



AUTOMOBILE COMPETITION COMMITTEE  
FOR THE UNITED STATES, F.I.A. INC.

433 MAIN ST.  
STAMFORD, CONN. 06901  
(203) 348-6233

582

Group IV

Federation Internationale de l'Automobile  
FORM OF RECOGNITION

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

Cylinder capacity 6492. cm3 396 in3

Manufacturer Chevrolet Model Camaro 12437

Serial # Chassis 124378N100001 Manufacturer Chevrolet

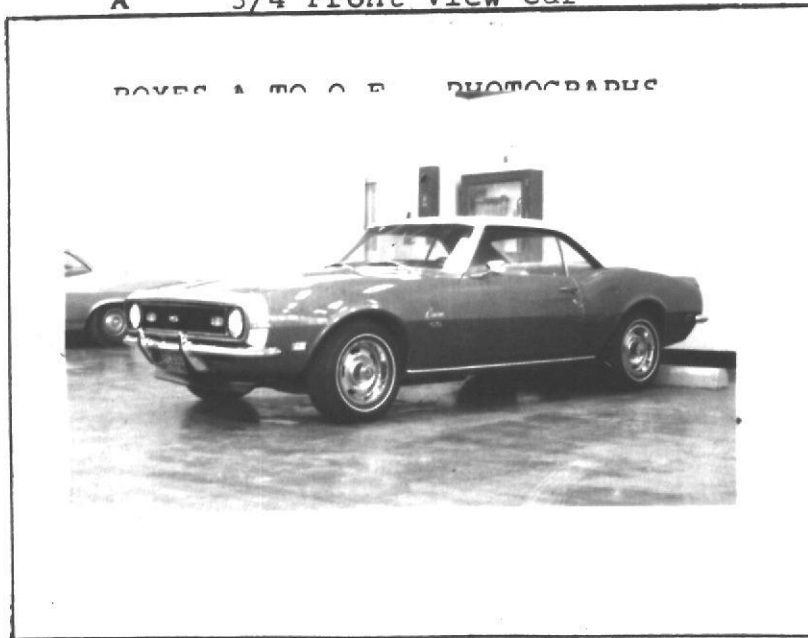
Serial # Engine T1001MQ Manufacturer Chevrolet

Recognition valid from 1st Jan. 1968 List 1968/1

The manufacturing of the model described in this recognition form was started on August 15 and the minimum production of 500 identical cars, in accordance with the specifications of this form, was reached on October 1, 1967.

- (\*) need not be answered for Group II and III cars.  
(\*\*) only need to be answered for Group IV cars.

A 3/4 Front View Car \*\*



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

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

JOHN V. OLIVEAU  
TECHNICAL DIRECTOR  
ACCUS, F.I.A. INC.

Stamp/Signature  
F.I.A.

MAKE Chevrolet Camaro

MODEL

12437 - 396

FIA REC # 582

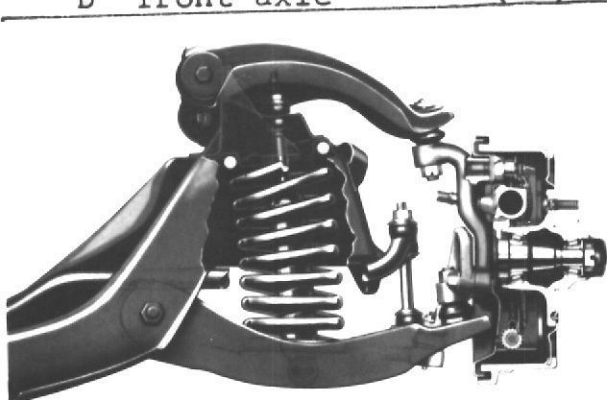
B 3/4 rear car (\*\*)



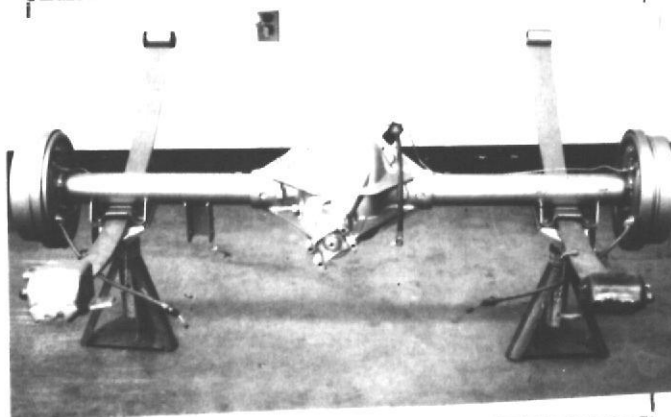
C interior-car (\*\*)



