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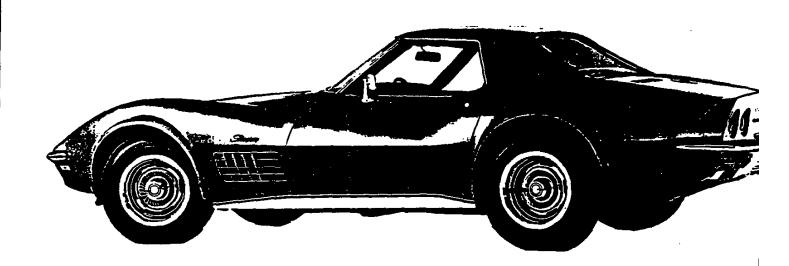
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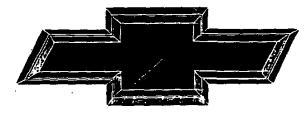
C_JCHEVAULE

1971

CORVETTE

SPECIFICATIONS





GENUINE CHEVROLET

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1971 CORVETTE

Production: 14,680 coupe, 7,121 convertible, 21,801 total.

1971 NUMBERS

Vehicle: 194371S100001 through 194371S121801

· For convertibles, fourth digit is a 6.

Suffix: CGT: 350ci, 270hp, at CGY: 350ci, 230hp(7P1), a

CGY: 350ci, 330hp(ZR1), mt CGZ: 350ci, 330hp(LT1), mt CJK: 350ci, 270hp, at

CJL: 350ci. 270hp. mt

Block: 3970010: 350ci, 270hp, 330hp

3963512: 454ci, 365hp, 425hp

Head: 3946074: 454ci, 425hp 3993820: 454ci, 365hp 3973487: 350ci, 270hp, 330hp 3994026: 454ci, 425hp (uu)

Carburetor: Rochester Q-jet #7041204: 454ci, 365hp, at

Rochester Q-jet #7041205: 454ci, 365np. mt Rochester Q-jet #7041212: 350ci, 270hp. at Rochester Q-jet #7041213: 350ci, 270hp. mt Holley R4801A #3989021: 350ci, 330hp. mt Holley R4802A #3986195: 454ci, 425hp. mt Holley R4803A #3986196: 454ci, 425hp. at

Distributor: 1112038: 350ci, 330hp, ig 1112053: 454ci, 425hp, at, ig 1112050: 350ci, 270hp 1112076: 454ci, 425hp, mt, ig

1112051: 454ci, 365hp

Alternator: 1100543: 454ci, 365hp, 425hp 1100544; All with ac

1100950: 350ci. 270hp, 330hp

Sep 70: 102226 Feb 71: 110886 Jun 71: 120686

CPH: 454ci, 365hp, mt

CPJ: 454ci, 365hp, at

CPW: 454ci, 425hp, mt, ah

CPX: 454ci, 425hp, at, ah

Nov 70: 102675 Mar 71: 113626 Dec 70: 105269 Apr 71: 115983

Abbreviations: ac=air conditioning, ah=aluminum heads,

at=automatic transmission, ci=cubic inch, hp=horsepower, ig=transistor ignition, mt=manual transmission, uu=uncertain usage.

1971 FACTS

- The 1971 Corvette was one of the least-changed in appearance. A labor dispute in May 1969 caused 1969 production to run long, shortening normal 1970 production by over four months. Chevrolet then treated 1971 Corvette production as an extension of 1970. Plus, GM directed its divisions to reduce octane requirements in 1971 engines, an effort which carried a higher priority than appearance changes.
- With the exception of RPO LS6, 1971 engines were detuned variants of 1970 engines. GM's intention in reducing octane requirements to 91 (research) in 1971 was to give oil companies phase-in time for the unleaded fuels needed for catalytic converters still four years away.
- The 454ci LS6 engine with 425hp was designed to operate on low-lead fuel, but a comparable engine was not available in 1970, so it won the horsepower race for the two years despite it's lower octane appetite. It featured aluminum heads and could be combined with an automatic transmission, although not when combined with the ZR2 package.
- One visible clue to a 1971's outward appearance was amber parking light lenses, although very early production had clear lenses.
- The 1971 Corvette was the last model to feature the fiber-optics light monitoring system. It's thought the cost savings permitted inclusion of the optional anti-theft alarm system as standard equipment the following year.

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1971 OPTIONS

RPO#	DESCRIPTION	QTY	RETAIL \$
19437	Base Corvette Sport Coupe	14.680	\$5,496.00
19467	Base Corvette Convertible	7,121	5,259.00
	Custom Interior Trim	2.002	158.00
A31	Power Windows	6,192	79.00
A85	Custom Shoulder Belts (std with coupe)	0//	42.00
C07	Auxilian Hardton (for convertible)	2.619	274.00
C08	Vinyl Covering (for auxiliary hardtop)	832	63.00
C50	Rear Window Detroster	1,350	42.00
C60	Air Conditioning	11,481	459.00
	Optional Rear Axle Hatto	2,353	13.00
J50	Power Brakes	13,558	47.00
LS5	454ci 365hp Engine	5,097	295.00
LS6	454ci 425ho Engine	155	1,221.00
LT1	250a: 220ba Engine	1.949	483.00
M21	A-Speed Man Trans, close ratio	2,567	0.00
M22	4-Speed Man Trans, close ratio, neavy of	жу 130	100.00
M40	Turbo Hydra-Matic Automatic Transmission	10,060	0.00
N37	Tilt-Telescopic Steering Column	8,130	54.3 0
N40	Power Steering	17, 904	115.50
P02	Deluxe Wheel Covers	3,007	63.00
PT7	White Strine Tires, F70x15, nvlon	6,711	28.00
PU9	White Letter Tires, F70x15, hylon	12,449	42.00
T60	Heavy Duty Battery (std with LS5, LS6)	1,455	15.60
UA6	Alarm System	۱ ۵۰۰۰ تا	31.00
U69	AM-FM Radio	15,0/0	1/0.00
U79	AM EM Padio stereo	3.431	283.00
ZR1	Special Purpose LT1 Engine Package	ک	1,010.00
ZR2	Special Purpose LS6 Engine Package	14	1,747.00
• A 350	nci, 270hn engine, 4-speed wide-ratio mani	uai transr	nission, vinyi
interior	trim, and soft ton (conv) or T-tops were incli	uaea in tn	e base price.
. The 7	'Rit included the LT1 engine, M22 transmiss	ion, neav	y-duty power
brakec	transistor ignition, special aluminum (adia)	or, and sp	eciai springs,
chacks	e and front and rear stabilizer bars (ZHT)S Ni	ave appea	ared with and
withou	t rear stabilizers). ZR1s also had metal far	shrouds.	. RPOs A31.

without rear stabilizers). ZR1s also had metal fan shrouds. RP C50, C60, N40, P02, UA6, U69 and U79 were not available with ZR1. • The ZR2 package was similar to ZR1, except ZR2 included RPO LS6, the

454ci, 425hp engine.

• Custom interior included leather seat trim, wood-grain accents and lower carpet trim on interior door panels, wood-grain accents on console, and special cut-pile carpeting.

•M40 was no cost with the base 350ci, 270hp engine, but cost \$100.35 with LS5 or LS6. It was not available with LT1, ZR1 or ZR2.

1971 COLORS

CODE					INTERIORS
905	Nevada Silver	1,177	Bk-W	Silver	Bk-Db-Dg-R
912	Sunflower Yellow	1.177	' Bk-W	Silver	Bk-Dg-S
972	Classic White	1.875	Bk-W	Silver	Bk-Db-Dg-R-S
973	Mille Miglia Red	2 180	Bk-W	Silver	Bk-R
976	Mulsanne Blue	2 465		Silver	Bk-Db
	Didente Dide	1 417		Silver	Bk-Db
979	Bridgenampton Blue	7.445		Silver	Bk-Da
983	Brands Hatch Green	3,445			
987	Ontario Orange	.2.269	Bk-W	Silver	Bk-Dg-S
988	Steel Cities Gray	. 1,591	Bk-W	Silver	Bk-S
989	War Ronnet Yellow	. 3.706	S Bk-W	Silver	Bk-Dg-S
		~L	bino	HODE WOFE	poccible

 Suggested interiors shown. Other combinations were possible. • Exterior color quantity total is 499 short of total production.

Interior Codes: std=Bk/V, 402=Bk/L, 407=R/V, 412=Db/V, 417=S/V, 420=S/L, 423=Dg/V.

Abbreviations: Bk=Black, Db=Dark Blue. Dg=Dark Green, L=Leather. R=Red, S=Saddle, V=Vinyl, W=White.

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The Corvette Black Book

1953-1993

October 1992

Published by

Michael Bruce Associates, Inc Michael Antonick, President Post Office Box 396 Powell, Ohio 43065



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SECTION 0 GENERAL INFORMATION AND LUBRICATION

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GENERAL INFORMATION

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MODEL IDENTIFICATION

Series	Model	Number	December
	6-Cyl.	V-8	- Description
Biscayne	15369	15469	4-Door Sedan, 6-Pass.
Brookwood	_	15435	4-Door Station Wagon, 2-Seat
Bel Air	15569	15669	4-Door Sedan. 6-Pass.
Townsman		15835	4-Door Station Wagon, 2-Seat
		15845	4-Door Station Wagon, 3-Seat
	16369	16469	4-Door Sedan, 6-Pass.
Impala		16439	4-Door Sport Sedan, 6-Pass.
	16357	16457	2-Door Sport Coupe, 5-Pass.
	_	16467	2-Door Convertible, 5-Pass.
Kingswood	-	16435	4-Door Station Wagon, 2-Seat
		16445	4-Door Station Wagon, 3-Seat
Impaia Custom		16447	2-Door Sport Coupe, 5-Pass.
Caprice	-	16639	4-Door Sport Sedan, 6-Pass.
		16647	2-Door Sport Coupe, 5-Pass.
Kingswood Estate	- "	16635	4-Door Station Wagon, 2-Seat
	_	16645	4-Door Station Wagon, 3-Seat
Nomad	13136	13236	4-Door Station Wagon, 2-Seat.
Camaro	12387	12487	2-Door Sport Coupe 4-Pass.
Greenbrier	13336	13436	4-Door Station Wagon, 2-Seat
		13446	4-Door Station Wagon, 3-Seat
	13569	13669	4-Door Sedan, 6-Pass.
Malibu	13539	13 63 9	4-Door Sport Sedan, 6 Pass.
	13537	13637	2-Door Sport Coupe, 5-Pass.*
	13567	13667	2-Door Convertible. 5-Pass.*
Concours	13536	13636	4-Door Station Wagon, 2-Seat
		13646	4-Door Station Wagon, 3-Seat
Monte Carlo	-	13857	2-Door Custom Coupe, 5-Pass.*
Concours Estate		13836	4-Door Station Wagon, 2-Seat
		13846	4-Door Station Wagon, 3-Seat
El Camino	13380	13480	2-Door Sedan Pickup, 3-Pass. Deluxe
	13580	13680	2-Door Sedan Pickup, 3-Pass. Malibu
	11327	11427	2-Door Sport Coupe. 5-Pass.
Nova	11369	11469	4-Door Sedan, 6-Pass.

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

VEHICLE DIMENSIONS

BISCAYNE, BROOKWOOD, BEL AIR, TOWNSMAN, IMPALA, KINGSWOOD, IMPALA CUSTOM CAPRICE, KINGSWOOD ESTATE

Model	Sedan	2-Door Sport Coupe	Convertible Coupe	Station Wagon
Length Overall	216.4"	216.4"	216.4"	223.2"
Width Overall (Body)	76.5"	79.5"	79.5"	79.5"
Height Overall	54.1"	53.6"	53.5"	57.1"
Wheelbase	21.5"	121.5"	121.5"	125.0"
Tread-Front	63.8"	63.8" -	63.8"	64.1"
Tread-Rear	63.7"	63.7"	63.7"	63.0"

NOMAD, 300 DELUXE, GREENBRIER, MALIBU, CONCOURS, CONCOURS ESTATE WAGON, EL CAMINO

Model	Sedan	2-Door Sport Coupe	Convertible Coupe	Station Wagon	Sedan Pickup
Length Overall	201.2"	197.2"	197.2"	207.5"	207.5"
Width Overall (Body)	75.4"	75.4"	75.4"	75.4"	75.4"
Height Overall	53.3"	52.7"	52.9"	54.4"	54.4"
Wheelbase	116.0"	112.0"	112.0"	116.0"	116.0"
Tread-Front	60.0"	60.0"	60.0"	59.3***	59.3***
Tread-Rear	59.9"	59.9"	59.9"	59.2"	59.2"

MONTE CARLO

CAMARO

NOVA

Model	Custom Coupe
Length Overall	205.8"
Width Overall (Body)	75.6"
Height Overall	52.9"
Wheelbase	116.0"
Tread-Front	60.2"
Tread-Rear	59.3"

Weight:	Custom	Coupe	3564	lbs.
weight.	Castom	Coupe	2004	wa.

Model	Custom Coupe
Length Overall Width Overall (Body) Height Overall	188.0" 74.4" 50.1" 108.0" 60.6" 60.0"

Weight: With L6 Eng. 3167 lbs. With V-8 Eng. 3313 lbs.

Model	Sedan	2-Door Sport Coupe
Length Overall Width Overall (Body) Height Overall	189.4" 72.4" 53.9" 111.0" 59.0" 58.9"	189.4" 72.4" 52.5" 111.0" 58.9" 58.9"

Curb Weight: Approximately 3028 lbs. with L-6 Engine; 3169 with V-8 Engine.

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	182.5'' 69.2'' 47.9'' 98.0'' 58.7'' 59.4''	4 7.8''
Curb Weight: 3220 lbs. 3210 lbs. with Base	Sport Coupe	

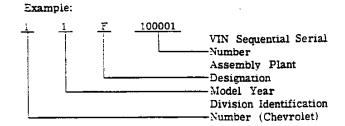
SERIAL NUMBERS

For the convenience of servicemen when writing up certain business papers, such as Warranty Claims 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:

VIN Sequence
000001
_
<u>10</u> 0001

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 Paint Plate	15-16000 Series 13000 Series 11000 Series 12000 Series 19000 Series	Upper right-hand side of dash panel Upper left-hand door hinge pillar
Engine and Transmission Vehicle Identification Number	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 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	All	On cell cover segment, top of battery

Vehicle Serial Number

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

Manufacturer		Modei	Assembly	Unit
Identity ¹		Year	Plant 4	Numbers
1	5645	1	.	100025

- : Manufacturers identity number assigned to all Chevrolet built vehicles.
- See Model Identification in this section.
- 3 Last number of model year (1971).
- tr. Flint
- ⁵Unit numbering will start at 000,001 or 100,001 depending on the vehicle.

KEYS AND LOCKS

Four keys (two rectangular head and two oval head) are provided with each venicle. 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, TO START ENGINE

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 patteries in excess of 12 volts and connect positive to positive and negative to negative.

MANUAL TRANSMISSION

When a push start is necessary rurn 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 VEHICLES

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.

LIFTING VEHICLES

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 through 5 the shaded areas indicate areas recommended for hoist contact.

LIFTING THE CORVETTE

Shaded areas in Figure 5 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-in 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 axie work is contemplated, use either suspension adapters or drive-on adapters at the front and frame lift adaptors 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 6 are necessary to allow beam to clear exhaust system.

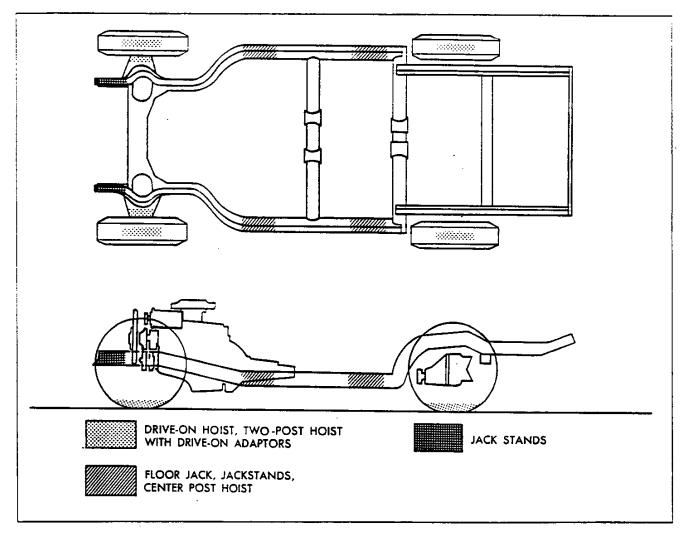


Fig. 5-Vehicle Lifting Points-19000 Series

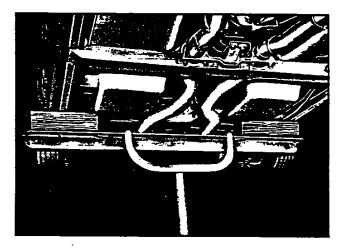


Fig. 6—Frame Lift Adapters—19000 Series

LUBRICATION

	. 420
Engine	3-10
Grankcase Citacities	J= ; U
Lubrication	
SAE Viscosit Oils	
Types or Oils	
Maintaining Ci. Level	ilاخن
Engine Oil Change interval	- 0-11
Crankcase Dilation	211
Crankcase Ventilation	0-11
Positive Crankcase Ventilation (P.C.V.) Valve	0-11
Air Injection Reactor (A.I.R.)	0-i i
Controlled Compusion System (C.C.S.)	0-12
GM Evaporation Control System (E.C.S.)	û-12
Manifold Heat Control Valve	0-12
Engine Oil Filter	0-12
Air Cleaner	0-12
Oil Wetted Paper Element Type	V-1.
- 1 Tile-	

Distributor Cam Lubrica	ato	r									
Rear Axie											
Transmission							٠				
3 and 4-Speed								٠			
Control Linkage											
Clutch Cross Shaft							٠				
Automatic Transmissions											
Chassis										٠	
Chassis Lubrication											
Front Wheel Bearings											
Brake Master Cylinder									٠		
Parking Brake											
Steering Gear											
Electrical											
Battery Care (Energize:	F)					-					
Dual Action Safety Hood	La	tc	he	5							
Air Conditioning											
Body Lubrication											
Body Lubrication Points											

Page

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

6 Cylinder																	4 qt.
8 Cylinder	(307)		-									-	•	•	-	-	4 qt.
8 Cylinder	(350)										٠	•	•	٠	•		4 qt.
8 Cylinder	(400)													•	•		4 qt.
8 Cylinder	(402)												•	٠			₫ qt.
8 Cylinder	(454)																4 qt.
With filte	r chai	nge;	а	dd	1	q	t.	for	6	a	nd	8	C	yl	•	en	gines.

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

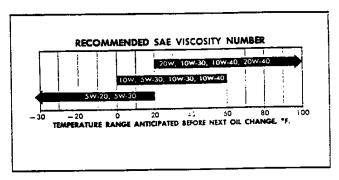
SAE Viscosity Numbers indicate only the viscosity or

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 30, 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 5W-30. SAE 5W-20. SAE 10W-40W, 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-20 oil is not recommended for sustained high speed driving.
- SAE 30 oils may be used at temperatures above 40°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 narmful products and to assure the use of oil best stitled for present day operating conditions, automobile manufacturers have developed a series of sequence tests designed to evaluate the ability of any oil to properly impricate 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 for GM Standard 6041-M) be used in Chevrolet engines. Certified sequence tested oils will be described as such an 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 on 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. In certain types of service including trailer hauling, extensive idling, snort trip operation at freezing temperatures (engine not thoroughly warmed-up), or in commercial use, such as taxicab, limousine or patrol car service, the oil change interval should not exceed 2 months or 3,000 miles, whichever occurs first.

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 exnaust gas blow-ov. When the engine is not completely warmed up, these vapors condense, combine with the condensed fuel and exnaust gases and form acid compounds in the crankcase.

As long as the gases and internal walls of the crank-case are hot enough to keep water vapor from concensing, no narm 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.

POSITIVE CRANKCASE VENTILATION VALVE

Every 24.000 miles or 24 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.) CONTROLLED COMBUSTION SYSTEM (C.C.S.)

The Air Injection Reactor system should have the drive belt inspected for wear and tension every 12 months or 12,000 miles, whichever occurs first. In addition, complete effectiveness of either 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.

GM EVAPORATION CONTROL SYSTEM

Every 12 months or 12,000 miles (more often under dusty conditions) the filter in the base of the canister must be replaced and the canister inspected.

MANIFOLD HEAT CONTROL VALVE

Every 6,000 miles or 4 months, 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.

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.

Crankcase Ventilation Filter (Located Within Air Cleaner)

If so equipped, inspect at every oil change and replace if necessary. Replace at least every 24,000 miles; more often under dusty driving conditions.

FUEL FILTER

Replace filter element located in carburetor inlet every 12 months or 12,000 miles whichever occurs first. or, if an in-line filter is also used, every 24,000 miles. Replace in-line filter every 24,000 miles.

DISTRIBUTOR

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 80 or SAE 90 GL-5 Gear Lubricant.

Positraction Rear Axles--Use special Positraction lubricant.

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

Manual transmissions--SAE 80 or SAE 90 GL-5 gear lubricant.

Lubricant Additions—Manual Transmission

The lubricant level in the transmission housing should be checked periodically. (Every 6,000 miles or 4 months)

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 hole.

Lubrication Additions—Rear Axle—Standard

Every 4 months or 6,000 miles, whichever occurs first: Check lubricant level, and add lubricant if necessary to fill to level of filler plug hole. Use SAE 80 or SAE 90 GL-5 Gear Lubricant.

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.

Powergiide, Torque Drive, and Turbo Hydra-Matic 350

Every 6,000 miles in 4 months check fluid level on dipstick with engine idling, selector lever in neutral position, jarking brake set and transmission at operating temperature. If fluid level is below full mark on dipstick, and small amount of automatic transmission fluid. Reneck fluid level and again add a small amount of fluid in needed to bring level to full mark. DO NOT OVERFILL.

General Motors DEXRON $\frac{3}{2}$ Automatic Transmission Fluid. Part numbers 1050568, 69, 70 has been especially formulated and tested for use in the automatic transmission. Other Automatic Transmission Fluids identified with the mark DEXRON $\frac{3}{2}$ are also recommended.

Every 24,000 miles (every 12,000 if vehicle is driven: extensively in heavy city traific during hot weather; or is in commercial use, such as a taxicae, limousine or patrol car service, where the engine idles for long periods or is used to pull a trailer; remove fluid from the transmission sump and, in Powergide add 2 quarts* U.S. measure (1-2/3 quarts* Imperial measure) of fresh fluid for Chevrolet and Chevelie; add one and a half (1-1/2) U.S. measure and (1-1/4 quarts Imperial measure) for Nova and Camaro (Powergide and Torque Drive). 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.

*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 and Camaro.

Turbo Hydra-Matic 400

Lubrication for the Turbo Hvdra-Matic 400 will, except for fluid capacity and filter enange 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 (3 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 filter should be replaced.

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 nub 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. On units equipped with disc brakes, use wheel bearing lubricant GM Part No. 1051195 or equivalent. This is a premium high melting point lubricant.

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 or 4 months and maintain 1/4" below lowest edge of each filler opening with GM Hydraulic Brake Fluid Supreme No. 11 or equivalent.

PARKING BRAKE

Every 6,000 miles or 4 months, 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

The steering gear is factory-filled with steering gear lubricant. Seasonal change of this lubricant should not be performed and the housing should not be drained - no lubrication is required for the life of the steering gear.

Every 36,000 miles, the gear should be inspected for seal leakage (actual solid grease - not just oily film). If a seal is replaced or the gear is overhauled, the gear housing should be refilled with #1051052 (13 oz. container) Steering Gear Lubricant which meets GM Specification GM 4673M, or its equivalent.

NOTE: Do not use EP Chassis Lube to lubricate the gear. DO NOT OVER-FILL the gear housing.

Power Steering Pump

On models equipped with power steering gear, check fluid every 6,000 miles or 4 months 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)

Energizer--Check fluid level monthly utilizing the level indicator cap marked "Delco Eye". If the transparent eye within the cap glows, fluid level is low. Add only colorless, odorless drinking water or distilled water to bring level to split ring in filler opening.

DUAL ACTION SAFETY HOOD LATCHES

Every 4 months or 6,000 miles, whichever occurs first, lubricate hood latch assembly and hood hinge assembly as follows:

- Wipe off any accumulation of dirt or contamination on latch parts.
- Apply Lubriplate or equivalent to latch pilot boits and latch locking plate.
- Apply light engine oil to all pivot points in release mechanism, as well as primary and secondary latch mechanisms.
- 4. Lubricate hood hinges.
- Make hood hinge and latch mechanism functional check to assure the assembly is working correctly.

AIR CONDITIONING

Every 6,000 miles or 4 months 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 POINTS (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.

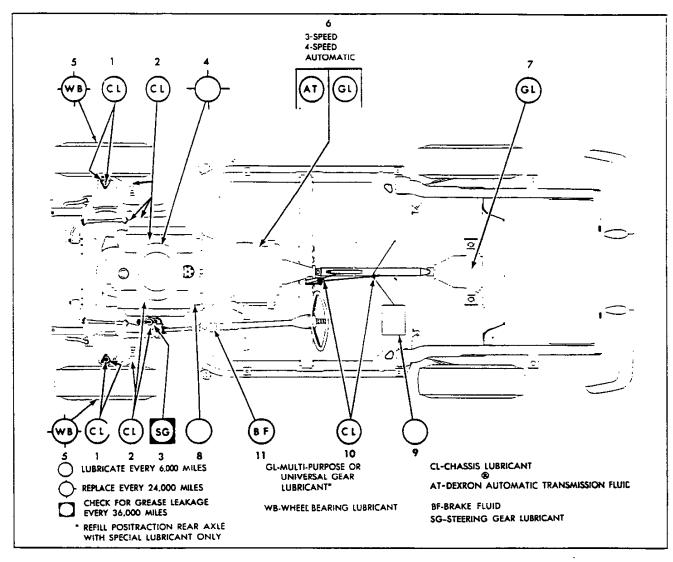


Fig. 11-Lubrication Diagram-19000 Series

- 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 Moster Cylinder

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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 3).

