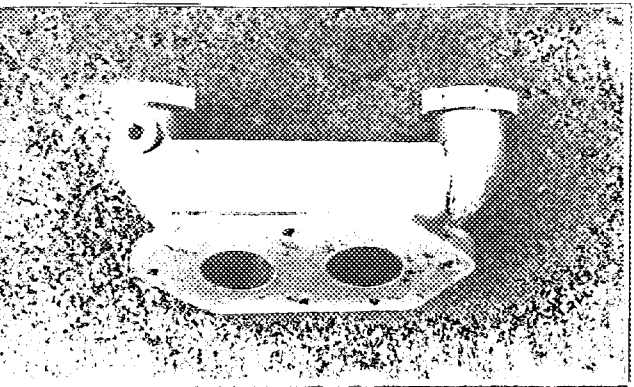
N. Character view from side of manifold

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

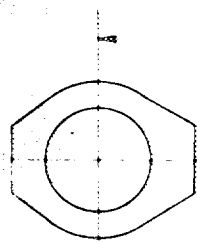


P. Manifold

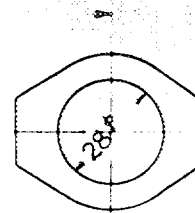
Q. exhaust manifold



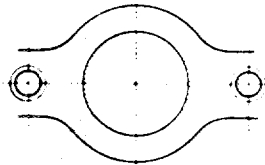
Drawing inlet  
inlet part.  
Indicate scale or  
dimensions and  
manufacturing  
tolerance.



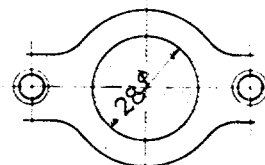
164



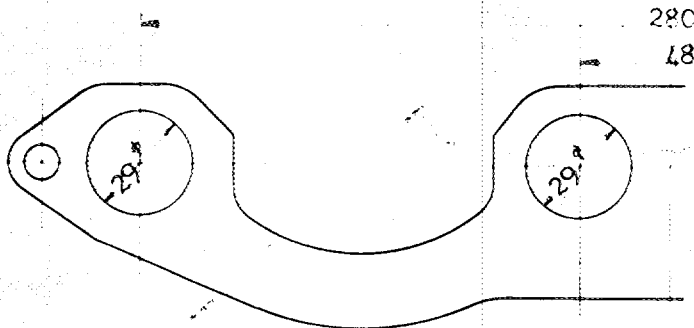
Drawing of inlet  
exhaust part.  
Indicate scale or  
dimensions and  
manufacturing  
tolerance.



164

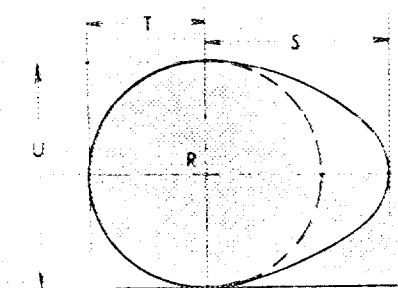
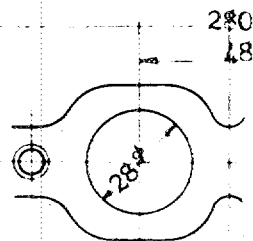
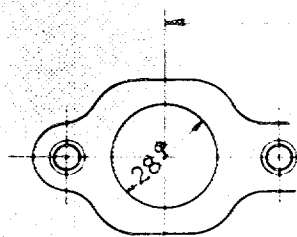


Drawing exhaust  
inlet part.  
Indicate scale or  
dimensions and  
manufacturing  
tolerance.



Tolerance: ±1.2mm  
Dimension: mm

Drawing of exit  
exhaust part  
of camshaft.  
Indicate scale or  
dimensions and  
manufacturing  
tolerance.



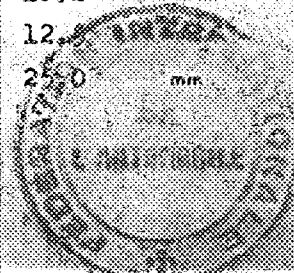
R = centre of  
camshaft.

