



**Automobile Competition Comm.  
For The United States, FIA, Inc.**  
1725 "K" St., N. W. Suite 302  
WASHINGTON, D. C. 20006

FIA NO. 3039  
GROUP III

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

**FORM OF RECOGNITION**

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

Cylinder Capacity 7445.6 cm<sup>3</sup> 454 in<sup>3</sup>

Manufacturer Chevrolet Motor Division  
General Motors Corporation

Model (19437) LS6  
(19467) Corvette Stingray

Serial # Chassis 194371S100001  
194671S100001

Manufacturer Chevrolet

Serial # Engine T1019CPW100001

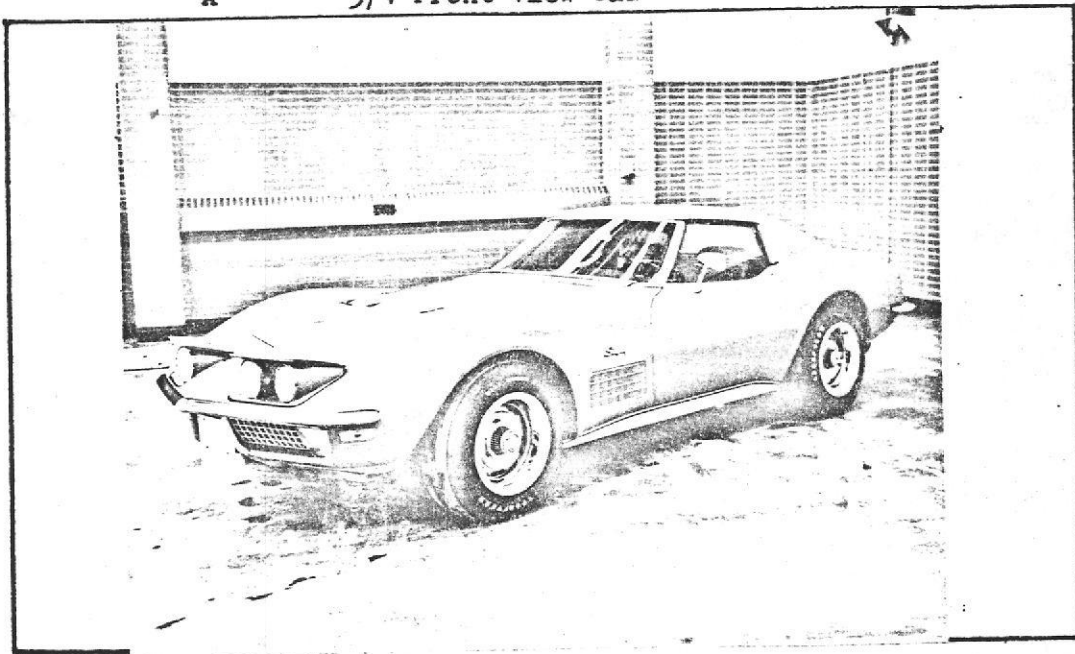
Manufacturer Chevrolet

Recognition valid from 7/6 1971 JUN 1 1971

List 71/6

The manufacturing of the model described in this recognition form was started on August 1, 1970 and the minimum production of 1356 identical cars, in accordance with the specifications of this form, was reached on 26 February 1971

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 Corvette LS6

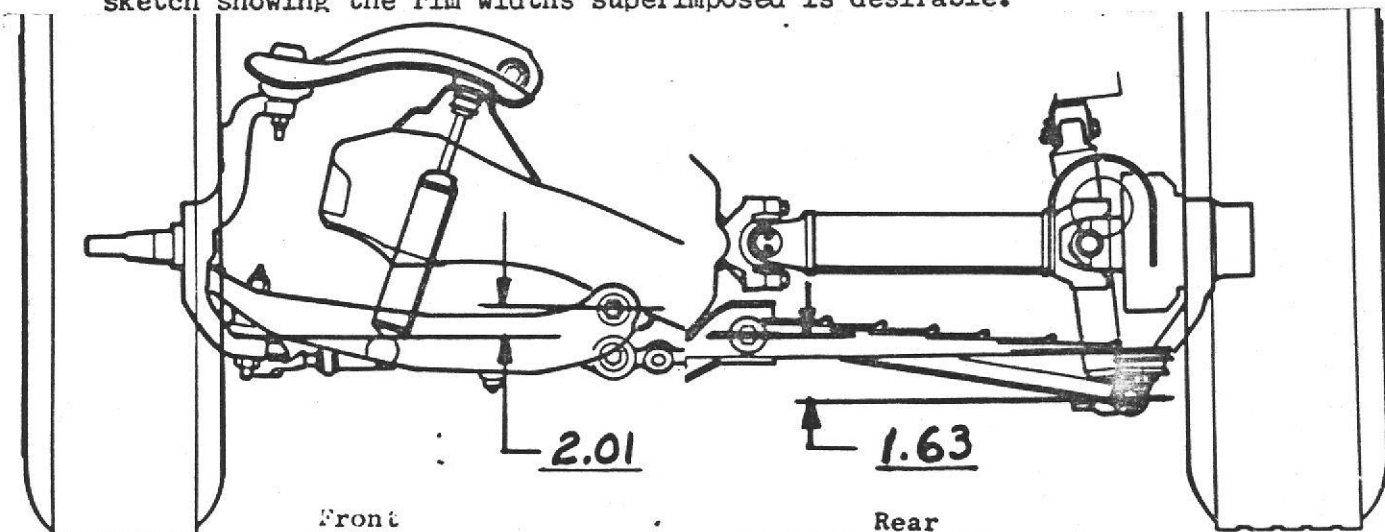
FIA REC # 3039

IMPORTANT - Underlined items must be filled in, in both metric and English values.  
See Conversion Table below. SEE PAGE 10 FOR EXPLANATION OF SYMBOLS.