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

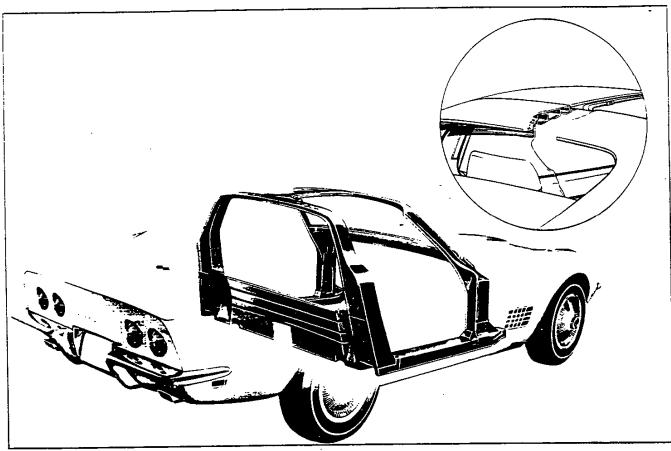


Fig. 1-Steel Reinforcing Members

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 4 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 5.
- 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.

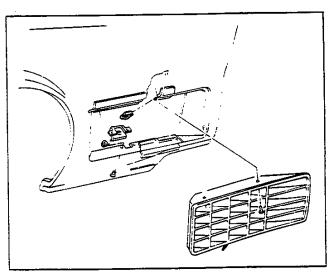


Fig. 2—Fender Side Louver

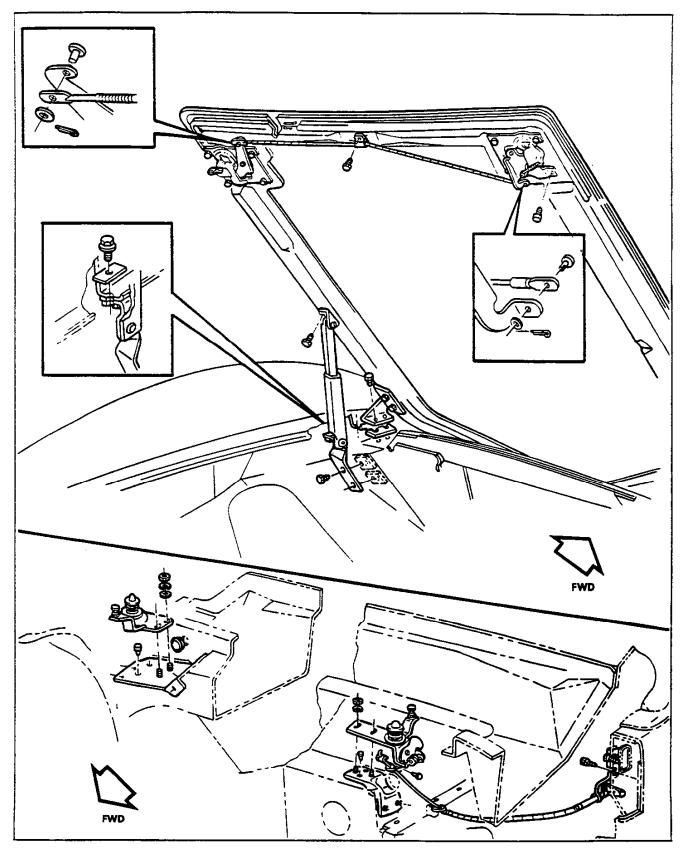


Fig. 3—Hood Hinge and Catch

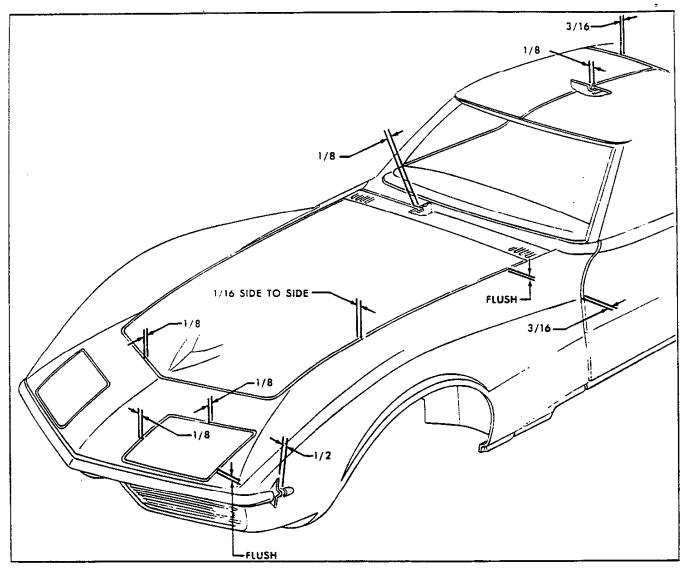


Fig. 4—Hood Specing

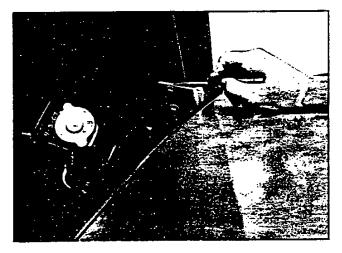


Fig. 5-Scribing Line Around Hood Hinge

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 fastend with adhesive.

Front Fender Side Louver-Replacement (Fig. 2)

- 1. Reach up beneath the front fender lower edge and remove a locknut threaded on a stud fastened to the bottom of the louver.
- 2. From the outside, remove (2) screws driven through the upper edge of the louver.
- Gently lift the louver up and off the fender.
 Reverse Steps 1-3 for installation.

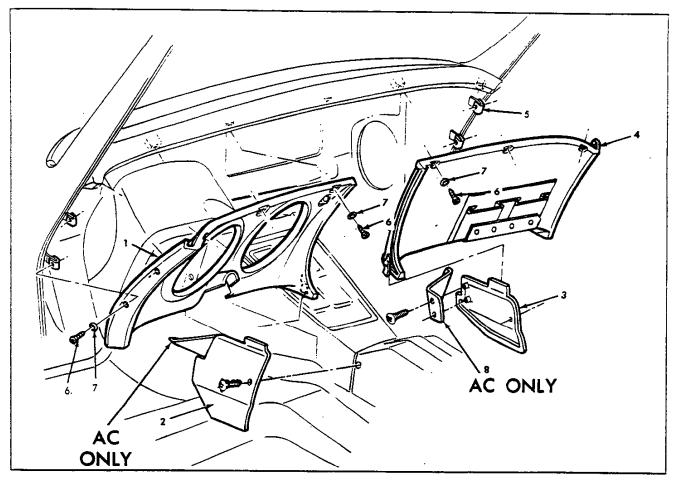


Fig. 6-Cowl Area Trim

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

6. Screw

7. Special Washer 8. Cover—A/C Convert

COWL AREA TRIM

Figure 6 illustrates the mounting and location of instrument panel pads and side trim panels.

Removai

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

- 1. Remove two mounting screws on the outboard flange.
- 2. Remove two screws at inner flange of center cluster panel.
- 3. Pull pad outward to release special plastic retaining clips along top of panel.
- 4. Pull pad upward to release spring clip at top of trim side panel.

Cowl ventilator and kick panel is removed by:

- 1. 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 7)

Because of overlap design, it is necessary that the rear

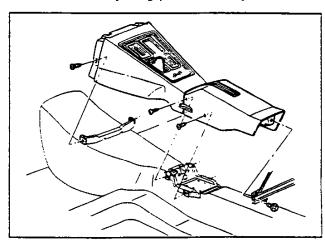


Fig. 7—Front and Rear Console Assemblies

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:

- 1. Disconnect battery ground cable.
- 2. Open storage compartment, glove box, and battery lids.
 - a. Remove storage compartment interior.
 - Remove lid hinge screws (total of nine, three (3) per lid).
 - Remove eight (8) screws on periphery of compartment lid trim plate.
 - d. Remove trim plate, lids and glove compartment interior as an assembly.
- 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 console.
- 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.
- Service parking brake mechanism as outlined in Section 5 of this Manual or replace concerned power window switch(s).
- Having first disassembled heater and side vent controls, shift knob assembly, boot assembly, and trim plate, remove front console assembly by carefully pulling rearward and upward (fig. 8).

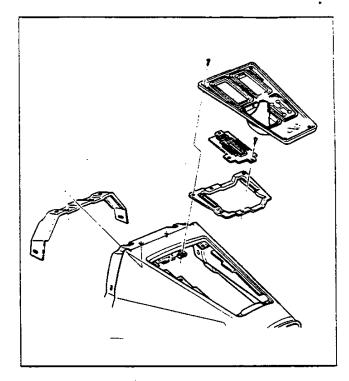


Fig. 8-Front Console Assembly

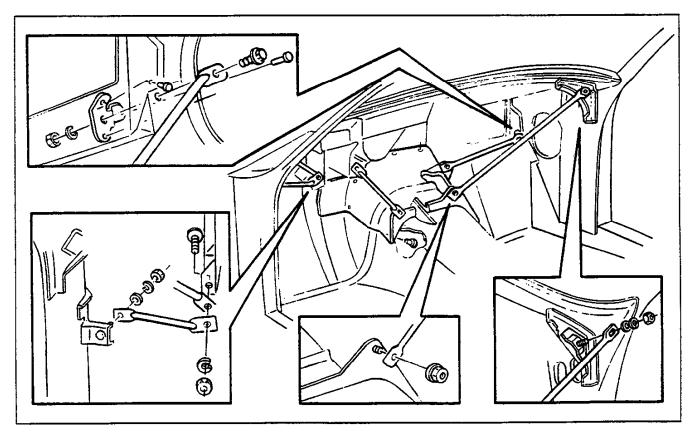


Fig. 9-- Under Dash Braces - Convertible with A/C

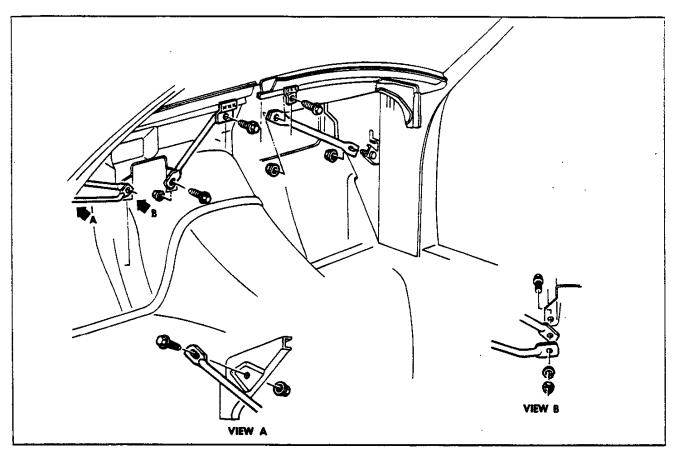


Fig. 10—Under Dash Braces - Convertible w/o A/C

 Reverse steps 1-6 on installation, making sure seal is properly installed in its slot before finalizing the installation.

Under Dash Brace Rods (Figs. 9, 10)

Convertible style bodies have added reinforcements beneath the dash; one or two on the right and three on the left 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 may be removed first.

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. 11).

Installation

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

Inside

Installation of inside mirror is illustrated in Figure 12.

Tension of mirror stud is increased by tightening adjusting screw.

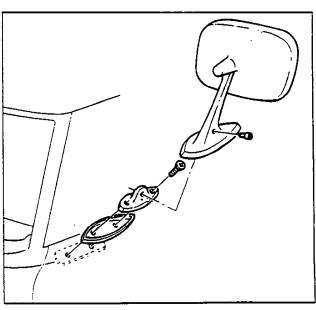


Fig. 11-Outside Rearview Mirror

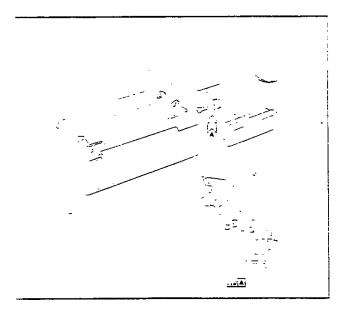


Fig. 12-Sun Visor and Inside Rearview Mirror

SUN VISOR

Attachment of sun visor assembly to windshield header is made as shown in Figure 12. Turning of adjusting screw clockwise increases friction.

WINDSHIELD (Figs. 12 to 16)

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.

Additional materials required:

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

Removal

- 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.
- 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.
- 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 heiper, 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 adhesive caulking material from pinchweld flange.

NOTE: It is not necessary to clean off all the old caulking material completely from windshield 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.
- 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. 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

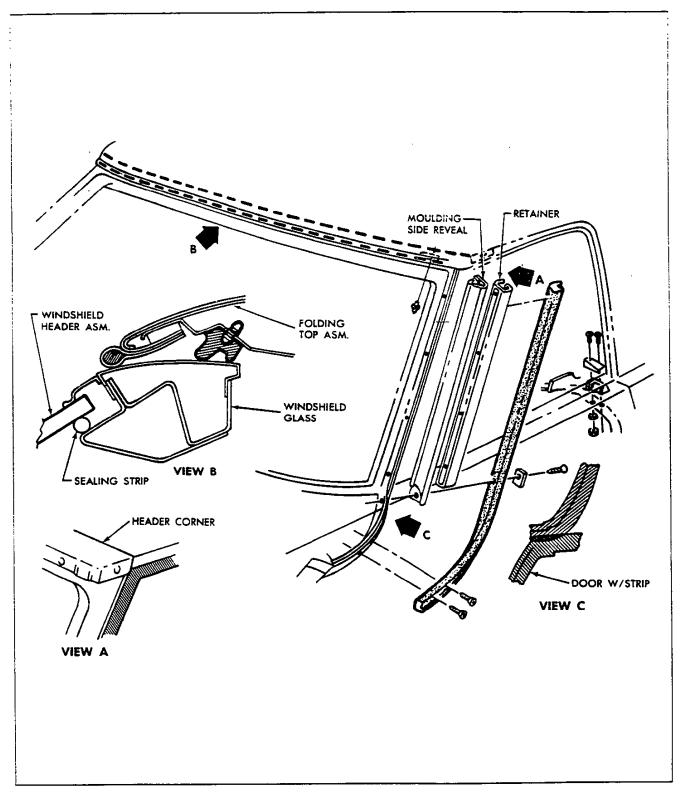


Fig. 13—Windshield Moldings and Weatherstrips

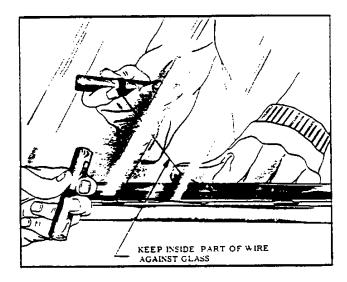


Fig. 14—Removing Old Glass From Opening

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.

- 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 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.

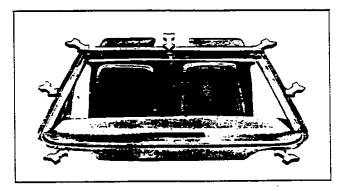


Fig. 15-Windshield Rubber Spacers

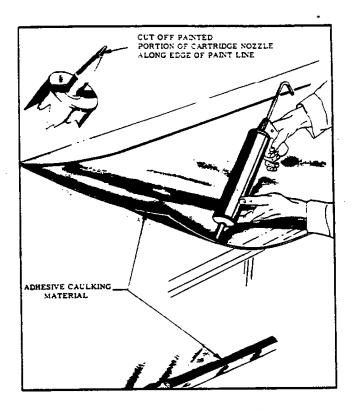


Fig. 16—Applying Caulking Material to Glass

COWL VENTILATOR ASSEMBLY

The following procedure includes either the left or right-hand side. Refer to Figure 17.

Adjustment

Turn plastic adjustment link, located at middle of control cable underneath dash panel, in order to attain

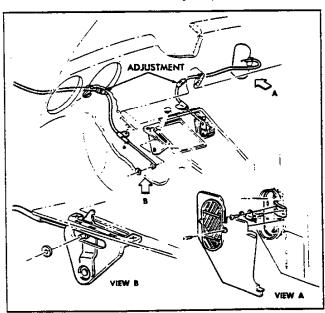


Fig. 17—Cowl Ventilator and Controls

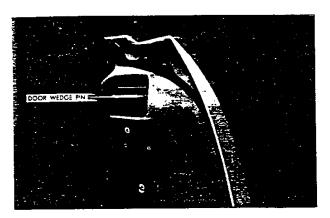


Fig. 18—Non-Adiustable Wedge Pin - Convertible Side Door

desired adjustment. Ventilator valve should be completely closed when knob is at forward position.

Removai

- 1. Remove cowi kick panei.
- 2. Disengage control cable fastened to bracket by screw.
- 3. Remove knob assembly retaining screw.
- 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 reverse order. Check operation and adjust accordingly.

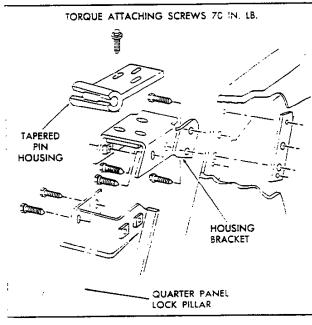


Fig. 19—Door Wedge Pin Housing and Bracker Location

DOORS

ADJUSTMENTS

Door Lock Striker (Fig. 20)

The door lock striker consists of a single metal bolt and wasner 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:
 - Make certain door is properly aligned.
- b. Apply modeling clay or body caulking compound to lock bolt opening.
 - c. Close door only as far as necessary for striker bolt to form an impression.

CAUTION: Do not close door completely. Complete door closing with make clay removal very difficult.

- d. Measure striker impression as follows:

 Striker head should be centered fore and aft as shown: however, some tolerances are allowed. In this alignment, it is important that minimum dimensions as outlined in Figure 20 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

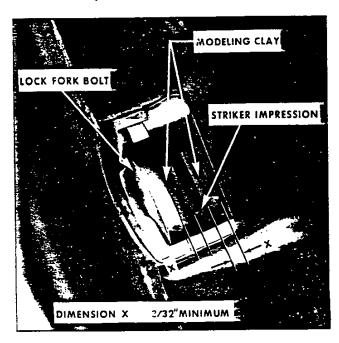


Fig. 20—Checking Adjustment of Striker

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

- Mark position of striker on body lock pillar using a pencil.
- Insert J-23457 wrench into 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.

Convertible Side Door Wedge Pin Housing And Bracket Adjustment

The wedge shaped tapered pin located on the side door (fig. 18) is not adjustable nor interchangeable right to left door.

All adjustments for entry of the wedge pin into the housing are made at the housing and housing bracket.

The housing bracket mounted in the quarter panel and lock pillar has six (6) mounting bolts allowing for alignment up and down (fig. 19).

The housing is secured with three (3) bolts to the housing bracket. The housing is adjustable on the horizontal plane in and out, back and forth.

All bracket and housing bolts should be just snug before closing door gently. Tighten all nine (9) bolts before opening door. Try closing door after housing and housing bracket bolts are tightened to 70 inch pounds torque.

NOTE: No shims are to be used at tapered wedge pin, bracket, or bracket housing.

DOOR WINDOW ADJUSTMENT (Fig. 21)

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).

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

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

Glass Too Far Outboard or Inboard

Loosen bolts (D & E). Back off adjusting screws (G).
 Move top edge of glass inboard until it is properly

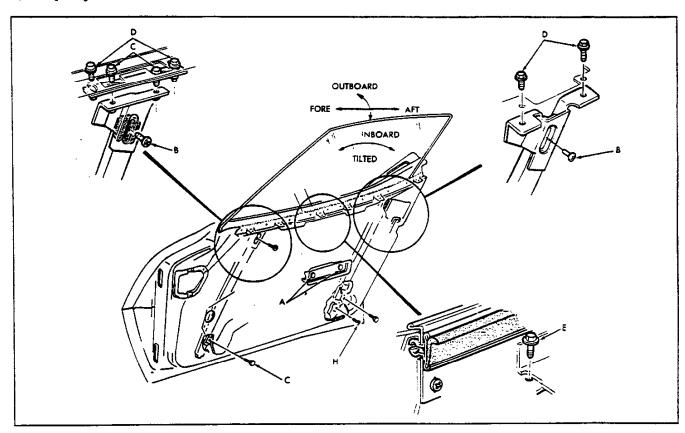


Fig. 21—Door Glass Adjustments

seated against roof rail weatherstrip. Tighten bolts (D). Move felt weatherstrip against window. Tighten bolts E. Turn adjusting screws so that the inner hylon pais are in light contact with wedges.

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 22)

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 screws.
- 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,

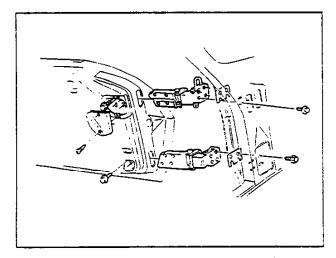


Fig. 22-Side Door Hinges

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 (Figs. 23 to 25)

- Using Tool J-7797, remove clips retaining window crank and lock control.
- 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 ty removing one (1) screw and sliding handle forward.
- 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 (Fig. 24)

Removai

- 1. Raise window fully up.
- 2. Remove door trim panel as outlined in this section.
- Disengage upper control rod assembly by 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.
- 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 proper operation, by removing clip and turning threaded rods. All components should be lubricated before installation.

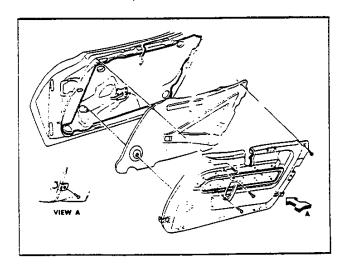


Fig. 23-Door Trim Faner Assembly

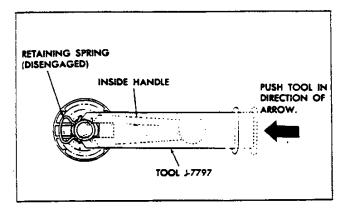


Fig. 24—Removing Window Crank With J-7797

WEATHERSTRIP (Fig. 26)

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.

WINDOW OUTER SEAL ASSEMBLY (Fig. 27)

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

WINDOW ANTI-RATTLE (Fig. 27)

- 1. Lower window
- 2. Remove trim-panel
- 3. Remove hex head screw
- 4. Fish anti rattle through access
- 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.

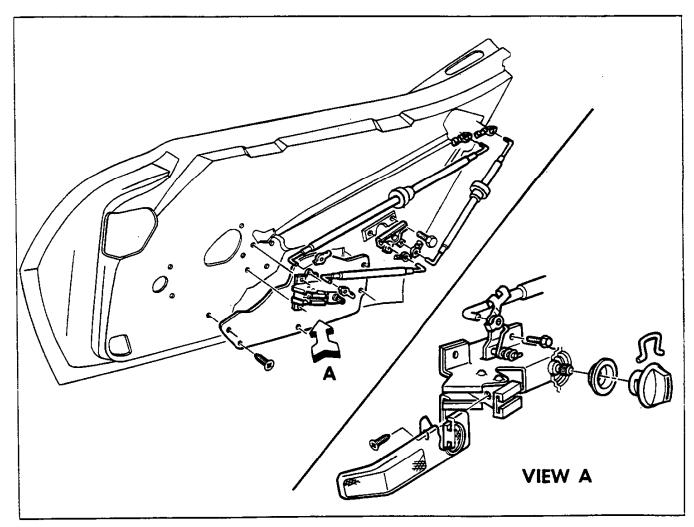


Fig. 25-Door Lock and Remote Control

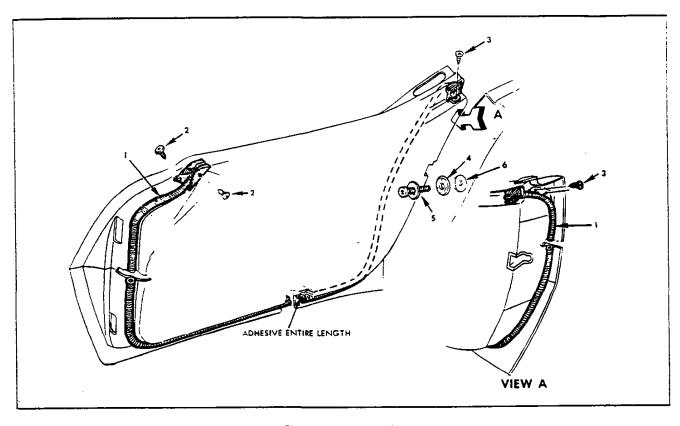


Fig. 26—Door Weathership

- 1. Weatherstrip
- 2. Screw
- 3. Screw 4. Spacer
- Striker
 Lock Pillar

- Position window all the way up to line up two (2) sash screws through access holes.
- 4. Remove two (2) sash screws on horizontal guide channel while holding nut 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:

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

GLASS RUN CHANNELS (Fig. 30)

Removal

Removal of either front or rear channel involves the following steps.

- 1. 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 31 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.

