



CHEVROLET - CORVETTE STING RAY

1/68

583

MARQUE ET MODELE

VALIDITE HOMOLOGATION

FICHE NR.

Homologation 7000cc + 7000cc  
5000cc

3 / 4000

GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES
1/8V	7/68	CARROSSERIE - POIDS - AILES ELARGIES	
2/2V		VALIE - POIDS - JANTE - BLOC MOTEUR - COUPLE FINAL	
3/3V	1/69	CARROSSERIE - RAPPORT CARROSSERIE - AXE AV/AR - FREIN - BOITE A VITESSES -	
4/4V		CARROSSERIE - MOTEUR 7165cc REFROIDISSEMENT DIFFERENTIEL PAR <del>EAU</del> HUILE	
5/5V	1/73	CARROSSERIE - CARTER SEL	
6/6E	4/74	CARROSSERIE	
7/6V	4/77	MODELE AVEC MOTEUR 5135cc	

Autres homologations du modèle

Vérifiée le 26/10/90 par [Signature] visée ce jour le \_\_\_\_\_ par \_\_\_\_\_



AUTOMOBILE COMPETITION COMMITTEE  
FOR THE UNITED STATES, INC.

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

5813

Group IV

Federation Internationale de l'Automobile  
FORM OF RECOGNITION

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

Cylinder capacity 6007 cm3 427 in3

Manufacturer Chevrolet Model 19467 Corvette Sting Ray

Serial # Chassis 194678S100001 Manufacturer Chevrolet

Serial # Engine T 1001 IT Manufacturer Chevrolet

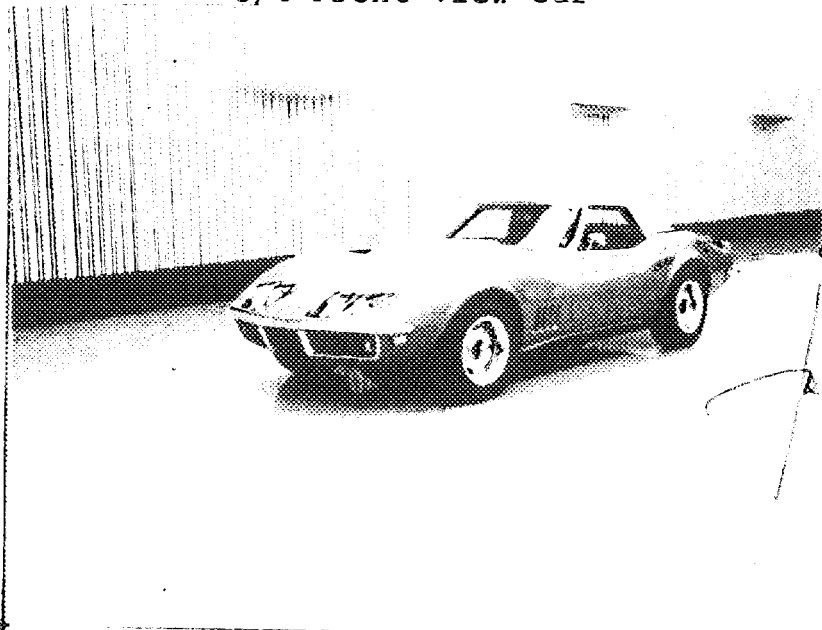
Recognition valid from 11 Jan 1968 List 1968/

The manufacturing of the model described in this recognition form was started on August 1 and the minimum production of 500 identical cars, in accordance with the specifications of this form, was reached on November 1, 19 67.

(\*) 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. CLIVEAU  
TECHNICAL DIRECTOR  
ACCUS, F.I.A. INC.

Stamp/Signature  
F.I.A.

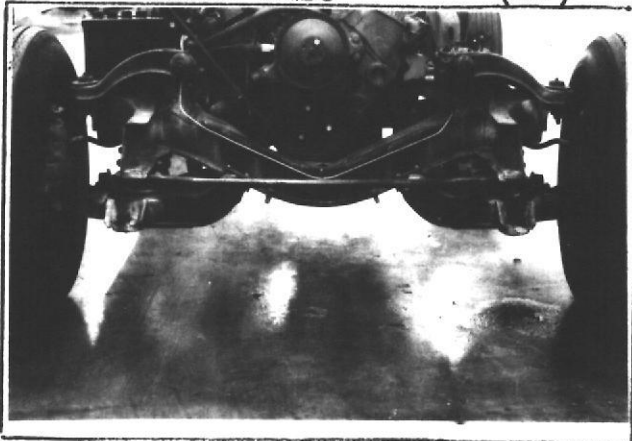
B 3/4 rear car (\*\*)



C interior-car (\*\*)



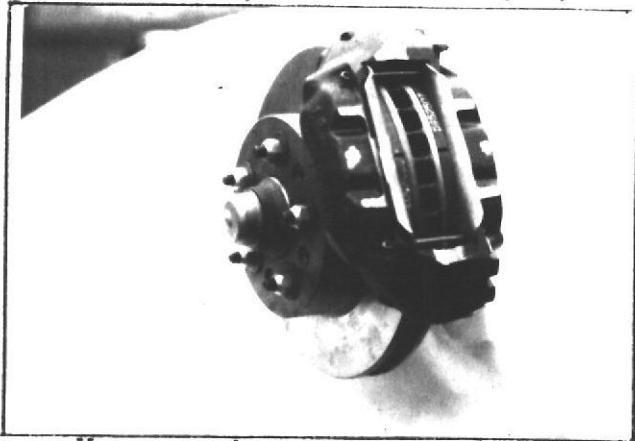
D front axle (\*\*)



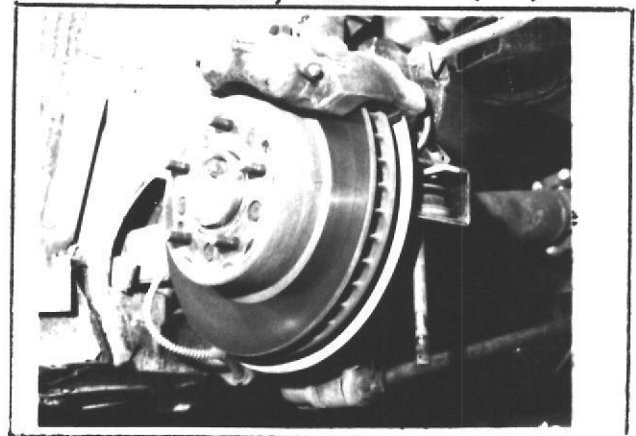
E rear axle (\*\*)



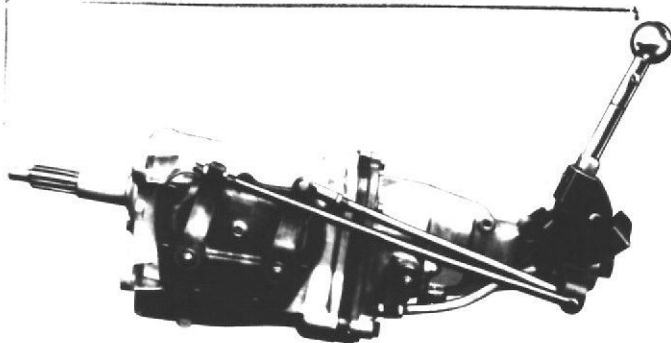
F brake, front (\*\*)



G brake, rear (\*\*)



H gear box (\*\*)



I exhaust system (\*)

muffler and exhaust pipes  
after exhaust manifold

Not required.

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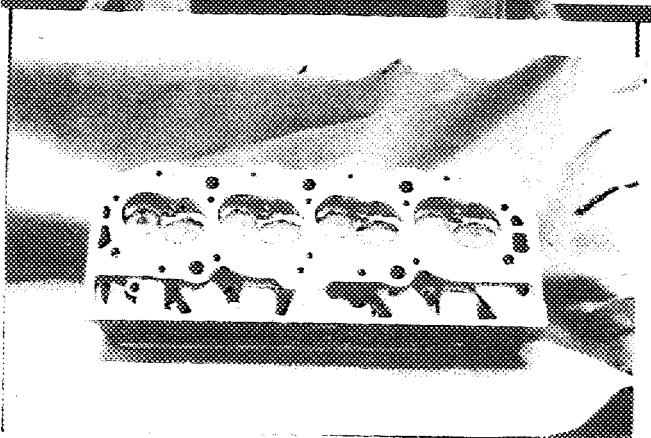
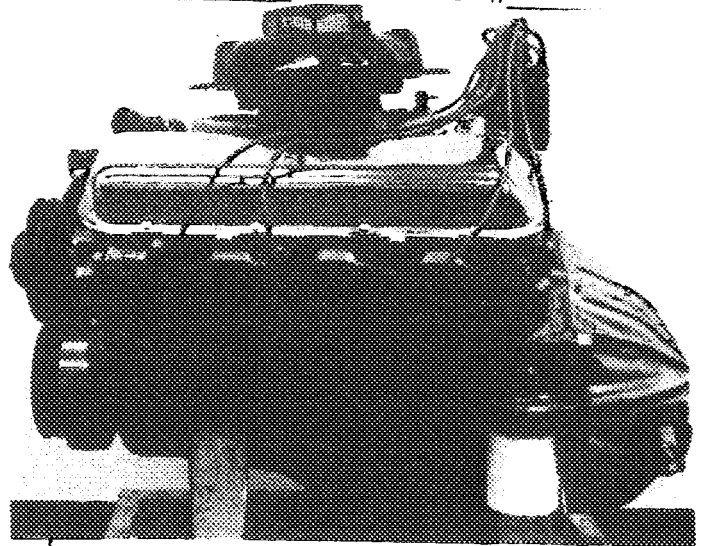
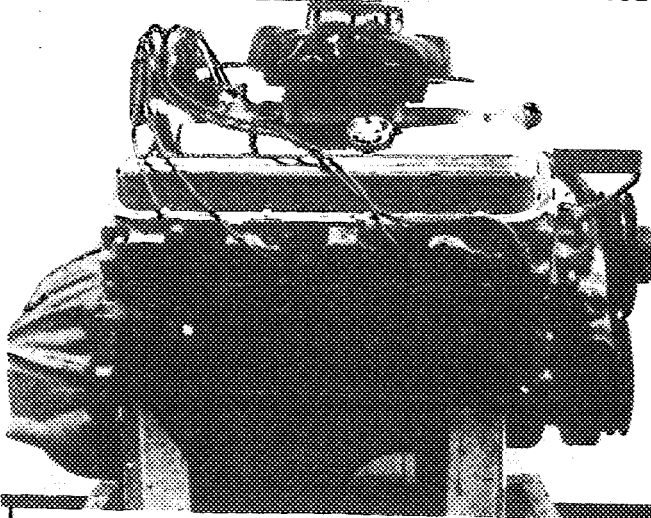
MAKE

Chevrolet

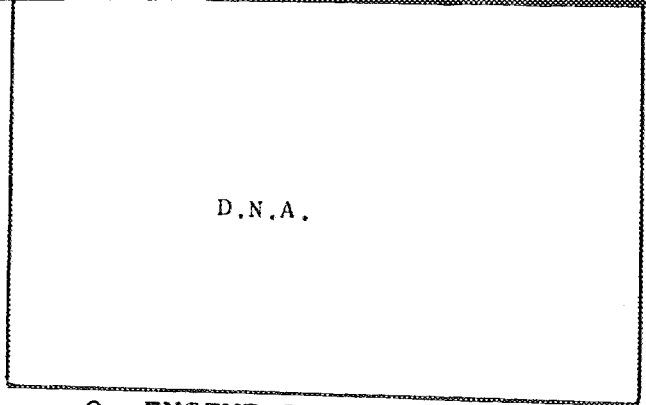
MODEL

Corvette

FIA REC #

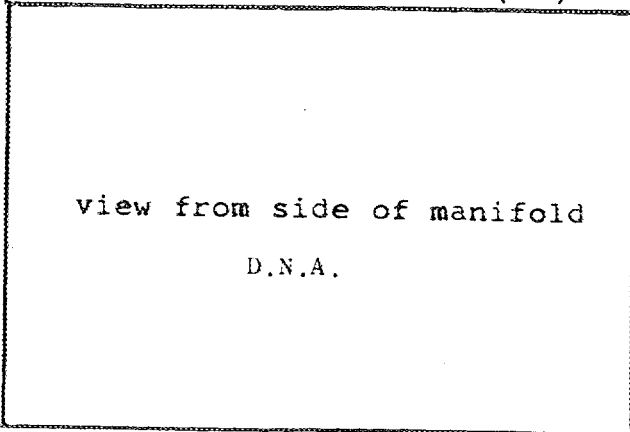


N CARBURETOR (\*)



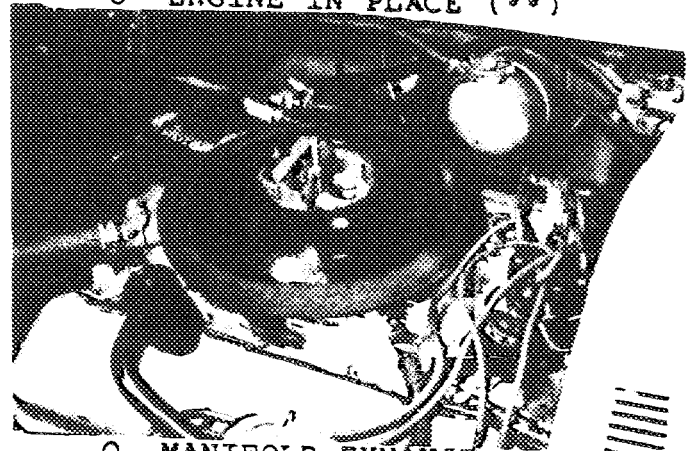
D.N.A.

