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# JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

JAF公認番号 T-176  
 グループ ワーリーニター  
 発効年月日 71-6月 7日  
 F. I. A. Recognition No. 5344  
 Group

## FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

国際スポーツ法典付則J項及びJAF国内競技車両規則に従った公認書式。

Manufacturer 製造会社名	Mitsubishi Motors Corporation	Cylinder-capacity 総排気量	Reciprocation 1597 cm <sup>3</sup> 97.5 cu.in. レシプロ	Model 型式及び通称名	A53 C (Colt Galant GTO)
Serial No of chassis 製造開始シャシー番号	A53C-0000001	Manufacturer	Mitsubishi Motors Corporation		
Serial No of engine 製造開始エンジン番号	4G32-00001	Manufacturer	Mitsubishi Motors Corporation		
Recognition is valid from		List			

The manufacturing of the model described in this recognition form was started on Aug. 1970 and the minimum production of 5000 identical cars, in accordance with the specifications of this form was reached on Mar. 1971

Photograph A, 3/4 view of car from front 写真A、全体写真(斜め前方)



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 JAF

JAF公認印及び署名

*難波清治*  
 Yasuharu Nanba

Stamp and signature of the F. I. A.

Make **Mitsubishi**

Model **A53 C**  
型式

J.A.F.公認番号 **T-176**  
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 conversion table hereafter.

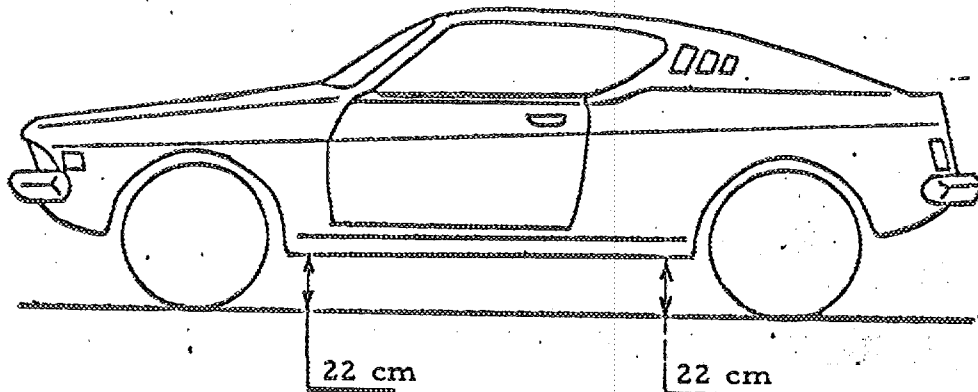
**CAPACITIES AND DIMENSIONS**  
仕様諸元

1. <u>Wheelbase</u> ホイールベース	242	cm	95.3	inches
2. <u>Front track</u> トレッド(前)	129	cm	50.6	inches *
3. <u>Rear track</u> トレッド(後)	129	cm	50.6	inches *
4. Overall length of the car 全長	412.5	cm	162.3	inches
5. Overall width of the car 全幅	158	cm	62.2	inches
6. Overall height of the car 全高	133	cm	52.2	inches
7. Capacity of fuel tank (reserve included) 燃料タンク容量	11.9	Gallon US	45	ltrs Gallon Imp.
8. Seating capacity 定員	5			
9. <u>Weight, total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:</u> 車両重量(冷却水、オイル、スペアタイヤを含む標準状態の車両重量、但し燃料、車載工具を除く)	865	kg	1909	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 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.



Width of the car measured in the vertical plane passing through the axle of the wheels.

車軸上の車体幅	Front フロント	155	cm	Rear リア	158	cm
---------	---------------	-----	----	------------	-----	----

**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 carre	--	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 / livres (lb)	--	453.593	gr.	1 hundred weight (cwt)	--	50.802	kg

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CHASSIS AND COACHWORK (Photographs A, B and C)

- 20. Chassis/body construction : ~~Separate~~ / unitary construction  
シャーシー/ボディーの構造 ~~別装~~ / 一体構造
- 21. Unitary construction, material (s) **Steel**  
一体構造の場合その材質
- 22. Separate constructions: material (s) of chassis  
セパレート構造の場合その材質
- 23. Material (s) of coachwork  
ボディーの材質
- 24. Number of doors **2** Material-(s) **Steel**  
ドアの数 材質
- 25. Material (s) of bonnet **Steel**  
ボンネットの材質
- 26. Material (s) of boot lid **Steel**  
トランクリッドの材質
- 27. Material (s) of rear-window **Glass**  
リアウインドシールドの材質
- 28. Material (s) of windscreen **Glass**  
フロントウインドシールドの材質
- 29. Material (s) of front-door windows **Glass**  
フロントドアウインドーの材質
- 30. Material (s) of rear-door windows  
リアドアウインドーの材質
- 31. Sliding system of door windows **Vertical, manual**  
ドアウインドーの開閉方式
- 32. Material (s) of rear-quarter light **Glass**  
リアクォーターウインドーの材質

ACCESSORIES AND UPHOLSTERY  
アクセサリ

- 38. Interior heating : Yes - ~~XX~~
- 39. Air-conditioning : ~~XX~~ - no
- 40. Ventilation : yes - ~~XX~~
- 41. Front seats, type of seats and upholstery **Separate, vinyl**
- 42. Weight of front seat (s), complete with supports and rails, out of the car :  
15 x 2 kg lbs
- 43. Rear seats, type of seats and upholstery **Bench, vinyl**
- 44. Front bumper, material (s) **Steel** Weight **5.5 kg** lbs  
フロントバンパーの材質 重量
- 45. Rear bumper, material (s) **Steel** Weight **4.5 kg** lbs  
リアバンパーの材質 重量

WHEELS  
ホイール

- 50. Type **Pressed steel**
- 51. Weight (per wheel, without tyre) **6.5 kg** lbs  
重量
- 52. Method of attachment **4 Nuts**
- 53. Rim diameter **330 mm** **13 inches**
- 54. Rim width **114 mm** **4.5 inches**

STEERING  
ステアリング

- 60. Type **Recirculating ball**
- 61. Servo-assistance : ~~yes~~ - no  
パワーステアリング ~~有~~ - 無
- 62. Number of turns of steering wheel from lock to lock **3.5**  
ロックフリーロック
- 63. In case of servo-assistance

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SUSPENSION  
サスペンション

- 70. Front suspension (photogr. D), type **McPherson**  
フロントサスペンションの形式
- 71. Type of spring **Coil**  
スプリングの種類
- 72. Stabiliser (if fitted) **Torsion bar**
- 73. Number of shock absorbers **2**      74. Type **Hydraulic, telescopic**  
ショックアブソーバーの数      形式
- 78. Rear suspension (photogr. E), type **Rigid**  
リヤサスペンションの形式
- 79. Type of spring **Leaf**  
スプリングの種類
- 80. Stabiliser (if fitted)
- 81. Number of shock absorbers **2**      82. Type **Hydraulic, telescopic**  
ショックアブソーバーの数      形式

BRAKES (photographs F and G)  
ブレーキ

- 90. System **Hydraulic**  
作動方式
- 91. Servo-assistance (if fitted), type **Vacuum**  
サーボシステムの形式
- 92. Number of hydraulic master cylinders **1**  
マスターシリンダーの数

	FRONT フロント		REAR リヤ	
93. Number of cylinders per wheel ホイール当りのシリンダー数	2		1	
94. Bore of wheel cylinder (s) ホイールシリンダーの内径	48.1	mm	19.0	mm
<b>Drum Brakes</b> ドラムブレーキ				
95. Inside diameter ドラムの内径		mm	228	mm
96. Length of brake linings ライニングの長さ		mm	220	mm
97. Width of brake linings ライニングの幅		mm	35	mm
98. Number of shoes per brake ブレーキ当りのシューの数			2	
99. Total area per brake 1ブレーキ当りの総摩擦面積		mm <sup>2</sup>	15400	mm <sup>2</sup>
<b>Disc brakes</b> ディスクブレーキ				
100. Outside diameter ディスクの外径	239	mm		mm
101. Thickness of disc ディスクの厚さ	10	mm		mm
102. Length of brake linings パッドの長さ	46	mm		mm
103. Width of brake linings パッドの幅	61	mm		mm
104. Number of pads per brake ブレーキ当りのパッドの数			2	
105. Total area per brake 1ブレーキ当りの総摩擦面積	5600	mm <sup>2</sup>		mm <sup>2</sup>