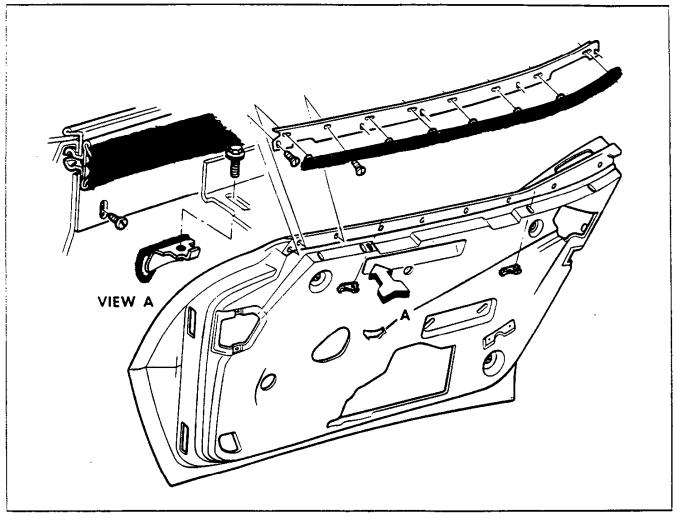


Fig. 27-Window Glass Seals and Molding

WINDOW REGULATOR-MANUAL (Fig. 32)

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.
- 11. While depressing front channel outward, slide regulator assembly forward and rearward to remove through access hole as shown in Figure 33.

installation

Regulator may be installed by following removal pro-

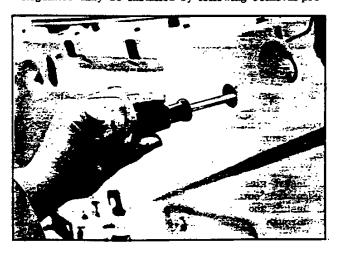


Fig. 28—Removing Sash Screws

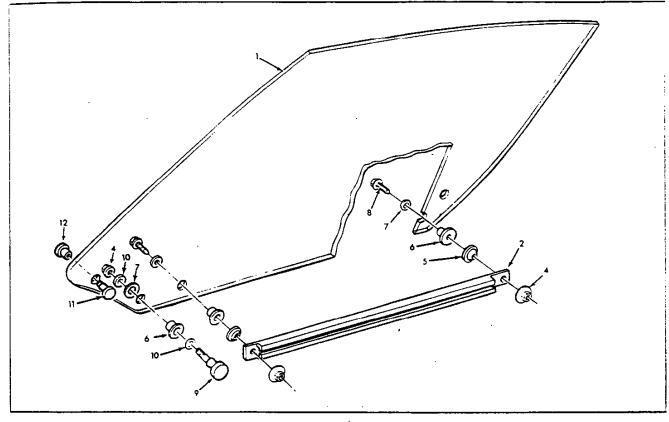


Fig. 29- Glass and Frame Assembly

- 1. Glass
- 2. Channel
- 3. Roller Assembly
- 4. Nut
- 5. Nut
- 6. Bushing
- 9. Roller Assembly

7. Washer

8. Balt

- 10. Washer
- 11. Fastener 12. Cap

cedure in reverse order. Always lubricate all guide rails and rollers when regulator is disassembled. Test ters 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 34 illustrates location of junctions, switches, and circuit breaker.

Removai

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 34 illustrates location of regulator on door and wiring.

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 35.

- 1. Place regulator assembly in vise.
- 2. 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.
- 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. 36)

- Removai
- Remove trim pad.
 Remove lock water shield.
- Remove handle assembly by first removing (3) three screws retaining lock.
- 4. Remove (2) nuts attached to handle assembly studs and raise handle assembly after prying pivot link clip loose.

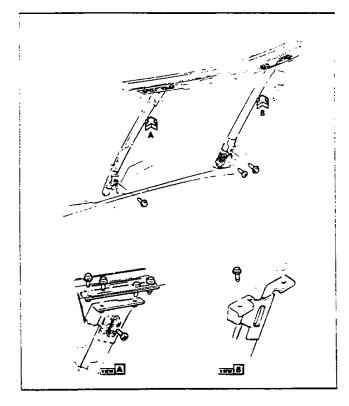


Fig. 30-Window Run Adjustment Points

 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.
- Slide lock back into place and secure with (3) three screws.
- Carefully check operation of door lock, handle and cylinder.
- Install lock water shield, using foam pressure tape as seal.
- 6. Install door trim panel as outlined in this section.

HINGES-DOOR ASSEMBLY (Fig. 37)

Removai

- 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

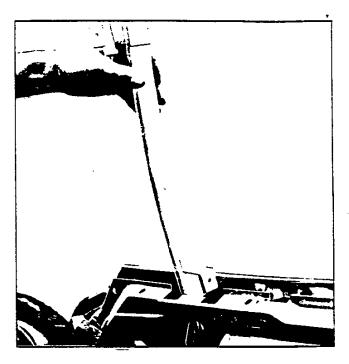


Fig. 31—Removing Front Glass Channel

ALLOW DOOR TO HANG UNSUPPORTED ON ONE HINGE.

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 38 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 39.

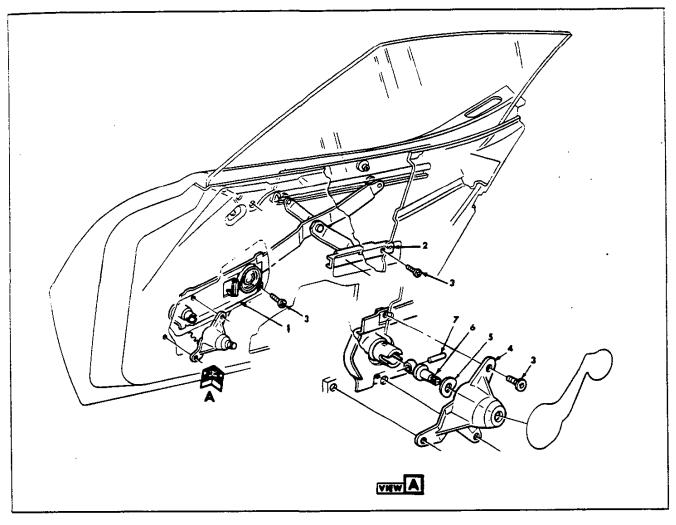


Fig. 32-Manual Window Regulator

- 1. Regulator
- 3. Screw
- 2. Channel Assembly
- 4. Housing
- 6. Shaft

5. Washer-Spring

7. Pin

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 neces-

1. Scribe a line on lid surface following contour of

2. To raise or lower top surface of lid, add or remove

hinge strap. This line will assist in observation of

- 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.
- 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.

Lock er. Lo

Lock engagement is adjusted as follows:

lid movement during adjustment (fig. 41).

sary. Adjust hinge position as follows:

hinge shims as required.

- Lock striker is adjusted in and out to the extent of slotted mounting holes.
- 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.
- After adjustment, lock release should be tested and readjusted as required.

REAR END

FOLDING TOP COMPARTMENT LID (Fig. 40)

Adjustment

Hinges

The folding top compartment lid should be adjusted so

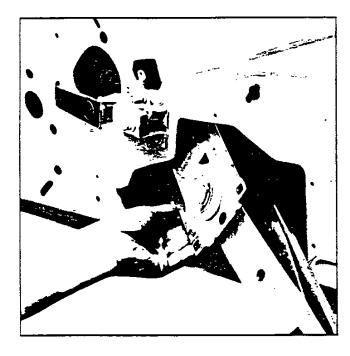


Fig. 33-Removing Window Regulator

Closing (Fig. 40)

- 1. Adjust screw and bumper in place to full down position.
 2. Close lid assembly allowing pin to engage in bushing
- and locate housing.
- 3. Tighten nuts to 70 lbs. inch torque.
- 4. Adjust screw up until the bumper is firmly seated against the lower surface of the lid assembly.

Hinges

Removal

- 1. Scribe around hinge as shown in Figure 41.
- 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 Tool J-9550 between expanded coils in spring. Opening top compartment lid fully allows removal of spring as shown in Figure 42.
- 4. 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.
- 2. Hook one end of spring in clamp and the other end in hook of chain hoist, or "cheery picker", as shown
- 3. Elongate the spring enough to allow insertion of J-9559. Install through bolt if spring is not to be installed on hinge immediately.

Installation

1. 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 trame 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

- 1. For locks on either side, remove red mounting clamps by removing one (1) hex screw.
- Remove two (2) nut-washer assemblies.
- 3. 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

Removai

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

Installation

- 1. 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.
- 3. Test operation of lock thoroughly, and adjust if necessary as outlined in this section.

Control

Removai

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

Installation

- 1. Position control on compartment lid and install mounting screws.
- 2. 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 44 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.

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

REAR FILLER PANEL (Fig. 44)

- 1. Remove rear license plate and housing.
- 2. Remove tail pipe extentions from mufflers.
- 3. Remove eight (8) mounting screws retaining filler panel to body and slide panel down.
- 4. For installation, follow above steps in reverse order.

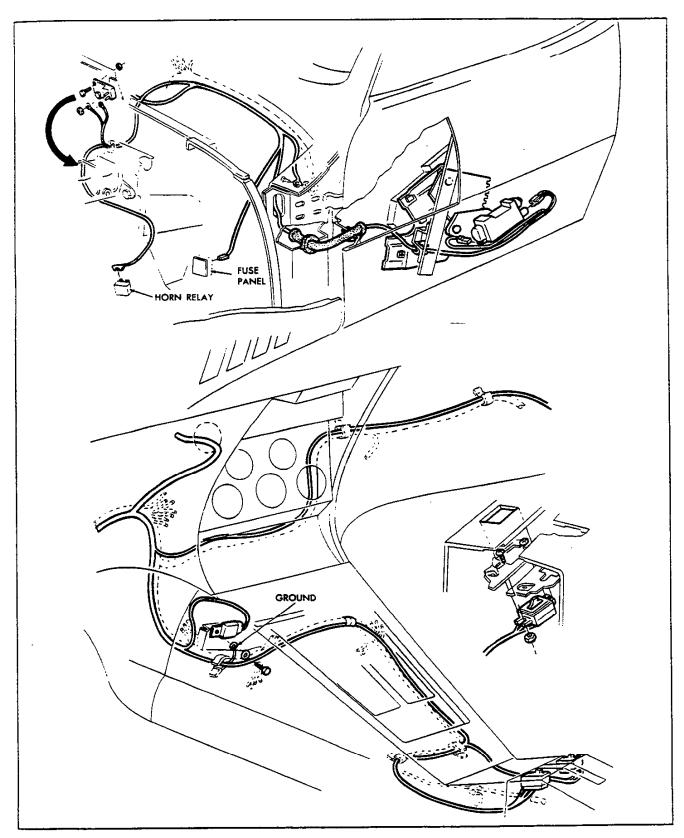


Fig. 34-Power Window Regulator Wiring

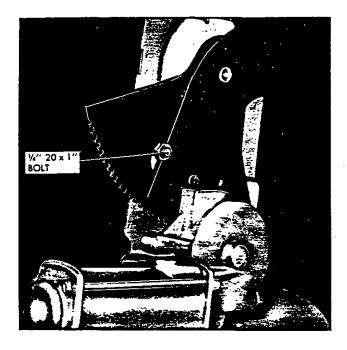


Fig. 35-Locking Arm in Place

SPARE TIRE MOUNT (Fig. 45)

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.

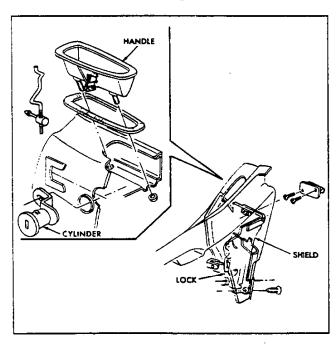


Fig. 36-Door Handle and Lock Cylinder

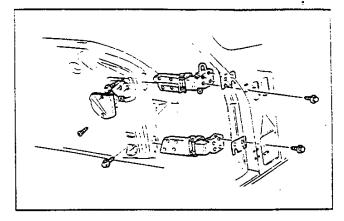


Fig. 37-Side Door Hinges

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. 46)

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.

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.

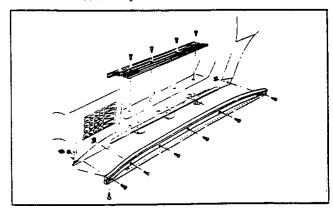


Fig. 38—Sill Plate and Trim Molding

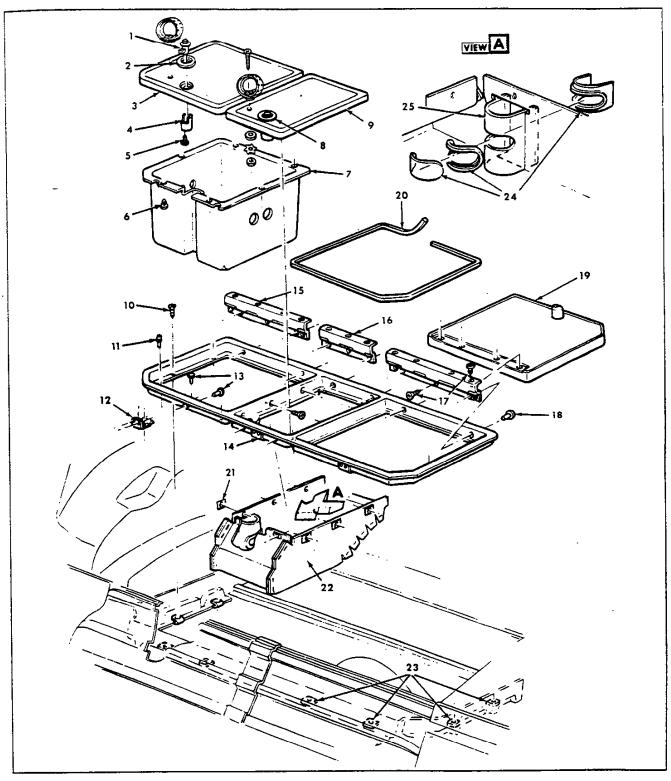


Fig. 39-Under Body Storage Compartment

- 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
- 19. Door 20. Seal 21. Nut
- 22. Center Compartment23. Spring Nut24. Lens Assembly25. Shield

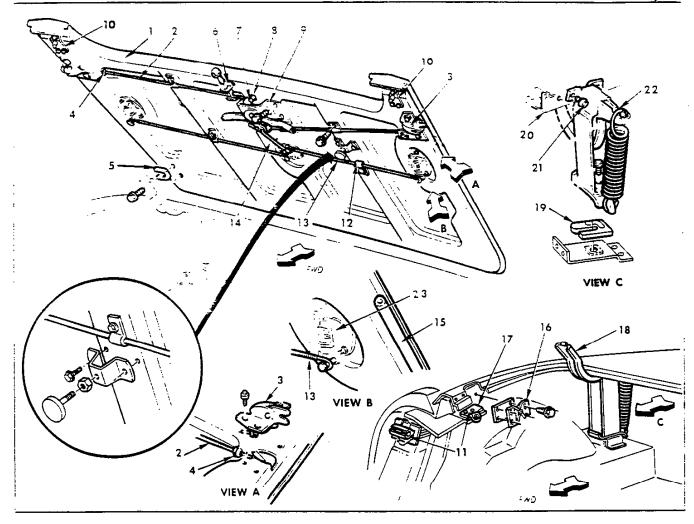


Fig. 40-Folding Top Lid Assembly

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

- 8. Stop
- 9. Control Assembly
- 10. Pin
- il. Pin Housing Assembly
- 12. Clip
- 13 Rod

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

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:

- 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.
- The operation should be repeated, using only a damp cloth and no soap.
- 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.



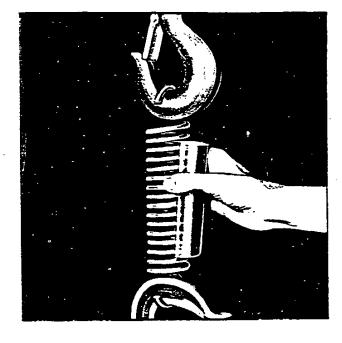


Fig. 41-Marking Hinge Position

Procedure for Cleaning Carpet

Thoroughly brush or vacuum the floor carpet. In many 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 ap-

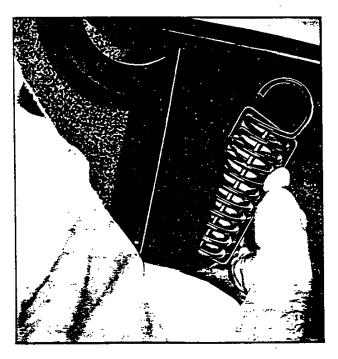


Fig. 42-Removing Hinge Spring

Fig. 43-Installing Tool J-9559 in New Spring

proximately 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

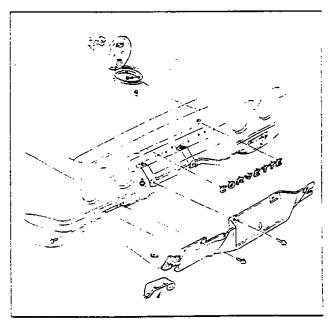


Fig. 44—Gas Tank Door and Rear Trim

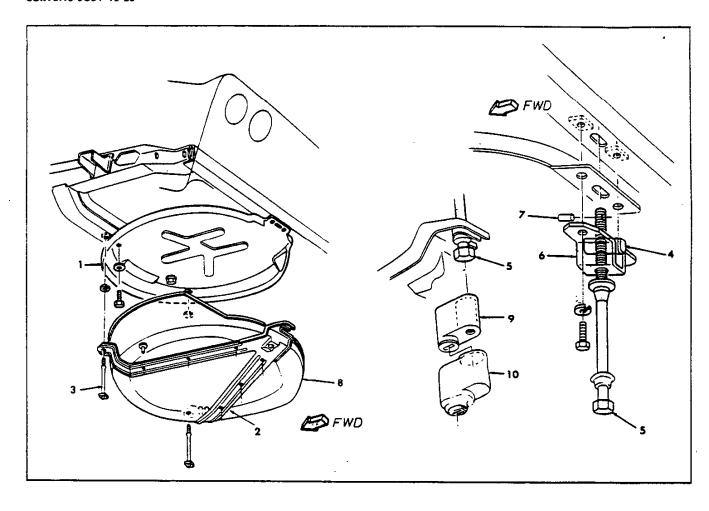


Fig. 45-Spare Tire Mount

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

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.

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

- 1. 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.

8. Tray

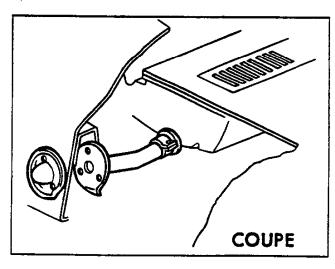


Fig. 46-Rear Plenum Drain



Fig. 47—Front Seat Back Shim Location

FRONT SEAT BACK PANEL

Removal and Installation (Fig. 47)

- Tilt seat back forward and remove (2) screws securing bottom of seat back panel to seat back frame.
- Pull bottom of seat back outward and lift panel upward to disengage panel from upper retainers; then remove panel from seat back.
- 3. To install seat back panel, reverse removal procedure.

SEAT BACK LOCK ASSEMBLY

Removal and Installation (Figs. 47, 48)

- 1. Remove front seat back panel, as previously described.
- IMPORTANT: If removing and reinstalling same lock assembly, install lock up screw at location shown in Figure 48.
- Remove lock assembly attaching screws and nuts and remove lock assembly from seat back.
- Remove lock strap-to-cushion frame attaching screws.
- 5. To install seat back lock assembly, reverse removal procedure. IMPORTANT: After all lock assembly attaching screws, including lock strap-to-cushion frame screws, have been tightened remove lock up screw at location shown in Figure 48.
- If requested, shims may be added to raise seat back angle 2°.
 - A shim must be added to either side of back cushion, under each bumper and a shim placed under the lock strap to cushion attachment in the center of the seat cushion.

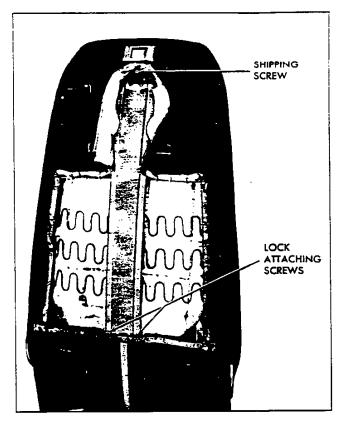


Fig. 48—Front Seat Back Lock Attachments

The shims are located in the glove box.

NOTE: Recheck seat back ability to lock after adding the shims.

BODY MOUNTING

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

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.

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 weld-

ing heat to come into direct contact with plastic body panels. The general area around the welding operation should be protected with wet asbestos or any other like method (several thicknesses of aluminum foll 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

Fig. 49-Front Body Construction

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

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

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.

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

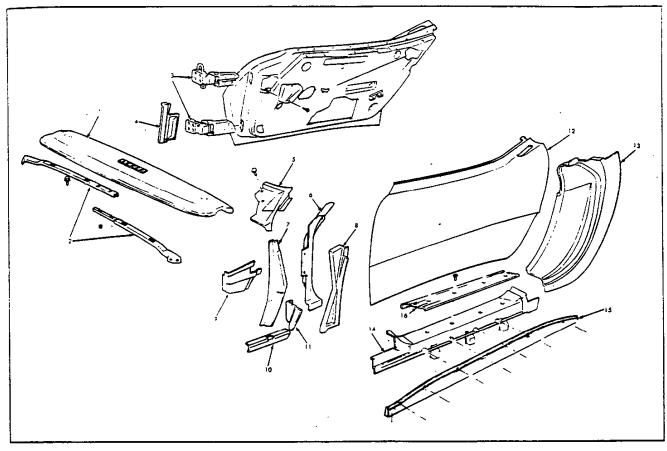


Fig. 50-Center Body Construction

- 1. Pad-Instrument Panel
- 2. Reinforcement-Instrument Panel
- 3. Door Hinge Assembly
- Panel-Plenum Side Extension
- 5. Bonding Strip-Lower Outer Windshield
- 6. Pillar-Body Hinge 7. Plenum Side Panel
- 8. Dash Extension Panel
- 9. Sill Inboard Extension
- 10. Plenum Side Panel Extension
- 11. Filler Panel

set cream.

- 12. Panel—Side Door Outer
- 13. Pillar Assembly—Door Lock
- 14. Door Sill
- 15. Molding
- 16. Sill Plate

REPAIR PANELS

Body repair panels are illustrated in Figures 49 through 52. 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 53 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 resins or dust.

The application of these creams is recommended whenever the Resin materials are used. Generally the cream is not required when the plastic (epoxy) 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. 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
- 2. 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.
- 3. 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.
- 5. 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

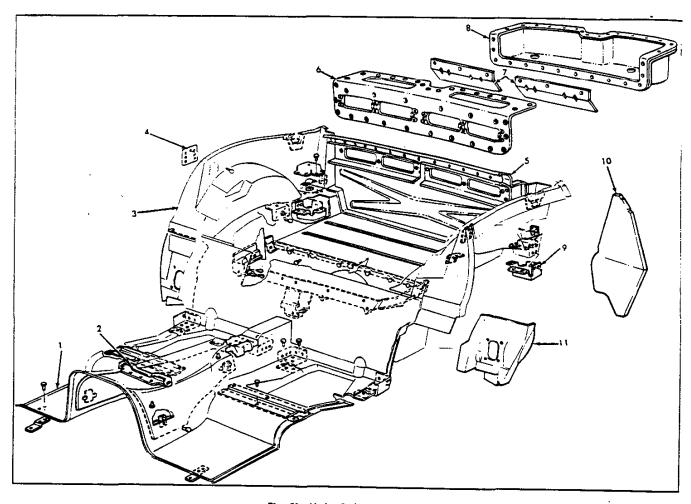


Fig. 51-Under Body Construction

- 1. Panel Underbody
- 2. Support Console
- Panel Wheel Housing Closing — Right Hand
- 4. Lid Lock Striker Anchor
- 5. Center Panel
- 6. Reinforcement
- 7. Baffie
- available may not meet the required engineering and safety standards.
- 8. 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 (Epoxy) 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 finish from damaged area. Carefully inspect for other areas requiring repairs.

- 8. Plenum Reinforcement-Folding Top Hinge Support (19467)
- 10. Reinforcement-Body Bolt
- 11. Shield—Rear Quarter
- 2. Mix the materials (fig. 54).
- 3. Apply the epoxy solder using a putty knife or rubber squeegee, Figure 55. Work the material into the repair and build the material up to the desired 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 56.