CAPACITIES AND DIMENSIONS

- \* 1. Wheelbase: 2489.2 mm 98.00 inches
- \* 2. Front track: 1490.0 mm 58.70 inches (1)
- \* 3. Rear track: 1507.8 mm 59.40 inches (1)
- 4. Overall length of car 462.5 cm 182.1 inches
- 5. Overall width of car (at widest point) 175.3 cm 69.0 inches
- 5a Overall width of car (at vertical plane through front wheels) 175.5 cm 69.2 in
- 5b Overall width of car (at vertical plane through rear wheels) 175.3 cm 69.0 in
- 6. Overall height of car 121.5 cm 47.8 inches
- \* 7. Capacity of fuel tank (reserve included) 75.7 Litres 20 U.S.Gals.
- 8. Seating capacity: 2
- \* 9. Weight - Total weight of vehicle with normal equipment described on homologation sheet, all required lubricants and coolants and one spare wheel and tire, but without fuel or repair tools  
1340 kg 2953 lbs

(1) Specify ground clearance Front and Rear corresponding to Front and Rear track measurements shown above. Indicate by sketch below reference points on chassis or suspension where these dimensions are checked. These specifications are for the purpose of checking the track with specified wheel rim size with the suspension at reference setting. Differences in track resulting from use of different rim widths must be shown with suspension at reference setting. A sketch showing the rim widths superimposed is desirable.



1 inch	-----	2.54 cm
1 foot	-----	30.4794 cm
1 square inch	-----	6.452 cm <sup>2</sup>
1 cubic inch	-----	16.387 cm <sup>3</sup>

1 pound	-----	453.593 gr
1 quart U.S.	-----	0.9464 ltrs
1 pint U.S.	-----	0.473 ltrs
1 gallon U.S.	-----	3.785 ltrs

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MODEL Corvette LS6 FIA REC # 3039

CHASSIS AND BODYWORK (Photos A, B and C)

- \* 20. Chassis/body construction: (separate) X (unit construction)
- \* 21. Unit construction: material
- \* 22. Separate construction: material of chassis Steel
- \* 23. Material of body: Fiberglass
- \* 24. Number of doors: 2 Material: Fiberglass/steel reinforced
- \* 25. Material of hood: Fiberglass
- \* 26. Material of trunk lid: None
- 27. Material of rear window: Safety plate glass (19437) (19467)
- 28. Material of windshield: Laminated Safety Plate Glass
- 29. Material of front door windows: Safety plate glass
- 30. Material of rear door windows: None
- 31. Windows, actuating system: Sector gear linkage, electric
- 32. Material of rear quarter window: None

ACCESSORIES AND UPHOLSTERY

- 38. Heating, interior: (yes) X (no)
- 39. Air conditioning: (yes) (no) X
- 40. Ventilation: (yes) X (no)
- (SP) 41. Seats, front: Type of seat and upholstery individual - leather & vinyl
- 42. Seats, front: Weight (complete with supports and 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: Weight: 4.44 kg 9.75 lbs
- 45. Bumper, rear: Material: Weight: 3.08 kg 6.95 lbs

WHEELS

- 50. Type:
- 51. Weight: (per wheel, without tire) 10.9 kg 24.2 lbs
- 52. Method of attachment: Five lug bolts
- 53. Rim diameter: 381.0 mm 15.0 inches
- 54. Rim width: 203.2 mm 8.0 inches

STEERING

- 60. Type: parallel relay
- 61. Servo-assistance: X (yes) (~~no~~) (~~yes~~)
- 62. Number of turns of steering wheel from lock to lock: 2.92
- 63. In case of servo-assistance: 2.92

MAKE Chevrolet

MODEL Corvette L56

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SUSPENSION

- \* 70. Front suspension (Photo D) type: independent, short-long arm
- \* 71. Type of spring: coil
- (SP)72. Stabilizer (if fitted): transverse torsion bar
- 73. Number of shock absorbers: 2
- 74. Type: direct acting - telescopic
  
- \* 78. Rear suspension (Photo E) type: full independent - fixed differential
- \* 79. Type of spring: multi-leaf, transversely mounted
- (SP)80. Stabilizer (if fitted): transverse torsion bar
- 81. Number of shock absorbers: 2
- 82. Type: direct acting - telescopic

BRAKES (Photos F and G)

- \* 90. Method of operation: caliper-disc, foot operated hydraulic
- (SP)91. Power assisted (if fitted,) type: vacuum
- 92. Number of master cylinders: one-duplex

