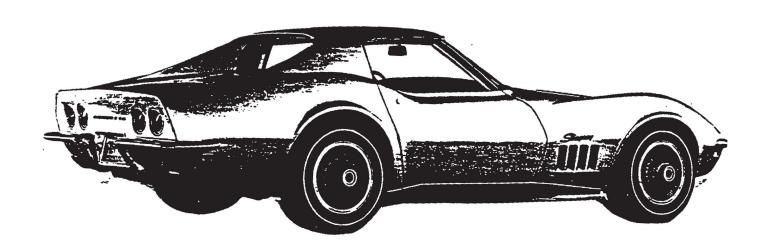
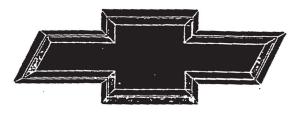
1969

CORVETTE

SPECIFICATIONS





1969 CORVETTE

Production: 22,129 coupe, 16,633 convertible, 38,762 total.

1969 NUMBERS

Vehicle: 194379S700001 through 194379S738762
• For convertibles, fourth digit is a 6.

Suffix: GC: 350ci, 350hp, mt, ig LT: 427ci, 435hp, mt, hc GD: 350ci, 350hp, mt, ac, ig LU: 427ci, 435hp, mt, ah, hc LV: 427ci, 430hp(L88), at HW: 350ci, 350hp, mt HX: 350ci, 350hp, mt, ac LW: 427ci, 435hp, at, ah HY: 350ci, 300hp, mt LX: 427ci, 435hp, at HZ: 350ci, 300hp, at ME: 427ci, 430hp(ZL1), mt LL: 427ci, 390hp, at MG: 427ci, 430hp(ZL1), at LM: 427ci, 390hp, mt MH: 427ci, 390hp, mt, ig Mi: 427ci, 390hp, at, ig LN: 427ci, 400hp, at -LO: 427ci, 430hp, mt MJ: 427ci, 400hp, at, ig LP: 427ci, 435hp, mt, ah MK: 427ci, 400hp, mt, ig MR: 427ci, 430hp(L88), mt LQ: 427ci, 400hp, mt

LR: 427ci, 435hp, mt MS: 427ci, uu

Block: 3932386: 350ci, 300hp, 350hp

3935439. 427ci, 390np, 400np, 430np, 435np 3955270: 427ci, 390np, 400np, 430np, 435np

3956618: 350ci, 300hp, 350hp

3963512: 427ci, 390np, 400np, 430hp, 435hp, ip

3970010: 350ci, 300hp, 350hp, lp

Head: 3919840: 427ci, 435hp, ih 3931063: 427ci, 390hp, 400hp

3919842: 427ci, 435hp, ah 3927186: 350ci, 300hp, 350hp 3947041: 350ci, 300hp

3927187: 350ci, 300hp

Carb: Rochester Q-jet #7029202: 350ci, 300hp, at

Rochester Q-jet #7029203: 350ci, 300hp, mt Rochester Q-jet #7029204: 427ci, 390hp, at Rochester Q-jet #7029207: 350ci, 350hp, mt Rochester Q-jet #7029215: 427ci, 390hp, mt

Holley R3659A #3902353: 427ci, 400hp(fc,rc), 435hp(fc,rc) Holley R4055-1A #3940929: 427ci, 400hp(cc,mt), 435hp(cc)

Holley R4056-1A #3940930: 427ci, 400hp, cc, at Holley R4054A #3925519: 427ci, 430hp, fd Holley R4296A #3955205: 427ci, 430hp, sd

Distributor: 1111490: 350ci, 300hp 1111926: 427ci, 390hp, 400hp 1111491: 350ci, 350hp, ig 1111928: 427ci, 435hp, ig

1111493: 350ci, 350hp 1111954: 427ci, 390hp, 400hp, ig

1111927: 427ci, 430hp. ig

Alternator: 1100825; ac and/or ig 1100882; 427ci, 430hp,435hp,ig

1100833: 427ci, 390hp, 400hp 1100884: 350ci, 300hp, ac (uu)

1100859: 350ci, 300hp, 350hp

Ending Vehicle: Sep 68: 703041 Feb 69: 717571 Aug 69: 728107

Oct 68: 706272 Mar 69: 720543 Sep 69: 730963 Nov 68: 709159 Apr 69: 721315 Oct 69: 734067 Dec 68: 711742 Jun 69: 723374 Nov 69: 736798 Jan 69: 714695 Jul 69: 725875 Dec 69: 738762

Abbreviations: ac=air conditioning, ah=aluminum heads, at=automatic transmission, cc=center carburetor, ci=cubic inch, td=first design, tc=front carburetor, hc=heavy-duty clutch, hp=horsepower, ig=transistor ignition, ih=iron head, lp=late production, mt=manual transmission, ps=power steering, rc=rear carburetor, sd=second design, uu=uncertain usage.

1969 OPTIONS

1000	01 110110	
RPO#	DESCRIPTION QTY	RETAIL \$
19437	Base Corvette Sport Coupe22.129	\$4,781.00
19467	Base Corvette Convertible	4,438.00
	Genuine Leather Seats	79.00
A01	Soft Ray Tinted Glass, all windows31,270	16.90
A31	Power Windows	- 63.20
A82	Headrests38,762	17.95
A85	Headrests	42.15
C07	Auxiliary Hardtop (for convertible)	252.80
C08	Vinyl Covering (for auxiliary hardtop)3,266	57.95
C50	Rear Window Defroster2,485	32.65
C60	Air Conditioning11.859	428.70
F41	Special Front and Rear Suspension 1,661	36.90
G81	Positraction Rear Axle, all ratios	46.35
J50	Power Brakes	42.15
J56	Power Brakes	384.45
K05	Engine Block Heater824	10.55
K66	Transistor Ignition System5,702	81.10
L36	427ci, 390hp Engine	221.20
L46	350ci, 350hp Engine	131.65
L68	427ci, 400hp Engine	326,55
L71	427ci, 435hp Engine2.722	437.10
L88	427ci 430hn Engine 116	1,032.15
L89	427ci, 430hp Engine	832.05
MA6	Heavy Duty Clutch	79.00
M20	4-Speed Manual Transmission	184.80
M21	4-Speed Man Trans, close ratio	184.80
M22	4-Speed Man Trans, close ratio. heavy duty 101	290.40
M40	Turbo Hydra-Matic Automatic Transmission .8,161	221.80
N14	Side Mount Exhaust System	147.45
N37	Tilt-Telescopic Steering Column	84.30
N40	Pawer Steering Column	105.35
P02	Power Steering	57.95
PT6	Deligite virieer Covers	31.30
PT7	Red Stripe Tires, F70x15, nylon	31.30
	White Stripe Tires, F70x15, nylon	
PU9 TJ2	White Letter Tires, F70x15, nylon2,398	33.15
	Front Fender Louver Trim	21.10
UA6	Alarm System	26.35
U15	Speed Warning Indicator	11.60
U69	AM-FM Radio	172.75
U79	AM-FM Radio, stereo4,114	
ZL1	Special L88 (aluminum block)2	4,718.35

• A 350ci, 300hp engine, 3-speed manual transmission, vinyl interior, and soft top (conv) or T-tops (cpe) were included in the base. A82 was a required RPO early, then part of base. M40 cost \$290.40 with L71 or L88.

1969 COLORS

100				
CODE	EXTERIOR	SOFT TOP	WHEELS	INTERIORS
900	Tuxedo Black	Bk-W-Bg	Silver	Bk-Bb-G-Gu-R-S
972	Can-Am White	Bk-W-Bg	Silver	Bk-Bb-G-Gu-R-S
974	Monza Red	Bk-W-Bg	Silver	Bk-R-S
976	LeMans Blue	Bk-W-Bg	Silver	Bk-Bb
980	Riverside Gold	Bk-W-Bg	Silver	Bk-S
983	Fathom Green	Bk-W-Bg	Silver	Bk-G-S
984	Daytona Yellow	Bk-W-Bg	Silver	Bk
986	Cortez Silver	Bk-W-Bg	Silver	Bk-Bb-Gi-Gu-R-S
988	Burgundy	Bk-W-Bg	Silver	Bk-S
990	Monaco Orange	Bk-W-Bg	Silver	Bk
 Sugge 	ested interiors shows	n. Other com	nbinations v	were posisible.
Interio	r Codes: ZQ4 or std=	Bk/V. 402=Bk	/L 407=R/	/,408=R/L,411=Bb/V,
412=BI	0/L. 416=G/V. 417=0	3/L 420=S/V	. 421=S/L.	427=G/V, 428=G/L.
	viations: Bb=Bright			
	inmetal, L=Leather, I			
CDECT	iningiai, Leleaniei, i	חבוחפט, סבסו	addie, a=a	my, wasvinte.

The Corvette Black Book

1953-1993

Published by October 1992

Michael Bruce Associates, Inc.



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SECTION 0 GENERAL INFORMATION AND LUBRICATION

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GENERAL INFORMATION

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Model Identification and Vehicle Dimensions	0-1 0-2 0-2	Unit and Serial Numbers Engine and Transmission Number Vehicle Serial Number	(V.I.N.)	0-3
<u> </u>				

MODEL IDENTIFICATION—CHEVROLET

6	Model !	lumber	Description
Series	6-Cyl.	V-8	
Biscayne	15311 15369 15336	15411 15469 15 43 6	2-Door Sedan, 6-Pass. 4-Door Sedan, 6-Pass. 4-Door Station Wagon, 2-Seat (Brookwood)
Bel Air	15511 15569 15536 15546	15611 15669 15639 15646	2-Door Sedan, 6-Pass. 4-Door Sedan, 6-Pass. 4-Door Station Wagon, 2-Seat (Townsman) 4-Door Station Wagon, 3-Seat (Townsman)
Impala	16369 16339 16337 — —	16469 16439 16437 16467 16436 16446	4-Door Sedan, 6-Pass. 4-Door Sport Sedan, 6-Pass. 2-Door Sport Coupe, 5-Pass.* 2-Door Convertible, 5-Pass.* 4-Door Station Wagon, 2-Seat (Kingswood) 4-Door Station Wagon, 3-Seat (Kingswood)
Impala Custom	_	16447	2-Door Sport Coupe, 5-Pass.*
Caprice	- - -	16639 16647 16636 16646	4-Door Sport Sedan, 6-Pass. 2-Door Sport Coupe, 5-Pass.* 4-Door Station Wagon, 2-Seat (Estate Wagon) 4-Door Station Wagon, 3-Seat (Estate Wagon)

^{*4-}Passenger when optional bucket front seats specified.

VEHICLE DIMENSIONS-CHEVROLET

Pertinent dimensions for the different models are shown in the following chart.

Sedan	Sport Coupe	Coupe	Wagon
214.7"	214.7"	214.7"	213.9"
79.6"	79.6"	79.6"	79.6"
55.8"	54.3"	54.3"	56.7"
119.0"	119.0"	119.0"	119.0"
62.5"	62.5"	62.5"	63.5"
62.4"	62.4"	62.4"	63.4"
	214.7" 79.6" 55.8" 119.0" 62.5"	Sport Coupe	Sport Coupe Coupe 214.7" 214.7" 79.6" 79.6" 55.8" 54.3" 119.0" 119.0" 62.5" 62.5"

MODEL IDENTIFICATION—CHEVELLE

Series	Model	Number	Pagesistics		
Series	6-Cyl.	V-8	Description		
Nomad	13135	13235	4-Door Station Wagon, 2-Seat		
	13136	13236	4-Door Station Wagon, 2-Seat .		
	13369	13469	4-Door Sedan, 6-Pass.		
	13327	13427	2-Door Pillar Coupe, 5-Pass.		
	13337	13437	2-Door Sport Coupe, 5-Pass.		
300 Deluxe	13335	13435	4-Door Station Wagon, 2-Seat (Greenbrier)		
	13336	13436	4-Door Station Wagon, 2-Seat (Greenbrier)		
	13346	13446	4-Door Station Wagon, 3-Seat (Greenbrier)		
•	13569	13669	4-Door Sedan, 6-Pass,		
	13539	13639	4-Door Sport Sedan, 6-Pass.		
Malibu	13537	13637	2-Door Sport Coupe, 5-Pass. *		
Manou	13567	13667	2-Door Convertible, 5-Pass. *		
•	13536	13636	4-Door Station Wagon, 2-Seat (Concours)		
	13546	13646	4-Door Station Wagon, 3-Seat (Concours)		
Super Sport	-	13837	2-Door Sport Coupe, 5-Pass.*		
Consessed Estate Western	-	13836	4-Door Station Wagon, 2-Seat		
Concours Estate Wagon	-	13846	4-Door Station Wagon, 3-Seat		
	13380	13480	2-Door Sedan Pickup, 3-Pass. Deluxe		
El Camino	13580	13680	2-Door Sedan Pickup, 3-Pass. Malibu		
	-	13880	2-Door Sedan Pickup, 3-Pass. Super Sport		

^{*4-}Passenger when optional bucket seats are ordered.

VEHICLE DIMENSIONS—CHEVELLE

Pertinent dimensions for the different models are shown in the following chart

Model	Sedan	2-Door Sport Coupe	Convertible Coupe	Station Wagon	Sedan Pickup
Length Overall	201.8"	197.1"	197.1"	207.1"	207.1"
Width Overall (Body)	75.7"	75.7"	75.7"	75.7"	75.7"
Height Overall	53.3"	52.7"	53.2"	55.2"	54.0"
Wheelbase	116.0"	112.0"	112.0"	116.0"	116.0"
Tread-Front	59.0"	59.0"	59.0"	59.0"	59.0"
Tread-Rear	59.0"	59.0"	59.0"	59.0"	59.0"

MODEL IDENTIFICATION-NOVA

Мос	iel Numi	per	Description		
4-Cyl.	6-Cy1.	V-8	Description		
11127	11327	11427	2-Door Sport Coupe, 5-Pass.		
11169	11369	11469	4-Door Sedan, 6-Pass.		

VEHICLE DIMENSIONS—NOVA

VEHICLE DIMENSIONS—NOVA						
Model	Sedan	2-Door Sport Coupe				
Length Overall	189.4"	189.4"				
Width Overall (Body)	70.5"	70.5"				
Height Overall	53.7"	54.4"				
Wheelbase	111.0"	111.0"				
Tread-Front	59.0"	59.0"				
Tread-Rear	58.9"	58.9"				
Curb Weight: Approximately 2920 lbs. 4-Door Sedan						
with L-4 Eng						
Engine; 3175 w	ith V-8 E	ngine.				

MODEL IDENTIFICATION—CAMARO

Model 1	Number	Description					
6-Cyl.	V-8	Description					
12337	12437	2-Door Sport Coupe, 4-Passenger					
12367	12467	2-Door Convertible, 4-Passenger					

VEHICLE DIMENSIONS—CAMARO

Model	Sport Coupe	Convertible
Length Overall	184. 72. 50. 108. 59.	.3'' .8'' .0''
Weight: Sport Coupe wit V-8 Engine 3105		50 lbs.; with

MODEL IDENTIFICATION—CORVETTE

Model Number	Description
19437	2-Door Sport Coupe, 2-Passenger
19467	2-Door Convertible, 2-Passenger

VEHICLE DIMENSIONS—CORVETTE

Model	Convertible	Sport Coupe
Length Overall	182.1" 69.2" 47.8" 98.0" 58.3" 59.0"	47.8"
Curb Weight: 3220 lbs. 3210 lbs. with Base	Sport Coupe	

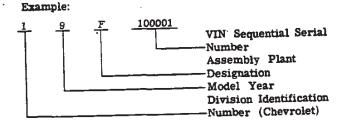
UNIT AND SERIAL NUMBER LOCATIONS

For the convenience of servicemen when writing up certain business papers, such as L. & M.R.'s Product Information Reports, or reporting product failures in any way, we are showing on a chart, the location of various unit numbers. These unit numbers and their prefixes and suffixes are necessary on these papers for various reasons—such as accounting, follow-up on production, etc.

The prefixes on certain units identify the plant in which the unit was manufactured, and thereby permits proper follow-up of the plant involved to get corrections made when necessary.

ENGINE AND TRANSMISSION NUMBER

The Vehicle Identification Number is stamped on the engine and transmission of each vehicle (see chart for location).



At multi-car plants where more than one Chevrolet series is produced, the VIN sequence numbers will be staggered to eliminate duplication of component identification numbers.

Example:

Los Angeles	VIN Sequence
15000-16000 Series (First Vehicle) 12000 Series	100001
(First Vehicle)	<u>5</u> 00001

VEHICLE COMPONENT SERIAL AND UNIT NUMBER LOCATION

Component	Model	Location
Vehicle Serial Number Plate	All	Top of instrument panel left, front
Body Number, Trim and Point Plate	Chevrolet Chevelle Nova Camaro Corvette	Upper right-hand side of dash panel Upper left-hand door hinge pillar
Engine and Transmission Vehicle Identification Number	4 & 6 Cyl. 8 Cylinder 3-Spd. (Muncie) 4-Spd. (Muncie) 3-4 Spd. (Saginaw) Powerglide Turbo Hydra-matic 350 Turbo Hydra-matic 400	On pad at right-hand side of cylinder block at rear of distributor On pad at front, right-hand side of cylinder block On boss right above filler plug On right side of case at lower rear of cover flange On lower right side of case adjacent to rear of cover On left upper flange of converter opening of transmission housing
Rear Axle Number	All except Corvette Corvette	On right or left axle tube adjacent to carrier On bottom surface of carrier at cover mounting flange
Delcotron	All	On top drive end frame
Starter	All	Stamped on outer case, toward rear
Battery	A11	On cell cover segment, top of battery

Vehicle Serial Number

A typical vehicle serial number tag yields manufacturer's identity, vehicle type, model year, assembly plant and production unit number when broken down as shown in the following chart.

Manufacturer			Assembly	Unit
Identity ¹			Plant 4	Numbers
1	5645	9	F	100025

¹ Manufacturers identity number assigned to all Chevrolet built vehicles.

KEYS AND LOCKS

Four keys (two rectangular head and two oval head) are provided with each vehicle. The rectangular head key

operates the ignition switch and front door locks. The oval-head key operates the locks for the glove box and rear compartment lid (spare tire compartment lid lock on Corvette).

PUSHING, TOWING AND LIFTING

Pushing

NOTE: Towing car to start is not recommended due to the possibility of the disabled car accelerating into tow car.

AUTOMATIC TRANSMISSION

Do not attempt to start the engine by pushing the car. Should the battery become discharged, it will be necessary to use an auxiliary battery with jumper cables to start the engine.

CAUTION: To prevent damage to electrical system, never connect booster batteries in excess of 12 volts and connect positive to positive and negative to negative.

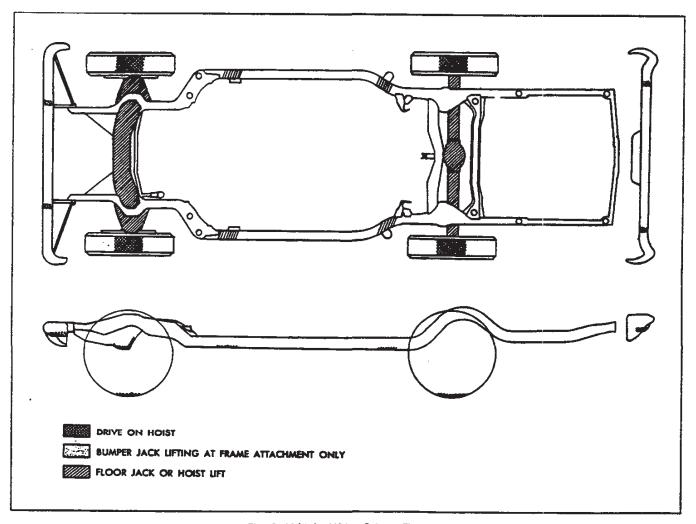


Fig. 1-Vehicle Lifting Points-Chevrolet

²See Model Identification in this section.

³ Last number of model year (1969).

⁴F-Flint

⁵Unit numbering will start at 100,001 at all plants.

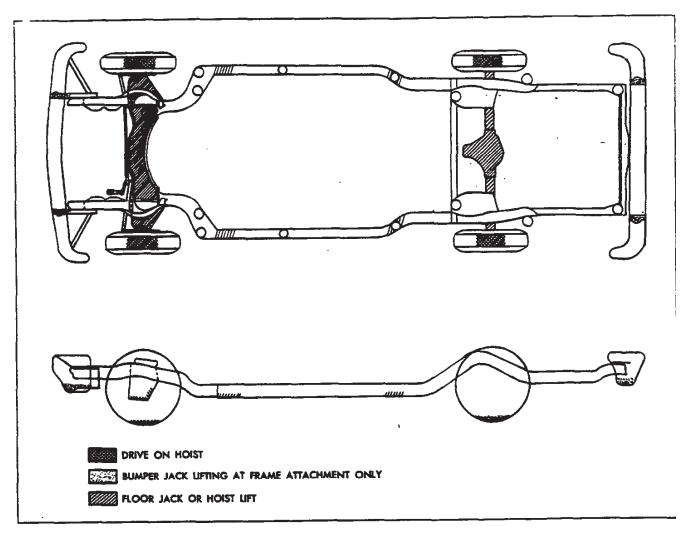


Fig. 2-Vehicle Lifting Points-Chevelle

Manual Transmission

When a push start is necessary turn off all electrical loads such as heater, radio, and if possible, lights, turn on the key, depress the clutch, and place the shift lever in high gear. Release the clutch when your speed reaches 10 to 15 miles per hour.

TOWING

The car may be towed safely on its rear wheels with the (selector lever in "N" (Neutral) position at speeds of 35 mile per hour or less under most conditions.

However, the drive shaft must be disconnected or the car towed on its front wheels if 1) Tow speeds in excess of 35 MPH are necessary, 2) Car must be towed for extended distances (over 50 miles) or, 3) Transmission is not operating properly. If car is towed on its front wheels, the steering wheel should be secured to maintain a straight ahead position.

TOWING THE CORVETTE

Towing with Rear End Raised (Figure 3 & 4)

Secure steering wheel to maintain a straight ahead

position. Connect standard chain hook ends around torque control arms just outboard of shock mounting bracket



Fig. 3—Connect Hooks Outboard of Shock

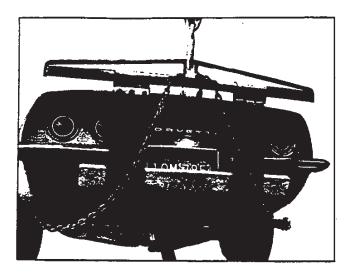


Fig. 4-Attaching Sling Assembly

Wire a 2 inch x 4 inch x 38 inch board securely to the rear bumper vertical bars as shown. Attach chains to lower lifting sling bar so that bar is underneath and just forward of rear valance panel. Slings should be adjusted on upper and lower sling bars so that they bear on bumper vertical bars.

Towing with Front End Raised (Figure 5 & 6)

The vehicle may be towed on its rear wheels with the selector lever in "N" (Neutral) position at speeds of 35 MPH or less under most conditions. The drive shaft must be disconnected if:

- 1. Tow speeds in excess of 35 MPH are necessary.
- Car must be towed for extended distances (over 50 miles).
- 3. Transmission is not operating properly.

Connect standard chain hook ends around opening in front lower control arm near front inner bushing. The chain should be attached to the lower lifting sling bar so that it rests against the front bumper vertical bars.

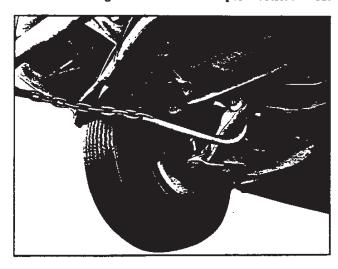


Fig. 5-Placing Hooks through Lower Control Arms

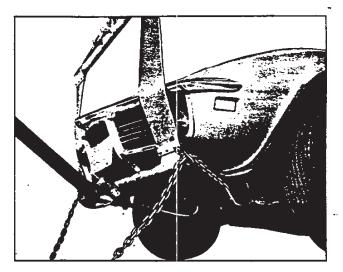


Fig. 6-Rest Lower Sling Bar against Bumper Vertical Bars

IMPORTANT: Due to the body overhang on the Corvette, it is recommended that the front or rear wheel be raised no more than three inches off the ground during towing, unless dollies are used. A height of 3" should provide the needed clearance for any road irregularities while still maintaining the needed clearance between the lowest portion of the body overhang and the ground.

Lifting Car

Many dealer service facilities and service stations are now equipped with a type of automotive hoist which must bear upon some part of the frame in order to lift the vehicle. In Figures 1, 2, 7, 8 the shaded areas indicate areas recommended for hoist contact.

LIFTING THE CORVETTE

Shaded areas in Figure 8 indicate recommended points for hoist or jack contact. When using a single post hoist place hoist on frame side rail behind kickup at front and forward of #3 body mount at rear. When using a twinpost hoist, two methods are recommended.

- a. If no rear axle or suspension work is contemplated, use either suspension adapters or drive-on adapters at the front, and drive-on adapters at the rear. If a need for axle work develops, use jack stands beneath the frame side rails on each side and lower rear post.
- b. If rear axle work is contemplated, use either suspension adapters or drive-on adapters at the front and frame lift adapters as shown in Figure 9. If frame lift adapters are not available, use jack stands.

NOTE: Wooden blocks, bolted to steel beam shown in Figure 9 are necessary to allow beam to clear exhaust system.

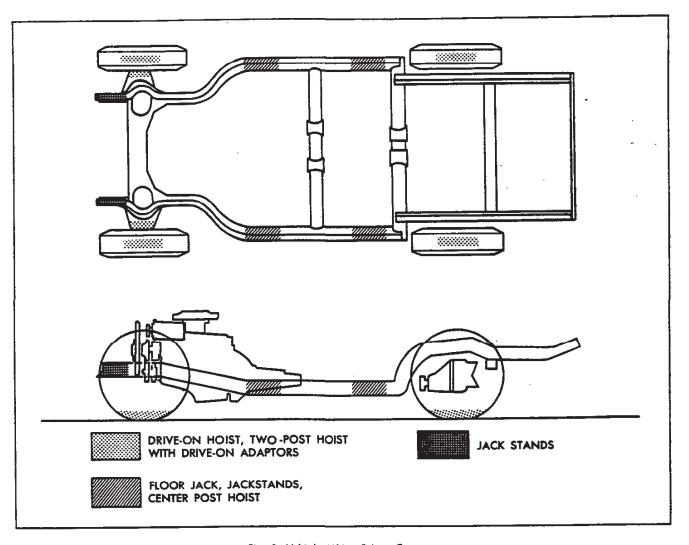


Fig. 8-Vehicle Lifting Points-Corvette

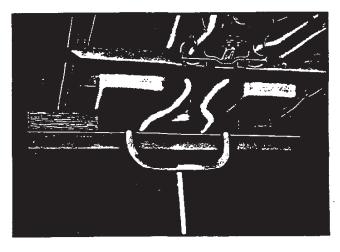


Fig. 9—Frame Lift Adapters—Corvette

LUBRICATION

			rage
Engine			. 0-9
Crankcase Capacities		•	. 0-9
Lubrication		٠	
SAE Viscosity Oils	•		
Types of Oils			. 0-10
Maintaining Oil Level		•	. 0-10
Crankcase Dilution			. 0-10
Crankcase Ventilation			. 0-10
Positive Crankcase Ventilation (P.C.V.) Valve .			
Air Injection Reactor (A.I.R.)			. 0-10
Manifold Heat Control Valve			- 0-11
Engine Oil Filter		٠	
Air Cleaner		٠	0-11
Polyurethane Type	•	•	. 0-11
Oil Wetted Paper Element Type	٠		· 0-11
Fuel Filter		٠	. 0-11
Distributor Cam Lubricator			. 0-11

The time or mileage intervals on the following pages are intended as a general guide for establishing regular maintenance and lubrication periods for your car. Sustained heavy duty or high speed operations or operation under adverse conditions may necessitate more frequent servicing.

ENGINE

CRANKCASE CAPACITY

4	Cylinder																				4	qt.
ŝ	Cylinder				_	_	Ī					Ī	ì								4	qt.
g	Cylinder	(302)			Ī	Ī	Ĭ		Ĭ	Ī											4	at.
ĝ	Cylinder	(307)	٠	•	Ī	• •	Ī	-	•	•				_	i	Ì	Ī	i			4	at.
۵	Cylinder	(997)	•	•	•	•	Ċ	Ī	•	Ī	•		Ī	Ī	_						4	at.
R	Cylinder	(350)			•	•	•	•	•	•	•	•	Ī	Ī	Ĭ						4	at.
۵	Cylinder	(306)	•			Ĭ	Ī	Ī	•	Ī	Ī	Ī	-	_							4	at.
9	Cylinder	(427)	ć	h	·	ro	اما		•	•	•	-	Ī	Ī	-				Ī		4	at.
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LUBRICATION

Crankcase oil should be selected to give the best performance under the climatic and driving conditions in the territory in which the vehicle is driven.

During warm or hot weather, an oil which will provide adequate lubrication under high operating temperatures is required.

During the colder months of the year, an oil which will permit easy starting at the lowest atmospheric temperature likely to be encountered, should be used.

When the crankcase is drained and refilled, the crankcase oil should be selected, not on the basis of the existing temperature at the time of the change, but on the lowest temperature anticipated for the period during which the oil is to be used.

Unless the crankcase oil is selected on the basis of viscosity or fluidity of the anticipated temperature, difficulty in starting will be experienced at each sudden drop in temperature.

SAE VISCOSITY OILS

SAE Viscosity Numbers indicate only the viscosity or

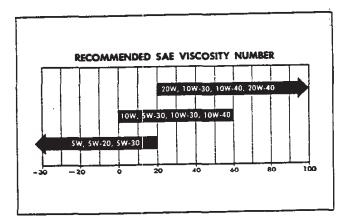
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	12
Steering Gear	12
	12
Battery Care (Energizer) 0-	12
Dual Action Safety Hood Latches 0-	-13
Air Conditioning	13
	-13
	-13

body of the oil, that is, whether an oil is a light or a heavy body oil, and do not consider or include other properties or quality factors.

The lower SAE Viscosity Numbers, such as SAE 5W and SAE 10W which represents the light body oils, are recommended for use during cold weather to provide easy starting and instant lubrication. The higher SAE Viscosity Numbers such as SAE 20 and SAE 20W, which represents heavier body oils, are recommended for use during warm or hot weather to provide improved oil economy and adequate lubrication under high operating temperatures.

Oils are available which are designed to combine the easy starting characteristics of the lower SAE Viscosity Number with the warm weather operating characteristics of the higher SAE Viscosity Number. These are termed "multi-viscosity oils," SAE 5-10W, SAE 5W-20, SAE 10W-20W, and SAE 10W-30.

The following chart will serve as a guide in selecting the proper oil viscosity. In addition to providing proper lubrication, the correct viscosity helps assure good cold and hot starting by reducing friction and thus increasing cranking speed.



- SAE 5W and 5W-20 oils are not recommended for sustained high speed driving.
- SAF 30 oils may be used at temperatures above 60°F.

Types of Oils

In service, crankcase oils may form sludge and varnish and under some conditions, corrosive acids unless protected against oxidation.

To minimize the formation of these harmful products and to assure the use of oil best suited for present day operating conditions, automobile manufacturers have developed a series of sequence tests designed to evaluate the ability of any oil to properly lubricate automobile engines.

It is recommended that only those oils which are certified by their suppliers as meeting or exceeding the maximum severity requirements of these sequence tests (or GM Standard 6041-M) be used in Chevrolet engines. Certified sequence tested oils will be described as such on their containers.

MAINTAINING OIL LEVEL

The oil gauge rod is marked "Full" and "Add Oil." These notations have broad arrows pointing to the level lines. The oil level should be maintained between the two lines, neither going above the "Full" line nor under the "Add Oil" line. DO NOT OVERFILL. After operating vehicle allow a few minutes for oil to return to crankcase before checking oil level.

Check the oil level frequently and add oil when necessary.

ENGINE OIL CHANGE INTERVALS

NOTE: Under prolonged dusty driving conditions, it is recommended that these operations be performed more often.

To insure continuation of best performance, low maintenance cost and long engine life, it is necessary to change the crankcase oil whenever it becomes contaminated with harmful foreign materials. Under normal driving conditions draining the crankcase and refilling with fresh oil every 4 months or every 6000 miles whichever occurs first, is recommended.

It is always advisable to drain the crankcase only after the engine has become thoroughly warmed up or reached normal operating temperature. The benefit of draining is, to a large extent, lost if the crankcase is drained when the engine is cold, as some of the suspended foreign material will cling to the sides of the oil pan and will not drain out readily with the cold, slower moving oil.

CRANKCASE DILUTION

Probably the most serious phase of engine oil deterioration is that of crankcase dilution which is the thinning of the oil by fuel vapor leaking by pistons and rings and mixing with the oil and by condensation of water on the cylinder walls and crankcase.

Leakage of fuel, or fuel vapors, into the oil pan occurs mostly during the "warming up" period when the fuel is not thoroughly vaporized and burned. Water vapor enters the crankcase through normal engine ventilation and through exhaust gas blow-by. When the engine is not completely warmed up, these vapors condense, combine with the condensed fuel and exhaust gases and form acid compounds in the crankcase.

As long as the gases and internal walls of the crankcase are hot enough to keep water vapor from condensing, no harm will result. However, when the engine is run in low temperatures moisture will collect and unite with the gases formed by combustion resulting in an acid formation. The acid thus formed is likely to cause serious etching or pitting which will manifest itself in excessively rapid wear on piston pins, camshaft bearings and other moving parts of the engine, oftentimes causing the owner to blame the car manufacturer or the lubricating oil when in reality the trouble may be traced back to the character of the fuel used, or a condition of the engine such as excessive blowby or improper carburetor adjustment.

Automatic Control Devices to Minimize Crankcase Dilution

All engines are equipped with automatic devices which aid greatly in minimizing the danger of crankcase dilution.

The thermostat, mounted in the cylinder head water outlet, restricts the flow of water to the radiator until a predetermined temperature is reached, thus minimizing the length of time required to reach efficient operating temperature, reducing the time that engine temperatures are conducive to vapor condensation.

A water by-pass is included in the cooling system, utilizing a hole in the front of the cylinder block. This allows a limited circulation of coolant, bypassing the thermostat until thermostat opening temperatures are reached. This system provides a uniform coolant temperature throughout the engine, eliminating localized hot-spots, improving exhaust valve life, provides fast warm-up of lubricating oil and fast temperature rise in the coolant which provides fast heater operation in cold weather.

A thermostatic heat control on the exhaust manifold during the warming up period, automatically directs the hot exhaust gases against the center of the intake manifold, greatly aids in proper vaporization of the fuel.

An automatic choke reduces the danger of raw or unvaporized fuel entering the combustion chamber and leaking into the oil reservoir.

An efficient crankcase ventilating system drives off fuel vapors and aids in the evaporation of the raw fuel and water which may find its way into the oil pan.

CRANKCASE VENTILATION VALVE

VALVE TYPE

Every 12,000 miles or 12 months the valve should be replaced. Connecting hoses, fittings and flame arrestor should be cleaned. At every oil change the system should be tested for proper function and serviced, if necessary.

AIR INJECTION REACTOR SYSTEM (A.I.R.)

The Air Injection Reactor system should have the A.I.R. pump filter serviced and the drive belt inspected for wear and tension every 12 months or 12,000 miles, whichever occurs first. In addition, complete effectiveness of the system, as well as full power and performance, depends upon idle speed, ignition timing, and idle fuel mixture being set according to specification. A quality tune-up which includes these adjustments should be performed periodically to assure normal engine efficiency, operation and performance.

MANIFOLD HEAT CONTROL VALVE

Every 6,000 miles, check valve for freedom of operation. If valve shaft is sticking, free it up with GM Manifold Heat Control Solvent or its equivalent.

OIL FILTER

Change engine oil filter at first engine oil change and every second oil change thereafter.

NOTE: For Vehicles in heavy duty operation involving continuous start-stop or prolonged idling, engine oil should be changed after 2500-3000 miles of operation. The filter should be changed after 5000-6000 miles of operation.

AIR CLEANER

NOTE: Under prolonged dusty driving conditions, it is recommended that these operations be performed more often.

Polyurethane Type-

Every 12,000 miles clean element in solvent, squeeze out solvent, then soak in engine oil and squeeze out excess.

Oil Wetted Paper Element Type-

First 12,000 miles inspect element for dust leaks, holes or other damage. Replace if necessary. If satisfactory, rotate element 180° from originally installed position. Replace at 24,000 miles. Element must not be washed, oiled, tapped or cleaned with an air hose.

If so equipped, replace Bow-Tie filter every 24,000 miles.

FUEL FILTER

Replace filter element located in carburetor inlet every 12 months or 12,000 miles whichever occurs first.

DISTRIBUTOR

4 and 6-Cylinder Engine--Remove distributor cap and rotate lubricator 1/2 turn at 12,000 mile intervals. Replace at 24,000 mile intervals.

8-Cylinder Engine--Change cam lubricator end for end at 12,000 mile intervals. Replace at 24,000 mile intervals.

REAR AXLE AND 3-SPEED 4-SPEED TRANSMISSIONS

The passenger car operates under the most severe lubrication conditions at high speed and requires a hypoid lubricant which will meet this condition.

RECOMMENDED LUBRICANTS

Standard Rear Axles--SAE 90 "Multi-Purpose" gear lubricant.

Positraction Rear Axles--Use special Positraction lubricant.

CAUTION: Straight Mineral Oil gear lubricants must not be used in hypoid rear axles.

Transmissions- -SAE 90 "Multi-Purpose" gear lubricant.

The SAE 90 viscosity grade is recommended for year round use. However, when extremely low temperatures are encountered for protracted periods during the winter months, the SAE 80 viscosity grade may be used.

"Multi-Purpose" Gear Lubricants

Gear lubricants that will satisfactorily lubricate hypoid rear axles have been developed and are commonly referred to as "Multi-Purpose" gear lubricants meeting U.S. Army Ord. Spec. MIL-L-2105B.

These lubricants can also be satisfactorily used in manual transmissions.

CAUTION: With Positraction rear axles use special Positraction lubricant.

"Multi-Purpose" gear lubricants must be manufactured under carefully controlled conditions and the lubricant manufacturer must be responsible for the satisfactory performance of his product. His reputation is the best indication of quality.

Lubricant Additions

The lubricant level in the axle and transmission housings should be checked periodically. (Every 6,000 miles.)

It is recommended that any additions required to bring up the lubricant level be made using the same type lubricant already in the housing.

When checking lubricant level in transmission or rear axle the unit being checked should be at operating temperature. With unit at operating temperature the lubricant should be level with bottom of the filler plug hole. If the lubricant level is checked with the unit cold the lubricant level should be 1/2 inch below the filler plug

Lubricant Changes

The rear axle lubricant does not require changing for the life of the vehicle. If additions are needed, or when refilling the axle after service procedures, use lubricants described above.

Transmission Shift Linkage (Manual and Automatic)

Every 6000 miles or 4 months lubricate shift linkage and on manual transmission floor controls lever contacting faces with water resistant EP chassis lubricant which meets GM Specification 6031M.

Clutch Cross-Shaft

Periodic lubrication of the clutch cross shaft is not required. At 36,000 miles or sooner, if necessary; remove plug, install lube fitting and apply EP CHASSIS LUBRICANT which meets GM Specification GM 6031M.