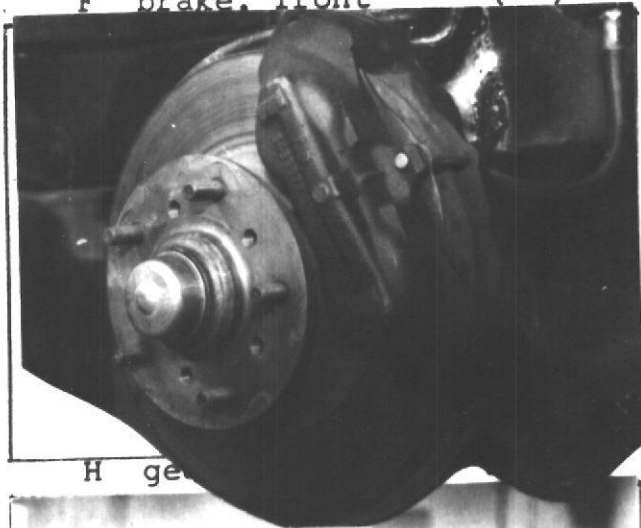
D front axle (\*\*)



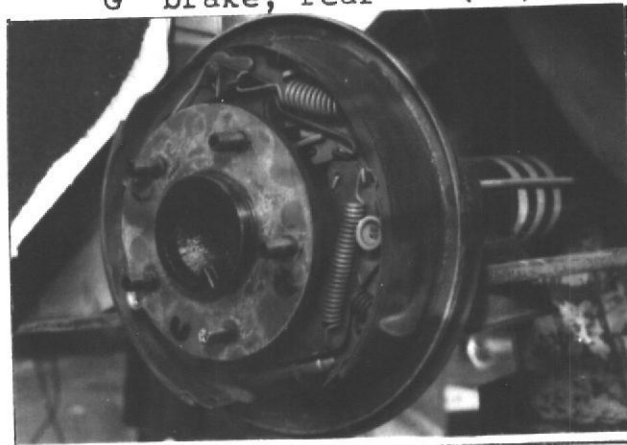
E rear axle (\*\*)



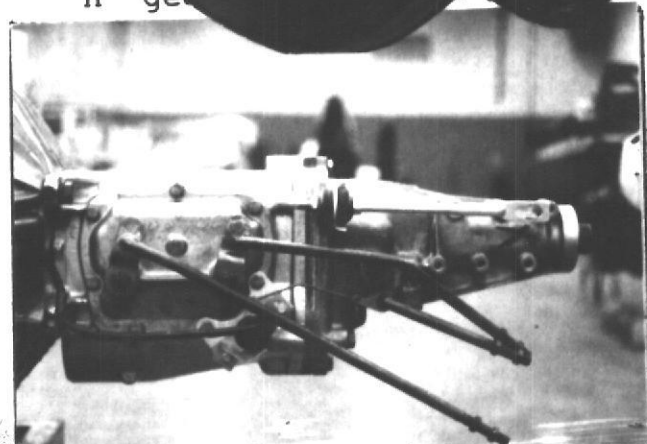
F brake, front (\*\*)



G brake, rear (\*\*)



H ge



I exhaust system (•)

muffler and exhaust pipes  
after exhaust manifold

STAMP

(2)