	<u>Front</u>		<u>Rear</u>	
93. Number of cylinders per wheel:		4		4
94. Bore of wheel cylinder:	<u>47.6</u> mm	<u>1.875</u> in	<u>35.0</u> mm	<u>1.375</u> in
(SP) <u>Drum Brakes:</u>				
95. Inside diameter:	_____ mm	_____ in	_____ mm	_____ in
96. Length of brake linings:	_____ mm	_____ in	_____ mm	_____ in
97. Width of brake linings:	_____ mm	_____ in	_____ mm	_____ in
98. Number of shoes per brake:				
99. Total area per brake:	_____ mm <sup>2</sup>	_____ in <sup>2</sup>	_____ mm <sup>2</sup>	_____ in <sup>2</sup>
(SP) <u>Disc Brakes:</u>				
100. Outside diameter	<u>298.4</u> mm	<u>11.75</u> in	<u>298.4</u> mm	<u>11.75</u> in
101. Thickness of disc:	<u>31.75</u> mm	<u>1.25</u> in	<u>31.75</u> mm	<u>1.25</u> in
102. Length of brake linings:	<u>151.4</u> mm	<u>5.96</u> in	<u>151.4</u> mm	<u>5.96</u> in
103. Width of brake linings:	<u>56.1</u> mm	<u>2.21</u> in	<u>56.1</u> mm	<u>2.21</u> in
104. Number of pads per brake:		2		2
105. Total area per brake:	<u>1606.8</u> mm <sup>2</sup>	<u>226.3</u> in <sup>2</sup>	<u>1606.8</u> mm <sup>2</sup>	<u>226.3</u> in <sup>2</sup>

MAKE Chevrolet

MODEL Corvette LS6

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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: 108.0 mm 4.25 inches
- \* 134. Stroke: 101.6 mm 4.00 inches
- \* 135. Capacity per cylinder: 929.9 cm<sup>3</sup> 56.7 cu in
- \* 136. Total cylinder capacity: 7445.6 cm<sup>3</sup> 454 cu in
- \* 137. Material of cylinder block: Cast iron alloy
- \* 138. Material of sleeves (if fitted): None
- \* 139. Cylinder head material: Aluminum 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: 116.5 cm<sup>3</sup> 7.1 cu in
- (SP)144. Piston, material: Aluminum
- (SP)145. Number of rings: 3
- (SP)146. - Distance from gudgeon pin centre line to highest point of piston crown: 44.7 mm 1.76 inches
- \* 147. Crankshaft: (cast) (forged) X
- \* 148. Crankshaft, type: (integral) X (sectioned)
- \* 149. Crankshaft, number of main bearings: 5
- \* 150. - Material of bearing cap: Cast iron alloy
- 151. System of lubrication: (dry sump) (oil in sump) X
- 152. Lubricant capacity: 6.6 litres 14 pints 7 quarts U.S.
- (SP)153. Oil cooler: X (yes) (no)
- \* 154. Method of engine cooling: Liquid
- 155. Capacity of cooling system: 21.7 litres 46 pints 23 quarts U.S.
- (SP)156. Cooling fan (if fitted) diameter: 44.5 cm 17.5 inches Dna
- (SP)157. Number of blades of cooling fan: 5 Dna

BEARINGS

- \* 158. Crankshaft, main, type: Insert Diameter: 69.85 mm 2.750 inches
- \* 159. Connecting rod, big end, type: Diameter: 55.90 mm 2.201 inches

WEIGHTS

- (SP)160. Flywheel (clean): 13.650 kg 30.1 lbs
- (SP)161. Flywheel with clutch (all rotating parts): 25.895 kg 57.1 lbs
- (SP)162. Crankshaft: 31.972 kg 70.5 lbs
- (SP)163. Connecting Rod: .907 kg 2.0 lbs
- (SP)164. Piston with rings and pin: .807 kg 1.78 lbs

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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: Aluminum
- 181. Overall diameter of valves: 55.8 mm 2.20 inches
- (SP) 182. Maximum valve lift: 13.2 mm .519 inches
- 183. Number of valve springs: 2 + Damper
- 184. Type of spring: Coil
- \* 185. Number of valves per cylinder: 1
- (SP) 186. Tappet clearance for checking timing (cold) .61 mm .024 inches
- (SP) 187. Valves open at (with tolerance for tappet clearance indicated): 44° BTC
- (SP) 188. Valves close at (with tolerance for tappet clearance indicated): 92° ABC
- (SP) 189. Air filter: (~~wet~~) (dry) Cartridge type: (yes) (~~xxxx~~)

EXHAUST (see Photo Q)

- 195. Material of exhaust manifold: Cast Iron
- 196. Overall diameter of valves: 47.7 mm 1.88 inches
- (SP) 197. Maximum valve lift: 13.2 mm .519 inches
- 198. Number of valve springs: 2 + Damper
- 199. Type of spring: Coil at .024
- \* 200. Number of valves per cylinder: 1
- (SP) 201. Tappet clearance for checking timing (cold) .71 mm .028 inches
- (SP) 202. Valves open at (with tolerance for tappet clearance indicated): 86° BBC
- (SP) 203. Valves close at (with tolerance for tappet clearance indicated): 36° ATC
- (SP) 204. Inside diameter of exhaust manifold outlet: 2.50 in. 63.5 mm at .028