AUTOMATIC TRANSMISSIONS

NOTE: At first transmission fluid change, it is recommended that the Powerglide and Torque Drive low band be adjusted as specified in Section 7 of this manual.

Powerglide, Torque Drive, and Turbo Hydra-Matic 350

Every 6,000 miles check fluid level on dipstick with engine idling, selector lever in neutral position, parking brake set and transmission at operating temperature. If fluid level is below full mark on dipstick, add small amount of automatic transmission fluid. Recheck fluid level and again add a small amount of fluid if needed to bring level to full mark. DO NOT OVERFILL.

bring level to full mark. DO NOT OVERFILL.

General Motors DEXRON Automatic Transmission Fluid, Part numbers 1050568, 69, 70 which has been especially formulated and tested for use in your automatic transmission is recommended. Other Automatic Transmission Fluids identified with the mark DEXRON Pare also recommended.

Every 24,000 miles (more frequently, depending on severity of service, if vehicle is used to pull trailers, carry full loads during high ambient temperatures, operate in mountainous terrain or operate under other severe conditions) remove fluid from the transmission sump and add 2 quarts* U.S. measure (1 2/3 quarts* Imperial measure) of fresh fluid for Chevrolet and Chevelle; add one and a half (1 1/2) U.S. measure and (1 1/4 quarts Imperial measure) for Chevy II and Camaro. Operate transmission through all ranges and check fluid level as described above. For Turbo Hydra-Matic 350, add 2.5 quarts U.S. measure (2.0 quarts Imperial measure).

It is not necessary to remove the pan because a drain plug is provided.

Turbo Hydra-Matic 400

Lubrication for the Turbo Hydra-Matic 400 will, except for fluid capacity and filter change listed below, follow the recommendations above. After checking transmission fluid level it is important that the dipstick be pushed all the way into the fill tube.

Every 24,000 miles after removing fluid from the transmission sump, approximately 7 1/2 pints U.S. measure (6 pints Imperial measure) of fresh fluid will be required to return level to proper mark on the dipstick.

Every 24,000 miles the transmission sump strainer should be replaced.

*Except if vehicle is equipped with transmission provided in heavy duty service options. If so equipped, drain converter and sump every 24,000 miles and add approximately 9 quarts U.S. Measure (7 1/2 quarts Imperial Measure) of fresh fluid for Chevrolet and Chevelle and 7 1/2 quarts U.S. Measure (6 1/4 quarts Imperial Measure) for Nova.

CHASSIS

CHASSIS LUBRICATION

For chassis lubrication, consult the lubrication chart. It shows the points to be lubricated and how often the lubricant should be applied.

The term "chassis lubricant" as used in this manual, describes a water resistant EP chassis lubricant which meets GM Specification GM 6031M designed for application by commercial pressure gun equipment.

FRONT WHEEL BEARINGS

It is necessary to remove the wheel and hub assembly to lubricate the bearings. The bearing assemblies should be cleaned before repacking with lubricant. Do not pack the hub between the inner and outer bearing assemblies or the hub caps, as this excessive lubrication results in the lubricant working out into the brake drums and linings.

Front wheels of all passenger car models are equipped with tapered roller bearings and should be packed every 24,000 miles with a high melting point water resistant front wheel bearing lubricant which meets GM Specification GM 6031M whenever wheel and hub are removed.

CAUTION: "Long fibre" or "viscous" type lubricant should not be used. Do not mix wheel bearing lubricants. Be sure to thoroughly clean bearings and hubs of all old lubricant before repacking.

The proper adjustment of front wheel bearings is one of the important service operations that has a definite bearing on safety. A car with improperly adjusted front wheel bearings lacks steering stability, has a tendency to wander or shimmy and may have increased tire wear. The adjustment of these bearings is very critical. The procedure is covered in Section 3 of this manual under Front Wheel Bearings—Adjust.

BRAKE MASTER CYLINDER

Check level every 6,000 miles and maintain 1/4" below lowest edge of each filler opening with GM Hydraulic Brake Fluid Supreme No. 11.

PARKING BRAKE

Every 6,000 miles, apply water resistant lubricant which meets GM Specification GM 6031M to parking brake cable, cable guides and at all operating links and levers.

STEERING GEAR

Manual

Check lubricant level every 36,000 miles. If required, add EP Chassis Lubricant which meets GM Specification GM 6031M. (See Section 9)

Power Steering Pump

On models equipped with power steering gear, check fluid at operating temperature in pump reservoir. Add GM Power Steering Fluid, or, if this is not available, use Dexron ® Automatic Transmission Fluid to bring level to full mark on dip stick.

ELECTRICAL

BATTERY CARE (ENERGIZER)

Every 6000 miles—Clean terminals and oil felt washer. Check the fluid level in each cell of your battery regularly. The electrolyte level indicator in the cap of one cell will glow if the fluid level is low. In this case each cell should be checked. Keep filled with distilled water to the bottom of the split ring in the vent tube.

DUAL ACTION SAFETY HOOD LATCHES

Every 12,000 miles or 12 months, whichever occurs first, apply Lubriplate or its equivalent to the hood catch and lock plate.

AIR CONDITIONING

Every 6,000 miles check sight glass under the hood, after the system has been in operation for several minutes. Sight glass should be clear but may, during milder weather, show traces of bubbles. Foam or dirt indicate a leak which should be repaired immediately.

BODY LUBRICATION

See Body Service Manual for Body Lubrication. (Except Corvette)

BODY LUBRICATION PCHNTS (CORVETTE)

Lubricate the following items when possible.

Hood Latch Mechanism and Hinges--Apply light engine oil to pivot points. Don't oil lock pins or catch plates.

Rear Compartment Lid Release and Hinges--Apply light engine oil.

Side Door Hinge Pins -- Apply light engine oil.

Door Lock Rotor and Strike Plate--Apply light engine oil or stainless stick lubricant.

Lock Cylinders -- Lubricate with powdered graphite.

Window Regulators and Controls and Door Lock Remote Link -- Apply light engine oil.

Gas Tank Filler Cap Hinge-- Apply light engine oil. Weatherstrips and Rubber Bumpers -- Coat lightly with a rubber lubricant.

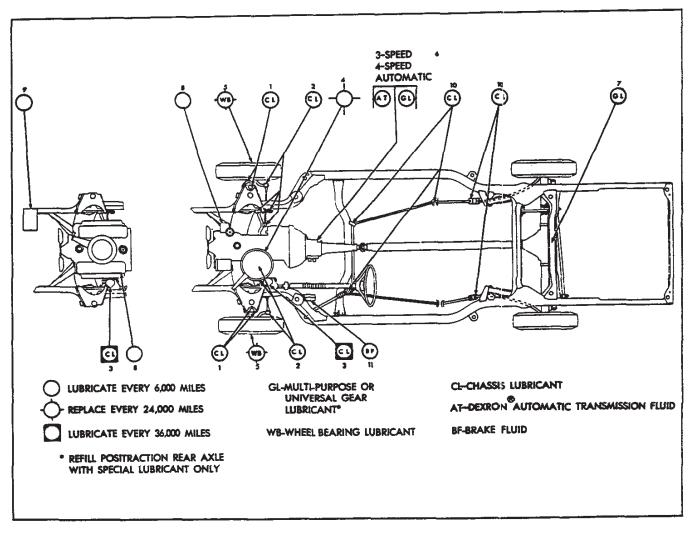


Fig. 10-Lubrication Diagram-Chevrolet

- 1. Front Suspension
- 2. Steering Linkage 3. Steering Gear
- 4. Air Cleaner . 5, Front Wheel Bearings
- 6. Transmission
- 7. Rear Axle 8. Oil Filter

- 9. Battery
- 10. Parking Brake
- 11. Brake Master Cylinder

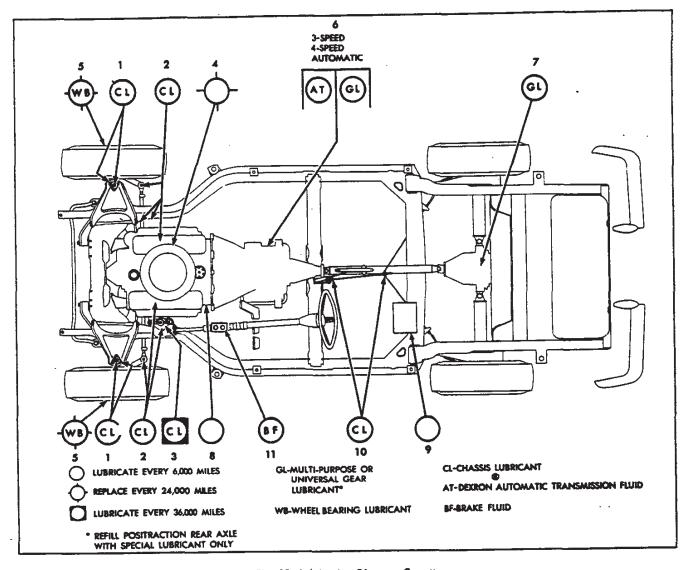


Fig. 13—Lubrication Diagram—Corvette

- Front Suspension
 Steering Linkage
 Steering Gear

- 4. Air Cleaner 5. Front Wheel Bearings
- 6. Transmission 7. Rear Axle 8. Oil Filter

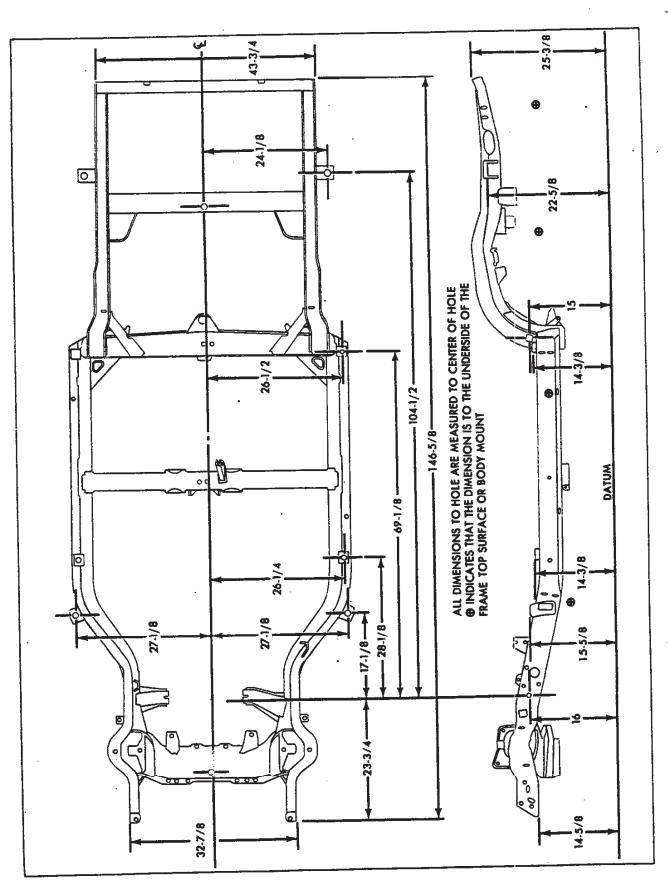


Fig. 4-Frame Dimension-Corvette

Company of the Compan

BODY MOUNTS

The various type of body mounts and their application

are shown in Figures..5 and 6. Torque specifications are listed in the following chart.

Model	Mount	Torque
Chevrolet	Radiator Support to Frame #1 thru #7	35 ft. lbs. 35 ft. lbs.
Chevelle	Radiator Support to Frame #1 thru #7	35 ft. lbs. 35 ft. lbs
Camaro Chevy II	#1 #2 and #3	35 ft. lbs 80 ft. lbs
Corvette	All	45 ft. lbs

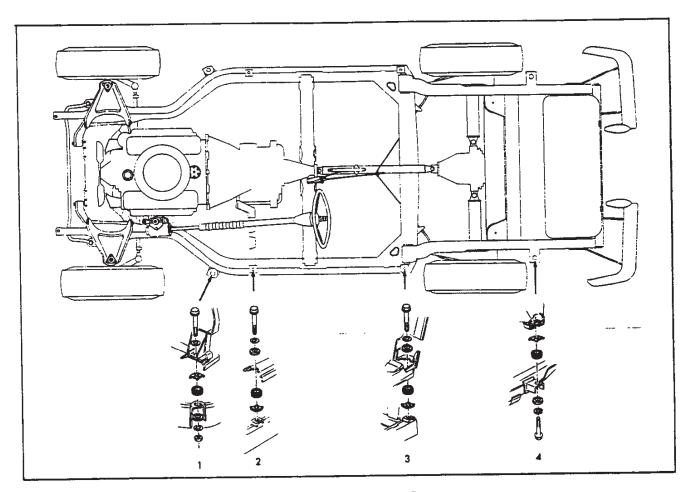


Fig. 5-Body Mount Application-Corvette

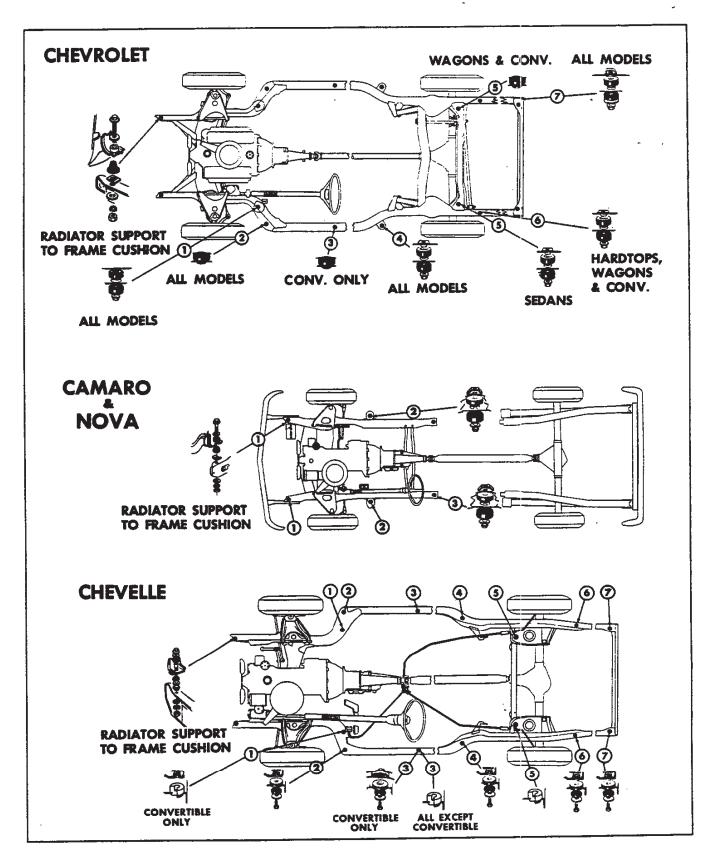


Fig. 6-Body Mount Application-Chevrolet, Chevelle, Camaro and Nova

SECTION 1B CORVETTE BODY

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GENERAL DESCRIPTION

A structural network of steel makes up the frame of the Corvette body (See Figure 1). Combined with fiber glass reinforced plastic body panels, the steel plastic unit displays properties of increased torsional rigidity and greater beaming strength.

There are two body styles available—the regular convertible with a folding top or removable hardtop, and the new coupe series that features removable roof panels. On convertible model base equipment, either top is standard and both are optional.

MAINTENANCE AND REPLACEMENTS

FRONT END

ADJUSTMENTS

(Refer to Figure 2)

Adjustments should be made in order—hood position first, followed by catch adjustments.

Hood

The position of the hood in relation to the hood body opening and fender surfaces is determined by the position of the hinges and position and adjustment of catch and bumpers.

The fore and aft adjustment of the hood is performed by

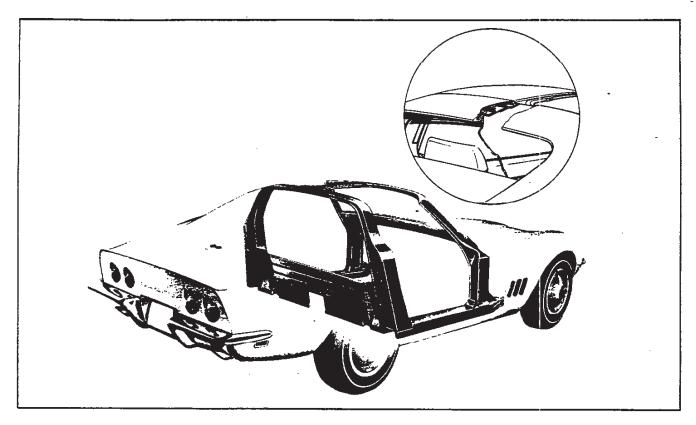


Fig. 1-Steel Reinforcing Members

loosening the hinge retaining bolts (lower) and moving the hood to the limit of slotted holes in hinge strap.

The upper surface of hood may be brought flush with adjacent surfaces by shimming under hinges and adjusting bumper screw and catch bolt engagement. Figure 3 indicates specified spacing.

Entrance of catch bolt into the plate may be adjusted by loosening two (2) catch bolt mounting screws to allow movement of bolt assembly.

Synchronization of catch release may be made by adjusting the cable retainer located at left hand catch bolt assembly.

HOOD ASSEMBLY

Removal

- If hood is to be reinstalled, scribe a line around hood hinge upper strap as shown in Figure 4.
- With aid of helper to support hood, remove screws that retain hinge straps and support assembly to hood. If hinges are removed from vehicle, note number of shims under each hinge.

Installation

In replacing original hood, align hinge with scribe marks made on removal, and install retaining screws removed from hinges and support.

If adjustment is required, proceed as outlined in this section under Adjustments—Hood—Hood Catch.

HOOD PROP

Retention Feature

When extended under hood service operations are anticipated, the hood, prop track and slide should be secured by placing a 1/4 inch bolt and nut through the existing hole. This will prevent accidental closing of the hood.

FRONT EMBLEM

Front emblem including flags, numbers, and molding inserts, are retained by special nuts which may be reached by raising hood.

FENDER SCRIPT

Above the front fender louvers the script "Stingray" will be fastened with adhesive.

COWL AREA TRIM

Figure 5 illustrates the mounting and location of instrument panel pads and side trim panels.

Removal

The right-hand dash pad, instrument panel pad and assemblies are removed by:

- 1. Remove two mounting screws on the outboard flange.
- Remove two screws at inner flange of center cluster panel.

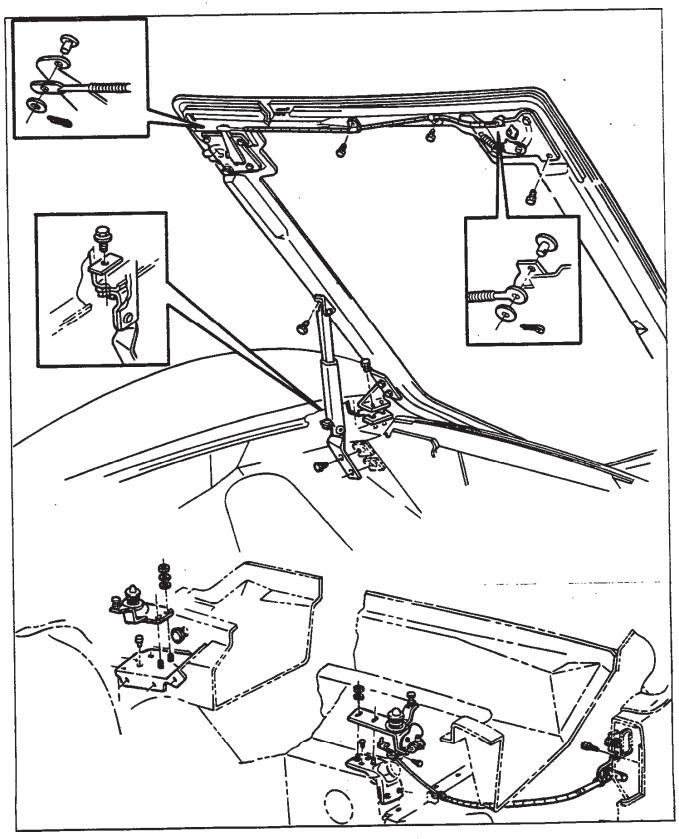


Fig. 2—Hood Hinge and Catch

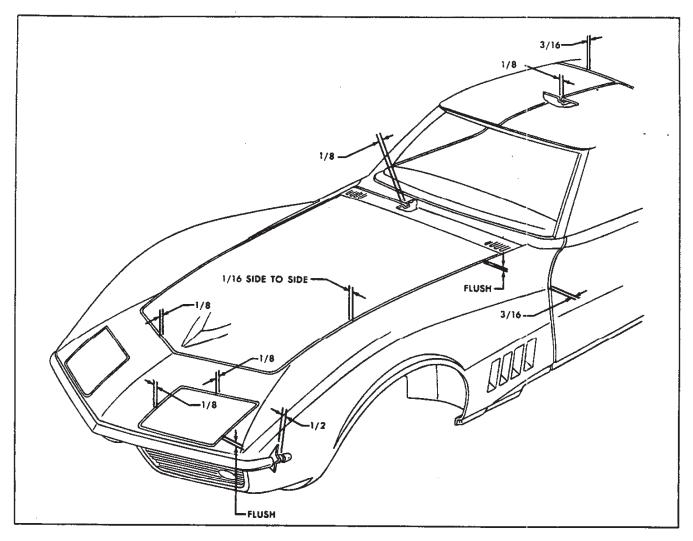


Fig. 3—Hood Spacing

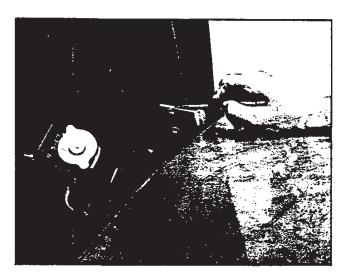


Fig. 4-Scribing Line Around Hood Hinge

- Pull pad outward to release special plastic retaining clips along top of panel.
- Pull pad upward to release spring clip at top of trim side panel.

Cowl ventilator and kick panel is removed by:

- Loosen four (4) screws securing sill plate enough to release force on kick panel.
- 2. Remove one (1) screw at center of kick panel.
- 3. Lift out panel with a force in the rearward direction.
- 4. For installation, follow above steps in reverse order. Side trim panels (left and right) can now be lifted out by pulling downward to release spring clip at front console assembly, after removing screw.

Console Assembly

(Refer to Figure 6)

Because of overlap design, it is necessary that the rear console assembly be first removed or sufficiently loosened before the front console assembly can be removed. Steps for removing the console assemblies are in the following sequence:

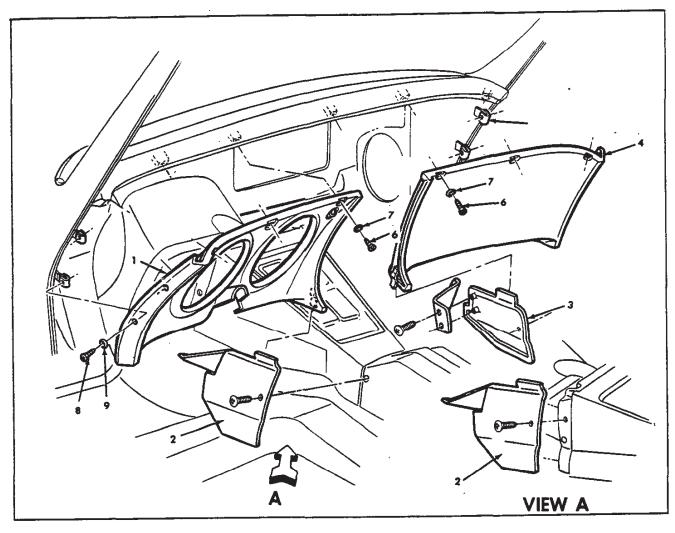


Fig. 5-Cowl Area Trim

- 1. Instrument Panel Pad L. H.
- 2. Side Trim Panel L. H. 3. Side Trim Panel R. H.
- 4. Dash Panel Pad R. H. S. "J" Nut

- 7. Special Washer
- 8. Screw
- 9. Special Washer

- 1. Disconnect battery ground cable.
- 2. Open storage compartment, glove box, and battery lids.
 - a. Remove storage compartment interior.
 - b. Remove lid hinge screws [total of nine, three (3) per lid]
 - c. Remove eight (8) screws on periphery of compartment lid trim plate.
 - d. Remove trim plate, lids and glove compartment interior as an assembly.
- 3. Remove bolt at rear portion of console. Access bolt through opening created in step 2. Remove four (4) screws [two (2) per side] on side of rear portion of
- 4. Lift console. Disconnect electric window switch connectors. Continue raising console while moving it rearward to allow parking brake handle seal to slide

- out of slot. Remove rear portion of console from vehicle.
- 5. Service parking brake mechanism as outlined in Section 5 of this Manual or replace concerned power window switch(s).
- 6. Having first disassembled heater and side vent controls, shift knob assembly, boot assembly, and trim plate, remove front console assembly by carefully pulling rezrward and upward (fig. 7).
- 7. Reverse steps 1-6 on installation, making sure seal is properly installed in its slot before finalizing the installation.

Under Dash Brace Rods (Figure 8)

Convertible style bodies have added reinforcements beneath the dash; two on the right and three on the left

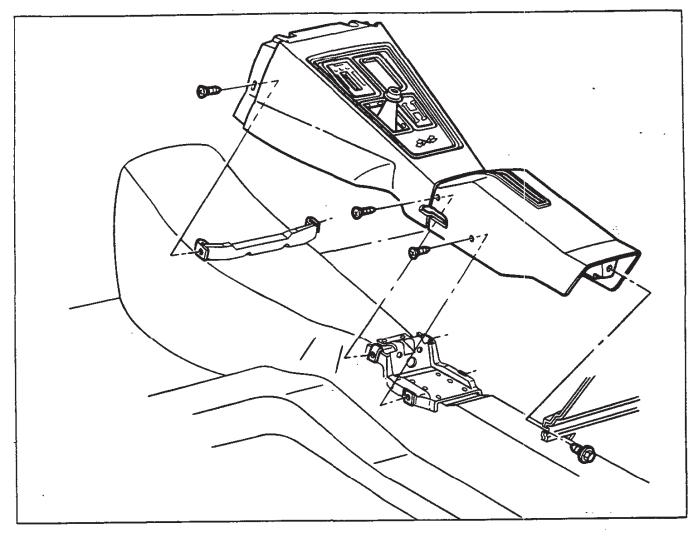


Fig. 6—Front and Rear Console Assemblies

side. The brace rods are bolted into place from the cowl area towards the center of the vehicle.

If the heater core or radio are to be removed, the right-hand under dash braces must be removed first. See Figure 8 for assembly sequence.

REAR VIEW MIRROR

Outside

Removal

The outside rear view mirror is removed from the door by removing the allen head set screw located on the outboard side of the mirror support. (See Figure 9). Mounting assembly is removed by removing two screws to body (fig. 9).

Installation

Mirror may be installed by following removal procedures in reverse order.

Inside

Installation of inside mirror is illustrated in Figure 10.

Tension of mirror stud is increased by tightening adjusting screw.

SUN VISOR

Attachment of sun visor assembly to windshield header is made as shown in Figure 10. Turning of adjusting screw clockwise increases friction.

WINDSHIELD

The windshield installation incorporates a synthetic self-curing rubber adhesive caulking compound that adheres to both glass and pinchweld frame in place of the rubber channel that was formerly used. Applied to the glass while in a soft state, the material begins to cure soon after exposure to air. It is therefore essential that installation of glass into body opening quickly follow application of material to glass. It is recommended to use the materials provided in a kit from your authorized dealer which consists of:

- a. One tube of Adhesive Caulking Material.
- b. Pressure Sensitive Adhesive Sealing Strip.
- c. Steel Music Wire (.020" diameter).
- d. Adhesive Caulking Primer.

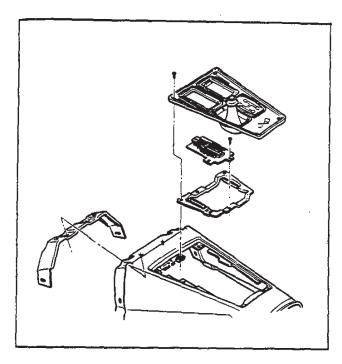


Fig. 7-Front Console Assembly

Additional materials required:

- a. Caulking gun
- b. Two pieces of wood for wire handles.
- c. Black weatherstrip adhesive.
- d. Rubber glass spacers.

Removal

(Refer to Figure 11 for parts identification.)

- 1. Set windshield wiper access door in open position.
- 2. Remove windshield wiper arms.
- Remove weatherstrips (L and R) from frame by removing mounting screw, prying from channel, and carefully pulling downward.
- Remove lower corner reveal moldings (L and R) by removing two (2) screws located at end flanges to fender, and carefully prying out from retaining clips.
- Remove side retainer moldings (L and R) by removing three (3) screws to frame.
- Remove side reveal molding (L and R) by removing one (1) remaining screw.
- 7. After indexing molding and header rail with tape to insure proper reinstallation, remove upper reveal molding by carefully prying out at corner with screw driver and then pulling out remainder by hand.
- 8. Secure one end of steel music wire to piece of wood for handle. Insert other end through caulking material at lower corner of windshield; then secure end of wire to another piece of wood (fig. 12).
- With the aid of helper, carefully cut through caulking material (using a sawing motion) with the steel wire; up side of windshield, across top, down opposite side, and across bottom.
- 10. Remove old glass from windshield opening.
- Using a sharp scraper or wood chisel, remove achesive caulking material from pinchweld flange.

NOTE: It is not necessary to clean off all the old caulking material completely from wind-shield frame; however, there should not be any loose pieces of caulking material left in the opening.

- Check all upper reveal molding retaining clips for damage (4 clip assemblies required). Replace those that are bent or distorted.
- 13. Using weatherstrip adhesive, cement rubber spacers at bottom, sides, and top of window opening. The step-type spacers are used at bottom, the flat type are used at the top, and at the sides, window opening as shown in Figure 13.
- 14. Using suction cup holders, position replacement glass in body opening. Carefully check relationship of glass to body pinchweld completely around opening. The overlap of glass to body pinchweld and retaining flanges should be equal with a minimum overlap of 3/16". Where necessary, position shims under the lower spacers to obtain required overlap of glass to body upper and lower flanges.
- 15. After proper glass to pinchweld relationship has been attained, mark position with grease pencil on glass and windshield pillar.
- Remove glass from body opening and place on protected surface,
- 17. Clean inside edge surface of glass so that glass is free of any foreign material (oil, grease, etc.). By first peeling off paper backing, apply pressure sensitive sealing strip approximately 1/4 inch from edge of inside surface of glass completely around glass. Then apply a film of silane primer to inside edge surface completely around glass; also apply silane primer to sealing surface of windshield frame.
- 18. Cut off painted portion of cartridge nozzle along edge of paint line.
- Mix adhesive caulking material and accelerator thoroughly according to directions on container.

NOTE: Once caulking material is mixed, there will be approximately 35 minutes of working time with the material. Subsequent steps should be performed immediately after caulking material is mixed.

- 20. Place caulking material in cartridge.
- 21. Carefully apply a smooth continuous bead of caulking material on inside surface of glass next to edge completely around glass (fig. 14). Caulking material should be approximately 1/4 inch wide at the base and form a pyramid 3/8 inch high. If during application the pyramid collapses, wait about 2-3 minutes for material to set up. If an air bubble is encountered in material, back up the applicator and apply sufficient material to fill void and to dispense the bubble before continuing.
- 22. The reveal molding clips are self-sealing and do not require sealing before installing glass.
- 23. With aid of helper, lift glass and carefully position glass on spacers, matching up marks on glass and frame.
- 24. Press glass lightly to set caulking material to windshield opening flanges. Paddle material where necessary to insure proper seal.
- 25. Water test windshield immediately using a cold

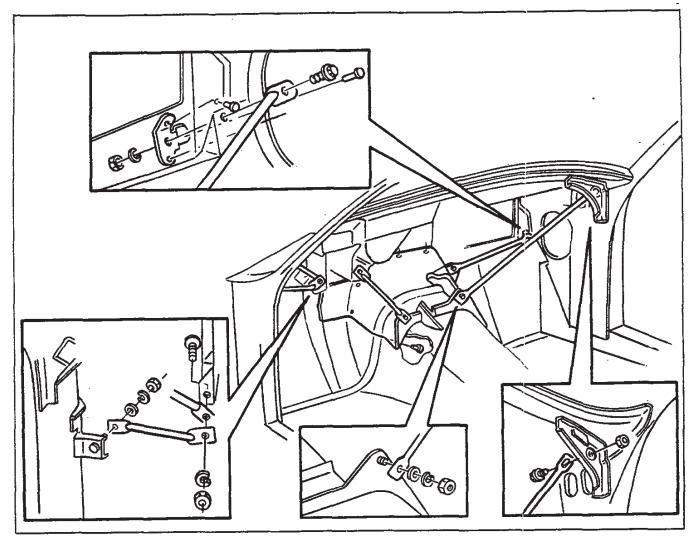


Fig. 8-Under Dash Braces

water spray. If any water leaks are encountered, use flat bladed screw driver or stick, and paddle caulking material into leak point to correct leak. Correction of leak is usually more effectively performed by paddling material from inside the body.

CAUTION: DO NOT RUN A HEAVY STREAM OF WATER DIRECTLY ON CAULKING MATERIAL WHILE THE MATERIAL IS STILL SOFT.

26. Install previously removed hardware and trim in the following order: upper reveal molding, side reveal molding, side retainer molding, lower corner reveal molding, and windshield pillar weatherstrip.

COWL VENTILATOR ASSEMBLY

The following procedure includes either the left or right-hand side. Refer to Figure 15.

Adjustment

Turn plastic adjustment link, located at middle of control cable underneath dash panel, in order to attain desired adjustment. Ventilator valve should be completely closed when knob is at forward position.

Removal

- 1. Remove cowl kick panel.
- 2. Disengage control cable fastened to bracket by screw.
- 3. Remove knob assembly retaining screw.
- 4. With console trim plate lifted out, remove nut retaining guide.
- Remove screw retaining cable at inside front of console assembly.
- 6. Disassemble control mechanism.
- Remove cable assembly by disconnecting at adjusting link and pulling through.

Installation

Install vent assembly following removal procedure in

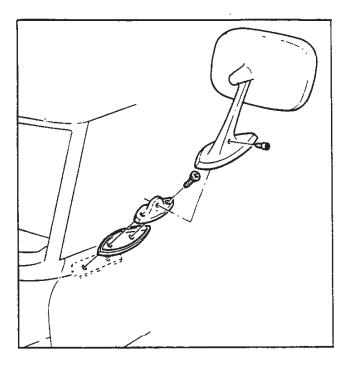


Fig. 9—Outside Rearview Mirror

reverse order. Check operation and adjust accordingly.

DOORS

ADJUSTMENTS

Door Lock Striker

The door lock striker consists of a single metal bolt and washer assembly that is threaded into a tapped, floating cage plate located in the body lock pillar. With this design, the door is secured in the closed position when the door lock fork-bolt snaps over and engages the striker bolt.

- To adjust striker up or down, or in or out, loosen striker bolt and shift striker as required, and then tighten striker.
- 2. To determine if striker fore or aft adjustment is required, proceed as follows:
 - a. Make certain door is properly aligned.
 - Apply modeling clay or body caulking compound to lock bolt opening as shown in Figure 16.
 - c. Close door only as far as necessary for striker bolt to form an impression as shown in Figure 16.

CAUTION: DO NOT CLOSE DOOR COM-PLETELY. COMPLETE DOOR CLOSING WILL MAKE CLAY REMOVAL VERY DIFFICULT.

d. Measure striker impression as follows:

Striker head should be <u>centered</u> fore and aft as shown; however, some tolerances are allowed. In this alignment, it is important that minimum dimensions as outlined in Figure 16 be strictly maintained. The following spacers are available

as service parts and can be used individually or in combination to achieve the specified alignment:

5/64" Spacer

5/32" Spacer

1/4" Spacer

5/16" Spacer

If check indicates need for emergency spacers, proceed as follows:

- Mark position of striker on body lock pillar using a pencil.
- Insert a 5/16" wrench into hex-head fitting in head of striker bolt and remove striker.
- To install, reverse removal procedure. Make certain striker is positioned within pencil mark.

IMPORTANT: Whenever a door has been removed and reinstalled or realigned, the door should not be closed completely until a visual check is made to determine if lock fork-bolt is correctly engaging with striker.

DOOR WINDOW ADJUSTMENT (Figure 17)

In order to perform any of the adjustments listed below, the door trim panel must be removed.

Window Tilted

 Loosen two bolts (A) and adjust by rotating glass until a constant distance is gained between front edge of glass and the windshield pillar. Retighten bolts A.

Window Rolls Up Too Far

 Loosen front and rear stop screws (B). Roll glass up until it properly seats in roof weather strip. Move front and rear stops until they contact window rollers. Retighten screws (B).

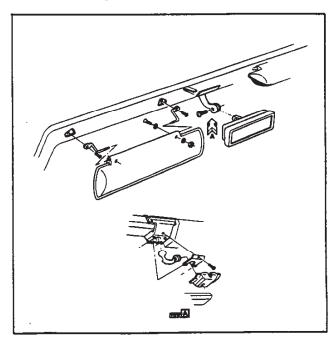


Fig. 10-Sun Visor and Inside Rearview Mirror

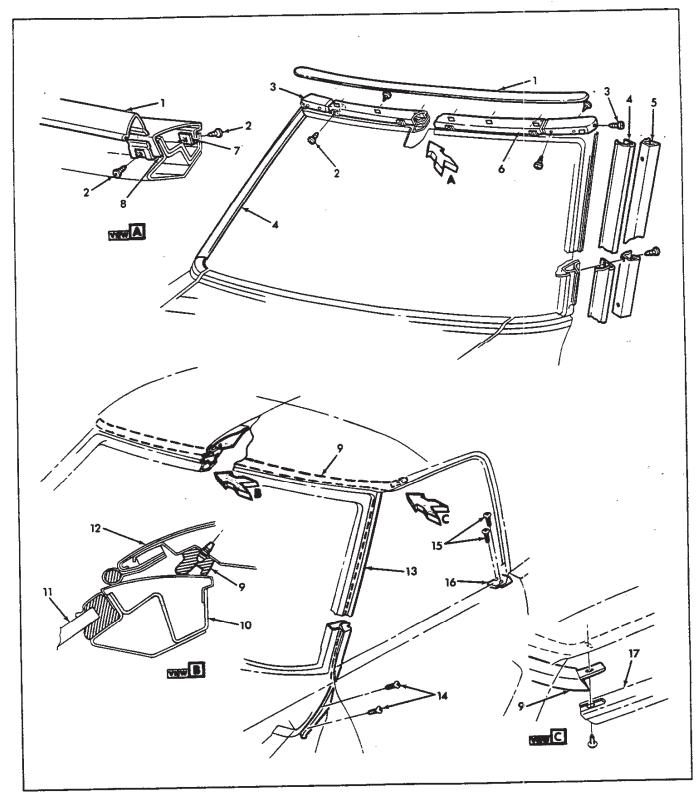


Fig. 11—Windshield Moldings and Weatherstrips

- Header Molding
 Screw
 Header Corner
 Reveal Molding
- Retainer Molding
 Upper Retainer Molding
 Nut

- Clip
 Front Weatherstrip
 Windshield Header
 Assembly

- Windshield Glass
 Folding Top Assembly
 Windshield Pillar Weatherstrip

- 14. Screw 15. Screw 16. Weatherstrip 17. Front Rail Weatherstrip

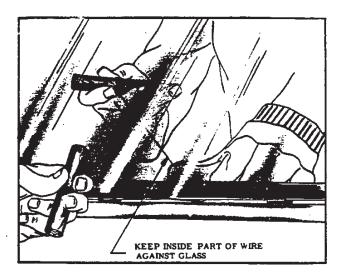


Fig. 12—Removing Old Glass From Opening

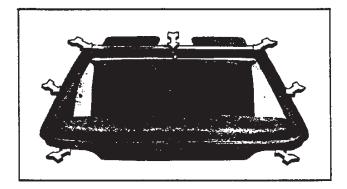


Fig. 13—Windshield Rubber Spacers

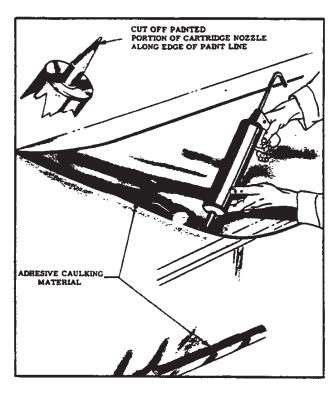


Fig. 14-Applying Caulking Material to Glass

Gap Between Window Forward Edge and Windshield Pillar Too Large or Small

 Loosen three bolts (C) and nut (F). Move glass towards windshield pillar weather strip until it properly seats in the stripping. Retighten bolts (C) and nut (F).