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



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



CHASSIS AND COACHWORK

Front suspension	Steel
Rear suspension	Steel
Front axle	Steel
Rear axle	Steel
Shock absorbers	Steel
Stabilizer	Steel
Windshield	Vinyl chloride
Windows	Glass
Doors	Glass
Interior trim	Vertical, Manual
Seat upholstery	Vinyl chloride

ACCESSORIES AND UPHOLSTERY

Front seat	Steel	Weight	3.8	kg
Rear seat	Steel	Weight	5.1	kg
Front seat upholstery	Vinyl leather			
Rear seat upholstery	Vinyl leather			

WHEELS

Front wheels	Pressed steel	Weight	4.8	kg
Rear wheels	4.75-inch x 12-inch	Weight	12	kg
Front wheels	10.1.6	Weight	4	kg

STEERING

Steering mechanism	non-circulating ball & nuts		
Steering wheel	Weight	3.5	kg



**SUSPENSION**

70. Front suspension (photo. D), type	Independent, wishbone
71. Type of spring	Torsion bar
72. Stabiliser (if fitted)	Torsion bar
73. Number of shock absorbers	2
74. Type	Hydraulic, telescopic
78. Rear suspension (photo. E), type	Rigid axle case
79. Type of spring	Semi-elliptic leaf spring
80. Stabiliser (if fitted)	Torsion bar
81. Number of shock absorbers	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

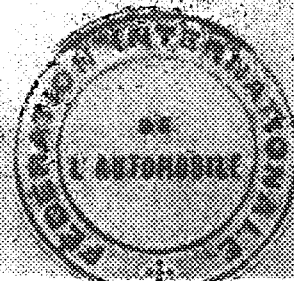
	FRONT		REAR	
93. Number of cylinders per wheel	1		1	
94. Bore of wheel cylinder (s)	mm	3/4 in.	mm	5/8 in.

**Drum brakes**

95. Inside diameter	203.2 mm	in.	203.2 mm	in.
96. Length of brake linings	177 mm	in.	177 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 mm <sup>2</sup>	sq. in.	13566 mm <sup>2</sup>	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 <sup>2</sup>	sq. in.	mm <sup>2</sup>	sq. in.



Make **DAIHATSU KOGYO K.K.**

Model **F40K**

F.I.A. Ref. No.

**ENGINE** photographs J and K.

130	Cycle	4	131	Number of cylinders	4	
132	Cylinder arrangement	In line				
133	Bore	68 mm	134	Stroke	66 mm	2.60 in.
135	Capacity per cylinder	239.7	cm <sup>3</sup>		14.6	cu. in.
136	Total cylinder-capacity	958.6	cm <sup>3</sup>		58.5	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	2	141	Number of exhaust ports	4	
142	Compression ratio	9.5				
143	Volume of one combustion chamber	25.5	cm <sup>3</sup>			cu. in.
144	Exhaust 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 material	<del>Cast iron</del>	148	Type of crankshaft	integral	*
149	Number of crankshaft main bearings	3				
150	Material of bearing cap	Cast iron				
151	System of lubrication	<del>oil in sump</del>				
152	Capacity, lubricant	2.8	litrs			quarts US
153	Oil cooler	<del>no</del>		154	Method of engine cooling	Water cooling
155	Capacity of cooling system	4.3	litrs			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**

- 170. Number of cylinders 1
- 171. Type of combustion cycle Cylinder block
- 172. Type of combustion valve Gear
- 173. Type of valve operation Push-rod & rocker-arm

**INLET** see page 4 \*

- 180. Material of cylinder block Al-alloy
- 181. Diameter of bore 32.0 mm 1.25 inches
- 182. Max. valve lift 9.5 mm 0.37 inches
- 183. Number of valve springs 1
- 184. Type of spring Coil
- 185. Number of valves per cylinder 1
- 186. Diameter of valve for checking timing 0.15 mm inches
- 187. Valve clearance with tappet for tappet clearance unadjusted 25 B.T.D.C.  $\pm$  5
- 188. Valve clearance with tappet for tappet clearance unadjusted 65 A.B.D.C.  $\pm$  5
- 189. Lubrication system Dry

