

FIA NO. ~~2070~~ 5641

GROUP 1

FISA - Transfert en Gr.A

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AUTOMOBILE COMPETITION COMMITTEE FOR THE UNITED STATES, FIA, INC.

Suite 302, 1725 K St. N.W. , Washington, D.C. 20006

FEDERATION INTERNATIONALE DE L'AUTOMOBILE
FORM OF RECOGNITION

In Accordance with Appendix "J" of the International Sporting Code

Cylinder Capacity 5735 cm³ 350 in³

Manufacturer Chevrolet Motor Div., GMC Model Vega Monza 2 + 2 1HR07

Serial # Chassis 1R 07 A 52 100001 Manufacturer Chevrolet Motor Div., GMC

Serial # Engine T (Date) Car Manufacturer Chevrolet Motor Div., GMC

Recognition valid from 1.12.76 List _____

The manufacturing of the model described in this recognition form was started on August 19, 1974 and the minimum production of 5,000 identical cars, in accordance with the specifications of this form, was reached on October 1, 1974

A 3/4 Front View Car *



The following amendments apply to the vehicle identified above:

Variants

on 19 Rec # _____ list _____
on 19 Rec # _____ list _____
on 19 Rec # _____ list _____

Normal Evolution of the Type

on 19 Rec # _____ list _____
on 19 Rec # _____ list _____
on 19 Rec # _____ list _____

Stamp/Signature of
National Sporting Authority

Stamp/Signature
F.I.A.

MAKE Chevrolet

MODEL Monza 2 + 2

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CHASSIS AND BODYWORK (Photos A, B and C)

- * 20. Chassis/body construction: ~~(separate)~~ (unit construction)
- * 21. Unit construction: material steel
- * 22. Separate construction: material of chassis
- * 23. Material of body: steel
- * 24. Number of doors: two (2) Material: steel
- * 25. Material of hood: steel
- * 26. Material of trunk lid: steel
- 27. Material of rear window: safety plate glass
- 28. Material of windshield: laminated safety glass
- 29. Material of front door windows: safety plate glass
- 30. Material of rear door windows: none
- 31. Windows, actuating system: crank and linkage
- 32. Material of rear quarter window: safety plate glass

ACCESSORIES AND UPHOLSTERY

- 38. Heating, interior: (yes) (no) optional
- 39. Air conditioning: (yes) (no) optional
- 40. Ventilation: (yes) (no) optional
- (SP) 41. Seats, front: Type of seat and upholstery fabric and vinyl
- 42. Seats, front: Weight (complete with supports and rails out of car) 17.48 kg 38.5ea lbs
Check: Bench _____ Bucket x Console included _____
- 43. Seats, rear: Type of seat and upholstery
- 44. Bumper, front: Material: aluminum Weight: 8.99 kg 19.811 lbs
- 45. Bumper, rear: Material: aluminum Weight: 5.84 kg 12.863 lbs

WHEELS

- 50. Type: pressed steel (optional forged aluminum) optional wheel 5.45 kg 12.0 lbs
- 51. Weight: (per wheel, without tire) 7.04 kg 15.500 lbs
- 52. Method of attachment: four (4) nuts
- 53. Rim diameter: 330.2 mm 13.0 inches
- 54. Rim width: 152.4 mm 6.0 inches



STEERING

- 60. Type: recirculating ball - worm and sector - linkage
- 61. Servo-assistance: (yes) (no) optional - hydraulic, engine driven pump
- 62. Number of turns of steering wheel from lock to lock: 4.4
- 63. In case of servo-assistance: 2.82



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SUSPENSION

- * 70. Front suspension (Photo D) type: independent - control arms with steering knuckle
- * 71. Type of spring: coil
- (SP) 72. Stabilizer (if fitted): torsion bar and linkage
- 73. Number of shock absorbers: one (1) per wheel
- 74. Type: tubular - direct acting

- * 78. Rear suspension (Photo E) type:
- * 79. Type of spring:
- (SP) 80. Stabilizer (if fitted): torsional bar
- 81. Number of shock absorbers: one (1) per wheel
- 82. Type: tubular - direct acting

BRAKES (Photos F and G)

- * 90. Method of operation: hydraulic
- (SP) 91. Power assisted (if fitted,) type: vacuum diaphragm
- 92. Number of master cylinders: one (1) dual system