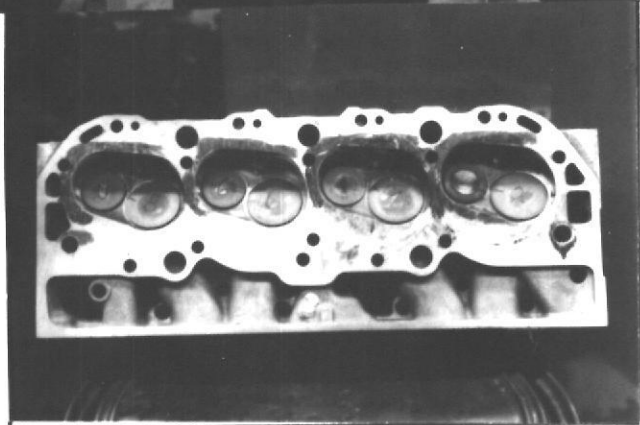
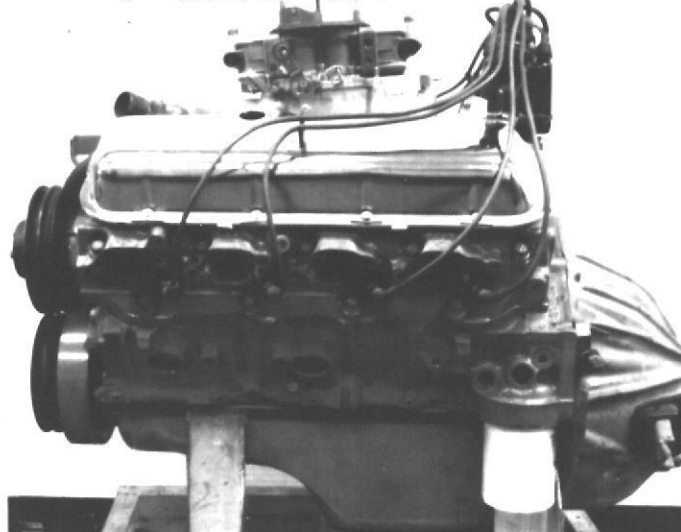
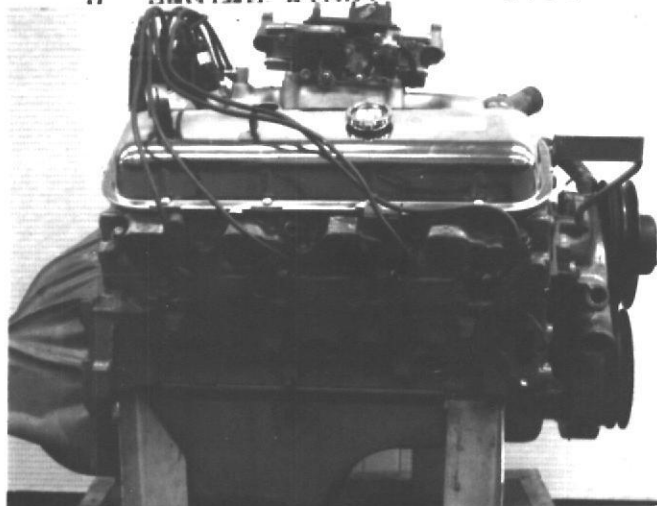
MAKE Chevrolet Camaro

MODEL 12437 - 396

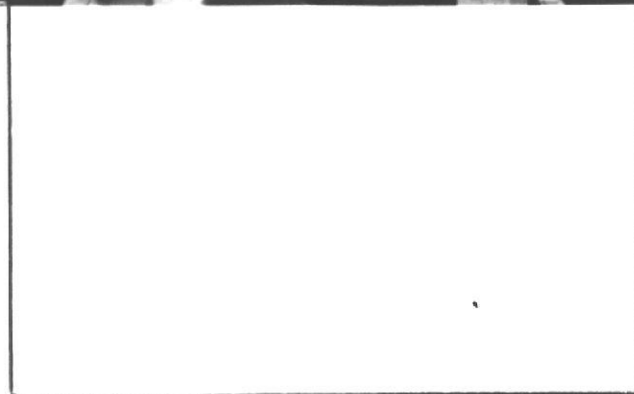
FIA REC # 582

J ENGINE RIGHT (\*\*)

K ENGINE LEFT (\*\*)

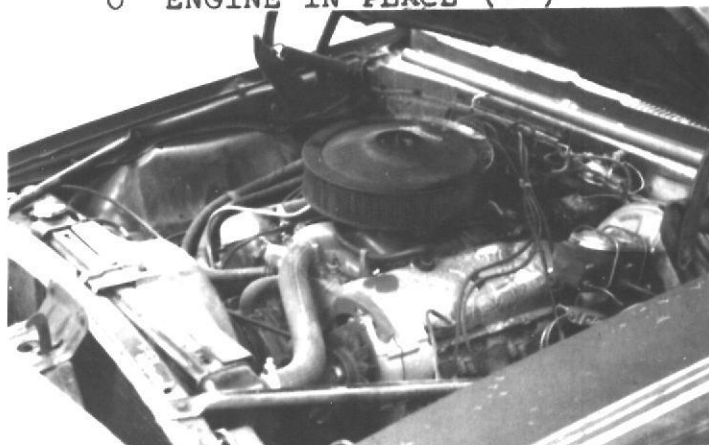


N CARBURETOR (\*)