O ENGINE IN PLACE (\*\*)



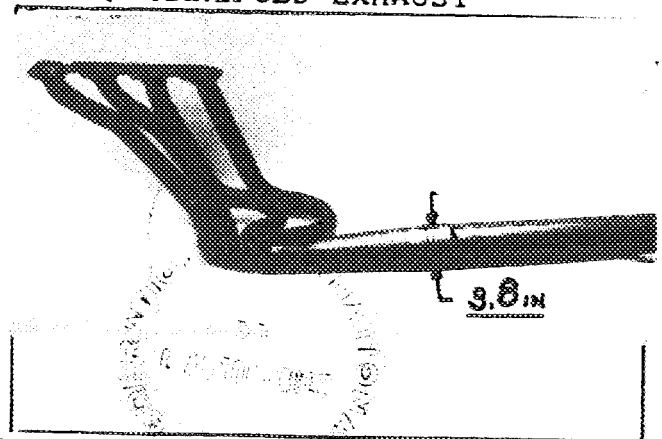
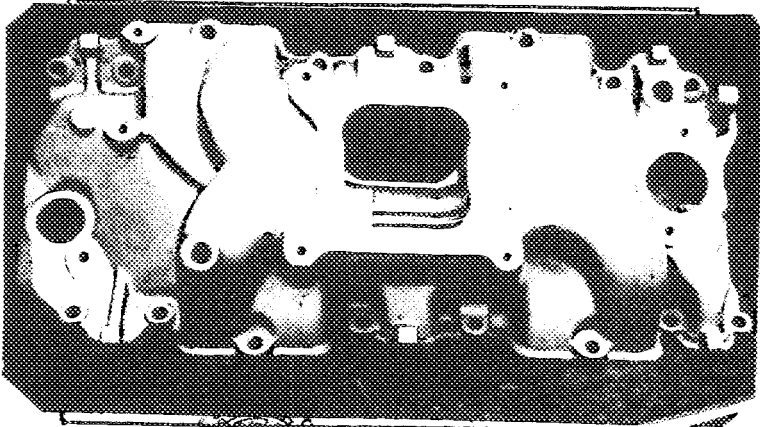
view from side of manifold

D.N.A.

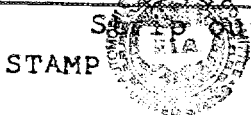


Q MANIFOLD EXHAUST

P MANIFOLD INLET



3.8 IN



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

STAMP

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

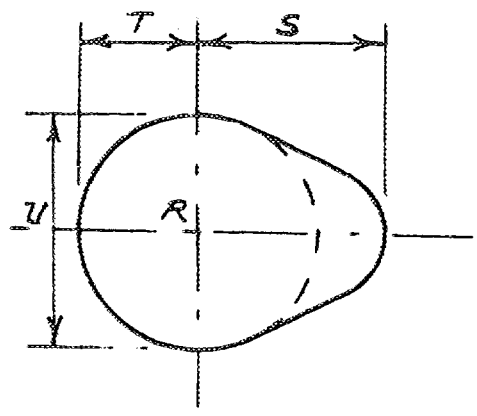
◦ Inlet  
 Manifold  
 Porting  
 Cyl. D. N. A.  
 Head  
 Face

◦ Cylinder  
 Head  
 Porting  
 Inlet D. N. A.  
 Face

◦ Exhaust  
 Manifold  
 Porting  
 Cyl. Head D. N. A.  
 Face

◦ Cylinder  
 Head  
 Porting  
 Exhaust D. N. A.  
 Face

CAM



Inlet cam

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

Exhaust cam

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

D. N. A.

STAMP



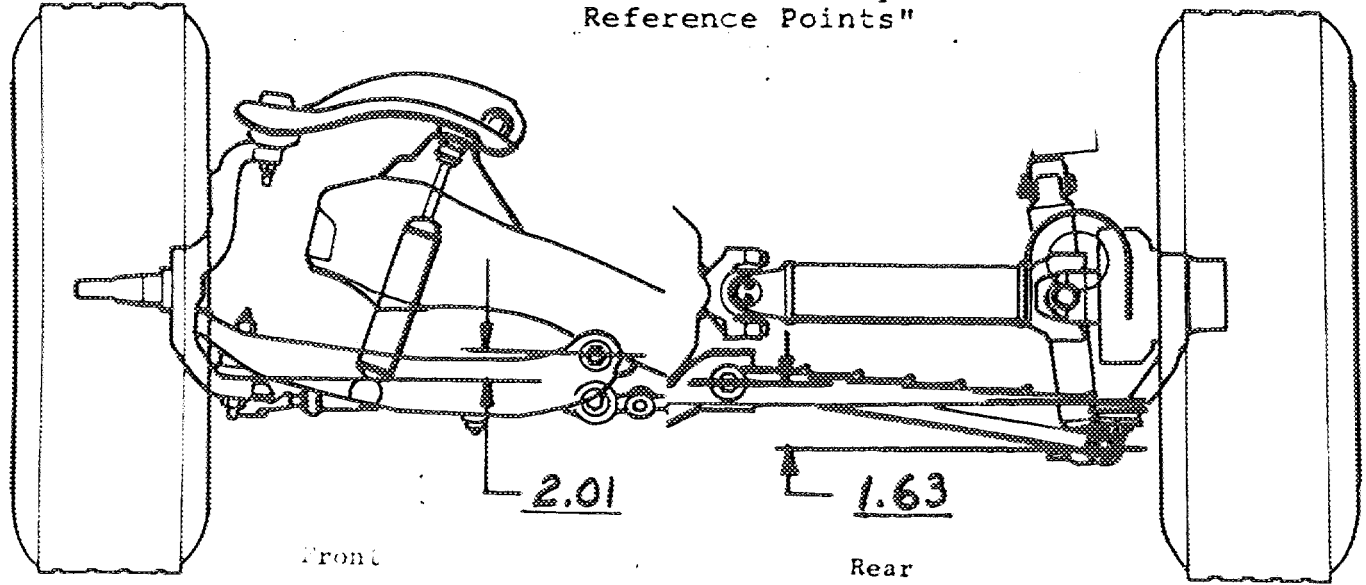
**IMPORTANT:** Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system. See conversion table at index.

CAPACITIES & DIMENSIONS

- (\*\*) 1. Wheelbase 2489.2 mm 98.0 in
  - (\*\*) 2. Front track 1480.8 mm 58.3 in +
  - (\*\*) 3. Rear track 1498.6 mm 59.0 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"



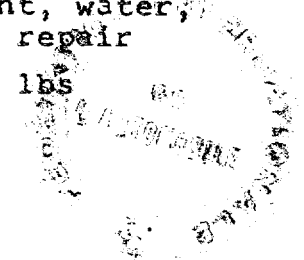
- 4. Overall length of car 462.5 cm 182.1 in
- 5. Overall width of car 180.2 cm 71.0 in
- 6. Overall height of car 121.4 cm 47.8 in
- 7. Capacity of fuel tank (reserve included) 75.7 ~~gallons~~\* ltrs.  
20.0 ~~gallons~~ gallons US 16.6 ~~gallons~~ gallons, Imp.
- 8. Seating capacity 2
- (\*\*) 9. Weight - total weight of car with normal equipment, water, oil and spare wheel but without fuel or repair tools. 1260 kg 2776 lbs

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~~\*See optional equipment fuel tank.~~

*John A. Clonan*



CHASSIS & BODYWORK - Photos A, B, C

- (\*\*) 20. Chassis/body construction - separate/unit construction Separate
- (\*\*) 21. Unit construction - material/s
- (\*\*) 22. Chassis - material/s separate construction Steel
- (\*\*) 23. Body - material/s separate construction Fiberglass
- (\*\*) 24. Doors - number 2 material/s Fiberglass & Steel reinforced
- (\*\*) 25. Hood - material/s Fiberglass
- (\*\*) 26. Trunk Lid - material/s None used
- 27. Window, Rear - material/s Safety Plate Glass
- 28. Windshield - material/s Laminated Safety Plate Glass
- 29. Windows, front door - material/s Safety Plate Glass
- 30. Windows, rear door - material/s None
- 31. Windows - actuating system Sector Gear & Linkage
- 32. Window, rear quarter - material/s None

ACCESSORIES AND UPHOLSTERY

- 38. Heating, interior - yes X no Optional
- 39. Air conditioning - yes X 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) 9.97 kg 22 lbs
- CHECK: BENCH \_\_\_\_\_ BUCKET X CONSOLE INCLUDED \_\_\_\_\_
- 43. Seats, rear - type of seat and upholstery
- 44. Bumper, front - material/s Steel kg 4.44lbs 9.75 Weight
- 45. Bumper, rear - material/s Steel kg 3.08lbs 6.75 Weight

WHEELS

- 50. Type Pressed Steel
- 51. Weight (per wheel, without tire) kg 7.3 lbs 16.2
- 52. Method of attachment Five Log Bolts
- 53. Rim, diameter 381.0 mm in 15.0
- 54. Rim, width 177.8 mm in 7.0

STEERING

- 60. Type Parallel Relay
- 61. Servo assistance Optional
- 62. Number of turns of steering wheel from lock to lock 2.92
- 63. In case of servo assistance 2.92

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SUSPENSION

- (\*\*) 70. Suspension, front (photo D) - type Independent, Short-Long Arm
- (\*\*) 71. Spring - type Coil
- (\*) 72. Stabilizer - if fitted
- 73. Shock absorbers - number two (2)
- 74. Type Direct acting - Telescoping
- (\*\*) 78. Suspension, rear (photo E) - type Full independent - Fixed Differen
- (\*\*) 79. Spring - type Multi-Leaf (Transversely Mounted)
- (\*) 80. Stabilizer - if fitted
- 81. Shock absorbers - number 2
- 82. Type Direct acting - Telescoping

BRAKES (Photos E and F)

- (\*\*) 90. Method of operation Caliper Disc - Foot Operated Hydraulic
- (\*) 91. Power assisted (if fitted) - type
- 92. Master Cylinders - number and type One - Duplex  
(indicate if duplex master cylinder) Front Rear
- 93. Cylinders - number per wheel 4 4
- 94. Cylinders - wheel bore 47.6 mm 1.875in 35.0mm 1.375in  
(indicate stepped bore dimensions if applicable)

Drum Brakes

	<u>Front</u>		<u>Rear</u>	
	mm	in	mm	in
95. Diameter, inside				
96. Linings, length	mm	in	mm	in
97. Linings, width	mm	in	mm	in
98. Shoes - number per brake				
99. Area, total - per brake	mm <sup>2</sup>	in <sup>2</sup>	mm <sup>2</sup>	in <sup>2</sup>

Disc Brakes

100. Diameter, outside	298.4 mm	11.75in <sub>208</sub>	mm	11.75in
101. Thickness of disc	31.75 mm	1.25in <sub>31.75</sub>	mm	1.25in
102. Lining - length	151.4 mm	5.96in <sub>151</sub>	mm	5.96in
103. Lining - width	56.1 mm	2.21in <sub>56</sub>	mm	2.21in
104. Pads - number per brake		2		2
105. Area, total - per brake	1696.8 mm <sup>2</sup>	26.3in <sup>2</sup> <sub>1696</sub>	mm <sup>2</sup>	26.3in <sup>2</sup>

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MAKE Chevrolet MODEL Corvette FIA REC # \_\_\_\_\_

ENGINE (Photos J and K)