CARBURETION (see Photo N)

- 210. Number of carburetors fitted: One
- (SP) 211. Type: Downdraft Vacuum Secondary 4 BBL
- (SP) 212. Make: Holley
- (SP) 213. Model: 4150-R 4803
- 214. Number of mixture passages per carburetor: 4
- (SP) 215. Flange hole diameter of exit port of carburetor: 42.86 mm 1.69 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): 36.4 mm 1.43 inches

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

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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:

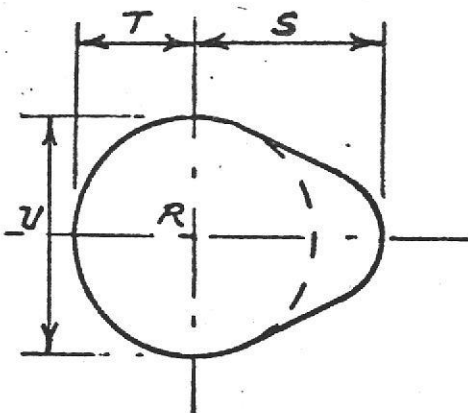
ENGINE ACCESSORIES

- (SP)230. Fuel pump: mechanical and/or electrical
- 231. Number fitted: \_\_\_\_\_ Mechanical
- 232. Type of ignition system: \_\_\_\_\_ One
- 233. Number of distributors: \_\_\_\_\_ Coil & transistor
- 234. Number of ignition coils: \_\_\_\_\_ One
- 235. Number of spark plugs per cylinder: \_\_\_\_\_ One
- (SP)236. Generator type: (dynamo) (alternator) X \_\_\_\_\_ Number: One
- 237. Method of drive: \_\_\_\_\_ Belt
- 238. Voltage of generator: 12 volts
- 239. Battery, number: One
- 240. Location of battery: Rear compartment
- 241. Voltage of battery: 12 volts

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

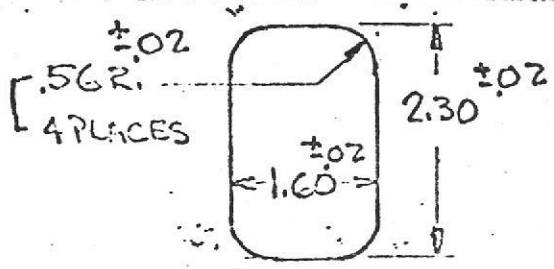
- (SP)250. -Horsepower, maximum engine output: SAE 325 at: 5600 rpm  
(indicate SAE or DIN)
- (SP)251. Maximum rpm: 5600 (SP) Output at that figure: 325 H.P. S.A.E.
- (SP)252. Maximum torque: 390 at: 3600 rpm
- (SP)253. Maximum speed: \_\_\_\_\_ km/hour \_\_\_\_\_ N.A. miles/hour

255. CAM

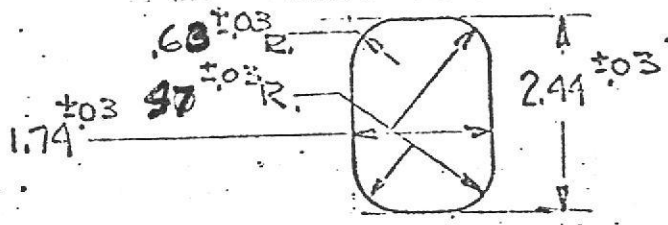


- (SP) Inlet cam
  - S = 24.0 mm .945 inches
  - T = 16.3 mm .640 inches
  - U = 32.5 mm 1.280 inches
- (SP) Exhaust cam
  - S = 24.0 mm .945 inches
  - T = 16.2 mm .640 inches
  - U = 32.5 mm 1.280 inches

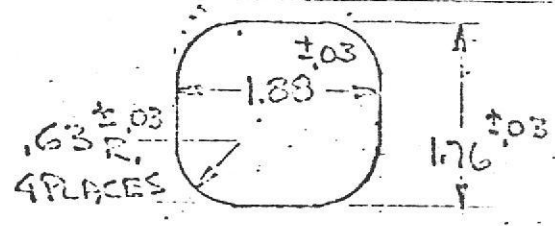
Drawing inlet manifold ports, side of cylinder head. Indicate scale or dimensions and manufacturing tolerance.



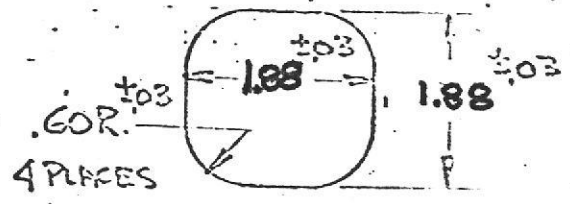
Drawing of entrance to inlet port of cylinder head. Indicate scale or dimensions and manufacturing tolerance.