Glass Too Far Outboard or Inboard

Loosen bolts (D & E) and nuts (F). Back off adjusting screws (G). Move top edge of glass inboard

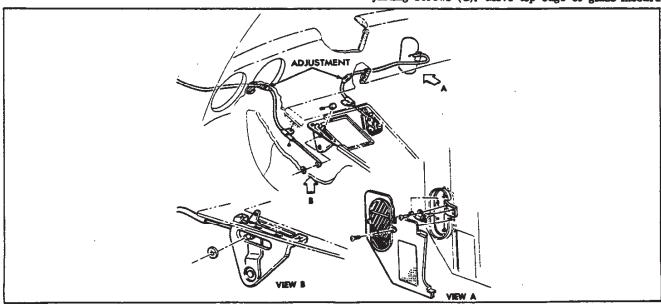


Fig. 15-Cowl Ventilator and Controls

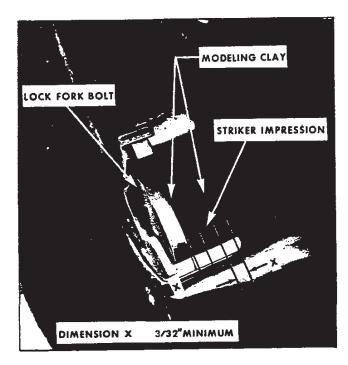


Fig. 16-Checking Adjustment of Striker

until it is properly seated against roof rail weatherstrip. Tighten bolts (D). Move felt weatherstrip against window. Tighten bolts (E). Turn adjusting screws (G) so that the inner nylon pads are in light contact with wedges. Tighten nuts (F).

Window Rolls Down Too Far

 Loosen screw (H) and roll glass down until top edge is flush with outer panel. Move stop to contact window roller. Retighten screw (H).

If a complete door window adjustment is needed, fully adjust window by following all the steps given above in the order given.

Door Hinges

(Refer to Figure 18)

The position of the door assembly in the body opening is determined by the striker position previously described, and the position of the door on the hinge rear straps. The position of the door is adjusted by sliding the door fore and aft to the limit of the slotted holes in hinge pillar; in and out adjustment is done by installation and removal of shims located between hinge pillar and front straps of hinges; up and down position is determined by adjustment of rear hinge straps in slots of inner door panel. To adjust door, proceed as follows:

- 1. Remove door trim panel as outlined in this section.
- Remove lock striker bolt after first scribing line on lock pillar surface following circular flange. This enables proper installation position.
- For up-and-down adjustment, remove hinge cover (2 screws) for access to upper hinge retaining

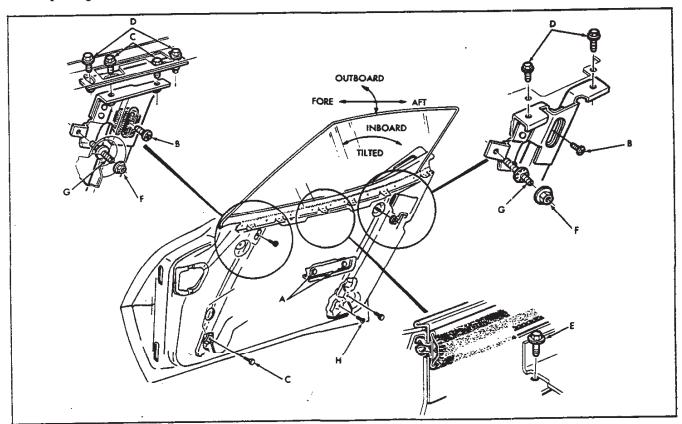


Fig. 17-Door Glass Adjustments

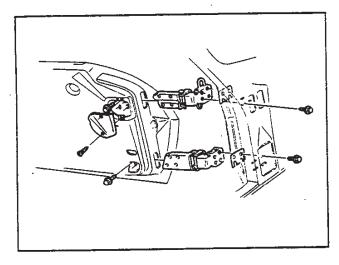


Fig. 18-Side Door Hinges

- 4. For in-and-out, and fore-and-aft adjustment, it is necessary to first remove instrument panel (left door only), right dash pad (right door), cowl kick panel, air inlet duct, and radio speaker, in order to gain access to hinge retaining screws.
- Adjust door as required. (Do not allow doors to hang on one hinge without support.)
- Install previously removed striker assembly, trim pads and panels and lubricate door hinges with lubriplate or equivalent.

NOTE: After performing any door adjustment, the window and lock pillar should be checked for alignment and adjusted as necessary. Do not slam door after adjustment without first checking the door lock and striker engagement. An adjustment may be necessary.

TRIM PANEL AND INSIDE HANDLES

(Refer to Figure 19)

 Using Tool J-7797, remove clips retaining window crank and lock control as shown in Figure 20.

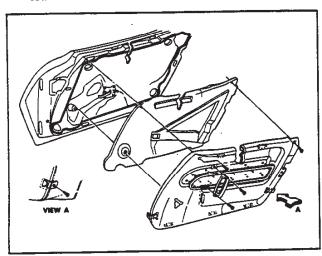


Fig. 19-Door Trim Panel Assembly

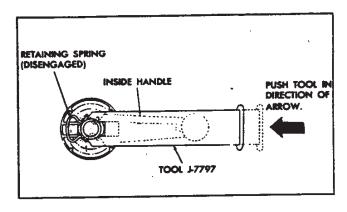


Fig. 20-Removing Window Crank With J-7797

- Remove four (4) screws securing trim panel located at inside corners of inner door panels.
- Remove trim panel by carefully prying out at plastic fastener clips located around perimeter of panel.
- Remove door lock handle by removing one (1) screw and sliding handle forward (fig. 21).
- Remove formed plastic cover by peeling along edge at adhesive bead.
- For installation follow above steps in reverse order making sure trim panel is properly aligned.

DOOR LOCK AND REMOTE CONTROLS

For parts identification, refer to Figure 21.

Removal

- 1. Raise window fully up.
- 2. Remove door trim panel as outlined in this section.
- Disengage upper control rod assembly by removing, first, plastic guide clip, releasing carburetor type clips at both ends, and removing rod through access hole.
- Disengage lock control rods by releasing clips at both ends and lifting outward.
- 5. Remove remote control assembly by removing four (4) screws to inner door panel.
- Remove "crank link" (intermediate pivot) by removing two (2) screws to inner panel.
- 7. Remove door lock by removing three (3) screws and lifting assembly out through access hole.

Installation

For installation, follow preceding steps in reverse order. After assembly of lock mechanism, adjust linkage for preper operation, by removing clip and turning threaded rods. All components should be lubricated before installation.

WEATHERSTRIP

Figure 22 illustrates weatherstrip mounting location on door. When installing new weatherstrip, all dirt, loose paint and old cement must be removed to ensure a good bond. Use only high quality cement designated by the manufacturer as being suitable for weatherstrip application.

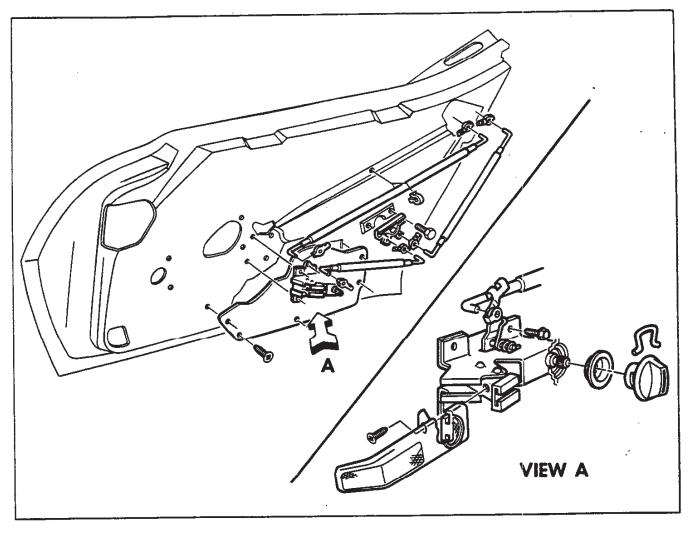


Fig. 21-Door Lock and Remote Control

WINDOW OUTER SEAL ASSEMBLY (Fig. 23)

- 1. Lower window all the way down.
- 2. Remove trim panel.
- 3. Remove two (2) screws one located at each end of seal (fig. 23).
- 4. Carefully pry out at six (6) retaining clips.
- 5. Lift seal assembly outward and upward.
- For installation, secure clips and install the two screws.

WINDOW ANTI-RATTLE (Fig. 23)

- 1. Lower window
- 2. Remove trim panel
- 3. Remove hex head screw
- 4. Fish anti rattle through access
- 5. Install anti-rattle through access. Adjust, install trim.

WINDOW GLASS

Removal

1. Remove door trim panel as outlined in this section.

- Remove window outer seal assembly as outlined in this section.
- Position window all the way up to line up two (2) sash screws through access holes.
- Remove two (2) sash screws on horizontal guide channel while holding mit with other hand (fig. 24).
- Disengage stop by removing one (1) Phillips head screw at top of channel assembly.
- Adjust front and rear channel assemblies to extreme outboard position to allow ample clearance for window removal.
- Carefully pull window upward making certain to clear roller assemblies through opening in inner door panel.

Installation

If replacement glass is necessary, disassemble two (2) pads and fasteners, and frame assembly by removing three (3) mounting bolts through glass (fig. 25). Mount frame assembly and pads onto new glass before installation into door.

The following steps are necessary for installation:

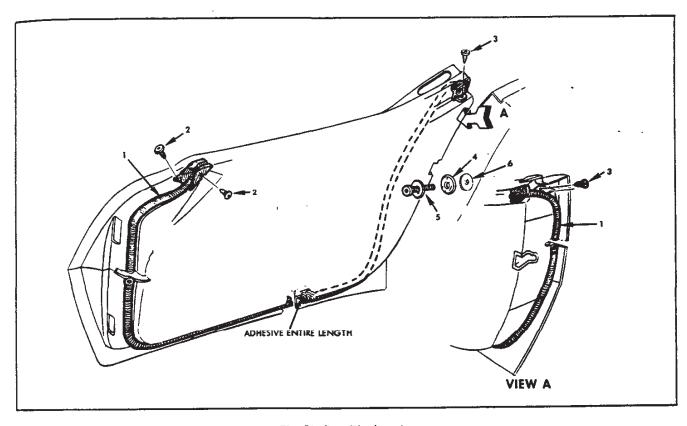


Fig. 22-Door Weatherstrip

- Weatherstrip
 Screw
- Screw
 Spacer
- 5. Striker 6. Lock Pillar

- Insert glass in door pocket with convex curvature towards outside of vehicle.
- Install and tighten (2) sash bolt and nut assemblies through horizontal guide channel and glass frame.
- Adjust front and rear channels to proper in and out position.
- 4. Install inner window seal, and door trim panel.

GLASS RUN CHANNELS

Removal

For parts identification, refer to Figure 26. Removal of either front or rear channel involves the following steps.

- Remove door trim assembly as outlined in this section.
- Remove window glass assembly as outlined in this section.
- Remove retaining screw at lower end of channel and two (2) screws retaining channel to top surface of door inner panel.
- Remove two (2) screws retaining stationary horizontal guide channel.
- 5. Remove nut from adjusting stud.
- Adjust stud to extreme clockwise position to allow proper removal clearance.
- Carefully lift channel through upper slot as shown in Figure 27 making certain to clear opening.

Installation

- Position run channel in door and install retaining bolts loosely.
- 2. Install window glass as outlined in this section.
- Make necessary adjustments to channel as outlined under Doors - Adjustments - Door Windows. Replace door trim panel.

WINDOW REGULATOR-MANUAL

For parts identifications refer to Figure 28.

Removal

- 1. Remove trim panel as outlined in this section.
- 2. Position window all the way up.
- Remove two (2) sash bolt and nut assemblies retaining window glass.
- Remove two (2) screws securing stationary horizontal channel.
- Remove window crank housing by removing three
 screws.
- 6. Remove crank shaft, pin and washer spring.
- Remove two (2) screws located adjacent to spring opening retaining regulator.
- 8. Remove lower bolt securing front glass channel.
- Remove nut securing adjusting stud, and adjust front channel outward to provide adequate clearance for window regulator removal.
- 10. Collapse regulator linkage to elongated position.

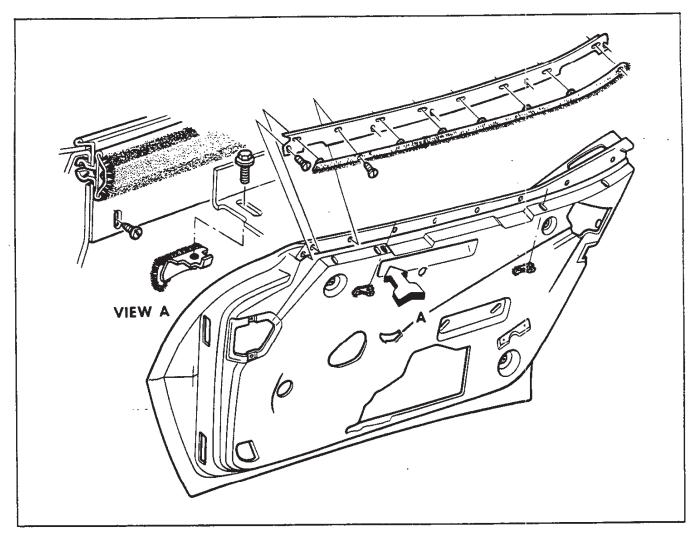


Fig. 23-Window Glass Seals and Molding



Fig. 24—Removing Sash Screws

11. While depressing front channel outward, slide regulator assembly forward and rearward to remove through access hole as shown in Figure 29.

Installation

Regulator may be installed by following removal procedure in reverse order. Always lubricate all guide rails and rollers when regulator is disassembled. Test regulator thoroughly before installing door trim panel. Adjust window as outlined in this section.

WINDOW REGULATOR-POWER

In the case that window will not operate, check electrical connections first. Figure 30 illustrates location of junctions, switches, and circuit breaker.

Removal

Perform Steps 1 through 12 following Window Regulator—Manual Removal. Note that electrical connectors must be removed from motor before performing any operation on regulator. Figure 30 illustrates location of regulator on door and wiring.

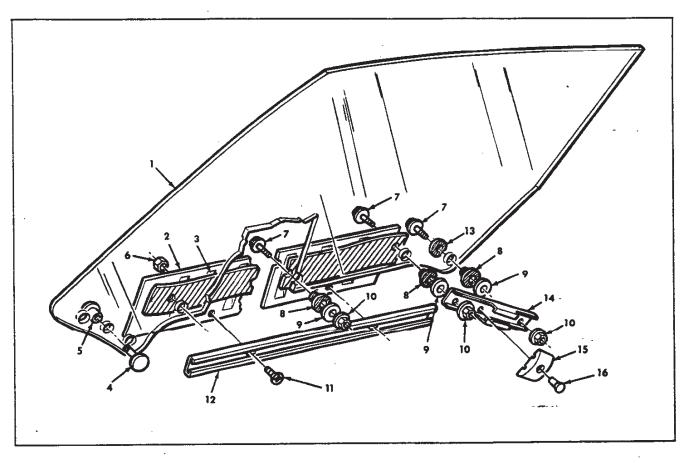


Fig. 25—Glass and Frame Assembly

	•	
1. Glass	5. Pod	9. Washe
2. Frame	6. Nut	10. Nut
3. Filler	7, Bolt	11. Screw
4. Fastener	8. Bushing	12. Chann

Disassembly

NOTE: Do not attempt to remove motor from regulator until the following operations are performed. Arm is spring-loaded and should be locked in position when motor is removed. Refer to Figure 31.

- 1. Place regulator assembly in vise.
- Using jumper leads to 12 volt DC source, operate motor until semi-circular hole in sector gear centers over one of two weld nuts on mounting plate.
- 3. Screw a 1/4" 20 x 1" bolt into weld nut so that end passes through hole in sector gear. It may be necessary to enlarge hole in gear slightly with file or drill. Install nut on bolt to lock arm position.

Installation

Be sure lock bolt is removed if regulator has been disassembled,

- Install lubricated regulator assembly and guide rails in reverse order of removal.
- 2. Install window as outlined in this section.
- 3. Making sure connectors are securely installed on motor, test operation of window thoroughly.
- Install door trim panel and control handles as outlined in this section.

OUTER HANDLE AND LOCK CYLINDER (Fig. 32)

13. Washer 14. Cam Idler 15. Pad 16. Rivet

Removal

- 1...Remove trim pad.
- 2. Remove lock water shield.
- 3. Remove handle assembly by first removing (3) three screws retaining lock.
- Remove (2) nuts attached to handle assembly studes and raise handle assembly after prying pivot link clip loose.
- Remove lock cylinder by repeating step (2) above then removing 2 clips on rear of cylinder.

Installation

- If required, install new lock cylinder seal with assembly replacement.
- 2. Position handle assembly and tighten retaining nuts.
- 3. Slide lock back into place and secure with (3) three
- screws.
 4. Carefully check operation of door lock, handle and cylinder.
- 5. Install lock water shield, using foam pressure tape
- 6. Install door trim panel as outlined in this section.

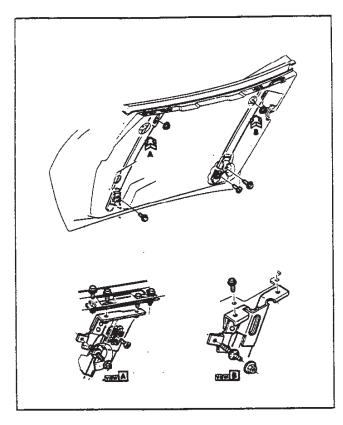


Fig. 26-Window Run Adjustment Points

HINGES-DOOR ASSEMBLY

(Refer to Figure 33)

Removal

- 1. Remove door trim panel as outlined in this section.
- 2. Remove hinge access cover from door inner panel.
- For lower hinge removal, remove door sill plate, cowl kick panel, and radio speaker.
- For access to upper hinge attaching screws, remove lower mast jacket cover and instrument panel pad (left side), or dash panel pad (right side), and air inlet ducts.
- If entire door is to be removed and door has electric power window, disconnect and remove wiring between hinge pillar and door.
- If hinge is to be replaced in same position, scribe around inner strap on door panel and record number of shims found between hinge strap and door panel.
- 7. Remove bolts retaining hinge to door. DO NOT ALLOW DOOR TO HANG UNSUPPORTED ON ONE
- 8. Remove bolts retaining hinge to body.

Installation

- If door assembly has been removed from car, scribe around lock striker as explained under Adjustments— Door Lock Striker, and remove striker from lock pillar.
- Install hinges, replacing same number of shims removed, and aligning door hinge straps with marks scribed at disassembly.

- As necessary, perform door adjustments as outlined in this section.
- If door is equipped with power window, reinstall wiring.
- Replace all trim and panels removed during disassembly.

REAR QUARTER

DOOR SILL PLATE AND MOLDING

Figure 34 illustrates assembly details of both the door sill plate and molding. The sill plate, which retains the carpet, the cowl trim kick panel, and lock pillar front edge trim, is mounted to the body by four (4) screws.

The upper molding is replaced by removing seven (7) screws; the lower molding is replaced by first removing the upper molding and then removing five (5) screws and four (4) nuts at face of molding.

UNDERBODY STORAGE COMPARTMENT

Located directly behind the front seats, the underbody storage compartment assembly is divided into three separate storage areas.

Refer to Figure 35.

- Remove right hand box by opening lid, and lifting box upward.
- Unfasten storage assembly by removing eight (8) screws along inner flange of frame and lower strap of door hinges.
- 3. Remove assembly from underbody by lifting upward.
- 4. Doors are removed from assembly by removing three (3) screws (outer doors) and two (2) screws (center door) at upper hinge strap.
- Center storage compartment box is removed by removing seven (7) screws located around inside top edge of box.
- 6. For installation, follow above steps in reverse order.

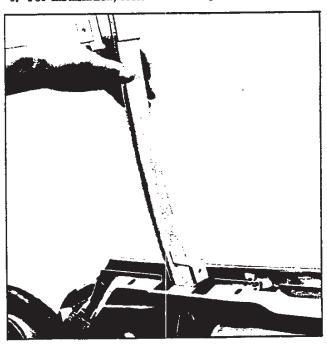


Fig. 27—Removing Front Glass Channel

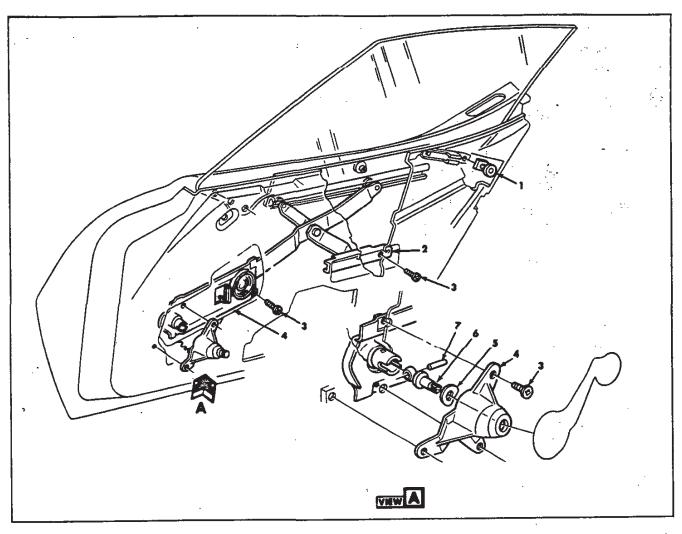


Fig. 28-Manual Window Regulator

- 1. Roller and Slide Assembly
- Channel Assembly
 Screw

- 4. Housing 5. Washer-Spring
- <u>6</u>. Shaft 7. Pin

REAR END

FOLDING TOP COMPARTMENT LID

(Refer to Figure 36 for parts identification.)

Adjustment

Hinges

The folding top compartment lid should be adjusted so that, in the closed position, the surface of the lid is flush with surrounding body surfaces, and space between lid edge and body is 1/16" to 3/16" at sides and 3/16" to 1/4" at rear. Whenever lid position is changed on hinges, lock engagement must be inspected and adjusted if necessary. Adjust hinge position as follows:

- 1. Scribe a line on lid surface following contour of hinge strap. This line will assist in observation of lid movement during adjustment (fig. 37).
- 2. To raise or lower top surface of lid, add or remove hinge shims as required.

Lock engagement is adjusted as follows:

- 1. Lock striker is adjusted in and out to the extent of slotted mounting holes.
- 2. Release of lock is adjusted by loosening lock assembly retaining bolts and moving lock fore and aft to the limit of slotted holes in lock base.
- 3. After adjustment, lock release should be tested and readjusted as required.

Hinges

Removal

- 1. Scribe around hinge as shown in Figure 37.
- 2. Hinge is removed as an assembly by opening top compartment lid fully, and removing three (3) retaining screws. Note number of shims found between hinge frame and compartment floor.
- 3. Remove spring from hinge assembly by closing top compartment lid as far as possible and inserting

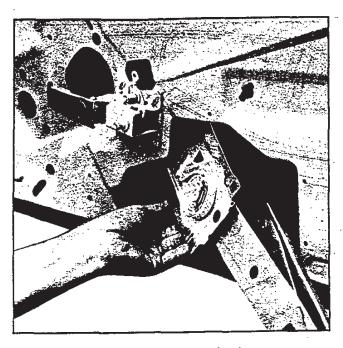


Fig. 29-Removing Window Regulator

Tool J-9559 between expanded coils in spring. Opening top compartment lid fully allows removal of spring as shown in Figure 38.

 Directly after spring is removed, insert long bolt supplied with J-9559 through holes in end of tool through the spring, and install nut on bolt.

Spring may be removed from J-9559 or J-9559 may be installed in a new spring, by the following method:

- 1. Place a closed 6 or 8 inch "C" clamp in vise or fasten it to a bench top anchored to floor.
- Hook one end of spring in clamp and the other end in hook of chain hoist, or "cherry picker", as shown in Figure 39.
- Elongate the spring enough to allow insertion of J-9559. Install through bolt if spring is not to be installed on hinge immediately.

Installation

- Install same number of shims as removed or, if repairing collision damage, etc., position hinge in compartment, install upper mounting screws, fill gap between floor and hinge frame with shims and install lower mounting screw.
- 2. If spring has been removed from hinge, install spring in J-9559 and place spring on hinge with compartment lid raised; closing lid releases J-9559 for removal. Upper end of spring should rest in the one of three notches yielding best lid operation. Approximately three pounds force is necessary to close lid.

Top Lock

- For locks on either side, remove rod mounting clamps by removing one (1) hex screw.
- 2. Remove two (2) nut-washer assemblies.

- After disassembling lock from mounting studs, carefully remove cover and gasket from compartment lid.
- For installation, follow above steps in reverse order.
 Test lock and control mechanism for proper operation.

Lock

Removal

- Remove rod mounting clamps. Remove retainer from control rod assembly and disengage rod from control.
- Scribe a mark on lid along outer contour of lock assembly.
- Remove three (3) lock assembly retaining screws and remove lock from compartment lid.

Installation

- Place lock assembly on compartment lid aligned with scribed line and install retaining screws.
- 2. Install end of rod in control assembly and fasten retainer securely.
- Test operation of lock thoroughly, and adjust if necessary as outlined in this section.

Control

Removal

- Remove inner mounting clamps from both cables, and disengage rods from control by removing retainers.
- Remove four (4) mounting screws and remove control from compartment lid.

Installation

- Position control on compartment lid and install mounting screws.
- Install ends of rods in control and fasten securely with retainers.
- 3. Engage push rod with retainer.
- 4. Test operation of locks and adjust if necessary.

GAS TANK DOOR AND REAR TRIM

Figure 40 illustrates installation details of gas tank door, letter trim, and tail pipe bezel.

Gas tank door assembly and bezel are replaced by removing sheet metal screws located around inner surface of bezel.

The holding force of door latch mechanism is adjusted by removing assembly and turning individual lock pins with allen head wrench.

Trim letters are retained by special nuts accessible from underneath vehicle.

REAR FILLER PANEL

- Remove rear license plate and housing as explained in Section 14.
- 2. Remove tail pipes from mufflers.
- 3. Remove eight (8) mounting screws retaining filler panel to body (fig. 40).
- 4. For installation, follow above steps in reverse order.

SPARE TIRE MOUNT

Refer to Figure 41.

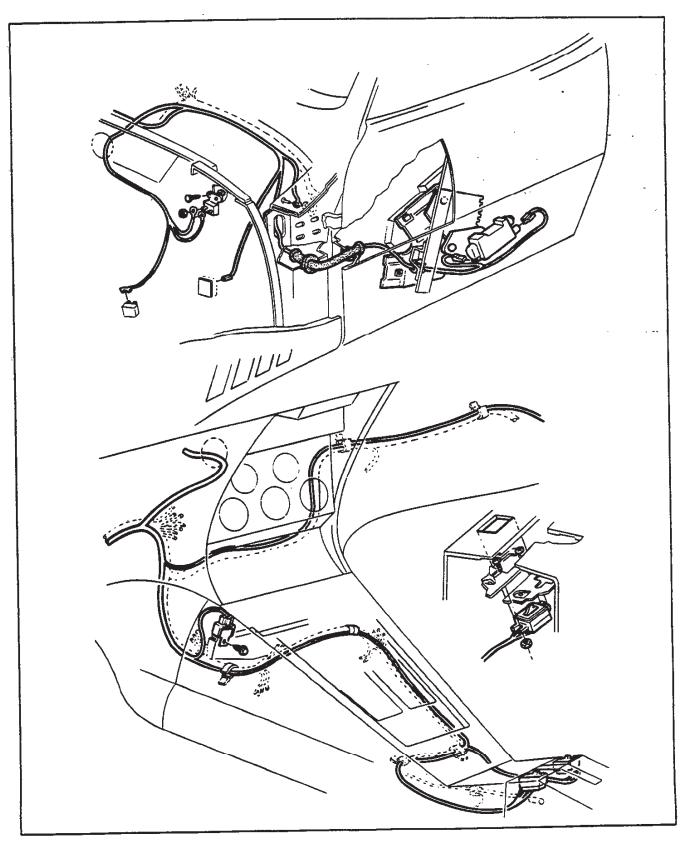


Fig. 30-Power Window Regulator Wiring



Fig. 31-Locking Arm in Place

Removal

- 1. Remove spare tire as outlined in Owner's Manual.
- Loosen pivot bolt lock nuts and turn pivot bolts out of weld nuts in crossmember.
- Remove two (2) screws retaining swivel bolts assembly to body.
- 4. Remove four bolts holding cover assembly to body.

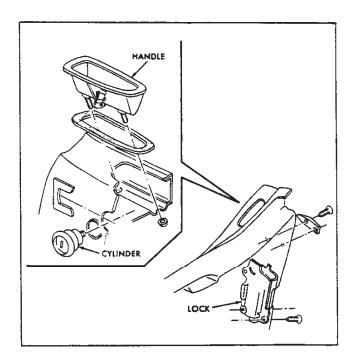


Fig. 32-Door Handle and Lock Cylinder

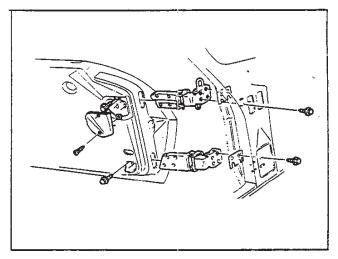


Fig. 33-Side Door Hinges

Installation

Installation is made by following removal procedure in reverse order. Before installation swivel bolt assembly, coat nut and bolt threads with chassis grease.

REAR PLENUM DRAIN (Fig. 42)

The coupe rear plenum drain assembly is located in the left rear quarter of the vehicle. The exterior mounted drain shield is located in the left rear wheelhouse.

Replacement of Drain Hose

- Remove interior quarter trim panel as outlined further in this section.
- 2. Loosen clamp on drain hose.
- 3. Remove and replace drain hose.
- 4. Install clamp on hose at rear plenum.
- Reinstall quarter trim panel in the reverse order of removal.

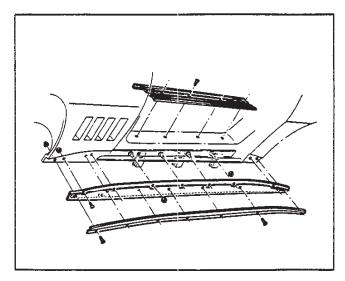


Fig. 34-Sill Plate and Trim Molding

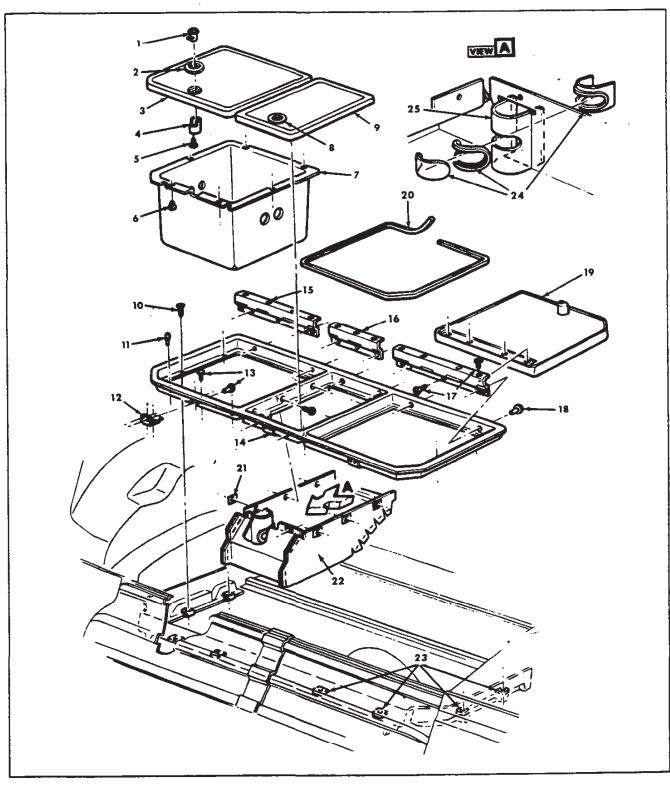


Fig. 35—Under Body Storage Compartment

- Cylinder and
 Case Assembly
 Escutcheon
 Door

- 4. Retainer 5. Screw 6. Bumper 7. Cover

- 8. Cylinder and Case Assembly
 9. Center Door
 10. Screw
- 11. Bumper 12. Striker 13. Rivet 14. Striker
- 15. Hinge 16. Hinge 17. Screw 18. Rivet
- 10. Door 20. Seal 21. Nut
- 22. Center Compartment 23. Spring Nut 24. Lens Assembly 25. Shield

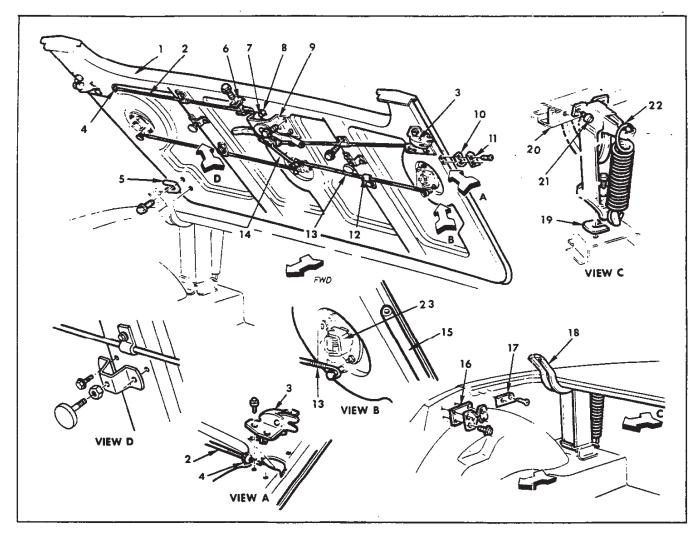


Fig. 36-Folding Top Lid Assembly

- 1. Lid Assembly
- 2. Cable
- 3. Lock Assembly
- 4. Grommet
- 7. Screw
- 5. Shim 6. Clamp

- 8. Stop
- 9. Control Assembly
- 10. Spacer
- 11. Plate
- 12. Clip 13. Rod

- 14. Rod
- 15. Weatherstrip
- 16. Spacer
- 17. Piate
- 18. Hinge Assembly
- 19. Shim
- 20. Body Upper Panel
- 21. Screw-Lock Washer Assembly
- 22. Spring
- 23. Top Lock

RUGS AND INTERIOR TRIM

CLEANING SOFT TRIM

Procedure for Cleaning Folding Top Material

The top should be washed frequently with neutral soap suds, lukewarm water and a brush with soft bristles. Rinse top with sufficient quantities of clear water to remove all traces of soap.

If the top requires additional cleaning after using soap and water, a mild foaming cleanser can be used. Rinse the whole top with water; then apply a mild foaming type cleanser on an area of approximately two square feet. Scrub area with a small soft bristle hand brush, adding

water as necessary until the cleaner foams to a soapy consistency. Remove the first accumulated soilage with a cloth or sponge before it can be ground into the top material. Apply additional cleanser to the area and scrub until the top is clean. Care must be exercised to keep the cleanser from running on body finish as it may cause streaks if allowed to run down and dry.

Procedure for Cleaning Coated Fabrics

Care of genuine leather and coated fabrics (includes vinyl coated formed headlining) is a relatively simple but important matter. The surface should be wiped occasionally with a dry cloth, and whenever dirt accumulates, the following cleaning instructions should be used:



Fig. 37—Marking Hinge Position

- Lukewarm water and a neutral soap should be used. Apply a thick suds, worked up on a piece of gauze or cheesecloth, to the surface.
- 2. The operation should be repeated, using only a damp cloth and no soap.



Fig. 38-Removing Hinge Spring

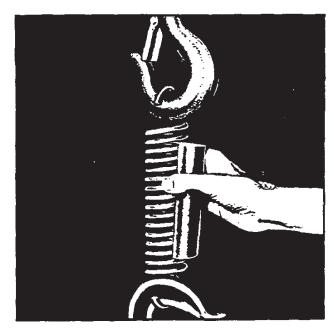


Fig. 39-Installing Tool J-9559 in New Spring

3. The surface should then be wiped dry with a soft cloth.

Polishes and cleaners used for auto body finishes, volatile cleaners, furniture polishes, oils, varnishes or household cleaning and bleaching agents should never be used.

Procedure for Cleaning Carpet

Thoroughly brush or vacuum the floor carpet. In many

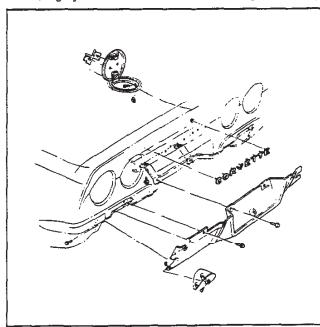


Fig. 40—Gas Tank Door and Rear Trim

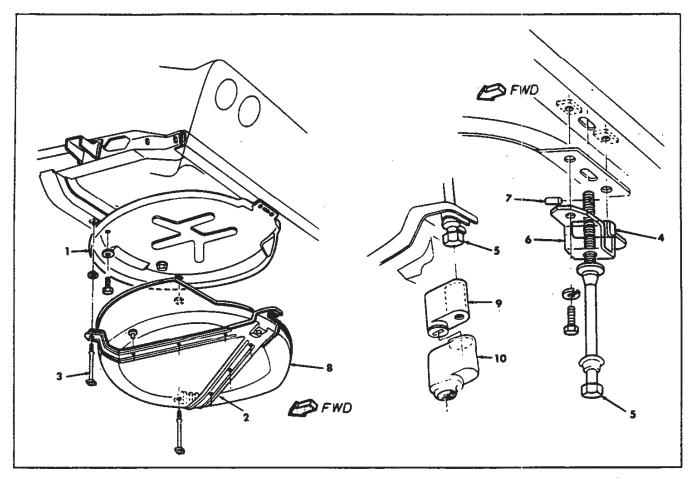


Fig. 41-Spare Tire Mount

- 1. Cover
- 2. Strap Assembly
 3. Strap Assembly Pivot Bolt
- 4. Swivel Bolt Nut
- 5. Swivel Lock Bolt
- 6. Swivel Bolt Bracket
- 7. Swivel Bolt Pin
- 8. Tray
- 9. Lock Case 10. Lock Cover

instances the floor carpet may require no further cleaning. If the carpet is extremely soiled remove carpet from car and thoroughly vacuum to remove loose dirt; then with a foaming type upholstery cleaner, clean approximately one (1) square foot of carpet at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner. After cleaning the carpet use an air hose to "fluff" the carpet pile, then dry the carpet. After the carpet is completely dried, use an air hose to again fluff the carpet pile.