- (\*\*) 130. Cycle two x four Wankel
- (\*\*) 131. Cylinders - number 8
- (\*\*) 132. Cylinders - arrangement 90° VEE Wankel - # of elements and basic dimensions
- (\*\*) 133. Bore 108.0 mm 4.25 in
- (\*\*) 134. Stroke 95.5 mm 3.76 in
- (\*\*) 135. Cylinders - capacity 873.4 cm<sup>3</sup> 53.3 in<sup>3</sup>
- (\*\*) 136. Cylinders, total capacity 6998.5 cm<sup>3</sup> 427 in<sup>3</sup>
- (\*\*) 137. Cylinder Block - material/s Cast Iron Alloy
- (\*\*) 138. Sleeves - material/s (if fitted) None
- (\*\*) 139. Head, cylinder - material/s Aluminum/C.I. number fitted 2
- (\*\*) 140. Port, inlet - number 8
- (\*\*) 141. Port, exhaust - number 8
- ( \*) 142. Compression - ratio D.N.A.
- ( \*) 143. Combustion chamber - volume cm<sup>3</sup> in<sup>3</sup> D.N.A.
- ( \*) 144. Piston - material/s D.N.A.
- ( \*) 145. Rings - number D.N.A.
- ( \*) 146. Distance from gudgeon pin centre line to highest point of piston crown D.N.A.  
mm in
- (\*\*) 147. Crankshaft - cast-forged-mach from solid Forged
- (\*\*) 148. Crankshaft - type -x integral - sectioned - # of sections
- (\*\*) 149. Crankshaft, main bearings - number 5
- (\*\*) 150. Bearing cap - material/s Cast Iron
151. Lubrication - system - dry sump/oil in sump oil in sump
152. Lubricant - capacity 6.6 ltrs 14 pts 7 qts US
- ( \*) 153. Cooler, oil - yes no D.N.A.
154. Cooling - method Water
155. Cooling - capacity of system 21.7 ltrs 46 pts 23 qts US

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MAKE Chevrolet MODEL Corvette FIA REC # \_\_\_\_\_

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

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

FOUR CYCLE ENGINES

- (\*\*) 170. Camshafts - number One material/s Cast Alloy Iron  
(\*\*) 171. Camshaft - location Cylinder Block  
(\*\*) 172. Camshaft Drive, type Chain & Sprocket - (Gear Drive Optional)  
(\*\*) 173. Valve operation - type Push Rod & Rocker Arm

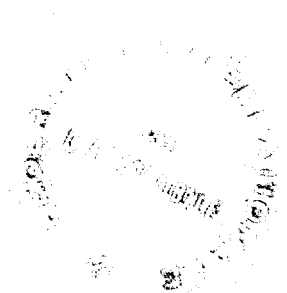
INLET (See Photo P) (for addtl info re 2 stroke engines and super charged, see page 15)

180. Inlet manifold - materials Aluminum  
181. Valves (overall) - diameter 55.8 mm 2.20 in  
(\*) 182. Valve lift - maximum mm in D.N.A.  
183. Springs, valve - number 8 + 8 Inner with Dampers  
184. Spring - type Coil  
(\*\*) 185. Valves, per cylinder - number one  
(\*) 186. Tappet - clearance for checking timing (cold) mm DNA in  
(\*) 187. Valves - open at (with tolerance for tappet D.N.A. clearance indicated)  
(\*) 188. Valves - close at (with tolerance for tappet D.N.A. clearance indicated)  
(\*) 189. Air filter - type D.N.A.

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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 14.7 mm .580 in
198. Valve Springs/valve - number 8 + 8 Inner with Damper
199. Springs - type Coil
- (\*\*) 200. Valves - number per cylinder One
- ( \*) 201. Tappet - clearance for checking timing (cold) D.N.A.  
mm in
- ( \*) 202. Valves - open at (with tolerance for tappet D.N.A.  
clearance indicated)
- ( \*) 203. Valves - close at (with tolerance for tappet D.N.A.  
clearance indicated)

CARBURETION (See Photo N)

210. Carburetors, fitted - number One
211. Type Downdraft
- ( \*) 212. Make D.N.A.
- ( \*) 213. Model D.N.A.
214. Carburetors - number of mixture passages Four
- ( \*) 215. Carburetor - flange hole diameter of exit port  
mm in D.N.A.
216. Venturi - throat diameter+ mm in D.N.A.

INJECTION

220. Pump - make
221. Plungers - number
- ( \*) 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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ENGINE ACCESSORIES

- ( \*) 230. Pump, fuel - mechanical and/or electrical D.N.A.
- 231. Number fitted One/Two
- 232. Ignition system - type coil or transistor
- 233. Distributors - number One
- 234. Coils, ignition - number One
- 235. Spark plugs - number per cylinder One
- 236. Generator (or Alternator) - number fitted One
- 237. Drive - method Belt
- 238. Voltage, generator - volts 12
- 239. Battery - number One
- 240. Location In Rear
- 241. Voltage - volts 12 amp hrs 61

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

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

DRIVE TRAIN

Clutch

- 260. Type Dry Plate
- 261. Plates - number of driven One
- 262. Plates - diameter 26.4 cm 10.4 in
- 263. Linings - diameter - inside 16.5 cm 6.5 in
- Linings - diameter - outside 26.4 cm 10.4 in
- 264. Method of operation Mechanical

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*John A. Clavan*



Gear Box (Photo H)

- (\*\*) 270. Manual type - make Chevrolet
- (\*\*) 271. Ratios, forward - number Four
- 272. Ratios, forward - number synchronized Four
- 273. Gear-Shift - location Floor optional
- (\*\*) 274. Automatic - make N.A. type
- (\*\*) 275. Ratios, forward - number
- 276. Gear-Shift - location

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth
1	2.20	$\frac{27}{26} \times \frac{36}{17}$			2.34	$\frac{27}{26} \times \frac{36}{16}$	2.20	$\frac{27}{26} \times \frac{36}{17}$
2	1.64	$\frac{27}{26} \times \frac{30}{19}$			1.53	$\frac{27}{26} \times \frac{28}{19}$	1.43	$\frac{27}{26} \times \frac{29}{21}$
3	1.27	$\frac{27}{26} \times \frac{27}{22}$			1.18	$\frac{27}{26} \times \frac{25}{22}$	1.19	$\frac{27}{26} \times \frac{25}{22}$
4	1.00				1.00		1.00	
5								
6								
reverse	2.26				2.26		2.26	

- 278. Overdrive - type N.A.
- 279. Forward gears on which overdrive can be selected
- 280. Overdrive - ratio

FINAL DRIVE

- (\*\*) 290. Type Hypoid Ring Gear & Pinion
- (\*\*) 291. Differential - type Limited Slip
- (\*\*) 292. Limited Slip Differential (if fitted) - type  $\neq$  Friction
- 293. Ratio 2.73 2.92 3.08 3.36 3.55 3.70 4.11 4.56 4.88
- Teeth - number  $\frac{41}{15}$   $\frac{41}{14}$   $\frac{37}{12}$   $\frac{37}{11}$   $\frac{32}{9}$   $\frac{37}{10}$   $\frac{41}{10}$   $\frac{41}{9}$   $\frac{39}{8}$
- (  $\neq$  ) 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

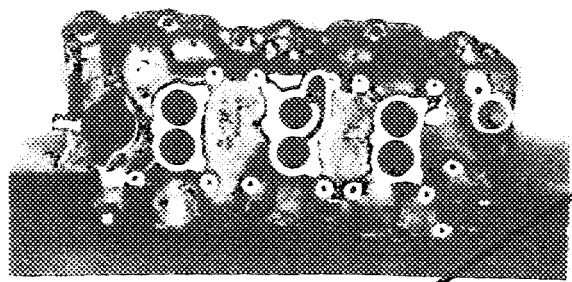
Part # 3937876

*Free*

Fuel tank 42.2 gal. - Optional

P - Manifold Inlet

80.  
 Manifold Inlet - Optional  
 Part # 3928514



Material - Aluminum

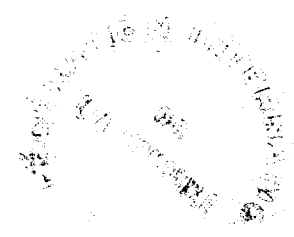
Part #	Optional Wheels		Track	
	Frnt.	Rear	Frnt.	Rear
3940123	- 15 X 8.5 in.	- 581 MM X 215.9 MM	58.7 in.	1491.0MM 60.9 1546.
3940124	- 15 X 9 in.	- 381 MM X 228.6 MM	60.24 in	1530.1MM 60.94 1547.

50. Type - Forged aluminum or magnesium.

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*John A. Oliver*

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MAKE Chevrolet MODEL Corvette FIA REC NO 583 1/V1



1/7/68 68/8

Telephone: (203) 348-6233

Cable Address: "ACCUSFIA" Stamford, Conn.

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

433 MAIN STREET, STAMFORD, CONN. 06901

VARIANT FORM - In accordance with Appendix "J" of the International Sporting Code

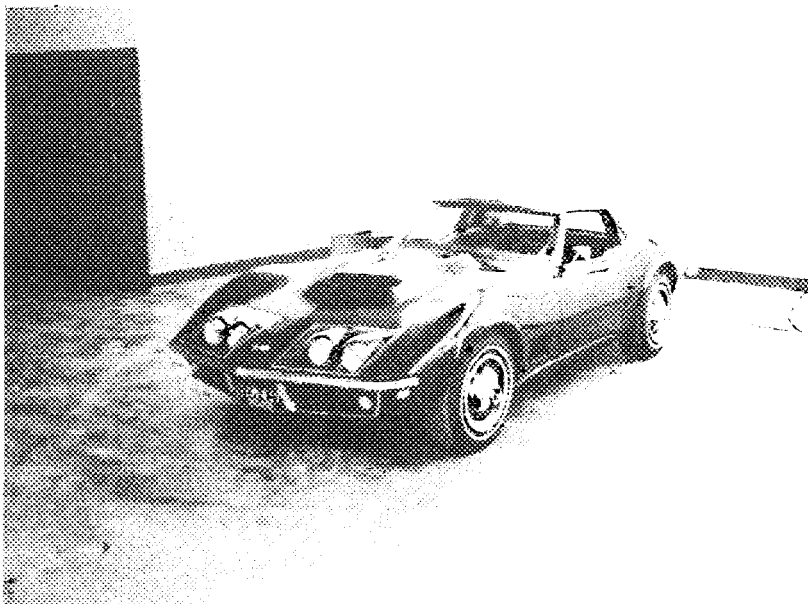
A variant is one or several changes which noticeably modify either the performance or main characteristics of the car, but concerns only a part of the production run.

Recognition is granted a variant only after it has met the same production requirements as the FIA Group in which the original model was recognized (I-5000; II-1000; III-500; IV-50)

In filing this form, each change must be fully documented as required in the original recognition form, using the same item numbering keys and including sketches or photos as and if required in the original form.

This variant applies to previously homologated Chevrolet Corvette Sting Ray Model 1967. F.I.A. Recognition #583 and except for changes and additions as noted herein is identical.

A. 3/4 Front View of Car.



Model #19437

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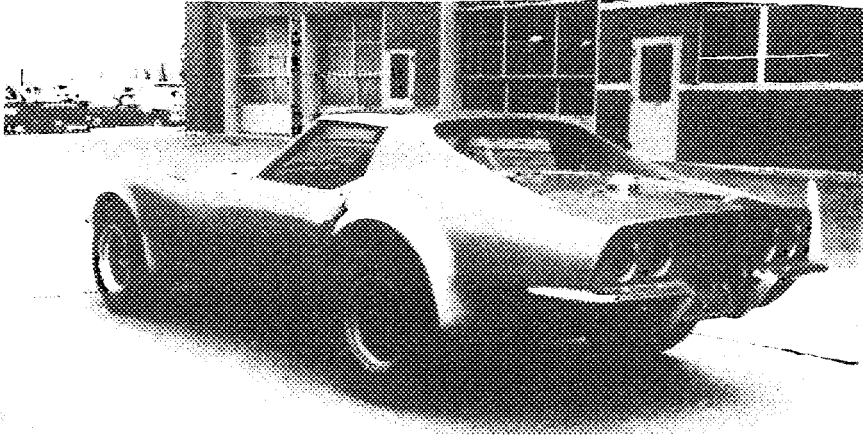
MAKE Chevrolet

MODEL Corvette

REC. NO. 583

*AW*

B. 3/4 Rear Car (\*\*)



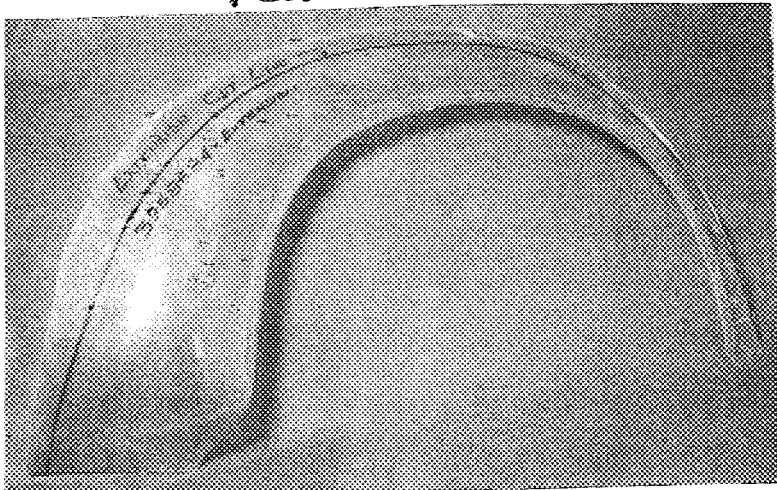
(\*\*) 9. Weight - total weight of car with normal equipment, water, oil and spare wheel but without fuel or repair tools.