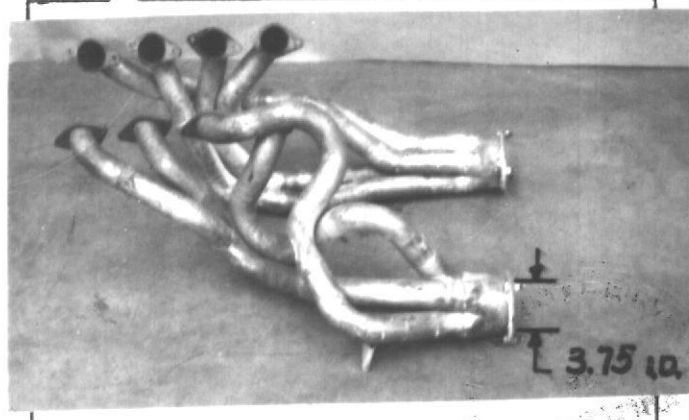
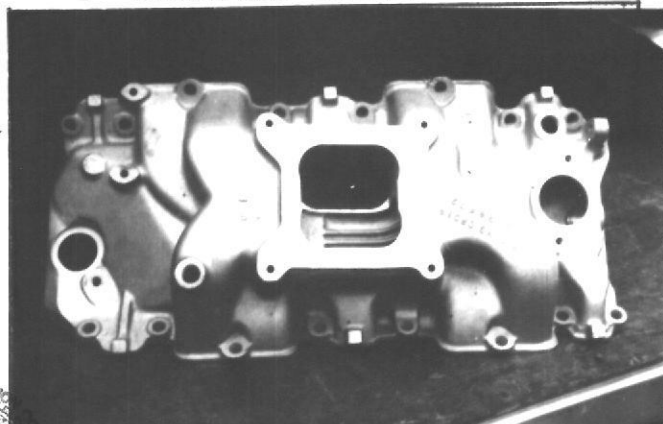
O ENGINE IN PLACE (\*\*)

view from side of manifold



P MANIFOLD INLET

Q MANIFOLD EXHAUST



Strip out: ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES.

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(3)



ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES.

\*Inlet

Manifold

Porting

Cyl.

Head

Face

\*Cylinder

Head

Porting

Inlet

Face

\*Exhaust

Manifold

Porting

Cyl. Head

Face

\*Cylinder

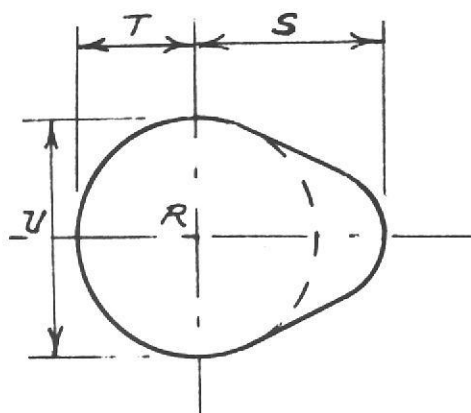
Head

Porting

Exhaust

Face

CAM



Inlet cam

S=            mm            in  
T=            mm            in  
U=            mm            in

Exhaust cam

S=            mm            in  
T=            mm            in  
U=            mm            in

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MAKE Chevrolet Camaro

MODEL

12437 - 396

FIA REC # 582

**IMPORTANT:** Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system.  
See conversion table at index.

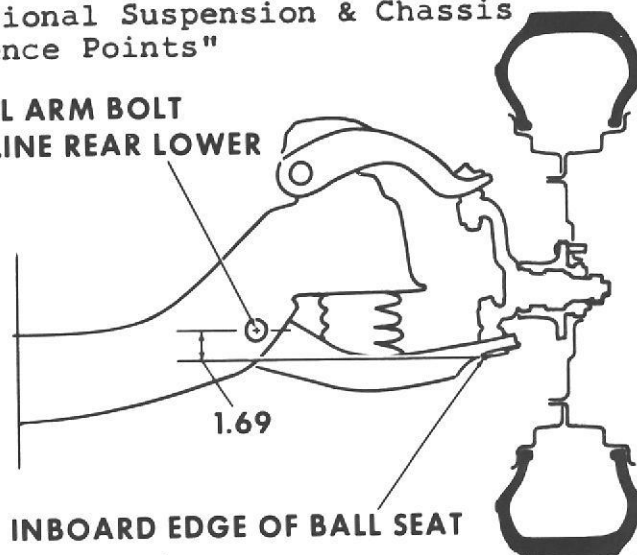
**CAPACITIES & DIMENSIONS**

- |                     |                   |    |            |
|---------------------|-------------------|----|------------|
| (**) 1. Wheelbase   | 2743.2            | mm | 108.0 in   |
| (**) 2. Front track | W/6.00 Rim 1504.9 | mm | 59.25 in + |
| (**) 3. Rear track  | W/6.00 Rim 1479.5 | mm | 58.25 in + |
- + Differences in track resulting from use of optional wheel and rim sizes must be stipulated on recognition application forms.