NOTE: If the carpet is not extremely soiled, it may be cleaned in the car by applying a small amount of foaming type upholstery cleaner with a brush.

Carpets and Covers—All Models

Removal of front compartment carpeting will require removal of sill plates and loosening of console trim; service of these items is covered in this section under Front End-Cowl Area and Console Trim.

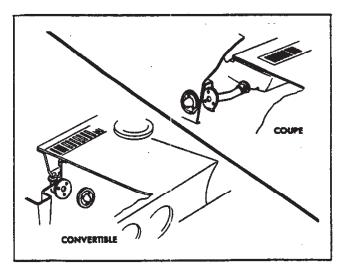


Fig. 42—Rear Plenum Drain

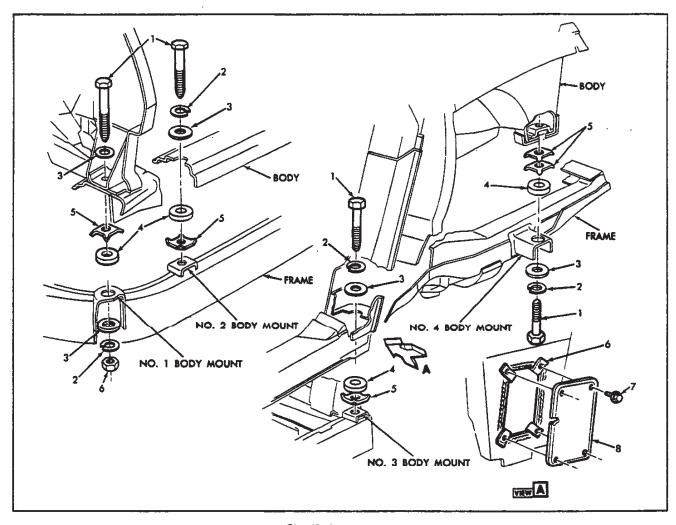


Fig. 43-Body Mounts

Bolt
 Lockwasher

Washer
 Spacer

5. Shim 6. Nut 7. Screw
8. Access Cover

In areas where carpeting is to be cemented, proceed as follows:

- Remove all old carpeting, jute, etc. which may adhere to floor after original carpet is pulled up.
- Apply 3M-1711 cement or equivalent, following directions furnished with package. Be sure floor is reasonably clean and dry before applying cement.

SEATS

Removal

- 1. Remove bolt retaining each forward support to floor.
- 2. Fold seat back forward.
- Loosen two bolts retaining each seat hold-down bracket.
- 4. Move seat forward and out of brackets.

Adjustment

Height of seats is adjustable at both front and rear by means of shims or washers.

Angle of seat backrest may be changed by adjusting stops located on lower edge of seat back.

BODY MOUNTING

Figure 43 illustrates underbody attachment-to-frame body mounting brackets. Shims which are shown on rear crossmember are cemented in place.

The torque of all body mounting bolts should be checked periodically as an aid to preventing annoying squeaks and rattles. All bolts shown in Figure 43 should be torqued 40 to 50 lb. ft.

BODY REPAIRS

GENERAL INSTRUCTIONS

The following gives information necessary for repair of collision damage and performance of general maintenance on Corvette bodies. Included here is information dealing with availability of repair panels, general installation procedures for installing panels and repairing damage to the body.

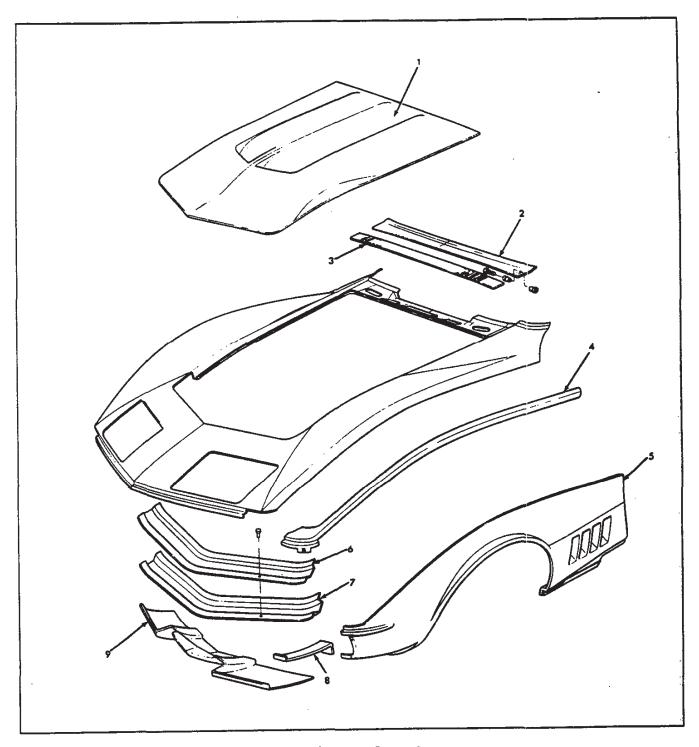


Fig. 44-Front Body Construction

- 1. Panel Hood
- 2. Panel—Access Door 3. Panel—Grille
- Bonding Strip—Front Fender
 Upper to Lower
 Panel—Front Fender Lower Rear

- 6. Reinforcement—Front Fender 7. Reinforcement—Front Fender
- 8. Bonding Strip—Front Fender. Lower Front to Rear 9. Panel—Radiator Grille Lower

Repair of fiber glass reinforced plastic bodies can be a relatively easy matter if precautions are observed. In cases where welding must be done on steel parts

which are installed on body, do not allow flame or welding heat to come into direct contact with plastic body panels. The general area around the welding operation

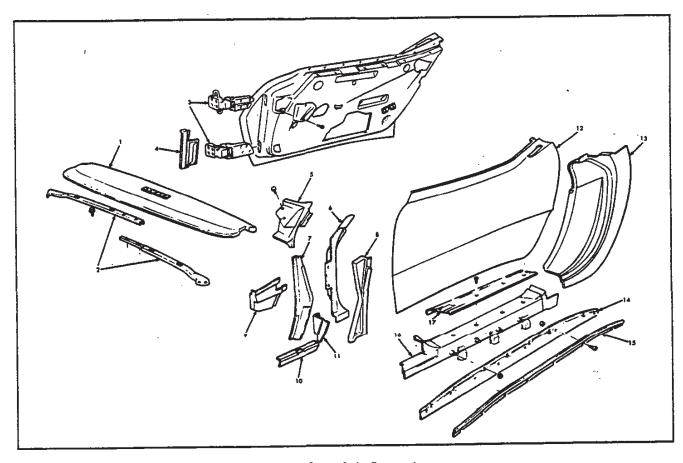


Fig. 45-Center Body Construction

- 1. Pad-instrument Panei
- 2. Reinforcement—instrument Panel
- 3. Door Hinge Assembly
- 4. Panel—Plenum Side Extension
- 5. Bonding Strip-Lower Outer Windshield
- 6. Pillar-Body Hinge
- 7. Plenum Side Ponel 8. Dash Extension Panel
- 9. Sill Inboard Extension
- 10. Plenum Side Panel Extension
- 11. Filler Panel
- 12. Panel—Side Door Outer
- 13. Pillar Assembly-Door Lock
- 14. Molding
- 15. Molding-
- 17. Sill Plate

should be protected with wet asbestos or any other like method (several thicknesses of aluminum foil makes an excellent heat shield if out of the way of direct flame).

Straightening of steel parts while still in body must be done with care. When applying hydraulic jacks or like equipment which operates by exerting force, bear in mind that the part being used to brace the stationary end of tool must be able to withstand such usage and that fiber glass parts, though tougher than steel, will not yield or "take a set" as with steel parts, so they cannot be "straightened". If poor alignment exists due to collision or other physical damage, check steel reinforcements in cowl and sill areas with care.

Tracing line of damaging force and checking body carefully for broken bonds and cracks before, during and after repairs will pay off repeatedly.

Small cracks and faults in bonds and panels will usually grow larger if left unattended.

REPAIR PANELS

Body repair panels are illustrated in Figures 44 through 47. Those shown are typical of panels which are available through Chevrolet parts sources. Procedures which may be used for installing panels are explained in the following paragraphs.

Figure 48 illustrates various bonds which will be encountered during repair procedures.

PRECAUTIONS

Creams are available to protect the skin from a condition known as occupational, or contact dermatitis. This common type of dermatitis is not contagious. Improved resin formulas in the approved kits have almost eliminated skin irritation. Cream is supplied with the kit for persons who may have a tendency toward skin irritation from the regins or dust.

The application of these creams is recommended whenever the Resin Kit materials are used. Generally, the cream is not required when the plastic solder kit is being used. Directions for using the cream is as follows:

- 1. a. Wash hands clean. Dry thoroughly.
 - b. Squeeze about 1/2 inch (or 1/2 teaspoonful) of #71 cream into palm of hand.
 - c. Spread evenly and lightly until cream disappears.

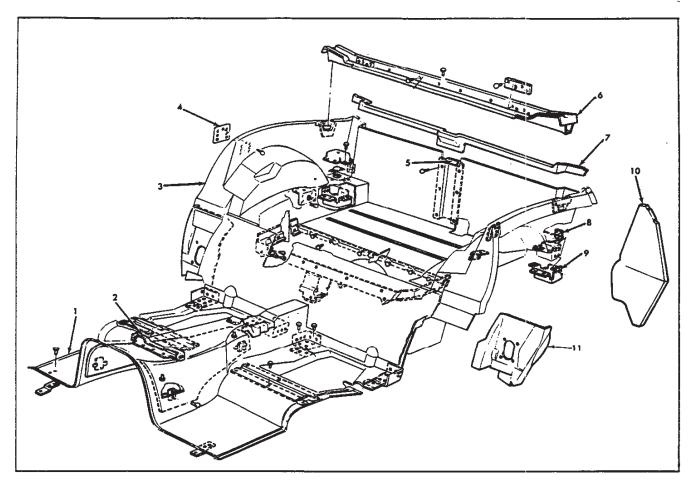


Fig. 46-Under Body Construction

- 1. Panel—Underbody
- 2. Support—Console
- 3. Panel—Wheel Housing Closing—Right Hand
- 4. Lid Lock Striker Anchor
- 5. Reinforcement
- 6. Support-Body Rear
- 7. Panel-Underbody Closing
- 8. Reinforcement—Folding Top Hinge Support (19467)
- 9. Reinforcement-Body Bolt
- 10. Shield—Rear Quarter
- 11. Panel-Body Lock Pillar

Work cream into cuticle, between fingers and around wrists.

- d. Apply second coat, repeating Steps b and c.
- e. Hold hands briefly under cold running water to set cream.
- Remove resin mixture from hands as soon as possible and imperatively before mixture starts to gel.
 This can be observed by the action of the material being used. Resin may be removed with lacquer thinner by washing in soap and water.
- Respirators are recommended when grinding. Also some minor skin irritation from glass and powdered cured resin may be evident. Washing in cold water will help to minimize.
- 4. Use a belt sander with a vacuum attachment for dust control whenever possible.
- Resin mixtures may produce toxic fumes and should be used in well ventilated areas.
- 6. Be careful not to get any resin material on clothing.
- 7. Use the right materials for the job. It is important to use the approved kits because other materials

- available may not meet the required engineering and safety standards.
- Keep materials, utensils and work area clean and dry. These repairs involve chemical reactions, and dirt or moisture may upset the chemical balances and produce unsatisfactory results.
- 9. Before starting repair operations, look for hidden damage by applying force around the damaged area, looking for hairline cracks and other breakage. Check for minor damage at other points in the vehicle such as around exhaust pipes, grille, headlamps and points of wear. Early repair of minor damage may prevent major repair later.

PLASTIC SOLDER KIT

The Plastic Solder Repair Kit is used for minor repairs on the Corvette body. These materials will produce an easy, quick and lasting repair in the case of small cracks, surface imperfections and small holes.

1. Use paint remover or power sander, and remove

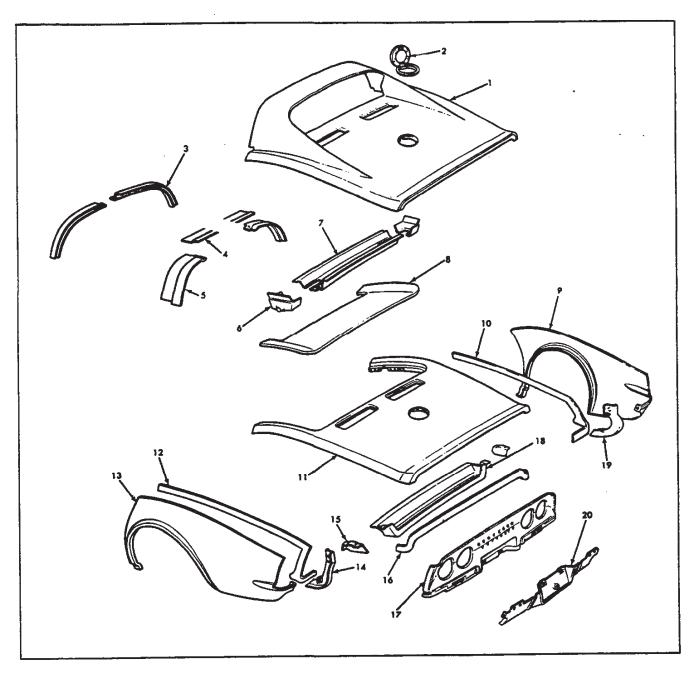


Fig. 47-Rear Body Construction

- 1. Fanel—Body Rear Upper 2. Bezel—Fuel Tank
- Filler Door
- 3. Reinforcement Roof-
- Right Hand
 4. Panel—Rear Roof Inner
- Center—Left Hand

 5. Panel—Rear Roof Inner
 Rear—Left Hand
- 6. Extension-Body Rear Upper Panel

- 7. Support—Body Rear Upper Panel
 8. Lid—Folding Top Compartment
 9. Panel—Rear Quarter—
 Right Hand
- 10. Bonding Strip—Body Rear Upper Panel to Quarter Panel-Right Hand
- 11. Panel—Body Rear Upper
- 12. Bonding Strip-Body
- Rear Upper Panel

 13. Panel—Rear Quarter—
 Left Hand
- 14. Bonding Strip-Body Lower Panel to Quarter Panel—Left Hand
- 15. Support-Body Rear
- Upper Panel 16. Bonding Strip-Rear Upper
- 17. Body Rear Lower Panel
 18. Support—Body Rear
 Upper Panel
 19. Shield—Rear Quarter Splash
 20. Panel—Rear Filler

- finish from damaged area. Carefully inspect for other areas requiring repair.
- 2. Mix the materials (fig. 49).

3. Apply the material, using a putty knife or rubber squeegee, Figure 50. Work the material into the repair and build the material up to the desired

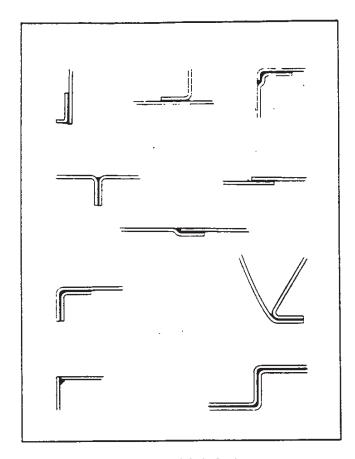


Fig. 48—Typical Body Bonds

contour. For deep filling and on vertical surfaces, several layers may be used, each about 1/2" thick.

4. Finish the repair by grinding, sanding and painting in the usual manner, Figure 51.

RESIN KIT

The Resin Repair Kit, for major repairs, contains resin, hardener, Thixatrope, fiberglass cloth, protecting



Fig. 49-Mixing Plastic Solder Material

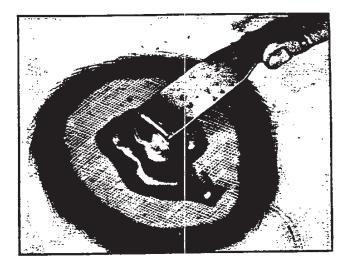


Fig. 50-Applying Plastic Solder

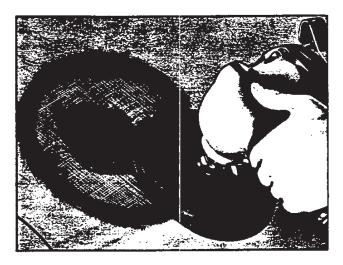


Fig. 51—Finishing Plastic Solder Repair

creams and mixing utensils. Repairs such as torn panels and separated joints require the adhesive qualities of the resin and the reinforcing qualities of the glass fibers.

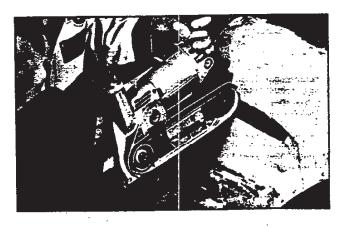


Fig. 52-Grinding "V" at Damaged Area



Fig. 53-Applying Resin Mixture to Fiberglass

The following procedure is basic for repairing any plastic (fiberglass component or panel).

- Look for hidden damage. Apply force by hand around the damaged area.
- Use paint remover and remove finish from around damage area. Inspect area again for signs of other damage.
- 3. Grind or file the damaged area to form a "V" at the broken or cracked portion. Side of "V" should have a shallow pitch for maximum bonding surface. A belt sander with a vacuum attachment will minimize the dust problem, Figure 52.
- 4. If rear of damage is accessible, use a button-type repair. Clean back of area to permit the use of laminate (resin-saturated glass-cloth) on both sides of damaged area.
- 5. Cut fiberglass cloth to size. Make certain a minimum of five layers is cut for the average repair.
- 6. Mix resin and hardener, 1 part hardener to 4 parts resin. Add Thixatrope to the mix to give the mix body and reduce the "runniness" of the material.
 - certain all containers are dry and clean and the resin and hardener cans are kept closed when not in use. Do not use waxed cups for mixing and do not allow resin to enter hardener can or vice versa.
- Saturate layers of fiberglass (fig. 53). Place laminate over damage area. Smooth out wrinkles, and



Fig. 54-Applying Laminate to Body

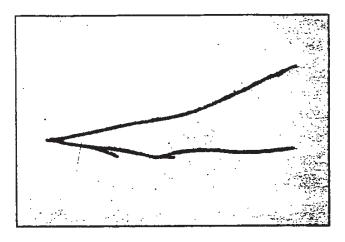


Fig. 55-Typical Scratched Panel

- make sure general contour of area is maintained, Figure 54.
- Apply heat to repair area. Heat lamps are recommended, used at least 12" away from repair. Allow 15 to 20 minutes curing time. Trim repair to shape at gel stage.
- After the repair is cured, grind, file or sand to contour. Files other than body files may be more suitable. A belt sander with a vacuum cleaner attachment will minimize the dust problem. Feather edge and finish sand.

NOTE: After Resin Repair, small pits or irregularities may appear in finished surface. Imperfections should be repaired using the Plastic Solder Repair Kit.

SPECIFIC REPAIRS

Scratched Panels, Spot Refinishing

In many instances, a scratched panel will involve only a paint refinishing job. Figure 55 shows the top of a fender panel which has been scratched through to the plastic.



Fig. 56—Repair Area Finish Sanded

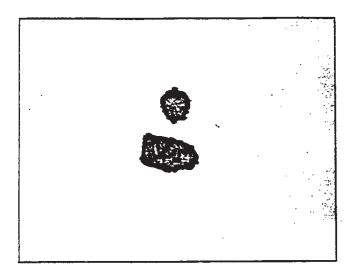


Fig. 57—Typical Pitted Panel

- Remove all paint down to the plastic from the area surrounding the scratch with Lacquer Removing Solvent.
- Featheredge the repair area with No. 220 wet or dry sandpaper and finish block sand with No. 320 wet or dry paper, Figure 56.

caution: Do not sand too deeply into fiberglass mat. Should it be necessary to cut fairly deep into the glass mat use the repair procedure suggested for dents and pits in plastic panels.

- Clean up repair area using Prep-Sol or equivalent, then finish the clean-up with a tack rag.
- Protect surrounding panels by masking before performing paint refinishing operations. Use only nonstaining type masking tapes on Corvette plastic body.
- 5. Refinish panel as described in paint refinishing portion of this manual.

Dents or Pits in Panels, Cracks in Glaze Coat

Figure 57 shows a panel which has received a heavy glancing blow, resulting in an indentation or large pit in the panel. The following procedure is advised for a repair of this type of damage. Cracks in the glaze or finish coat of plastic and paint may also use this procedure.

NOTE: This repair may be used wherever the damage is not extensive and the plastic is not pierced, but the damage area does require a plastic build-up.

- Remove paint down to the plastic from area surrounding the damage with Lacquer Removing Solvent, or its equivalent.
- Scuff area surrounding damaged area to provide a good bonding surface.
- 3. Clean up work area with Prep-Sol then use tack rag for finish clean-up.
- 4. Use the Plastic Solder Repair (previously described) to fill the imperfections.
- Feather-sand damaged area with No. 220 sandpaper and finish sand with No. 320.

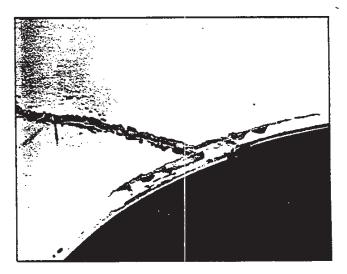


Fig. 58-Typical Cracked Panel

6. Prepare repair area for paint refinishing operation.

Cracked Panels

NOTE: For best results, temperature should be at least 70°-75°F.

- In the case of a cracked panel, such as shown in Figure 58, cut along the break line with a hacksaw blade and remove broken portion of the panel.
- Remove the paint down to the plastic from both portions of the panel with a Lacquer Remover or equivalent.
- 3. Remove dirt and deadener thoroughly, back approximately 2 to 3 inches from the fracture, on the under side of both portions of the panel. Also, remove paint and scuff area clean to provide a good bonding surface.
- 4. Remove all cracked and fractured material along the break. Bevel the attaching edges of the panels at approximately a 30° angle with a file or grinder and scuff plastic surfaces along edges of break.

NOTE: Mask surrounding panels using a non-staining masking tape.

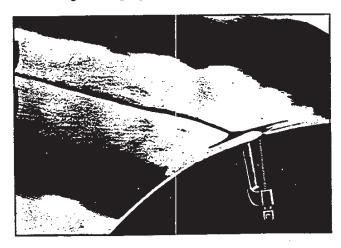


Fig. 59-Cracked Panel Preparation

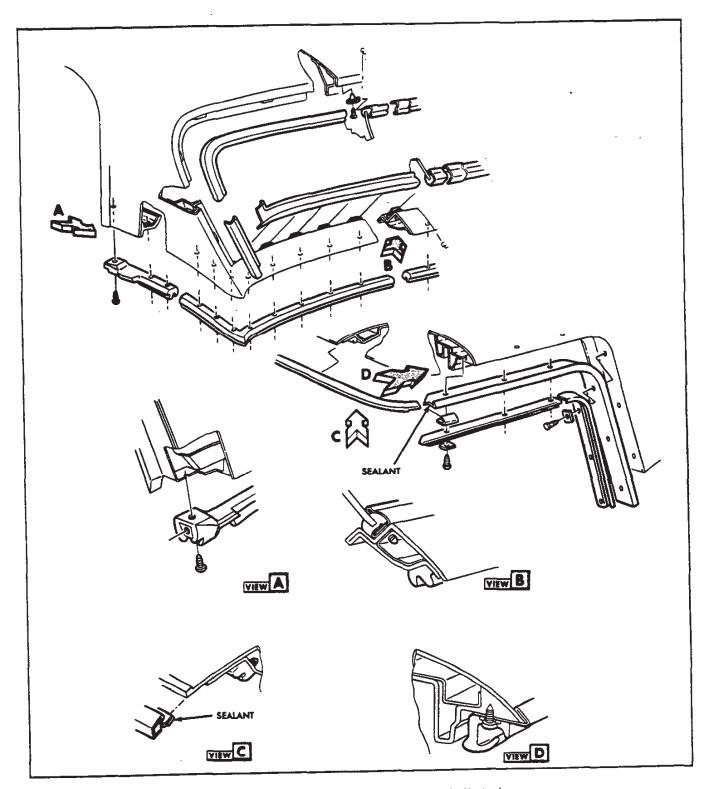


Fig. 60-Molding and Weatherstrip (Convertible Hardtop)

- 5. Use "C" clamps to align panel portions allowing approximately 1/8" between the panels or as necessary to provide proper alignment of panels, Figure 59.
- Cut two pieces of woven glass fiber cloth for backup of sufficient size to overlap the fracture by approximately two inches.

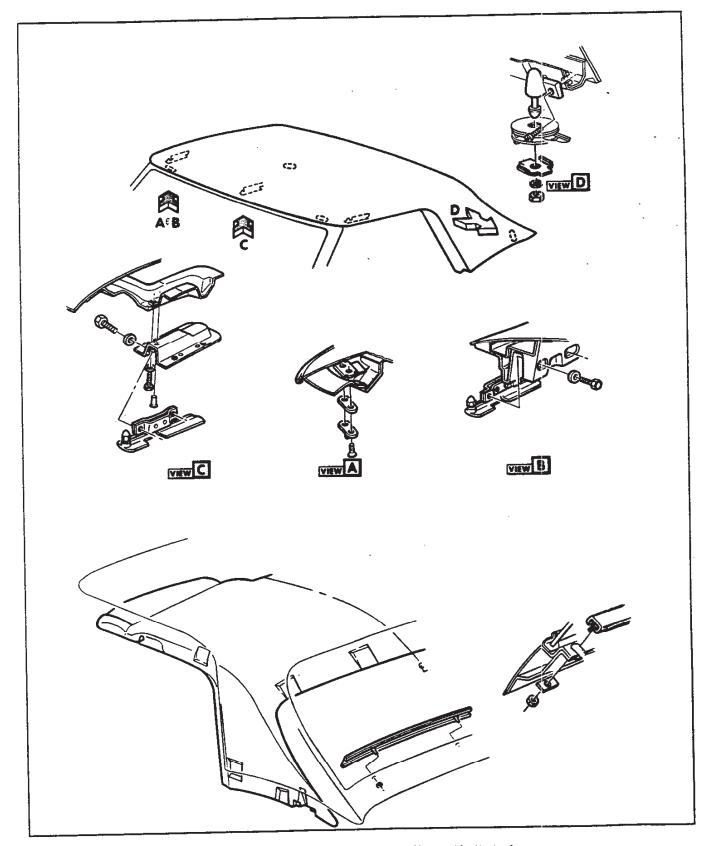


Fig. 61—Top Attachments and Headlining (Convertible Hardtop)

- Clean up repair area with Prep-Sol, then use tack rag for finish cleanup.
- 8. Use the Resin Repair Procedure previously described.

NOTE: In some cases it may be advantageous to provide additional reinforcements along a fracture. This may be accomplished by placing glass cloth strips in the panel break before applying the plastic mixture.

Fractured Panels

Sometimes damage will occur to panels where the underside is inaccessible or for reasons of panel contour it is impractical to use back plies of fiberglass cloth. The following repair operations are typical of this type of damage.

- Prepare the damaged area by grinding or filing all cracked and splintered material away from the fracture.
- Bevel the edge of the fracture at approximately a 20° angle.
- Remove paint from area surrounding fracture with Lacquer Solvent, or its equivalent.
- Scuff surface to provide a good bonding surface.
 Then, clean up area with Prep-Sol and wipe dry.
- Protect adjacent panels by masking, use non-staining masking tape.
- 6. Cut a strip of fiberglass cloth of sufficient size, so the fracture will be lapped from 1 to 2 inches on all sides.
- Prepare plastic mixture in an unwaxed paper cup. (See Resin Repair Kit procedure.)
- Impregnate glass fiber cloth by brushing or dipping in plastic mixture. Squeeze excess mixture from cloth.
 - NOTE: Avoid over-rich plastic areas in the glass cloth, as the strength of the patch is directly proportional to the glass content of the patch.
- Position plastic impregnated fiberglass over the fracture on the exterior of the panel, lap the break by 1 to 2 inches, and depress into fracture.
- Carefully work excess plastic out of woven glass by sponging from the center of the break outward.
 - NOTE: Hold woven glass in place until plastic resin "gels" with Saranwrap or some similar material.
- 11. Trim excess or loose strands of fiberglass from patch.
- 12. If low spots exist, prepare another plastic mixture of resin and hardener and mix thoroughly. To this mixture add short fibers cut from glass cloth to give the mixture a putty-like consistency.
- 13. Liberally apply the plastic mixture with a spatula to fracture and surrounding area. Deposit enough material build-up to allow for filing and sanding operations.
- 14. Allow the patch to harden.
- 15. File or grind patch to match the general contour of the panel. Exercise care when performing these operations to avoid gouging the patch or surrounding panel.

- Use plastic solder as necessary to fill any imperfections.
- 17. Allow fill to harden, then sand finish preparatory to paint operation.

Panel Replacement

To install a replacement panel, the following method may be used. Various repair panels are available for service. See Repair Panels in general instructions at beginning of this section. These complete panels may be used or sections may be cut to accommodate the type of repair necessary. The panels should be fitted in and all attaching parts installed to insure proper alignment.

To replace panel, proceed as follows:

- Cut out damaged panel with a hacksaw blade and thoroughly remove all dirt and paint from the underside of the old panel or panels for a distance of approximately 2 to 3 inches back from the attaching line.
- Remove the paint from the finish side, for a distance of 2 to 3 inches on the panel adjacent to the replacement panel location with lacquer solvent or equivalent.
- Scuff the surface on both the replacement panel and adjacent panel for a distance of 2 to 3 inches back from the attaching line and wipe clean.
- 4. Bevel all attaching edges at approximately 30° across the entire thickness of the plastic so a single "V" butt joint will be formed on the finish surface when the pieces are joined. If the replacement panel does not fit closely to the break, reshape to suit.
- 5. Cut two backup pieces of woven glass fiber cloth to run the entire length of the joint or shorter lengths of fiber cloth may be lapped over entire length of joint, also cut wide enough to lap the junction line on either side by two or three inches.
- Prepare a sufficient amount of liquid plastic in an un-waxed paper cup by mixing resin with hardener (See Resin Repair procedure).
- 7. Align replacement panel, then clamp panel in place to form a closed "V" butt joint at the panel junction. When panel cannot be clamped, use 3/16" bolts with large washer on inner and outer of panel to hold panels in alignment or use straps and sheet metal screws.
- Impregnate backup plies of woven glass cloth with prepared plastic mixture by dipping or brushing. Remove excess plastic from cloth by squeezing.
- Place impregnated backup plies on underside of panels. If necessary, hold backup plies in place with paper until plastic "gels."
- 10. Prepare another plastic mixture of resin and hardener and mix thoroughly. To this mixture add cut glass fiber (1/2" lengths) until mixture has a puttylike consistency, or utilize glass cloth.
- 11. Fill "V" groove with reinforced plastic material or saturated glass cloth. Build up surrounding area with sufficient material to allow for finish operations.
- 12. Allow patch to harden.
- File or sand (#80-D sandpaper) to general panel contour.
- 14. Allow plastic fill to harden, then sand, preparatory to paint operations.

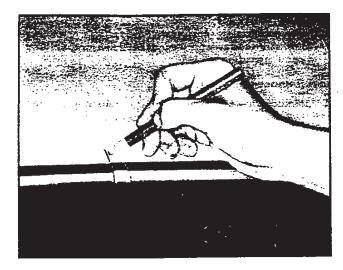


Fig. 62-Marking Molding Position

HARD TOP

CARE AND STORAGE

The outside painted finish of the hard top should be cleaned in the same manner as the rest of the body. The inside headlining should be cleaned as outlined under Cleaning Soft Trim.

When hard top is not in use, it should be stored indoors where it can be kept clean and dry. If stored for a long period of time, keep covered to prevent dirt settling on headlining and outside surface.

REAR WINDOW

Refer to Figures 60 and 61 for parts identification.

Removal

- Remove hard top from vehicle and place protective covering over headlining.
- Mark position of right-hand upper reveal molding end (fig. 62) and pry out from retaining clips. Repeat for left-hand and lower molding assemblies.
- Remove lower (inside) garnish molding by removing four (4) nuts from fixed studs and carefully pulling molding outward.
- Follow Steps 8 through 13 as outlined in the section entitled FRONT END--WINDSHIELD for removal of glass.

Installation

- Position replacement glass in opening and carefully check relationship of glass to flange completely around opening. Overlap of glass should be equal with a minimum overlap of 3/16 inches.
- Where necessary, place shims under lower spaces to obtain required overlap of glass to upper and lower flanges.
- After proper alignment is attained, mark position on glass and top surface with grease pencil.
- Follow Steps 16-22 in the section entitled FRONT END--WINDSHIELD for installation of glass.
- Press glass lightly to set caulking to window opening flanges. Paddle material where necessary to ensure proper seal.

6. Water test immediately using a cold water spray. If water leaks are encountered, use flat bladed screw driver or splint, and from the inside, paddle caulking material into point of leakage.

CAUTION: DO NOT RUN A HEAVY STREAM OF WATER DIRECTLY ON CAULKING MATERIAL WHILE THE MATERIAL IS STILL SOFT.

 Install previously removed moldings in reverse order of removal.

TOP ATTACHMENTS

Figure 61 illustrates location and installation of guides and lock mechanisms. With headlining removed as outlined in this section, to adjust left and right hand locks fore and aft, mark original position, loosen two (2) mounting bolts, and move in desired direction. Make certain that lock is engaged in serrations before tighten ing mounting screws.

Up-and-down adjustment is performed by turning hexagonal latch bolts clockwise and counter-clockwise respectively. Header guide pins and rear pin housings are retained by mounting screws located at flanges. Center trim plate is removed by first removing center lock, and then four (4) retaining screws.

HEADLININGS

The headlining assembly is secured to the top by plastic fasteners located around the periphery of the hard top inner panel. The headlining is removed by carefully disengaging fasteners by prying outward with fingers on flat-bladed instrument. After removal from plastic top, the headlining can be disassembled into three parts by removing retaining nuts at inside surface of headlining. For installation, make certain to align headlining to top before engaging plastic fasteners.

WEATHERSTRIP AND DRIP MOLDING

As shown in Figure 60, door window weatherstrip and drip molding are retained by screws to top assembly. Side outer and rear outer weatherstrip are mounted to body at ends by screw and around periphery by special plastic retaining clips. Weatherstrip is replaced by removing two (2) screws and carefully pulling outward at clip location.

Inner forward weatherstrip is replaced by removing mounting screws and disengaging special clips along length of weatherstrip. All drip molding must have pumpable sealer on underside and adhesive applied to weatherstrips.

VINYL COVERING

Removal

- 1. Remove weatherstrip assemblies.
- 2. Remove reveal moldings.
- Prior to removing fabric cover, application of heat to cemented areas will permit easier loosening of cemented edges.

CAUTION: Apply heat by lamps held 18" (minimum) from fabric only until fabric is warm. If lamps are held too close, or fabric cover is

heated over 200°F, the fabric may loose its grain, blister, or become very shiny.

4. Loosen cemented edges of fabric roof cover.

Installation

- Wipe roof panel with a Xylol solvent such as 3M Adhesive cleaner or equivalent. Remove or smooth out excess old cement. Apply solvent and allow to soak before rubbing.
- Where possible, install new cover at room temperature (approximately 72°) to permit easier fitting and removing of wrinkles from the cover assembly.
- Determine center line of roof panel by marking center points on front of hard top and back window opening. Fold cover lengthwise. Lay cover on roof panel. Determine overhang (approximately 1").
- Apply nitrile non-staining vinyl trim adhesive (such as 3M Vinyl Trim Adhesive) to the roof panel adjacent to center line of fabric roof cover.
- 5. Application of nitrile vinyl trim cement should be as thin as possible. An excessive amount of cement may result in trapped solvents (blisters) between fabric cover and roof panel. A mohair roller should be used for thin adhesive application.

NOTE: If nitrile non-staining cement is not available, neoprene type non-staining weather-strip cement (3M weatherstrip cement or equivalent) may be used.

6. Apply cement to entire fabric roof cover.

NOTE: Allow approximately 15 minutes for cement to dry.

- Fold vinyl cover back to contact adhesive on roof panel. Vinyl cover seam must be parallel to centerline of vehicle.
- 8. Repeat above steps for opposite side of roof.
- Use suitable spatula or roller to remove wrinkles and/or bubbles from vinyl cover.
- 10. Trim excess vinyl around entire top to provide a minimum of 1/2" flange which will be cemented to substructure of removable hardtop with adhesive.
- 11. Reinstall reveal moldings and weatherstrips.

Vinyl Roof Cover Repairs

Certain types of fabric roof cover discrepancies can successfully be repaired without replacing or removing the cover.

Scuffs or Small Cuts Near Exterior Moldings

If a small cut is present, an attempt should be made to cement the loose ends prior to performing the following:

- Obtain a scrap piece of fabric roof cover material, or material from a hidden area directly on complaint car (such as under reveal moldings).
- Using an electric wood burning needle or low heat soldering gun, scrape off an appropriate amount of vinyl from scrap piece of material or from hidden area and immediately apply to scuffed or cut area on car.

CAUTION: Be certain low heat is maintained to prevent discoloration of cover.

 Carefully blend applied vinyl to fabric roof cover, utilizing electric needle or soldering gun.

Wrinkles, Blisters and Bubbles

- Pierce each wrinkle, blister and bubble on fabric roof cover with a snall needle.
- Completely saturate a <u>clean</u> shop towel with water and wring out.
- 3. Apply cloth to wrinkle or blistered area.
- Apply a home type laundry iron over shop towel using back and forth strokes until towel is dry. (If iron has heat control settings, control should be set to "wool".)

CAUTION: Do not continue to use iron after towel has become dry as excess heat may cause permanent damage to vinyl roof cover.

- 5. Remove towel and inspect area. If slight wrinkles or blisters are still present, perform the following steps:
- Using a syringe and hypodermic needle filled with clear water, inject sufficient water into wrinkle or bubble to dampen fabric backing.
- 7. Repeat Steps 2 through 4.

FOLDING TOP

CARE OF THE FOLDING TOP

To avoid water stains, mildew, or possible shrinkage of the top material, do not keep the top folded for extended periods of time if it is damp or water soaked. Permit top to dry out in a raised position before stowing. Also avoid pasting advertising stickers, gummed labels or masking tape on the plastic back window. In addition to being difficult to remove, the adhesive on these stickers may also be injurious to the plastic composition of the window.