	<u>Front</u>		<u>Rear</u>	
93. Number of cylinders per wheel:	one (1)		one (1)	
94. Bore of wheel cylinder:	<u>47.625</u> mm	<u>1.875</u> in	<u>19.05</u> mm	<u>0.75</u> in
(SP) <u>Drum Brakes:</u>				
95. Inside diameter:	<u>---</u> mm	<u>---</u> in	<u>228.6</u> mm	<u>9.0</u> in
96. Length of brake linings:	<u>---</u> mm	<u>---</u> in	<u>233.172</u> mm	<u>9.18</u> in
97. Width of brake linings:	<u>---</u> mm	<u>---</u> in	<u>30.48</u> mm	<u>1.20</u> in
98. Number of shoes per brake:				two (2)
99. Total area per brake:	<u>---</u> mm ²	<u>---</u> in ²	<u>---</u> mm ²	<u>---</u> in ²
(SP) <u>Disc Brakes:</u>				
100. Outside diameter	<u>250.95</u> mm	<u>9.88</u> in	<u>---</u> mm	<u>---</u> in
101. Thickness of disc:	<u>12.7</u> mm	<u>0.50</u> in	<u>---</u> mm	<u>---</u> in
102. Length of brake linings:	<u>101.6</u> mm	<u>4.00</u> in	<u>---</u> mm	<u>---</u> in
103. Width of brake linings:	<u>40.64</u> mm	<u>1.60</u> in	<u>---</u> mm	<u>---</u> in
104. Number of pads per brake:	<u>two</u> (2)			
105. Total area per brake:	<u>---</u> mm ²	<u>---</u> in ²	<u>---</u> mm ²	<u>---</u> in ²



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ENGINE (Photos J and K)

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- * 130. Cycle: Four (4)
- * 131. Number of cylinders: Eight (8)
- * 132. Cylinder arrangement: 90° V-8 Wankel: # of elements & basic dimensions-
- * 133. Bore: 101.6 mm 4.00 inches
- * 134. Stroke: 88.39 mm 3.48 inches
- * 135. Capacity per cylinder: 716.9 cm³ 43.75 cu in
- * 136. Total cylinder capacity: 5735 cm³ 350 cu in

- * 137. Material of cylinder block: cast iron
- * 138. Material of sleeves (if fitted): none
- * 139. Cylinder head material: cast iron Number fitted: two (2)
- * 140. Number of inlet ports: eight (8)
- * 141. Number of exhaust ports: eight (8)
- (SP)142. Compression ratio: 8.5:1 (N)
- (SP)143. Volume of combustion chamber: 75.18cm³ 4.58 cu in
- (SP)144. Piston, material: Aluminum Alloy
- (SP)145. Number of rings:
- (SP)146. Distance from gudgeon pin centre line to highest point of piston crown: 39.62 mm 1.56 ± .02 inches

- * 147. Crankshaft: (cast) (forged)
- * 148. Crankshaft, type: (integral) (sectioned)
- * 149. Crankshaft, number of main bearings:
- * 150. Material of bearing cap: Cast Iron
- 151. System of lubrication: (dry sump) (oil in sump)
- 152. Lubricant capacity: 4.732 litres 10.0 pints 5.0 quarts U.S.
- (SP)153. Oil cooler: (yes) (no)
- * 154. Method of engine cooling: liquid
- 155. Capacity of cooling system: 15.14 litres 32.0 pints 16.0 quarts U.S.
- (SP)156. Cooling fan (if fitted) diameter: 45.72 cm 18.0 inches
- (SP)157. Number of blades of cooling fan: Four (4)

BEARINGS

- * 158. Crankshaft, main, type: Diameter: 62.179 mm 2.448 inches
- * 159. Connecting rod, big end, type: Diameter: 53.31 mm 2.099 inches

WEIGHTS

- (SP)160. Flywheel (clean): 13.74 kg 30.31 lbs
- (SP)161. Flywheel with clutch (all rotating parts): 23.34 kg 51.455 lbs
- (SP)162. Crankshaft: 28.98 kg 63.88 lbs
- (SP)163. Connecting Rod: .88 kg 1.950 lbs
- (SP)164. Piston with rings and pin: .778 kg 1.717 lbs



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350 cu. in. engine

FOUR CYCLE ENGINES

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- * 170. Number of camshafts: one (1)
- * 171. Location of camshaft: Engine Block
- * 172. Type of camshaft drive: Gear and Chain
- * 173. Type of valve operation: Push Rod and Rocker Arm

INLET (see Photo P) +

- 180. Material of inlet manifold: Aluminum Alloy
- 181. Overall diameter of valves: 49.403 mm 1.945 inches
- (SP) 182. Maximum valve lift: 9.906 mm .390 inches
- 183. Number of valve springs: One (1) plus Damper
- 184. Type of spring: Coil
- * 185. Number of valves per cylinder: One (1)
- (SP) 186. Tappet clearance for checking timing (cold) 0 mm 0 inches
- (SP) 187. Valves open at (with tolerance for tappet clearance indicated): 52° BTC
- (SP) 188. Valves close at (with tolerance for tappet clearance indicated): 114° ABC
- (SP) 189. Air filter: (wet) (dry) Cartridge type: (yes) (no)