1255 Kg 2766 lbs.

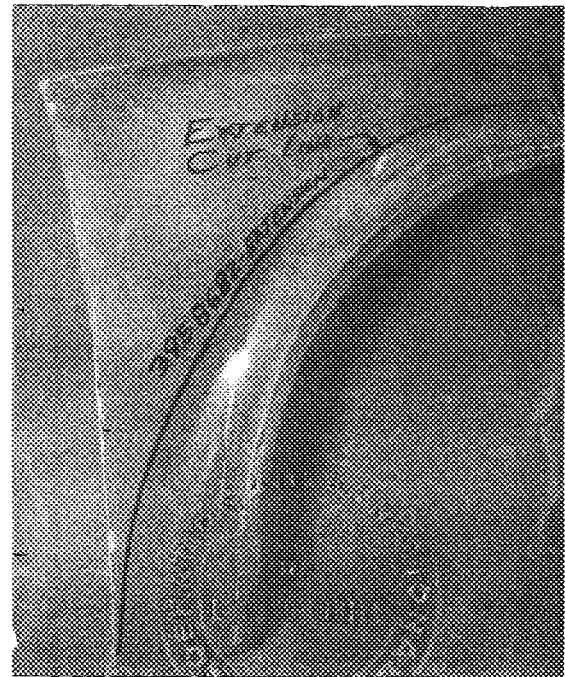
ITEM 203. 2.60:1 ratio (options)

Teeth number - 30:15

*Rear*



*Front*

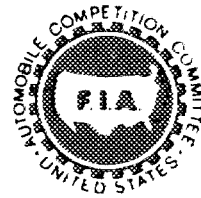


STAMP

*John & Oliver*







Telephone: (203) 348-6233

Cable Address: "ACCUSFIA" Stamford, Conn.

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

433 MAIN STREET, STAMFORD, CONN. 06901

VARIANT FORM - In accordance with Appendix "J" of the International Sporting Code

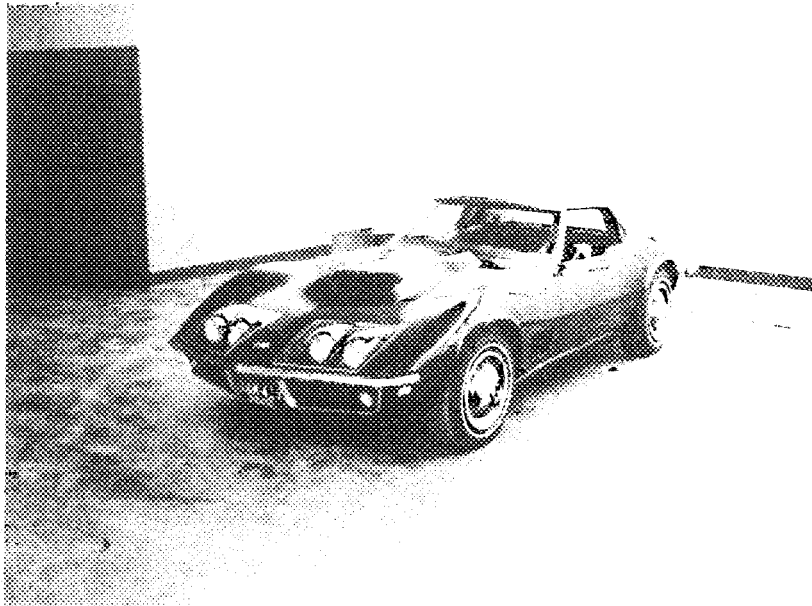
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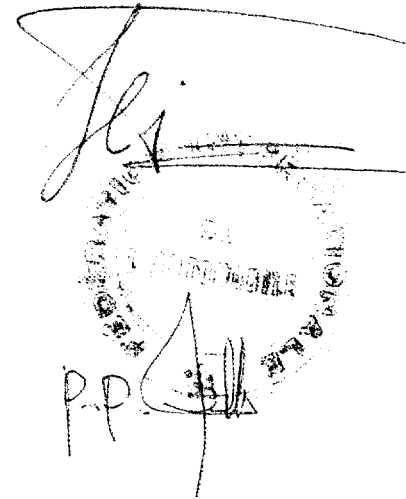
This variant applies to previously homologated Chevrolet Corvette Sting Ray Model 19467. F.I.A. Recognition #583 and except for changes and additions as noted herein is identical.

A. 3/4 Front View of Car.



Model #19437

STAMP



STAMP

MAKE Chevrolet Corvette

MODEL ~~1946~~, 19467

REC. NO 583"

v 2/20

Item

(**)	2. Front track	1491.0 mm	58.7 in.
(**)	3. Rear track	1510.3 mm	59.4 in.
	5. Overall width of car	190.2 cm	74.9 in.

ZL-1 Option item 9

(\*\*) 9. Weight - total weight of car with normal equipment, water, oil and spare wheel but without fuel or repair tools.

Model  
19467

1222.4 kg      2695 lbs.  
~~1210.2 kg~~      ~~2680 lbs.~~

*corrigé le 1/11*

51. Weight(per wheel, without tire)	10.9 kg	24.2 lbs.
54. Rim, width #3952869	203.2 mm	8.0 in.

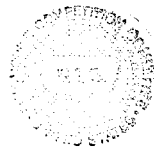
ZL-1 Option item 137 & 138

(**)	137. Cylinder Block - material/s	Cast Aluminum Alloy
(**)	138. Sleeves - material/s (if fitted)	Cast Iron-dry
	230. Pump fuel - electrical #AC-EP-12 Optional	
	231. Number fitted	two
	293. Ratio	3.90    5.14
	teeth - number	$\frac{39}{10}$ $\frac{36}{7}$

Optional Wheels

Part #	<u>Track</u>	
	Front	Rear
3966947 - 15 X 9.5 in. - 381.0 mm X 241.3 mm	59.7 in. 1516.4 mm	62.2 in. 1580.9 mm
50. Type - Cast magnesium or aluminum		
51. Weight (per wheel, without tire)	6.98 kg	15.4 lbs.

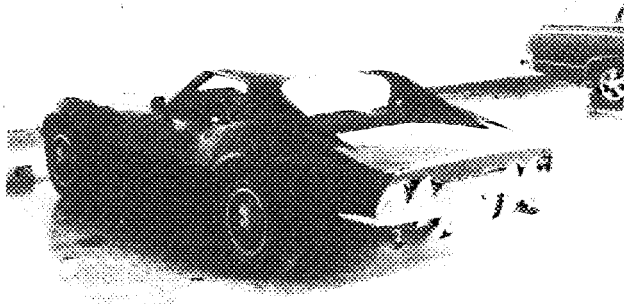
STAMP



(28)

MAKE Chevrolet MODEL Corvette REC. NO. 583 E 2/26

B. 3/4 Rear Car (\*\*)



(\*\*) 9. Weight - total weight of car with normal equipment, water, oil and spare wheel but without fuel or repair tools.

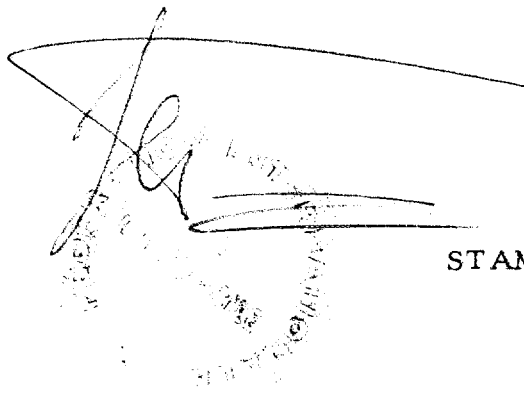
~~1255~~ Kg ~~2766~~ lbs.

*Corviger*  
*11/71*  
*[Signature]*

ITEM 293. 2.60:1 ratio (optional)

Teeth number - 39:15

STAMP

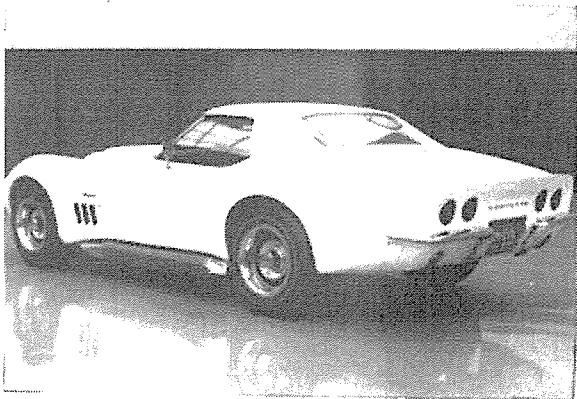


STAMP

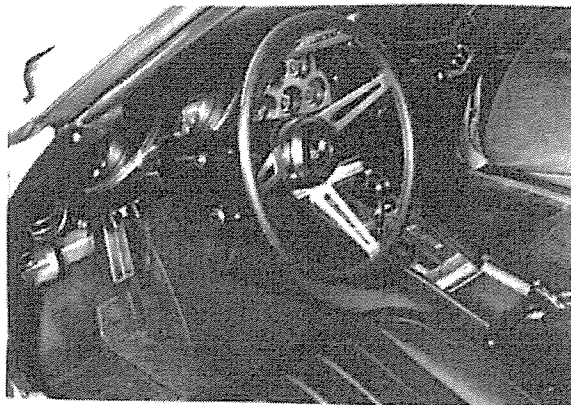
(2A)

MAKE Chevrolet Corvette MODEL 1967. REC. NO. 583 v 2/2V

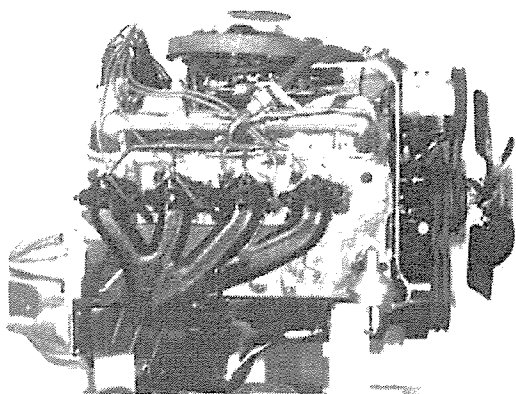
B 3/4 rear - car (\*\*)



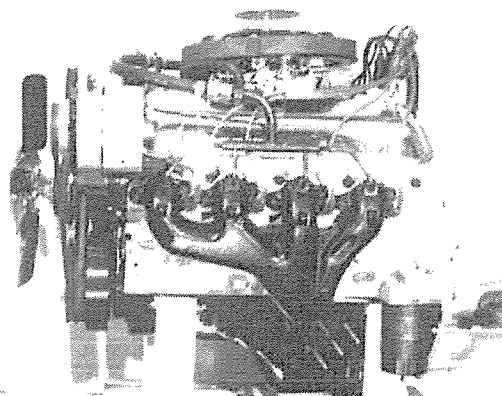
C Interior - car (\*\*)



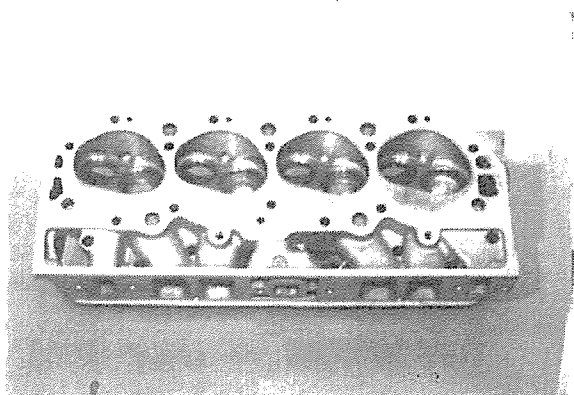
J Engine Right



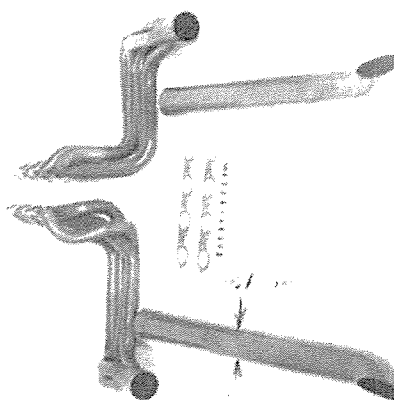
K Engine Left



L Combustion Chamber



Q Manifold Exhaust



STAMP



MAKE \_\_\_\_\_ MODEL \_\_\_\_\_ FIA REC NO 583 v 1/3/3V



*1st Jan 1969  
built 1969/1*

Telephone: (203) 348-6233

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

433 MAIN STREET, STAMFORD, CONN. 06901

VARIANT FORM - In accordance with Appendix "J" of the International Sporting Code