Care of Rear Window

The large plastic rear window in the folding top will remain in good condition for the life of the top if given proper care. Due to the texture of the plastic window, it is susceptible to scratches and abrasions; therefore, when cleaning the window, follow the steps outlined below.

- To remove superficial dust, do not use a dry cloth.
 Use a soft cotton cloth moistened with water and
 wipe cross-wise of the window.
- 2. To wash the rear window, use cold or tepid (not hot) water and a mild neutral soap suds. After washing, rinse with clear water and wipe with a slightly moistened clean soft cloth. A high quality plastic window cleaner is available from Chevrolet parts sources.

CAUTION: Never use solvents such as alcohol or volatile cleaning agents on the plastic window. These liquids may have a deteriorating effect on the plastic and if spilled, may spot the painted finish on the rear body panels directly below the rear window.

 When removing frost, snow or ice from the plastic window, DO NOT USE A SCRAPPER. In an emergency, warm water may be used. Use care that the

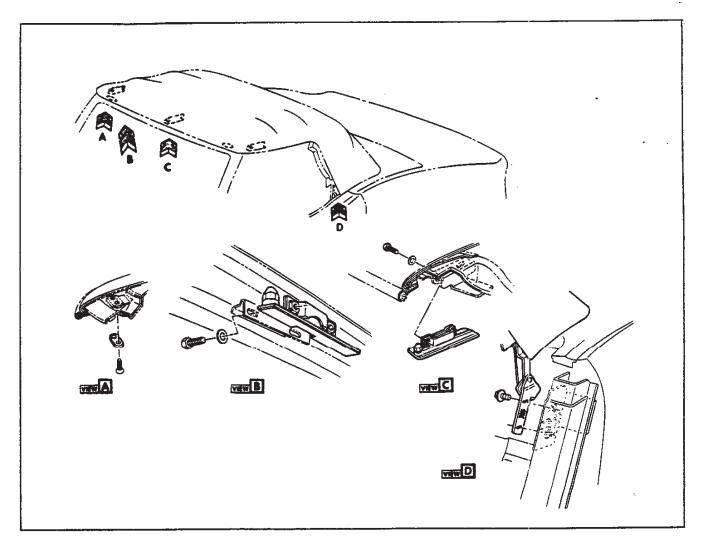


Fig. 63-Folding Top Adjustments

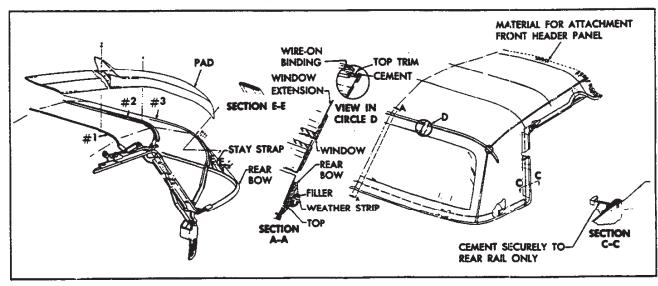


Fig. 64-Folding Top Trim Installation

warm water does not contact the glass windows or windshield.

ADJUSTMENTS

To correct variations in the top fit, adjustments are made at three locations shown in Figure 63. A combination of adjustments may be necessary to correct any given problem, including door and window adjustments which are covered elsewhere in this section.

The folding top adjustments are:

Header

After removing header trim panel, header assembly may be moved fore and aft when the two clamping screws are loosened. This will correct such conditions as header latch guide pin alignment with the holes in the windshield upper frame. Indications of misalignment are loose top trim when top is up and locked, and excessive effort required to engage header locks. Note that it will be necessary to remove side roof rail weatherstrip to gain access to header outer clamping screw. Refer to Weatherstrip portion of this section.

Hinge

The hinges may be moved up and down and fore and aft to the limit of the slotted holes in hinge plate and body. To gain access to hinge, remove rigid plastic trim as explained in Interior Trim portion of this section. Repositioning hinge will correct conditions such as poor top fit at upper and rear edge of windows; faulty fore and aft engagements of rear bow hold-down pins in lock assemblies and loose or over-tight top rear panel when top is raised and properly locked in position.

Rear Bow Hold-Down Locks

Fore and aft adjustment is provided by slotted holes in lock housing. Turning of locating pins adjusts force that holds seal to folding top lid. The hold-down pins may be moved to left or right to center top on body in raised position; thus correcting poor alignment at windows and difficult entry of pins in locks.

TOP ASSEMBLY REMOVAL AND INSTALLATION

The entire top assembly (frame with trim attached) may be removed from vehicle as follows:

- Raise top, but do not engage header or rear bow locks.
- Remove rigid plastic trim as outlined in Interior Trim portion of this section.
- Mark installed position of hinge by scribing outline of hinge plate on lock pillar surface.
- Remove two screws retaining each hinge to lock pillar and remove top assembly from vehicle.
- When installing top assembly, carefully match hinge plate with scribed marks on body lock pillar and install screws. If necessary, proceed as outlined under Top Adjustments.

TOP TRIM AND REAR WINDOW ASSEMBLY

The following information deals with removal and installation of the folding top trim and window assembly

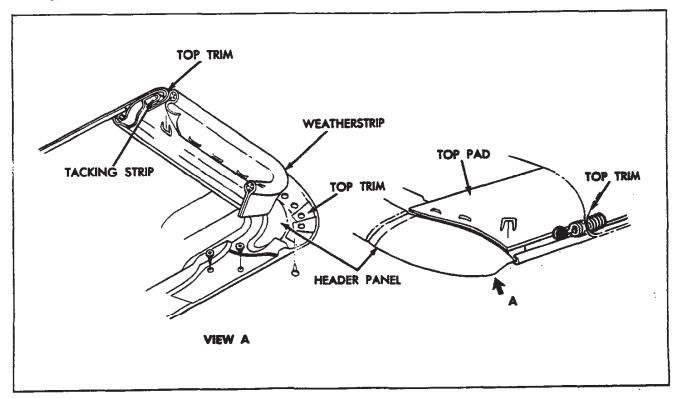


Fig. 65-Trim at Header

complete. Figure 64 may be referred to for parts identifications. Lettered sections (i.e. Section A-A) referred to in the instructions may also be found in Figure 71. Note that the sections are illustrated as they would appear if the parts were cut through on the lettered lines on the top assembly and the cut surface exposed. Arrows indicate direction in which you would have to look in order to see the view shown.

Before old trim assembly is removed, top should be thoroughly adjusted as outlined in this section. As loose parts are removed such as stay straps and pads, their installed positions should be marked as an aid to installation of replacements.

Removal

- Remove rear side rail window sealing weatherstrip as explained further on in this section; also remove screws from ends of header inner weatherstrip. Note, however, that it is not necessary to remove header weatherstrip entirely and that header strip must be in place during final installation procedures of top trim so that correct tension of installed trim is achieved.
- Remove tacks securing top and header outer weatherstrip to header (fig. 65).
- Remove screw securing trim hold cable and spring assembly to header.
- Pull cemented trim from rear side rail (Section C-C).
- Remove end caps from wire-on binding; remove tacks securing binding to #3 bow (View F.). See frame and linkage portion for bow identification.
- 6. Remove staples securing trim to #3 bow.
- Remove tacks securing upper ends of stay straps to #3 bow. Pads may be removed at this time, if desired. Mark position of pads and straps on head and #3 bow before removal.
- Disconnect rear bow from top frame assembly. Two screws retain at each side Figure 66.
- Remove trim-rear bow assembly from vehicle to clean work bench or table.
- Remove plastic filler from rear bow weatherstrip and pull weatherstrip and trim from rear bow.

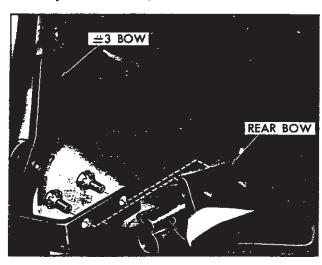


Fig. 66-Rear Bow Retaining Screws

Section A-A shows installed position of these components. Refer also to Figure 67.

Installation

- Find and mark center of header, #3 bow, rear bow and leading and trailing edges of top trim. Align these marks during installation and recheck their alignment from time to time while installation is in progress, especially during tacking or stapling.
- Assemble top trim and weatherstrip to rear bow, referring to Section A-A and Figure 67. Note that filler strip locks this assembly together and goes in last. Align center marks.
- If new pads are required, install at this time, aligning with marks made when old pads were removed.
 Figure 68 shows pad construction; Figure 69 shows pad installed.
- Install top trim-rear bow assembly on top frame with four screws removed at disassembly.
- Lock down rear bow in lesired "top up" position.
 Pull up stay straps and staple or tack to #3 bow (fig. 70).
- Using a piece of mechanics wire, fish trim hold down cable assembly through top pocket and secure spring cable assembly to header with a screw.
- Pull leading edge of trim up to header and align center marks. Smooth out fabric and clamp, tack or staple temporarily to header.
- 8. Draw window extension up to #3 bow, aligning centering marks. Turn an ample amount of fabric under and tack to #3 bow. Apply neoprene trim cement, GM Part #3695016 or equivalent, to area shown in View D of Figure 64. Follow directions on package.
- Draw roof portion of trim over #3 bow, align marks and tack on staple.
- 10. Trim off excess material and install wire-on binding

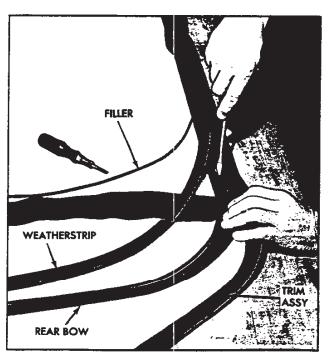


Fig. 67-Installing Trim and Weatherstrip to Rear Bow

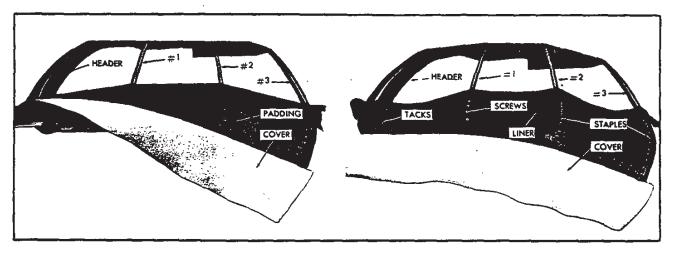


Fig. 68-Pad Construction

as shown in Figure 71 and View D of Figure 64. Install binding caps.

- Remove temporary clamps or fastenings holding trim to header.
- 12. With header locked down, pull trim assembly up tight and mark for final installation.
- 13. Apply trim cement to header and rear side rail.
- 14. Release header from windshield. Tack or staple trim to header (fig. 65).
- 15. Apply trim to rear side frame, previously cemented.
- 16. Install weatherstrips which were removed at disassembly and install retaining screws in header weatherstrip.
- 17. Install header trim panel.
- Make any adjustments necessary, following instructions listed under Folding Top—Adjustments.

FRAME AND LINKAGE

Figure 72 illustrates construction features of the folding top frame and linkage. Various cross sections in Figure 72 show the pivoting joints and their assembly.

If an operation is being performed which requires removal of folding top trim, follow directions in this section. The entire frame assembly may be removed and replaced as a unit. Follow instructions for Folding Top Trim and Rear Window Assembly and Top Assembly—Removal and Installation.

The pivoting joints should be lubricated with light machine oil once a year. Apply oil sparingly so as not to stain top trim.

WEATHERSTRIP

Side Rail Weatherstrip

Figure 73 illustrates installation of side rail weatherstrip which acts to seal window opening. The weatherstrip is held in place by loose screws which are part of the weatherstrip assembly, and by neoprene base cement which is applied between weatherstrip and side rail surface.

When replacing weatherstrip remove all rust, old cement and foreign material from the surfaces to be cemented, to assure successful bonding. Use only good



Fig. 69-Pad Installed

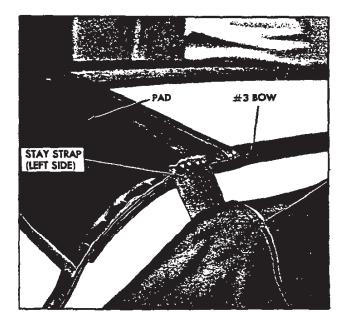


Fig. 70—Installing Stay Strap

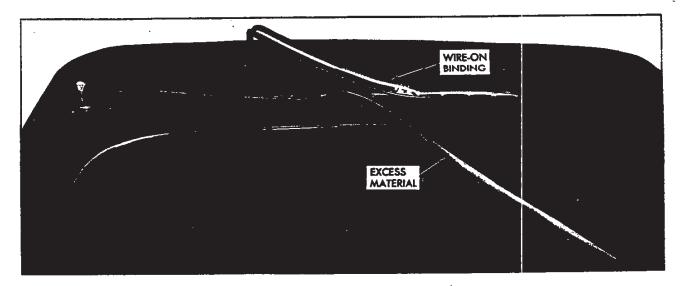


Fig. 71-Installing Binding

quality neoprene cement suitable for weatherstrip application.

Header Weatherstrip

Weatherstrip assembly is retained to the header panel by a combination of studs, and special fasteners as shown

in Figure 74 along with reoprene base weatherstrip cement.

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ROOF PANEL ADJUSTMENT (Fig. 75)

Each roof panel is adjusted in relationship to the other

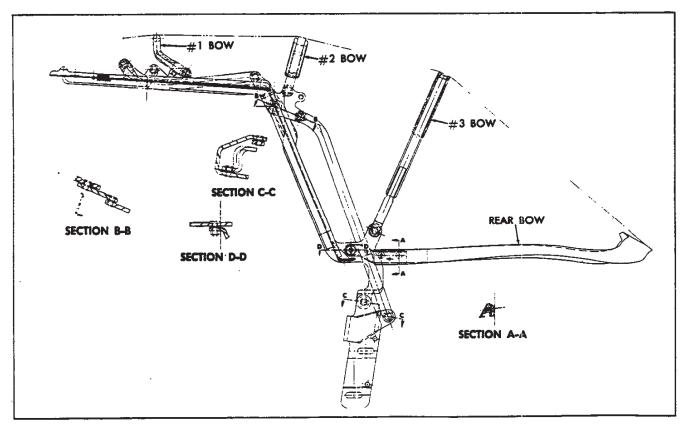


Fig. 72-Top Frame and Linkage

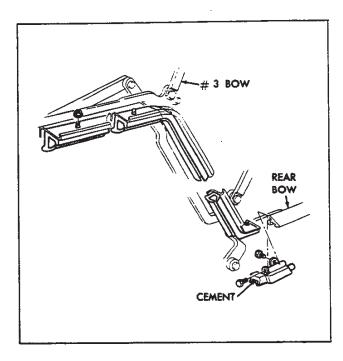


Fig. 73-Side Rail Weatherstrip

and to the header and roof crossover.

Roof panel inner edges are spaced parallel 1/16" to 3/16". The rear edges of the roof panel are spaced 1/8" to 1/4" side to side. The outboard edge of the roof panel to header spacing is determined by the triangular headed pin fastened to the roof crossover. The back edge of the triangular headed pin should measure 1/4" from the plate it screws into.

All latches and adjustments must be loose before starting the roof panel alignments. The only shimming possible is at the center guides.

Adjustment Procedure

 Remove roof panel and place upside down on a clean soft surface.

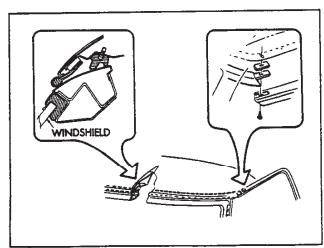


Fig. 74—Header Weatherstrip

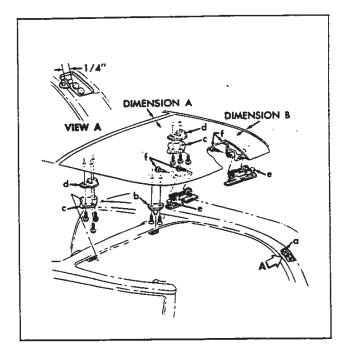


Fig. 75—Roof Panel Alignments

- Remove screw from each side of headlining panel and gently pry headlining loose from plastic retainers.
- Loosen screws on underside of roof panel at forward (b) and center guides (c).
- 4. Repeat steps 1-3 for opposite roof panel.
- Check dimension of triangular pin (a) on header panel at outer edges of the roof panel attachment locations. Refer to View A.
- Reinstall roof panels and observe spacing. The roof halves should meet within 1/16"-3/16" in the center (dimension A) and within 1/8"-1/4" to the header (dimension B).

NOTE: Contour of roof is controlled by shims (d) (no more than 4). It should be noted that the fewer shims used at this location, the more compression on the seating gasket.

7. Once dimensions A and B have been obtained by manipulating each roof panel with respect to one another and the header, tighten the screws securing the center and forward guides in the roof panels.

NOTE: If compression at the lock locations is needed, adjust bolts (e) accordingly. If point of contact of latch bolt needs adjustment loosen bolts (f) and move latch assemblies fore or aft as necessary.

- Align headlining with a 3/16" gap all around and push headlining panels upward with firm palm pressure at nylon retainers.
- Remove panels, make sure all nylon fasteners are engaged and reinstall headlining screws.
- 10. Reinstall roof panels on vehicle.

Weatherstrip Replacement (Fig. 76)

 Remove roof panel and place upside down on soft clean surface.

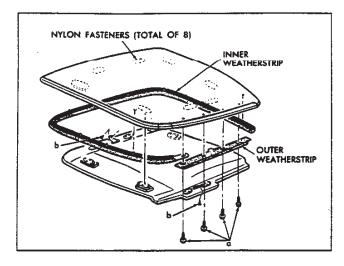


Fig. 76-Roof Panel Weatherstrips

Remove four (4) screws (a) retaining outer weatherstrip. Remove weatherstrip.

NOTE: Butt joints are rubber cemented to inner weatherstrip. Use care when separating.

- If inner weatherstrip is to be removed, proceed as follows:
 - a. Remove screw (b) on each side of headliner panel.
 - b. Pry headliner loose from nylon retainers at eight
 (8) locations. Remove headliner.
 - Pry out plastic buttons retaining weatherstrip to roof panel. Remove weatherstrip.
- 4. Clean old sealer off roof panel.
- 5. If inner weatherstrip was removed, perform the following:
 - a. Apply sealer to roof panel along the entire periphery of the roof panel where the inner strip is to lie.
 - b. Install new weatherstrip starting at screw attachment end engaging all plastic retainers. Push down along strip to uniformly spread the sealer. Apply rubber cement to butt joint ends.

NOTE: It may be necessary to cut the rearward end of weatherstrip to have it properly butt against outer weatherstrip.

- c. Reinstall headliner panel.
- Apply a 3/16" bead of sealer on the roof panel where outer weatherstrip will lie.
- Apply rubber cement to butt ends of the new outer weatherstrip and reinstall to roof panel with four (4) screws.
- 8. Reinstall roof panel.

INTERIOR QUARTER PANEL TRIM REMOVAL (Fig. 77)

- 1. Remove rear window.
- Gently pry off back window lower garnish molding (f) by pulling lower edge forward, then after unbooking nylon fasteners, lift up.
- Remove (right or left) rear roof trim panel latch cover (a) secured by screws.

- 4. Remove (right or left) rear roof trim panel (b).
- Remove (right or left) quarter trim panel secured by screws.

NOTE: Four (4) screws retaining forward lip of interior quarter trim panel are removed and installed from inside door jamb.

Install interior trim and rear window in the reverse order of removal.

CENTER ROOF REINFORCEMENT TRIM REMOVAL (Fig. 77)

- Remove both rear roof trim panel latch covers (a)-2 screws each.
- 2. Remove rear window.
- 3. Remove both rear roof panels (b) secured by screws.
- Remove left and right sun visor assemblies. Remove windshield upper garnish molding (c) secured by screws.
- Remove center roof trim screws. Pull assembly
 downward to release the attachment stud (e).
- Install interior trim in the reverse order of removal, then install rear window.

STORAGE TRAY

The storage tray which provides a means of storing rear window assembly when removed from vehicle, is replaced by removing hinge screws at rear body panel. The latch is adjusted by bending for proper engagement.

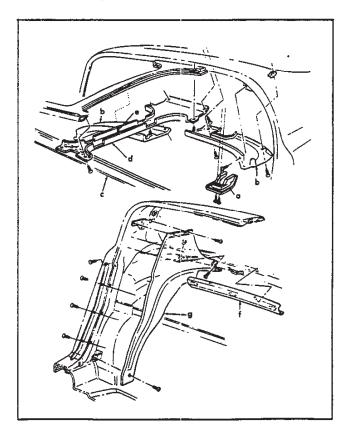


Fig. 77—Interior Quarter Trim

REAR WINDOW

Glass Replacement

To replace rear window glass, the following procedure is recommended.

- Remove rear window assembly from vehicle and place on bench.
- Remove lower frame member from old glass and frame assembly.
- Remove glass from upper frame member and clean out sealer by carefully scraping from groove around entire perimeter of frame.
- Apply bead of caulking material (polysuifide or equivalent) around slot of both frame components.
- 5. Insert replacement glass into curved frame member.

- Assemble frame by aligning lower member with plass.
- 7. Clean excess caulking material from surface of glass.

Adjustment

The locks and lower receiving plates which determine the holding force are adjusted to the extent of slotted mounting holes to attain an even, adequate seal.

Weatherstrip

The weatherstrip between the rear window assembly and rear body opening is replaced by cementing to rear inner body surface around opening. The weatherstrip is then screwed in place.

SPECIAL TOOLS

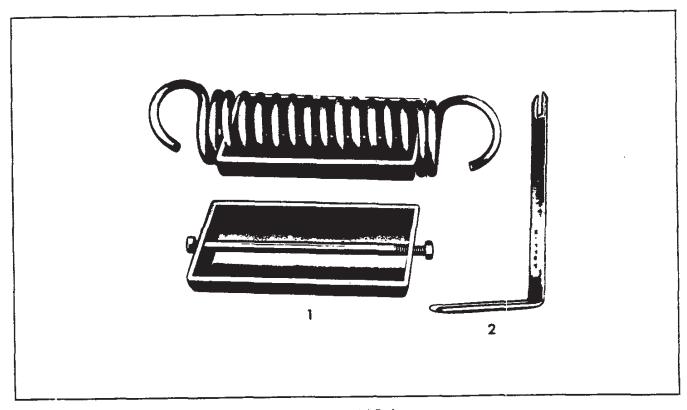
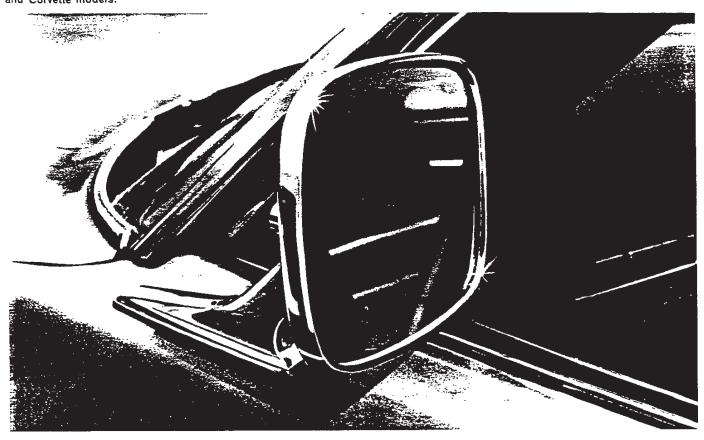
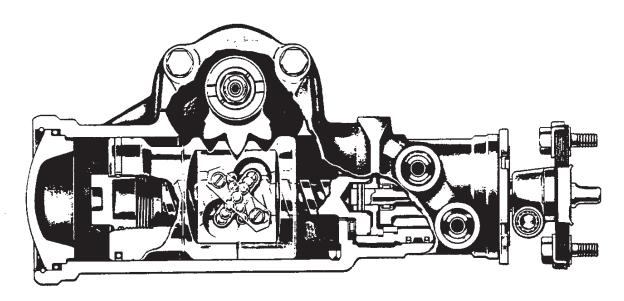


Fig. 78—Special Tools

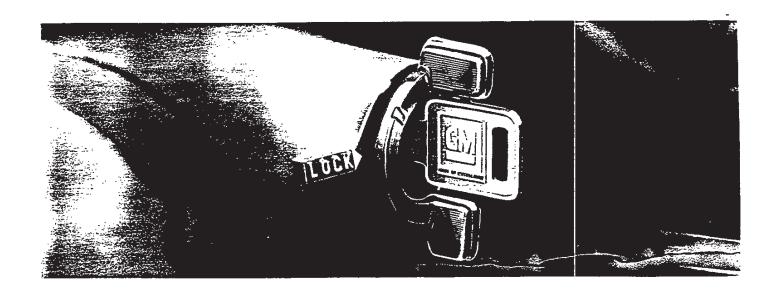
1. J-9559 Hood Spring Tool 2. J-7797 Door Handle Clip Remover New rectangular outside rearview mirror has larger mirror surface. Standard on all 1969 Chevrolet, Chevelle. Wagon, Camaro and Corvette models.

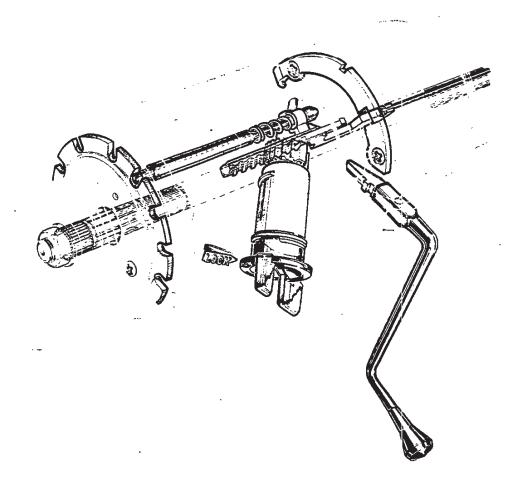




New variable-ratio power steering available for Caprice, Impala and Camaro models (RPO N40) contributes to more responsive maneuverability in turns as well as easier parking. Steering is

quicker and requires fewer turns without any increase in steering effort or change in straight-ahead road feel.



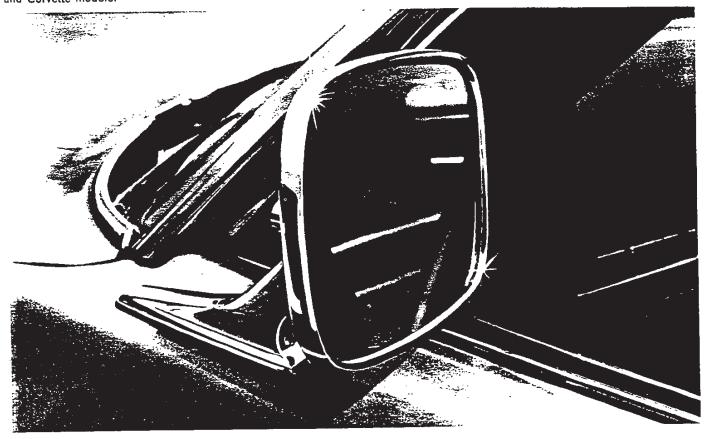


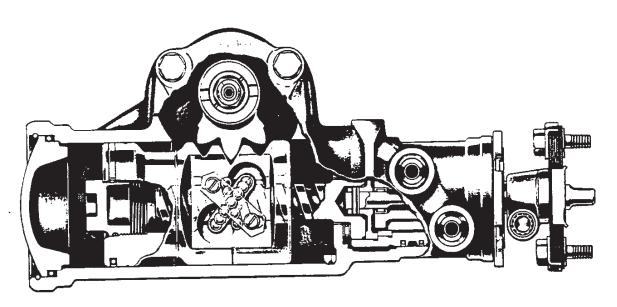
New anti-theft lock system is standard on all 1969 Chevrolet, Chevelle, Wagon, Camaro, Chevy Nova and Corvette models. Mechanism in steering column locks ignition, steering wheel and transmission selector simultaneously. New key design with larger head is easier to operate. Anti-theft key alarm on all 1969 models sounds a warning buzzer whenever driver's door is opened unless

key is removed or ignition is On.

New starter safety switch included with all 1969 transmissions (except Corvair manual-shift) permits the starter to operate only when the automatic transmission is in Neutral or Park or when the clutch pedal is depressed on manual-shift cars.

New rectangular outside rearview mirror has larger mirror surface. Standard on all 1969 Chevrolet, Chevelle. Wagon, Camaro and Corvette models.

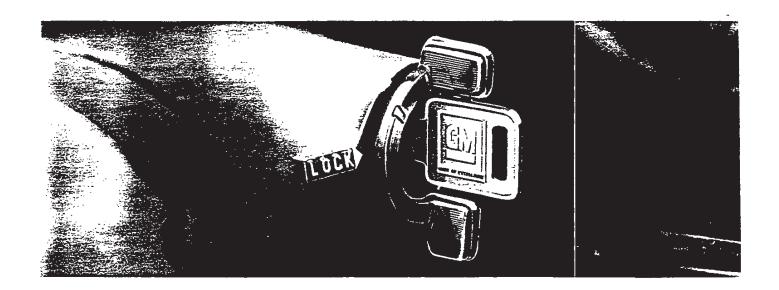


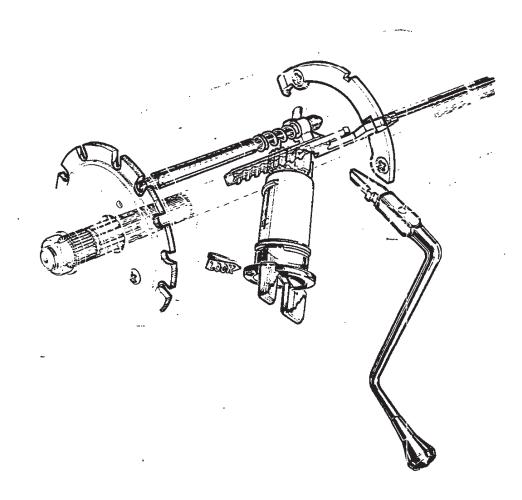


New variable-ratio power steering available for Caprice, Impala and Camaro models (RPO N40) contributes to more responsive maneuverability in turns as well as easier parking. Steering is

quicker and requires fewer turns without any increase in steerin effort or change in straight-ahead road feel.

2-SPECIAL FEATURES





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New starter safety switch included with all 1969 transmissions (except Corvair manual-shift) permits the starter to operate only when the automatic transmission is in Neutral or Park or when the clutch pedal is depressed on manual-shift cars.

Turbo Hydra-matic	4.Speed Close-Ratio		3-Speed Full Synchro
M40	X 21	M20	Brg
300 hp V8 390 hp V8 400 hp V8 435 hp V8	350-hp V8 390-hp V8 400-hp V8 435-hp V8	300 hp V8 350 hp V8 390 hp V8 400 hp V8	300 hp V8

SPECIFICATIONS

C#25			
			Power
17.6:1			Special Fast
17.6:1			Steering (latio (overall): Standard
20.2:1	:		
27.			W. III to wall
			Turning Diameter (feet): Curb-to-curb.
39.9		:	Tru Size: Sport Coupe and Convertible
. F70 x 15			()Kajiso
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0 00	300	:	Shoulder Room.
B B	66 9		Hip Hoom
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13.2	110	· · · · · · · · · · · · · · · · · · ·	Transfer of the state of the st
37.1	36.2		
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C Hills	1		Rear
59.4			Tread: Front
58.7		:	Collegations
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Conventible
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47.8			Width (ovorall)
69.0			Lungth (ovurall)
182.5	:		Wheelhase

Can Am While

Monza Red LeMans Blue (Brt)

976

Fathom Green (Dk) Daytona Yelfow

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÷		!	1	152	Tv.	CODE	EXTERIOR GOLDR	9 (18 8 P.)
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Saddle	Gunmelal	Red	Green	Bright Blue	Black			58.7 59.4
٦		RIRIN	INTERIOR					47.8 47.9
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'Ophonal at extra cost.

Cortez Silver
Burgundy

980 988 983

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i ×

Riverside Gold

Monaco Orange

Black vinyl cover (RPO CB8) available for removable hardtop Convertible folding top available in chaice of Black or Winto.

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3
Model
List
Factory
Mir's Sgt'd Div NVPC
Mir'e Sgt'd Betail*
Dest'n Charge
Total

 Until further advised, changes have been made in standard equipment from the standard
capupment shown in Sales literature and catalogs for 1969 pussenger car models. For pricing purposes add the prices for the following option to the model prices shown above. Hand Hostidians. A62 Lin \$17.00 D&H \$.95

 Manufacturer's Suggested Dealer New Vehicle Preparation Charge. Total \$17.95

*Does not include state and local taxes, license fees, options or accessories POPULAR OPTIONAL EQUIPMENT.

Description	FORGERS OF HOMAL EQUIPMENT &
Opt No.	MAL ENG
List Price	FRIENI+
Factory D&H	
Mir's Sgt'd Retail Delvr'd >	

POWER TEAMS

63.20	3.20	60.00	A31	Windows, Power
105.35	5.38	100.00	N40	Steering, Power (Power brakes recoin.)
42.15	2.15	40.00	J50	Brakes, Power
		i	ASSISTS	POWER
46.35	2.35	44.00	GS6	4.56 ralio
46.35	2.35	44.00	GSS	4.11 ratio
46.35	2.38	44.00	GS4	3.70 ratio
46.39	2.38	44.00	C195	3.55 ratio
5.35		3	CHI.	3. W rolla
16.35	<u>څ</u>	44.00 %	2	3.08 ratio
46.35	2.35	44.00	GSI	Axle, Positraction Rear -2.73 ratio
				Axlest
184.80	9.80	175.00	M21	4-Speed (Close-Ratio) — Avaitable with all optional VB engines
184.80	9.80	175.00	M20	4 Speed (Wide Range) – Available with 300-hp, 350-hp, 390-hp and 400-hp V8 engines
290.40	15.40	275.00	M40	With 435-hp V8
221.80	11.80	210.00	M40	Wills 300-, 390- or 400-hp V8
				Turbo Hydra-malic—
				Transmissions:
437.10	22.10	415.00	171	435-hp Corvelle 427 VB—Positraction axio, and Full-Transistor Ignition System reg'd
326.55	16.55	310.00	L36/L68	400 hp Corvette 427 V8—Positraction axle required
221.20	11.20	210.00	L36	390 hp Corvette 427 V8—Positraction axle required
\$131.65	\$ 6.65	\$125.00	L46	350-hp Corvette 350 V8.
				Engines:
			POWER TEAMS	POWER

♦Papakar Charredat undalbak optiona. Seri lation Charrolat Pisca Schiedisko in Track Data Book for completa bet of optional regionniment - State and healt force and includiated.

Description
s o
List
Factory D&H
Mir's Spt' Retail Delvr'd

OTHER OPTIONS

Wheel Covers.	Trim Combinations— Genuine Leather seats	Top, Senvertible White Black Beige	In addition to folding top	Top, Auxiliary—Removable hardtop In place of folding top	Steering Wheel, Till-Telescopic	Suspension, Special-Purpose Front and Rees—Includes special springs, matching shock absorbers, and special front and rear stabilizer bars. Available with 435-hp V8.	Speed Warning Indicator	Roof Cover, Viny1.—Black. Available when remayable auxiliary hardtop is ordered on Convertible.	Radios, Pushbutton—Includes antenna: AM-FM AM-FM with Stores	Paint, Exteriors - Solid colors	Louvers, Exont Fender	Ignision System, Full-Transistor Available only with optional V8 engines	Heater, Engine Block	Glass, Solt-Hay Tinted - All windows	Exhaust System - Side mounted	Defroster, Rear Window - Coupe only .	Belts, Custom Deluxe Shoulder— Convertible only—2 hout.	Alarm System, Audio	Air Conditioning, Four-Season
P02	:	BHB S	2 07	C07	N37	F41	018	C08	69/0/90 69		112	K66	K 05	101	N14	C50	Aus	UA6	C60
55.00	25.00	N.C.		N.C.	80.00	35.00	11.00	5 5.00	164.00 264.00	N.C.	20.00	77.00	10.00	16,00	140.00	31.00	40,00	25.00	\$407.00
2.95	4.00	N.C.	12.80	N.C.	4.30	1.90	.60	2.95	8.75 14.10	N.C.	1.10	4.10	.55	.90	7.45	1.65	22 55	1.35	\$21.70
57.95	79.00	N.C. E	252.80	N.C.	84.30	36.90	11.60	57.95	172.75 278.10	N.C	21.10	81.10	10.55	16.90	147.45	32.65	42 15	26.35	\$428.70

OPTIONAL TUBELESS TIRES-Factory Installed

Replacing 270 x 15 2-ply Special Nylon Blackwall. F70 x 15 2-ply White stripe nylon PT7	lackwall. PT7	30. 00	1.30	31.30
F70 x 15 2-ply White stripe nylon	PT7	30.00	1.30	
F70 x 15 2-ply Red shipe nylon	PT6	30.00	1.30	

♦Pegalar Chevrolet mutaffed epitema. See letted Chevrolet Proce Schodule or Track Data Book for complete let of optional equipment • State and keed tereo not no bobb

Corvette Exterior Features

- · Precision-molded black grille
- · Concealed headlights with built-in washers
- Front bumper guards
- White lenses over amber parking/direction signal lights
- Special high-domed hood (427 V8 engine only)
- · Bright license plate frames
- Functional front fender louvers
- Windshield molding
- Hide-A-Way windshield wipers with built-in washers
- · Full door-glass styling
- Rectangular outside rearview mirror
- Wide-oval F70 x 15 tires and 15 x 8 wheels
- Body sill moldings
- · Wheel trim rings and center caps
- Side marker lights-front and rear
- Bright roof drip and rear window molding (Sport Coupe only)
- · Flush-mounted door handles
- Removable roof panels and rear window (Sport Coupe only)
- Astro Ventilation outlet grilles on rear deck
- Twin-unit taillights/back-up lights with bright bezels
- . Bright exhaust outlet extensions and frames
- Wraparound rear bumper with built-in guards



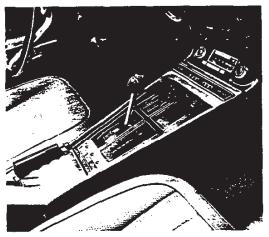
Standard wheel trim ring and center cap



Full wheel cover (RPO PO2)

Corvette Interior Features

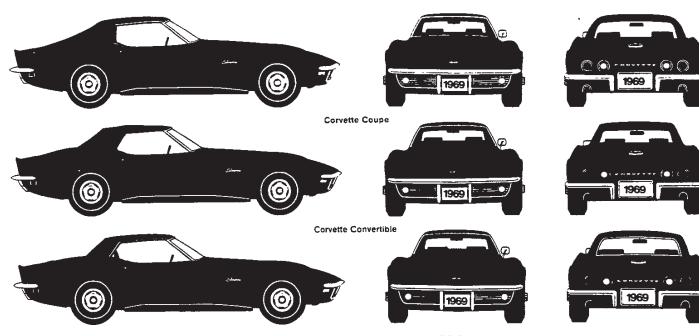
- · Luxurious all-vinyl bucket seat interior
- Sport-styled steering wheel with black rim and horn button
- Astro Ventilation system with adjustable vent-ports on instrument panel
- Convenient aircraft-type center console
- 7000-rpm tachometer
- Trip odometer
- Ammeter, temperature, fuel and oil pressure gauges
- · Light monitoring system alert panels
- Seat belt, door ajar and headlight position indicators
- Electric clock
- . Molded door panels with built-in armrests
- . Door pull handles
- Convenient map pocket
- · Extra-thick foam seat cushions
- · Special bright pedal trim
- Courtesy light with automatic door switches
- · Cigarette lighter in ashtray on console
- · Color-keyed deep-twist carpeting
- Carpeted stowage compartment behind seats
- Fitted stowage cover for removable roof panels
 ... plus all Corvette standard convenience and security features.