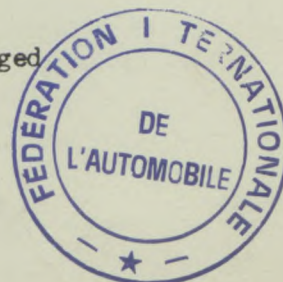
EXHAUST (see Photo Q)

- 195. Material of exhaust manifold: Cast Iron
- 196. Overall diameter of valves: 38.227 mm 1.505 inches
- (SP) 197. Maximum valve lift: 10.414 mm .410 inches
- 198. Number of valve springs: One (1) plus Damper
- 199. Type of spring: Coil
- * 200. Number of valves per cylinder: One (1)
- (SP) 201. Tappet clearance for checking timing (cold) 0 mm 0 inches
- (SP) 202. Valves open at (with tolerance for tappet clearance indicated): 98 BBC
- (SP) 203. Valves close at (with tolerance for tappet clearance indicated): 62 ATC
- (SP) 204. Inside diameter of exhaust manifold outlet:

CARBURETION (see Photo N)

- 210. Number of carburetors fitted: One (1)
- (SP) 211. Type: Downdraft
- (SP) 212. Make: Rochester
- (SP) 213. Model: 7041112
- 214. Number of mixture passages per carburetor: Two (2)
- (SP) 215. Flange hole diameter of exit port of carburetor: 31.75 mm 1.25 inches
- (SP) 216. Depending on type of carburetor, indicate: diameter at throat of venturi/s at the plane of maximum restriction. Dimension of mixture passage at the point of maximum restriction with the piston in its maximum open position (example SU type): 27.69 mm 1.09 inches

+ For additional information concerning two-stroke engines and supercharged engines, add supplementary page



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350 cu. in. Engine

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INJECTION (if fitted) N. A.

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220. Make of pump: _____
- (SP)222. Model or type of pump: _____
224. Location of injectors: _____
- (SP)225. Minimum diameter of inlet pipe: _____ mm _____ inches
221. Number of plungers: _____
223. Total number of injectors: _____

ENGINE ACCESSORIES

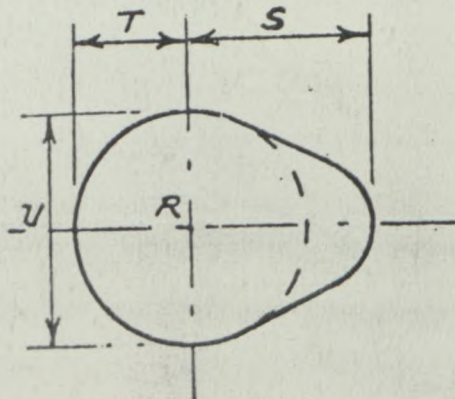
- (SP)230. Fuel pump: ~~mechanical~~ and/or electrical
231. Number fitted: One (1)
232. Type of ignition system: Coil and Breaker Points
233. Number of distributors: One (1)
234. Number of ignition coils: One (1)
235. Number of spark plugs per cylinder: One (1)
- (SP)236. Generator type: (~~dynamo~~) (alternator) Number: One (1)
237. Method of drive: Belt & Pulley
238. Voltage of generator: 12.0
239. Battery, number: One (1)
240. Location of battery: Engine Compartment
241. Voltage of battery: 12.0 volts



ENGINE & CAR PERFORMANCE (as declared by manufacturer in catalog)

- (SP)250. Horsepower, maximum engine output: 125 @ _____ at: 3600 rpm
(indicate SAE or DIN)
- (SP)251. Maximum rpm: N.A. (SP) Output at that figure:
- (SP)252. Maximum torque: 235 at: 2000 rpm
- (SP)253. Maximum speed: N.A. km/hour N.A. miles/hour

255. CAM



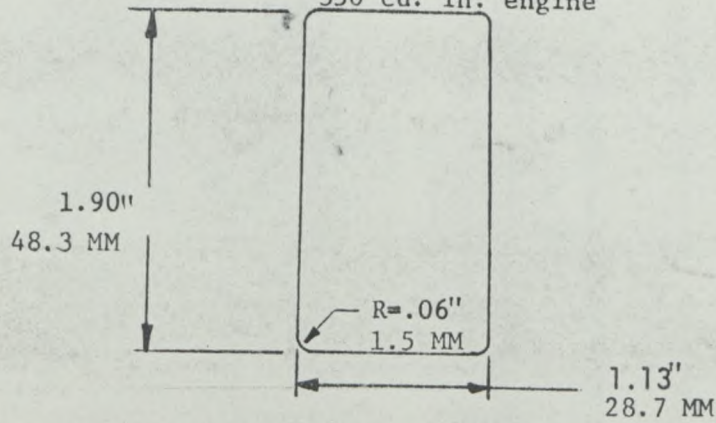
- (SP) Inlet cam
- | | | | | |
|-----|-------|----|-------|--------|
| S = | 22.93 | mm | .903 | inches |
| T = | 16.33 | mm | .643 | inches |
| U = | 32.66 | mm | 1.286 | inches |
- (SP) Exhaust cam
- | | | | | |
|-----|-------|----|-------|--------|
| S = | 22.91 | mm | .902 | inches |
| T = | 15.97 | mm | .629 | inches |
| U = | 31.95 | mm | 1.258 | inches |