**EXHAUST** see page 4

- 190. Material of exhaust pipe Steel pipe
- 191. Diameter of pipe 29.0 mm 1.14 inches
- 192. Max. valve lift 9.5 mm 0.37 inches
- 193. Number of valve springs 1
- 194. Type of spring Coil
- 195. Number of valves per cylinder 1
- 196. Diameter of valve for checking timing 0.15 mm inches
- 197. Valve clearance with tappet for tappet clearance unadjusted 65 B.B.D.C.  $\pm$  5
- 198. Valve clearance with tappet for tappet clearance unadjusted 25 A.T.D.C.  $\pm$  5

**CARBURETION** see page 14

- 201. Number of carburetors fitted 1
- 202. Make MIKUNI
- 203. Type Horizontal draft
- 204. Number of mixture passages per carburetor 2
- 205. Model BSW 36
- 206. Flange hole diameter of exit ports of carburetor 36 mm inches
- 207. ~~30~~ minimum diam. with pilot at maximum height 30 mm inches

**INJECTION** see page 14

- 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

24 Fuel pump mechanism and <del>valves</del>	25 Oil pump	1
26 Ignition system <b>Make &amp; break ignition</b>	27 Ignition distributor	1
28 Ignition coils 1	29 No. of spark plugs per cylinder	1
30 Ignition type <del>valves</del> alternator number fitted 1	31 Method of drive	V-belt
32 Voltage generator 12	33 Battery number	1
34 Location Engine room		
35 Voltage of battery 12		

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

Maximum speed 65 km/h	Maximum torque JIS	6,500 rpm
Maximum speed 6,200	Maximum torque	64.5 PS
Maximum torque 7.8 kgm	4,500 rpm	
Maximum power of the car 145	km/hour	miles hour



DRIVE TRAIN

CLUTCH

Dry plate

17

11

Hydraulic

1

17

GEAR BOX

DAIHATSU KOGYO K.K.

4

4 forward 1,2,3,4

Floor

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

FINAL DRIVE

Hypoid

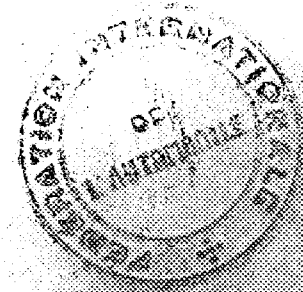
Bevel gear

4.222

4.556

38/9

41/9



DECLARACION: The conformity of the car with the following items of the present recognition form are:

1. 1964 - 201, 202, 203, 212, 213, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

Material of rear window Glass  
 Material of rear quarter light Glass

Weight (per wheel without tyre) 5.3 kg  
 Wheel diameter 330.2 mm 13 inches  
 Wheel width 161.6 mm 4 inches  
 OIL PAN Al-alloy  
 152 Capacity, lubricant 3.1 ltrs

LIMITED SLIP DIFFERENTIAL



WATER PUMP ENGINES

Supercharging

Supercharging

Supercharging (measured around cylinder wall)

mm

inches

Supercharging (measured around cylinder wall)

mm

in 304 Area

mm<sup>2</sup>

sq. in.

Supercharging (measured around cylinder wall)

mm

inches

Supercharging (measured around cylinder wall)

mm

in 307 Area

mm<sup>2</sup>

sq. in.

Supercharging (measured around cylinder wall)

mm

inches

Supercharging (measured around cylinder wall)

mm

in 310 Area

mm<sup>2</sup>

sq. in.

Supercharging (measured around cylinder wall)

mm

inches

Supercharging (measured around cylinder wall)

mm

in 311 Area

mm<sup>2</sup>

sq. in.

Precompression cyl.

315 Precompression cyl. yes/no

Stroke (measured from lowest point of inlet port)

inches

317 Stroke

mm

inches

Stroke (measured from highest point of exhaust port)

mm

inches

Stroke (measured from lowest point of inlet port)

mm

inches

Stroke (measured from highest point of transfer port)

mm

inches

Stroke (measured from lowest point of inlet port)

Supercharging state (to be filled in hereafter)

JAPAN AUTOMOBILE FEDERATION

Secretary

Technical Subcommission

Handwritten signature of Osamu Hirao

Osamu Hirao