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ENGINE (photographs J and K) \*\*

130. Cycle	4	131. Number of cylinders	4		
サイクル サイクル		シリンダー数			
132. Cylinder arrangement	In line				
シリンダー配列					
133. Bore	77 mm	3.03 in.	134. Stroke	86 mm	3.39 in.
ボア			ストローク		
135. Capacity per cylinder		399 cm <sup>3</sup>		24.35 cu. in.	
シリンダーの排気量					
136. Total cylinder capacity		1597 cm <sup>3</sup>		97.46 cu. in.	
総排気量					
137. Material (s) of cylinder block	Cast-iron				
シリンダーブロックの材質					
138. Material (s) of sleeves (if fitted)					
スリーブの材質					
139. Cylinder-head, material (s)	Al-alloy		Number fitted	1	
シリンダーヘッドの材質			数		
140. Number of inlet ports	4	141. Number of exhaust ports	4		
吸気孔の数		排気孔の数			
142. Compression ratio	8.5				
143. Volume of one combustion chamber		53.2 cm <sup>3</sup>		cu. in.	
144. Piston material	Al-alloy	145. Number of rings	3		
ピストンの材質		リングの数			
146. Distance from gudgeon pin centre line to highest point of piston crown	34 mm			inches	
147. Crankshaft : <del>cast iron</del> / stamped		148. Type of crankshaft : integral /			
クランクシャフト : <del>鋳造</del> / 鍛造		クランクシャフトの形式 : 一体式 /			
149. Number of crankshaft main bearings	5				
メインベアリングの数					
150. Material of bearing cap	Cast-iron				
ベアリングキャップの材質					
151. System of lubrication : <del>dry sump</del> / oil in sump					
潤滑方式 : <del>ドライサンプ</del> / ウェットサンプ					
152. Capacity, lubricant	4.0 ltrs			pts	
潤滑油量				quarts US	
153. Oil cooler : <del>yes</del> / no		154. Method of engine cooling	Water		
オイルクーラー : <del>有</del> / 無		エンジン冷却方式			
155. Capacity of cooling system	6.0 ltrs			pints	
				quarts US	
156. Cooling fan (if fitted), dia.	320 mm			inches	
157. Number of blades of cooling fan	4				
<b>Bearings **</b>					
158. Crankshaft main, type	Plain	Dia.	57 mm	in.	
メインベアリングの形式		内径			
159. Connecting rod big end,	Plain	Dia.	45 mm	in.	
コンロッド大端部ベアリングの形式		内径			
<b>Weights **</b>					
160. Flywheel (clean)	7.5 kg			lbs	
161. Flywheel with clutch (all turning parts)		12.3 kg		lbs	
162. Crankshaft	12.8 kg	lbs	163. Connecting rod	0.63 kg	
				lbs	
164. Piston with rings and pin	0.40 kg			lbs	

\*\* for additional information concerning Wankel rotary engines see page 15, 16  
ロータリーエンジンは15、16頁参照

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**FOUR STROKE ENGINES \*, \*\***

4サイクルエンジン

- 170. Number of camshafts 1  
カムシャフトの数
- 172. Type of camshaft drive Chain  
カムシャフトの駆動方式
- 173. Type of valve operation Rocker arm  
バルブの作動方式

171. Location of camshaft position Cylinder head

**INLET (see page 8) \*, \*\***

吸気系

- 180. Material(s) of inlet manifold Al-alloy  
マニホールドの材質
- 181. Diameter of valves 38 mm  
バルブの径
- 182. Max. valve lift 10 mm 0.37  
バルブリフト
- 184. Type of spring Coil  
バルブスプリングの種類
- 186. Tappet clearance for checking timing (cold)
- 187. Valves open at (with tolerance for tappet clearance indicated)
- 188. Valves close at (with tolerance for tappet clearance indicated)
- 189. Air filter, type Dry

- 183. Number of valve springs 1  
バルブスプリングの数
- 185. Number of valves per cylinder 1  
シリンダー当りのバルブの数
- 0.07 mm
- B. T. D. C 32° ± 7°
- A. B. D. C 60° ± 7°

inches  
inches

**EXHAUST (see page 8) \*, \*\***

排気系

- 195. Material(s) of exhaust manifold Cast-iron  
マニホールドの材質
- 196. Diameter of valves 31 mm  
バルブの径
- 197. Max. valve lift 10 mm 0.37 in.  
バルブリフト
- 199. Type of spring Coil  
バルブスプリングの種類
- 201. Tappet clearance for checking timing (cold)
- 202. Valves open at (with tolerance for tappet clearance indicated)
- 203. Valves close at (with tolerance for tappet clearance indicated)

- 1.22 inches
- 198. Number of valve springs 1  
バルブスプリングの数
- 200. Number of valves per cylinder 1  
シリンダー当りのバルブ数
- 0.17 mm
- B. B. D. C 63° ± 7°
- A. T. D. C 29° ± 7°

inches

**CARBURETION (photograph N)**

気化器

- 210. Number of carburetors fitted 1  
キャブレターの数
- 212. Make MIKUNI  
製造会社
- 214. Number of mixture passages per carburettor 2  
キャブレター当りのバルブ数
- 215. Flange hole diameter of exit port(s) of carburettor 28 & 32 mm  
キャブレター出口内径
- 216. Minimum dimensions of mixture passage(s) 21 & 27 mm  
ベンチレーの最小寸法 (SUなどはピストン最上部で測定)

- 211. Type Down - draft  
形式
- 213. Model 28 - 32 DSDA  
型式

in.

**INJECTION (if fitted)**

燃料噴射

- 220. Make of pump  
ポンプの製造会社
- 222. Model or type of pump  
ポンプの型式
- 224. Location of injectors  
ノズルの位置
- 225. Minimum diameter of inlet pipe  
吸気管の最小径

- 221. Number of plungers  
プランジャーの数
- 223. Total number of injectors  
ノズルの総数

inches

\* ) for additional information concerning two-stroke engines and super-charged engines see page 14.  
2サイクルエンジン、過給機付エンジンは14頁参照

\* \* ) for additional information concerning Wankel rotary engines see page 15, 16.  
ロータリーエンジンは15, 16頁、参照

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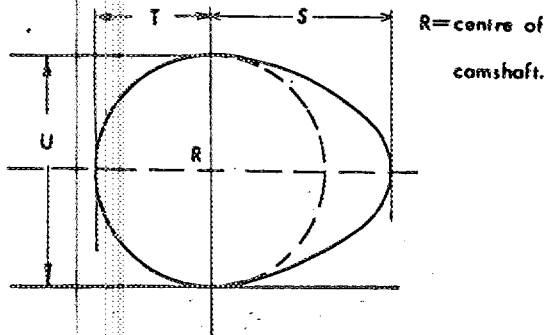
ENGINE ACCESSORIES

- |  |   |
|--|---|
| 230. Fuel pump : mechanical and / <del>DEXELCOK</del><br>燃料ポンプ 機械式/DCXK          | 231. No. fitted 1<br>ポンプの数  |
| 232. Type of ignition system Make and break<br>点火方式                              | 233. No. of distributors 1<br>ディストリビューターの数  |
| 234. No. of ignition coils 1<br>コイルの数  | 235. No. of spark plugs per cylinder/ <del>3320</del><br>シリンダー当りのプラグ数 <del>DCXK3320</del> 1 |
| 236. Generator, type: <del>dyno</del> /alternator-number fitted 1<br>発電機 直流/交流 数 | 237. Method of drive<br>駆動方式 V-Belt   |
| 238. Voltage of generator 12 volts   | 239. Battery, number 1<br>バッテリーの数   |
| 240. Location Engine room<br>バッテリー位置   |   |
| 241. Voltage of battery 12 volts<br>バッテリー電圧                                      |   |

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

- |   |
|---|
| 250. Max. engine output 100 PS (type of horsepower: JIS ) at 6300 rpm |
| 251. Maximum rpm 6500 output at that figure 99 PS                     |
| 252. Maximum torque 14.0 kg. m at 4000 rpm                            |
| 253. Maximum speed of the car 170 km/hour miles / hour                |