MAKE Chevrolet

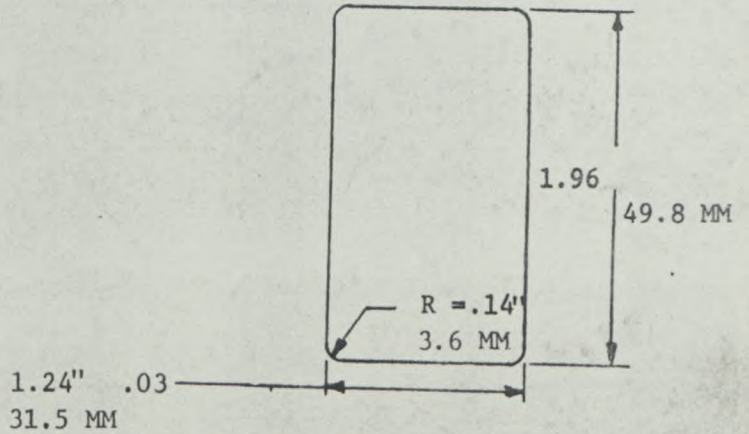
MODEL Monza 2 + 2
350 cu. in. engine

FIA REC # 3070 5641

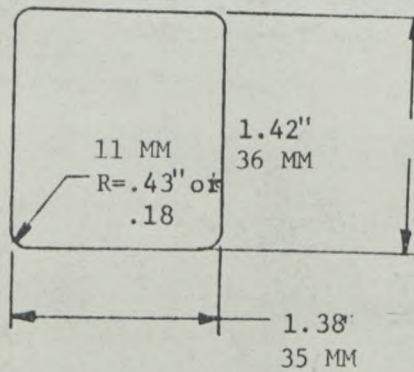
Drawing inlet manifold ports, side of cylinder head. Indicate scale or dimensions and manufacturing tolerance.



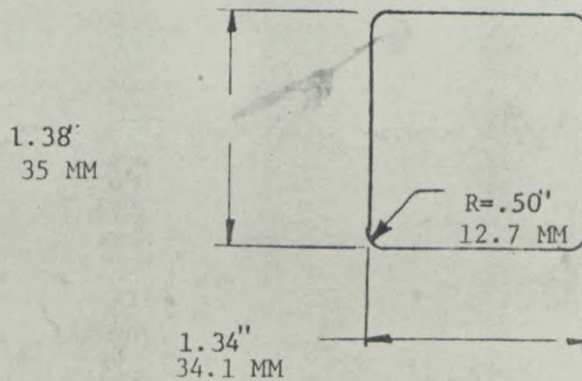
Drawing of entrance to inlet port of cylinder head. Indicate scale or dimensions and manufacturing tolerance.



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



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



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MODEL Monza 2 + 2

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DRIVE TRAIN

Clutch

- 260. Type of clutch: dry disc
- 261. Number of plates: one (1)
- 262. Diameter of clutch plates: $\frac{231.65}{mm}$ $\frac{9.12}{inches}$
- 263. Inside diameter of lining: $\frac{155.448}{mm}$ $\frac{6.12}{inches}$
- Outside diameter of lining: $\frac{231.648}{mm}$ $\frac{9.12}{inches}$
- 264. Method of operation: foot pedal, cable and lever

Gear Box (Photo H)

- * 270. Manual type, make: Chevrolet Method of operation: constant mesh gears
- * 271. Number of gear box forward ratios: four (4)
- 272. Synchronized forward ratios: four (4)
- 273. Location of gear-shift: floor mounted
- * 274. Automatic, make: Chevrolet Type: torque converter and planetary gears
- * 275. Number of forward ratios: three (3)
- 276. Location of gear-shift: floor mounted

277.	Manual		Automatic		Alternative Manual/ Automatic			
	Ratio	No. Teeth	Ratio	No. Teeth	Ratio	No. Teeth	Ratio	No. Teeth
1	3.11:1	$\frac{29}{18} \times \frac{29}{15}$	2.52:1	X	2.54:1	$\frac{25}{19} \times \frac{29}{15}$		
2	2.20:1	$\frac{29}{18} \times \frac{26}{19}$	1.52:1	X	1.80:1	$\frac{25}{19} \times \frac{26}{19}$		
3	1.47:1	$\frac{29}{18} \times \frac{23}{21}$	1.00:1	Direct	1.44:1	$\frac{25}{19} \times \frac{23}{21}$		
4	1.00:1	Direct			1.00:1	Direct		
5								
6								
Reverse	3.11:1		1.94:1		2.54:1	$\frac{25}{19} \times \frac{18}{15} \times \frac{29}{18}$		

*Automatic transmission ratios are resultant interaction of two (2) planetary gear

sets. sun gear = 34T, planet = 16T, ring gear = 66T.