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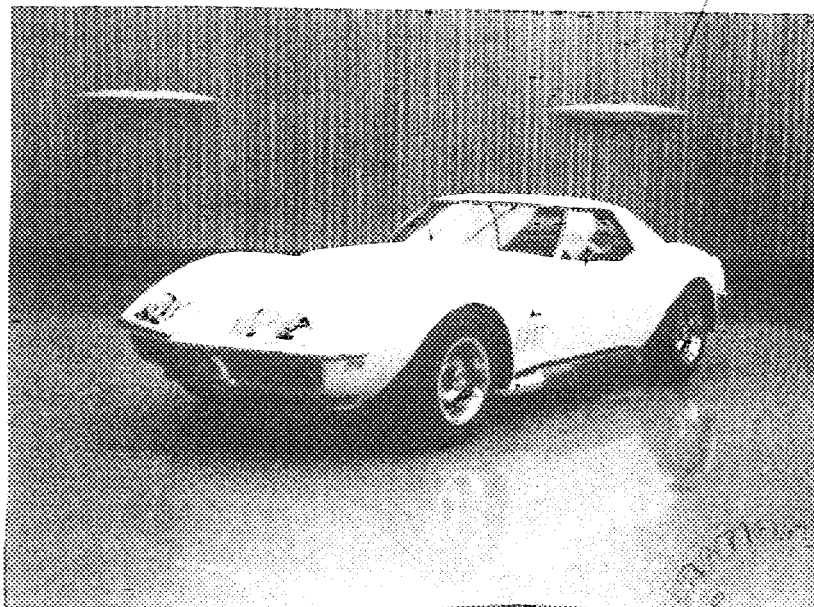
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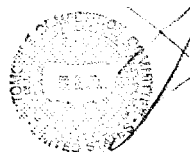
This variant applies to previously homologated Chevrolet Corvette Sting Ray Model 1967 ~~1967~~ F.I.A. Recognition #583, Variant #1/IV and except for changes and additions as noted herein is identical.

A. 3/4 Front View of Car.

*John B. Clavan*

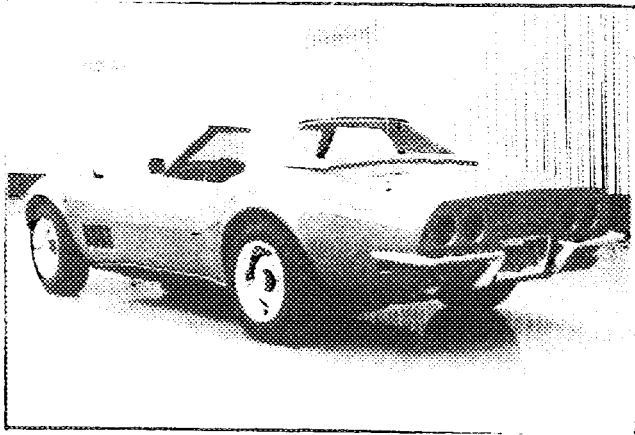


STAMP  
*John B. Clavan*

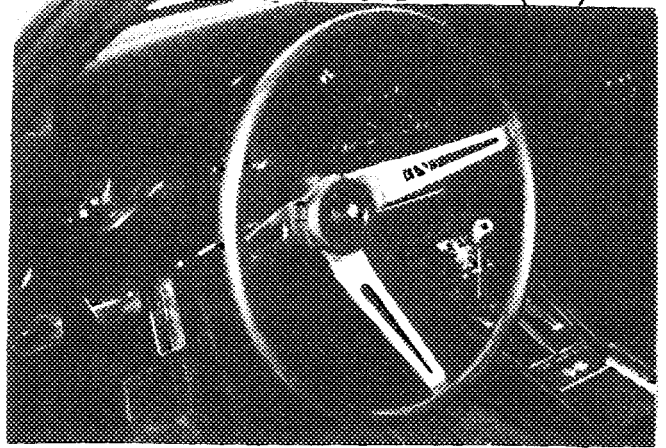


RECEIVED  
STAMP  
*[Signature]*

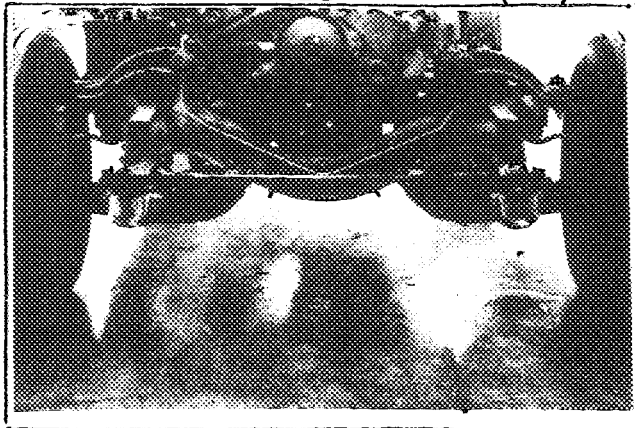
B 3/4 rear car (\*\*)



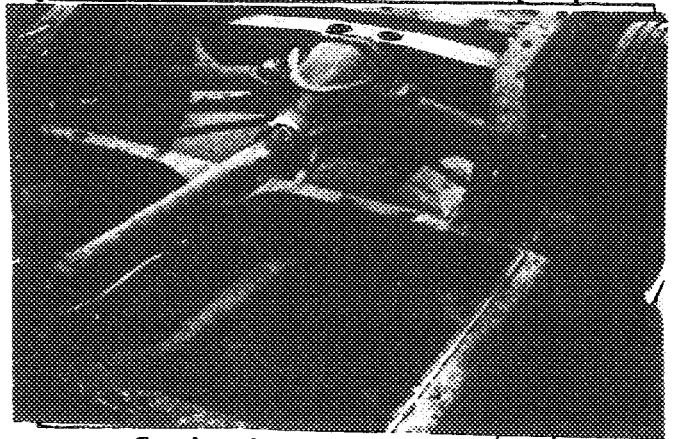
C interior-car (\*\*)



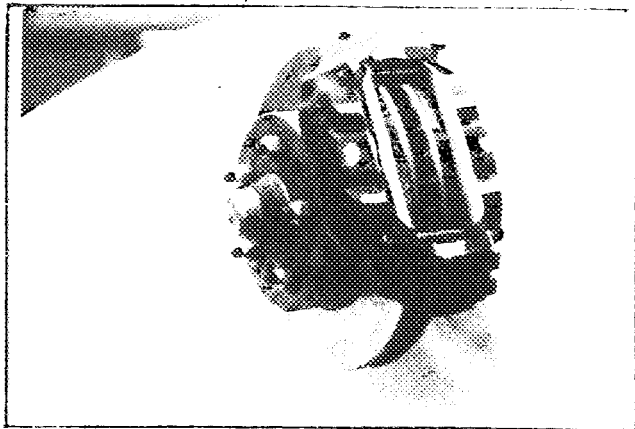
D front axle (\*\*)



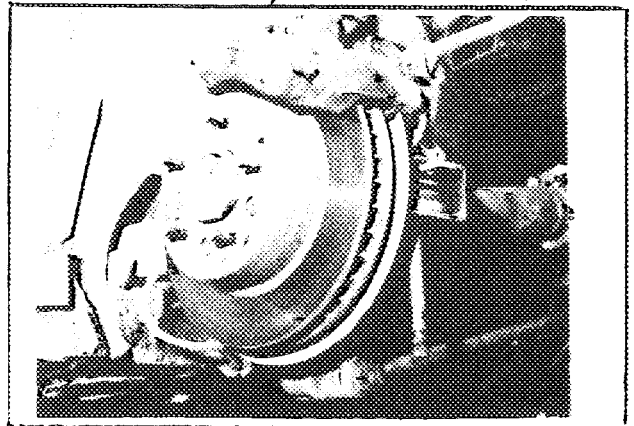
E rear axle (\*\*)



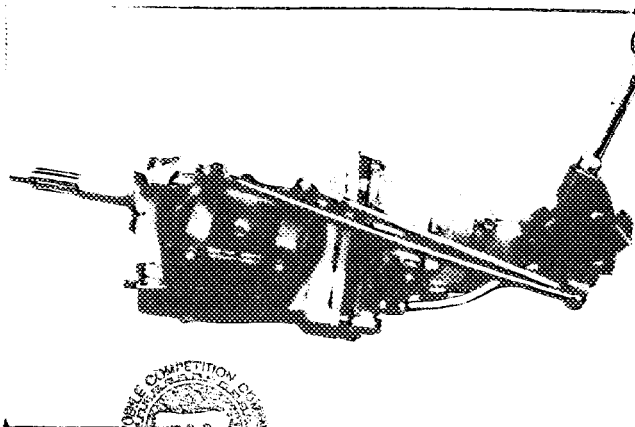
F brake, front (\*\*)



G brake, rear (\*\*)



H gear box (\*\*)



I exhaust system (\*)

muffler and exhaust pipes  
after exhaust manifold

Not required.

STAMP



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MAKE \_\_\_\_\_

MODEL \_\_\_\_\_

FIA REC NO 583 V 4/46



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

433 MAIN STREET, STAMFORD, CONN. 06901

**VARIANT FORM** - In accordance with Appendix "J" of the International Sporting Code

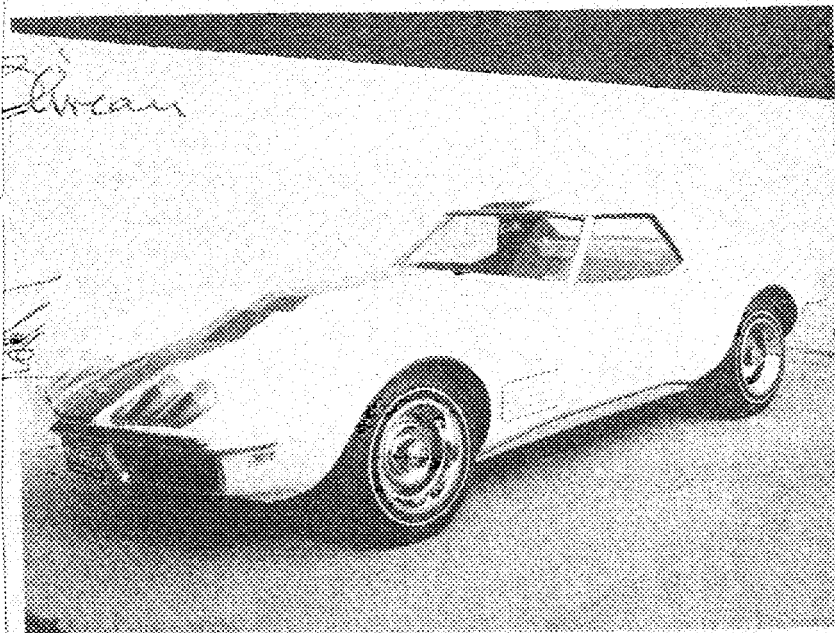
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This variant applies to previously homologated Chevrolet Corvette Sting Ray Model 1967 ~~Model~~. F.I.A. Recognition #583, Variant #1/1V, Variant #3/3V and except for changes and additions as noted herein is identical.