255. Cam profile  
カムプロフィール



Inlet cam

吸気カム				
S =	21.0	mm	0.83	inches
T =	15.5	mm	0.61	inches
U =	31.0	mm	1.22	inches

Exhaust cam

排気カム				
S =	21.1	mm	0.83	inches
T =	15.5	mm	0.61	inches
U =	31.1	mm	1.22	inches

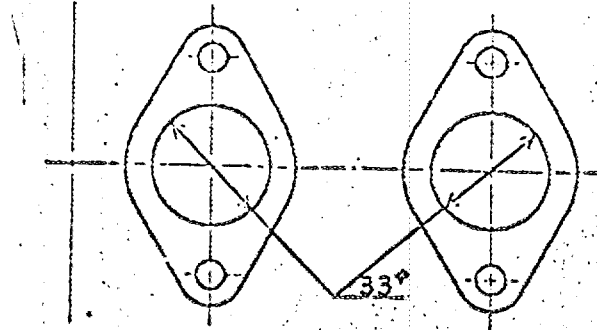
Make Mitsubishi

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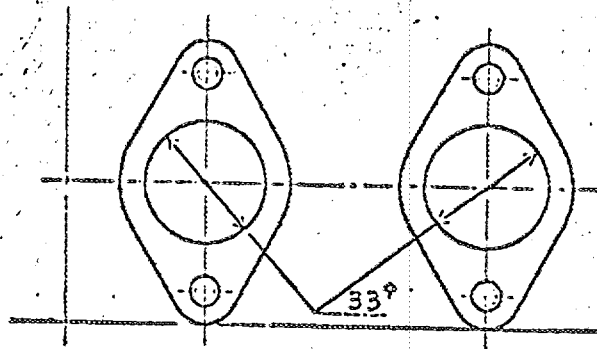
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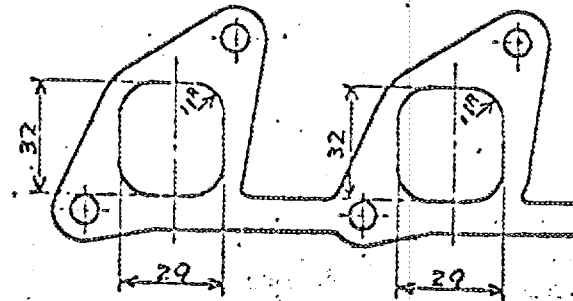
Drawing inlet manifold ports, side of cylinder-head/bossing, scale or dimensions and manufacturing tolerance.



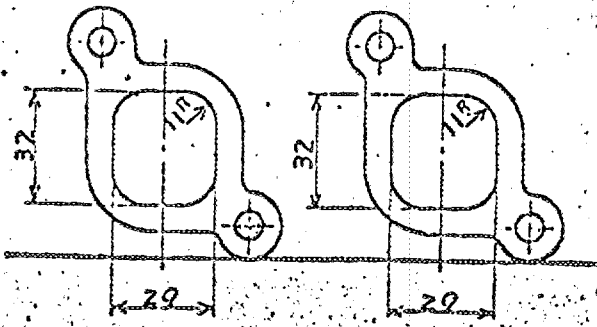
Drawing of entrance to inlet port of cylinder-head/bossing, scale or dimensions and manufacturing tolerance.



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



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



Unit: mm  
Tolerance:  $\pm 0.5$



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**DRIVE TRAIN**  
駆動系

**CLUTCH**  
クラッチ

260. Type of clutch Dry plate  
形式
262. Dia. of clutch plates 202 mm inches  
プレッシャープレートの外径
263. Dia. of linings, inside 140 mm in.  
フェーシングの内径
264. Method of operating clutch Mechanical  
作動方式

261. No. of plates 1  
プレッシャープレートの数
- outside 200 mm in.  
外径

**GEAR BOX (photograph H)**  
トランスミッション

270. Manual type, make Mitsubishi  
手動式の製造会社名
271. Nb. of gear-box ratios forward 4  
前進段数
273. Location of gear-shift Floor  
シフトレバーの位置
274. Automatic, make  
自動式の製造会社名
275. Nb. of forward ratios  
前進段数

- Method of operation Mechanical  
作動方式
272. Synchronized forward ratios 1, 2, 3 & 4

- type  
形式
276. Location of gear-shift  
シフトレバーの位置

277.	Manual 手動		Automatic 自動		Alternative manual / 手動 / 自動			
	Ratio ギヤ比	No. teeth 歯数	Ratio ギヤ比	No. teeth 歯数	Ratio ギヤ比	No. teeth 歯数	Ratio ギヤ比	No. teeth 歯数
1	3.53	$\frac{29}{17} \times \frac{31}{15}$			3.22	$\frac{28}{18} \times \frac{31}{15}$		
2	2.19	$\frac{29}{17} \times \frac{27}{21}$			2.00	$\frac{28}{18} \times \frac{27}{21}$		
3	1.44	$\frac{29}{17} \times \frac{22}{26}$			1.43	$\frac{28}{18} \times \frac{23}{25}$		
4	1.00				1.00			
5								
6								
reverse リバース	3.87	$\frac{29}{17} \times \frac{15}{15} \times \frac{34}{15}$			3.53	$\frac{28}{18} \times \frac{15}{15} \times \frac{34}{15}$		

278. Overdrive, type  
オーバードライブ形式
279. Forward gears on which overdrive can be selected  
オーバードライブの作動段数
280. Overdrive ratio  
オーバードライブ比

**FINAL DRIVE**  
ファイナル

290. Type of final drive Hypoid gear  
形式
291. Type of differential Bevel gear  
差動機形式
292. Type of limited slip differential (if fitted)  
リミテッドスリップデフの形式
293. Final drive ratio 3.89 4.22  
ギヤ比
- Number of teeth 35/9 38/9  
歯数

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TR

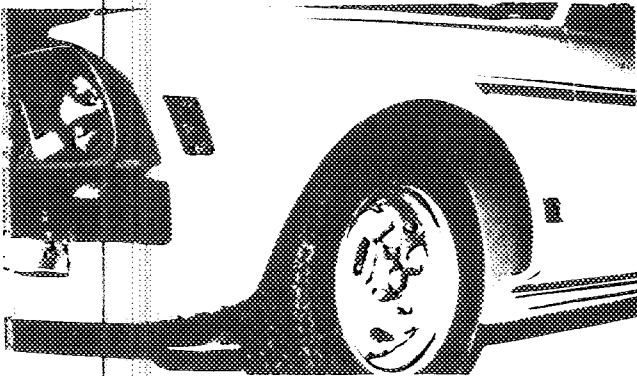
J-A-P-2255  
F.I.A. Rec. No.

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

Wing extensions ( NOT VARID FOR GROUP 1 ONLY)

Photograph



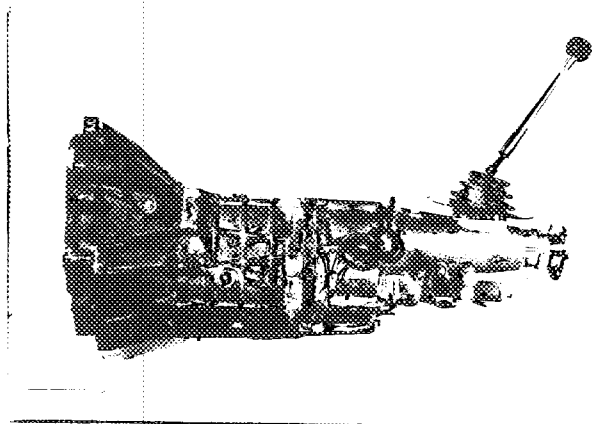
Parts No. F 0526321  
R 0526321RG

Transmission (NOT VARID FOR GROUP 1 ONLY)

271 No. of gear-box ratio forward 5  
272 Synchronized forward ratio 1. 2. 3. 4. & 5

277	Manual	
	Ratio	No. Teeth
1	3.20	$\frac{31}{20} \times \frac{33}{16}$
2	2.04	$\frac{31}{20} \times \frac{29}{22}$
3	1.27	$\frac{31}{20} \times \frac{23}{28}$
4	1.00	
5	0.85	$\frac{31}{20} \times \frac{18}{33}$
6		
Reverse	3.72	$\frac{31}{20} \times \frac{16}{15} \times \frac{36}{10}$