278. Overdrive, type: N.A.

279. Forward gears on which overdrive can be selected: _____

280. Overdrive ratio: _____

FINAL DRIVE

- * 290. Type of final drive: salisbury type semi-floating
- * 291. Type of differential: hypoid ring and pinion
- * 292. Type of limited slip differential (if fitted): cone clutch
- 293. Final drive ratio: 2.56:1 $\frac{16}{41}$ 2.93:1 $\frac{13}{38}$
- Number of teeth: $\frac{16}{41}$ $\frac{13}{38}$



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IMPORTANT - For cars engaged in Group 2 (Special Touring) and Group 4 (Special Grand Touring) conformity with characteristics identified by symbol (SP) and entire page 8 IS NOT REQUIRED.

For cars engaged in Group 5 (Sport) only the characteristics identified by asterisks (*) need be verified.

EQUIPMENT AND ACCESSORIES available as options or production installed must indicate the part number of the option and the item number affected.

~~NOTE: All options shown on pages 14-19 are Group 2 only.~~

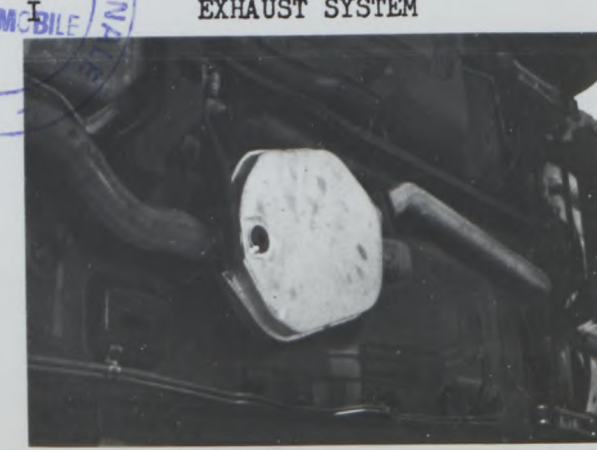
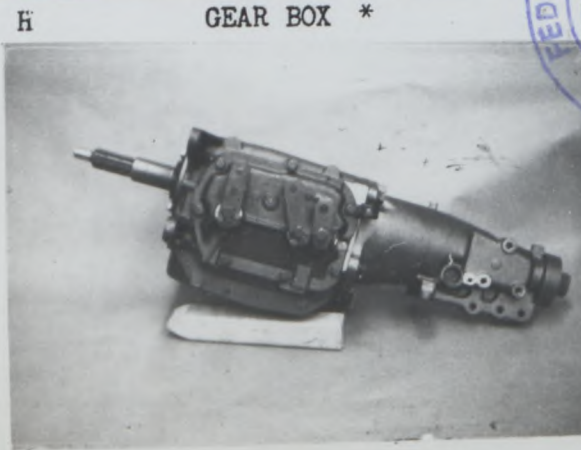
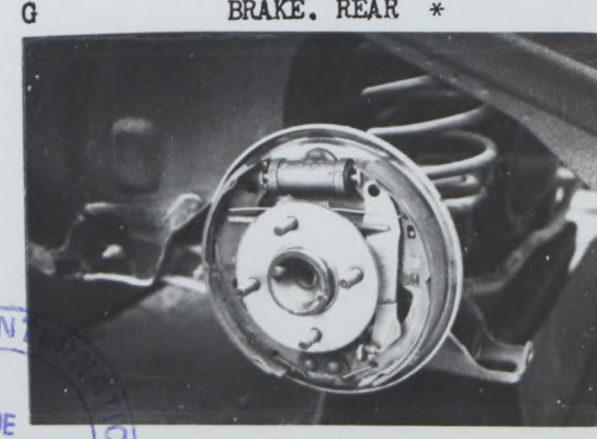
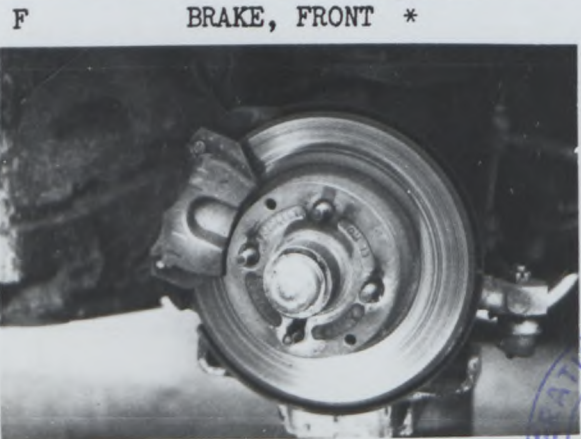
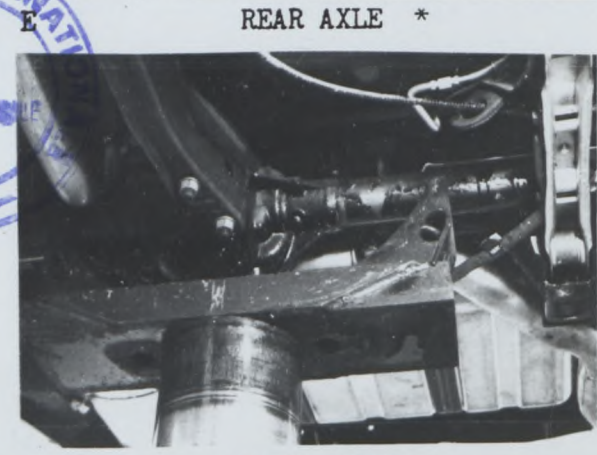
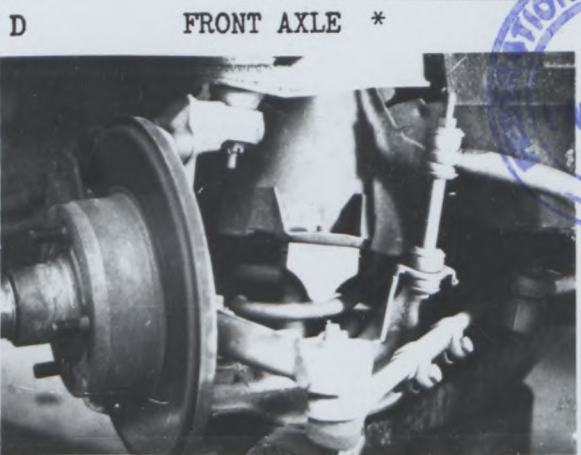
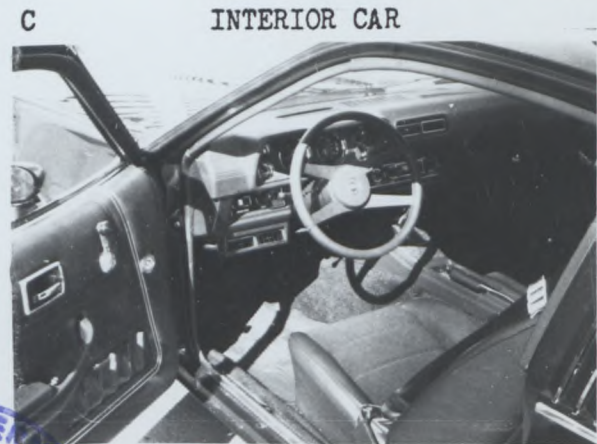