RESIN REPAIR

The Resin Repair for major repairs, consists of resin, hardener, filler, fiberglass cloth, protecting 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. Steel to fiber glass separations are connected together with epoxy solder after first cleaning out old

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

1. Look for hidden damage. Apply force by hand around the damaged area.

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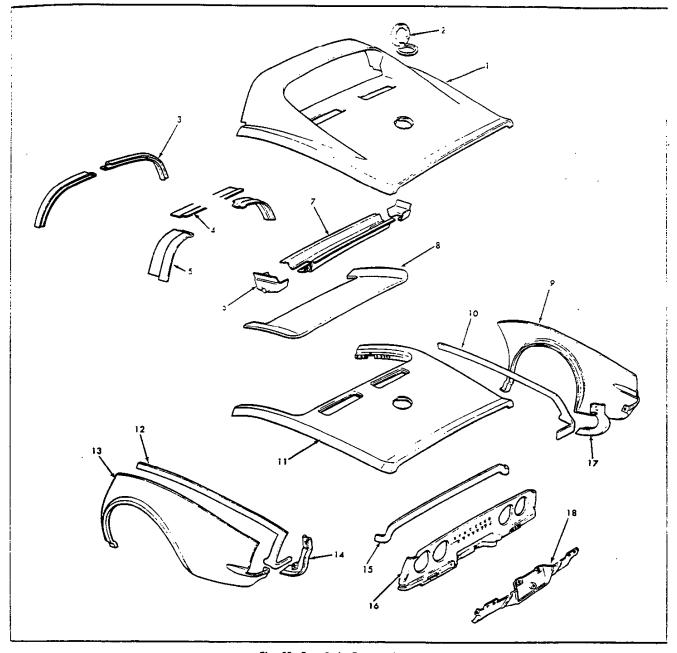


Fig. 52-Rear Body Construction

- 1. Panel—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. Banding Strip—Body Rear Upper Panel to Quarter
- Panel-Right Hand
- 2. 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

- 11. Panel-Body Rear Upper
- 12. Bonding Strip-Body
- Rear Upper Panel 13. Panel—Rear Quarter— Left Hand
- Bonding Strip-Body Lower Panel to Quarter Panel-Left Hand
- 15. Bonding Strip-Body Rear Upper
- 16. Body Rear Lower Panel 17. Shield—Rear Quarter Splash
- 18. Panel—Rear Filler

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 57.

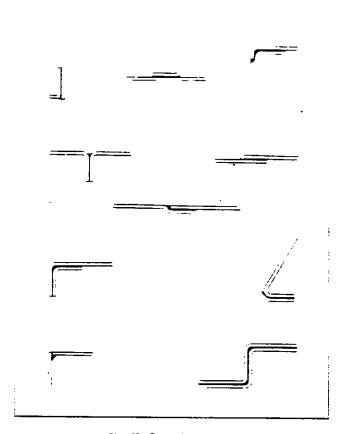


Fig. 53—Typical Body Bonds

- 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.
- 5. Mix resin and hardener, 1 part hardener to 4 parts resin. Add filler to the mix to give the mix body and reduce the "runniness" of the material.



Fig. 54—Mixing Plastic (Epoxy) Solder Material



Fig. 55-Applying Plastic Solder

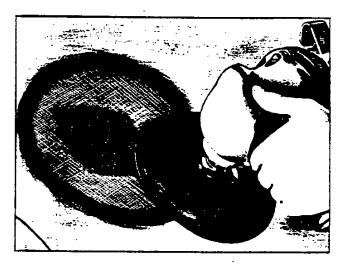


Fig. 56—Finishing Plastic Solder Repair

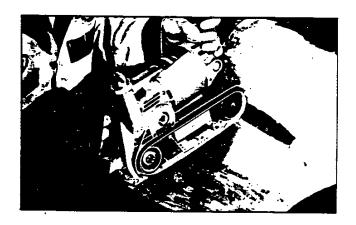


Fig. 57—Grind "V" at Damaged Area



Fig. 58—Applying Resin Mixture to Fiberglass

CAUTION: Cleanliness is most important. Be 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 (fir. 58). Place laminate over damage area. Smooth out wrinkles, and make sure general contour of area is maintained. Figure 59.
- Apply heat to repair area. Heat limps 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 (Epoxy) Solder Repair Kit.

SPECIFIC REPAIRS

Scratched Panels, Spot Refinishing

In many instances, a scratched panel will involve only



Fig. 59-Applying Laminare to Body

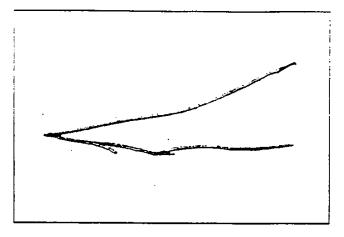


Fig. 60—Typicai Scratchea Panel

a paint refinishing job. Figure 60 shows the top of a fender panel which has been scratched through to the plastic.

- 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 61.

CAUTION: Do not sand too deeply into fiber-glass 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.



Fig. 61—Repair Area Finish Sanded

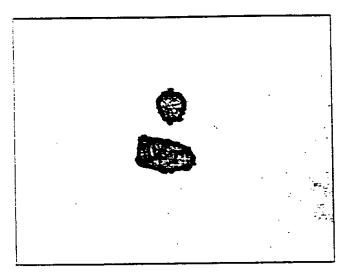


Fig. 62-Typical Pitted Panel

Dents or Pits in Panels, Cracks in Glaze Coat

Figure 62 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.
- Clean up work area with Prep-Sol then use tack rag for finish clean-up.

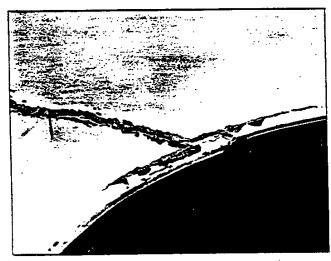


Fig. 63-Typical Cracked Panel

- 4. Use the Plastic Solder Repair (previously described) to fill the imperiections.
- Feather-sand damaged area with No. 220 sandpaper and finish sand with No. 320.
- 6. Prepare repair area for paint refinishing operation.

Cracked Paneis

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

- In the case of a cracked panel, such as shown in Figure 63, 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.

- Use "C" clamps to align panel portions allowing approximately 1/8" between the panels or as necessary to provide proper alignment of panels, Figure 64.
- Cut two pieces of woven glass fiber cloth for backup of sufficient size to overlap the fracture by approximately two inches.
- 7. 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.

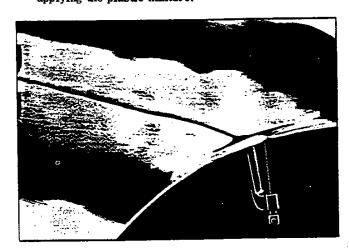


Fig. 64—Cracked Panel Preparation

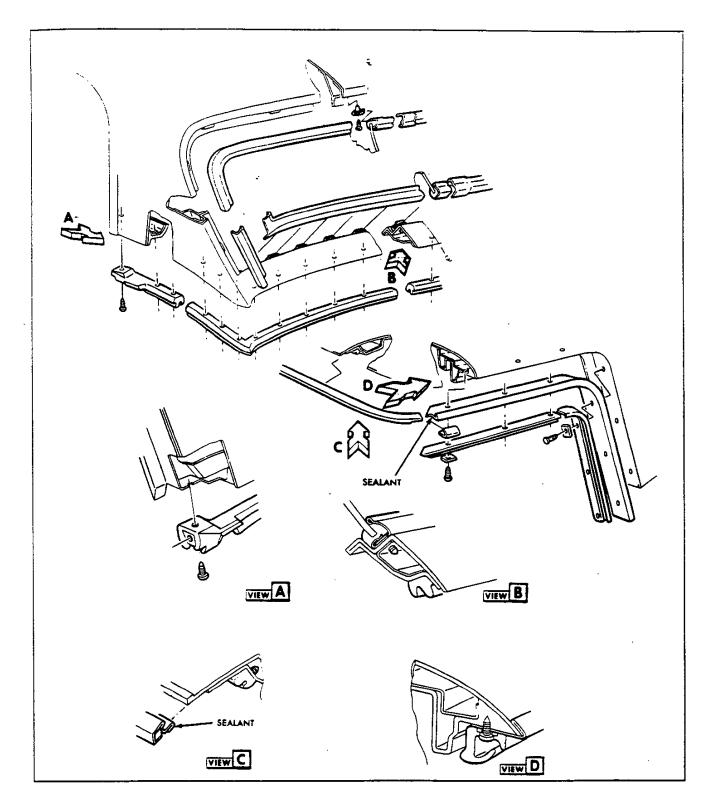


Fig. 65—Molding and Weatherstrip (Convertible Hardtop)

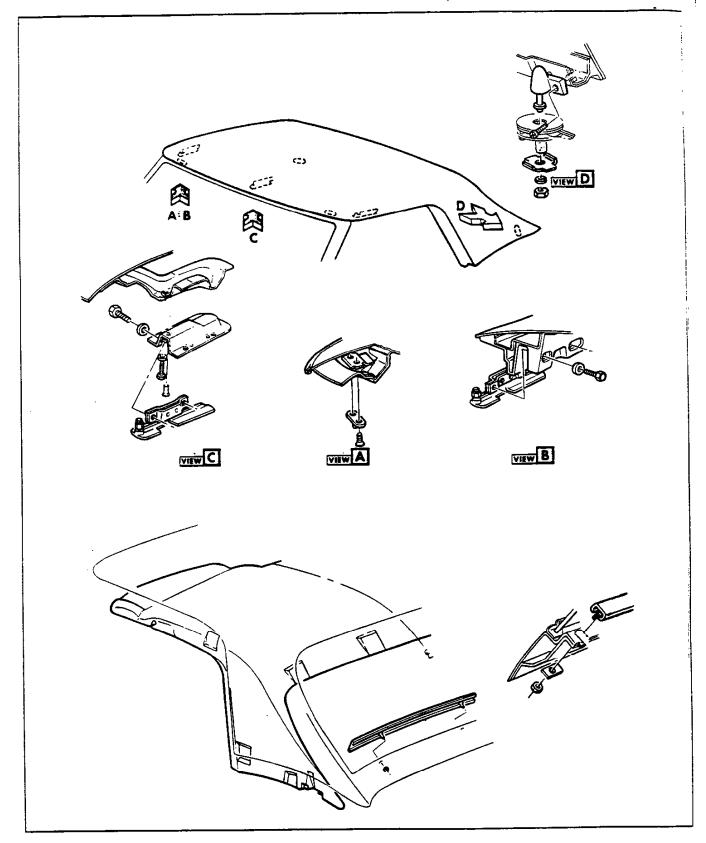


Fig. 66—Top Attachments and Headlining (Convertible Hardtop)

Fractured Paneis

Sometimes damage will occur to panels where the underside is inaccessible of 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.
- 7. Prepare plastic mixture in an unwaxed paper cup. (See Resin Repair 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.

- 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.
- 16. Use epoxy 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.
- 3. 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.

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 from settling on headlining and outside surface.

REAR WINDOW

Refer to Figures 65 and 66 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. 67) 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.

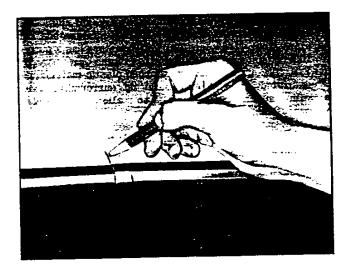


Fig. 67—Marking Molding Position

CAUTION: Do not run a neavy stream of water directly on cauling material while the material is still sort.

 Install previously removed moldings in reverse order of removal.

TOP ATTACHMENTS

Figure 66 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 65, 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.

Loosen cemented edges of fabric roof cover.

Installation

1. 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.

- 2. Where possible, install new cover at room temperature (approximately 72°) to permit easier fitting and removing of wrinkles from the cover assembly.
- removing of wrinkles from the cover assembly.

 3. Determine center line of roof panel by marking center points on front of hard top and back window spening. Fold cover lengthwise. Law cover on roof panel. Determine overhang (approximately 1").
- Apply natrile non-staining vanvi tram 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 monair 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 vinvl cover back to contact adhesive on roof panel. Vinvl 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. Peinstall 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 <u>directly</u> 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 vinvl 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

1. Pierce each wrinkle, blister and bubble on fabric

- roof cover with a snall needle.
- 2. 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 from over shop towel using back and forth strokes until towel is dry. (If from has heat control settings, control should be set to "wool".)

CAUTION: Do not continue to use iron after towel has become dry as excess neat may cause permanent damage to vinvi root cover.

- 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 warm water does not contact the glass windows or windshield.

ADJUSTMENTS

To correct variations in the top fit, adjustments are

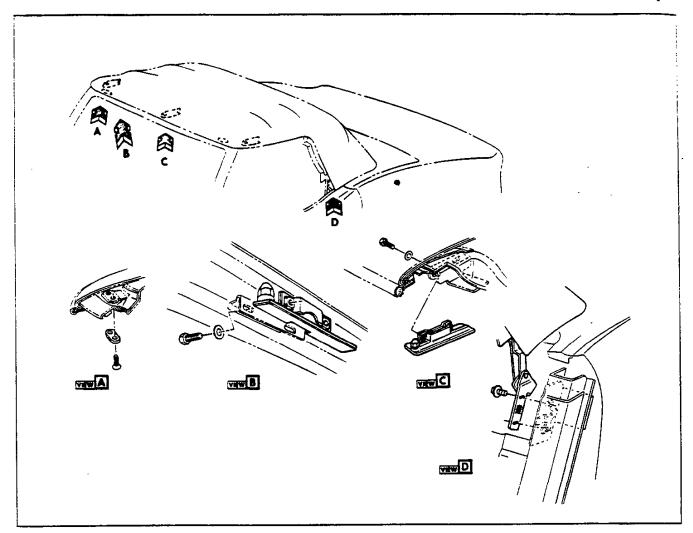


Fig. 68-Folding Top Adjustments

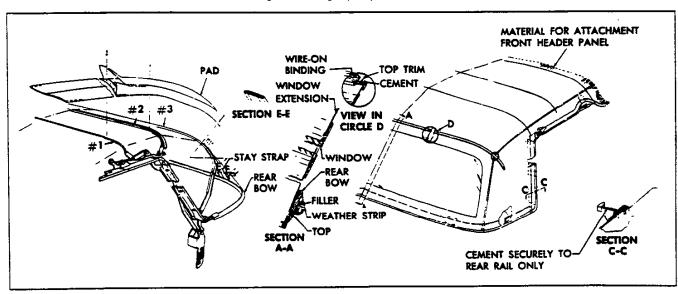


Fig. 69-Folding Top Trim Installation

made at three locations shown in Figure 68. A combination of adjustments may be necessary to correct any even 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.
- 4. 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 complete. Figure 69 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 77. 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 snown.

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 weatherstriphas 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 striphmust 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. 70).
- 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.
- 7. 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 71.
- Remove trim-rear bow assembly from vehicle to clean work bench or table.
- 10. Remove plastic filler from rear bow weatherstrip and pull weatherstrip and trim from rear bow. Section A-A shows installed position of these components. Refer also to Figure 72.

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 72. 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 73 shows pad construction; Figure 74 shows pad installed.
- Install top trim-rear bow assembly on top frame with four screws removed at disassembly.
- Lock down rear bow in desired "top up" position.
 Pull up stay straps and staple or tack to #3 bow (fig. 75).
- 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.
- 7. Pull leading edge of trim up to header and align

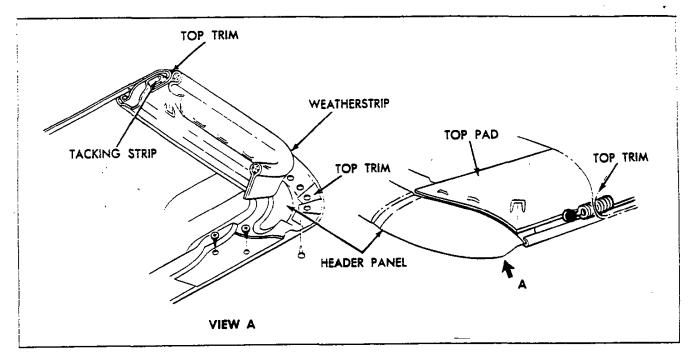


Fig. 70-Trim at Header

- 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 69. Follow directions on package.
- Draw roof portion of trim over #3 bow, align marks and tack on staple.
- Trim off excess material and install wire-on binding as shown in Figure 76 and View D of Figure 69. Install binding caps.
- 11. Remove temporary clamps or fastenings holding trim to header.



Fig. 71—Rear Bow Retaining Screws

- 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. 70).
- 15. Apply trim to rear side frame, previously cemented.

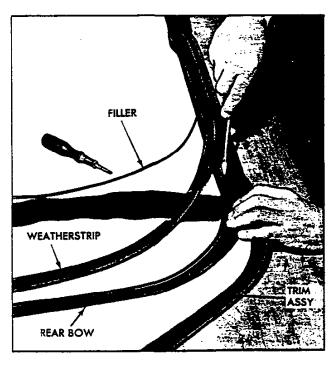
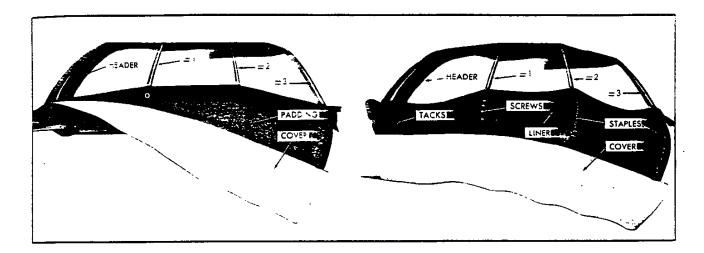


Fig. 72—Installing Trim and Weatherstrip to Rear Bow



Eig. 73—Pad Construction

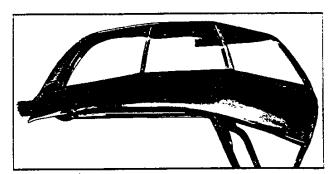


Fig. 74—Pad Installed

- 16. Install weatherstrips which were removed at disassembly and install retaining screws in neader weatherstrip.
- 17. Install header trim panel.
- Make any adjustments necessary, following instructions listed under Folding Top—Adjustments.

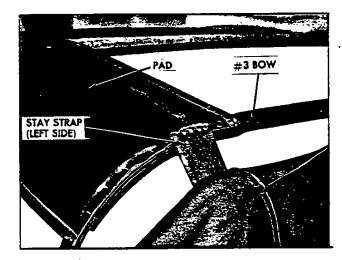


Fig. 75—Installing Stay Strap

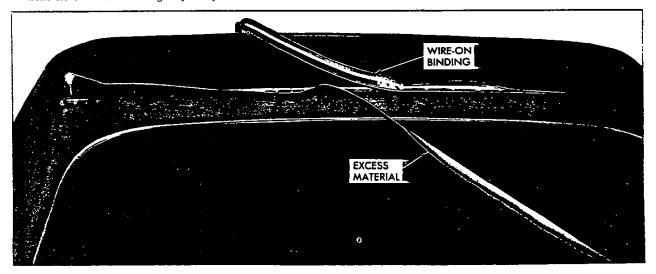


Fig. 76-Installing Binding

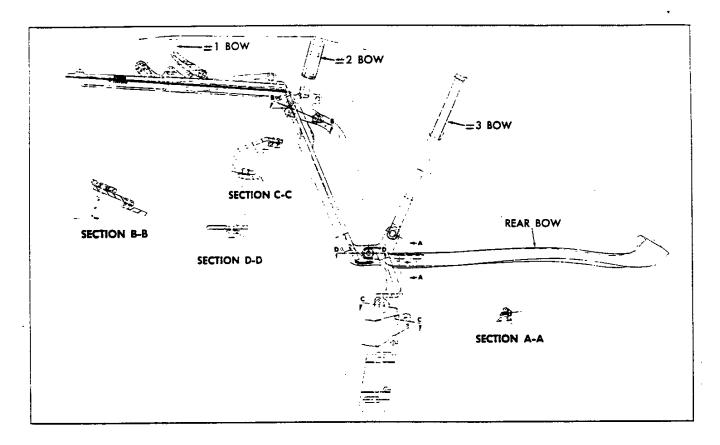


Fig. 77-Top Frame and Linkage

FRAME AND LINKAGE

Figure 77 illustrates construction features of the folding top frame and linkage. Various cross sections in Figure 77 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 78 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

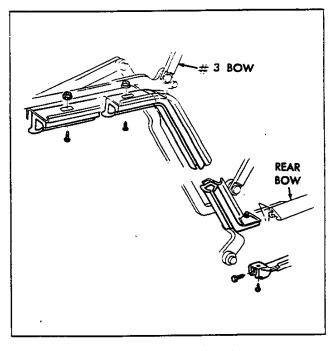


Fig. 78—Side Rail Weatherstrip

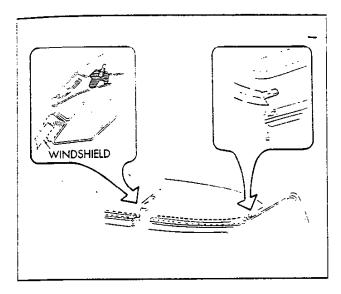


Fig. 79-Header Weatherstrip

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 79 along with neoprene base weatherstrip cement.

SPORT COUPE MODEL 19437

ROOF PANEL ADJUSTMENT (Fig. 80)

Each roof panel is adjusted in relationship to the other

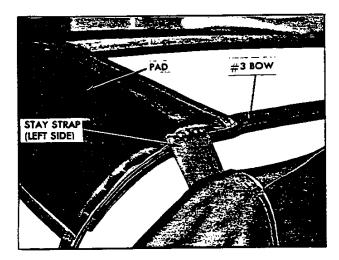


Fig. 80-Roof Panel Alignments

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.
- 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.

 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. 81)

- Remove roof panel and place upside down on soft clean surface.
- 2. Remove screw on each side of headliner panel.
- Pry headliner loose from nylon retainers at eight (8) locations. Remove headliner.
- 4. Pry out plastic buttons retaining weatherstrip to roof panel.
- 5. Clean old sealer off roof.
- Apply sealer to roof panel along the entire outline of the roof panel where the weatherstrip is to lie.
- Install new weatherstrip at screw attachment end engaging all plastic retainers. Push down along strip to uniformly spread the sealer.
- Secure weatherstrip to roof panel with four (4) screws.

- 9. Reinstall headliner panel.
- 10. Reinstall roof panel.

INTERIOR QUARTER PANEL TRIM REMOVAL (Fig. 82)

- 1. Remove rear window.
- Gently pry off back window lower garnish molding (f) by pulling lower edge forward, then after unhooking 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
 (d) 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.

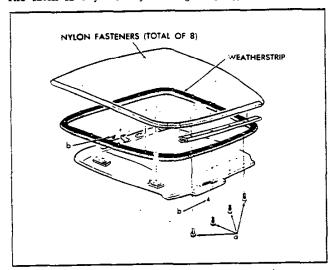


Fig. 81—Roof Panel Weatherstrips

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 (polysulfide or equivalent) around slot of both frame components.
- 5. Insert replacement glass into curved frame member.
- Assemble frame by aligning lower member with glass.
- 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.

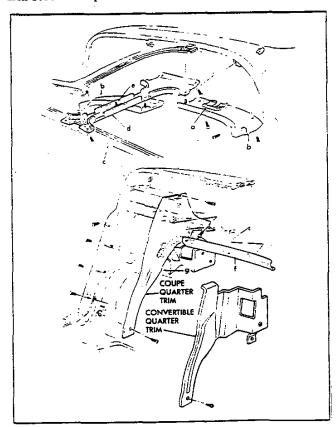


Fig. 82—Interior Quarter Trim

SPECIAL TOOLS

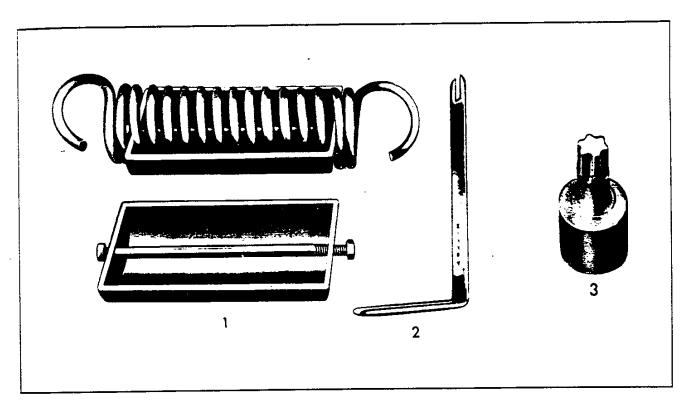
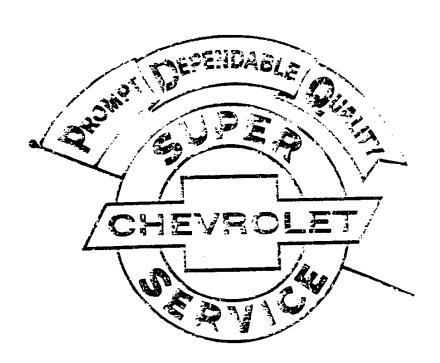


Fig. 83—Special Tools

1. J-9559 Deck Lid Spring Tool
2. J-7797 Door Handle Clip Remover

3. J-23457 Door Lock Striker Bolt Remover



★Does not include state and local taxes, license lees, options or accessories

STANDARD EQUIPMENT

7	<u> </u>	Troisine castin	Indeprindent	Axle. Rear: Independent auspension: leaf
ᇊ	coil	eusponsion;	Independent	Axle, Front: Independent suspension; coil
턴		Per	Oil-welled pa	Air Cleamer: Oil-welled paper

springs; ratio, 3.36
Bettery: 12 volt; 62-amp-hr
Belts, Seat: Driver and passonger
Belts, Shoulder: Driver and passonger
[Coupe]

Bunkey, Bervices Hydraulic, self-adjusting; dual system; disc-type Sizes: 11.75° rotor (front and rear) Total effective lining area 78.1 sq in

Braken, Parking: Rear wheels Clatch: Dia. 11', 123.7 eq in

Cooling: 2.88" core, cross-flow type; affective area 315 eq in

Engine: V8: 270-hp, 350 cu in
Emission Control Equipment
Frame: Weldad; full longth ladder type
Fuel Tank: Capacity approx 18 gallons

Head Restraints: Driver and passenger
Heater and Defroster
Oil Filter: Full-flow; i pt; throwaway type

Generator: 42-amp Delcotron

Shock Absorbers: Front and rear
Tires: Five F70 x 15B nylon blackwall
Transmission: Fully synchronized 4-speed;
floor-mounted shift lever

Wheels: 15" x 8"

Windshield Washer and Wipers: Electric; 2-speed

POPULAR OPTIONAL EQUIPMENT.