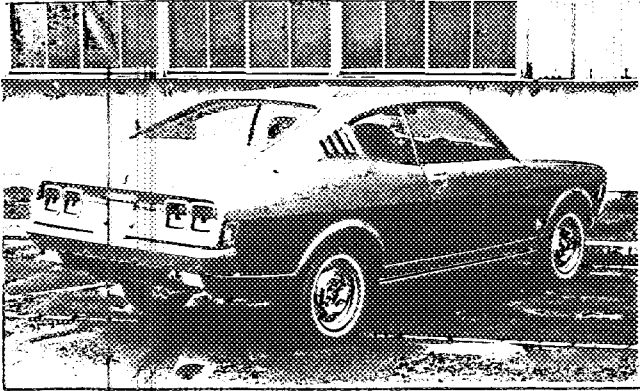
Photo H gear box view from side



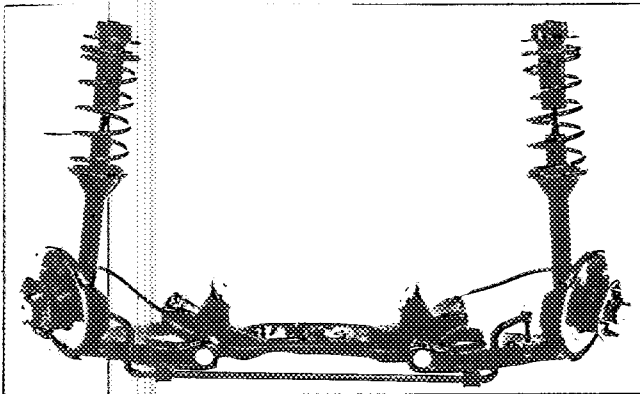
Parts No. MD702300

Photograph

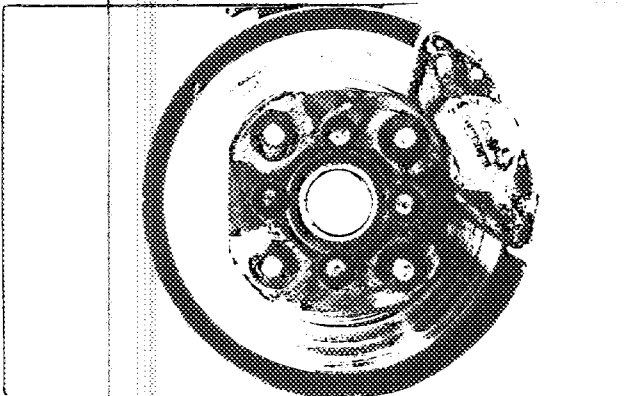
B, 3/4 view of car from rear 全体写真 (斜め後方)



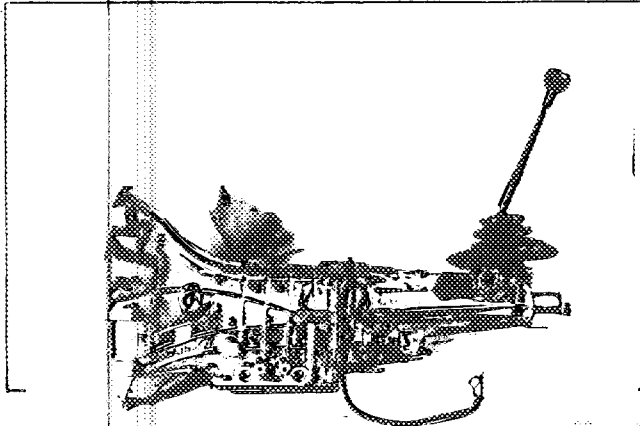
D, Front axle complete, removed from car. Without wheels.  
フロントサスペンション



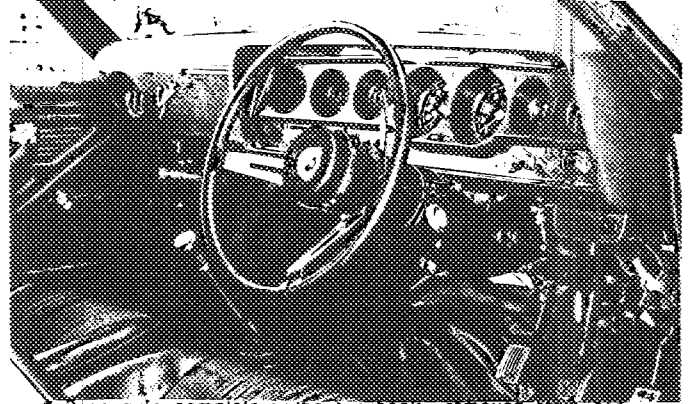
F, Front brake, drum removed or disc with calipers!  
フロントブレーキ



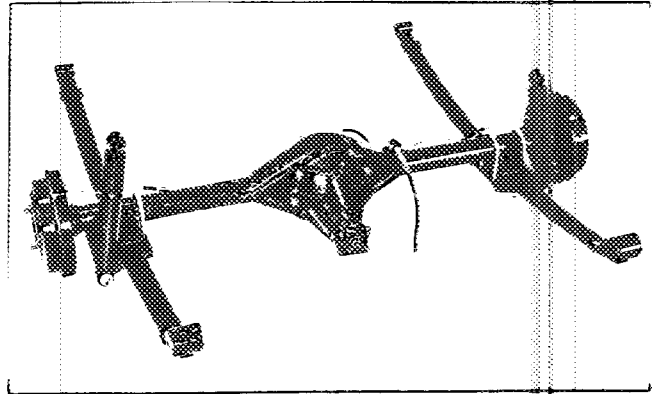
H, Gear-box, view from side トランスミッション



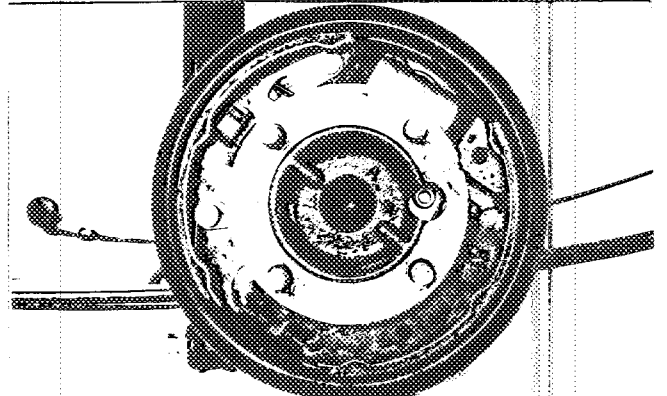
C, Interior view of car through driver's door (open or removed) with dashboard 運転席附近



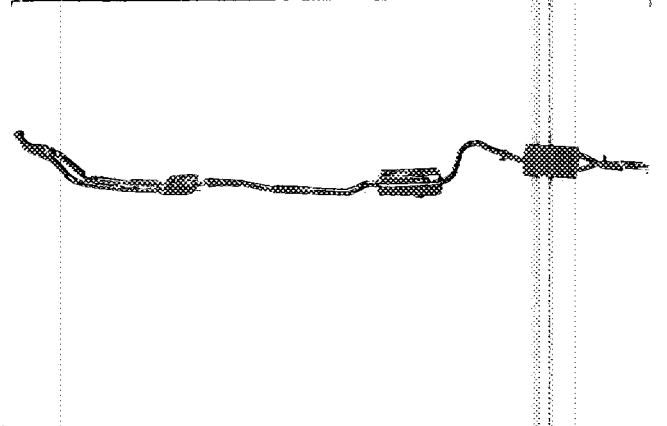
E, Rear axle complete without wheels, removed from car.  
リヤサスペンション