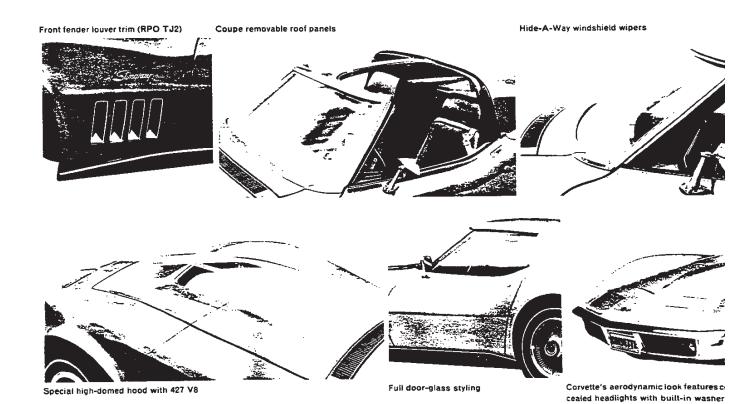
Center console with convenient parking brake control



EXTERIOR FEATURES AND IDENTIFICATION



Corvette Convertible with removable hardtop (RPO C07)



CORVETTE SAFETY AND SECURITY FEATURES FOR '69 INCLUDE . . .

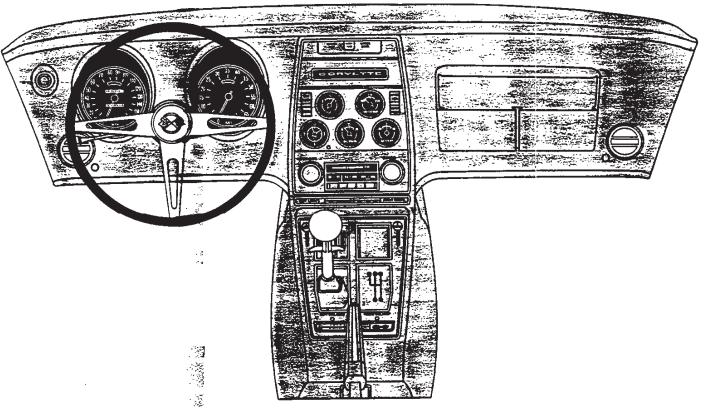
- Energy-absorbing steering column
- Seat belts with pushbutton buckles for all passenger positions
- Shoulder belts with pushbutton buckles and special storage provision for driver and right front passenger (except convertible)
- Two front seat head restraints
- Passenger-guard door locks
- Four-way hazard warning flasher
- Dual master cylinder brake system with warning light and corrosion-resistant brake lines
- Folding seat back latches.
- Dual-speed windshield wipers and washer
- Dual-action safety hood latch
- Outside rearview mirror
- Back-up lights
- Side marker lights and parking lights that illuminate with headlights
- Energy-absorbing instrument panel, padded sun visors
- Reduced-glare instrument panel top, inside windshield moldings, horn button, steering wheel hub, and windshield wiper arms and blades
- Wide inside day-night mirror with deflecting base
- Lane-change feature in direction signal control
- Safety armrests
- Thick-laminate windshield
- Soft, low-profile window control knobs
- Smooth contoured door and window regulator handles
- Anti-theft ignition key warning buzzer
- · Anti-theft ignition, steering and transmission lock
- Starter safety switch on all transmissions
- Tire safety rim
- · Safety door latches and hinges
- Uniform shift quadrant
- Snag-resistant steering wheel hardware
- · Non-projecting wheel nuts, discs and caps
- Improved fuel tank retention
- Headlight aiming access provision
- Contoured windshield header (except convertible)
- · Fail-safe feature on concealed headlights

1969 Corvette Color and Trim Choices

						INTERIC	R TRIM C	OLOR A	ND CODE				
		В	lack	Brigh	nt Blue	Gı	reen	F	red	Gun	metai	Sar	ddle
	Type of Seat	Vinyl	Leather	Vinyl	Leather	Vinyl	Leather	Vinyl	Leather	Vinyl	Leather	Vinyl	Leather
Coupe & Convertible	Bucket	ZQ4	402	411	412	427	428	407	408	416	417	420	421

EXTERIOR COLOR	CODE		·				,
Tuxedo Black	900	•	•	•	•	•	•
Can-Am White	972	•	•	•	•	•	•
Monza Red	974	•			•		•
Le Mans Blue	976	•	•				<u> </u>
Monaco Orange	990	•					
Fathom Green	983	•		•			<u> </u>
Daytona Yellow	984	•					
Cortez Silver	986	•	•	•	•	•	<u> </u>
Burgundy	988	•					•
Riverside Gold	980	•				<u> </u>	<u> </u>

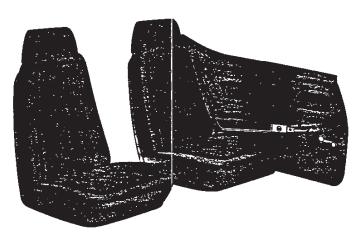




Corvette instrument panel includes adjustable vent-ports for Astro Ventilation system and sport-styled steering wheel



All-vinyl bucket seat interior



Ultra-luxurious leather seat trim available at extra cost

1969 Corvette Options and Prices*

	· · · · · · · · · · · · · · · · · · ·		PRIC	
Description		\$	\$	
00-hp Turbo-Fire 350 V8)				
19437 Corvette Coupe				
19467 Convette Convertible		•		
With manually operated soft top				
* Manufacturer's Suggested Retail Price does not include state and	ocal taxes	, license fees, c	ptions or ac	cessories.
Description	RPO		PRIC	<u> </u>
	Number	\$	\$	
POWER TEAMS				
Engine:				
350-hp Turbo-Fire 350 V8	L46			
390-hp Turbo-Jet 427 V8-Available only when Positraction axle is ordered	L36			
400-hp Turbo-Jet 427 V8-Available only when Positraction axle is ordered	L36/L68			
435-hp Turbo-Jet 427 V8—Available only when Positraction axle and full-transistor ignition system are ordered	L71			
Transmission:				
Turbo Hydra-Matic	•			
With 350-cuin, engines	M40			
With 427-cuin. engines	M40			
4-Speed Fully Synchronized (Wide-Range)	M20			
4-Speed Fully Synchronized (Close-Ratio)	M21			
Axle, Positraction Rear:				
2.73 ratio	GS1			
3.08 ratio	G\$2			
3.36 ratio	GS3			
3.55 ratio	G95			
3.70 ratio	GS4			
4.11 ratio	G \$ 5			
POWER ASSISTS	150			
Brakes, Power	J50			
Steering, Power: (Power brakes recommended)	N40	•		
Windows, Power:	A31			***********

Vinyl Roof Cover Color Choice (RPO CO8)

Available for removable hardtop (RPO CO7) in black only with all exterior colors.

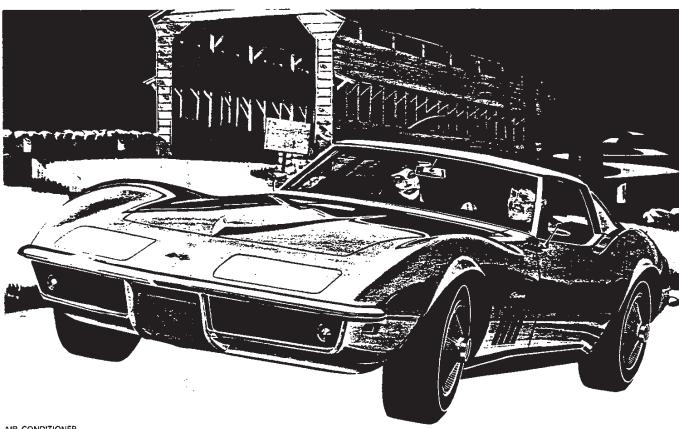
Convertible Top Colors

Choice of white, black or beige convertible top available with all exterior colors.

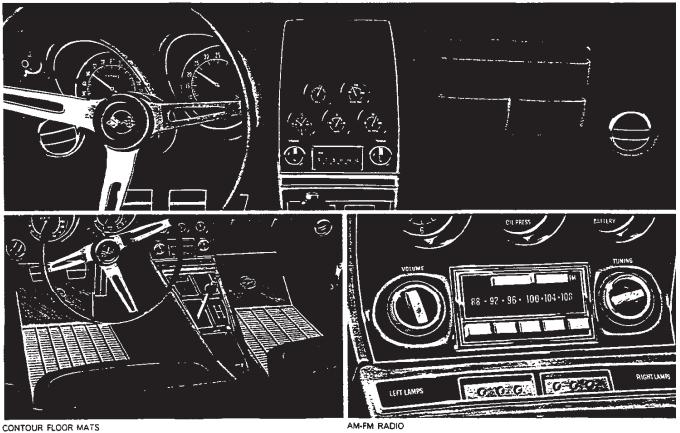
Seat and Shoulder Belt Colors

Interior Trim Color	Standard Style Beits*
Black	Black
Blue	Dark Blue
Green	Green
Red	Red
Gunmetal	Gunmetal
Saddle	Saddle

^{*}Color-keyed belts and buckles.



AIR CONDITIONER



1969 Corvette Options and Prices

	RPO	PRIC	<u>E</u>
Description	Number	\$	B
OTHER OPTIONS			• .
Air Conditioning, Four-Season	C60		
Alarm System, Audio	UA6		
Belts, Shoulder Custom Deluxe: (Convertible only)			
Driver and passenger	A85		
Defroster, Rear Window	C50		
Exhaust System: Side-mounted	N14		
Glass, Soft-Ray Tinted: All windows	A01		
Heater, Engine Block	K05		
Ignition System, Fuli-Transistor: Available only when optional engine is ordered	K66	•••••	************
Louver Trim, Front Fender	TJ2		
Radio: (Includes fixed height rear antenna)			
AM-FM pushbutton control	U69		
AM-FM stereo pushbutton control	U69/U79		**********
Roof Cover, Vinyl: Black; Model 19467 with auxiliary top only	C08		
Speed Warning Indicator	U15		************
Special Purpose Front and Rear Suspension: Includes special springs, matching shock absorbers and special front and rear stabilizer bars. Available only when 435-hp engine is ordered	F41		
Steering Wheel, Tilt-Telescopic	N37		
Top, Auxiliary: Hard top; Model 19467 only			
In place of folding top	C07		
In addition to folding top	C07		
Top, Folding: Model 19467 only. All tops available with all exterior			
colors Black	ВВ		
White	AA		
Beige	DD	**************	
Trim Combinations: See Color and Trim section			
Genuine leather seats	• • •		
All other trims	• • •	,	
Wheel Covers: (4)	P02		
ACTORY-INSTALLED REGULAR PRODUCTION TUBE	ELESS T	rires	
Replaces (5) F70-15 Blackwall	(E		
(5) F70-15 Red Stripe	PT6		
(5) F70-15 White Stripe	PT7		

1969 Corvette Engine Specifications

GENERAL SPECIFICATIONS	300-hp Turbo-Fire 350 •	350-hp Turbo-Fire 350	390-hp Turbo-Jet 427	400-hp Turbo-Jet 427	435-hp Turbo-Jet 427
Displacement .	350 c u	ı. in.		427 cu. in.	
Bore and Stroke	4.0" x	3.48"		4.25" x 3.76"	
HP @ RPM	300 @ 4800	350 @ 5600	390 @ 5400	400 @ 5400	435 @ 5800
Torque @ RPM (lbs. ft.)	380 @ 3200	380 @ 3600	460 @	3600	460 @ 4000
Compression ratio	10.25:1	11.0:1	10.2	25:1	11.0:1
Carburetion		4-barrel		Triple	e 2-barrel
Fuel requirement			Premium		
Camshaft type	General performance		High performance	-	Special performance
Valve lifters		Hydra	nulic		Mechanical
Exhaust			Dual		

BASIC DESIGN

Engine typ	e		V8—Valve-in-head						
Exhaust en	nission control	Air Injection Reactor System							
Cylinder bl	lock		(ast alloy iron*					
Cylinder h	eads		with precision-cast Cast alloy iron**		lloy iron**				
Crankshaft		Cast nodular iron	·	Forged alloy steel†					
Main bearings		Steel-backed replaceable insert type (premium aluminum on all except 300-hp V8)							
Pistons		Cast aluminum alloy	impact-extruded aluminum alloy	Cast aluminum alloy	Impact-extruded aluminum alloy				
	Тор	Chrome-p	lated	Molybdenum-infay					
Piston Rings	Second	Wear-resistar	nt coated	Chrome-plated					
-	Oil control		Three-piece (two chro	romed rails and one spacer-expander)					
Connecting rods			Forged alloy steel	Forged high-alloy steel					
Flywheel		1	Machined cast alloy iron with mar	ual transmissions, pressed stee	with automatic				

FUEL SYSTEM

Intake manifold	Cast alloy iron++	Cast alloy aluminum††		
Carburetor type	4-barrel	Triple 2-barrel		
Choke	Automa	tic		
Air cleaner	Oil-wetted paper element	Oil-wetted polyurethane element		
Fuel pump	Camshaft-driven mechanical pulsator-type			
Fuel filters	Dual filtration system—paper filter in carburetor, fine-mesh fuel strainer in tank‡			

^{*}Extra-thick bulkheads above each bearing support for greater strength and more rigid crankshaft support.

**With alternately spaced inlet and exhaust valve ports and precision-formed modified-wedge combustion chambers.

†Specially hardened main and connecting rod journals on 435-hp V8.

†#8-port design; extra-large ports on optional V8s.

‡Triple filtration system plus vapor return line to fuel tank on 400- and 435-hp V8s. Includes large in-line fuel filter in addition to carburetor and fuel tank filters.

Transmissions

TRANSMISSION	ENGINES	TRANSMISSION GEAR RATIOS (:1)					
NUICCIMCNAN	ENGINES	1	2	3	4 .	R	
3-SPEED FULLY SYNCHRONIZED (STANDARD)	300-hp V8	2.54	1.50	1.00		2.63	
4-SPEED FULLY SYNCHRONIZED (RPO M20)	300-hp V8 350-hp V8 390-hp V8 400-hp V8	2.52	1.88	1.46	1.00	2.59	
4-SPEED FULLY SYNCHRONIZED (RPO M21)	350-hp V8 390-hp V8 400-hp V8 435-hp V8	2.20	1.64	1.27	1.00	2.26	
TURBO HYDRA-MATIC (RPO M40)	300-hp V8 390-hp V8 400-hp V8 435-hp V8	Drive (maximum) 5.21:1 to 1:1 Low 2 5.21:1 to 1.48:1 Low 1 5.21:1 to 2.48:1 Reverse 4.37:1 to 2.08:1					

Clutches for Corvette 3- and 4-Speed Transmission Power Teams

		300- & 350-hp	390- & 400-hp	435-hp		
Туре		Semi-centrifugal bent-finger-design diaphragm spring with single dry disc—pearlitic or nodular iron pressure plate (dual dry discs with heavy-duty clutch)				
Disc Facing Material			Premium grade woven asbestos			
Disc Facing Outside Diameter	Standard		11.00*			
	Heavy-Duty*		_	10.00*		
Disc Facing	Standard		123.70			
Total Area (sq. in.)	Heavy-Duty*		-	201.06*		
Spring Effective Plate Load (lbs.)	Standard	245	0-2750	2600-2800		
	Heavy-Duty*		_	1400-1600		

^{*}RPO MA6—Heavy-Duty Clutch (dual disc). Required with 435-hp V8 and 4-speed transmission when 3.36:1 axle ratio is specified.

Equipment Included With Optional* V8 Engines
Important equipment is included with optional* 350- and 427-cu.-in. V8 engines, supptementing or replacing equipment included with the standard 300-hp 350-cu.-in. V8 engine. Other specialized equipment is also available (see Options and Prices section).

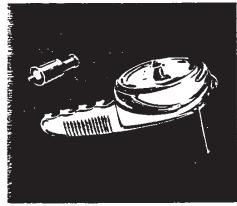
	350-hp Turbo-Fire V8	390-hp Turbo-Jet V8	400-hp Turbo-Jet V8	435-hp Turbo-Jet V8
Special hood		•		•
Heavier duty front springs		•	•	•
Heavier duty front stabilizer bar		•	1	•
Heavier duty rear wheel spindle support arms		•	(3)	•
Rear suspension stabilizer bar		•	19	•
Heavier duty clutch		<u> </u>		•
Larger capacity radiator		•	•	•
Dual crankshaft, water pump and fan pulleys	•	•		•
Finned aluminum valve rocker covers	•			-
Full-transistor ignition system	•	•	•	(a)
Chrome-finish valve rocker cover		•	•	•
Higher performance starting motor		•		•
Large in-line fuel filter and vapor return line to fuel tank			•	•

1969 Corvette Power Teams

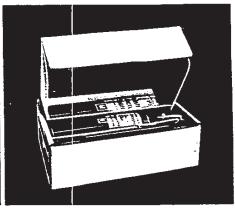
ENGINES / TRANSMISSIONS / AXLE RATIOS

		DEAD AVIE				REAR AXL	LE RATIO			
ENGINE	TRANSMISSION	REAR AXLE	,	Without Air C	Conditioning	3		With Air Co	nditioning	
		APPLICATION	Standard	Economy†	Perform- ance†	Special†	Standard	Economy†	Perform- ance†	Special
	3-Speed (2.54:1 Low)	Ali models					2001	200.10		
STANDARD ENGINE 300-HP TURBO-FIRE 350 350-CUIN. V8	4-Speed (2.52:1 Low)		3.36:1	3.08:1*			3.36:1	3.08:1*		
	Turbo Hydra-Matic	All models	3.08:1*				3.08:1*			
RPO L46 350-HP TURBO-FIRE 350 350-CUIN. V8	4-Speed (2.52:1 Low)	All models	3.36:1		3.55:1*		3.36:1		3.55:1*	
	4-Speed (2.20:1 Low)	All models	3.70:1		4.11:1*		3.70:1		4.11:1*	
	4-Speed (2.52:1 Low)	All models	3.08:1*		3.36:1*		3.08:1*			
RPO L36 390-HP TURBO-JET 427 427-CUIN. V8	4-Speed (2.20:1 Low)	Ail models	3.36:1*	3.08:1*	3.55:1*	3.70:1*	AIR CONDITIONING NOT AVAILABLE			
	Turbo Hydra-Matic	All models	3.08:1*	2.73:1*			3.08:1*	2.73:1*		
	4-Speed (2.52:1 Low)	All models	3.08:1*		3.36:1*		3.08:1*			
RPO L36/L68 400-HP TURBO-JET 427 427-CUIN. V8	4-Speed (2.20:1 Low)	All models	3.36:1*	3.08:1*	3.55:1*	3.70:1*		AIR CONDITIONING NOT AVAILABLE		
	Turbo Hydra-Matic	All models	3.08:1*	2.73:1*			3.08:1*	2.73:1*		
RPO L71 435-HP TURBO-JET 427	4-Speed (2.20:1 Low)	All models	3.55:1*	3.36:1**	3.70:1*	4.11:1*		AIR CONDITIONING NOT AVAILABLE		
427-CUIN. V8	Turbo Hydra-Matic	All models	3.08:1*	2.73:1*	3.36:1*					

Note: Positraction rear axle available with all axle ratios. †Available at extra cost—see Options and Prices section. *Available as Positraction axle only. *Heavy-Duty Clutch (RPO MA6) required.





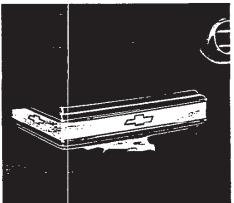


HAND PORTABLE SPOTLIGHT

LOCKING GASOLINE TANK CAP

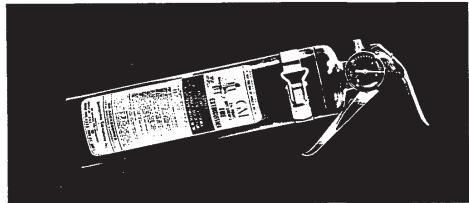
HIGHWAY EMERGENCY KIT





LUGGAGE CARRIER

TISSUE DISPENSER





FIRE EXTINGUISHER

GM CHILD SEAT



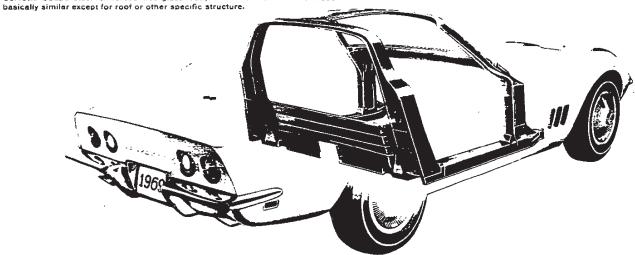


LITTER CONTAINER

AUTO COMPASS

Corvette Body Features

Corvette Coupe steel-reinforced fibergiass body illustrated. Convertible model

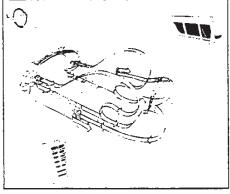


Power-operated retractable dual headlights controlled by headlight switch on instrument panel—feature built-in washers for convenient cleaning.





Corvette concealed outside door latches.



Astro Ventilation system . . . standard on both models . . . contributes to greater passenger comfort with improved ventilation and air distribution. Pressurized outside air enters the passenger compartment through ball-type vent-ports on the instrument panel and low-level cowl side vents. All four outlets can be adjusted individually to regulate air flow. Interior air flow continues into the passenger compartment and is exhausted through pressure relief valves built into the rear deck.





Spare tire stowage compartment with key lock located in



Coupe carpeted interior luggage compartment. Convertible similar except for folding top stowage.



Coupe rear window is easily removed and stored in rear compartment.



Coupe removable roof panels.

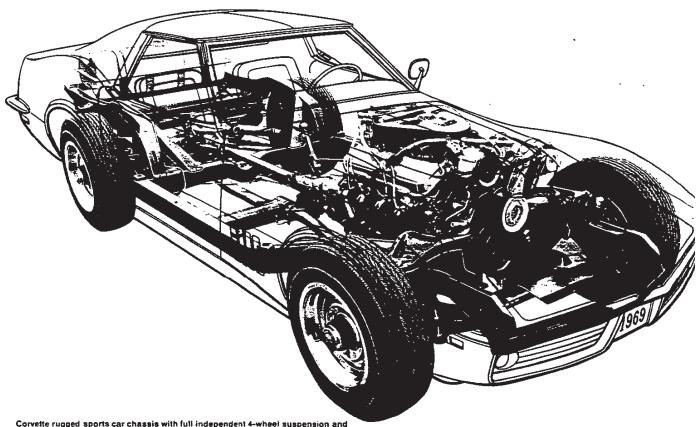
16-CORVETTE

CORVETTE BODY FEATURES

1969 Corvette Engine Specifications

VALVE SYSTEM	300-hp Turbo-Fire 350	350-hp Turbo-Fire 350	390-hp Turbo-Jet 427	401)-hp Turbo Jet 427	435-hp Turbo-Jet 427			
Гуре		Valve-in-head with independent operating mechanism for each valve						
'alve guiges/seats	Machined in cy	rlinder heads	Pressed-in	valve guides; seats machi	ned in heads			
niet valves	Ailoy :		Alloy :	steel with aluminized face	and head			
xhaust vaives	High alloy steel wit	High alloy steel with aluminized face High alloy steel with aluminized face and head						
Rocker arms		Pressed steel with ball and socket mounting						
Push rods	Tubula	steel	Tubular steel w	ith hardened ends	Tubular steel with hardened steel inse			
Camshaft material		Wea	r-resistant-coated cast allo	y iron				
Camshaft bearings			5-steel-backed babbitt					
Camshaft drive		(Chain-driven from cranksh	aft				
EXHAUST SYSTEM								
Туре			Dual 2.0" system					
Exhaust manifold/s			Cast alloy iron 4-port desi	gn				
Muffler design		Oval reverse	-flow type, rolled lock sea	m construction				
and construction			(A)					
Resonators			None					
ELECTRICAL SYSTEM								
Battery			it, 63-ampere-hour energi					
Generator		42-ampere Delcotron dioc	le-rectifying type with inte	gral micro-switch regulate)r			
Starter		Posi	tive-engagement high-torq	ue type				
Distributor	Single-t	Single-breaker type with combination centrifugal and vacuum advance (B)						
Ignition coil			12-volt, hermetically seal	ed				
Ignition wiring		Non-metail	ic high-tension cable, neop	rene insulated				
Spark plugs	ACR	44 S		ACR 43 N				
COOLING SYSTEM								
Туре	P	ressurized liquid system v	oth full-length water jacke	ets surrounding cylinder ba	rrels			
Radiator		Cros	s-flow type with 15-lb. pre	ssure cap*				
Radiator frontal area	315 :	iq. in.		467 sq. in.				
Water pump		Centrifug	al type with sealed double	-row bearing				
Water pump capacity	57 ga	L/min.		82 gal./min.				
Thermostat			Pellet type					
Fan	T	emperature-controlled, 5-b	lade, 17.5" diameter with	thermo-modulated clutch	drive			
Water pump/fan drive	Single-belt drive from crankshaft pulley		Double-belt drive	from crankshaft pulley				
LUBRICATION SYSTEM								
Туре			Controlled full-pressure sy	stem				
Oil filter		· Fo	ull-flow throwaway caniste	r type				
Oil pump			Gear type with fixed inta	ke				
Oil pressure (normal)	30-45 p.s.i.	30-45 p.s.i. @ 1500 r.p.m. 50-75 p.s.i. @ 2000 r.p.m.						
Refill capacity (qts.)	4 quarts (5 with	filter replacement)	5	quarts (6 with filter replac	cement)			
Crankcase ventilation			Closed-positive type					
*Aluminum cross-flow type rad 427-cuin. V8s.	iator with 350-cuin. V8s; coppers steel heads and body with alum		Left side muffler: alumi Stainless steel tailpipes. Full-Transistor Ignition S					

Corvette Chassis Specifications



Corvette rugged sports car chassis with full independent 4-wheel suspension and rigid all-welded ladder-type frame.

Frame

All-weided 5-crossmember ladder-type frame with trapezoidalshaped sidemembers framing passenger area and extending forward forming engine support. Box-section design sidemembers from kickup rearward support axle and suspension.

Front Suspension

Independent coil spring spherical joint suspension with concentric springs and shock absorbers between frame and lower control arms. Built-in anti-dive control and rubber-bushed link-type stabilizer bar. Spherical joints protected by special positive-sealing formed-rubber boots.

Rear Suspension

Independent rear suspension with frame-mounted differential unit, double universal jointed tubular axles, and transverse multi-leaf spring. Differential carrier is mounted to frame by rubber-isolated crossmember. Nine-element transverse leaf spring with hardened and tempered chrome carbon steel leaves bolts solidly to differential carrier and attaches to radius arms with rubber-isolated floating rods. Suspension design permits

spring to function as springing member only. Lateral and long tudinal forces imposed by braking, acceleration, and cornering are controlled by radius rods attached to frame-mounted differntial and suspension control arms.

Shock Absorbers

Direct, double-acting, sealed-unit hydraulic shock absorbe with special aeration-preventing freon bag in fluid reservoir. Fro shock absorbers concentrically located within coil springs at attached to lower control arms and frame crossmember. Re shock absorbers mounted between wheel spindle supports at frame.

Steering System

Balanced system with relay-type linkage, low-friction Ball-Rasteering gear and energy-absorbing steering column desig Jointed, cushioned coupling at steering gear shaft to help cushioned shock and vibration. Overall steering ratio: standard steering—20.2:1 (linkage may be adjusted for special fast over steering ratio—17.6:1); power steering—17.6:1. Steering whe diameter—16 inches. Steering wheel turns stop to stop: standard 3.4, with power steering and special fast ratio—2.9.

Body Structure

- Corrosion-proof fiberglass body . . . lightweight, high-strength, impact-resistant fiberglass construction with fabricated-in steel structural members.
- Integrally bonded cowl structure formed of air ventilation plenum chambers, dash panel and one-piece underbody structure.
- Steel-reinforced body sills, door hinge pillars and lock pillars, plus lateral steel crossmember integrating front pillars. Coupe roof structure features supporting members to enclose the passenger compartment with protective steel framing.
- Contoured windshield header (except convertible)
- Dauble-panel door construction with steel door lock and hinge reinforcements.
- Convertible top folds for stowage beneath double-locking spring-loaded cover panel.
- Double-panel reinforced front-hinged hood with telescoping automatic latch support.
- Roomy inside luggage compartment behind front seats with concealed stowage space for tools and small valuables.
 Carpeted floor panels in forward end of compartment bridge drive-line tunnel forming flat load area. Vertical riser protects seatbacks from possible luggage damage.

Body Mounting

 Coupe body attached to frame at six points with special bolts and double-cushioned rubber mounts. Convertible body is solidly attached to the frame at eight points with four rubber and four hard fiber-composition mounts and special bolts.

Weathersealing

- Flush-mounted windshield bonded to body for more positive sealing.
- Convertible hardtop rear window formed rubber seals.
- Positive-sealing formed rubber Convertible folding top and hardtop seals at windshield, door-glass edges, and at body mounting surfaces.
- Double-sealing removable roof panel weatherseals on Coupe.
- · Formed rubber Convertible door weatherseals.

Plus all these quality features

- Energy-absorbing instrument panel with padded upper surface
- Padded sun visors
- Outside rearview mirror
- Back-up lights
- Energy-absorbing steering column and wheel
- Lane-change feature incorporated in direction signal
- Wide inside day-night mirror with deflecting base
- · Side marker lights-front and rear
- Soft, low-profile window control knobs
- Head restraints
- Seat belt retractors
- · Passenger-guard door locks
- · Shoulder beits on Coupe
- · Thick-laminate windshield
- Removable roof panels and rear window for Coupe
- Door handles shielded by armrests
- Dual-speed electric windshield wipers
- Windshield washer
- Reduced-glare instrument panel and windshield wiper arms and blades
- Safety door latches and hinges

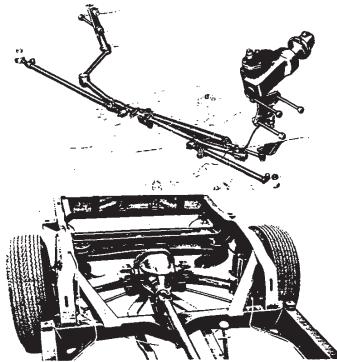
- Hide-A-Way windshield wipers with built-in washer nozzles concealed beneath power-operated cowl panel
- · Four-way hazard warning flasher
- Power-operated fail-safe concealed headlights
- Headlight washers
- High-level ventilation system
- Astro Ventilation system and full door-glass styling
- Built-in blended-air heater and defroster system with vacuumpowered air control
- Magic-Mirror acrylic lacquer finish
- Curved solid tempered plate glass side windows
- Tempered solid plate glass Coupe rear window
- Two-key lock system with keyless door locking
- Seat belts with pushbutton buckles
- · Concealed outside door handles
- Weather-shielded key locks
- Foam and fiber padded vinyl headlining
- Rear compartment stowage wells
- · Scuff-resistant plastic cowl side panels
- Full-view instrument panel and console with aircraft-type instrumentation

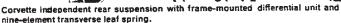
1969 Corvette Specifications

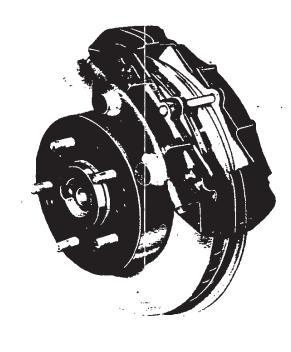
EXTERIOR DIMENSIONS	COUPE	CONVERTIBLE
Wheelbase	98.0	98.0
Length (overall)	182.5	182.5
Width (overall)	69.0	69.0
Height (loaded)	47.8	47.9
Front Tread	58.7	58.7
Rear Tread	59.4	59.4
Road Clearance (min.)	4.9	4.9
INTERIOR ROOMINESS		
Head Room	36.2	37.1
Leg Room	43.0	43.0
Hip Room	48.8	48.8
Shoulder Room	46.9	46.9
Entrance Height	29.0	29.0
LUGGAGE COMPARTMENT		<u> </u>
Total Volume (cu. ft.)	N.A.	N.A.
Usable Luggage Space (cu. ft.)	N.A.	N.A.
GLASS AREA		
Windshield Glass Area (sq. in.)	N.A.	N.A.
Rear Window Glass Area (sq. in.)	N.A.	N.A.
Total Glass Area (sq. in.)	N.A.	N.A.
TIRE SIZE & STEERING SPECIFICATIONS		
Standard Tire Size	F70 x 15	F70 x 15
Turning Diameter—Curb-to-Curb (ft.)	39.9	39.9
Turning Diameter—Wall-to-Wall (ft.)	N.A.	N.A.
Steering Ratio—Standard (overall)	20.2:1	20.2:1
Steering Ratio—Special Fast Ratio (overall)	17.6:1	17.6:1
Steering Ratio—Power (overall)	17.6:1	17.6:1
FUEL CAPACITY & WEIGHT		
Rated Fuel Tank Capacity (gallons)	20	20
Curb weight—Standard V8 (lbs.)	3245	3250
Shipping weight—Standard V8 (lbs.)	3140	3145

N.A.—Not availal

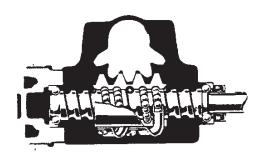
Relay type steering linkage and low-friction Ball-Race steering gear with rubbercushioned jointed steering gear shaft coupling.



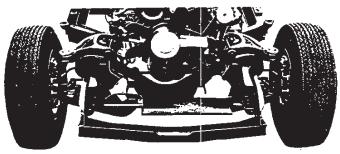




Self-adjusting Sport-Master caliper-type disc brake.



Ball-Race steering gear.



Corvette independent coil spring spherical joint front suspension with stabilizer bar.

Drive Shaft

Balanced single-unit tubular steel drive shaft with universal joints joining shaft ends to transmission and axle. Heavier-duty drive shaft and universal joints included with Turbo Hydra-Matic transmission.

Rear Axle

Hypoid gear design with 8.375° diameter ring gear and cast iron housing. See Power Teams section for axle ratios available.

Brakes

Self-adjusting 4-wheel caliper-type disc brake system with dual master cylinder and warning light on instrument panel that checks on the parking brake and monitors hydraulic pressure balance when the brakes are applied. Brake disc diameter—

11.75". Lining size (length x width x thickness)—5.96" x 2.21" x .41". Total lining area—81.7 sq. in. Woven asbestos composition lining secured to brake shoes. Cast iron brake discs with radial internal fins for rapid heat dissipation. Power Brakes (RPO J50) available. Independent mechanical parking brake system—6.5" diameter internal drum with two shoes and riveted linings at each rear wheel. Console-mounted parking brake control.

Wheels and Tires

Welded steel 15" wheels with brake cooling slots. Rim width—8". F70 x 15 special wide-oval tires standard. All wheels and tires statically balanced for smooth, quiet operation and long tire life. See Options and Prices section for other tires available.

SPECIAL CHASSIS EQUIPMENT—For complete list of special options see Options and Prices section.

HISTORY OF THE 1969 ZL-1

The ZL-1 came off the General Motors assembly line in June, 1969. It was originally ordered as a company car by St. Louis Corvette Plant Engineer George H. Heberling. Mr. Heberling left the company in December, 1969. Heberling's replacement, however, was not the "sports car" type and had the car put up for sale through General Motors at the zone level.

The ZL-1 went to Hechler Chevrolet in Richmond, Virginia.

John Zagos purchased the ZL-1 from Hechler Chevrolet in 1970. Zagos drove the car furiously and dropped a valve the first night he had the car. Zagos returned the car to Hechler for a warranty repair. It was at this time that the engine mysteriously disappeared. Zagos took the replacement engine and installed it in his drag boat. The ZL-1, less engine, sat for almost two years outside Zagos' gas station, before being sold back to Hechler Chevrolet. The car had several owners in the Richmond area before being purchased by Wayne Walker (fourth owner).

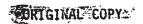
In 1976, Wayne Walker, owner of ZIP Products, Mechanicsville, Virginia, had researched the ZL-1 and was aware of the car's value. He began an intensive search for the car and found it just two blocks from his office. Walker purchased the car, and through his friend, John Zagos, acquired some of the original engine pieces and eventually located the original engine block. Walker restored the car completely to factory specifications, had the original engine rebuilt and dyno tested and then took the car to Houston, Texas, for a concours paint job. Wayne Walker's efforts paid off when the ZL-1 was awarded the Bloomington Gold Certificate at the 1981 Bloomington, Ilinois Corvette Coral.

In January, 1986, Wayne Walker sold the car to Edward L. Mueller of Franklin Lakes, New Jersey. Mueller entered the car in the 1988 Bloomington Gold. In September, 1988, Mueller sold the car to Craig Priest, owner of The Vette Smith, in Miami, Florida. Later that year, Richard Joseph Lynn purchased the corvette from Craig Priest. The Government issued its order for warrant of arrest of the corvette in May, 1990.

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GENERAL

MODEL IDENTIFICATION	2
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REGULAR EQUIPMENT - INTERIOR	5
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AID COMOTTOMING FOUNDATION	_



MODEL IDENTIFICATION

CORVETTE 19437 SPORT COUPE

MODEL 19437 2-DOOR SPORT COUPE, 2-PASSENGER

CORVETTE 19467 CONVERTIBLE

MODEL 19467 2-DOOR CONVERTIBLE, 2-PASSENGER

ż.

2-GENERAL

SEPTEMBER 1968

1969 CORVETTE

SERIAL NUMBERS AND IDENTIFICATIO

ONLY BASIC DESIGNATIONS SHOWN

VEHICLE SERIAL NUMBER

8-Cylinder Example:

	Model Year	Assembly Plant	Unit Number
Model	1969	(St. Louis)	(25th unit)
10437	0	S	700025

Thus: The 25th model built at St. Louis would be serial number 1943795700025

ASSEMBLY PLANTS

S - St. Louis

Starting unit number ----- 700001 and up at each assembly plant regardless of series Location ----- Stamped on plate attached to left hand windshield pillar

TRANSMISSION IDENTIFICATION

Example: RJS9E01D

Designation RJ		gnation Designat	ion	1969	Month & Date E01D*		
1	RJ	3-Speed	V-8	engine		- Saginaw	
_		4-Speed		engine	R	- Saginaw	
WE		4+Speed	1	enfrue	P	- Muncie	
-		Durbo Hwira-Matic	V-8	engine	Icc	- Ypeilanti	

Model Vest

Production*

Location:	
3-Speed & 4-speed	Stamped on
right hand side of the case inthe upper forw	ard corner.
4-Speed	Stamped on
the top right side	of the case.
Turbo Hydra-Matic	
tag on right hand side	of the case.
*-Month: E denotes May: 01 denotes 1st	day.