Dimensional relationship between track (front and/or rear) and ground clearance resulting from use of optional wheel sizes shall also be stipulated and a sketch illustrating suspension reference points shall be shown below to establish the "reference chassis height." The reference chassis height dimension is to be used only when checking track and shall not affect eligibility of car in any manner.

Sketch, Ground Clearance: Dimensional Suspension & Chassis Reference Points"

CONTROL ARM BOLT  
CENTER LINE REAR LOWER



LOWER INBOARD EDGE OF BALL SEAT

NOTE: Rear track unaffected by changes in car height.

- |   |                         |               |          |
|---|-------------------------|---------------|----------|
| 4. Overall length of car                    | 469.14                  | cm            | 184.7 in |
| 5. Overall width of car                     | 184.15                  | cm            | 72.5 in  |
| 6. Overall height of car                    | 130.56                  | cm            | 51.4 in  |
| 7. Capacity of fuel tank (reserve included) | 70.0 or 140.0           | ltrs.         |          |
| 18 gal - 37 gal (opt.)                      | gallons US 15.4 or 30.8 | gallons, Imp. |          |
| 8. Seating capacity                         | 4                       |               |          |
- (\*\*) 9. Weight - total weight of car with normal equipment, water, oil and spare wheel but without fuel or repair tools.

1247 kg 2750 lbs

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CHASSIS & BODYWORK - Photos A, B, C

- (\*\*) 20. Chassis/body construction - separate/unit construction - unit
- (\*\*) 21. Unit construction - material/s stamped steel
- (\*\*) 22. Chassis - material/s separate construction
- (\*\*) 23. Body - material/s separate construction
- (\*\*) 24. Doors - number 2 material/s steel
- (\*\*) 25. Hood - material/s steel
- (\*\*) 26. Trunk Lid - material/s steel
- 27. Window, Rear - material/s tempered glass
- 28. Windshield - material/s laminated safety plate glass
- 29. Windows, front door - material/s tempered glass
- 30. Windows, rear door - material/s
- 31. Windows - actuating system sector gear and linkage
- 32. Window, rear quarter - material/s tempered glass

ACCESSORIES AND UPHOLSTERY

- 38. Heating, interior - yes no optional
- 39. Air conditioning - yes no optional
- 40. Ventilation - yes x no
- (\*) 41. Seats, front - type of seat and upholstery -
- 42. Seats, front - weight  
 (complete with supports & rails out of car) 17.5 kg 38.6 lbs  
 CHECK: BENCH \_\_\_\_\_ BUCKET X CONSOLE INCLUDED No **EACH**
- 43. Seats, rear - type of seat and upholstery bench, cloth trimmed
- 44. Bumper, front - material/s steel kg 9.62lbs 21.3 Weight
- 45. Bumper, rear - material/s steel kg 7.3 lbs 16.2 Weight

WHEELS

- 50. Type pressed steel
- 51. Weight (per wheel, without tire) kg 7.3 lbs 16.2
- 52. Method of attachment 5 - lug bolts
- 53. Rim, diameter 381.0 mm 15.0 in
- 54. Rim, width 152.4 mm 6.0 in

STEERING

- 60. Type Recirculating ball
- 61. Servo assistance hydraulic - engine driven vane pump
- 62. Number of turns of steering wheel from lock to lock 3.5
- 63. In case of servo assistance 3.0

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SUSPENSION

- (\*\*) 70. Suspension, front (photo D) - type short and long arm independent  
 (\*\*) 71. Spring - type coil  
 ( ) 72. Stabilizer - if fitted  
 73. Shock absorbers - number two (2)  
 74. Type direct acting - tubular  
 (\*\*) 78. Suspension, rear (photo E) - type Hotchkiss  
 (\*\*) 79. Spring - type leaf  
 ( ) 80. Stabilizer - if fitted  
 81. Shock absorbers - number two (2)  
 82. Type direct acting tubular

BRAKES (Photos E and F)

- (\*\*) 90. Method of operation hydraulic  
 ( ) 91. Power assisted (if fitted) - type  
 92. Master Cylinders - number and type one (1) - dual  
 (indicate if duplex master cylinder) Front Rear  
 93. Cylinders - number per wheel 4 1  
 94. Cylinders - wheel bore 47.62 mm 1.875 in 22.3 mm .875 in  
 (indicate stepped bore dimensions if applicable)