G, Rear brake, drum removed or disc with calipers!  
リヤブレーキ

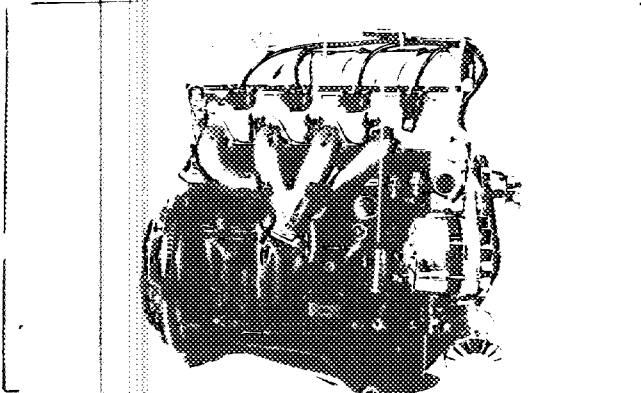


I, Silencer + exhaust pipes after exhaust manifold 排気系

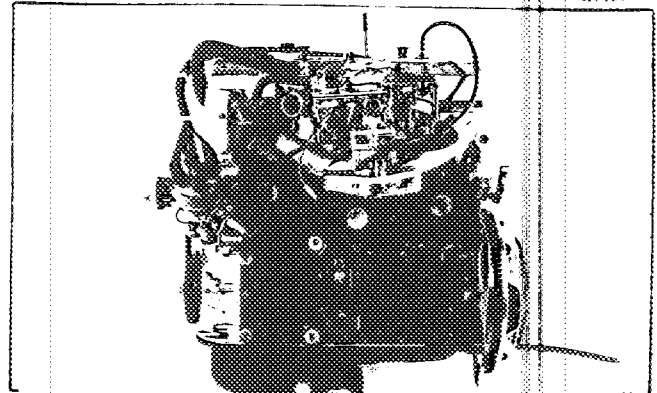


Photograph

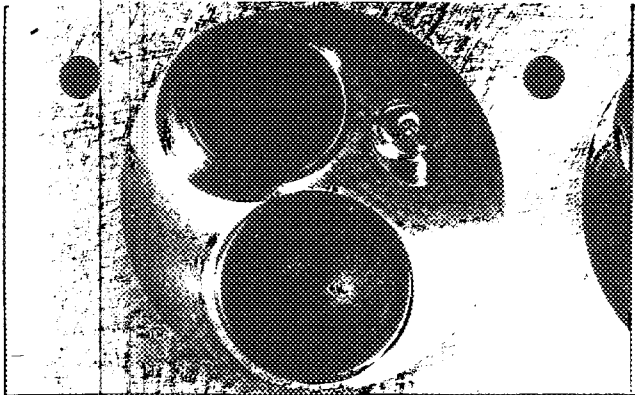
J, Engine unit out of car, from right. With clutch and accessories but without air filter nor gear-box. エンジン右側面



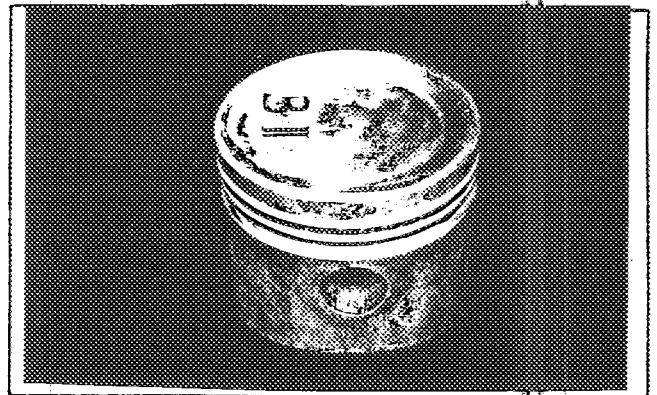
K, Engine unit out of car, from left. With clutch and accessories but without gear-box nor air filter. エンジン左側面



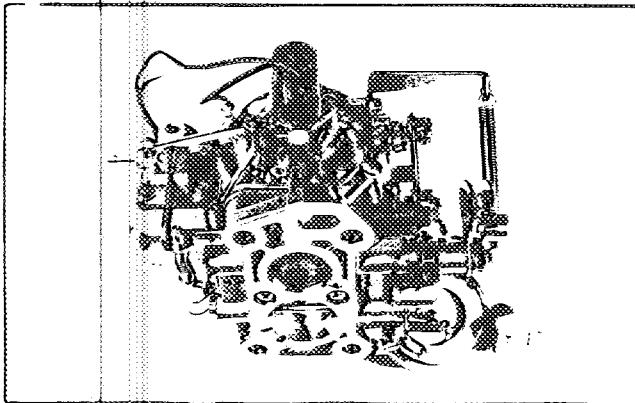
L, Combustion chamber 燃焼室 / Rotaxboxsing KXCKXCKXCKXCKXCKX



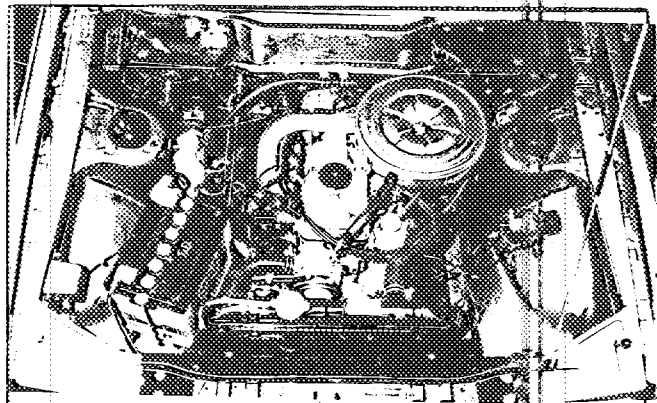
M, Piston crown ピストンクラウン / Rotaxboxsing KXCKXCKXCKXCKXCKX



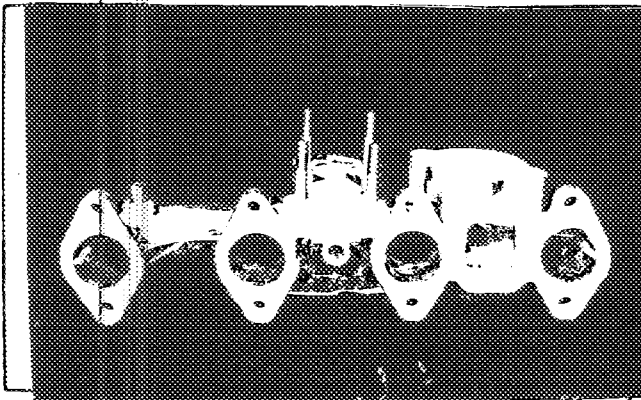
N, Carburetor (view from side of manifold) 気化器



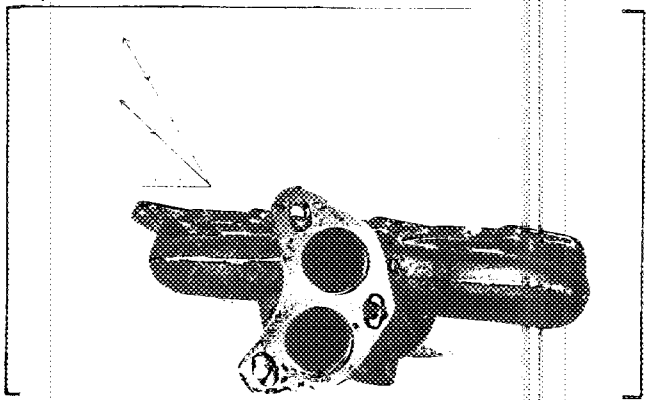
O, Engine in car with all accessories, bonnet open or removed. エンジンルーム