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MODEL Monza 2 + 2

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FEDERATION INTERNATIONALE DE L'AUTOMOBILE

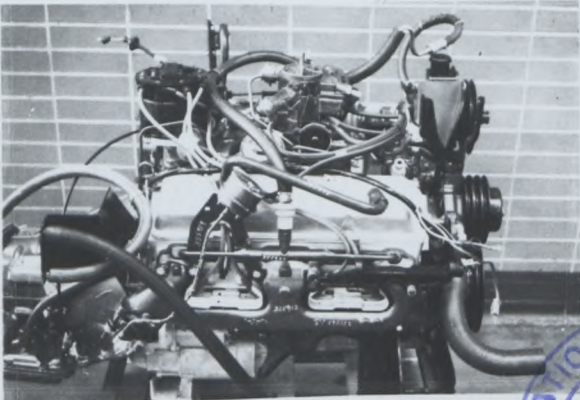
MAKE Chevrolet

MODEL Monza 2 + 2

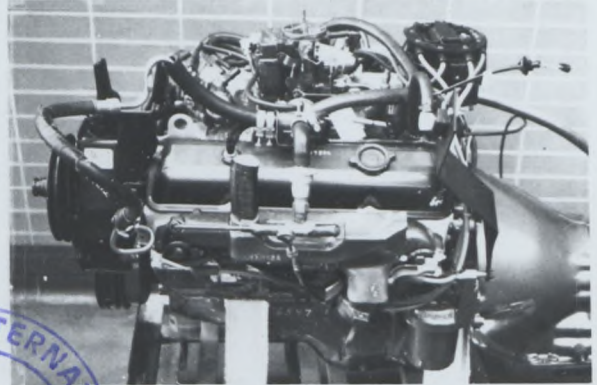
FIA REC. # 2070

350 cu. in. engine 5641

J ENGINE RIGHT *

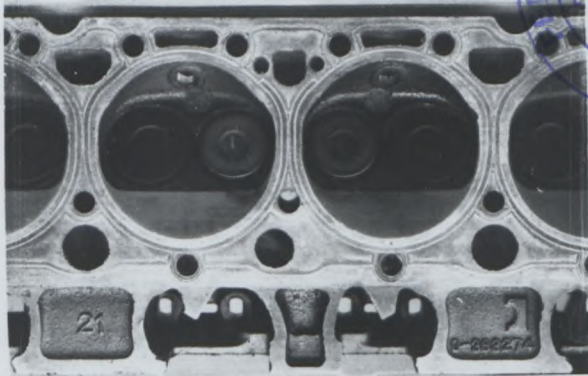


K ENGINE LEFT *



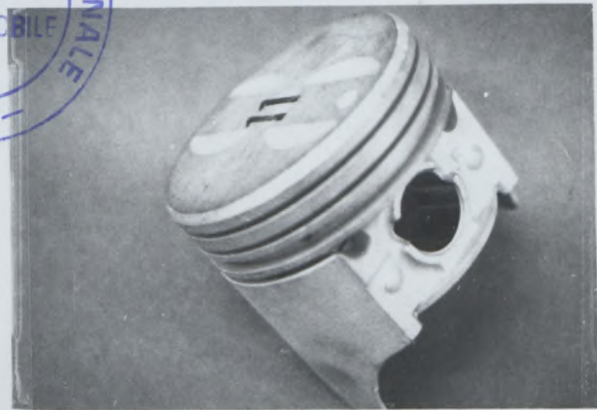
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L COMBUSTION CHAMBER

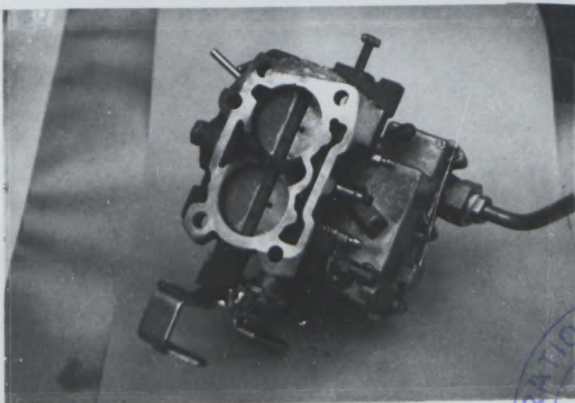


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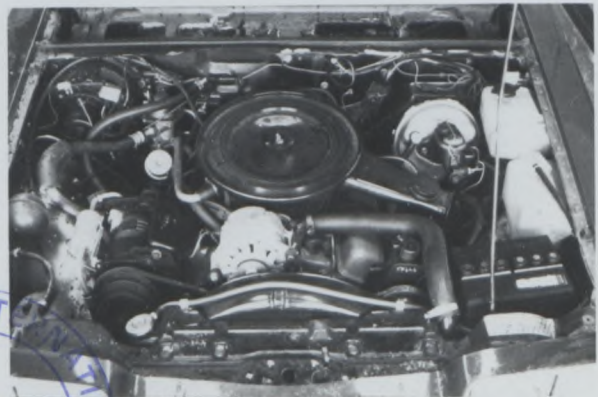
PISTON TOP



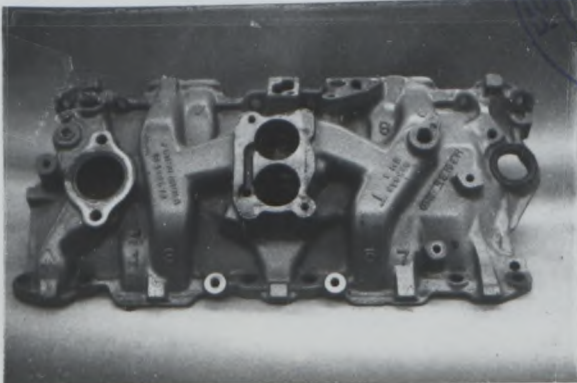
N CARBURETOR



O ENGINE IN PLACE *



P MANIFOLD INLET



DERATION INT
DE
L'AUTOMOBILE
★

MANIFOLD EXHAUST



MAKE Chevrolet

Model Monza 2 + 2

REC. NO. ⁵⁶⁴¹~~2070~~ 1/1V

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Item #70

Front Suspension Control Arm

Part #DK4012 Upper
DK4013/14 Lower



~~Item #290~~

~~Rear Axle Asm.~~

~~Part #DK5020~~



"valable en Groupe 2 uniquement"
"valid for Group 2 only"



Item #70

Steering Knuckle and Spindle

Part #AMP 1001 Spindle
AMP 1002 Caliper Bracket



Item #100

Front Brake and Knuckle Asm.

Part #DK4010



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REC. NO. 3070 V 1/1V

MAKE Chevrolet Vega MODEL Monza 2 + 2

GROUP 2 ONLY



Photograph F
Steering Knuckle, Hub and Brake Asm.