Drum Brakes

	<u>Front</u>	<u>Rear</u>
95. Diameter, inside	mm 124.3 mm 9.5 in	
96. Linings, length	mm 147.5 mm 18.7 in	
97. Linings, width	mm 150.8 mm 2.0 in	
98. Shoes - number per brake		
99. Area, total - per brake	mm <sup>2</sup> 12419 mm <sup>2</sup> 37.5 in <sup>2</sup>	

Disc Brakes

100. Diameter, outside	279.4 mm 11.0 in	mm	in
101. Thickness of disc	25.4 mm 1.0 in	mm	in
102. Lining - length	151.4 mm 5.9 in	mm	in
103. Lining - width	56.1 mm 2.2 in	mm	in
104. Pads - number per brake two (2)			
105. Area, total - per brake	1303.6 mm <sup>2</sup> 21.4 in <sup>2</sup>	mm <sup>2</sup>	in <sup>2</sup>



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MAKE Chevrolet  
Camaro MODEL 12437-396 FIA REC # 582

ENGINE (Photos J and K)

(\*\*) 130. Cycle two four X Wankel  
(\*\*) 131. Cylinders - number eight (8)  
(\*\*) 132. Cylinders - arrangement Vee Wankel - # of elements and basic dimensions  
(\*\*) 133. Bore 103.98 mm 4.094 in  
(\*\*) 134. Stroke 95.51 mm 3.76 in  
(\*\*) 135. Cylinders - capacity 811.2 cm3 49.5 in3  
(\*\*) 136. Cylinders, total capacity 6490.8 cm3 396 in3  
(\*\*) 137. Cylinder Block - material/s cast iron  
(\*\*) 138. Sleeves - material/s (if fitted) none  
(\*\*) 139. Head, cylinder - material/s aluminum/c.i. number fitted two (2)  
(\*\*) 140. Port, inlet - number eight (8)  
(\*\*) 141. Port, exhaust - number eight (8)  
(\*) 142. Compression - ratio  
(\*) 143. Combustion chamber - volume cm3 in3  
(\*) 144. Piston - material/s  
(\*) 145. Rings - number  
(\*) 146. Distance from gudgeon pin centre line to highest point of piston crown mm in  
(\*\*) 147. Crankshaft - cast-forged-mach from solid-forged  
(\*\*) 148. Crankshaft - type - integral X - sectioned - # of sections  
(\*\*) 149. Crankshaft, main bearings - number five (5)  
(\*\*) 150. Bearing cap - material/s cast iron  
151. Lubrication - system - dry sump/oil in sump X  
152. Lubricant - capacity 6.62 ltrs 14 pts 7 qts US  
(\*) 153. Cooler, oil - yes no  
154. Cooling - method water  
155. Cooling - capacity of system 22.7 ltrs 48 pts 24 qts US

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Chevrolet  
MAKE Camaro MODEL 12437-396 FIA REC # 582

- ( \*) 156. Fan, cooling (if fitted) - diameter cm in  
( \*) 157. Fan, cooling - number of blades material/s

BEARINGS

- (\*\*) 158. Crankshaft, main - type insert diameter 69.85 mm 2.75 in  
(\*\*) 159. Connecting rod, big end - type insert diameter 55.9 mm 2.201 in

WEIGHTS

- ( \*) 160. Flywheel (clean) kg lbs  
( \*) 161. Flywheel with clutch (all rotating parts) kg lbs  
( \*) 162. Crankshaft kg lbs  
163. Connecting Rod kg lbs  
( \*) 164. Piston with rings & pin kg lbs

FOUR CYCLE ENGINES

- (\*\*) 170. Camshafts - number one (1) material/s cast alloy iron  
(\*\*) 171. Camshaft - location cylinder block  
(\*\*) 172. Camshaft Drive, type chain and sprocket - gear opt.  
(\*\*) 173. Valve operation - type pushrod

INLET (See Photo P ) (for addtl info re 2 stroke engines and super charged, see page 15)

180. Inlet manifold - materials aluminum  
181. Valves (overall) - diameter 55.8 mm 2.20 in  
( \*) 182. Valve lift - maximum mm in  
183. Springs, valve - number 8 + 8 inner with dampers  
184. Spring - type coil  
(\*\*) 185. Valves, per cylinder - number one (1)  
( \*) 186. Tappet - clearance for checking timing (cold) mm in  
( \*) 187. Valves - open at (with tolerance for tappet clearance indicated) BTC  
( \*) 188. Valves - close at (with tolerance for tappet clearance indicated) ABC  
( \*) 189. Air filter - type