P, Inlet manifold 吸気マニホールド

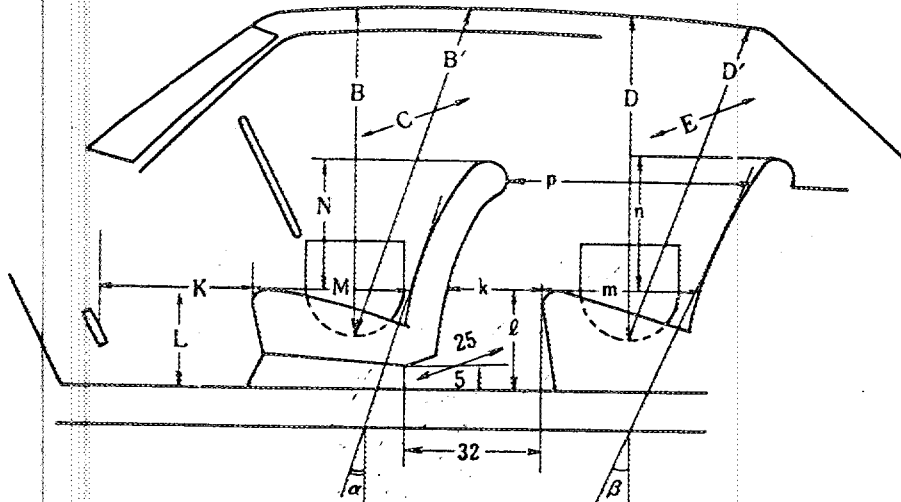


Q, Exhaust manifold 排気マニホールド



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

For four seaters:  
4座席

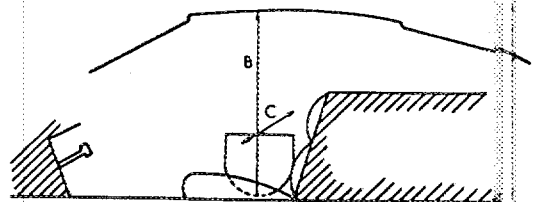


Minimum Dimensions (cm)							
B	B'	$\alpha$	C	D	D'	$\beta$	E
92.5	101.0	15°	128.5	89.0	87.0	20°	127.0

Minimum Dimensions (cm)										
L	$\ell$	M	m	N	n	k+m	p	k	k+ $\ell$ +m	K+L+M
28.0	31.0	45.0	44.0	45.0	41.0	64.0	67.0	20.0	95.0	121.0
0.9L =	24.3	0.85M =	38.2	0.8N =	36.0	0.8(k+m) =	51.2	(15)	(95)	(120)

For two seaters:  
2座席

Minimum Dimensions	
B	C
cm	cm



Make Mitsubishi

Model A53C  
型式

J.A.F.公認番号

T-176

F.I.A. Rec. No.

TWO STROKE ENGINES

2冲イタクルエンジン

300. System of cylinder scavenging 掃気方式					
301. Type of lubrication 潤滑方式					
302. Inlet ports, length measured around cylinder wall 吸気孔の長さ				mm	inches
303. Height inlet port 吸気孔の高さ	mm	in.	304. Area 吸気孔の総面積	mm <sup>2</sup>	sq. in.
305. Exhaust ports, length measured around cylinder wall 排気孔の長さ				mm	inches
306. Height exhaust port 排気孔の高さ	mm	in.	307. Area 排気孔の総面積	mm <sup>2</sup>	sq. in.
308. Transfer port, length measured around cylinder wall 掃気孔の長さ				mm	inches
309. Height transfer port 掃気孔の高さ	mm	in.	310. Area 掃気孔の総面積	mm <sup>2</sup>	sq. in.
311. Piston ports, length measured around piston ピストンポートの幅				mm	inches
312. Height piston port ピストンポートの高さ	mm	in.	313. Area ピストンポートの総面積	mm <sup>2</sup>	sq. in.
314. Method of precompression プレコンプレッション方式			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 : 排気孔の最高点とブロック上面との距離				mm	inches
319. Distance from top of cyl. block to lowest point of inlet port : 吸気孔の最低点とブロック上面との距離				mm	inches
320. Distance from top of cyl. block to highest point of transfer port : 掃気孔の最高点とブロック上面との距離				mm	inches
321. Drawing of cylinder ports. シリンダーポート展開図					

330. Supercharging—state full details hereafter :  
過給器

Unit: mm

Tolerance:

Make Mitsubishi

Model A53C

J.A.F.公認番号

T-176

F.I.A. Rec. No.

Wankel Rotary Engine (photographs J and K)

No.	Description	Unit	Value
	ワケラーエンジン ローターエンジン		
400.	Type & cycle 形式及びサイクル		
401.	No. of rotors ローターの数		
402.	Rotor arrangement ローターの配列		
403.	Trochoid, length of major Axis トロコイド長軸長さ	mm	
404.	Trochoid, length of minor Axis トロコイド短軸長さ	mm	
405.	Trochoid, width トロコイドの幅	mm	
406.	Trochoid, generating radius (Containing equidistance) トロコイドの生成半径 (平行移動量を含む)	mm	
407.	Eccentricity 偏心率		
408.	Capacity per Rotor ローター当りの排気量	cc	
409.	Total capacity 総排気量	cc	
410.	Equivalent total capacity (by App. J Art. 252) 換算総排気量 (J項 252条による)	cm <sup>3</sup>	
411.	Material(s) of side housing サイドハウジングの材質		
412.	Material(s) of rotor housing ローターハウジングの材質		
413.	Number of inlet ports 吸気孔の数		
414.	Number of exhaust ports 排気孔の数		
415.	Compression ratio		
416.	Volume of one combustion chamber	cm <sup>3</sup>	
417.	Rotor material ローターの材質		
418.	Number of apex seal per rotor ローター当りのアペックスシールの数		
419.	Number of corner seal per rotor ローター当りのコーナーシールの数		
420.	Number of side seal per rotor ローター当りのサイドシールの数		

Make Mitsubishi

Model A53C  
型式

F.I.A. Rec. No.

421. Number of oil scraping ring per rotor  
1ローター当りのオイルリングの数

422. Eccentric shaft: moulded/stamped  
偏芯軸: 鋳造/鍛造

423. Type of eccentric shaft: integral/  
偏芯軸の形式: 一体式/

424. Number of eccentric shaft main bearings  
メインベアリングの数

Bearing  
ベアリング

440. Eccentric shaft, main  
メインベアリング

Type  
形式

Dia.  
内径

mm

in.

441. Rotor bearing  
ローターベアリング

Type  
形式

Dia.  
外径

mm

in.

Weights

450. Flywheel (clean)

kg

451. Flywheel with clutch (all turning parts)

kg

452. Eccentric shaft

kg

453. Rotor with seals, gear and bearing

kg

Inlet (See page 8)  
吸気系

460. Material(s) of inlet manifold  
マニホールドの材質

461. Location of inlet ports  
吸気孔の位置

462. Inlet port area per rotor.

mm<sup>2</sup>

sq. in.

463. Inlet port open at (with tolerance)  
吸気孔開き始め (公差を含む)

464. Inlet port close at (with tolerance)  
吸気孔閉じ終り (公差を含む)

465. Air filter type

Exhaust (See page 8)  
排気系

470. Material(s) of exhaust manifold  
マニホールドの材質

471. Location of exhaust ports  
排気孔の位置

472. Exhaust port area per rotor

mm<sup>2</sup>

sq. in.

473. Exhaust port open at (with tolerance)  
排気孔開き始め (公差を含む)

474. Exhaust port close at (with tolerance)  
排気孔閉じ終り (公差を含む)





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F.公認番号

発効年月日

F.I.A. Homol. No 5346

T-137 V-1

71.7月 7日

/M/V

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

国際スポーツ法典付則J項及びJAF国内競技車両規則に従った公認形式。

Make Mitsubishi

製造会社名

Model

型式及び通称名

A52 (Colt Galant)

Modification's application starts with serial

No.

chassis 適用シャーシー番号

A52-0000001

engine 適用エンジン番号

4G32-00001

Application of this amendment started the 1st July, 1970

適用年月日

Commercial denomination after application of modifications A53 (Colt Galant)

The modifications are to be considered as: Variant ~~XXXXXX~~

Date amendment is valid from

1/10/71

List

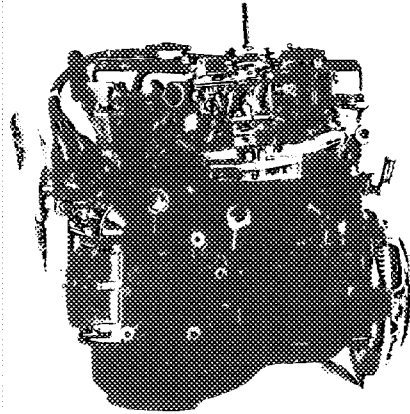
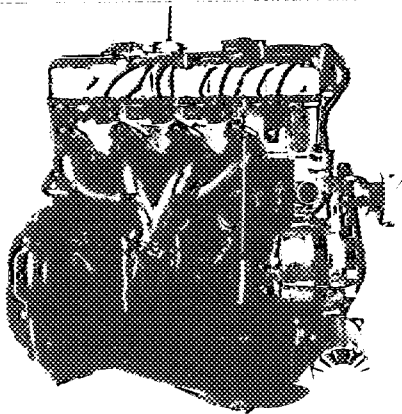
71/10

Description of amendment 内容

Another type of engine can be selected for A52 as maker's option. Total cylinder capacity 1597 cm<sup>3</sup> 97.46 cu. in.