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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DRIVE TRAIN

Clutch

- 260. Type of clutch: dry plate
- 261. Number of plates: two
- 262. Diameter of clutch plates: 25.4 mm 10.0 inches
- 263. Inside diameter of lining: 15.2 mm 6.0 inches
- Outside diameter of lining: 25.4 mm 10.0 inches
- 264. Method of operation: foot - mechanical linkage

Gear Box (Photo H)

- \* 270. Manual type, make: Chevrolet Method of operation: Manual floor shift
- \* 271. Number of gear box forward ratios: four
- 272. Synchronized forward ratios: all four
- 273. Location of gear-shift: floor
- \* 274. Automatic, make: D.N.A. Type:
- \* 275. Number of forward ratios:
- 276. Location of gear-shift:

277. -	Manual		Automatic		Alternative Manual/Automatic			
	Ratio	No. Teeth	Ratio	No. Teeth	Ratio	No. Teeth	Ratio	No. Teeth
1	2.20	$\frac{27}{26} \times \frac{36}{17}$						
2	1.64	$\frac{27}{26} \times \frac{30}{19}$						
3	1.27	$\frac{27}{26} \times \frac{27}{22}$						
4	1.00							
5								
6								
Reverse	2.26							

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

FINAL DRIVE

- \* 290. Type of final drive: Hypoid ring gear & pinion
- \* 291. Type of differential: Limited slip
- \* 292. Type of limited slip differential (if fitted): friction
- 293. Final drive ratio:
- Number of teeth:

3.36      3.55

Teeth       $\frac{37}{11}$        $\frac{32}{9}$

MAKE

Chevrolet

MODEL

Corvette

LS6

FIA REC. #

3039

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

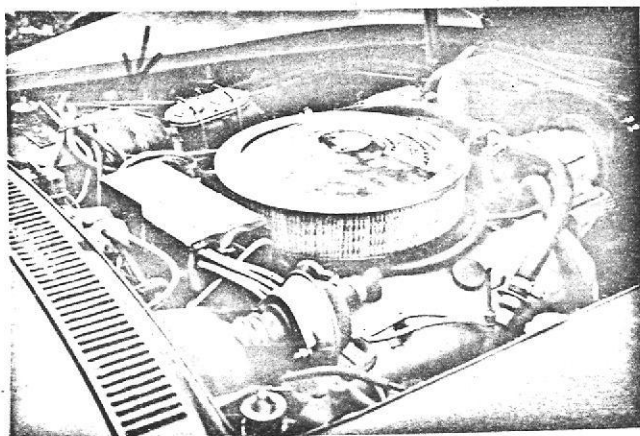
Lining material - RM 4528-2

#5468883 Shoe Assy. Front

#5452516 Shoe Assy. Rear

J-50 Booster part of J-56

#3956739 Booster Assembly



Booster Installation

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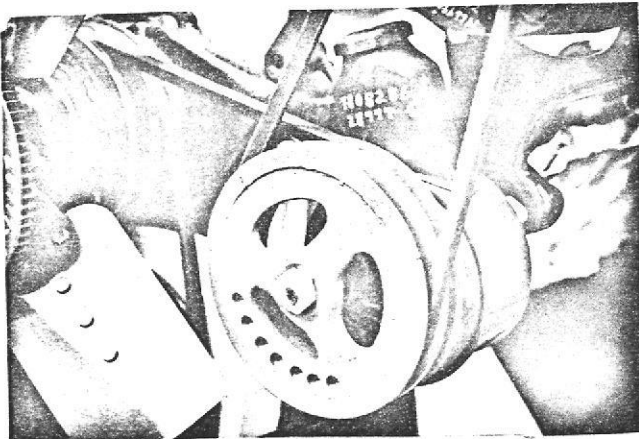
Option:

N-40 Power steering

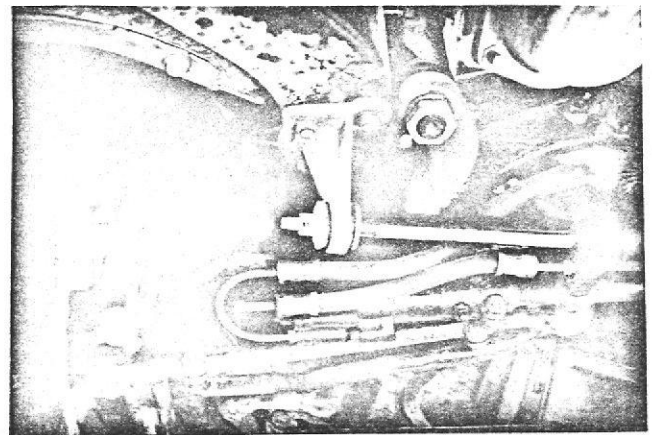
#7808286 Pump assembly

#5691112 Booster assembly

#5691955 Valve assembly



Pump Installation



Booster & Valve Assy.

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3039

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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:

M-22 Heavy duty transmission

#3978766 Assy.

Picture same as H - Gear box

Ratio same as #277

Gear tooth helix angle different

M-22 24° versus 40° base 4-speed

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MODEL Corvette L56

FIA REC. # 3039

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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:

F-41 Heavy duty suspension

Description same as #70.-74. & #78.-82.