POWER TEAMS

4.56 ratio	4.11 ratio	3.70 ratio	Porformance ratio	Economy ratio	Axle Hatio, Reast Replacing standard positraction rear axle ratio	Special 4-Speed Close Ratio; With 425 bp engine only.	4-Speed Close-Ralio; With 330-, 365- or 425-hp engine	Turbo Hydro matic; With standard 270 bp oughe With 365- or 425-up oughe	Transmissions: Replacing structured 4-speed wide-range frammission	425-th Turbo-let 454 VB. Avoilable only when optional 4-speed or Turbo Hydramatic transmission is ordered includes HD Battery.	3(5) p Turbo-let 454 VB. Avoilable only when standard 4-speed, 4-speed close-rolio or Turbo Hydra-matic transmission is ordered. Includes HD Battery	330.hp Turbo-Fire 350 V8. Available only when standard 4-speed or 4-speed close-ratio transmission is ordered, Includes tull transistor ignition system.	Engines:
ΥE3	YE2	YEI	20g	2Q8		M22	M21	M40		987	SST	<u> </u>	
12,00	12.00	12.00	12.00	12.00		95.00	N.C.	N.C. 95.00		1159.00	280.00	\$ 499 00	
.65	65	.63	.65	.65		5.35	N.C.	N.C. 5.35		61.70	14.90	\$24.45	
12.65	12.65	12.65	12.65	12.65		100.35	N.C.	N.C. 100.38		1220.70	294,90	\$483.45	

Propular Chevrolet installed options. See latest Chevrolet Price Schedule or Truck Data

POPULAR OF HUNAL EXPERIMENT

Power.	Description
POWER ASSISTS	Op.
\$ 45.00	List Price
	Factory D&H
\$ 2.40 \$ 47.40	Faciery Mir's Sqt'd Betoil D&H Delvr'd *

OTHER OPTIONS

N40

110.00

5.90 4.35

115.90 85.35

Windows, Power; Electric

OPTIONAL TUBELESS	Wheel Covers, Custom	Trim, Custorn Genuine Leather seets, special carpeting, door trim panels and console with wood-grained accents.	Black	Top, Folding — Manually operated. Convertible only — White	Top, Kuxillary—Removable hardtop; Convertible model only In addition to folding top	Steering Wheel, Tilt-Telescopic	Roef Cover, Visy1—Black. Available when removable auxiliary hardtop is ordered an Convertible.	AM/FM/Stereo Radio.	Redion, Pushbutton—includes antenno: AM/IM	Paint, Exterior—Solid colors	Defroster, Rear Window	Belts, Custom Deluxe Shoulder— Convertible only—2 front	Battery, Heavy-Duty— Included with 365- or 425-hp engine	Alarm System, Audio	Air Conditioning, Four-Season—Available only when 4-speed wide-range or Turbo Hydra-matic fronumission with standard or 355-hp engine is ordered.
TIRES-I	P02		ВВ	A	C07	N37	C08	U69/U79	U69		C50	A85	T 60	UA6	C60
TIRES—Factory Installed	60.00	150.00	N.C.	N.C.	260.00	80.00	60.00	269.00	169.00	N.C.	40.00	40.00	15.00	30.00	\$441.00
talled	3.20	8.00	N.C.	N.C.	13.85	4.30	3.20	14.35	9.00	N.C.	2.15	2.15	. 8	1.60	\$23.50
	63.20	158.00	N.C.	N.C.	273 85	84.30	63.20	283.35	178.00	N.C.	42.15	42.15	15.80	31.60	\$464.50
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♦Popular Chevrolet installed options. See latest Chevrolet Price Schedule or Truck Data Rock to examinate life of regional equipment of the price of the property of the prop

Replacing (5) $F70 \times 15/B$ Special Nylon Blackwell.

PT7 PU9

1.35

30.35 43.65

29.00

(5) F70 x 15/B Special White stripe nylon.
(5) F70 x 15/B Special Nylon White Lettered

Blackwall .

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	·			

COLOR AND TRIM SELECTIONS

Coupe and Convertible			
Bucket	Seat		
400	Vinyl	<u>e</u>	INTE
403	Custom Interior Vinyl Leather Vinyl Vinyl Vinyl	Black	INTERIOR TRIM & COLOR CODE
412	Vinyl	Blue (Dark)	M & C
423	Vinyl	Blue Green (Dark) (Dark) Red	DLOR CO
407	Vinyt	Red.	Ř
417	Vinyl	£\$	
420	Custom Interior Vinyl Leather	Saddle	

EXIERIOR COLOR	CODE	ĐE	-				
Solid	Lower	Upper					
Blue, Mulsanne (Bright)	26	26	×	×			
Blue, Bridgehampton (Dark)	27	13	×	×			
Green, Brands Hatch	\$	\$	×		×		×
ا ق ا	8	\$	×				
Orange, Ontario	9	97	×		×		×
Red, Mille Miglia	8	76	×	!	!	×	
Silver, Nevada	: =	=	×	: ×	×	×	
White, Classic	=	5	: ×	×	ı ×	×	: ×
Yellaw, Sunllawer	: :::	: 23	: ×		į×		×
Yellow, War Bonnet	2	22	×		×		×

POWER TEAMS

Transmission	No.	Engine Usage
4-Speed Wide-Range	Sid	270-hp V8 330-hp V8 365-hp V8
4-Speed Close-Relio	M21	330-hp V8 365-hp V8 425-hp V8
Matio	N (1)	43.4 de A4
Turbe Hydra-matic	M40	270-hp V8 365-hp V8 425-hp V8

SPECIFICATIONS

					•	
·						
					7	
						•
					, .	
		-				
	,		•			
				•		
			,			
	-					

Corvette models and index / 1

New Corvette Features lor 1971 . . .

- 10 Magic-Mirror colors-7 new for '7f -include 3 special fire-mist choices
 - New Interior frim colors
- Fuel Evaporation Control System
- All engines operate on fow lead fuel standard
 - New Cambination Emission Control (CEC) valve
- contributes to a smoother surface and New tow profile body resin process improved exterior finish

Safety and security features ...

Occupant Protection Features

- Seat belts and shoulder belts (except Convertible) with pushbutton buckles and retractors-driver and passenger
 - Energy-absorbing steering column Built-in head restraints
 - Passenger-guard door locks
 - Safety door latches
- Energy-absorbing padded instrument
- Thick-laminate windshield
 - Padded sun visors
 - Safety armrests
- Salety steering wheel

Accident Prevention Features

(front side marker lights flash with Side marker lights and reflectors directional signal)

. Vinyl-covered molded headlining . Ammeter, oil pressure, fuel and

temperature gauges

 Rally-type electric clock Separate frip odometer

. Courtesy light with automatic

on Coupe

door switches

- . Parking lights that illuminate with
 - headlights
 - · Four-way hazard warning flasher
- Lane-change feature in direction signal Back-up lights
 - Windshield defroster, washers and control
- . Wide-view inside day-night mirror (vinyledged, shatter-resistant glass and deflecting support) dual-speed wipers

Dual master cylinder brake system with Outside rearview mirror

Special high-doned hood included with

· High-output Delcotron generator with

330-, 365-, and 425-hp ongines micro-circult integral regulator

Sealed side-terminal onergizer-lypo

warning light

Anti-Theft Features

- Anti-theft ignition key warning buzzer
- Anti-theft steering column lock
- Positive-shift starter

ballery

- Controlled pressure lubrication system Automatic choke
- Magic-Mirror acrylic lacquer finish

with full-flow oil filter

Custom Interior option (includes leather

Traditional quality features ...

special door trim with carpeted lower

seat frim, plush cut-pile carpeting, panel, plus wood-grain accents on High-rise slim-tapered bucket seats

doors and console)

· Instrument panel and console with

with integral head restraints aircraft-type instrumentation

- Hide-A-Way windshield wipers with beneath power-operated cowl panel built-in washer nozzles concealed
- Dual-speed electric windshield wipers Concealed outside door handles
 - Built-in blended-air heater and defroster system
- Padded instrument panel and sun visors Power-operated retraclable dual

Astro Ventilation system with adjustable

vent-ports in instrument panel

Seat belt retractors

· Consote-mounted parking brake control

· Deep-twist floor carpeting standard

. All-vinyl interior trim standard

Color-matched seat belts

- Carpeted luggage compartment behind headlights
 - · Rear compariment slowage wells front seals
 - Keyless door tocking
- Concealed Convertible top stowage · Separate spare tire stowage with

· Unitized seat and shoulder belt buckle

Special sport-styled steering wheel

design

Tachometer

- key lock
- . Full door-glass styling without
 - Front lower air spoiler ventipanes
 - Rear deck air spoiler
- Convertible) with glass rear window . Removable hardtop (available for
- Full Independent suspension system
 - Self-adjusting disc brakes at all
 - four wheels
- Rugged all-welded ladder-type frame
 - Wide 15" x 8" wheels

Light monitoring system standard with

- F70 x 15 wide-oval tires
- Rubber-mounted front stabilizer bar Precise Ball-Race steering

Warning lights for seat belt and door ajar

Positraction roar axle standard

Efficient valve-in-head design

Full dual exhaust system

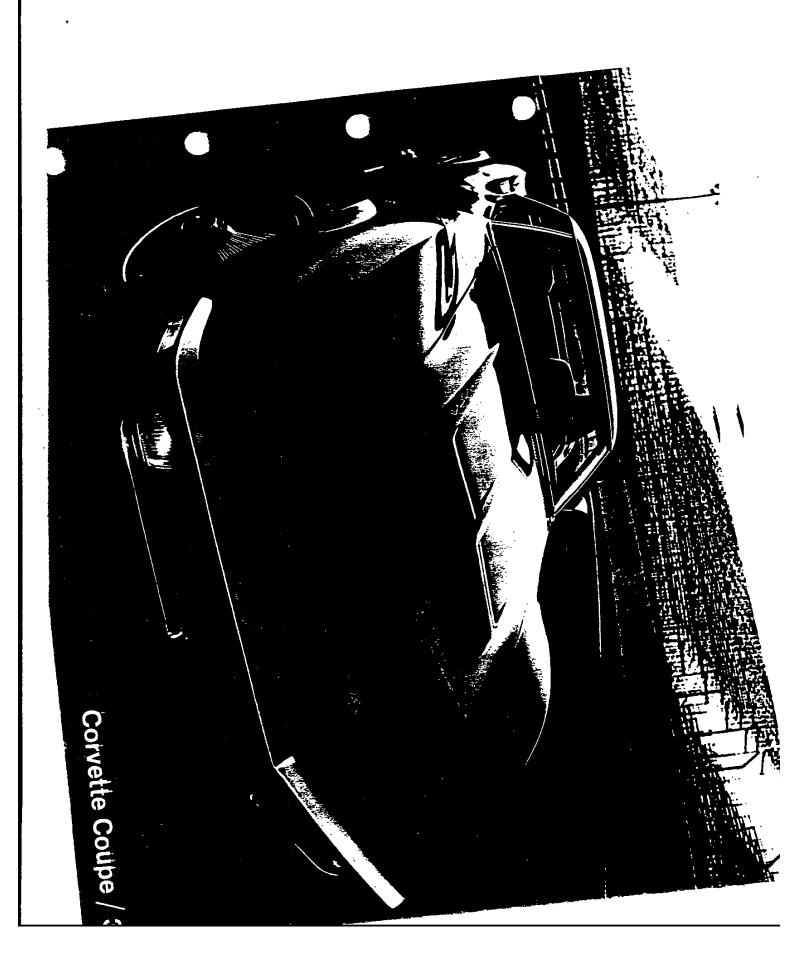
Tinted giass in all windows

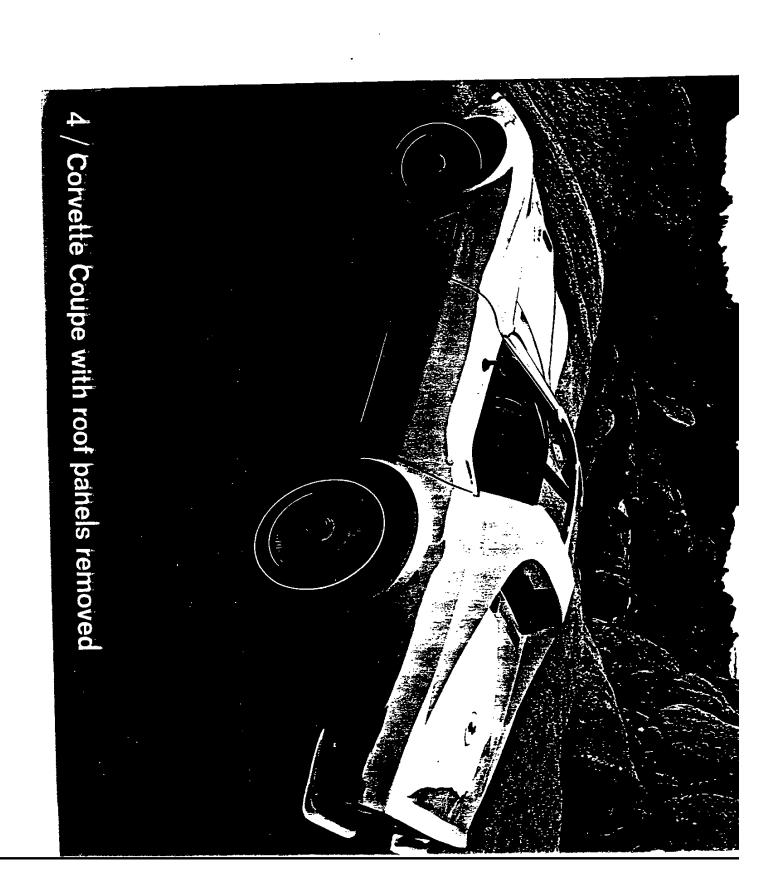
Rear compartment stowage wells

Suspended accelerator pedal

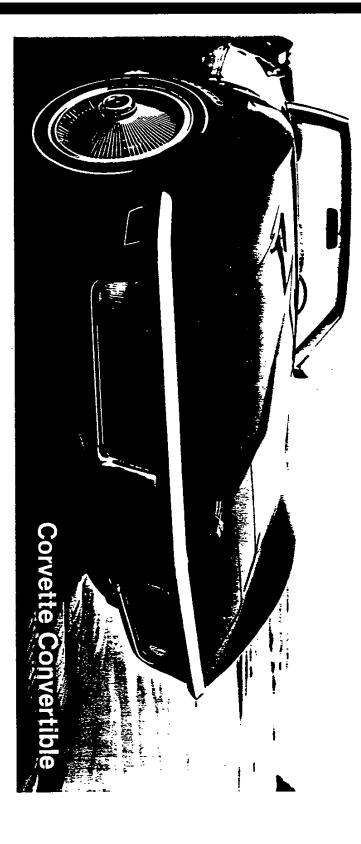
Indicators built into console

2 / Corvette features



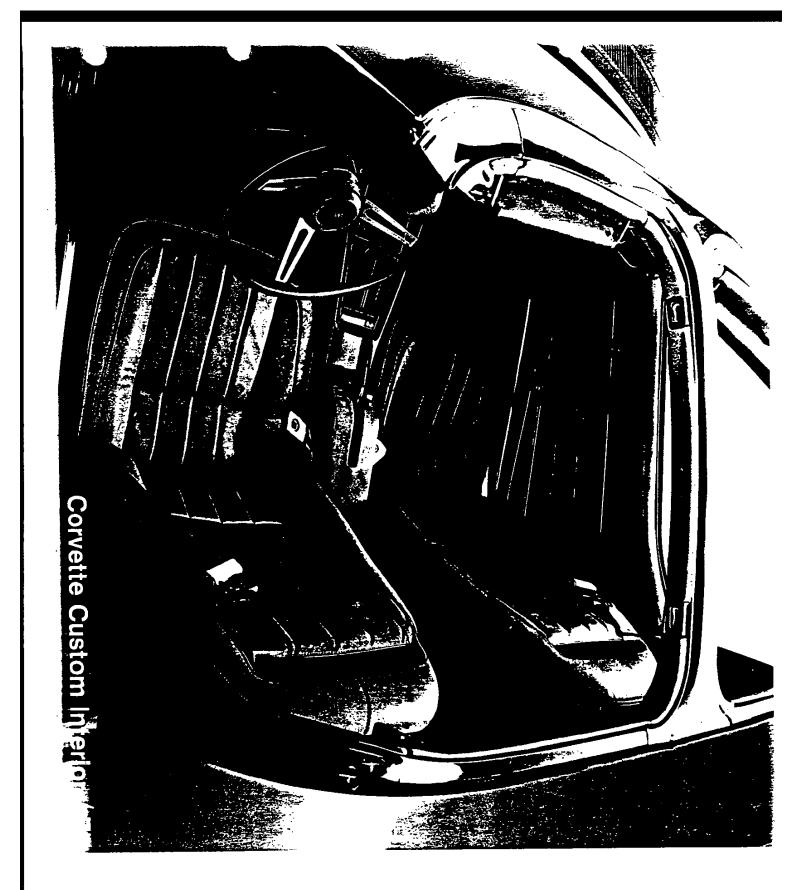








6 / Corvette all-vinyl standard interior



Interior Trim

	seat	ı	Black	Dark Blue	Dark Green	Red	Sac	Saddle
Signo	style	vinyt	teather	vinyi	vinyt	vinyl	vinyl	leather
Coupe & Convertible	bucket	400	403	412	423	407	417	420
Exterior Colors	epoo							
Mulsanne Blue	58		•	•				
Bridgehampton Blue	22			•				
Brands Hatch Green	48		•		•			
Steel Cilies Gray	86							
Ontario Orange	97		•		•			
Mille Miglla Red	76		•			•		
Nevada Silver	13		•	•	٠	•		
Classic White	0		•	•	•	•		
Sunflower Yellow	52		•		•			
War Bonnet Yellow	16		•		•			

Vinyl Roof Cover Color Choice (RPO C08)

Available for removable hardtop (RPO C07) in black only with all exterior colors.

Convertible Top Colors

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

Seat and Shoulder Belt Colors

	Red	Dark Green Dark Green	Dark Blue Dark Blue		interior trim color belt colors
Saddle	Red	Dark Green	Dark Blue	Cacx	belt colors

10 / Corvette power teams

Engines, Transmissions and Axle Ratios	and Ax	le Ratios					tran	transmissions and positraction rear axle ratios	and posit	raction re	ar axle ra	lios				
engines	sld.	4-speed (2.52:1 low) econ.* perf.* spec.*	2.52:1 low) perf.*	spec.*	std.	econ.	4-speed (2.20:1 low) econ.* perf.*	spec."	Spec std.	ial 4-spee econ.*	Special 4-speed (2.20:1 law) std. econ.* perf.* spec.*	ow) spec.*	std.	Turbo Hy econ.*	Turbo Hydra-malic econ." perf."	spec.
Standard V8 270-hp (210▲) Turbo-Fire 350 V8	3.36	3.08						-					3.08		3.36	
(RPO LT1) 330-hp (275▲) Turbo-Fire 350 V8	3.55	3,36	3.70		3.70	3.55	4.11		3.36	3.08	3.55	3.70 4.11 4.56				
(RPO LS5) 365-hp (285▲) Turbo-Jet 454 V8	3,08		3.36		3.36	3.08	3.55	3.70					3.08	2.73	3.36	i.
(RPO LS6) 425-hp (325▲) Turbo-Jet 454 V8					3.36	3.08	3.55		3.36	3.08	3.55	3.70	3.08	2.73	3.36	

*Optional at extra cost. ▲SAE net (as installed) horsepower

Equipment Included With Optional* V8 Engines

	330-hp (275A)Turbo-Fire 350	330-hp (275▲)Turbo-Fire 350 365-hp (285▲) Turbo-Jet 454	425-hp (325▲) Turbo-Jet 454
Special high-donind hood	•	• • •	
Heavier duty front stabilizer bar		•	
Heavier duty roar wheel spindle support arms	•	•	•
Rear suspension stabilizer bar		•	•
Heavy-duty front and rear shock absorbers	•		
Heavier duty clutch			•
Larger capacity radiator	•	•	•
Dual water pump and fan pulleys	•	•	•
Finned aluminum valve rocker covers	•		
Aluminum cylinder heads			•
Heavier duty battery			•
Full translator lanition system	•		•

▲SAE net (as installed) horsepower "Optional at extra cost.

transmission gear ratios (:1)

shift selector location

		to 1:1 to 1.48:1 to 2.48:1 to 2.08:1	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 Roverse - 4.37:1 to 2.08:1	Drive (270-hp (210≜) V8 330-hp (275≜) V8 425-hp (325≜) V8	Turbo Hydra-matic (RPO M40)
	2.26	1.00	1.27	1.64	2.20	425-hp (325▲) V8	Special 4-Speed Fully Synchronized (RPO M22)
	2.26	1.00	1.27	1.64	2.20	330-hp (275♠) V8 365-hp (285♠) V8 425-hp (325♠) V8	4-Speed Fully Synchronized (RPO M21)
	2.59	1.00	1.46	1.88	2.52	270-hp (210▲) V8 330-hp (275▲) V8 365-hp (285▲) V8	4-Speed Fully Synchronized (Standard)
}	æ		အ	2	1	engine	

▲SAE net (as installed) horsepower

Clutches for Corvette 4-Speed Transmission Power Teams

	270-hp (210▲)	330- (275▲)	365-hp (285▲)	425-hp (325▲)
Туре	Semi-centrifugal bent-fl	Semi-centrifugal bent-finger-design diaphragm spring with single dry disc-pearili		ic or nodutar iron pressure plate
Disc Facing Material		Premium grade	Premium grade woven asbestos	
Disc Facing Outside Diameter	11.00	10.40	11.00	10.40
Disc Facing Total Area (sg. in.)	123.70	103.53	123.70	103.53
Spring Effective Plate Load (ibs.)	2450-2750	2900-3100	2450-2750	2900-3100
Change transfer and money (many				

▲SAE not (as installed) horsepower



Corvette Coupe

















Corvette Convertible



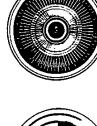






Corvette Convertible with optional removable hardtop (RPO COT)





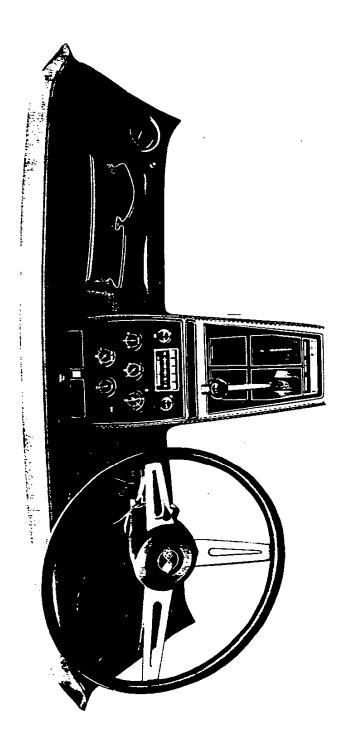


Corvette standard wheel trim Custom Wheel Cover ring with center cap (RPO PO2)

12 / Corvette exterior features

Corvette Exterior Features	Coupe	Convertible
Precision-cast bright grille	•	
Concealed headlights	•	
Front bumper guards	•	•
White lenses over amber parking/direction signal lights	•	•
Bright license plate frames	•	•
Functional front lender louvers with bright trim	•	•
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	•	
Bright wheel trim rings and center caps	•	
Side marker lights-front and rear	•	•
Bright roof drip and rear window molding	•	
Flush-mounted door handles	•	•
Removable root panels and rear window		100,000
Astro Ventilation outlet grilles on rear deck	•	
Twin-unit taillights/back-up lights with bright bezels		•
Bright exhaust oullet extensions and frames	•	•
Wraparound rear bumper with built-in guards	•	•

Correction Features	Coupe	Convertible
	•	•
Sports-styled steering wheel with black lill		
Bright-accepted Corvette horn button emblem	•	
Adjustable Astro Ventilation vent-borts		
Convanion aircraft-type center console	•	•
7000 and achometer	•	•
Anti-theft stearing column fock	•	
Illuminated heater control panel	•	•
Separate frip odometer	•	-
Ammeter, temperature, fuel and oil pressure gauges	•	•
Light monitoring system alert panels	•	*
Seat belt, door alar and headlight position indicators	•	•
Electric clock with sween second hand		•
Characte linkler in console ashtrav	•	•
Console-mounted parking brake control	•	•
Headlink high-heam indicator	•	•
The state of the s		



14 / Corvette interior features

Corvette Interior Features	Coupe	Convertible
Luxurious all-vinyl interior styling	•	•
High-backed slim-lapered bucket seats	•	
Unitized seat and shoulder belt buckle design	•	•
Tinted glass in all windows	•	•
Molded door pands with built-in armrests		•
Full door-glass styling and Astro Ventilation		•
Folding seat back latches	•	•
Custom Deluxe color-matched seat belts	•	•
Handy map and storage pockets	•	•
Glare-resistant padded instrument panel and sun visors	•	•
Parking brake and brake system warning light	•	•
Seat belt retractors	•	•
Deap-twist color-keyed floor carpeting	•	•
Vinyl-covered motted headlining	•	
Dual Courtesy lights with automatic door switches	•	•
Suspended accelerator pedał	•	
Carpeted rear compartment storage wells	•	
Day-night inside rearview mirror	٠	•
Door pull handles	•	•
Black-accented hood release handle	•	•
Special bright pedal trim	•	•
Removable roof panels and rear window	•	
Bright seat adjustment handle	•	•
Vinyl plastic rear window		•