Photo. J

Photo. K



Further detailed specifications different from original engine are described on the attached sheets.

The No. of Chassis installed this engine include on and after A53-0000001

Stamp and signature of the JAF

JAF公認印及び署名

難波靖彦



Yasuharu Nanba

Stamp and signature of the F.I.A.

[Signature]

Make Mitsubishi Model 型式 A53

J.A.F.公認番号 T-137 7-1  
F.I.A. Rec. No. 5346 / MW

ENGINE (Photographs J and K)

133 Bore 76.5 mm 3.04 in.  
135 Capacity per cylinder 399 cm<sup>3</sup> 24.35 cu. in.  
136 Total cylinder-capacity 1597 cm<sup>3</sup> 97.46 cu. in.  
142 Compression ratio 8.5  
143 Volume of one combustion chamber 53.2 cm<sup>3</sup>  
146 Distance from gudgeon pin center line to highest point of piston crown 34 mm

INLET

182 Max. valve lift 10 mm 0.37 in.  
187 Valves open at (with tolerance for tappet clearance indicated)  
B. T. D. C. 32° ± 7°  
188 Valves close at (with tolerance for tappet clearance indicated)  
A. B. D. C. 62° ± 7°

EXHAUST

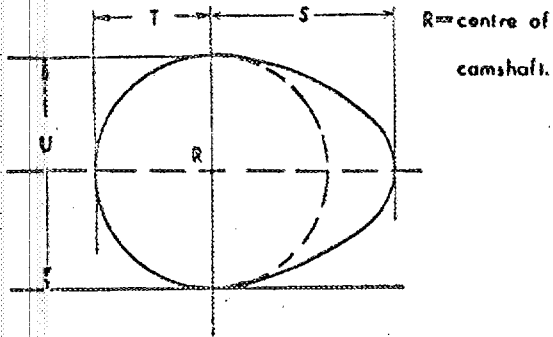
197 Max. valve lift 10 mm 0.37 in.  
202 Valves open at (with tolerance for tappet clearance indicated)  
B. B. D. C. 63° ± 7°  
203 Valves close at (with tolerance for tappet clearance indicated)  
A. T. D. C. 29° ± 7°

ENGINE AND CAR PERFORMANCES

250 Max. engine output 100PS (type of horsepower: JIS)  
at 6300 rpm  
251 Maximum rpm 6500 output at that figure 99PS  
252 Maximum torque 14.0 kgm at 4000 rpm

255

Cam profile



Inlet cam

S=21.0 mm    0.83 inches

Exhaust cam

S=21.1 mm    0.83 inches

Photo M    Piston crown



The weight of A53 model is same as A52 model.



JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F.公認番号 T-137 E-2  
発効年月日 47. 3. 31  
F.I.A. Homol. No 5346

2/1E

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

国際スポーツ法典付則J項及びJAF国内競技車両規則に従った公認書式。

Make Mitsubishi Model A52 (Colt Galant)  
 製造会社名 型式及び通称名  
 Modification's application starts with serial No. chassis 適用シャーシー番号 A52-0000001  
 engine 適用エンジン番号 4G31-00001  
 Application of this amendment started the 1st Aug., 1971  
 適用年月日  
 Commercial denomination after application of modifications  
 The modifications are to be considered as: ~~異常な~~ normal evolution of the type  
 異常 / 正常進化  
 Date amendment is valid from List

Description of amendment 内容

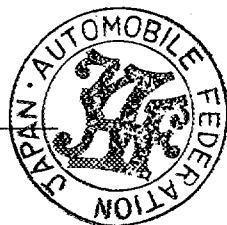
Photograph A 3/4 view of car from front



Stamp and signature of the JAF

JAF公認印及び署名

尾山博史  
Hiroshi Niwayama



Stamp and signature of the F.I.A.

Make Mitsubishi

Model A52  
型式

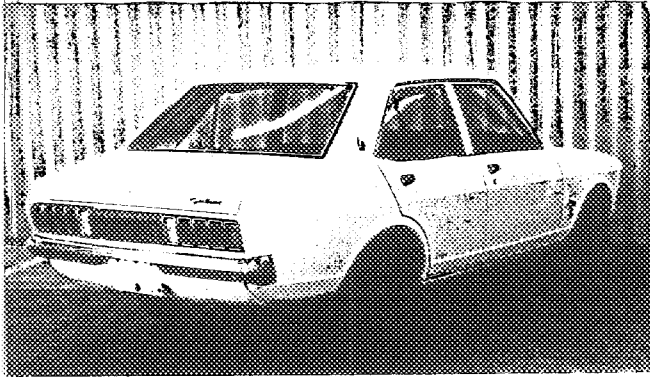
J.A.F.公認番号 T-13

E-2

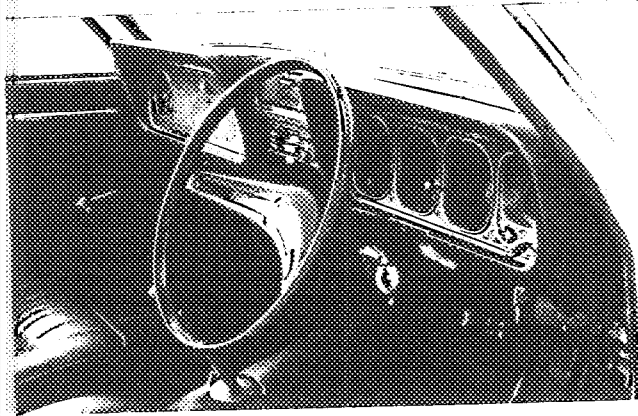
F.I.A. Rec. No. 5346

2/1E

Photograph B 3/4 view of car from rear



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



Make MITSUBISHI

Model A52  
型式

J.A.F公認番号 T-137V-3

F.I.A. Rec. No. 5346

3/22

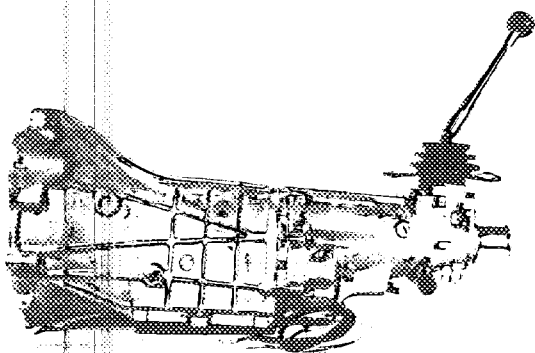
GEAR BOX

271. No. of gear-box ratios forward 5

272. Synchronized forward ratios 1, 2, 3, 4& 5

277	Manual		Alternative manual	
	Ratio	No. teeth	Ratio	No. teeth
1	3.24	$\frac{26}{21} \times \frac{34}{13}$	2.97	$\frac{25}{22} \times \frac{34}{13}$
2	1.96	$\frac{26}{21} \times \frac{30}{19}$	1.79	$\frac{25}{22} \times \frac{30}{19}$
3	1.34	$\frac{26}{21} \times \frac{26}{24}$	1.33	$\frac{25}{22} \times \frac{27}{23}$
4	1.00		1.00	
5	0.85	$\frac{26}{21} \times \frac{20}{29}$	0.85	$\frac{25}{22} \times \frac{21}{28}$
reverse	3.05	$\frac{26}{21} \times \frac{19}{15} \times \frac{37}{19}$	2.80	$\frac{25}{22} \times \frac{19}{15} \times \frac{37}{19}$

Photo H Gear-box view from side



Part number

MD703301





JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

J.A.F. 公認番号 T-137V-3

発効年月日 1973年2月28日

F.I.A. Homol. No 5346

4/30

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

国際スポーツ法典付則J項及びJAF国内競技車両規則に従った公認形式。

Make Mitsubishi Motors Corp. Model A52 (Colt Galant)  
 製造会社名 型式及び通称名  
 Modification's application starts with serial No. chassis 適用シャーシー型式番号 A52-0000001  
 engine 適用エンジン型式番号 4G32-00101  
 Application of this amendment started the 1st Jan. 1973  
 適用年月日  
 Commercial denomination after application of modifications A53 (Colt Galant 16L)  
 The modifications are to be considered as: Variant / ~~no modification of the chassis~~  
 変更 / ~~車架変更~~  
 Date amendment is valid from 1873 list

Description of amendment 内容

Another type of engine can be selected for A52 cars as maker's option.