Picture same as D & E

#3832518 Spring - Front

#3828811 Spring - Rear

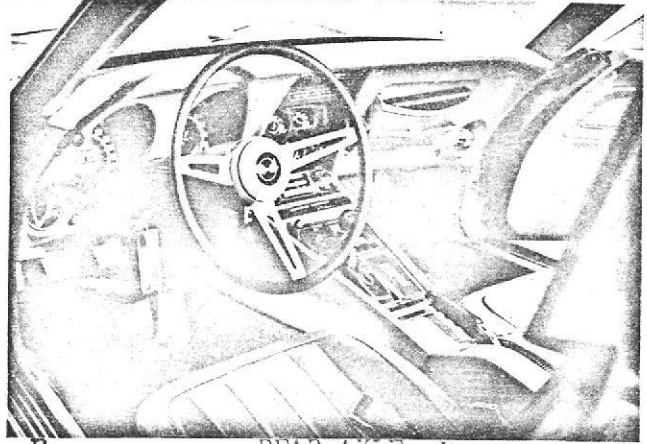
#3166559 Shock Absorber - Front

#3166560 Shock Absorber - Rear

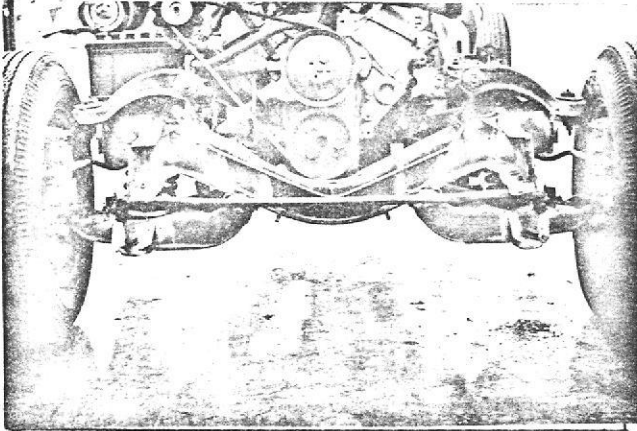
B 3/4 REAR CAR \*



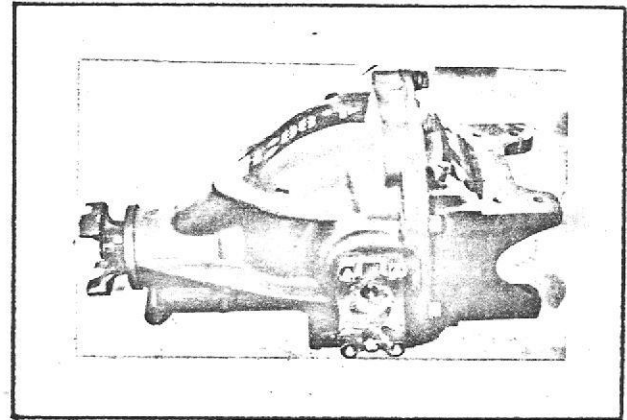
C INTERIOR CAR



D FRONT AXLE \*



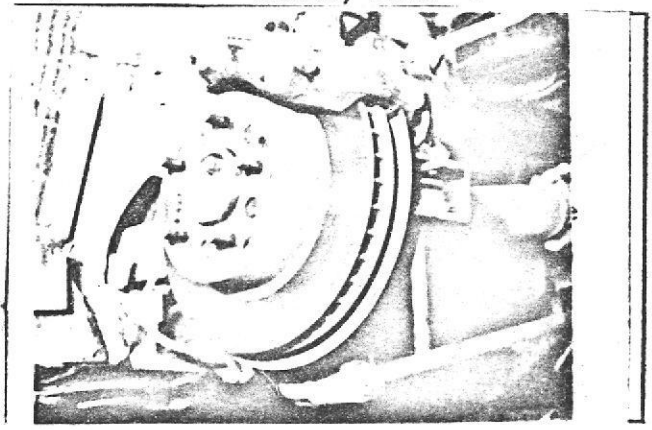
E REAR AXLE \*



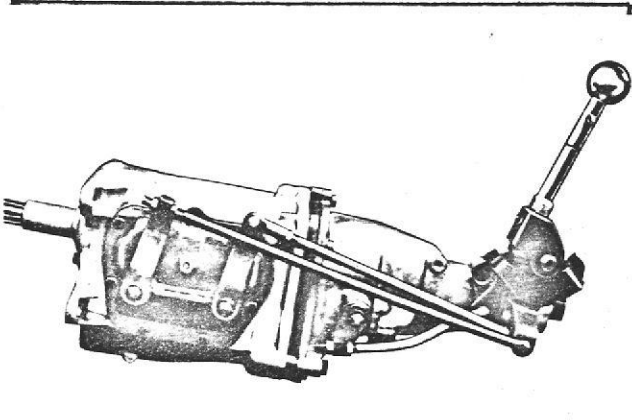
F BRAKE, FRONT \*



G BRAKE, REAR \*



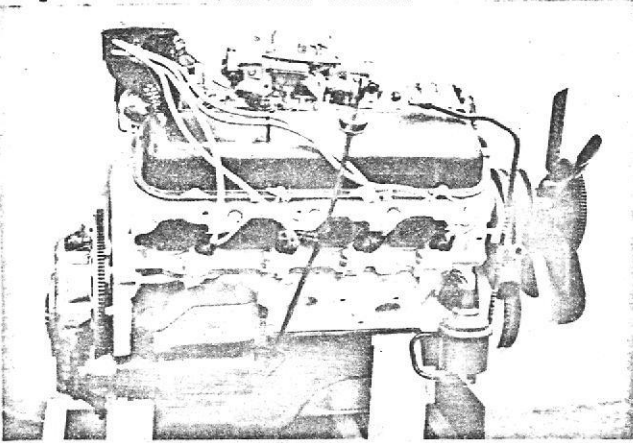
H GEAR BOX \*



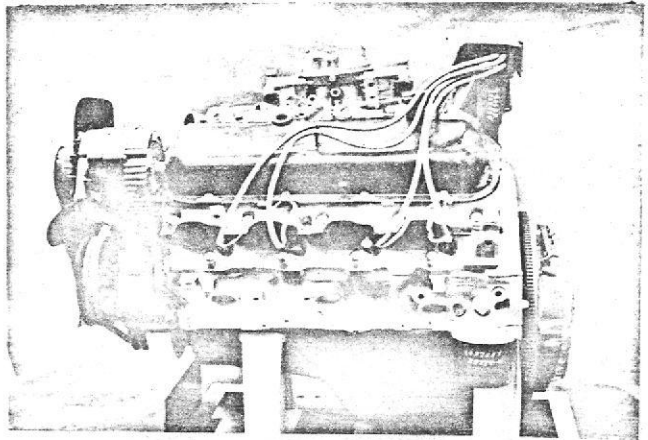
I EXHAUST SYSTEM



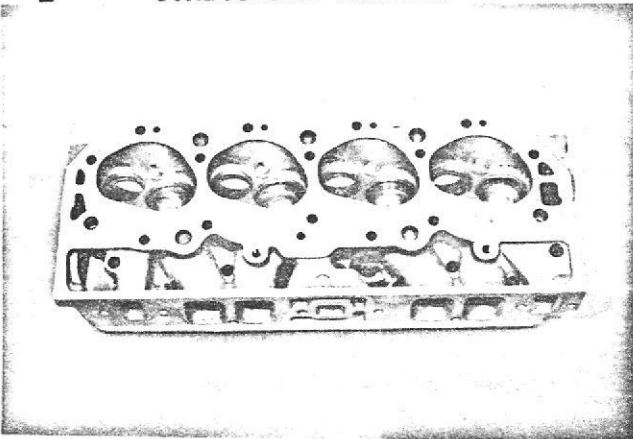
J ENGINE RIGHT \*



K ENGINE LEFT \*



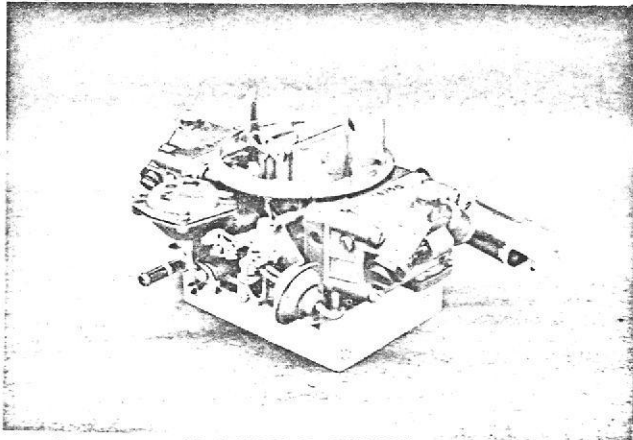
L COMBUSTION CHAMBER



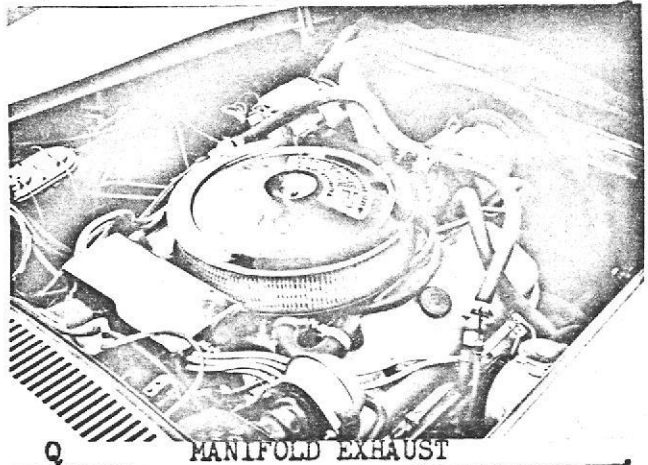
M PISTON TOP



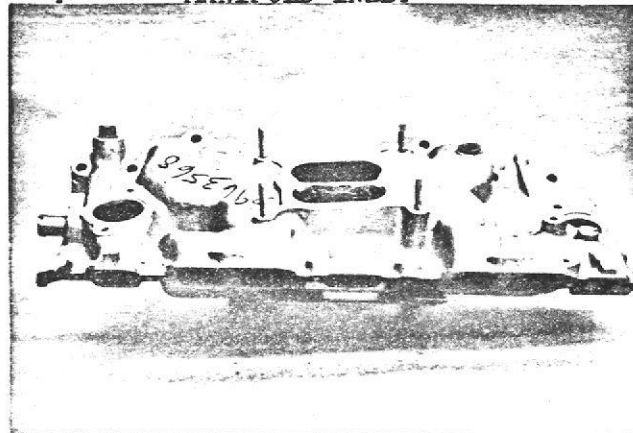