A. 3/4 Front View of Car.

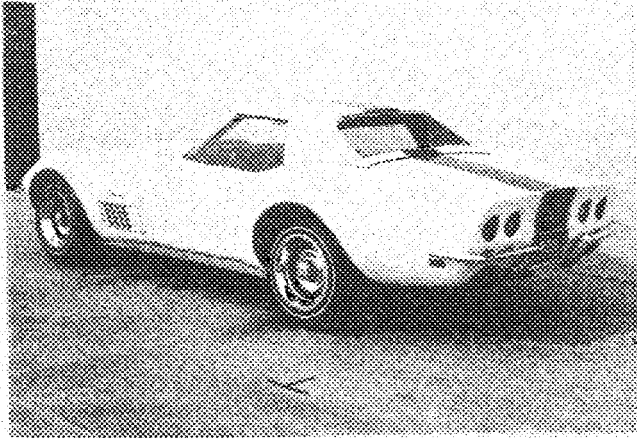


STAMP *Chivan*

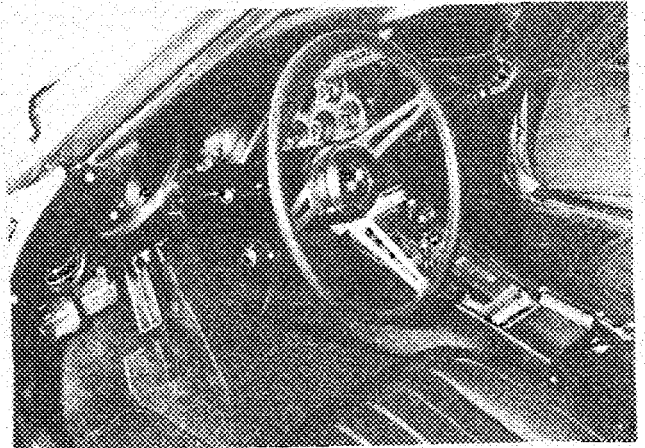


STAMP

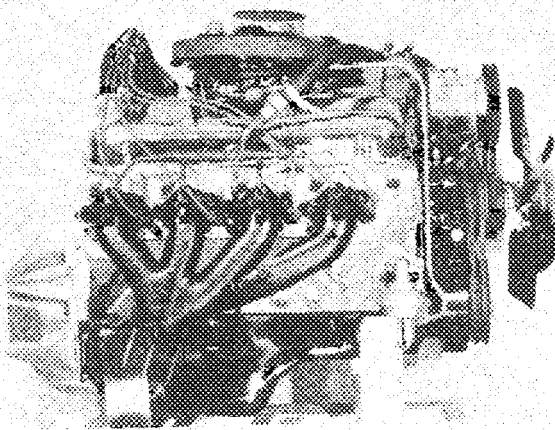
B 3/4 rear - car (\*\*)



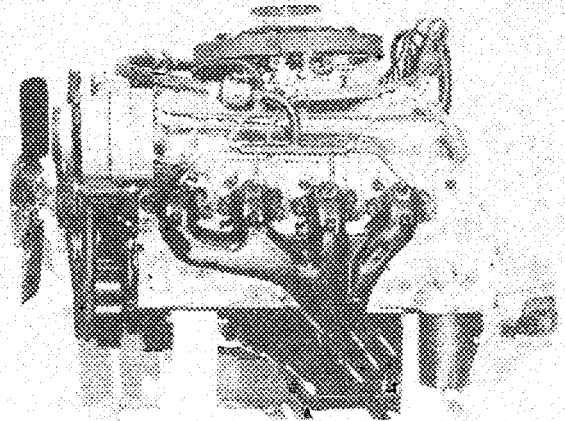
C Interior - car (\*\*)



J Engine Right



K Engine Left



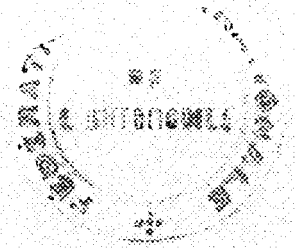
Item

7. ~~Free~~ Capacity of fuel tank (reserved included) optional Part #3987902  
~~120.0 Ltrs 31.7 gallons Imp. 26.4 gallons, Imp.~~

134.	Stroke	101.6	mm	4.00	in
135.	Cylinders - capacity	929.9	cm <sup>3</sup>	56.7	in <sup>3</sup>
136.	Cylinders, total	7445.8	cm <sup>3</sup>	454	in <sup>3</sup>
196.	Valve (overall) - diameter	47.24	mm	1.86	in
197.	Valve, lift - maximum	15.24	mm	.600	in

Optional

Part # 3157804 Cooler & Pump Assy. Final Drive



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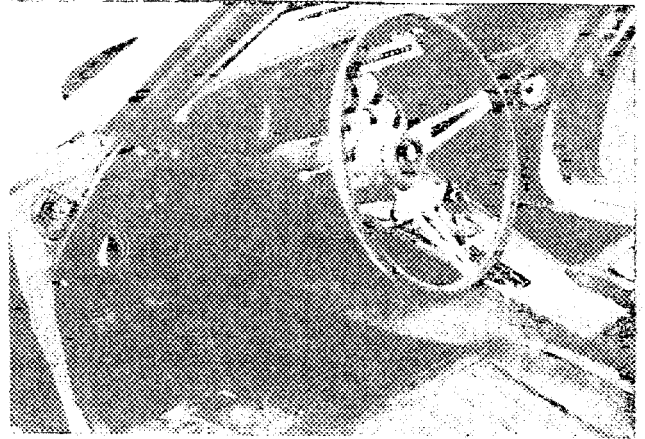
MAKE Chevrolet Corvette MODEL 19467, 19437 REC. NO. 583 V

B. 3/4 Rear - Car (\*\*)

C. Interior - Car (\*\*)

GR. IV

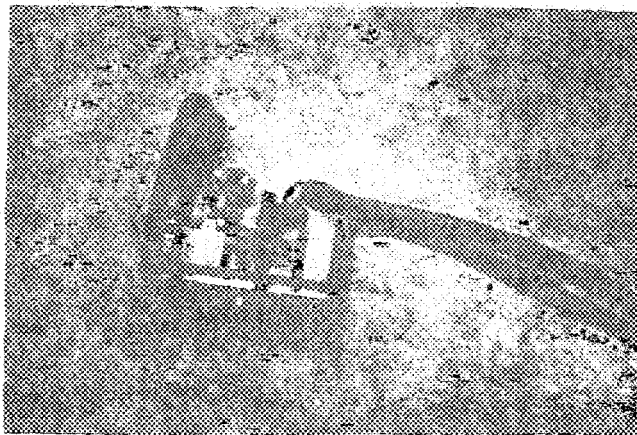
5/54



OPTIONAL

# 3965773

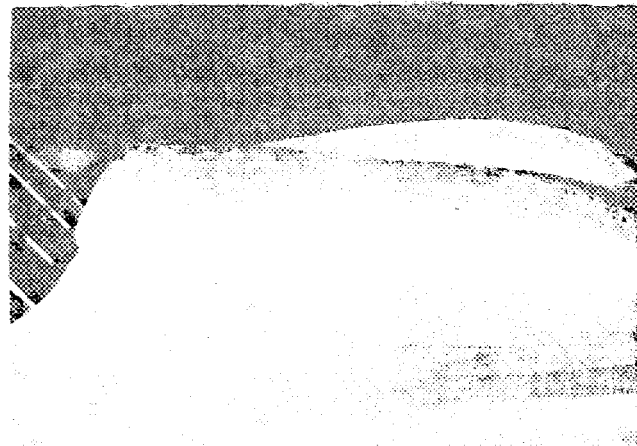
PUMP - Engine Dry Sump



OPTIONAL for Variant 1/IV thru 4/4V

Hood Assy. #339173

Current production - includes fixed wiper door.



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**AUTOMOBILE COMPETITION COMMITTEE  
FOR THE UNITED STATES, FIA, INC.**  
330 Vanderbilt Motor Parkway  
HAUPPAUGE, L. I., NEW YORK 11787

**FEDERATION INTERNATIONALE DE L'AUTOMOBILE**  
**DOCUMENT OF HOMOLOGATION EXTENSION**  
**IN CONFORMITY WITH APPENDIX J OF THE INTERNATIONAL SPORTING CODE**

Make Chevrolet Corvette Model Corvette Sting Ray Model 19467 & 19437 (1YZ67 & 1YZ37)  
1Z37Z4S400001 Coupe  
Serial numbers initiating the modifications described below: Chassis/Body 1Z67Z4S400001 Convertible  
Engine T0904CWM1 4S00001

Date of production of first vehicles incorporating modifications: September 19 73

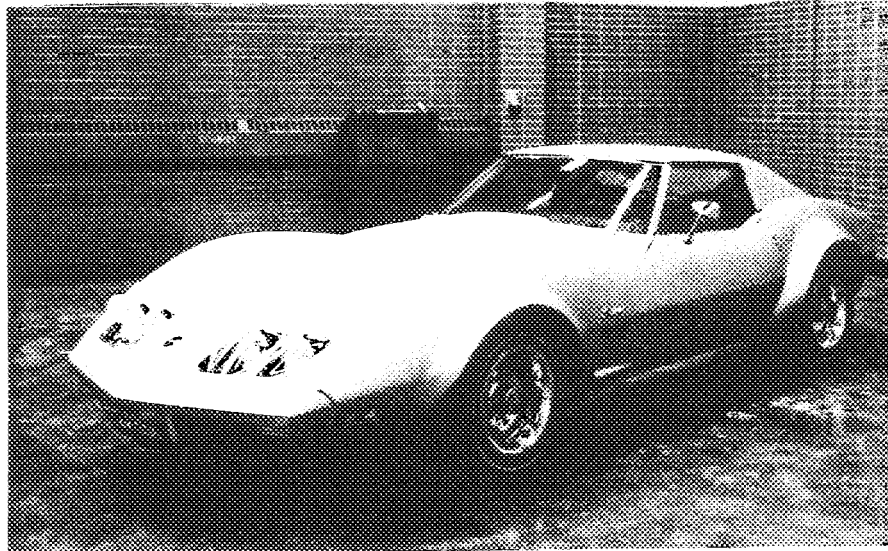
Designation of vehicles incorporating modifications: LS-4, Z-07, D-80

This homologation extension is to be considered as a: VARIANT (Option)  
NORMAL EVOLUTION OF TYPE Evolution or type  
(Replaces previous design)

This Homologation is valid from 1. 4. 1974 List \_\_\_\_\_

**DESCRIPTION OF MODIFICATIONS:** This normal evolution of type applies to previously homologated Chevrolet Corvette F.I.A. Recognition #583, Variant #1/1 V, through Variant #5/5 and except for changes and additions as noted here in is identical. Appearance change is rear of body - urethane plastic cover over frame and impact absorbing bumper.

A. 3/4 Front view



Signature & Stamp of  
National Sporting Authority

Signature & Stamp  
of the F.I.A.

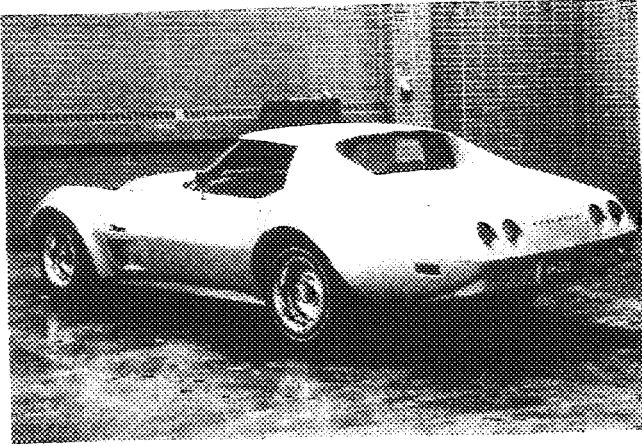
MAKE Chevrolet

19437  
MODEL Corvette 19467

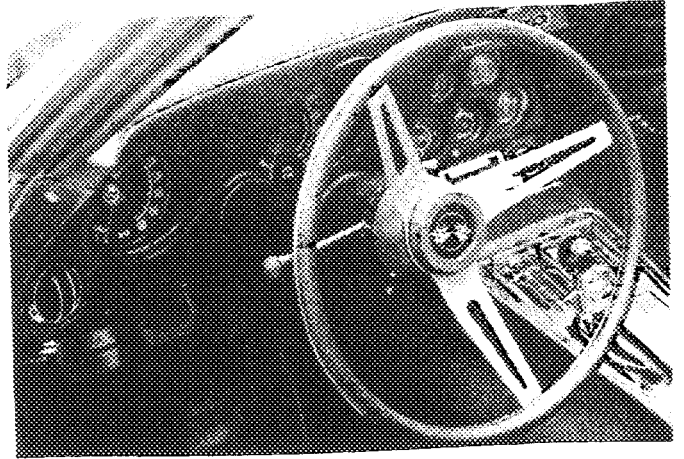
REC. NO. 583

G/IE

B. 3/4 Rear - Car (\*\*)



C. Interior - Car (\*\*)



7/6V

**AUTOMOBILE COMPETITION COMMITTEE  
FOR THE UNITED STATES, FIA, INC.**  
330 Vanderbilt Motor Parkway  
HAUPPAUGE, L. I., NEW YORK 11787

FEDERATION INTERNATIONALE DE L'AUTOMOBILE  
DOCUMENT OF HOMOLOGATION EXTENSION  
IN CONFORMITY WITH APPENDIX J OF THE INTERNATIONAL SPORTING CODE

Make Chevrolet Model Corvette 1YZ67 & 1YZ37  
 Serial numbers initiating the modifications described below: Chassis/Body 67T 1Z37J4S400001  
 Engine F0813CLR100001  
 Date of production of first vehicles incorporating modifications: August 19 73  
 Designation of vehicles incorporating modifications: L-48, L-82 350 C.I.D.  
 This homologation extension is to be considered as a: VARIANT (Option) Variant  
NORMAL EVOLUTION OF TYPE  
(Replaces previous design)  
 This Homologation is valid from 1 h 19 74 List

**DESCRIPTION OF MODIFICATIONS:**

350 C.I.D. (5735.5 cc) Engine  
 N-41 Power Steering  
 J-56 Heavy Duty Brakes  
 FE-7 Heavy Duty Suspension  
 Optional Carburetor (350 C.I.D.)  
 Optional Inlet Manifold (350 C.I.D.)  
 Optional Cylinder Head (350 C.I.D.)