-Alpha Characters used in identifying the Calendar Month

A - January	D - April	K - July	R - October
B - Pebruary		M - August	S - November
C - March	H - June	P - September	T - December

*-The latter "D" or "N" following the date numerals indicates day or night shift.

ENGINE IDENTIFICATION

Example: P1210HE

Source	Production*	Type
Designation	Month & Date	Designation
F(Flint)	1210	HY

350 Cubic Inch 8-Cylinder

HY - Regular engine, 3-speed & 4-speed, 4-bbl. carb. HZ - Regular engine, Turbo Hydra-Matic

350 Cubic Inch B-Cylinder (RPO-L46)

HW - Optional engine, 4-speed, 4-bbl, carb.

427 Cubic Inch 8-Cylinder (RPO-L36)

LM - Optional engine, 4-speed, 4-bbl, carb.
LL - Optional engine, Turbo Hydra-Maric

427 Cubic Inch 8-Cylinder (RPO-L68)

LQ - Optional engine, 4-speed, 3 x 2-bbl. carbs. LN - Optional engine, Turbo Hydra-Matic

427 Cubic Inch 8-Cylinder (RPO-L71)

LR - Optional engine, 4-speed, 3 x 2-bbl, carbs.

Mechanical Lifters,

LX - Optional engine, Turbo Hydra-Matic

Location:

8-Cylinder engine -------- Stamped on top front of RH bank of cylinder and case.

* - Month: December, 12; 10th day of December, 10.

REAR AXLE IDENTIFICATION

Example: AK0212W

Type Designation	Production* Month & Date 0212	=
	; 36 3-speed, 70	
AM 3 AO 3 AP 4 AY 3	08 3-speed, 4-speed, 86 3-speed, 85 3-speed, 170 773 Turbo Hyd	4-speed transmission 4-speed transmission 4-speed transmission 4-speed transmission ra-Matic transmission

- * Month: February, 02; 12th day of February, 12
- ¢ G-Gear & Axle, B-Buffalo, W-Warren,

REGULAR EQUIPMENT—EXTERIOR

STANDARD EXTERIOR EQUIPMENT

		Loupe Loupe 14457	Convertible 19467
1000 V	Radiator Grille - Plastic, Black Painted	x	×
열선 기가 있었다.	Parking Lamps - Amber Lens	X	X
	License Plate Frame, Bright	X	X
And the State of t	Retractable Headlamps and Washers, Paimed Bezels	X	X
FRONT	Hood Emblem, Cross-Flags	X	X
	Windshield Reveal Moldings, Bright and Painted	Х	Х
	Concealed Windshield Wipers with Integral Washers in Wiper Arms	X	X
- ` · · · · · · · · · · · · · · · · · ·	From Bumper and Grille Guards, Bright	X	X
	Front Fender and Rear Quarter Marker Lamps	X	x
	Front Fender Louvers	X	Х
· .	Front Pender Nameplate, "Stingray" Script	X	X
,	Outside Rear View Mirror	X	X
• 1	Rocker Panel Molding, Bright and Painted	X	X
SIDE	Wheel Trim Ring and Hub Cap	X	х
2000	Roof Drip Molding - Bright	X	
	Removable Roof Panels	X	
·	Press-Flap Door Opening Handles - Bright	X	X
384 W. 15 15	Key Locks - Bright	X	_ X
	Door Beit Bead Molding - Bright	X	X
<u> </u>	Rear End Panel Block Letters "Corvette"	X	X
·	Single Outboard Tail Lamps	X	X
	Single Inboard Back-Up Lamps and Reflex	X	X
	Gas Tank Filler Door Emblem, Crossed Flags	Х	X
REAR	License Plate Frame and Compartment Bezel, Bright	X	X
• • •	Exhaust Pipe Extensions and Bezels, Bright	X	X
` .	Air Outlet Grilles, Painted	Х	X
!'	Rear Bumper and Integral Guards	X	X

REGULAR EQUIPMENT—INTERIOR

STANDARD INTERIOR EQUIPMENT

		Coupe	- Convertible
		19437	19467
	Molded Headlining, Padded with Sun Visor Pockets	Х	
	Windshield Pillars, Padded and Painted	X	х
There are a second of the second of	Sunshades, Padded with Brushed Hardware	х	X
2007 200	Rear View Mirror, Padded with Brushed Finish Support	X	X
STILL ARE	Roof Center Strut, Padded with Bright Hardware	Х	
PILLARS	Top Header Release Latches, Bright	X	
	Removable Rear Window Frame, Bright	X	
	Door Jamb Light Switch	X	X
Timore Mérasonis	Bucket Seats - All Vinyl with Head Restraints	X	X
	Passenger and Stowage Compartment Floor, Carpet with Sound Blanket	x	х
	Seat Back Latches, Bright	X	X
BATS .	Seat Adjuster Handle, Bright	X	X
AND The second	Seat Belts (2), Bright Buckles	X	X
FLOOR	Shoulder Harness and Retractors (Positive Control)	Х	
COVERING	Floor Stowage Compartment - 3-Doors, Carpeted	X	X
	Floor Stowage Compartment Door Trim Rings and Push Buttons - Paimed - Bright	х	х
Property of the second	Body Sill Plates - Bright and Painted	X	Х
	Stowage Compartment Rear Wall Courtesy Lamp	X	X
1974 To B. B. J. S. M.	Vinyl Roof Panel Sowage Bag and Tie-Down Straps, Color-Keyed	X	
, ,	Molded Door Trim Panel with Built-In Armrest	X	х
DOOR	Door Assist Handle - Padded Vinyl	X	X
AND	Door Remote Control Handle - Chrome and Painted	X	X
QUARTER	Door Locking Knobs and Escutcheons - Chrome and Painted	X	X
PANEL	Door Trim Panel Padded Applique	X	Х
TWEL	Door Locks - Pree Wheeling	X	X
,	Window Control Handle - Bright, Plastic Knob	X	X
** 3	Instrument Panel Pad - Trim Color	X	Х
	160 MPH Speedometer with Trip-O-Dometer	X	X
	7000 RPM Tachometer	Х	X
	Headlamp Rotation and Main Light Switch	X	X
	Windshield Washer and Wiper Control - Black Painted	X	X
A Same	"Astro-Verzilation" Air Outlets and Control Knobs - Bright	X	Х
·- **	Instrument Panel Map Pocket - R, H.	X	X
	Electric Clock	X	X
\$ Th	Ammeter, Temperature, Fuel and Oil Pressure Gauges	X	X
	Headlamp Hi-Beam Indicator	Х	X
in the contract of the contrac	Seat Belt, Door Ajar and Headlamp Indicators	X	X
	Hood Release Lever — Black Painted Lamp Monitoring Indicators	X	Х
INSTRUMENT	Page Company of Clark Page 1 and Company Description	X	Х
PANEL,	Rear Compartment Glove Box with Lamp — Carpeted Door Ash Tray and Lighter	X	X
AND	Parking Brake Warning Light	X	X
STREERING	Heater Conrols - Thumb Wheel	 	X
WHEEL	Air Vent Control Knobs - Black Painted, White Letters "Close"	 	Î
Carrier Carrier	Floor Center Console and Trim Plate - Padded, Morocco Pinish	 	
	Floor Center Console Trim Plate "Crossed Flags" Emblem and Engine 1.D.	x	x
	Parking Brake Lever - Black - Bright	X	X
	15" Black Vinyl Seering Wheel, Bright Trim	 	x
or in-	Horn Button Cap — Painted, Grained	 	x
学院 是[2]	Horn Button Cap Emblem — Bright, Painted	Î x	x
	Hazard Warning Switch - Bright	X	X
	Turn Signal Indicators and Control Lever - Bright, Painted	X	X
	Steering Column Ignition Switch and Lock - 4-Position Painted	X	X
	Center Cluster Padded Surface, Morocco Pinish	×	X
	Center Chister "Corvette" Nameplate	х	Х
	Floor Rear Console - Vinyl Grain Covered	X	X
	Windahield, Laminated Safety Plate	X	×
ŽIAS	Door Windows with "Astro-Ventilation" Monogram, Safety Solid Plate	x	х
Store Store	Removable Rear Window, Safety Solid Plate	х	
THE REPORT OF THE PARTY OF THE	Rear Window, Vinyl Plastic		X

REGULAR PRODUCTION OPTIONS AND DEALER INSTALLED ACCESSORIES

Equipment 3	EPO/	ACC	y statodole
ir conditioner, Four-Season	C60		19400
de autos			
2.73 ratio			19400
3.08 ratio	*		19400
3.36 ratio	•		19400
3.55 ratio	1		19400
3,70 ratio	•		19400
4.11 ratio			19400
4,56 ratio	•		19400
Positraction (all ratios)	G81		19400
rakes, heavy duty	J56		19400
rakes, power	J50		19400
arrier, deck lid luggage		ACC	19467
Ompass		ACC	19400
efroster, rear window	C50		19400
mergency road kit	7	ACC	19400
ngines	7	1 2	,
Aluminum cylinder heads	1.89		19400
390 hp Turbo-Jet 427 Cu.ln. V-8	1.36		19400
400 hp Turbo-Jet 427 Cu.in. V-8	1.68		19400
350 hp Turbo-Fire 350 cu.in, V-8	146		19400
435 hp Turbo-Fire 350 cu.in. V-8	L71		19400
435 hp Turbo-Jet 427 Cu.m. V-6	K05		19400
ngine block heater	N14		19400
xhaust system, side-mounted	MIS	100	19400
ire extinguisher		ACC	19400
ire extinguisher refill cartridge		ACC	19400
loor mats, clear vinyl twin	2010	ACC	19400
rom fender lower trim grille	TJ2	 -	19400
inns, timed window	A01		
orn alarm system	UA6		19400
mition, full-transistor	K66		19400
ock, gas cap		ACC	19400
lirror, visor vanity		ACC	19400
adio and rear antenna, push-button AM-FM	U69	ACC	19400
adio amenna, rear fixed height		ACC	19400
loaf cover, vinyl	C08		19467
ear, child restraint		ACC	19400
houlder harness, dehuxe	A85		19400
peed warning indicator	U15		19400
poclight, hand portable	1	ACC	19400
Reering, power	N40		19400
teering wheel, tilt and telescopic	N37	1	19400
tereo-multiplex	U79	1 1	19400
uspension, special performance from and rear	F41	1	19400
		*	W1 15 1
ires	PT6	1	19400
F70-15-4 pr tire-special nylon-red stripe	P17		19400
F70-15-4 pr tire-special nylon-white stripe	P17	ACC	19400
liague dispenser		AUC	19407
op, auxiliary	C07	+	
op, folding convertible	C05	<u> </u>	19467
ransmissions	JE 74 5,127	100	rest to the state of
4-speed	M20		19400
4-speed, close ratio	M21		19400
3-speed automatic, Turbo Hydra-Matic	M40		19400
Heavy dury 4-speed transmission	M22		19400
Wheel covers, deluxe	P02	ACC	19400
	A31	7	19400

^{*}Positraction only.

AIR CONDITIONING EQUIPMENT

FOUR-SEASON (RPO C60)

Hease integrated; manually controlled by two thumb wheel controls on anthument control panel, plus a 4-speed fan switch. Left thumb wheel spees vacuum supply and electrical switches to operate mode doors and compressor. Right thumb wheel uses howden cable to tengenturize door in selector duct assembly.

BASICARMPONENTS

(S) #5#

**

Evaluation, blower, condenser, receiver-dehydrator, refrigerant (frame) tank, air intake assembly and dust assembly for both systems.

EQUIPMENT (Used in addition to or in place of base equipment)

PRINT and Rear Springs CHARLE Ratio - Refer to Power Trains Section	Heavy dury
POWER TRAINS	7 biad
Controlate Pulley	
Pump & Fan Pulley	Dua
Desgressor & Crankshaft Belt	On
71(0)	

DIMENSIONS AND WEIGHTS

INTERIOR DIMENSIONS	2
EXTERIOR DIMENSIONS	3
VEHICLE WEIGHTS	4

- 13g

FRONT COMPARTMENT

		19437	19467	
CODE	DESCRIPTION	COUPE	SOFT TOP	HARDTOP
H5	H point to ground			
H30	H point to heel point		6.5	
H37	Headlining to roof height	0.9		0.7
H54	D point to tunnel			
H58	H point rise		0.4	
H61	Effective headroom	36.2	37.1	36.0
H65	D point differential, side to center			
H67	Depressed floor covering thickness	0.3		
H70	Body zero line to H point (vert.)	7,0		
L17	H point travel	4.5		
L31	Body zero line to H point (horiz.)	44.7		
L34	Maximum effective leg room - accelerator	43.0		
L40	Back angle (degrees)	33.0		
L42	Hip angle (degrees)	107.0		
144	Knee angle (degrees)	138,0		
L46	Foot angle (degrees)	88.0		
L53	H point to accelerator floor point	36,1		

SEAT AND ENTRANCE

НЗ	Seat chair height		8,8	
H11	Entrance height		29.0	
H26	Interior body height, M/M @ car cemerline	33,4		33,5
H27	Interior body, M/M @ C/LO	40,0		40,2
H32	Seat cushion deflection		2,2	
H50	Upper body opening to ground		43,6	
WI	Hat room			
W3	Shoulder room		46.9	
W5	Hip room		48,8	
W16	Seat width (each seat)		20.0	
L.14	Seat back thickness		2.3	
1.18	Entrance foot clearance		13,2	

VISION AND CONTROL

H6	H point to W/S bottom DLO	19.8
H13	Steering wheel thigh clearance	4,2
H18	Steering column angle (degrees) horizontal	14,4
H25	Belt height	17.4
H49	H point to top of steering wheel	1,5
H64	H point to W/S upper DLO	
W7	Steering wheel center to car centerline	12.8
W9	Steering wheel maximum O.D.	15.0
W122	Tumble-home (degrees)	62.3
L7	Steering wheel torso clearance	12.4
L13	Brake pedal knee clearance	24,5
L49	H point to W/S upper DLO	
1.52	Brake pedal to accelerator	1,8

.53

LENGTHS

cont		19437	19467	
CODE	DESCRIPTION	COUPE	SOFT TOP HARDTOP	
L101	Wheelbase		98.0	
L102	Tire size (standard)		F70-15	
L103	Overall length		182.1	
L104	Overhang - front	40.6		
L105	Overhang - rear	43,9		
	Overall length - less bumpers			
L123	Body upper structure length at car C/L	55,6		
L127	Body O line to C/L of rear wheels	72.0		
L128	Hood length at centerline	77,5		
L129	Deck length @ car C/L	46,7		
L130	Body zero line to W/S cowl point	13,1		

WIDTHS

W101	Tread - front	58,7
W102	Tread - rear	59.4
W103	Maximum overall width of car (W106)	69.0
W106	Front fender overall width	69.0
W107	Rear fender overall width	68.8
W120	Overall car width, front doors open	134,0

HEIGHTS

H101	Overall height (design)	47.8	47.9		
	Overall height (curb)				
H102	Front bumper to ground				
H104	Rear bumper to ground				
H111	Rocker panel to ground - rear		6.7		
	Rocker panel to ground - front		6.7		
	Hood at rear to ground				
H115	Step height - front (design)		13.1		
	W/S slope angle (degrees)		32.6		
H125	Headlamp to ground				
	Tail lamp to ground				
	Step height ~ front (curb)				
H132	Bottom of door to ground - open				
H133	Bottom of door to ground - closed				
H136	Body O line to ground - front		7_6		
H137	Body O line to ground - rear		7.6		
H158	Roof thickness		3,9		
H159	DLO height	LO height 11.9			
H160	Body thickness		24.4		

CLEARANCES

H106	Angle of approach (degrees)	22,0
H107	Angle of departure (degrees)	21.0
H147	Ramp breakover angle (degrees)	22.0
H148	Front suspension to ground	
H149	Oil pan to ground	
H150	Flywheel housing to ground	
H151	Frame to ground	
H152	Exhaust system to ground	
H153	Rear axie to ground	-
H154	Fuel tank to ground	
H155	Tire well to ground	
H156	Minimum ground clearance (HISS)	

VEHICLE WEIGHTS

CORVETTE

Model	VEHICLE TYPE	SHIP	ING WI	IGHT	CURB WEIGHT		
Symbol	Description	Front	Rear	Total	Front	Rear	Total
19437	2-Door Sport Coupe	1600	1540	3140	1575	1670	3245
19467	2-Door Convertible	1575	1570	3145	1545	1705	3250

SHIPPING WEIGHT: . Weight of basic vehicle with regular equipment and grease and .nil. Weight of gasoline and water not included,

CURB WEIGHT: Weight of empry vehicle ready to drive. Shipping weight plus the weight of gasoline and water.

For total shipping, and curb, weights of vehicles equipped with the following options, add to, or deduct from, the base vehicle weight (lbs).

RPO		Weight	
A31	Power Windows		. 10
C07	Auxiliary top	W/folding top	+ 52
C60	Air conditioning	- 95	
J50	Power brakes		+ 10
J36	Heavy duty brai	tes	+ 4
K66	Translator igni	rion	. 2
L36	427 Cu.In. V-8	Engine	+ 157
1.46	350 Cu.In. V-8	Engine	+ 1
86.I	427 Cu.In. V-8	+ 11	
1.71	427 Cu.ln. V-8	Engine	+ 177
1.89	Aluminum cylir	der besds	- 73
M20	4-Speed transm		- 4
M21	4-Speed transm	ission (C,R,)	- 4
M22	4-Speed transm		- 3
M40		atic transmission	+ 62
N14	Side mounted to		- 30
N37		tilt and telescopic	+ 11
N40	Power steering		+ 26
P02	Wheel trim cov		+ 18
U69	Radio, AM/FM		- 16
U79	Radio stereo ec		+ 6
UA6	Horn alarm sys	+ 3	

BODY

EXTERIOR PAINT PROCESS	- 1
EXTERIOR-INTERIOR COLORS	;
DODY CONCEDUCTION AND CLASS AREA	

1969 CORVETTE SEPTEMBER 1968 BODY-1

EXTERIOR PAINT PROCESS

- PRIMARY SANDING. All body panels and bonded joints that receive acrylic lacquer are dry sanded to prepare surfaces for painting. A filler material, called putty rub, is applied to the entire body to fill minor imperfections.
- PRIMER. Two coats of primer are applied -- the first red and the second gray -- and are oven baked for 60 minutes at 280 degrees F.
- WET SANDING. The body is wet sanded to provide a amouth surface for the sealers. Most of the gray primer coat is removed with the red primer acting as a depth signal for the sanding operation. The body is dried to remove all moisture.
- SEALER. One coat of sealer and one coat of color acrylic lacquer are applied and baked.
- DRY SANDING. The body is dry sanded to prepare surfaces for the final acrylic lacquer.

- 6. LACQUERING. Three coats of acrylic lacquer are sprayed on the body to build up the required paint thickness. The paint is "rested" for eight minutes to permit it to partially set up and to remove excess volatile paint vehicle.
- 7. INITIAL BAKING. The body is oven baked for 30 minutes at 140 degrees F to harden the paint which permits the subsequent operation. Small interior and exterior parts are painted to complete the body paint schedule.
- 8. FINAL BAKING. To assure a durable, hard, high luster finish the lacquer is oven baked for 45 minutes at 250 degrees F. Reheating the lacquer permits the paint film to soften and allows surface blemishes and sanding scratches to disappear during the thermo-reflow process.
- FINAL SANDING AND POLISHING. The body is lightly oil sanded and polished to bring painted surfaces to a high luster finish.

2-BODY SEPTEMBER 1968 1969 CORVETTE

EXTERIOR-INTERIOR COLORS

CORVETTE

<u> </u>	MODEL			INTERIOR COLORS AND RPO NUMBERS					
SERIES	37		TRIM	Black	Saddle	Red	Bhie	Green	Gun Metal
	x	x	Vinvl	Prod.	420	407	411	427	416
19400	X	X	Leather	402	421	408	412	428	417

RPO EXTERIOR COLOR

900	Tuxedo Black	Х	X	X	X	Х	Х
972	Can-Am White	X	X	X	X	Х	X
974	Monza Red	X	X	X			
976	Le Mans Blue	X			X		
990	Hugger Orange	X					
983	Fathorn Green	X	X	<u> </u>		X	
984	Daytona Yellow	X			,		
986	Cortez Silver	X	X		X	X	X
988	Burgundy Maroon	X	X				
980	Riverside Gold	X					

Convertible folding top colors: Black - Production White - RPO

Beige - RPO

RPO C08 Vinyl Roof Color - removable hardrop only: ·

BODY CONSTRUCTION AND GLASS AREA

Construction	SEATS Type and construction
Principal members — underbody, front and rear end assemblies, dash panel and hinge pillars are bonded, riveted, or bolted together and to each other. Hood is plastic with bonded plastic reinforcement. Coupe: two removable roof panels and removable rear window.	WINDSHIELD WIPERS Type Concealed, dual, two-speed, electric vacuum operared cowl panel; integral washer provided,
DOORS AND LOCKS Construction	HEADLIGHTS Type
Operation	SPARE TIRE Location
VENTILATION Type "Saddlebag" cowl top air injets channel air to cowl side kick panel outlets controlled by bowden cable and alide type levers mounted in instru- ment panel cemer console. Water drainage	TOOLS Type

BODY GLASS VISIBILITY AREA

	MODELS			
LOCATION	37	67		
Windshield				
Front door window				
Rear quarter window		S 51		
Back window				
Total area (sq.in.)				

CHASSIS

FRAME AND FRONT SUSPENSION	•
STEERING, DRIVELENE, WHEELS AND TIRES	3
REAR AXLE AND SUSPENSION	4
BRAKES	
BULBS AND LAMPS	•
FUSES AND CIRCUIT BREAKERS	1

FRAME AND FRONT SUSPENSION

PRAME Description length, ladder constructed frame with 5 cross- members. Side rails and intermediate cross- members box section; from crossmember box girder section. Eight body mounting points.	SPHERICAL JOINTS Type
PRONT SUSPENSION Description	SHOCK ABSORBERS Type
Wheel to spring, travel ratio	STABILIZER BAR Type
STEERING KNUCKLES Description	PRONT WHEEL ALIGNMENT (CURB) Camber (degrees)
Spindle diameters Inner bearing Outer bearing Spindle thread size Wheel bearings Type 1,2493-1,2498 7492-,7497 Spindle thread size 3/4-20 NEF-3 (modified) Taper roller	GENERAL SUSPENSION PROVISIONS Car leveling

FRONT SPRINGS

Part Number	Ref.	Туре	Material	Cut-off Length	Wire Dia.	inside Dia.	Heights Working (In. @ Ibe)	Deflecti (lbs pe	
3931 823 3931 825	A B	Coil, R.H. helix	Steel alloy	138.25 138.75	.600	3.80	9.99 @ 1395 9.99 @ 1540	250 284	

Engine	327 Cu.In. V-8	427 Cu.in. V-8
Model	19400	19400
Reference	٨	В

STEERING, DRIVELINE, WHEELS AND TIRES

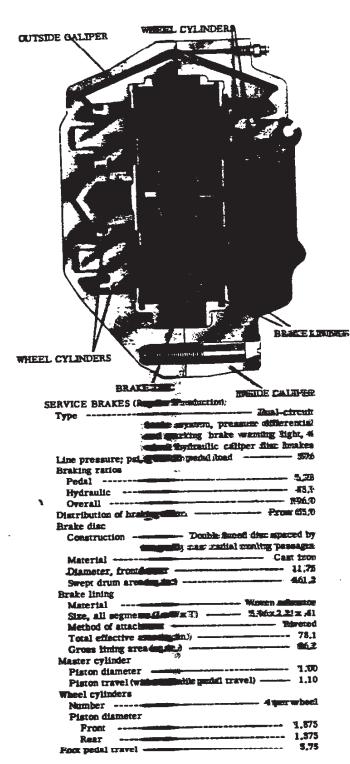
MANUAL STEERING, regular production Description Semi-reversible gear with hall-nut driven by recirculating anti-friction bearings, emergy absorbing steering column, steering damper attached to relay rod; two-position steering knuckle arm attachment for street and fast ratio steering. Adjustable steering column available optionally. System ratios Steering gear 16:1	DRIVELINE Tubular Tubular Number used One Diameter (OD) Manual 1,995-2,003 Turbo Hydra-Matic 2,250 Length (C/L of U-joints) Manual 29,90 Turbo Hydra-Matic 29,50 Wall thickness .092-,097 Universal joints Type Cross Cross
Overall ratio	Number used Two
Street 20.2:1 Fast 17.6:1 Turning diameters (ft) Outside front, wall to wall 39 Outside front, curb to curb 37 Inside rear, wall to wall 37 Inside rear, curb to curb 37 Number of wheel turns, lock to lock	Bearings Prepack, anti-friction Drive and torque forces Through rear suspension control arms
Street 3.4 Fast 2.92 Outside wheel angle with inside wheel ② 15 degrees 14.25 ② 20 Degrees 18.47 ③ 34 degrees (limit of turn) 27.34 Linkage Parallelogram type, rear of front wheels Steering wheel Standard and optional telescoping wheel Deep diahed, 16.0 diameter	WHEELS (Regular Production) Type
POWER STEERING, RPO N40 (Same as standard manual steering except as abown) Description	Tires Construction

REAR AXLE AND SUSPENSION

REAR CXLE Description hypoid ring and pinton gear set, tubular articulating inner axle shafts and short solid outer shafts with integral drive flange, independently sprung rear whoels Pinten offset
Piritim bearing adjustment
Hymned gear PD all except 2,73:1 ratio 8,375
2.73:1 ratio 8.125
Military Spec. MIL-L-2105-B
Vaccounty SAE60
Poler plug 1-3/8 bez, 1-20 AN thread
Capacity (pts) 3,7
- OI
RING AND PINION GEARS
Axle
Ratio Combination
2.73
3.08 37,12
3.36 37,11
3,55 32,9
3,70 \$7,10
4.11 37.9
August 1
e No
%
AXLESHAFTS
1-1
insign Welded steel
tubing with universal joint attach-
ments to short shafts at each end.
Cutter Short, splined high-alloy steel
with integral wheel mounting flange
Asie bearings
Type Inner and tuner tapered
roller, steel entaged rubber hearing scale

REAR SUSPENSION
DescriptionFull independent
with frame-anchored differential. Position of
each wheel established by 3 links: tubular axle
drive shafts, transverse strut rods, torque
control arms. Vertical suspension loads taken
by transverse leaf spring. Built-in camber
adjustment at strut rod inner ends.
Wheel travel (design beight)
Сипре Сопу.
Total 6,86 6,86
Jounce 2,87 2,76
Rebound 3,99 4,10
Wheel to spring, travel ratio 0.90:1
FUACE A DEAD DEDE
SHOCK ABSORBERS Type Direct, double-acting, bydraulic
Piston diameter 1.00
•
STRUT
Material Forged steel
Diameter
Namere:
STABILIZER BAR (427 V-8)
Diameter
1000
REAR WHEEL ALIGNMENT
Curb
Camber (degrees) N1-3/8 to N 3/8
Toe-in (total) 1/32 to 3/32
2/00 10 0/00
TORQUE CONTROL ARMS
Description Welded steel box construction
•
TEAR SPRING
Type Variable rate, 9-leaf
Material Chrome carbon steel, heat treated
Length (developed) between eye centers 46,36
Width 2,25
Design load, Ib @ -camber 1360 @ ,352
Deflection rate, Ib per inch, @ design load
@ Spring 140
@ Wheel (wheel rate) 123
Spring liners
Number 7
Location Between all leaves
except numbers 6 and 7
Material Polyethylene with graphice

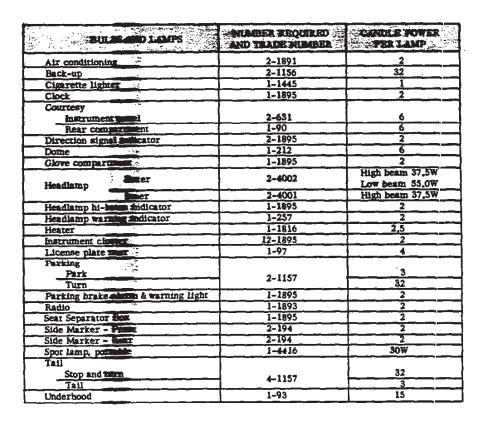
BRAKES



PARKING BRAKE
Type with each rear rotor, internal expanding shoe, mechanically actuated
Control Brake Hever; floor mounted in center console
Drum diameter
Brake lining
Number 2 shoes per each rear wheel
Size (LxWxT) 6.78 x 1.25 x .175
Gross Hining same (sq.in.) 33.9



PARKING BRAKE



FUSES AND CIRCUIT BREAKERS

	TYPE OF	LOCATION
cacust	PROTECTEDN	AND CIRCUIT
Air conditioning	AGC 25 fuse	In line Puse panel (f)
VIL countriound	AGC 25 fuse	
Air conditioning lamp	AGC 4 fuse	Fuse panel (d)
Back-up lamps	AGC 20 fuse	Puse panel (b)
Cigarette lighter	AGC 20 fuse	Fuse panel (c)
Cigarette lighter lamp	AGC 4 fuse	Fuse panel (d)
Clock	AGC 20 fuse	Puse panel (c)
Clock lamps	AGC 4 fuse	Fuse panel (4)
Courtesy lamps	AGC 20 fuse	Fuse panel (c)
Defogger, rear window	AGC 20 fuse	Puse panel (c)
Direction signal indicator lamp	AGC 20 fuse	Puse panel (d)
Dome lamp	AGC 20 fuse	Fuse panel (c)
Fuel gage	AGC 10 fuse	Fuse panel (b)
Glove compartment lamp	AGC 20 fuse	Fuse panel (c)
Headlamp hi-heam indicator lamp	15 amp CB	Light switch (g
Headlamp warning indicator lamp	40 amp CB	Hinge pillar (h)
Headlamps	15 amp CB	Light switch (g
Heater	AGC 25 fuse	Fuse panel (f)
Heater lamp	AGC 4 fuse	Puse panel (d)
ignition switch lamp	AGC 4 fuse	Fuse panel (d)
Instrument cluster lamps	AGC 4 fuse	Fuse panel (d)
License plate, rear	AGC 20 fuse	Fuse panel (a)
Brake warning lamp	AGC 10 fuse	Fuse panel (b)
Parking lamps	15 amp CB	Light switch (g
Power windows	40 amp CB	Hinge pillar (i)
Radio	AGC 10 fuse	Puse panel (e)
Radio aprenna	AGC 20 fuse	Fuse panel (c)
Radio lamp	AGC 4 fuse	Puse panel (d)
Rear compartment vent motor	AGC 10 fuse	Fuse panel (f)
Speed warning device	AGC 20 fuse	Fuse panel (c)
Side Marker lamp - Pront	AGC 20 fuse	Light switch
Side Marker lamp - Rear	AGC 20 fuse	Light switch
Spot lamp, portable	AGC 20 fuse	Puse panel (c)
Stop lamps	AGC 20 fuse	Puse panel (d)
Tail lamps	AGC 20 fuse	Fuse panel (a)
Temperature gage	AGC 10 fuse	Fuse panel (b)
Traffic hazard indicator	AGC 20 fuse	Fuse panel (c)
Windshield wiper	14 amp CB	Switch (j)

^{*} Letter suffix indicates same circuit

1969 CORVETTE SEPTEMBER 1968 CHASSIS-7

POWER TRAINS

LAMES (State Administration of the state of
POWER TEAM MULTIPLICATION FACTORS
ENGINE DATA AND RATINGS
ENGINE SPEED AND PISTON TRAVEL
VEHICLE PERFORMANCE FACTORS
ENGINE OUTPUT CURVES
PRINCIPAL COMPONENTS
FUEL SYSTEM 1
EXHAUST AND VENTILATION SYSTEM 1
LUBRICATION SYSTEM 1
COOLING SYSTEM 1
ELECTRICAL SYSTEM 1
CLUTCHES 1
THREE AND FOUR SPEED TRANSMISSIONS 1
TURBO HYDRA-MATIC TRANSMISSION

POWER TEAM COMBINATIONS

ENGINE TRANSMISSION		MODEL	AXLE RATIOS (A)					
	APPLICATION	2.73:1	3.08:1	3,36:1	3,55:1	3.70:1	4,11:1	
350 Cu.in. V-8 Turbo-Fire 350	3-Spd (2,54:1 low) & 4-Spd (2,52:1 low)	All Models		(Econ.#)	(Std.*)			
300 HP Standard	Turbo Hydra-Matic	7		(Std.*)				10.0
550 Cu.in. V-8	4-Spd (2,52:1 fow)				(Std.*)	(Pert.#)		u≛ *\ 4a
Turbo-Fire 350 350 HP RPO L46	4-Spd (2,20:1 low)	All Models		Alt once			(Std.*)	(Peri#)
427 Cu,in, V-8	4-Spd (2,52:1 low)			(Std.#)	Perf.#	i	i	
Turbo-Jet 427	4-Spd (2,20:1 10w)	All Models		Econ.#	\$zd.#	Pert.	Spc1.#	
390 HP RPO L36	Turbo Hydra-Maric		(Econ.#)	(Std.#)		11		
427 Cu,In, V-8	4-Spd (2,52:1 low)			(Std.#)	Perf.#	3	ns i Zm	F. 16 Tak
Turbo-Jet 427	4-Spd (2,20:1 low)	All Models		Econ.#	Std.#	Perf.	Spcl.#	
400 HP RPO L68	Turbo Hydra-Matic		(Econ.#)	(Std.#)				\$
427 Cu.In. V-8 Turbo-Jet 427	4-Spd (2.20:1 low)	All Models			Econ.#	Std.#	Pert.#	Spc1.#
435 HP RPO L71	Turbo Hydra-Matic]	Econ.#	Std.#	Perf.			

(A) Air conditioning available only with combination,

as indicated by parenthesis (), Positraction axies available optionally.

Available as positraction only.

Std. - Standard
Econ. - Economy (optional)
Perf. - Performance (optional)

Spcl. - Special (optional)

MULTIPLICATION FACTORS

WITH MANUAL TRANSMISSIONS

ENGINE CARBURETION	CARRIBETION	TRANSMISSION	TOTAL GEAR REDUCTION					AXLE
	I KANSMISSION	1at	2nd	3rd_	4th	Rev	RATIO	
350 Cu.In. V-8	4-Barrel	3-Speed (2.54:1)	8.53	5.04	3.36	1	8.84	3,36
300 HP Standard		4-Speed (2,52:1)	8,47	6.32	4.91	3.36	8,70	3,30
350 Cu.In. V-8	6 4-Barrel	4-Speed (2.52:1)	8,47	6,32	4.91	3.36	8,70	3,36
350 HP RPO L46		4-Speed (2,20:1)	8.14	6.07	4,70	3.70	8.36	3.70
427 Cu.In. V-8	4-Barrel	4-Speed (2.52:1)	7.76	5.79	4.50	3,00	7,98	3,08
390 HP RPO L36		4-Speed (2,20:1)	7,39	5.51	4.27	3,30	7,59	3,36
427 Cu.In. V-8	3 x 2-Barrel	4-Speed (2.52:1)	7,76	5.79	4,50	3.08	7,98	3,08
400 HP RPO L68	2 x 3-Darrer	4-Speed (2,20:1)	7,39	5.51	4.27	3,36	7,59	3,36
427 Cu.in. V-8 435 HP RPO L71	3 x 2-Barrel	4-Speed (2,20:1)	7.81	5,82	4,51	3,55	8,02	3,55

WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION	AXLE RATIO
350 Cu.in. V-8		Drive	16.05:1 - 3.08:1	
Standard	Turbo	Low	16.05:1 - 7.64:1	3.06:1
and	Hydra-Maric	Second	16.05:1 - 4.56:1	3,06:1
427 Cu.in. V-8		Reverse	13.46:1 - 6.41:1	<u> </u>

ENGINE DATA AND RATINGS

GENERAL DATA

Engine Type				V-8 OHV	V-8 OHV				
Piston Displace	ment (Cu, In.)	3.	50		427 PO L36 RPO L68 RPO Eight 4,251x3,76 10.25;1 11,6 57,8 -3-6-5-7-2 300(a) 750(a) 750(
Availability		Standard	RPO LA6	RPO L36	RPO L68	RPO L71			
Number of Cyli	nders]							
Bore and Stroke	e (nominal)	4,00x3.48 4,251x3.76							
Compression Ratio		10,25:1	11,0:1	10,	.25:1	11,01			
Taxable (SAE)	Horsepower	51	.2	57.8					
Firing Order		1-8-4-3-6-5-7-2			_				
	PM) (in neutral)	700(a)	750	800 (a) 750(a) 750		750(a)			
Compression P	ompression Press. (PSI) @ Cranking Speed, Engine Hot		165	1	60	165			
Lubrication					ull pressure				
Power Plant Mo	punting	Two front and one rear, compression type				уре			
	Fan to rear of engine block	30.64		32.14					
Measurements	Top air cleaner to bottom oil pan	26.2	7		27,81				
	Exhaust manifold to generator (width)	29.7	1	31.04					

(a) 600 for Automatic in drive

ADVERTISED ENGINE RATING

Engine	350 0	Cu, in.	427 Cu.in.			
Editos	300 HP	350 HP	390 HP	400 HP	435 HP	
Availability	Standard	RPO LAS	RPO L36	RPO L68	RPO L71	
Gross Brake HP @ RPM	300 € 4800	350 @ 5600	390 @ 5400	400 @ 5400	435 @ 5800	
Gross Torque @ RPM (lb-ft)	380 @ 3200	380 @ 3600	460 @ 3600	460 @ 3600	460 g 4000	

ENGINE SPEED AND PISTON TRAVEL

Transmission Rear Axie Ratio		350 Cu, In.				427 Cu.In.			
		3-Spd (a)	4-9	peed	Trb/Hd(a)		4-Speed		Trb/Hd
		3,36:1	3,36:1	3.70:1 (ъ)	3.08:1	3.08:1 (c)	3,36:1 (d)	3,55:1 (e)	3.08:1
Tire Size		P70 x 15							
Crankshaft Revolutions per Mile		257	3,8	2834.2	2539.3	2359.3	2573.B	2719.3	2359,3
 _	Low	108.9	108.1	103.9	97.5	99.1	94.4	99.7	97.5
	Second	64.3	80,6	77,5	58.2	73,9	70.3	74.3	58,2
Crankshaft RPM@MPH	Third	42.9	62.6	59.9	39.3	57.4	54.5	57.6	39,3
	Fourth		42.9	47.2		39.3	42.9	45.3	
	Reverse	112,8	111.1	106,7	61,8	101.8	96,9	102,4	81.8
Piston Travel (Pt/Mile)		139	4.1	1535.2	1277.9	1479.0	1612.9	1704.1	1479.0

(a) Available with 300 HP (Base) engine only

(b) Standard ratio for 350 HP (L48) engine with 2,20:1 low transmission

(c) Standard ratio for \$90 HP (L36) & 400 HP (L68) engines with 2.52:1 low transmission

(d) Standard ratio for 390 HP (L36) & 400 HP (L68) engines with 2,20:1 low transmission (e) Standard ratio for 435 HP (L71) engine with 2,20:1 low transmission

VEHICLE PERFORMANCE FACTORS

		RPO LA6			RPO L71
ENGINE	(350 CU.IN.	350 CU.IN.	427 CU.IN.		
:	300 HP_	350 HP	390 HP	400 HP	435 HP

3-SPEED TRANSMISSION		
Performance Weight (punds)	3545	
Pounds per Gross Horsepawer	11,82	Section of the contract of the
Pounds per Cu.in, Displacement	10.13	
Gross HP per Cu.in. Displacement	.857	Company of the contract of the
Power Displacement (cu.St./mile)	260.65	
Displacement Factor (EMSE,/ton mile)	147.09	A Secretary of the second of the second seco

4-SPEED TRANSMISSEN Performance Weight (punds)	3541	3542	3698	3709	3718
Pounds per Gross Homenwer	11.80	10.12	9,48	9,27	8,55
Pounda per Cu. in, Dispissement	10.12	10.12	8,66	8.69	8.71
Gross HP per Cu.In. Displacement	,857	1.00	.913	.937	1.02
Power Displacement (m.),/mile)	260.65	260,65	289,56	289,56	335.97
Displacement Factor (cm. 7r. /ton mile)	147.26	147.18	156,60	156.18	154,64

TURBO HYDRA-MATEC					
Performance Weight (mada)	3607		3759		3770_
Pounds per Gross Horsesower	12.02.		9.65	2 2 300 00 00 00	8,51
Pounds per Cu.in. Displacement	10.31		8,81	\$13.6 E	8,83
Gross HP per Cu, In. Damlacement	.857_		.913		1.02
Power Displacement (CMAR./mile)	238.93	1 - 2 - 1 - 1 - 3xf	289,56	100 mm 1	291.49
Displacement Factor (Cast./ton mile)	132.52	Wash species	154,02	44.5	180.73

GLOSSARY

Performance Weight

Curb Weight plus 300 Lt.