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EXHAUST (See Photo Q )

- 195. Manifold, exhaust - material/s steel tubing
- 196. Valves (overall) - diameter 46.73 mm 1.84 in
- 197. Valve, lift - maximum 1.32 mm .520 in
- 198. Valve Springs/valve - number 8 + 8 inner with dampers
- 199. Springs - type coil
- (\*\*) 200. Valves - number per cylinder one (1)
- (\*) 201. Tappet - clearance for checking timing (cold)  
mm in
- (\*) 202. Valves - open at (with tolerance for tappet clearance indicated) BBC
- (\*) 203. Valves - close at (with tolerance for tappet clearance indicated) ATC

CARBURETION (See Photo N)

- 210. Carburetors, fitted - number one (1)
- 211. Type downdraft
- (\*) 212. Make
- (\*) 213. Model
- 214. Carburetors - number of mixture passages four (4)
- (\*) 215. Carburetor - flange hole diameter of exit port  
mm in
- 216. Venturi - throat diameter+ mm in

INJECTION

- 220. Pump - make
- 221. Plungers - number N. A.
- (\*) 222. Pump - model
- 223. Injectors - location
- 224. Injectors - total number
- (\*) 225. Inlet pipe - minimum diameter mm in

+ For variable throat type carburetors, indicate minimum lift of shutter mechanism such as pistons in S.U.

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MAKE Chevrolet CamaroMODEL 12437-396

FIA REC #

582ENGINE ACCESSORIES

- ( \*) 230. Pump, fuel - mechanical and/or electrical
231. Number fitted one
232. Ignition system - type coil or transistor
233. Distributors - number one (1)
234. Coils, ignition - number one (1)
235. Spark plugs - number per cylinder one (1)
236. Generator (or Alternator) - number fitted one (1)
237. Drive - method belt
238. Voltage, generator - volts 12
239. Battery - number one (1)
240. Location in trunk
241. Voltage - volts 12 amp hrs - 45

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

- ( \*) 250. Horsepower - maximum engine output at rpm  
(indicate SAE or DIN)
- ( \*) 251. RPM - maximum output at that figure
- ( \*) 252. Torque - maximum at rpm
- ( \*) 253. Speed - maximum km/hour miles/hour

DRIVE TRAINClutch

260. Type dry plate
261. Plates - number of driven one (1)
262. Plates - diameter 26.416 cm 10.4 in
263. Linings - diameter - inside 16.51 cm 6.5 in
- Linings - diameter - outside 26.41 cm 10.4 in
264. Method of operation mechanical

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Gear Box (Photo H)

- (\*\*) 270. Manual type - make Chevrolet
- (\*\*) 271. Ratios, forward - number four (4)
272. Ratios, forward - number synchronized four (4)
273. Gear-Shift - location floor optional
- (\*\*) 274. Automatic - make hydramatic type torque converter
- (\*\*) 275. Ratios, forward - number three (3)
276. Gear-Shift - location floor

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth
1	2.20	$\frac{27}{26} \times \frac{36}{17}$	2.48		2.52	$\frac{25}{21} \times \frac{36}{17}$	2.34	$\frac{27}{26} \times \frac{36}{16}$
2	1.64	$\frac{27}{26} \times \frac{30}{19}$	1.48		1.88	$\frac{25}{21} \times \frac{30}{19}$	1.53	$\frac{27}{26} \times \frac{28}{19}$
3	1.27	$\frac{27}{26} \times \frac{27}{22}$	1.00		1.47	$\frac{25}{21} \times \frac{27}{22}$	1.18	$\frac{27}{26} \times \frac{25}{22}$
4	1.00	---			1.00	---	1.00	
5								
6								
reverse	2.26	X	2.08		2.59	$\frac{25}{21} \times \frac{18}{17} \times \frac{35}{17}$	2.26	

278. Overdrive - type N. A.

279. Forward gears on which overdrive can be selected

280. Overdrive - ratio

FINAL DRIVE

- (\*\*) 290. Type Hypoid
- (\*\*) 291. Differential - type positraction
- (\*\*) 292. Limited Slip Differential (if fitted) - type  $\neq$  friction
293. Ratio 2.73 3.07 3.31 3.55 3.7 4.1 4.56 4.88  
 41/15 43/14 43/13 39/11 37/10 41/10 41/9 39/8  
 Teeth - number

(  $\neq$  ) Specify friction or positive locking type  
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IMPORTANT

The conformity of the car with the following items of the present recognition form is to be disregarded during the technical inspection when the vehicle has been entered in Group II (Touring Cars) or III (Grand Touring Cars):  
41, 72, 80, 91, 142, 143, 144, 145, 146, 153, 156, 157, 160, 161, 162, 163, 164, 182, 186, 187, 188, 189, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 250, 251, 252, 253, 255, photos I, M, N & items on page 5 as indicated.