Exterior Dimensions	Sport Coupe	Convertible	
Wheelbase	0'86	98.0	
ength (overall)	182.5	182.5	
Width (overall)	69.0	0.69	
feight (loaded)	47.8	47.9	
ront Tread	58.7	58.7	
Towns	50 A	59.4	

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Head room	37.2*	38.3
eg room	43.0	43.0
HIp room	48.8	48.8
Shoulder room	46.9	46.9
Entrance height	29.0	0.62

Luggage Compartment

Usable luggage space (cu. ft.) 6.1

Glass Area	Sport Coupe	Convertible
Windshield glass area (sq. In.)	977.4	977.4
Rear window glass area (sq. in.)	392.5	418.0
Total glass area (sq. In.)	2170.7	2196.2
Tim Size & Steering Specifications		

Standard tire size	F70 x 15	F70 x 15
Turning circle-curb-to-curb (ft.)	37.0	37.0
Turning circle-wall-to-wall (ft.)	39.0	39.0
Steering ratio-std. (overall)	20.2:1	20.2:1
Steering ratio-power (overall)	17.6:1	17.6:1

Fuel Capacity & Weight

Rated fuel tank capacity (approximate galions)	18	18
Curb weight-standard V8 (tbs.)	3292	3306
Shipping weight-standard V8 (lbs.)	3202	3216

1971



PASSENGER CAR SPECIFICATIONS

CHEVROLET

CORVETTE

ENGINEERING PRODUCT INFORMATION DEPARTMENT

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GENERAL

MODEL IDENTIFICATION .	
SERIAL NUMBERS AND IDE	NTIFICATION
EXTERIOR EQUIPMENT	4
INTERIOR EQUIPMENT	5-6
EXTRA COST EQUIPMENT	
AIR CONDITIONING EQUIPME	NT
	8

1971 CORVETTE

MODEL IDENTIFICATION

CORVETTE 19437 SPORT COUPE MODEL 19437 2-DOOR SPORT COUPE, 2-PASSENGER

CORVETTE 19467 CONVERTIBLE
MODEL 19467 2-DOOR CONVERTIBLE, 2-PASSENGER

2-GENERAL SEPTEMBER 1970 1971 CORVETTE

SERIAL NUMBERS AND IDENTIFICATION

ONLY BASIC DESIGNATIONS SHOWN

VEHIC	CLE SERIAL NUMBER	<u></u>	EN	JINE IDENTIFICATI	ON					
8-Cylinder Example:			1	Example: F1210CJL	•					
Model Ye Model 1971 19437 1	Assembly Plant (St. Louis) S	Unit Number (1st Unit)	Source Designation F (Flint)	Production* MOnth & Date 1210	Type Designation CJL					
	del built at St. Louis wo er 194371S100001		350 Cubic Inch 8-C							
	SEMBLY PLANTS			r engine, 4-speed, 4-bl r engine, Turbo Hydra						
	S - St. Louis		350 Cubic Inch 8-C	ylinder (RPO LT1)						
		ardless of series	CGY - Option	al engine, 4-speed, 4-t	obl. carb.					
		vindshield pillar	454 Cubic Inch 8-C	ylinder (RPO LS5)						
	SSION IDENTIFICAT	ION	CPH - Optional engine, 4-speed, 4-bbl. carb. CPJ - Optional engine, Turbo Hydra-Matic							
Example: P1E01 Type Sour	ce Model Year	Production [©]	454 Cubic Inch 8-C	ylinder (RPO LS6)						
Designation Designation P (Mur	ition 1971	Month & Date E10D*	CPW - Option	al engine, 4-speed, 4-t al engine, Turbo Hydi						
WT 4-Speed CY Turbo Hydra-M:		Auncie Psilanti		p front of RH bank of						
Location: 4-Speed	the right side of the		·	r, 12; 10th day of Dec	•					
Turbo Hydra-Matic	tag on right hand s		REAR	AXLE IDENTIFICA	TION					
	notes May; 01 denotes ed in identifying the Ca		Locati	on, Identification Nu	mber					
A - January D - A B - February E - M C - March H - Ju	ay M - August	R - October S - November T - December		m left or right of axle scent to carrier housin						
	N ^m following the date n ht shift, on automatic o			Power Train Section f Iditional information.						

STANDARD EXTERIOR EQUIPMENT

FRONT	AERO COUPE 19437	CONVERTIBLE 19467
Radiator Grille - Die Cast Chrome Plated Aluminum	X	X
Parking Lamps - Clear Lens	x	X
License Plate Frame, Bright	X	1 x
Retractable Headlamps, Painted Bezels	x	xx
Hood Emblem, Cross-Flags	X	X
Windshield Reveal Moldings, Bright and Painted	x	X
Concealed Windshield Wipers with Integral Washers in Wiper Arms	x	х
Front Bumper and Grille Guards, Bright	x	x
SIDE		
Front Fender and Rear Quarter Marker Lamps	X	X
Front Fender Louver - Body Color Die Cast Aluminum—Chrome Accented	x	. x
Front Fender Nameplate, "Stingray" Script	x	X
Outside Rear View Mirror	<u>x</u>	X
Rocker Panel Molding, Bright	- x	1 ×
Wheel Trim Ring and Hub Cap	<u>x</u>	X
Roof Drip Molding - Bright	X	
Removable Roof Panels	<u>x</u>	
Press-Flap Door Opening Handles-Bright	<u>X</u>	X
Key Locks-Bright	X	X
Door Belt Bead Molding-Bright	X	X
REAR		
Rear End Panel Block Letters "Corvette"	X	X
Single Outboard Tail Lamps	X	X
Single Inboard Back-Up Lamps	Χ.	X
Gas Tank Filler Door Emblem, Cross Flags	X	X
License Plate Frame and Compartment Bezel, Bright	X	X
Exhaust Pipe Extensions and Bezels, Bright	X	X
Air Outlet Grilles, Painted	X	X
Rear Bumper and Integral Guards	X	X

4-GENERAL SEPTEMBER 1970 1971 CORVETTE

STANDARD INTERIOR EQUIPMENT

•		,
	AERO COUPE	CONVERTIBLE
ROOF AND PILLARS	19437	19467
Molded Headlining, Padded with Sun Visor Pockets	X	
Windshield Pillars, Padded	X	Х
Sunshades, Padded with Brushed Hardware	X	X
Rear View Mirror, Padded with	x	x
Brushed Finish Support	^	^
Roof Center Strut, Padded with Bright Hardware	X	-
Top Header Release Latches, Bright	X	-
Removable Rear Window, Bright Frame	Х	-
Door Jamb Light Switch	Х	Х
SEATS AND FLOOR COVERING		
Bucket Scats - All Vinyl with Integral	X	
Head Restraints	X	x
Passenger and Stowage Compartment Floor	Х	x
Carpet with Sound Blanket	^	} ^
Seat Back Latch, Bright	X	X
Seat Adjuster Handle, Bright	X	X
Seat Belts (2), Bright Buckles (Mini-Buckles)	X	X
Shoulder Harness and Retractors (Positive Control)	X	-
Floor Stowage Compartment - 3-Doors, Carpeted	X	X
Floor Stowage Compartment Door Trim Rings	**	
and Push Buttons - Painted-Bright	X	X
Body Sill Plates-Bright and Painted	Х	X
Stowage Compartment Rear Wall Courtesy Lamp	X	X
Roof Panel Stowage Vinyl Bag and Tie-Down		1
Straps, Color-Keyed	х	-
DOOR AND QUARTER PANEL		
Molded Door Trim Panel with	<u></u>	<u>.</u>
Stitching and Built-In Armrest	х	X
Door Assist Handle - Vinyl	X	X
Door Remote Control Handle-Chrome and Painted	X	X
Door Locking Knobs and Escutcheons-		
Chrome and Painted	x	X
Door Trim Panel Applique	X	X
Door Locks - Free Wheeling	X	X
Window Control Handle-Bright, Plastic Knob	X	x

1971 CORVETTE SEPTEMBER 1970 GENERAL-5

STANDARD INTERIOR EQUIPMENT

INSTRUMENT PANEL, CONSOLE AND STEERING WHEEL	AERO COUPE 19437	CONVERTIBLE 19467
Instrument Panel Pad - Trim	X	x
Color-With Stitching		ſ
160 MPH Speedometer with Trip-O-Dometer	X	X
7000 RPM Tachometer	X	X
Headlamp Rotation and Main Light Switch	X	X
Windshield Washer and Wiper Control-Black-Painted	X	X
"Astro-Ventilation" Air Outlets and Control Knobs-Bright	x	x
Instrument Panel Map Pocket - R.H.		x
Electric Clock		x
	x	x
Ammeter, Temperature, Fuel and Oil Pressure Gauges		
Headlamp Hi-Beam Indicator		x
Seat Belt, Door Ajar and Headlamp Indicators	<u> </u>	
Hood Release Lever-Black-Painted	X	X
Lamp Monitoring Indicators	х ·	X
Rear Compartment Glove Box with	x	x
Lamp-Carpeted Door	x	x
Ash Tray and Lighter	<u>x</u>	
Parking Brake Warning Light		
Heater Controls-Thumb Wheel	x	<u>x</u>
Air Vent Control Knobs-Black Plastic	X	x
White Letters "Close"		x
Shift Quadrant-Black With Bright Lettering	<u> </u>	
Floor Center Console and Trim Plate-	x	X
Padded, Morocco Finish		}
Floor Center Console Trim Plate "Crossed	X) x
Flags" Emblem and Engine I.D.		
Parking Brake Lever-Black-Bright	X	X
15" Black Vinyl Steering Wheel, Bright Trim	X	<u> </u>
Horn Button Cap - Painted, Grained	<u> </u>	<u> </u>
Horn Button Cap Emblem-Bright, Painted	X	<u> </u>
Hazard Warning Switch-Bright	<u> </u>	X
Turn Signal Indicators and Control	x	l x
Lever-Bright, Painted		
Steering Column Ignition Switch and	x	x
Lock-5-Position Painted		
Center Cluster, Morocco Finish	<u>x</u>	<u> </u>
Center Cluster "Corvette" Nameplate	<u>x</u>	X
Floor Console - Vinyl Grain Covered	X	<u> </u>
GLASS (TINTED)		
Windshield, Laminated Safety Plate	X	X
Door Windows with "Astro-Ventilation"		
Monogram, Safety Solid Plate	x	x
Removable Rear Window, Safety Solid Plate	X	
Rear Window, Vinyl Plastic*		 x
1		1 ""

^{*} Safety soid plate in optional auxiliary top.

EXTRA COST EQUIPMENT

EQUIPMENT		
	RPO	ACC
POWER TEAMS		
330-hp Turbo-Fire 350 V-8	LT1	1
365-hp Turbo-Jet 454 V-8	LS5	Ì
425-hp Turbo-Jet 454 V-8	LS6	
4-Speed manual transmission - close ratio	M21	
4-Speed manual transmission - H.D. close ratio	M22	
Turbo Hydra-Matic automatic transmission	M40	
Rear Axle:		
Economy ratios	ZQ8	į
Performance ratios	ZQ9	,
Special 3.70 ratio	YE1	
Special 4.56 ratio	YE2 YE3	1
	1 23	1
POWER ASSISTS		
	_	t .
Brakes, Power	J50	
Steering, power	N40	1
manus, power	A31	}
		1
OTHER OPTIONS		
Air conditioning, four season	C60	ļ
Alarm system, horn	AU6	
Battery, heavy duty	T60	
Belts, shoulder - Convertible only	A85	
Cap, locking gas filler		ACC
Carrier, rear deck Compass		ACC
Defroster, rear window (forced air)		ACC
Fire extinguisher	C50	ACC
Floor mats, clear vinyl twins		ACC
Highway emergency kit - fire extinguisher, tire inflater, fuses		ACC -
Litter container		ACC
Radio equipment: Radios, Pushbutton — Includes rear deck antenna		1350
AM/FM Radio	U69	ACC
AM/FM/Stereo Radio	บ79	ACC
Roof cover, vinyl – Auxiliary top required	C08	
Safety seat - child		ACC
Safety seat - infant	i	ACC
Spotlight, hand portable		ACC
Suspension, special front and rear	N37	l
Top, auxiliary - Convertible only	F41 C07	
Top, Convertible (colors)	COS	
Wheel covers, special	P02	
EACTORY INICIALLED DEGLE AD DEGREE COMME		
FACTORY INSTALLED REGULAR PRODUCTION TIRES		
F70 x 15 B special nylon white stripe	PT7	
F70 x 15 B special nylon white letters	PU9	
	!	

AIR CONDITIONING

FOUR-SEASON (RPO C60)

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

BASIC COMPONENTS

Evaporator, blower, condenser, receiver - dehydrator, refrigerant (freon) tank, air intake assembly and duct assembly for both systems.

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

CHASSIS Front and Rear Springs Rear Axle Ratio - Refer to Power Trains Section POWER TRAINS Fan Blade Crankshaft Pulley Water Pump & Fan Pulley Compressor & Crankshaft Belt Generator Heavy duty Duduty Trains Section 7 blade Dual Dual Crankshaft Pulley Dual Compressor & Crankshaft Belt Generator 61 Ampere

DIMENSIONS AND WEIGHTS

IN LEKTOR DIMENSIONS	•	•	•	•	٠	٠	•	٠	•	•	٠	٠	•	٠	٠	٠	•	٠	•	٠	•	٠	•	•	2
EXTERIOR DIMENSIONS	•			-		•	•				•		•		•	•		•	•		•	•			3
VEHICLE WEIGHTS			_	_	_		_		_			_	_	_		_	_		_	_	_	_	_		4

INTERIOR DIMENSIONS

LENGTHS

		19437	1946 7					
CODE	DESCRIPTION	COUPE	FOFT FOE	HARDTOP				
H30	H point to heel point		6.8					
H37	Headlining to roof height	-0.7		D:9				
H54	D point to tunnel		-4.0					
H58	H point rise	i	0-4					
H61	Effective headroom	31.2	38.3	37.1				
H67	Depressed floor covering thickness		0.2					
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						
L44	Knee angle (degrees)	136.0						
L46	Foot angle (degrees)		388.0					
L53	H point to accelerator floor point	36.1						

SEAT AND ENTRANCE

Seat chair height	18.5	
	29.0	
Interior body height, M/M @.car centerline	.33.4	
Interior body, M/M @ C/LO	40.0	
Seat cushion deflection	2.2	
	¥3.6	
Shoulder room	46.9	
Hip room	48.€	
	18.5	
	3.7	
	14.5	
	Seat cushion deflection Upper body opening to ground	Entrance height 29.0

VISION AND CONTROL

Н6	H point to W/S bottom DLO	19.8	
H13	Steering wheel thigh clearance	42	
H18	Steering column angle (degrees):horizontal	14.1	
H25	Belt height	17.5	
H49	H point to top of steering wheel	1.0	
W7	Steering wheel center to car centerline	12.7	
W9	Steering wheel maximum O.D.	15:0	
W122	Tumble-home (degrees)	26.5	
L7	Steering wheel torso clearance	312.4	
L13	Brake pedal knee clearance	.24.5	
L52	Brake pedal to accelerator	39	

LUGGAGE COMPARTMENT

•				
ı	V1	Luggage Capacity - Usable (Cu.Ft.)	£ 31	5.30

EXTERIOR DIMENSIONS

LENGTHS

CODE	DESCRIPTION	19437	19	467		
CODE	DESCRIPTION	COUPE	HARDTOP			
L101	Wheelbase		98.0			
L102	Tire size (standard)		F70-15			
L103	Overall length		182.5			
L104	Overhang - front		40.6			
L105	Overhang - rear		43.9			
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				
L30	Vertical O line to actual front of dash	-1.7				

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	107.4

HEIGHTS

H101	Overall height (design)	47.8	47.9				
H102	Front bumper to ground		19.2				
H104	Rear bumper to ground	13.2	13.0				
H111	Rocker panel to ground - rear		6.7				
H112	Rocker panel to ground - front		6.7				
H114	Hood at rear to ground		26.6				
H115	Step height - front (design)	13.1					
H122	W/S slope angle (degrees)	57.0					
H125	Headlamp to ground		25.4				
H126	Tail lamp to ground	27.1	26.9				
H130	Step height - front (curb)	13.7	13.6				
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		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		5.7				
H149	Oil pan to ground	4.8					
H150	Flywheel housing to ground	5.2					
H151	Frame to ground		5.4				
H152	Exhaust system to ground	4.8	4.5				
H153	Rear axle to ground		6.0				
H155	Tire well to ground	5.1					
H156	Minimum ground clearance	4.8*	4.5*				

^{*-}Position on car - exhaust system to ground.

CORVETTE

Model	VEHICLE TYPE	SH	IPPING WEIG	ЭНТ	С	URB WEIGH	T
Symbol	Description	Front	Rear	Total	Front	Rear	Total
19437	2-Door Sport Coupe	1634	1568	3202	1616	1676	3292
19467	2-Door Convertible	1608	1608	3216	1590	1716	3306

SHIPPING WEIGHT: Weight of basic vehicle with regular equipment, including grease, oil, engine coolant to capacity and (3) gallons of gasoline.

CURB WEIGHT: Shipping weight plus gasoline to capacity.

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

RPO		OPTION	WEIGHT			
		With 270 HP Engine & 4-Speed Transmission				
		With 270 HP Engine & Automatic Transmission	+ 84			
C60	Air Conditioning	With 365 HP Engine & 4-Speed Transmission	+ 98			
		With 365 HP engine & Automatic Transmission	+ 89			
C07	Auxiliary Top	With Folding Top Only	+ 55			
A31	Power Windows		+ 10			
J50	Power Brakes		+ 10			
	350 Cu.In. V8 Engine (270 HP)	With Turbo Hydra-Matic Transmission	+ 88			
LT1	350 Cu.In. V8 Engine (370 HP)	With 4-Speed Transmission	+ 62			
	444 C. V. 100 France (265 HP)	With 4-Speed Transmission	+220			
L\$5	454 Cu.In. V8 Engine (365 HP)	With Turbo Hydra-Matic Transmission	+268			
	454 C 1 110 Finding (425 HT)	With H.D. 4-Speed Transmission	+ 82			
LS6	454 Cu.In. V8 Engine (425 HP)	With Turbo Hydra-Matic Transmission				
		With 270 HP Engine	+ 24			
N40	Power Steering	With 330 HP Engine	+ 26			
		With 365 & 425 HP Engine	+ 28			
P02	Deluxe Wheel Covers		+ 18			
	- :: 434774 P. 3 P. 444	With 350 Cu.In. Engine	+ 14			
U69	Radio, AM/FM Push Button	With 454 Cu.In. Engine	+ 11			

BODY

EXTERIOR PAINT PROCESS	٠	٠	•	٠	•	٠	٠	٠	٠	•	٠	•	•	•	٠	٠	٠	•	•	٠	4
EXTERIOR-INTERIOR COLORS									•			•			•		•		•	•	3
BODY CONCEDITION AND CI			•		ъ	E															_

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.
- 3. WET SANDING. The body is wet sanded to provide a smooth 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.

- 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.
- 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 acratches 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.

		INTERIOR TRIM COLORS & RPO NO'S.										
	Interior Trim	Black	Dark Saddie	Red	Dk. Brt. Blue	Dark Green						
Standard	Vinyl	400	417	407	412	423						
Custom*	Leather	403	420	_	-	-						

CODE	EXTERIOR COLOR					
10	Classic White	X	X	l x l	Х	X
13	Nevada Silver	X	1	1 x 1	X	X
26	Mulsanne Blue	x			x	
27	Bridgehampton Blue	X	1		X	
48	Brands Hatch Green	X	X			X
52	Sunflower Yellow	X	X			X
76	Mille Miglia Red	Х	1	X		1
91*	War Bonnet Yellow	X	X	1		X
97*	Ontario Orange	Х	X	1		X
98*	Steel Cities Gray	Х	1	† †		1

^{*}Special "Firemist" colors.

Convertible Top: Black or White with any exterior color.

Vinyl Top: Used with auxiliary top only, Black with any exterior color.

*-Includes leather seat trim, special cut pile carpeting on floor and lower door side walls.

Wood grain insert on floor console. Wood grain insert with bright die cast molding on door side wall.

1971 CORVETTE SEPTEMBER 1970 BODY-3

BODY CONSTRUCTION AND GLASS AREA

GENERAL Construction	SEATS Type and construction
DOORS AND LOCKS Construction	Type
Operation Internal release lever. Front hinged with telescoping link on right side. Ratchet-type lock for hold open.	SPARE TIRE Location In well under fuel tank; accessible from underside of car. Cover with key lock provided.
VENTILATION Type Astro Ventilation cowl top air inlets channel air to cowl side kick panel outlets controlled by bowden cable and slide type levers mounted in instrument panel center console. Water drainage at base of "saddlebag" plenum chambers.	TOOLS Type

BODY GLASS VISIBILITY AREA

	MODELS		
LOCATION	37	67	
Windshield	977.4		
Door window	8.00.8		
Back window	392.5	418.0*	
Total area (sq.in.)	2170.7	2196.2*	

Windshield – Laminated safety plate (tinted)

Doors and Removable Rear Window on hardtop – solid safety plate (tinted).

Rear window on convertible – vinyl plastic.

(*) Removable auxiliary top - 620.1; total - 2398.3.

CHASSIS

FRAME AND FRONT SUSPENSION	•
STEERING, DRIVELINE, WHEELS AND TIRES	:
REAR AXLE AND SUSPENSION	4
BRAKES	4
BULBS AND LAMPS	•
CHICEC AND CIDCHIT DDE AVEDO	

FRAME AND FRONT SUSPENSION

FRAME Description	SPHERICAL JOINTS Type Ball stud Upper Compression lower Compression Bearing surfaces Upper Teflon-coated phenolic Lower Teflon-coated phenolic
FRONT SUSPENSION	
Description	SHOCK ABSORBERS Type Direct, double-acting, hydraulic Piston diameter 1.00 STABILIZER BAR Type Link
Wheel to spring, travel ratio 1.63	Material
CONTROL ARMS Description Reinforced steel stamping with pre-loaded steel encased rubber bushings at pivot.	Bushing material Rubber
74444	FRONT WHEEL ALIGNMENT (CURB)
STEERING KNUCKLES Description	Camber (degrees) 0 to P1-1/2 Caster (degrees) 0 to P2 Toe-in (total) 3/16 to 5/16 Steering Axis Inclination (degrees) 6-1/2 to 7-1/2
Spindle diameters Inner bearing	GENERAL SUSPENSION PROVISIONS Car leveling

FRONT SPRINGS

Part	Ref.	Туре	Material	Cut-off	Wire	Inside	Heights Working	Deflection Rate (lbs per inch)	
Number		1	·	Length Dia.	Dia.	(In.@ lbs)	@ Spring	@ Wheel	
3931823	A	Coil, R.H.	Steel	138.25	.600	3.80	9.99@1395	250	61.8
3931825	В	helix	alloy	138.75	.618	3.80	9.99 @ 1540	284	71.8

Engine	350 Cu.In. V-8	454 Cu.In. V-8
Model	19400	19400
Reference	Ä	В

STEERING, DRIVELINE, WHEELS AND TIRES

MANUAL STEERING, regular production	DRIVELINE
Description Semi-reversible gear	Type Tubular propeller shaft
with ball-nut driven by recirculating anti-	Number used One
friction bearings, energy absorbing steering	Diameter (OD)
column, steering damper attached to relay rod;	Manual 2.0
two-position steering knuckle arm attachment	Turbo Hydra-Matic 2.0
for street and fast ratio steering. Adjustable	Length (/L of U-joints)
steering column available optionally.	Manual 29.90
System ratios	Turbo Hydra-Matic 29.50
Steering gear 16:1	Wall thickness
Overall ratio	Manual
Street	Turbo Hydra-Matic
Fast	Universal joints
Turning diameters (ft)	Type Cros
Outside front, wall to wall	Number used Two
Outside front, curb to curb	Bearings Prepack, anti-friction
Number of wheel turns, lock to lock	Drive and torque forces Through rea
Street	suspension control arm
Fast 2.92	
Outside wheel angle with inside wheel	WHEELS (Regular Production)
@ 15 degrees 14.25	Type Short spoke spide
@ 20 degrees 18.47	Attachment to hub 5 hex nuts
@ 34 degrees (limit of turn) 27.34	7/16-20 UNF 2-B, arranged on a 4.75 diameter
Linkage Parallelogram type,	bolt circle
rear of front wheels	Offset N.28
Steering wheel	Rim size 15 x 8.00
Standard and optional telescoping wheel Deep	
dished, 15.0 diameter	TIRES
•	Construction Nylon – 2-ply
	Size and ply rating F70-15B-4PF
	Specifications
POWER STEERING, RPO N40	Static Loaded Radius 12.6
(Same as standard manual steering except as shown)	Loaded rev/mi @ 45 MPH 772
Description	Capacity (lb @ psi)
powered cylinder assisting linkage	Recommended inflation, all tires, psi
Ratios Gear, 16:1; overall, 17.6:1	Cold
Number of wheel turns, lock to lock 2.92	Hot