(weight of two 150 lb passengers)

Power Displacement

Crankshaft Reva/Mix Piston Displacement

2x1728

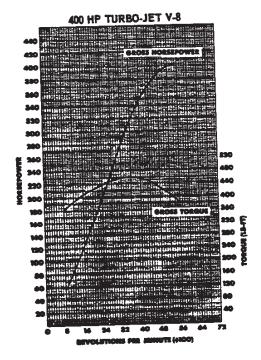
Displacement Factor

Power Displacement Performance Wt (tons)

ENGINE OUTPUT CURVES

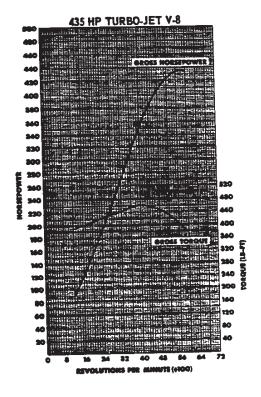
300 HP TURBO-FIRE Y-8

TO BE PROVIDED



The engine output curves represent full throule performance as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and standard temperature of 60 degrees F.

GROSS POWER and TORQUE were obtained in a regular dynamometer test with the dynamometer exhaust system,



no fan, generator not charging, optimum spark advance, and optimum fuel setting.

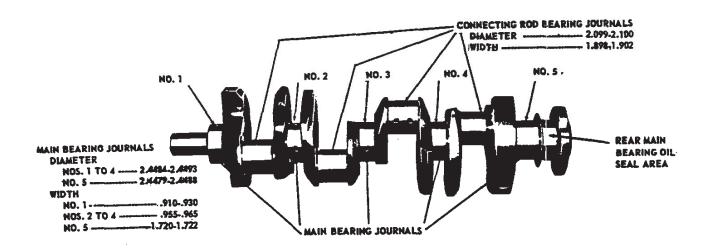
NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle, except the generator is not charging.

PRINCIPAL COMPONENTS

CYLINDER BLOCK
Material Cast alloy iron
Bore Diameter
V6-350 Cu.In 3.8745-3.8775
V8-427 Cu.in 4,2495-4,2525
Bore Spacing (Centerline to Centerline)
V8-350 Cu.In. 4.4
V8-427 Cu.In. 4.84
Number of Bulkheads 5
Water Jackets Full length around each cylinder
Cylinder Numbering Arrangement (Front to Rear)
Left Bank 1-3-5-7
Right Bank 2-4-6-8
CYLINDER HEAD Material
COMBUSTION CHAMBER VOLUME
Total chamber wohime of assembled engine with Diston
(Total chamber volume of assembled engine with piston at top center)
at top center)
at top center) V8-350 Cu,ln, (Base)
v8-350 Cu.in. (Base)
at top center) V8-350 Cu,ln, (Base)

INLET MANIFOLD Material V8-350 Cu.in. (Base & RPO L46) Cast alloy iron V8-427 Cu.in. Heat Provision Heat Provision Exhaust gas crossover at carburetor mounting pad
EXHAUST MANIFOLD Material ————————————————————————————————————
Type V8-350 Cu.in Dual, 4 port, exhaust emission to a single runner with center takedown collector V8-427 Cu.in Dual, 4 port, extended runners from each port converging to a rear takedown collector Outlet Diameter (Nominal)
CRANKSHAFT
Material
V8-350 Cu.in Nodular iron
V8-350 (RPO L46) & 427 Cu.ln Forged steel
Hardened journals on RPO L71
End Play
V8-350 Cu,In
V8-427 Cu.In006010
Counter Weights 6
Crank Arm Length
V8-350 Cu.in. 1.74
V8-427 Cu,In 1.88
Torsional Damper Rubber mounted inertia
Timing Gear

CRANKSHAFT 350 CUBIC INCH V-8 ENGINE

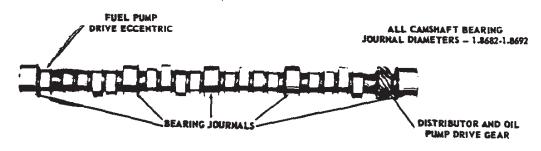


		196	
MAIN BEARINGS			
Material -	Premise	aluminum (except No. 5
	sintered calls	ratickel be	cked babbit
Туре		Precision	removable
Thrust Against Ber	ring No.		
Clearance			
V8-350 Cu.In.		- (6)	.00080020
	(#2, 3 & 4) .0000		
V8-427 Cu.in. (R			
40-421 CH-HI- (30	(#3 & 4) .0003		
100 400 0 1 40		,	
V8-427 Cu.In. (R	PO L71)		
		(#5)	,0015-,0031
		y*	
	Theorem		Projected
Dimensions	Inner Din	Length	Area
V8-350 Cu.In.		10.0	
Bearing #1		752	1,8425
Bearing #2-4	2,4505	~ .752	1,8428
Bearing #5	2,4507	1,177	2,8844
V8-427 Cu.In. (R)	PO L36 & L68)		
Bearing #1-2	2,7507	992	2,7287
Bearing #3-4	2,7505	992	2,7285
Bearing #5	2,7506	1 1 2525	3,4451
V8-427 Cu.ln.(R)			
		.992	2,7285
	2,7505	1 6774	
Bearing #1-4 Bearing #5	2,7505	1,2525	3.4451

CAMSHAFT	
Material	Cast alloy iron
Drive -	rocket & chain; steel
Lobe Lift	***
V8-350	Cu.in. (Base) Inlet; 2733 Exhaust
V8-350	Cu.m. (RPO LA6) Inlet; _3067 Exhaust
V8-427	Cu_in_(RPO L36 a Land) 2714 Inlet;
	_2824 Exhaust
V8-427	Cu_in_(RPO L71) - 3057 inlet & Exhaust
Bearings	Se steel backed babbitt

VALVE TRAIN
overhead rocker arms, push rod acquated
V8-427 Cu.in. (RPO L71) - Mechanical
Push Rods
Type Hollow steel
Ends
V8-350 (Base) Hardened
V8-350 Cu.in. (RPO L46) Hardened steel
insert on rocker arm ends
V8-427 Cu.in Hardened steel inserts
Rocker Arms
Material Stamped steel
Ratio
V8-350 Cu.in 1,50:1
V8-427 Cu.In 1.70:1
VALVE SPRINGS
Diameter (LD.)
V8-350 Cu.In868884
V8-427 Cu.In. 1,082-1,098
installed Length (lb. @ in.)
Valves Closed
V8-350 Cu.In 76-84 @ 1.70
V8-327 Cu,In 94-106 @ 1.88
Valves Opened
V8-350 Cu,In 194-206 @ 1,25
V8-427 Cu.in 303-327 @ 1.38
Free Length
V8-350 Cu.in 2.03
V8-427 Cu.ln 2.09
Valve Spring Dumper
V8-350 Cu.lin Plat steel, 4 coils
VB-427 Cu.ln. Flat steel, 3.62 coils

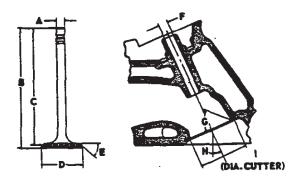
CAMSHAFT 350 CUBIC INCH V-8 ENGINE

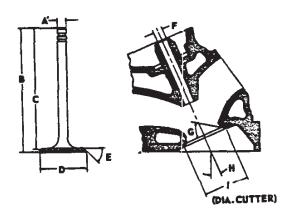


PRINCIPAL COMPONENTS—Cont'd.

VALVES - INLET	
Material	Alloy steel
Coating	
V8-350 Cu.in.	None
V8-427 Cu.in.	Face and head
	aluminized with chrome flash stem
Valve Guide Inseri	ts (V8-427) Cast alloy iron

VALVE - E	KHAUS?	r		
Material				High alloy steel
Coating				
V8-327	Cu.In.			Aluminum face
VR-427	Cu.ln.		Fac: and	head aluminized
			with ch	rome flash stem
Valve Gui	de Inse	rts (V8-427)		Cast alloy iron





A - Stem Diameter	
V8-350 Cu.ln.	.34103417
V8-427 Cu.in.	.37153722
B - Overall Length	
V8-350 Cu.in	4,870-4,889
V8-427 Cu,in, (RPO L36 & L68)	5,215-5,235
V8-427 Cu,in, (RPO L71)	5,226-5,251
C - Gage Length	
V8-350 Cu,In,	4,785-4,795
V8-427 Cu,In.	5,115-5,125
D - Overall Head Diameter	
V8-350 Cu_in, (Base)	1,935-1,945
V8-350 Cu,In, (RPO L46)	2,017-2,023
V8-427 Cu,in, (RPO L36 & L68)	2,060-2,070
V8-427 Cu, In. (RPO L71)	2,185-2,195
E - Angle of Face	45°
P - Guide Diameter	
V8-350 Cu,in.	.34278437
10-12: Ottom	,3732-,3742
G - Angle of Seat	46°
H - Naive Angle	
V8-350 Cu.in.	23°
V8-427 Cu.in	4°
I - Valve Seat (Cutter) Diameter	
V8-350 Cu,in, (Base)	1,990-2,010
V8-350 Cu.in. (RPO L46)	2,020
V8-427 Cu.In.	2,150

A - Stem Diameter	
V8-350 Cu_in	,3410-,3417
V8-427 Cu,in	.37133720
B - Overall Length	
V8-350 Cu.in. (Base)	4.913-4.933
V8-350 Cu,In, (RPO L46)	4,891-4,910
V8-427 Cu.In.	5,345-5,365
C - Gage Length	
V8-350 Cu.ln.	4.781-4.791
V8-427 Cu.In.	5,235-5,245
D - Overall Head Diameter	
V8-350 Cu,in, (Base)	1,495-1,505
V8-350 Cu.in. (RPO L46)	1,595-1,605
V8-427 Cu.in.	
	45
F - Guide Diameter	
	.34273437
10-000 adimi	3732-,3742
	46
	40
H - Vaive Angle	23
49-330 Off III.	4
V8-427 Cu.in.	4
I - Valve Seat (Curter) Diameter	
V8-350 Cu,In, (Base)	1,550-1,570
V8-350 Cu,in, (RPO L46)	1,600
V8-427 Cu.in.	1,625

PISTONS
Material
V8-350 Cu.in. (Base) Cast aluminum alloy
VR_350 Cu.In. (RPO L46) Aluminum impact extruded
V8-427 Cu.in. (RPO L36 & L68) - Cast aluminum alloy
V8-427 Cu.in. (RPO L71) ~ Aluminum impact extruded
Head Type
V8-350 Cu,ln, (Base) Flat, notched
V8-350 Cu,in, (RPO L46) Domed
V8-427 Cu.in. Domed
Skirt Type Slipper
Top Land Clearance
V8-350 Cu,In, (Rase)
V8-350 Cu.in. (RPO 146) ,0305-,0390
V8-427 Cu,in, (RPO L36 & L68), 0306-,0374
V8-427 Cu.in. (RPO L71) ,0265-,0335
Skirt Clearance V8-350 Cu.in. (Base)00070013
V8-350 Cu, In. (RPO LA6) ,0020-,0026
V8-427 Cu,in, (RPO L36 & L68) ,0012-,0020
V8-427 Cu,in, (RPO L71)00400046
Compression Ring Groove Depth
V8-350 Cu,in ,2218-,2288
V8-427 Cu_in. (RPO L36 & L68) ,2348-,2412
V8-427 Cu,In. (RPO L71) ,2378-,2438
Oil Ring Groove Depth
VB-350 Cu.in
V8-427 Cu,in. (RPO L36 & L68)21832247
V8-427 Cu,In, (RPO L71) ,2158-,2178
Pin Bore Offset
V8-350 (Base) & 427 (RPO L36 & L68) ,055-,065
V8-350 (RPO L46) & 427 (RPO L71) On center
Compression Height
V8-350 Cu,in 1,563-1.567
V8-427 Cu, In. (RPO L36 & L68) 1,908-1.912
V8-427 Cu,In. (RPO L71) 2.068-2.072
PISTON PINS
Material Chromium steel
Length
V8-350 Cu,In 2,990-3,010
V8-427 Cu.in 2,930-2,950
Diameter
V8-350 Cu.In,9270-,9270
V8-427 Cu,ln,98959898
Clearance in Piston
V8-350 Cu,in, (Base) ,00015-,00025
V8-350 Cu.In. (RPO L46)0004500055
V8-427 Cu,in, (RPO L36 & L68) ,00025-,00035
V8-427 Cu,ln, (RPO L36 & L68) ,00025-,00035 V8-427 Cu,ln, (RPO L71) ,00030-,00040
Pin Mounting Locked in rod by shrink fit
-

VALVE LIFT			
V8-350 Cu.in	(Base)	,3900 inlet & ,4100 Exhaust	ľ
V8-350 Cu.ln	, (RPO L46)	.4500 linlet; .4600 Exhaus	t
V8-427 Cu.in	, (RPO L36 & L	68) ,4614 inlet	;
		.4800 Exhaus	£.
V8-427 Cu.ln	(RPO L71) -	5197 Inlet & Exhaus:	t

VALVE TIMING (Crankshaft Degrees)

'8-350 Cu.in Base	Excluding Ramps	Including Ramps
Inlet Valve (Zero lash)		
Opens - BTC	28°	38*
Closes - ABC	72*	92°
Duration	280°	310*
Exhaust Valve (Zero lash)		
Opens - BBC	78°	88*
Closes - ATC	30°	52°
Duration	288 °	320°

	Excluding
y8-350 Cu.in RPO L46	Ramps
Inlet Valve (Zero lash)	
Opens - BTC	52°
Closes - ABC	114
Duration	346*
Exhaust Valve (Zero lash)	
Opens - BBC	98°
Closes - ATC	62*
Duration	340*

-427 Cu.In RPO 1.36 & 1.68	Excludin Ramps
nlet Valve (Zero lash)	
Opena - BTC	56*
Closes - ABC	114*
Duration	350°
Exhaust Valve (Zero lash)	
Opens - BBC	110*
Closes - ATC	62*
Duration	352*

3-427 Cu.In RPO L71	Excluding Ramps
Inlet Valve (opens with ,024 lash)	
Opens - BTC	44*
Closes - ABC	92
Duration	316*
Exhaust Valve (closes with 028 las	ıh)
Opens - BBC	86*
Closes - ATC	36*
Duration	302

PRINCIPAL COMPONENTS—Cont'd.

COMPRESSION RING - UPPER	
Material Cast alloy from	
Type Straight edge inside of ring	
Pace Barrel	
Coating	
V8-350 Cu_in_ (Base) Chrome plate	
V8-350 Cu.lin. (RPO 146) — Molyhdenum inlay V8-427 Cu.lin. Molyhdenum inlay	
V8-427 Cn.in Molybdenum inlay	
Width	
V8-350 Cu.in. (Base)	
V8-350 Cu.in. (RPO L46)	
V8-427 Cu,in,	
Wall Thickness	
V8-350 Cu.in	
V8-427 Cu.in. 202-212	
Gep	
COMPRESSION RINGS - LOWER	
Material Cast alloy iron Type Inside nevel (top of ring 30 degrees to piston vertical axis for V8-350; 28*-52* for V8-427)	
Material Cast alloy iron Type Inside nevel (top of ring 30 degrees to piston vertical axis for V8-350; 28*-52* for V8-427) Face Tapered	
Material Cast alloy iron Type 30 degrees to piston vertical axis for V8-3S0; 28*-52* for V8-427) Face Conting	
Material Cast alloy iron Type Inside bevel (top of ring 30 degrees to piston vertical axis for V8-350; 28*-52* for V8-427) Face Tapered Coating V8-350 Cu In (Base) Wear registrate	
Material Cast alloy iron Type Inside bevel (top of ring 30 degrees to piston vertical axis for V8-350; 28*-52* for V8-427) Face Coating V8-350 Cu_In. (Base) Wear resistant V8-350 Cu_In. (Base) Chrome plate	
Material — Cast alloy iron Type — inside bevel (top of ring 30 degrees to pisson vertical axis for V8-350; 28*-52* for V8-427) Face — Tapered Coating V8-350 Cu_in_ (Base) — Wear resistant V8-350 Cu_in_ (RPO L48) — Chrome plate V8-427 Ca in NRFO L568 — Wear resistant	
Material Cast alloy from	
Material Cast alloy iron Type 30 degrees to pisson vertical axis for V8-350; 28*-52* for V8-427) Pace Coating V8-350 Cu.in. (Base) Wear resistant V8-350 Cu.in. (RPO L48) Chrome plate V8-427 Ca.in. (RPO L54 L68) Wear resistant V8-427 Cu.in. (RPO L71) Chrome plate Width	
Material Cast alloy iron Type 30 degrees to piston vertical axis for V8-350; 28*-52* for V8-427) Face Coating V8-350 Cu.In. (Base) Wear resistant V8-350 Cu.In. (RPO L48) Chrome plate V8-427 Ca.In. (RPO L71) Chrome plate Width V8-350 Cu.In. (RPO L71) Chrome plate Width V8-350 Cu.In. (RPO L71) Chrome plate	
Material Cast alloy iron	
Material Cast alloy from	
Material Cast alloy iron	

OIL CONTROL RINGS Type Multi-piece (two nails and one spacer) Material
Rails Steel
Spacer Alloy steel
Width (essembled)
V8_350 Cu In
V8_427 Cu In18701890
Wall Thickness V8-350 Cu.in. V8-427 Cu.in
VR-350 Cu.lo ,150-,156
V8-427 Cu.h137143
Gap
Va 250 Cu In015055
VR_427 Cu.In ,010-,030
V8-427 Cu.lh
CONNECTING RODS Material Drop forged steel V8-427 (RPO L71) High alloy steel Length (center to center)
Vo. 250 Cu. h
V8-350 Cu.in. 5,695-5,705 V8-427 Cu.in. 6,130-6,140
CONNECTING ROD BEARINGS
Material Premium aluminum
Type
Clearance
V8-350 Cu.in00070027
VB-427 Cu.in. (RPO L36 & L68)00090029
V8-427 Cu.ln. (RPO L71)0014-,0034
Theoretical I.D.
V8-350 Cu.in 2.1017
Vs_427 Cu.in (RPO L36 & L68) 2,2014
V8-427 Cu.ln. (RPO L71) 2,2019
Effective Length
V8-350 Cu.ln807
V8-427 Cu.in857
End Play
V8-350 Cu.in ,009-,013
V8-427 Cu.In

FUEL-EXHAUST AND VENTILATION SYSTEM

FUEL SYSTEM

FUEL TANK Capacity (Gal) 20 (approximately) Location in body cavity at rear of deck area Filler Location Center of rear deck lid	CARBURETORS Make & Type V8-350 Cu.in
FUEL FILTERS, DUAL in Fuel Tank Carburetor Inlet V8-350 & 427 (1.36) Cu, in, (addition) Paper element with vacuum return fuel line	Throttle Bore -V8-350 & 427 Cu.in. (RPO L36) Primary
Type Diaphragm Drive Camshaft excentric Location Lower right front of engine Pressure Range (shut off pressure at 1800 RPM) All Engines 7,50-9,00 PSI at pump outlet	Venturi Diameter V8-350 & 427 Cu.ln. (RPO L36) Primary Secondary V8-427 Cu.in. (RPOL68 & L71) Primary (No. 1) Secondary (No. 2 & 3) Secondary Thrortle Acquation V8-350 & 427 Cu.ln. (RPOL68 & L71) Primary (No. 2 & 3) By linkage
AIR CLEANER Type V8-350 & 427 (RPO L36) V8-427 (RPO L68 & L71) Triangular shaped, chrome plated	approximately when primary valves are opened half between closed and open
Filter Element Oil-wetted paper V8-427 (RPO 146 & 71) Polymethere	Type - Automatic

EXHAUST AND VENTILATION SYSTEM

ENIMOUT ATTO	
EXHAUST SYSTEM	EXHAUST PIPES
Type Dual with no resonators	Type Two piece; from and rear assemblies
••	Material Seamless steel tubing
	Dimensions (O.D.)
	Wall Thickness
	Front Pipes067081
	Rear Pipes
•	
MUFFLERS	TAIL PIPES
Type Dual, reverse flow	Material Stainless steel
Construction Heads and body joined	Dimensions (O.D.)
by railed lock seam construction	Wall Thickness .062072
Shell	Wall Imckness
Right Hand	₩°.
Left Hand ,036 sheet steel aluminum coating	mant toward (TA)
Wrap	ENGINE VENTILATION Type Closed-positive
Cover	Type Closed-positive
Heads	
Baffles 3; _036 sheet steel aluminum coating	The same of the same same same same same same same sam
Length, Body 17,80	AIR INJECTION REACTOR EQUIPMENT Type Air injected
Width (LD.) 9,25	
Height (LD.) 5,00	into exhaust ports crankshaft driven pump

LUBRICATION SYSTEM

GENERAL

GENERAL	O 114 6.11 STRONITE
Туре	Controlled full pressure Pressure
Main Bearings	Dynamire
Connecting Rods	Pressure Splash
Parasa Dina assesse	
Cylinder Walls	Pressure, jet cross sprayed
Camshaft Bearings -	Pressure Pressure
ARTAC THICKE	Pressure
MOUNTEL VITTING	Centrifugally ofled from front
Timing Gears	camshaft bearing
	Electric
	Unit Electric
On Filler	Positive scal
OEP .	
Location	- 41.6
TO SEC CO To	Top rear of left rocker cover
TO SEC CO To	Top rear of left rocker cover Top center of right rocker cover
V8-350 Cu.in V8-427 Cu.in	Top center of right rocker cover
V8-350 Cu.in V8-427 Cu.in	Top center of right rocker cover
V8-350 Cu.in V8-427 Cu.in OIL PUMP Type Normal Oil Pressure	Top center of right rocker cover
V8-350 Cu.in V8-427 Cu.in OIL PUMP Type Normal Oil Pressure V8-350 Cu.in	Gear (Bench test-no flow conditions)
V8-350 Cu.in V8-427 Cu.in OIL PUMP Type Normal Oil Pressure V8-350 Cu.in	(Bench test-no flow conditions) 50-65 PSI @ 2000 RPM
V8-350 Cu.in V8-427 Cu.in OIL PUMP Type Normal Oil Pressure V8-350 Cu.in V8-427 Cu.in	Gear Gear
V8-350 Cu.in V8-427 Cu.in OIL PUMP Type Normal Oil Pressure V8-350 Cu.in V8-427 Cu.in Intake Type Capacity (GPM @ Eng	(Bench test-no flow conditions) 50-65 PSI @ 2000 RPM 50-75 PSI @ 2000 RPM
V8-350 Cu.in. V8-427 Cu.in OIL PUMP Type Normal Oil Pressure V8-350 Cu.in V8-427 Cu.in Intake Type Capacity (GPM @ Eng	Gear (Bench test-no flow conditions)
V8-350 Cu.in V8-427 Cu.in V8-427 Cu.in V8-350 Cu.in V8-427 Cu.in V8-427 Cu.in Intake Type Capacity GPM @ Eng V8-350 Cu.in V8-427 Cu.in V8-427 Cu.in	Gear (Bench test-no flow conditions)
V8-350 Cu.in V8-427 Cu.in OIL PUMP Type Normal Oil Pressure V8-350 Cu.in V8-427 Cu.in Intake Type Capacity (GPM @ Eag V8-350 Cu.in	Gear (Bench test-no flow conditions)
V8-350 Cu.in V8-427 Cu.in V8-427 Cu.in V8-427 Cu.in V8-350 Cu.in V8-427 Cu.in V8-427 Cu.in Intake Type Capacity (GPM @ Eng V8-350 Cu.in V8-427 Cu.in Regulator Valve	Gear (Bench test-no flow conditions) 50-65 PSI @ 2000 RPM 50-75 PSI @ 2000 RPM Fixed RPM) 4,3 @ 2000 6 @ 2000 Opens between 40-45 lbs
VB-350 Cu.in V8-427 Cu.in V8-427 Cu.in OIL PUMP Type Normal Oil Pressure V8-350 Cu.in V8-427 Cu.in V8-427 Cu.in V8-427 Cu.in V8-427 Cu.in Capacity (GPM @ Eng V8-350 Cu.in V8-427 Cu.in Coll. DIP STICK - LOCA	Gear (Bench test-no flow conditions)
VB-350 Cu.in V8-427 Cu.in V8-427 Cu.in OIL PUMP Type Normal Oil Pressure V8-350 Cu.in V8-427 Cu.in V8-427 Cu.in V8-427 Cu.in V8-427 Cu.in Capacity (GPM @ Eng V8-350 Cu.in V8-427 Cu.in Coll. DIP STICK - LOCA	Gear (Bench test-no flow conditions)

OIL PAN CAPACITY (Quarts)	
Refill	4.0
V8-350 Cu,in	5.0
V8-427 Cu,in.	0,0
Refill with Filter Change	5.0
Refill with Filter Change V8-350 Cu.in. (Base)	6.0
V8-427 Cu.in.	0.0
OIL FILTER Type Location Capacity By-pass Valve Full flow, throwaway can Left rear underside of concepts between 9 to drop in pro-	quart 11 PSI
LUBRICANT GRADES AND TEMPERATURES 32°F and Above SAE20W or SAE1 0°F to 32°F SAE5W or SAE5 Below 0°F SAE5W or SAE5 SAE5W 30 can it sae5W-30 can it temperatures below from the same saes at temperatures below from the saes at temperatures at temperatures below from the saes at temperatures below from the saes at temperatures at temperatures at temperatures below from the saes at temperatures at	5W-20 be used
Oil PAN Type of Drain Plug Location Size Hex Head Thread Length Diameter Oil PAN H Lower rear face of oil pa 8 1/2-20	60875 UNF 2A

COOLING SYSTEM

GENERAL	THERMOSTAT
Type Liquid, pressurized	Type Pellet
V8-350 Cu.in Internal by-pass	Begins to Open at 192*-198*F
V8-350 Cu.in. (RPO L46) External by-pass	Fully Opened at 217°F
V8-427 Cu.in, External by-pass	•
Caracity (with Heater)	
V8-350 Cu.In 15 Qts.	RADIATOR HOSE
V8-427 Cu,in, 22 Qts.	Outlet, Lower (Radiator to Water Pump)
	V8-350 Cu.In 1,75 L.D.
	V8-427 Cu.In 1,88 I.D.
RADIATOR	Inlet, Upper (Thermostat Housing to Radiator)
Туре	V8-350 Cu,In, 1,50 L, D,
VB-327 Cu.ln Aluminum, cross-flow	V8-427 Cu,In 1.50 I.D.
V8-427 Cu.in. Copper-brass, cross-flow	
Core Constant and Thickness	•
Distance between Fins	BY-PASS THERMOSTAT HOSE
V8-350 Cu.in ,18	V8-427 Cu,In,725-,765 L.D.
V8-427 Cu,in16	
Distance between Tubes55	
Thickness of Core	BELTS; CRANKSHAFT, FAN AND GENERATOR
V8-350 Cu.ln 2.88	Number Used Two
V8-427 Cu.ln 2.70	Angle of "V" 38°-42°
Frontal Area (Sq. in.)	Pitch Line
V8-350 Cu.in. 315	Fan, Generator and Water Pump Belt
V8-427 Cu.in 467	V8-350 Cu.in 54.00
	V8-427 Cu,In, (RPO L36 & L68) 53,75
	V8-427 Cu.In. (RPO L71) 54.50
SURGE TANK (350 Cu.In. Only)	Fan and Water Pump Belt
Location Right side engine compartment	V8-350 Cu,in, 35,14
connected by hosing to top of radiator	V8-427 Cu.in 31.86
Capacity 2,3 Qts.	Width,380
Fill Requirements Half full when weather is cold	
RADIATOR CAP RELIEF VALVE	WATER PUMP
Opens at Approximately 15 PSI	Type Centrifugal
	Capacity (GPM @ Engine RPM)
	V8-350 Cu.In 57 € 4400
FAN	V8-427 Cu.In. 82 @ 5200
Number of Blades 5, staggered	Bearing Permanently lubricated double row ball
Diameter 17,50	Drive Fan belt
Fan Pulley Pitch Diameter 7.00	Ratio (Pump to Engine RPM),949:1
Drive	
Type Thermomodulated fluid coupling	
Performance at 4000 RPM input At 135° and below	DRAIN LOCATIONS AND TYPE
fan speed 800 to 1800 RPM: at 170°F	Radiator Left hand, rear lower face
and below, fan speed 2300-2600 RPM	Engine Block Plug; right and left center

ELECTRICAL SYSTEM

SUPPLY SYSTEM BATTERY Voltage Cranking Power @ O° F Total Number of Plates Number of Cells Terminal Grounded Location In passenger compartment behind driver	Motor Drive Engagement Solenoid Pinion Mashes at Rear Pinion Tooth No. 153; V8-427, 168 Mounting Bolted to clutch housing IGNITION SYSTEM DISTRIBUTORS Refer to chart below
Diode rectified Type	COIL Type
Pulley Pirch Diameter 2.70 Ratio (Gen to Engine Speed) 2.46:1	Engine Idling 1.8
Type Two unit; vibrator	
Voltage Regulator	SPARK PLUGS
Voltage 13,8-14.8 @ 85°F	Make & Type
Field Relay (Combination Light & Field Relay)	V8-350 Cu.in. (Base)
Closing Voltage 1-3 Volts @ 80°F	V8-350 Cu,in, (RPO LA6) ACA3N
Location Right side front engine compartment	Thread Size (mm)
	Gap
STARTING SYSTEM STARTING MOTOR	Torque 25 lb. ft.
Rotation (Drive End View) Clockwise	
Test Conditions Engine at operating temperature	
No Load Test	CABLE Linen core impregnated
Amps	with electrical conducting material and
RPM 3600-5100 (350); 7800-12000 (427)	insulation of rubber with neoprene jacket

DISTRIBUTORS	V-8 350 Cu.in. Base 300 HP	V-8 350 Cu_in_ RPO L46 350 HP	V-8 427 Cu, in. RPO L36 390 HP	V-8 427 Cu,In, RPO L68 400 HP	V-8 427 Cu,in, RPO L71 435 HP	
Model	1111490 1111493 1111926		1111928			
Туре		Single I	Breaker		Transistorized	
Cam Angle		28° - 32°				
Breaker Gap		,019 (new)				
Breaker Arm Tension	19 -	23 oz		32 oz		
Centrifugal Advance Begins (RPM)	900	900		00	900	
Max Degrees @ RPM	30 @ 5100	26 € 5000	26 €	380C	30 @ 3800	
Vacuum Advance Begins (In, Hg)	6,00	7,00	7.	8,00		
Max Degrees @ in, Hg	19 @ 17	12 @ 12	12 € 12		15 @ 15,5	
Timing (Initial Design Setting) Crankshaft Degrees @ RPM (with vacuum spark line disconnected)	4 BTC @ 700 manual 600 auto	8 BTC @ 750 manual only	4 BTC @ 800 manual 600 augo	4 BTC @ 750 manual 600 auto	4 BTC @ 750 manual only	
Timing Mark Location Torsional Damper						

CLUTCHES AND TRANSMISSIONS

CLUTCHES

				141163				
	Туре	v-8 350 Cubic Inch			V=8 427 Cubic Inch			
Engine	Availabili	ity	Regular Production RPO L46 RPO L36 & L68 RF					
Clutch for			3-Speed & 4-Speed 4-Speed		4-Sp	eed		
Туре			ł	Single dry (lisc, centrifugal			
Clutch	Eff. plate	load, lbs.	2450-7750 2450-2750 260					
cover &	Press, pl	ate matl		Nodi	ilar iron	ar iron		
pressure	Chutch sp	ring type	Cı	rcular plate diaph	ragm, bent finger design			
plate	Chutch sp	ring matl,			ed spring steel			
	Туре		i	Single disc with two friction surfaces				
	Cushions		Flat spring steel between friction rings					
	Dampera			10 coil sprin	gs (5 sets of two)			
Driven		OD	10,3	14	11,	,00		
plate	Priction	ID	6,5	10	6,	6,50		
_	1	Total area	101,54		123,70			
	rings	eq.in.	101,54					
	·	Material			ype asbestos			
	Material				ated HR steel			
50	Ring	No, of teeth	153		16			
Plywheel	gear	PD	12_7	5	14.0	00		
		Attachment		Sh	rink fit			
	Release	Туре	I	Singl	e row ball			
Bearings	Release Lubrication		None, prepacked					
near mgs	Pilot Type		Bronze bushing					
	7.200	Lubrication	None, sintered and oil impregnated					
	Clutch fork		Drop forged steel, pivot mounted on ball					
Controls	Pedal mounting		Pendam, from brace on dash					
	Lubrication				over shaft			
Chitch hous	ing materi	al .		Alum	inum alloy			

3-SPEED AND 4-SPEED TRANSMISSIONS

Transmissis	ransmission Type		3-Speed 4-Speed RPO M20			M20	4-Speed	RPO M21	
Engine	Туре		V8-350 Cu.In.				V8-350 Cu.ln.	V8-427 Cu.In.	
Application		lity	Standard	Standard	RPO L46	L36 & L68	RPO L46	L36, L68 & L71	
Case mater			Cast iron	Aluminum					
Coop	Туре		Remote						
Gear	Comrol		Lever						
Shift	Location	1			Floor, mount	ed between seats			
	Туре			Helical					
	Materia			Forged steel, hardened					
	Synchronization		All forward gears						
	Constant mesh gear		All gears	ars All forward gears					
Gears	Sliding gears		None	Reverse					
Gerre	Ratios	First	2,54	Γ	2,52		2	20	
		Second	1,50		1,88		1,	64	
		Third	1,00		1,47		1,	27	
	1	Fourth	- m	3	1.00			.00	
	1	Reverse	2_63		2,59		2	26	
	Туре		Meeting Military Specification MIL-L-2105-B						
Lubricant	Capacity (pts)					3			
P	Material		Cast iron	Aluminum					
Extension	Oil seal		Ï	Steel encased double seal of spring loaded rubber or felt					

TURBO HYDRA-MATIC TRANSMISSION (RPO M40)

ENERAL DATA	
Type Three	
element automatic hydraulic torque converter	
with a compound planetary goar set that	
produces three forward speeds and reverse	
produces three lotward shoots and this	
Selector Lever	
Location	
on models using bucket seats	
Operation Actuates automatic	
controls by a hydraulic system	
from a pressurized gear type pump	
Quadrant Pattern Six positions: P-R-N-3-2-1	
Paternal Control Connections	
Manual Linkage Selects destred operating	
range by means of selector lever	
Vacuum Modulator Senses change	
in the torque input to the trans-	
mission and assures smooth shifts	
Detent Solenoid Actuated by electric switch or	
the carburetor causing the transmission	
to downshift under full throttle conditions	
at car speeds below 70 miles per hour	
Parking Lock	
Type Locking pawl	
Operation Applied by selector	
lever through manual linkage	
Method of Cooling Water	
Mathod or Countil	

TORQUE CONVERTER	
Driving Member (Pump)	Multivane
type,	sheet metal blade, spot welded
to s	teel pump bousing that is an
	ral part of the converter housing
	Steel axial
	flowblades assembled between
*	inner and outer steel shells
Stator Assembly	Aluminum multivane type
	numed on a one way roller clutch
	2,10
	2100
	12,20
CLUTCHES	
Type	Three, multiple disk
Material	
Drive plates	Waved steel
Ť	with bonded organic facings
Driven plates	Flat steel
Forward clutch	Pive each
	drive and driven plates
Direct clutch	Five each
	drive and driven places
Intermediate clutch	Three each
	drive and driven plates
Release spring	Radial row stool coil

TRANSMISSIONS —Cont'd.

PLANETARY GEAR U	
Front - Reaction	carrier and
	steel pinion gears
Rear - Output o	errier anny Four
	steel pinion gears
Gear Ratios	***
"3"	2.48:1, 1.48:1, 1.00:1
"2"	2.48:1, 1.48:1
"1"	2.48:1
R (Reverse) -	2,06:1
Front Band	One, circular siteel with organic lining
**	One, circums sheet with organic maing
Function	
	engine threating in 2nd goar with selector level in "2" and "1" range
Barre Barre	OCTUT SOUR THE T THE T THE P
Rear Band	Double wrap
Туре	circular steel with organic lining
Function	Provides engine braking
Puperion	Lo reme list gear; also in reverse
	range she hand holds the reaction
	carrier compply reverse gear ratio
Servo units	Piston with
	releasewhring and inner cushion
	spring what activates the bands
	. 44
	, r s∎
	341
	* em
	- W
LUBRICANT	;an
Type	A suffix A
Capacity	22 pts
Refill	8 pts
Oil cooler	
	radiator emissionly and connected to transmission by inlet and outlet pipes

fydraulic system	
Oil pressure pump	Supplies
	hydraulic pressure by gear type
	pump which is engine driven
Pump pressure (450 F	(PM input @ 25 in, Hg vacuum)
Park	70 PSI
Neutral	70 PSI
"3" (First, second	, third) 70 PSI
"" Given accord) 150 PSI
(41)	150 PSI
Reverse	107.5 PSI
Valves	
Туре	Steel spool
Manual	Establishes range
	at transmission operation
Pressure regulator	Controls
	main line pressure
Shift (1-2)	Controls oil pressure
	for trans, shift from 1-2 or 2-1
Shift (2-3)	Controls oil pressure
	for trans, shift from 2-3 or 3-2
	Regulates line pressure
	rith modulator oil pressure that
	aries with torque to transmission
Accumulator	To obtain greater flexibility
	in attaining desired shift curve
	for various engine requirements
Governor	
Type	Cross-axis centrifugal
Operation	Regulates a pressure
proportion	al to car speed which acts upon the
(1-2)(2-3)	shift valves and modulator valve
TORQUE MULTIPLICAT	ION
	5,21 to 1.00
1'2''	5,21 to 1,48
"1"	5,21 to 2.48
Paragea	4.37 to 2.08