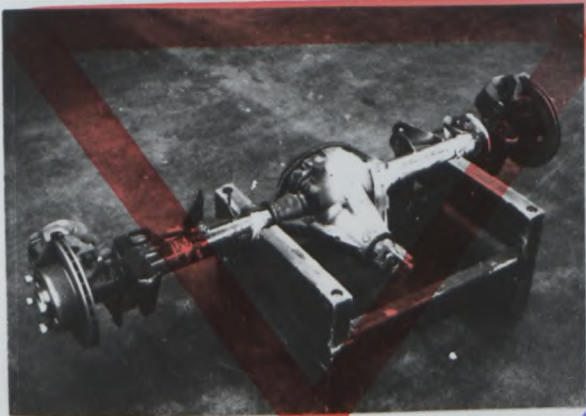
P/N 0-352933 LH
0-352934 RH

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Steering Knuckle Asm.

P/N 0-375565 LH
0-375566 RH



Photograph E

Rear Axle Assembly

P/N 0-352946

Photograph G

Rear Axle Disc Brake Assembly

P/N 0-352951 LH
0-352952



STAMP

STAMP

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Item #160

Flywheel Asm.

P/N 3991406

RPO L-88 Weight = 14.0 lbs.



Item #270

Transmission Asm.

P/N 6271517

RPO M-22

Aluminum Case Muncie 4 Speed

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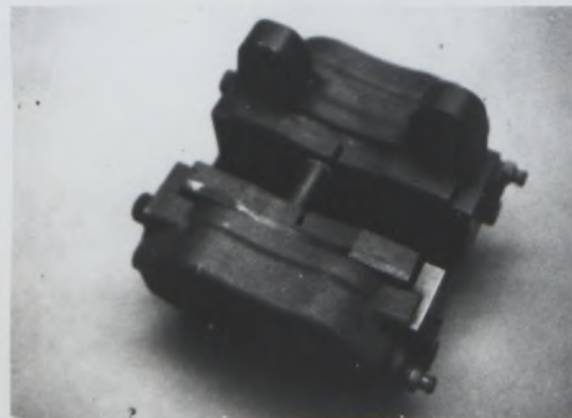
Item #270

Transmission Asm.

P/N 342451

W.G 31-38-000-002

Borg-Warner 5 Speed



Item #100

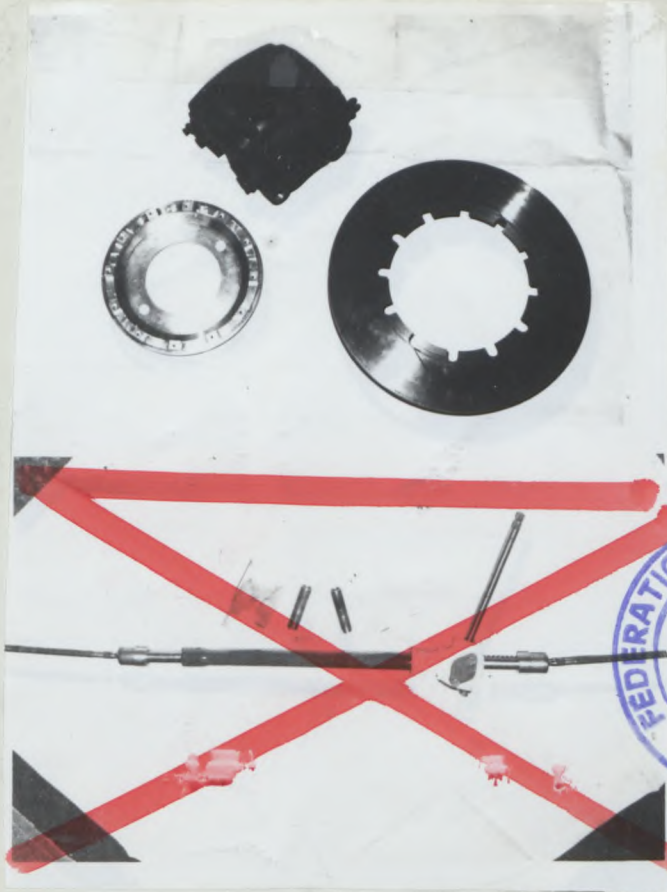
Brake Caliper Asm.

CP2271-48/49 Front

CP2301 Rear



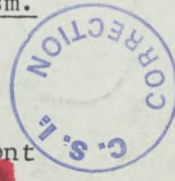
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Item #100

Brake Caliper Asm.
CP 2279 Front
~~CP 2271 Rear~~

Bracket Rotor
CP2261-14/17 Front
~~CP2261-6/7 Rear~~



~~Steering Gear Asm.~~
~~Part #11010~~



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"valid for Group 2 only"