During the technical inspection of cars entered in Group IV (Sports Cars) 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, 147, 148, 149, 150, 158, 159, 170, 171, 172, 173, 185, 200, 270, 271, 274, 275, 290, 291, 292 & photos A, B, D, E, F, G, H, J, K, O.

Optional equipment affecting preceding information:

CATALOGUE PART NUMBER MUST BE GIVEN

Optional Axle Ratios

Part # 3931564 - 3.23 Differential ratio 13/42  
3931565 - 3.42 Differential ratio 12/41  
3931566 - 3.90 Differential ratio 10/39  
3931567 - 4.33 Differential ratio 9/39

Optional Auxiliary Fuel Tank

Part # 3938924 - 37 gallon capacity (see page 5)

Optional Wheels

Part # 3931546 - 15" X 7" 381 mm X 178 mm  
3931547 - 15" X 8" 381 mm X 203.2 mm  
3940095 - 15" X 9" 381 mm X 228.6 mm

## Track

Front	Rear	
61.5	60.5	19.1 Lbs 8.6 kg
61.5	60.5	19.25 " 8.73 "
61.5	60.5	19.6 " 8.9 "

Bucket Seats (Items 41 and 42) optional

Part # 3931548 - Weight comp. out of car 9.97 K6 - 22.0 lbs.

Optional-Air Cleaner & Duct Assy

Part # 6424495 - Cleaner  
3916621 - Duct

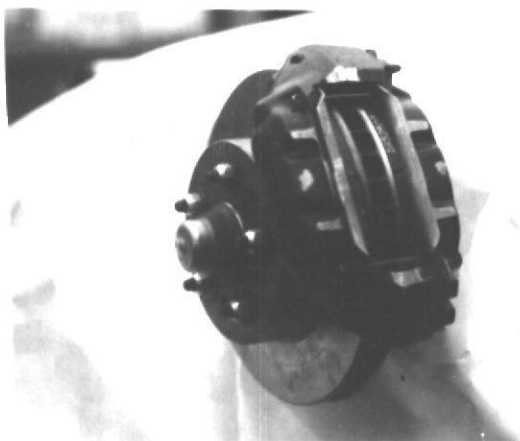
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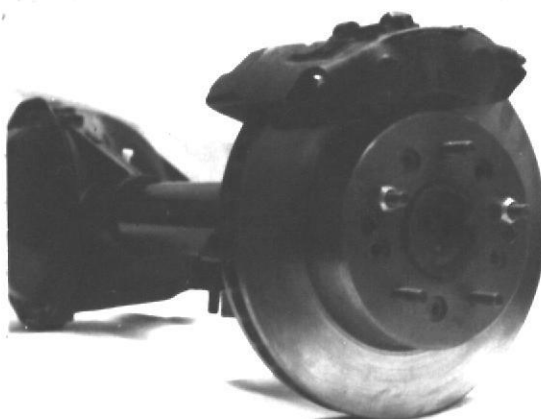
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F. Brake Front



G. Brake Rear



RPO J 56 Heavy Duty Disc Brakes - Optional

Item

93.	Cylinders - Number per wheel - Front - 4	Rear - 4	
94.	Cylinders - Wheel Bore - Front 1.875 in.	47.6 MM	
	Rear 1.375 in.	35.0 MM	
100.	Disc Dia. outside	Front 11.75 in. - 298.4 MM	Rear 11.75 in. - 298.4 MM
101.	Thickness of Disc	1.25 in. - 31.75MM	1.25 in. - 31.75MM
102.	Lining Length	5.96 in. - 151.4 MM	5.96 in. - 151.4 MM
103.	Lining Width	2.21 in. - 56.1 MM	2.21 in. - 56.1 MM
104.	Pads - Number per Brake	2	2
105.	Area, total - per brake	26.3 in <sup>2</sup> - 1696.8 MM <sup>2</sup>	26.3 in <sup>2</sup> - 1696.8 MM <sup>2</sup>

Item

230. Pump fuel - electrical #AC-EP-12 Optional

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