Photo. J

Engine unit out of car, from right

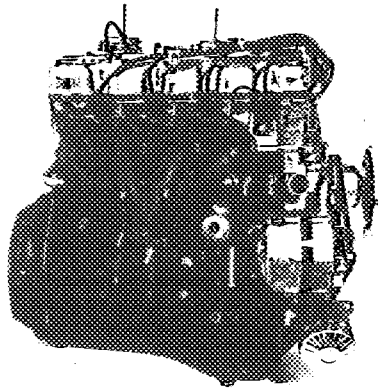
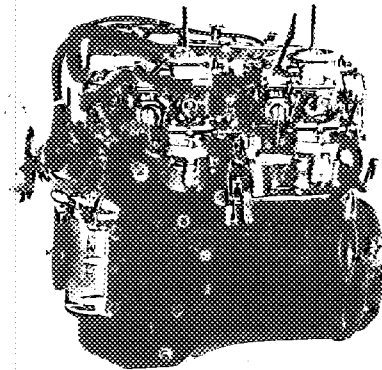


Photo. K

Engine unit out of car, from left



Further detailed specification different from the original engine are described on the attached sheets.

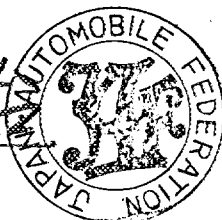
The No. chassis installed this engine include on and after A53-0000001

Stamp and signature of the JAF

JAF公認印及び署名

籾波清治

Yasuharu Nanba



Stamp and signature of the F.I.A.

Make MITSUBISHI,

Model  
型式 A52

F.I.A. Rec. No. 5346

## ENGINE (photograph J and K)

133. Bore 76.9 mm 3.03 in.
135. Capacity per cylinder 399.25 cm<sup>3</sup> 24.35 cu. in.
136. Total cylinder capacity 1597 cm<sup>3</sup> 97.46 cu. in.
142. Compression ratio 9.5
143. Volume of one combustion chamber 49.9 cm<sup>3</sup>
146. Distance from gudgeon pin centre line to highest point of piston crown 34 mm
155. Capacity of cooling system 6.0 ltrs.
156. Cooling fan (if fitted), dia 325 mm
157. Number of blades of cooling fan 6

## WEIGHTS

160. Flywheel (clean) 7.5 ± 0.3 kg
161. Flywheel with clutch (all turning parts) 12.3 ± 0.6 kg
162. Crankshaft 12.8 ± 0.3 kg
163. Connecting rod 0.63 ± 0.06 kg
164. piston with rings and pin 0.41 ± 0.01 kg

## INLET

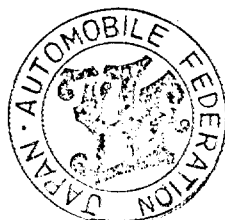
182. Max. valve lift 9.5 mm 0.37 in.
187. Valves open at (with tolerance for tappet clearance indicated)  
B. T. D. C. 24° ± 7°
188. Valves close at (with tolerance for tappet clearance indicated)  
A. B. D. C. 64° ± 7°

## EXHAUST

197. Max. valve lift 9.5 mm 0.37 in.
202. Valves open at (with tolerance for tappet clearance indicated)  
B. B. D. C. 67° ± 7°
203. Valves close at (with tolerance for tappet clearance indicated)  
A. T. D. C. 21° ± 7°

## CARBURETION (photograph N)

210. Number of carburettor fitted 2
213. Model 28-32-DID SA





Make

MITSUBISHI

Model  
形式

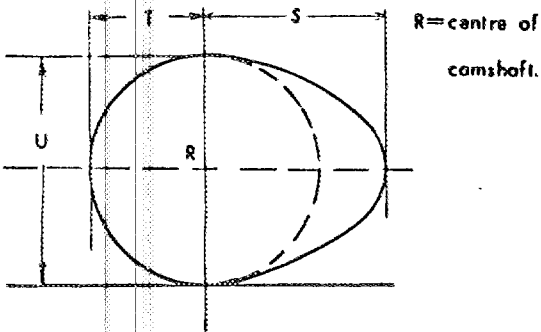
A52

J.A.F.公認番号 T-137V-3

F.I.A. Rec. No. 5346

ENGINE AND CAR PERFORMANCES

- 250. Max. engine output 110 ps (type of horsepower : JIS ) at 6700 rpm
- 251. Maximum rpm 7,000 rpm output at that figure 108 ps
- 252. Maximum toque 14.2 kgm at 4800 rpm
- 253. Maximum speed of the car 180 km
- 255. Cam profile



Inlet cam

S= 21.0 mm 0.83 in.

T= 15.5 mm 0.61 in.

U= 31.0 mm 1.22 in.

Exhaust cam

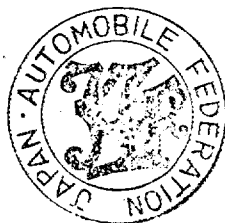
S=21.0 mm 0.83 in.

T= 15.5 mm 0.61 in.

U= 31.0mm 1.22 in.

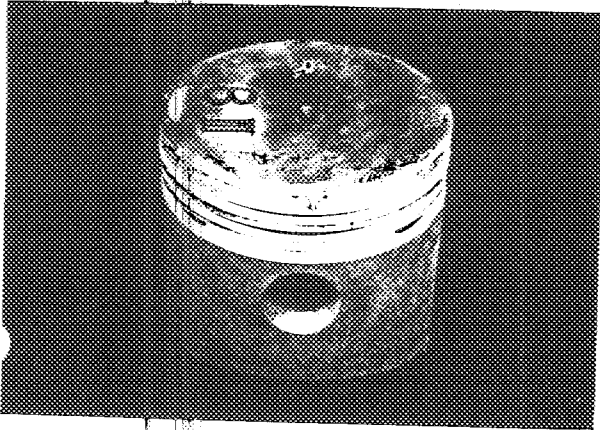
BRAKES

- 91. Servo-assistance (if fitted ) type Vacuum

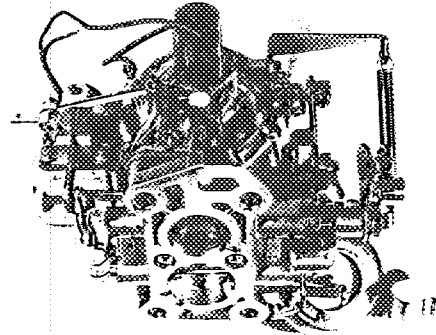


Photograph

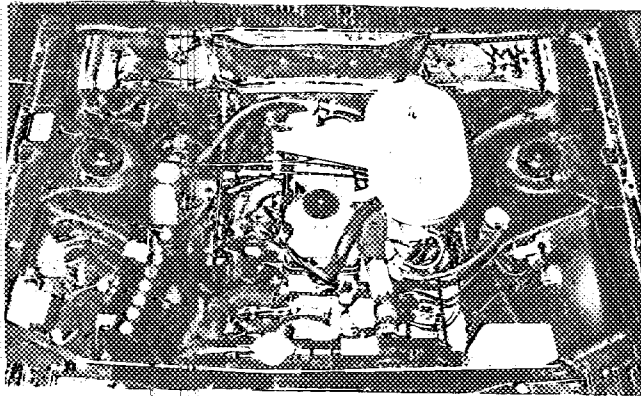
M. Piston Crown



N. Carburettor (view from side of manifold)



Q. Engine room with all accessories



P. Inlet manifold