Signature & Stamp of  
National Sporting Authority

Signature & Stamp  
of the F.I.A.

MAKE ChevroletMODEL CorvetteFIA REC # 583

7/6V

ENGINE (Photos J and K)

- \* 130. Cycle: Four stroke cycle
- \* 131. Number of cylinders: 8
- \* 132. Cylinder arrangement: 90° VEE Wankel: # of elements & basic dimensions-
- \* 133. Bore: 101.6 mm 4.00 inches
- \* 134. Stroke: 88.4 mm 3.48 inches
- \* 135. Capacity per cylinder: 716.9 cm<sup>3</sup> 43.75 cu in
- \* 136. Total cylinder capacity: 5735.5 cm<sup>3</sup> 350.0 cu in
- \* 137. Material of cylinder block: Cast iron alloy
- \* 138. Material of sleeves (if fitted): None
- \* 139. Cylinder head material: Cast iron alloy Number fitted: 2
- \* 140. Number of inlet ports: 8
- \* 141. Number of exhaust ports: 8
- (SP)142. Compression ratio: 9.00:1
- (SP)143. Volume of combustion chamber: 74.47 cm<sup>3</sup> 4.54 cu in
- (SP)144. Piston, material: Aluminum - forged
- (SP)145. Number of rings: 3
- (SP)146. Distance from gudgeon pin centre line to highest point of piston crown:  
3.980 mm 1.567 inches
- \* 147. Crankshaft: (cast) X (forged) steel
- \* 148. Crankshaft, type: X (integral) (sectioned)
- \* 149. Crankshaft, number of main bearings: 5
- \* 150. Material of bearing cap: Cast iron alloy
151. System of lubrication: (dry sump) X (oil in sump)
152. Lubricant capacity: 4.74 litres 10 pints 5 quarts U.S.
- (SP)153. Oil cooler: (yes) X (no)
- \* 154. Method of engine cooling: liquid
155. Capacity of cooling system: 17.95 litres 38 pints 19 quarts U.S.
- (SP)156. Cooling fan (if fitted) diameter: 44.5 cm 17.5 inches
- (SP)157. Number of blades of cooling fan: 5

## BEARINGS

- \* 158. Crankshaft, main, type: insert Diameter: 62.235 mm 2.450 inches
- \* 159. Connecting rod, big end, type: insert Diameter: 53.327 mm 2.099 inches

## WEIGHTS

- (SP)160. Flywheel (clean): 13.17 kg 29.16 lbs
- (SP)161. Flywheel with clutch (all rotating parts): 24.10 kg 53.18 lbs
- (SP)162. Crankshaft: 24.0 kg 53.1 lbs
- (SP)163. Connecting Rod: .596 kg 1.317 lbs
- (SP)164. Piston with rings and pin: 1.378 kg 3.04 lbs

MAKE ChevroletMODEL CorvetteFIA REC # 58-3

7/6V

FOUR CYCLE ENGINES

- \* 170. Number of camshafts: 1  
 \* 171. Location of camshaft: Cylinder block  
 \* 172. Type of camshaft drive: Chain & sprocket  
 \* 173. Type of valve operation: Pushrod & rocker arm

INLET (see Photo P) +

180. Material of inlet manifold: Cast iron  
 181. Overall diameter of valves: 51.5 mm 2.023 inches  
 (SP)182. Maximum valve lift: 11.42 mm .450 inches  
 183. Number of valve springs: 1 + damper  
 184. Type of spring: Coil  
 \* 185. Number of valves per cylinder: 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) X (dry) Cartridge type: X (yes) (no)

EXHAUST (see Photo Q)

195. Material of exhaust manifold: Cast iron  
 196. Overall diameter of valves: 40.77 mm 1.605 inches  
 (SP)197. Maximum valve lift: 11.68 mm .460 inches  
 198. Number of valve springs: 1 + damper  
 199. Type of spring: Coil  
 \* 200. Number of valves per cylinder: 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: 58.42 mm 2.30 inches

CARBURETION (see Photo N)

210. Number of carburetors fitted: 1  
 (SP)211. Type: Downdraft air valve secondary  
 (SP)212. Make: Rochester  
 (SP)213. Model: Quadrajets 4MV  
 214. Number of mixture passages per carburetor: 4 35.1 PRI 1.38 PRI  
 (SP)215. Flange hole diameter of exit port of carburetor: 57.2 SEC mm 2.25 SEC 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): PRI 26.4 mm 1.04 inches  
 SEC 57.2 2.25

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

MAKE Chevrolet

MODEL Corvette

FIA REC # 583

7/6V

INJECTION (if fitted)

- 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:

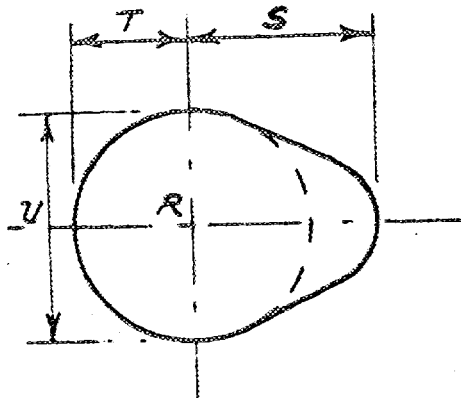
ENGINE ACCESSORIES

- (SP)230. Fuel pump: mechanical and/or electrical Mechanical
- 231. Number fitted: One
- 232. Type of ignition system: Coil & breaker
- 233. Number of distributors: One
- 234. Number of ignition coils: One
- 235. Number of spark plugs per cylinder: One
- (SP)236. Generator type: (dynamo) x (alternator) Number: One
- 237. Method of drive: Belt
- 238. Voltage of generator: 14.8
- 239. Battery, number: One
- 240. Location of battery: Rear compartment
- 241. Voltage of battery: 12.0 volts

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

- (SP)250. Horsepower, maximum engine output: 250 SAE at: 5200 rpm  
(indicate SAE or DIN)
- (SP)251. Maximum rpm: 6000 (SP) Output at that figure: N.A.
- (SP)252. Maximum torque: 285 at: 4000 rpm
- (SP)253. Maximum speed: N.A. km/hour N.A. miles/hour

255. CAM



(SP) Inlet cam

S = 23.3	mm	.9161	inches
T = 15.6	mm	.6141	inches
U = 31.2	mm	1.2283	inches

(SP) Exhaust cam

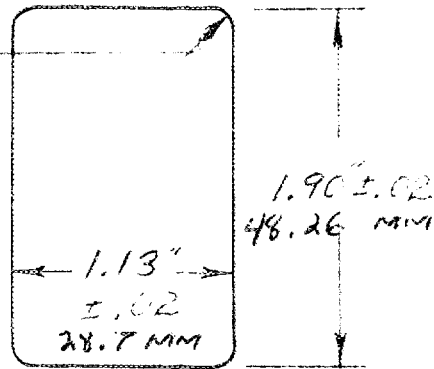
S = 23.3	mm	.9161	inches
T = 15.42	mm	.6075	inches
U = 30.8	mm	1.2145	inches



7/6V

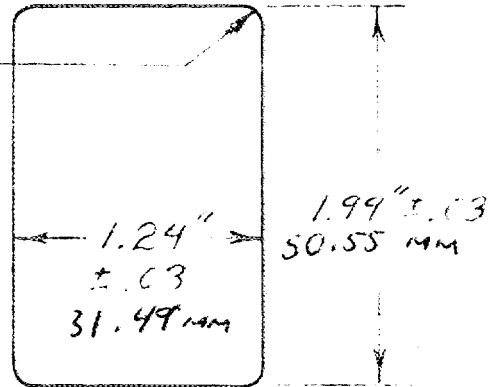
Drawing inlet manifold ports, side of cylinder head. Indicate scale or dimensions and manufacturing tolerance.

$.18R \pm .02$   
4 PLACES  
4.57 MM



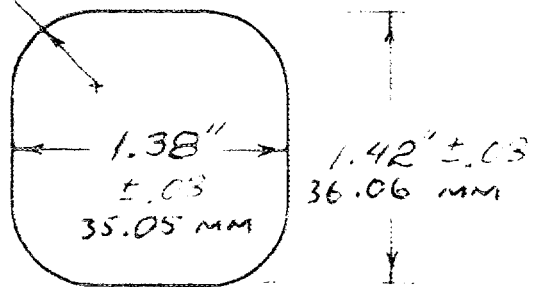
Drawing of entrance to inlet port of cylinder head. Indicate scale or dimensions and manufacturing tolerance.

$.14R \pm .03$   
4 PLACES  
3.55 MM



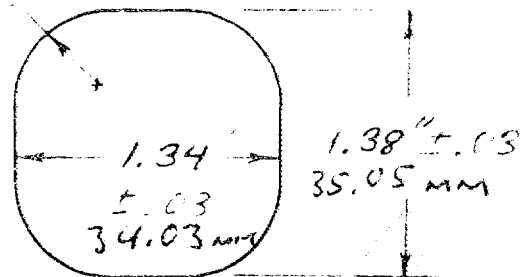
Drawing exhaust manifold ports, side of cylinder head. Indicate scale or dimensions and manufacturing tolerance.

$.43R \pm .03$   
4 PLACES  
10.92 MM



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

$.50R \pm .03$   
4 PLACES  
12.7 MM



MAKE Chevrolet

MODEL Corvette 350

FIA REC. # 583  
GR-III

7/6V

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.

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

ENGINE 350 C.I.D.

133.	Bore: (with 3mm over bore)	104.6mm	4.118 inches
135.	Capacity per cyl: (with 3mm over bore)	759.6cc	46.35 cu. in.
136.	<u>Total cyl. capacity:</u> (with 3mm over bore)	6076.8cc	370.6 cu. in.
	Compressed head gasket thickness:	.533mm	.021 inches
	Compressed head gasket volume (per cylinder):	4.58cc	.279 cu. in.

MAKE Chevrolet

MODEL Corvette

FIA REC. # 583

7/68

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.

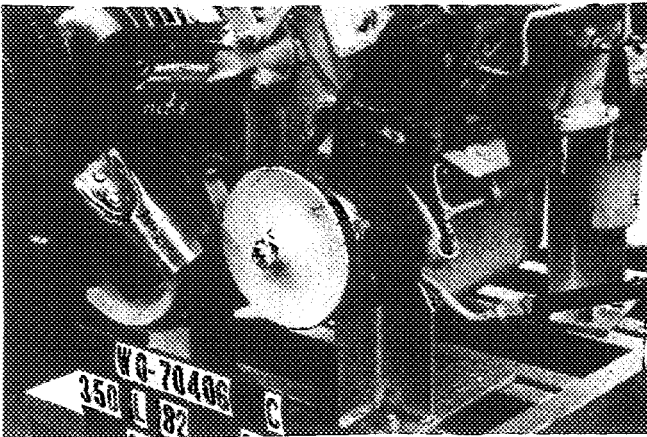
For cars engaged in Group 5 (Sport) only the characteristics identified by asterisks (\*) need be verified.

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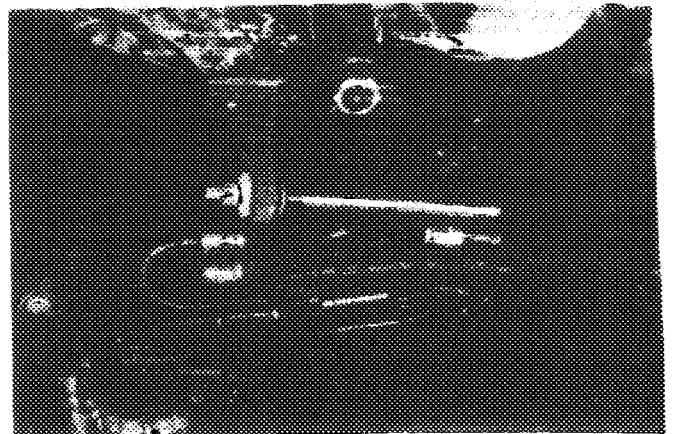
EQUIPMENT AND ACCESSORIES available as options or production installed must indicate the part number of the option and the item number affected.