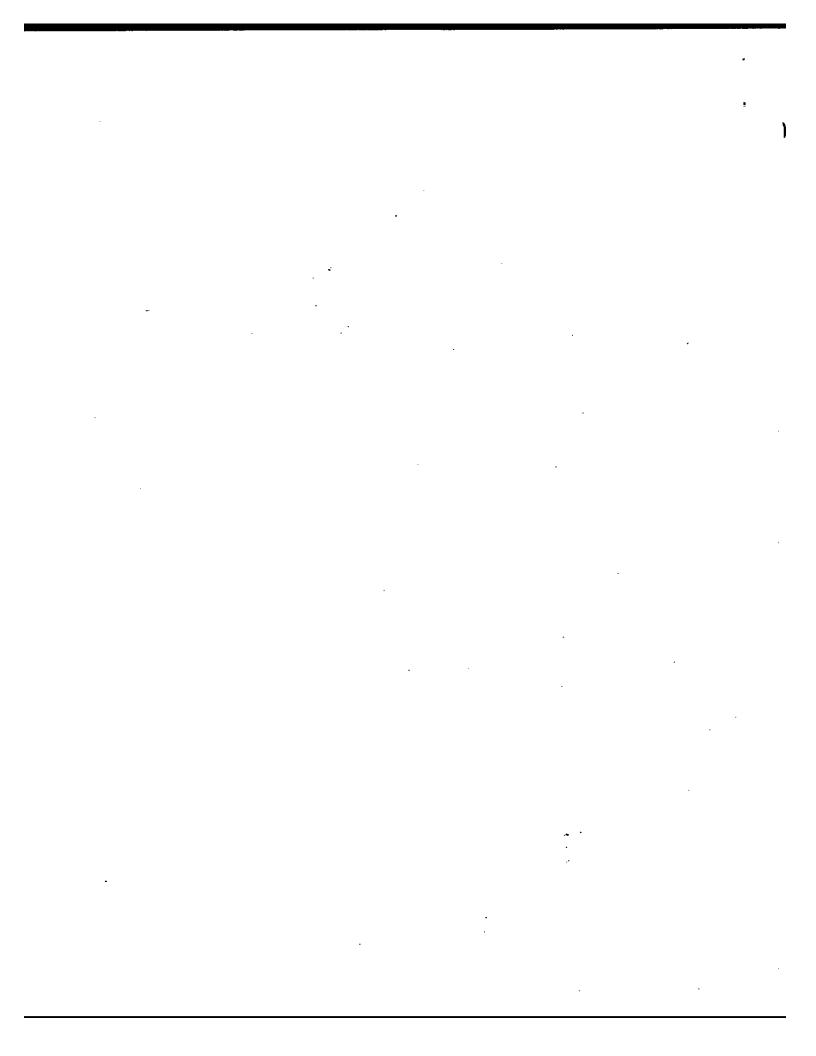
REAR AXLE AND SUSPENSION

REAR AXLE	SHOCK ABSORBERS
Description Fixed differential housing hypoid ring and pinion gear set, tubular articulating inner axie shafts and short solid outer shafts with integral drive flange, independently sprung rear wheels	Type Direct, double-acting, hydraulic Piston diameter
Pinion offset	STRUT
Type	Diameter
RING AND PINION GEARS	STABILIZER BAR (454 V8)
Axle Tooth	Diameter
Ratio Combination	
2.73	
3.08	- maps
3.36	
3.55	REAR WHEEL ALIGNMENT
3.70	Curb
4.11	Camber (degrees) N1-3/8 to N 3/8
4.56	Toe-in (total) 1/32 to 3/32
AXLE SHAFTS	
Inner Welded steel	
tubing with universal joint attachments to short	
shafts at each end.	TORQUE CONTROL ARMS
Outer Short, splined high-alloy steel with integral wheel mounting flange	Description Welded steel box construction
Axle bearings	
Type Inner and outer tapered roller, steel encased rubber bearing seals	
	REAR SPRING
REAR SUSPENSION	Type Variable rate, 9-leaf
Description Full independent	Material Chrome carbon steel, heat treated
with frame-anchored differential. Position of	Length (developed) between eye centers 46.36
each wheel established by 3 links: tubular axie	Width
drive shafts, transverse strut rods, torque	Design load, ib @ camber
control arms. Vertical suspension loads taken by	Deflection rate, lb per inch, @ design load @ Spring
transverse leaf spring. Built-in camber adjust-	@ Wheel (wheel rate)
ment at strut rod inner ends.	Spring liners
Wheel travel (design height)	Number
Coupe Conv. Total 6.86 6.86	Location Between all leaves
Jounce 2.87 2.76	except numbers 6 and 7
Rebound 3.99 4.10	Material Polyethylene with graphite

CIRCUIT	TYPE OF PROTECTION	LOCATION AND CIRCUIT*		
Air conditioning	AGC 30 fuse	In line		
A in a second se	AGC 25 fuse	Fuse panel (f)		
Air conditioning lamp Back-up lamps	AGC 5 fuse	Fuse panel (d)		
	AGC 20 fuse	Fuse panel (b)		
Cigarette lighter	AGC 25 fuse	Fuse panel (c)		
Cigarette lighter lamp	AGC 5 fuse	Fuse panel (d)		
Clock	AGC 25 fuse	Fuse panel (c)		
Clock lamps	AGC 5 fuse	Fuse panel (d)		
Courtesy lamps	AGC 25 fuse	Fuse panel (c)		
Defogger, rear window	AGC 10 fuse	Fuse panel (c)		
Direction signal indicator lamp	AGC 20 fuse	Fuse panel (d)		
Fuel gage	AGC 10 fuse	Fuse panel (b)		
Glove compartment lamp	AGC 25 fuse	Fuse panel (c)		
Headlamp hi-beam indicator lamp	15 amp CB	Light switch (g)		
Headlamp warning indicator lamp	40 amp CB	Hinge pillar (h)		
Headlamps	CB	Light switch (g)		
Heater	AGC 25 fuse	Fuse panel (f)		
Heater lamp	AGC 5 fuse	Fuse panel (d)		
Ignition switch lamp	AGC 5 fuse	Fuse panel (d)		
Instrument cluster lamps	AGC 5 fuse	Fuse panel (d)		
License plate, rear	AGC 20 fuse	Fuse panel (a)		
Brake warning lamp	AGC 10 fuse	Fuse panel (b)		
Parking lamps	20 amp fuse	Fuse panel		
Power windows	30 amp CB	Firewall		
Radio	AGC 10 fuse	Fuse panel (e)		
Radio lamp	AGC 4 fuse	Fuse panel (d)		
Side Marker lamp - Front	AGC 20 fuse	Fuse panel		
Side Marker lamp - Rear	AGC 20 fuse	Fuse panel		
Spot lamp, portable	AGC 15 fuse	In line		
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	25 amp fuse	Fuse panel		

^{*} Letter suffix indicates same circuit

1971 CORVETTE SEPTEMBER 1970 CHASSIS—7



SERVICE BRAKES (Regular Production)
Type 4-wheel hydraulic caliper
disc brakes; dual-circuit brake system, pressure
differential and parking brake warning light
Line pressure; psi, @ 100 lb pedal load 576
Braking ratios
Pedal 5.23
Hydraulic 43.3
Overal!
Distribution of braking effort Front 65.0
Brake disc
Construction Double faced disc spaced by
integrally cast radial cooling passages
Material
Diameter, front & rear 11.75
Swept drum area (sq.in.)
Brake lining
Material Woven asbestos
Size, all segments (L x W x T) 5.96 x 2.21 x .41
Method of attachment Riveted
Total effective area (sq.in.) 78.1
Gross lining area (sq.in.) 86.3
Master cylinder
Piston diameter 1.00
Piston travel (with available pedal travel) 1.10
Wheel cylinders
Number 4 per wheel
Piston diameter
Front 1.875
Rear 1.375
Foot pedal travel 5.75

PARKING BRAKE
Type Drum; cast integral
with each rear rotor. Internal expanding shoes, mechanically actuated
Control Lever; floor mounted in center console
Drum diameter 6.5
Brake lining
Number 2 shoes per each rear wheel
Size (L x W x T) 6.78 x 1.25 x .175
Gross lining area (sq.in.)

BULBS AND LAMPS	NUMBER REQUIRED AND TRADE NUMBER	CANDLE POWER PER LAMP
Back-up	2-1156	32
Cigarette lighter	1-1445	1
Clock	1-1895	2
Courtesy		
Instrument panel	2-631	6
Rear compartment	1-90	6
Direction signal indicator	2-1895	2
Outer Headlamp	2-4002	High beam 37.5W Low beam 55.0W
Inner	2-4001	High beam 37.5W
Headlamp hi-beam indicator	1-1895	2
Headlamp warning indicator	1-1895	2
Heater or air conditioning control	1-1816	2.5
Instrument cluster	12-1895	2
License plate rear	1-97	4
Parking		
Park	2-1157	3
Turn	2-115/	32
Parking brake alarm & warning light	1-1895	2
Radio	1-1893	2
Compartment Stovage Box	1-1895	2
Side Marker - Front	2-168	3
Side Marker - Rear	2-168	3
Spot lamp, portable	1-4416	30W
Tail		
Stop and turn	0.1157	32
Tail	2-1157	3
Stereo indicator	1-2182	0.3
Door ajar indicator	1-1895	2
Seat belt warning indicator	1-194	2
Transmission indicator	1-1895	2
Washer fluid level indicator	1-168	3

POWER TRAINS

POWER TEAM COMBINATIONS	2
POWER TEAM MULTIPLICATION FACTORS	2
ENGINE DATA AND RATINGS	3
ENGINE SPEED AND PISTON TRAVEL	3
VEHICLE PERFORMANCE FACTORS	4
PRINCIPAL COMPONENTS	5
FUEL SYSTEM	10
EXHAUST AND VENTILATION SYSTEM	10
LUBRICATION SYSTEM	11
COOLING SYSTEM	12
ELECTRICAL SYSTEM	13
CLUTCHES	14
THREE AND FOUR SPEED TRANSMISSIONS	14
TURBO HYDRA-MATIC TRANSMISSION	15

POWER TEAM COMBINATIONS

MODEL

AXLE RATIOS (A)

ENGINE	TRANSMISSION	APPLICATION	2.73:1	3.08:1	3.36:1	3.55:1	3.70:1	4.11:1	4.56:1
Turbo-Fire 350	4-Spd (2.52:1 low)	All Models		(Econ.)	(Std.)		Service Compa		*,-
350 Cu.In. V-8 270 HP Standard	Turbo Hydra-Matic			(Std.)	(Perf.)		海 蒙		2.4
Turbo-Fire 350	4-Spd (2.52:1 low)				Econ.	Std.	Perf.	19.4 1. 11.60	
350 Cu.In. V-8	4-Spd (2.20:1 low)	All Models		-,		Econ.	Std.	Perf.	
330 HP RPO LT1	H.D. 4-Spd (2.20:1 low)			Econ.	Std.	Perf.	Spci.	Spcl.	Spcl.
Turbo-Jet 454	4-Spd (2.52:1 low)			(Std.)	Perf.	Ŷ.		77.7	
454 Cu.In. V-8	4-Spd (2.20:1 low)	All Models		Econ.	Std.	Perf.	Spcl.	Ser Jagers	
365 HP RPO LS5	Turbo Hydra-Matic	10-11-11-1	Econ.	(Std.)	Perf.		1	r manager in	
Turbo-Jet 454	4-Spd (2.20:1 low)		Econ.	Std.	Perf.				
454 Cu.In. V-8	H.D. 4-Spd (2.20:1 low)	All Models		Econ.	Std.	Perf.	Spcl.	Spcl.	
425 HP RPO LS6	Turbo Hydra-Matic		Econ.	Std.	Perf				

(A) Air conditioning available only with combination, as indicated by parenthesis ().

Std.-Standard

Econ.-Economy (optional)

Perf.-Performance (optional)

Spel.-Special (optional)

MULTIPLICATION FACTORS

WITH MANUAL TRANSMISSION

F13.10073.TP1	CARRYINETCA		7	AXLE				
ENGINE	CARBURETION	TRANSMISSION	1st	2nd	3rd	4th	Rev	RATIO
350 Cu.In. V-8 270 HP Standard	4-Barrel	4-Speed (2.52:1)	8.47	6.32	4.91	3.36	8.70	3.36
350 Cu.In. V-8 330 HP RPO LT1	4-Barrel	4-Speed (2.52:1)	8.95	6.67	5.18	3.55	9.19	3.55
		4-Speed (2.20:1)	8.14	6.07	4.70	3.70	8.36	3.70
	}	H.D. 4-Spd (2.20:1)	7.39	5.51	4.27	3.36	7.59	3.36
454 Cu.In. V-8	4.0.	4-Speed (2.52:1)	7.76	5.79	4.50	3.08	7.98	3.08
365 HP RPO LSS	4-Barrel	4-Speed (2.20:1)	7.39	5.51	4.27	3.36	7.59	3.36
454 Cu.In. V-8 425 HP RPO LS6	4-Вапе!	4-Speed (2.20:1)	7.39	5.51	4.27	3.36	7.59	3.36

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	3.08:1
and	Hydra-Matic	Second	16.05:1 - 4.56:1	3.06.1
454 Cu.In. V-8		Reverse	13.46:1 - 6.41:1	

^{*-}Axle ratio x transmission ratio

GENERAL DATA

Engine Type			V-8 OHV					
Piston Displacement (Cu.In.)		3:	50	454				
Availability		Standard	RPO LT1	RPO LS5	RPO LS6			
Number of cyl	inders		Eigh	it	·			
Bore and Strok	ce (nominal)	4.00	x 3.48	4.251	x 4.00			
Compression Ratio		8.5:1	9.00:1	8.5:1	9.00:1			
Taxable (SAE) Horsepower		51	2	57	57.8			
Firing Order		1-8-4-3-6-5-7-2						
Idling	Manual Trans. (In Neutral)	600	700	600	700			
Speed	Automatic Trans. (In Drive)	550		600	700			
	ress. (PSI) @ Cranking Speed, Engine Hot	150 160			50			
Power Plant M	ounting	Two front and one rear, compression type			'pe			
Fan to rear of engine block		30.16		33.96				
Measurements	Top air cleaner to bottom oil pan	26.	.79	27.	.62			
	Exhaust manifold to generator (width)	27.	27.97		30.00			

ADVERTISED ENGINE RATING

Engine	350 (Cu.In.	454 Cu.In.		
	270 HP	330 HP	365 HP	460 HP	
Availability	Standard	RPO LT1	RPO LS5	RPO LS6	
Gross Brake HP @ RPM	270 @ 4800	330 @ 5600	365 @ 4800	425 @ 5600	
Gross Torque @ RPM (lb-ft)	360 @ 3200	360 @ 4000	465 @ 3200	475 @ 4000	
Net Brake HP @ RPM	210@4400	275 @ 5600	285 @ 4000	325 @ 5600	
Net Torque @ RPM (lb-ft)	300 @ 2800	300 @ 4000	390 @ 3200	390 @ 3600	

ENGINE SPEED AND PISTON TRAVEL

Engine		350 Ct	350 Cu.In. Std.		350 Cu.In. LT1		454 Cu.In.		
Transmission		4-Speed	Trb/Hyd.	4-S	peed	4-Sr	eed	Trb/Hy	
Rear Axle Ratio			3.08:1	3.55:1	3.70:1 (a)	3.36:1 (a)	3.08:1 (a)	3.08:1	
Tire Size	F70 x 15B								
Crankshaft Revolutions per	2580.5	2365.4	2726.4	2841.6	2580.5	236	5.4		
	Low	108.4	97.8	114.5	104.2	94.8	99.4	97.7	
	Second	80.9	58.4	85.4	77.7	70.6	74.1	58.4	
Crankshaft RPM @ MPH	Third	62.8	39.4	66.3	60.2	54.7	57.6	39.4	
	Fourth	43.0		45.4	47.4	43.0	39.4	1545	
	Reverse	111.4	82.0	117.8	107.0	97.4	102.1	82.0	
Piston Travel (Ft/Mile)		1496.7	1371.9	1581.3	1648.1	1720.3	157	6.9	

(a) Available with close ratio (2.20:1) transmission

VEHICLE PERFORMANCE FACTORS

ENGINE	BASE 350 CU.IN. 270 HP	RPO LT1 350 CU.IN. 330 HP	RPO LS5 454 CU.IN. 365 HP	RPO LS6 454 CU.IN. 425 HP	
--------	------------------------------	---------------------------------	---------------------------------	---------------------------------	--

A-SPEED TRANSMISSION

Performance Weight (pounds)	3592	3654	3812	AND COMMEN
Pounds per Gross Horsepower	13.30	11.07	10.44	Market Come of
Pounds per Cu.In. Displacement	10.26	10.44	8.40	Sergen Comment
Gross HP per Cu.In. Displacement	.771	.943	.804	September 1
Power Displacement (cu.ft./mile)	261.33	276.11	310.73	A STATE OF THE STA
Displacement Factor (cu.ft./ton mile)	145.18	150.88	162.68	

4-SPEED TRANSMISSION - CLOSE RATIO

A CONTRACTOR OF STREET	0754	2012	3674
	3034		
**************************************	11.07	10.44	8.64
	10.44	8.40	8.09
STATE OF THE STATE	.943	.804	.956
**************************************	287.78	338.99	338.99
100000	157.26	177.48	167.06
		11.07 10.44 .943 287.78	11.07 10.44 10.44 8.40 .943 .804 287.78 338.99

TURBO HYDRA-MATIC

Performance Weight (pounds)	3680		3860	3724
Pounds per Gross Horsepower	13.63		10.57	8.76
Pounds per Cu.In. Displacement	10.51	SHANNEL CO.	8.50	8.20
Gross HP per Cu.ln. Displacement	.771.		.804	.956
Power Displacement (cu.ft./mile)	239.55		310.73	310.73
Displacement Factor (cu.ft./ton mile)	130.19		161.00	184.23

GLOSSARY

Performance Weight

Curb Weight plus 300 Lb

(weight of two 150 lb passengers)

Power Displacement

Crankshaft Revs/Mi x Piston Displacement 2 x 1728

Displacement Factor

Power Displacement Performance Wt (tons)

CYLINDER BLOCK Material Cast alloy iron Bore Diameter 3.9995-4.0025 V8-350 Cu.In 4.2496-4.2524 Bore Spacing (Centerline to Centerline) 4.4 (2496-4.2524) V8-350 Cu.In 4.4 V8-454 Cu.In 4.84 Bearing Caps (Number, material & attachment) V8-350 Cu.In 5, cast iron; 2-bolt V8-350 (LTI) No. 1 & 5, cast iron; 2-bolt No. 2, 3 & 4, nodular iron; 4-bolt V8-454 (LS5) 5, cast iron; 2-bolt V8-454 (LS6) 5, cast iron; 4-bolt Water Jackets Full length around each cylinder	EXHAUST MANIFOLD Material
CYLINDER HEAD Material High chrome cast alloy iron Cast aluminum with (LS6) Bolt Number 34 (350 Cu.In.); 32 (454 Cu.In.)	,
Bolt Size	CRANKSHAFT Material
COMBUSTION CHAMBER VOLUME	V8-350 Cu.In Nodular iron
(Total chamber volume of assembled engine with piston	V8-350 (LT1) Forged steel
at top center)	V8-454 Cu.In Forged steel
V8-350 Cu.In. (Base) 6.08 Cu.In.	End Play
V8-350 Cu.In. (LT1) 5.54 Cu.In.	V8-350 Cu.In
V8-454 Cu.In. (LS5) 7.79 Cu.In.	V8-454 Cu.In
V8-454 Cu.in. (LS6) 7.28 Cu.in.	Counter Weights 6
7,000	Crank Arm Length
	V8-350 Cu.In 1.74
INLET MANIFOLD	V8-454 Cu.In
Material Cast alloy iron	Torsional Damper Rubber mounted inertia
Cast aluminum with RPO LS6 & LT1	Timing Gear Steel; sprocket & chain
Type 8 port, double deck	Pulley Pitch Diameter 6.64

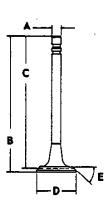
350 CUBIC INCH V-8 ENGINES

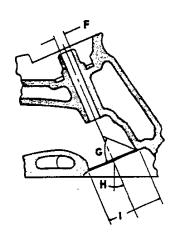
MAIN BEARINGS NO. 1 NO. 2 NQ. 3 NO. 4 NO. 5 .930 BRGS. .995 1.720 .950 2.0988 --- FRONT 2.0998 SAME ALL CONN. ROD BEARING JOURNALS 1.898 ALL MAIN BEARING 2.4488 JOURNAL DIAMETERS REAR MAIN BEARING EXCEPT NO. 5 CONNECTING ROD BEARINGS OIL SEAL AREA _____24.71 ___

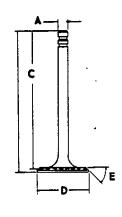
MAIN BEARINGS				VALVE TRAIN
Material		. Premiu	n aluminum	Type Individually mounted
Туре		. Precisio	n removable	overhead rocker arms, push rod actuated
Thrust Against Bear	-			Lifters
Clearance				V8-350 (LT1) Cu.In Mechanical
V8-350 Cu.In.	. 	(No. 1) .0	0080020:	V8-454 (LS6) Cu.In Mechanical
(No. 2, 3 & 4	i) .0011002	3: (No. 5) .	00170033	Push Rods
V8-454 Cu.In.				Type Hollow steel
	4) .0013003			Ends
	<u> </u>			V8-350 (Base) Hardened
	Theoretical	Effective	Projected	V8-350 (LT1) Cu.In Hardened
Dimensions	Inner Dia.	Length	Area	steel insert on rocker arm ends
V8-350 Cu.In.			·	V8-454 Cu.In Hardened steel inserts
Bearing No. 1	2.4502	.752	1.8425	Rocker Arms
Bearing No. 2-4	2.4502	.752	1.8425	Material Stamped steel
Bearing No. 5	2.4508	1.177	2.8846	Ratio
V8-454 Cu.In.				V8-350 Cu.In 1.50:1
Bearing No. 1	2.7509	.992	2.7289_	V8-454 Cu.In 1.70:1
Bearing No. 2-4	2.7505	.992	2.7285	
Bearing No. 5	2.7505	1.2525	3.4450	
				VALVE SPRINGS
				Diameter (I.D.)
				V8-3\$0 Cu.In
				V8-454 (LS5) Cu.in 1.080~1.094
				V8-454 (LS6) Cu.In 1.080-1.094
CAMSHAFT				Installed Length (lb. @ in.)
Material				Valves Closed
Drive		Sprocket &	chain; steel	V8-350 Cu.In 76-84 @ 1.70
Lobe Lift				V8-454 Cu.In.
V8-350 Cu.In. (E				Outer spring 69-81 @ 1.88
V8-350 (LT1) C				Inner spring 26-34 @ 1.78
V8-454 (LS5) Cu	.In27	14 Inlet; .21	324 Exhaust	Valves Opened
V8-454 (LS6) Ci				V8-350 Cu.In 194-206 @ 1.25
Bearings		5; steel bac	ked babbitt	V8-454 Cu.In.
				Outer spring 228-252 @ 1.38
				Inner spring 81-99 @ 1.28
				Free Length
				V8-350 Cu.In
VALVE LIFT				V8-454 Cu.In.
V8-350 Cu.ln. (Bas	-			Outer spring 2.12
V8-350 (LT1) Cu.I				Inner spring 2.06
V8-454 (LSS) Cu.L				Valve Spring Damper
V8-454 (LS6) Cu.li	a	.5197 Inle	t & Exhaust	V8-350 Cu.In Flat steel, 4 coils

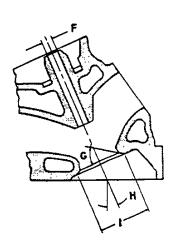
VALVES - INLET
Material Alloy steel
Coating
V8-350 Cu.In None
V8-454 Cu.In Face and head aluminized
Valve Guide Inserts (V8-454) Cast alloy iron

VALVE - EXHAUS	T	
Material		High alloy stee
Coating		
V8-350 Cu.In.		Aluminum face
V8-454 Cu.In.	Face :	and head aluminized
Valve Guide Inser	ts (TVR_454)	Cast alloy iros









A - Stem Diameter	A - Stem Diameter
V8-350 Cu.In 3.4103417	V8-350 Cu.In
V8-454 Cu.In	V8-454 Cu.In
B - Overali Length	B - Overali Length
V8-350 Cu.In 4.870-4.889	V8-350 Cu.In. (Base) 4.913-4.933
V8-454 (LS5) Cu.In 5.215-5.235	V8-350 (LT1) Cu.In 4.891-4.910
V8-454 (LS6) Cu.In 5.204-5.224	V8-454 Cu.In 5.345-5.365
C - Gage Length	C - Gage Length
V8-350 Cu.In 4.785-4.795	V8-350 Cu.In 4.781-4:791
V8-454 Cu.In 5.115-5.125	V8-454 Cu.In 5.235-5.245
D - Overall Head Diameter	D - Overall Head Diameter
V8-350 Cu.In.(Base) 1.935-1.945	V8-350 Cu.In. (base) 1.495-1.505
V8-350 (LT1) Cu.In 2.017-2.023	V8-350 (LT1) Cu.In 1.595-1.605
V8-454 (LS5) Cu.In 2.060-2.070	V8-454 (LS5) Cu.In 1.715-1.725
V8-454 (LS6) Cu.In 2.185-2.195	V8-454 (LS6) Cu.In 1.875-1.885
E - Angle of Face	F - Angle of Face
F - Guide Diameter	F - Guide Diameter
V8-350 Cu.In	V8-350 Cu.h
V8-454 Cu.In	V8-454 Ca.3n
G - Angle of Seat	G - Angle of Seat
H - Valve Angle	H - Valve Angle
V8-350 Cu.In	V8-350 Cu.ln
V8-454 Cu.In	V8-454 Cu.In
I - Valve Seat (Cutter) Diameter	I - Valve Seat (Cutter) Diameter
V8-350 Cu.In. (Base) 1.990-2.01@	V8-350 Cu.In. (Base) 1.550-1.570
V8-350 (LT1) Cu.In 2.080	V8-350 (1.71) CnJn 1.600
V8-454 (LS5) Cu.In 2.150	V8-454 (LS5) Cu.in 1.625
V8-454 (LS6) Cu.In 2.228	V8-454 (LS6)-Insert 1.942