N CARBURETOR



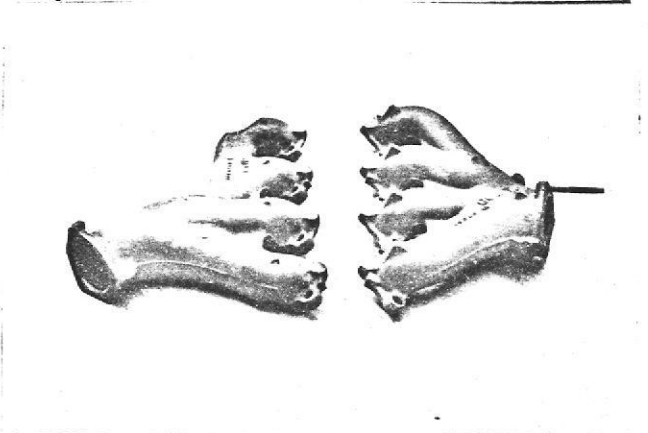
O ENGINE IN PLACE \*



P MANIFOLD INLET



Q MANIFOLD EXHAUST

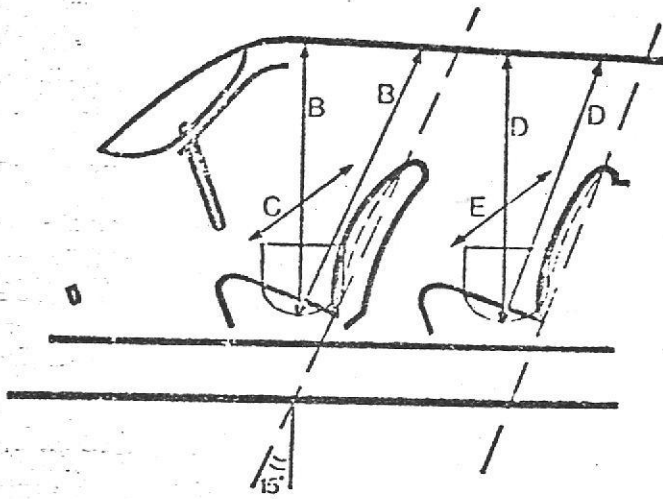


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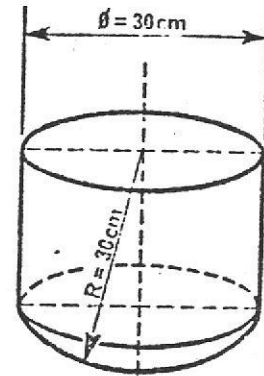
MODEL Corvette

LS6

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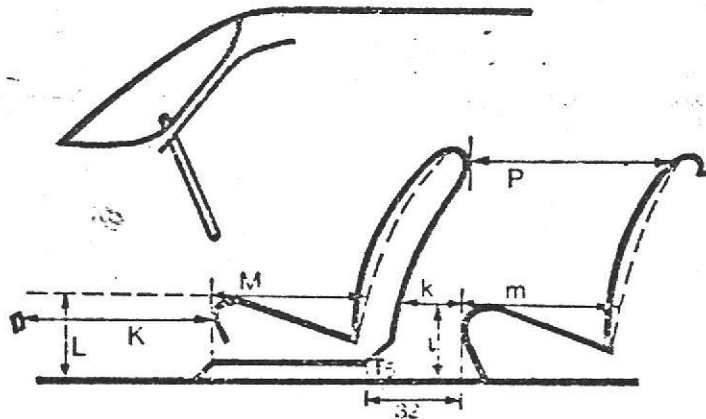


Dessin/drawing No. 1



Weight/lare 60 kgs + 200 grms.  
Dessin/drawing No. 2

Dimension	Inches	MM
B =	36.50	927.10
C =	_____	_____
D =	_____	_____
E =	_____	_____



Dessin/drawing No. 3

Dimension	Inches	MM	Dimension	Inches	MM
L =	8.8"	223.5	l =	_____	_____
M =	15.2"	386.1	m =	_____	_____
K =	17.5-22"	444.5 - 558.8	k =	_____	_____
P =	_____	_____			

STAMP

STAMP





Cable Address: "ACCUSFIA" Stamford, Conn.

Telephone:

AUTOMOBILE COM.

R THE UNITED STATES, F.I.A., INC.

MR.

ET, C

06901

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

PRODUCTION CERTIFICATE

Date May 10, 1971

MANUFACTURER Chevrolet Motor Div. G.M.C.

MODEL DESIGNATION Corvette 19467 & 19437 LS-6

TYPE DESIGNATION Grand Touring

PRODUCTION PERIOD: From August 1970

To March 1971

Monthly Production

Month/Year	Number
Dec. 1970	220
Jan. 1971	431
Feb. 1971	705
TOTAL	1356
REMARKS:	

I hereby certify that the production mentioned hereabove concerns cars which are entirely completed and in conformity with the specifications of the recognition form submitted for the said model and type.

Signed for Manufacturer Z. Akers-Bentley

Title: Chief Engineer

Production Verification Date 5/12/71

By P. W. John

Title Prod. Liaison Eng.