Option:

- N-41 Power Steering
- #7816847 Pump Assembly
- #5691112 Booster Assembly
- #7816806 Valve Assembly



Pump Installation



Booster & Valve Assy.

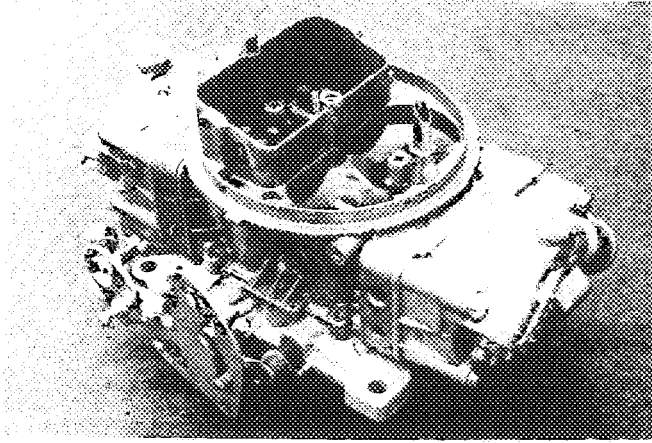
7/60

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.

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

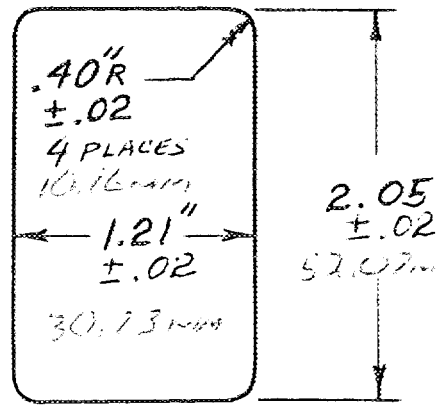
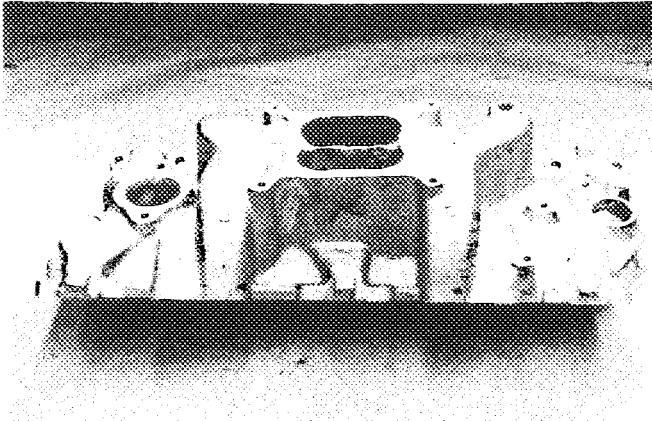
Optional carburetor part #3965736



- 211. Down draft - mechanical secondary
- 212. Make: Holley
- 213. Model: #4788
- 214. Passages: 4
- 215. Flange diameters:  
Pri. & Sec. 1.6875 inches  
42.86 mm
- 216. Throat diameters venturi:  
Pri. & Sec. 1.562 inches  
39.67 mm

N. Carburetor

Optional Inlet Manifold  
Part #3991004 - material: Aluminum casting #3917610



P. Manifold Inlet

Inlet manifold port to cylinder head

7/6V

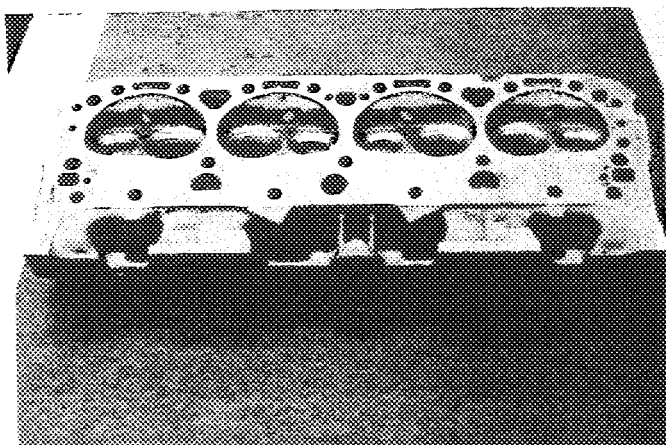
**IMPORTANT** - For cars engaged in Group 2 (Special Touring) and Group 4 (Special Grand Touring) conformity with characteristics identified by symbol (SP) and entire page 8 IS NOT REQUIRED.

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

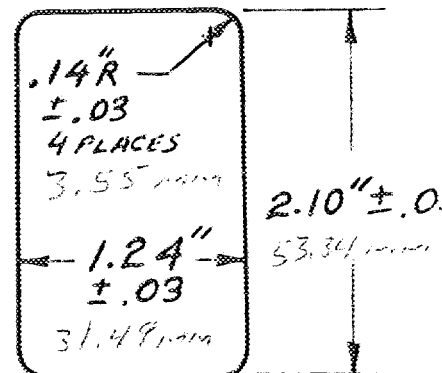
**EQUIPMENT AND ACCESSORIES** available as options or production installed must indicate the part number of the option and the item number affected.

Optional Cylinder Head #340292

Items 139, 140, 141, 142 & 143 - same as page 5.  
Exhaust port dimensions same as page 8.



Entrance to inlet port in head



L Combustion chamber

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.

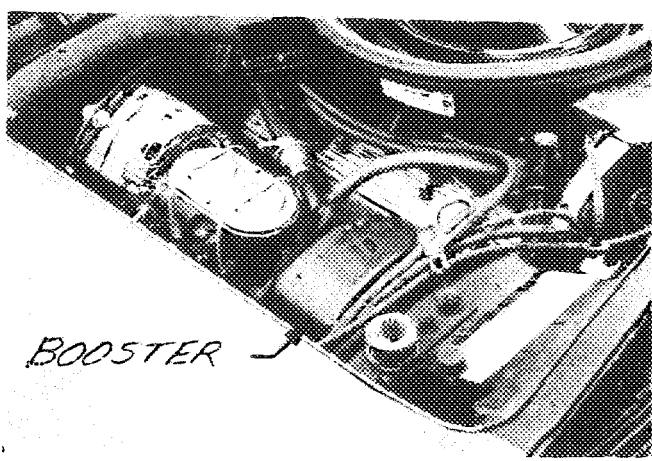
For cars engaged in Group 5 (Sport) only the characteristics identified by asterisks (\*) need be verified.

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

Option:

J-56 Heavy duty brake  
Item description same as #90-94 & #100-105.  
Picture same as F & G  
Lining material - RM 4528-2  
#5468883 Shoe Assy. Front  
#5452516 Shoe Assy. Rear

J-50 Booster part of J-56  
#3956739 Booster Assembly



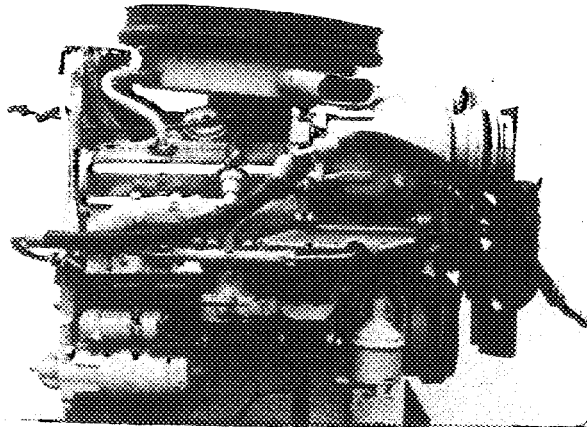
Booster Installation

FE-7 Gymkhana H.D. Suspension  
Description same as #70.-74. & #78.-82.  
Picture same as D & E  
#3832518 Spring - Front  
#3828811 Spring - Rear  
#3871318 Stabilizer Bar - Front

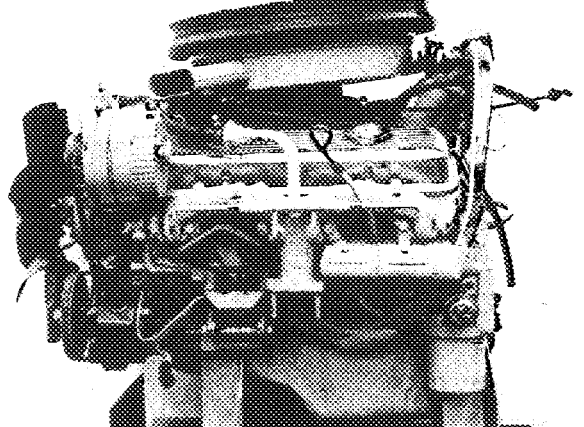
All above options part of option Z0-7.

7/60

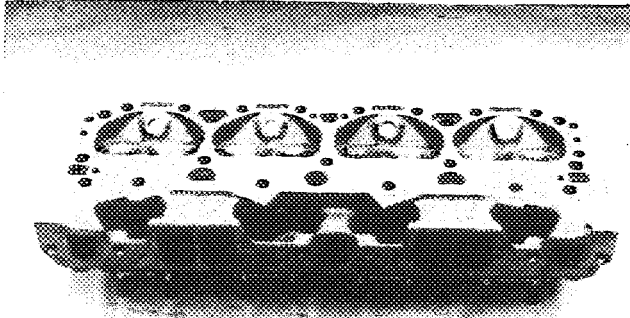
J ENGINE RIGHT \*



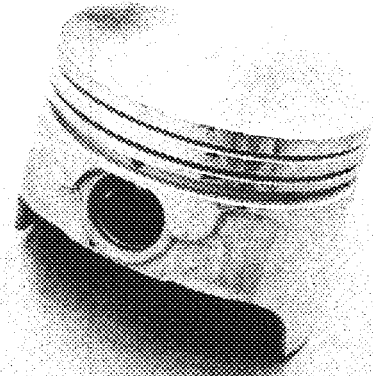
K ENGINE LEFT \*



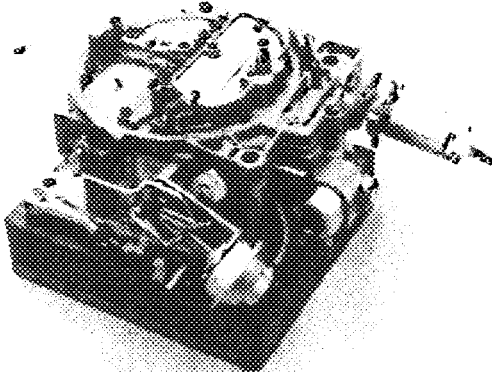
L COMBUSTION CHAMBER



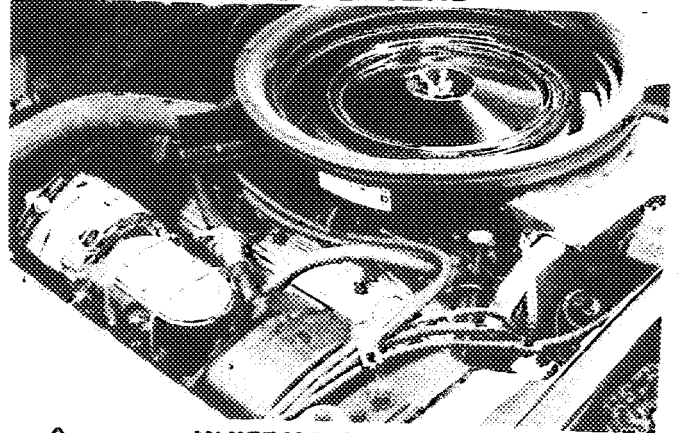
M PISTON TOP



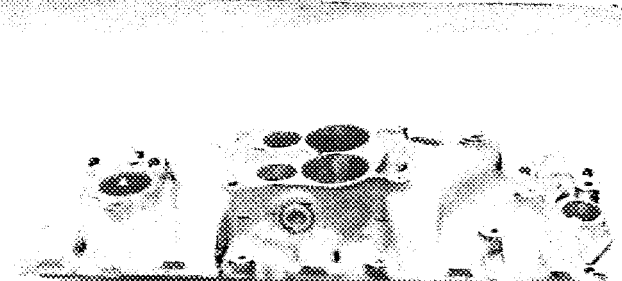
N CARBURETOR



O ENGINE IN PLACE \*



P MANIFOLD INLET



Q MANIFOLD EXHAUST