A - Stem Diameter
V8-350 Cu.In
V8-454 Cu.In
B - Overali Length
V8-350 Cu.In. (Base) 4.913-4.933
V8-350 (LT1) Cu.In 4.891-4.910
V8-454 Cu.in 5.345-5.365
C - Gage Length
V8-350 Cu.In 4.781-4:791
V8-454 Cu.In 5.235-5.245
D - Overall Head Diameter
V8-350 Cu.In. (base) 1.495-1.505
V8-350 (LT1) Cu.In 1.595-1.605
V8-454 (LS5) Cu.In 1.715-1.725
V8-454 (LS6) Cu.In 1.875-1.885
F - Angle of Face
F - Gride Diameter
V8-350 Cu.In
V8-454 Ca.lin
G - Angle of Seat
H - Valve Angle
V8-350 Cu.ln
V8-454 Cu.In 4º
I - Valve Seat (Cutter) Diameter
V8-350 Cu.In. (Base) 1.550-1.570
V8-350 (1.71) Cn.Jn 1.600
V8-454 (LS5) Cu.in 1.625

PISTONS
M aterial
V8-350 Cu.In. (Base) Cast aluminum alloy
V8-350 (L46) Cu.In Alum. impact extruded
V8-454 (LSS) Cu.In Cast aluminum alloy
V8-454 (LS6) Cu.In Alum. impact extruded
W8-350 Cu.ln. (Base) Sump
10 000 00000
Skirt Type Slipper
Top Land Clearance
V8-350 Cu.ln. (Base)
V8-350 (LT1) Cu.In
V8-454 (LS5) Cu.In
V8-454 (LS6) Cu.In
Skirt Clearance
V8-350 Cu.In. (Base)
V8-350 (LT1) Cu.In
V8-454 (LS5) Cu.In
V8-454.(LS6) Cu.In
Compression Ring Groove Depth
V8-350 Cu.In
V8-454 (LS5) Cu.In
V8-454 (LS6) Cu.In
Oil Ring Groove Depth
V8-350 Cu.In
V8-454 (LS5) Cu.In
V8-454 (LS6) Cu.In
Pin Bore Offset
V8-350 Cu.in. (Base)
V8-350 (LT1) Cu.in On center
V8-454 (LS6) Cu.In On center
Compression Height
V8-350 Cu.In. (Base) 1.558-1.562
V8-350 (LT1) Cu.ln 1.553-1.567
V8-454 (LS5) Cu.In 1.691-1.699
V8-454 (LS6) Cu.In 1.643-1.657
40-434 (E30) Cu4ii
PISTON PINS

Length 2.990-3.010
VO 350 Calan
70-734 CB2111.
Diameter 92709273
10 10 10 10 10 10 10 10 10 10 10 10 10 1
Clearance in Piston
V8-350 Cu.In. (Base)
V8-350 (LT1) Cu.in
V8-454 Cu.In
Pin Mounting Locked in rod by shrink fit

MAT VE	TIMING	(Crank shaft	Degrees)
VALVE.	IIMING	(CIZUK VIZI	Dencesi

Excluding	Including
Ramps	Ramps
280	38°
	92 ⁰
280°	310°
78 ⁰	880
30°	52°
288°	320°
	1 - 9

	Excluding
V8-350 Cu.In. (LT1)	Ramps
Inlet Valve (opens with .020 lash)	
Opens - BTC	42040
Closes - ABC	94020'
Duration	3170
Exhaust Valve (opens with .025 lash)	
Opens - BBC	112°50
Clases - ATC	53023
Duration	346 ⁰ 13

/8-454 Cu.In. (LS5)	Excluding Ramps
Inlet Valve (Zero lash)	
Opens - BTC	56°
Closes - ABC	114°
Duration	350°
Exhaust Valve (Zero lash)	
Opens - BBC	110°
Closes - ATC	62°
Duration	3520

V8-454 Cu.ln. (LS6)	Excluding Ramps
Inlet Valve (opens with .024 lash	1)
Opens - BTC	440
Closes - ABC	920
Duration	316°
Exhaust Valve (opens with .028	lash)
Opens - BBC	1 86 ⁰
Closes - ATC	36°
Duration	302 ⁰

COMPRESSION RING MARKE	
COMPRESSION RING - UPPER	OIL CONTROL RINGS
Material	Type Multi-piece (two rails and one spacer)
Type Straight edge inside of ring	Material
Face Barrel	Rails Steel
Coating	Spacer Alloy steel
V8-350 Cu.In. (Base) Chrome plate	Width (assembled)
V8-350 (LT1) Cu.In Molybdenum inlay	V8-350 Cu.In
V8-454 Cu.In Molybdenum inlay	V8-454 Cu.In
Width	Wall Thickness
V8-350 Cu.ln. (Base)	V8-350 Cu.In
V8-350 (LT1) Cu.In	V8-454 Cu.In
V8-454 Cu.ln	Gap
Wall Thickness	V8-350 Cu.In
V8-350 Cu.ln	V8-454 Cu.ln
V8-454 Cu.In	Rail Coatings Chrome plated
Gap	
	CONNECTING RODS
COMPRESSION RINGS – LOWER	Material Drop forged steel
Material Cast alloy iron	Length (center to center)
Type Inside bevel (top of ring	V8-350 Cu.In 5.695-5.705
30 degrees to piston vertical axis for V8-350;	V8-454 Cu.In 6.130-6.140
$28^{\circ} - 52^{\circ}$ for V8-454	
Face Tapered	
Coating	CONNECTING ROD BEARINGS
V8-350 Cu.In. (Base) Wear resistant	Material Premium aluminum
V8-350 (LT1) Cu.In Chrome plate	Type Precision removable
V8-454 Cu.In Chrome plate	Clearance
Width	V8-350 Cu.In
V8-350 Cu.ln. (Base)	V8-454 Cu.ln
V8-350 (LT1) Cu.In	Theoretical I.D.
V8-454 Cu.ln	V8-350 Cu.In
Wall Thickness	V8-454 Cu.In
V8-350 Cu.ln	Effective Length
V8-454 Cu.In	V8-350 Cu.In
Gap	V8-454 Cu.in
V8-350 Cu.In. (Base)	End Play
V8-350 (LT1) Cu.In	V8-350 Cu.In
V8-454 Cu.ln	V2.454.Cu.in
10 10 10 min	V8-454 Cu.In

1971 CORVETTE SEPTEMBER 1970 POWER TRAINS-9

FUEL SYSTEM

FUEL TANK Capacity (Gal) 18 (approximately)	CARBURETORS
Location In body cavity at rear of deck area	Make & Type
Filler Location Center of rear deck area	V8-350 Cu.In. (Base) Rochester, Quadrajet
and position	V8-350 (LT1) Cu.ln Holley, 4-barrel V8-454 (LS5) Cu.ln Rochester, Quadrajet
FUEL FILTERS, DUAL	V8-454 (LS6) Cu.ln Holley, 4-barrel
In Fuel Tank Mesh strainer	The state of the s
Carburetor Inlet Paper	SAE Flange Size
V8-454 Cu.ln. (addition) In-line paper	Throttle Bore
element with vacuum return fuel line	V8-350 Cu.In. (Base)
,	Primary
	Secondary 2.25
FUEL PUMP	V8-350 (LT1) Cu.In.
Туре	Primary & Secondary 1.69
V8-350 (Base) & 454 (LSt) Deep cover	V8-454 (LS5) Cu.In.
with vapor return lines.	Primary
V8-350 (LT1) & 454 (LS6) Diaphragm	Secondary 2.25
Drive Camshaft eccentric	V8-454 (LS6) Cu.In.
Location Lower right front of engine	Primary & Secondary 1.69
	Venturi
Pressure Range (shut off pressure at 1800 RPM)	V8-350 Cu.In. (Base)
All Engines 7.50-9.00 PSI at pump outlet	Primary 1.04
	Secondary
	V8-350 (LT1) Cu.In.
AIR CLEANER	Primary
Туре	Secondary 1.44
V8-350 (Base) & 454 (LS5) Dual snorkel	V8-454 (LS5) Cu.In.
chrome plated.	Primary 1.04
V8-350 (LT1) & 454 (LS6) Full circle	Secondary
intake, chrome plated.	V8-454 (LS6) Cu.In.
Filter Element Oil-wetted paper	Primary
	Secondary 2.25
	Secondary Throttle Actuation By linkage
CHOVE	•
CHOKE	approximately when primary valves are opened
Type Automatic	approximately when primary valves are opened half between closed and open
	half between closed and open
Type Automatic	half between closed and open
Type Automatic EXHAUST AND VEN MUFFLERS	half between closed and open TILATION SYSTEM TAIL PIPES
Type Automatic EXHAUST AND VEN	half between closed and open
Type Automatic EXHAUST AND VEN MUFFLERS Type Dual, reverse flow	half between closed and open TILATION SYSTEM TAIL PIPES Type Two inch tube with rectangular
Type	half between closed and open TILATION SYSTEM TAIL PIPES Type Two inch tube with rectangular
Type	half between closed and open TILATION SYSTEM TAIL PIPES Type Two inch tube with rectangular
Type	half between closed and open TILATION SYSTEM TAIL PIPES Type Two inch tube with rectangular
Type	half between closed and open TILATION SYSTEM TAIL PIPES Type Two inch tube with rectangular
Type	half between closed and open TILATION SYSTEM TAIL PIPES Type Two inch tube with rectangular
Type	TAIL PIPES Type Two inch tube with rectangular chrome plated extensions. EXHAUST EMISSION CONTROLS
Type	TAIL PIPES Type Two inch tube with rectangular chrome plated extensions. EXHAUST EMISSION CONTROLS Positive Crankcase Ventilation
EXHAUST AND VEN MUFFLERS Type Dual, reverse flow Construction Heads and body joined by rolled lock seam construction Shell Right Hand	TAIL PIPES Type
EXHAUST AND VEN MUFFLERS Type Dual, reverse flow Construction Heads and body joined by rolled lock seam construction Shell Right Hand	TAIL PIPES Type
EXHAUST AND VEN MUFFLERS Type Dual, reverse flow Construction Heads and body joined by rolled lock seam construction Shell Right Hand	TAIL PIPES Type
EXHAUST AND VEN MUFFLERS Type Dual, reverse flow Construction Heads and body joined by rolled lock seam construction Shell Right Hand	TAIL PIPES Type
EXHAUST AND VEN MUFFLERS Type Dual, reverse flow Construction Heads and body joined by rolled lock seam construction Shell Right Hand	TAIL PIPES Type Two inch tube with rectangular chrome plated extensions. EXHAUST EMISSION CONTROLS Positive Crankcase Ventilation Utilizes manifold vacuum to draw off engine crankcase vapors through a metered PCV valve and ultimately to the intake system for engine reburn Controlled Combustion System (except RPO LT1
EXHAUST AND VEN MUFFLERS Type Dual, reverse flow Construction Heads and body joined by rolled lock seam construction Shell Right Hand	TAIL PIPES Type Two inch tube with rectangular chrome plated extensions. EXHAUST EMISSION CONTROLS Positive Crankcase Ventilation
EXHAUST AND VEN MUFFLERS Type Dual, reverse flow Construction Heads and body joined by rolled lock seam construction Shell Right Hand	TAIL PIPES Type
EXHAUST AND VEN MUFFLERS Type Dual, reverse flow Construction Heads and body joined by rolled lock seam construction Shell Right Hand	TAIL PIPES Type Two inch tube with rectangular chrome plated extensions. EXHAUST EMISSION CONTROLS Positive Crankcase Ventilation
EXHAUST AND VEN MUFFLERS Type Dual, reverse flow Construction Heads and body joined by rolled lock seam construction Shell Right Hand	TAIL PIPES Type Two inch tube with rectangular chrome plated extensions. EXHAUST EMISSION CONTROLS Positive Crankcase Ventilation
EXHAUST AND VEN MUFFLERS Type Dual, reverse flow Construction Heads and body joined by rolled lock seam construction Shell Right Hand	TAIL PIPES Type Two inch tube with rectangular chrome plated extensions. EXHAUST EMISSION CONTROLS Positive Crankcase Ventilation
EXHAUST AND VEN MUFFLERS Type Dual, reverse flow Construction Heads and body joined by rolled lock seam construction Shell Right Hand	TAIL PIPES Type Two inch tube with rectangular chrome plated extensions. EXHAUST EMISSION CONTROLS Positive Crankcase Ventilation
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EXHAUST AND VEN MUFFLERS Type	TAIL PIPES Type
EXHAUST AND VEN MUFFLERS Type	TAIL PIPES Type
EXHAUST AND VEN MUFFLERS Type	TAIL PIPES Type Two inch tube with rectangular chrome plated extensions. EXHAUST EMISSION CONTROLS Positive Crankcase Ventilation

LUBRICATION SYSTEM

GENERAL	OIL PAN CAPACITY (Quarts)
Type Controlled full pressure	Refill
Main Bearings Pressure	V8-350 Cu.In
Connecting Rods Pressure	V8-454 Cu.In 5.0
Piston Pins Splash	Refill with Filter Change
Cylinder Walls Pressure, jet cross sprayed	V8-350 Cu.In
Camshaft Bearings Pressure	V8-454 Cu.In
Valve Lifters Pressure	
Rocker Arms Pressure	
Timing Gears Centrifugally oiled from front	•
camshaft bearing	OIL FILTER
Oil Pressure Sending Unit Electric	Type Full flow, throwaway canister
Oil Filler	Location Left rear underside of engine
Cap Positive seal	Capacity One pint
Location	By-pass Valve Opens between 9 to 11 PSI
V8-350 Cu.In Top rear of left rocker cover	drop in pressure
V8-454 Cu.In Top center of right rocker cover	
OIL PUMP	
Type Gear	LUBRICANT GRADES AND TEMPERATURES
Normal Oil Pressure	20°F and Above 20W, 10W-30, 10W-40, 20W-40
V8-350 Cu.In 40 PSI @ 2000 RPM	0°F to 60°F 10W, 5W-30, 10W-30, 10W-40
V8-454 Cu.ln 40 PSI @ 2000 RPM	Below 20 ^o F 5W, 5W-30, 5W-30
Intake Type Fixed	
Capacity (GPM @ Eng. RPM)	
V8-350 Cu.In 4.3 @ 2000	OIL PAN
V8-454 Cu.In 6 @ 2000	Type of Drain Plug Hex head
Regulator Valve Opens between 40-45 lbs	Location Lower rear face of oil pan sump
	Size Hex Head
OIL DIP STICK - LOCATION	Thread 1/2-20 UNF 2A
V8-350 Cu.In Left side, rear of engine block	Length
V8-454 Cu.In Right side, center, direct to oil pan	Diameter

COOLING SYSTEM

GENERAL	THERMOSTAT
Type Liquid, pressurized	Type Peilet
V8-350 Cu.in Internal by-pass	Begins to Open at
V8-454 Cu.In External by-pass	V8-350 (Base) & 454 (LS5) 192°-198°
Capacity (with Heater)	V8-350 (LT1) & 454 (LS6) 177°-183°
V8-350 Cu.In. (Base) 15 Qts.	Fully opened at
V8-350 (LT1) Cu.In 18 Qts.	V8-350 (Base) & 454 (LS5)
V8-454 (LS5) Cu.ln	V8-350 (LT1) & 454 (LS6) 202°
V8-454 (LS6) Cu.In 20 Qts.	Thermostat By-Pass Hose (V8-454)
RADIATOR	
Type	RADIATOR HOSE
V8-350 Cu.In. (Base) Aluminum, cross-flow	Outlet, Lower (Radiator to Water Pump)
V8-350 (LT1) & 454 Copper-brass, cross-flow	V8-350 Cu.In
Core Constant and Thickness	V8-454 Cu.In 1.88 I.D.
Distance between Fins	Inlet, Upper (Thermostat Housing to Radiator)
V8-350 Cu.ln. (Base)	V8-350 Cu.In
V8-350 (LT1) Cu.In	V8-454 Cu.in
V8-454 Cu.In	•
Distance between Tubes	
Thickness of Core	BELTS; CRANKSHAFT, FAN AND GENERATOR
V8-350 Cu.In. (Base) 2.88 Syn.; 2.70 auto.	Number Used Two
V8-350 (LT1) Cu.In	Angle of "V"
Frontal Area (Sq.In.)	Pitch Line
V8-350 Cu.In. (Base) 315 Syn.; 441 auto.	Fan, Generator and Water Pump Belt
V8-350 (LT1) Cu.ln	V8-350 Cu.In. (Base) 54.25
V8-454 Cu.In	V8-350 (LT1) Cu.In 52.75
40-134 Cu.m.	V8-454 Cu.in 53.75
•	Fan and Water Pump Belt
SURGE TANK (350 Cu.In. Base engine only)	V8-350 Cu.In. (Base)
Location Right side engine compartment	V8-350 (LT1) Cu.In 32.46
connected by hosing to top of radiator	V8-454 Cu.ln
Capacity 2.3 Qts.	Width
Fill Requirements Half full when weather is cold	
•	W. COD DVAD
	WATER PUMP Type Centrifugal
	Capacity (GPM @ Engine RPM) V8-350 Cu.In
RADIATOR CAP RELIEF VALVE	V8-454 Cu.In
Opens at Approximately 15 PSI	Bearing Permanently lubricated double row ball
	Drive Fan belt
	Ratio (Pump to Engine RPM)
FAN	
● Number of Blades 5, staggered	
•Diameter	DRAIN LOCATIONS AND TYPE
Fan Pulley Pitch Diameter 7.00	Radiator Left hand, rear lower face
Fan Cutout Thermomodulated fluid coupling	Engine Block Plug; right and left center

ELECTRICAL SYSTEM

SUPPLY SYSTEM BATTERY Type Sealed side terminal Voltage 12 Cranking Power @ 0° F V8-350 Cu.In 3250 watts V8-454 Cu.In 3750 watts Total number of plates V8-350 Cu.In 78 V8-454 Cu.In 90 Capacity (SAE) @ 20 hr. rate V8-350 Cu.In 62 amp. hr. V8-454 Cu.In 80 amp. hr. Number of Cells 6 Terminal Grounded Negative Location In passenger compartment behind driver	STARTING SYSTEM STARTING MOTOR Rotation (Drive End View) Clock wise Test Conditions . Engine at operating temperature No Load Test Amps
GENERATOR Type Diode rectified with integral regulator Rating	COIL Type 12 Volt Amperes Drawn 4.0 Engine Stopped 4.0 Engine Idling 1.8 SPARK PLUGS Make & Type V8-350 Cu.In. (Base) ACR44TS V8-350 Cu.In. (RPO LT1) ACR43TS V8-454 Cu.In. (RPO LS5) ACR43TS ●V8-454 Cu.In. (RPO LS6) ACR44XL Thread Size (mm) 14 Gap .033038 Torque 25 lb. ft.
REGULATOR Type Micro-circuit unit, integral with generator Voltage Regulator Voltage	CABLE Linen core impregnated with electrical conducting material and insulation of rubber with neoprene jacket

	V8-350	V8-454	V8-350	V8-	454	
	270 HP	365 HP	330 HP	425	HP	
DISTRIBUTORS	Manual &	Automatic	Manual	Manual	Automatic	
	Transn	nission	Transmission	Transmission	Transmission	
Model	1112050	1112051	1112038	1112076	1112053	
Туре	Single l	oreaker		-		
Cam Angle	29-31	28-30		Transistorized		
Breaker Gap	.019	(new)	i	Magnetic		
Breaker Arm Tension	19-23 oz.	28-32 oz.		Pulse		
Centrifugal Advance Begins (RPM)	1335	1145	1330	1300	1310	
Max Degrees @ RPM	18@4200	22@3000	24 @ 5000	31@6000	28@6000	
Vacuum Advance Begins (In. Hg.)	8.00	8.00	8.00	7.00		
Max Degrees @ In. Hg.	15 @ 15.5	20@17	15@15.5	12@12		
Timing (Initial Design Setting) Crankshaft Degrees @ RPM (with vacuum spark line disconnected)	8 BTC @ 600 Manual 550 Automatic	8 BTC @ 600 Manual & Automatic	8 BTC @ 700	8 BTC @ 700	12 BTC @ 700	
Timing Mark Location	Torsional Damper					

CLUTCHES AND TRANSMISSIONS

• CLUTCHES

			V8-350 Cu.ln. V8-2		454 Cu.In.	
Engine	Type Availabilit	,	Standard	RPO LT1	RPO LS5	RPO LS6
C)		'	<u> </u>	4-9	Speed	
lutch for				Single dry disc centrifug	y disc centrifugal Dual dry disc centrif	
Гуре	Eff. plate l			2450-2750		1600-1800
Clutch	Press. plate				ular iron	
over &	Clutch spr			Circular plate diaphr	ragm, bent finger design	п
ressure	Clutch spr			Heat treate	ed spring steel	
late		ing mad.	Sing	le disc with two friction	surfaces	Dual disc, alum. back facin
	Type Cushions			Flat spring steel b	etween friction rings	
	Dampers			10 coil springs (5 s	sets of two) each plate	
Driven	Dampers	OD		11.00		10.00
		ID	6.50		6.00	
plate Friction rings	-	Total area		123.70		201.06
	rings	sq. in.				
	Material			ype asbestos		
	Flywheel	Material		Nodular iron		
	Material	Material		Heat trea	ated HR steel	
Flywheel Ring gear	No. of teeth			168		
	PD			14.00		
	15	Attachment			rink fit	
	Palessa Type				e row ball	
Bearings Pilot	Lubrication		None, prepacked			
		Type			ze bushing	<u> </u>
	Pilot	Pilot Lubrication		None, sintered and oil impregnated		
	Clutch fork		Drop forged steel, pivot mounted on ball			
Controls	Pedal mo	unting	Pendant, from brace on dash			
	Lubricati	on	Crossover shaft			
Clutch be	ousing mate	rial		Alum	inum alloy	

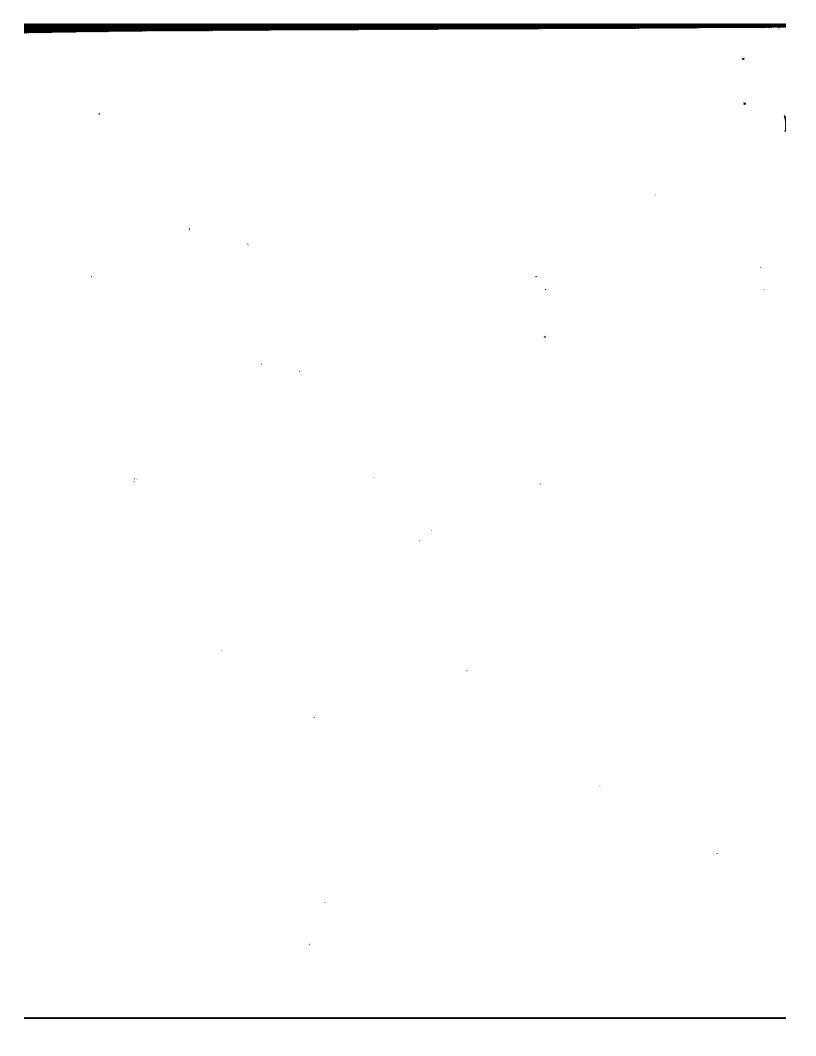
4-SPEED TRANSMISSIONS

Tues		4-Speed RPO M20		4-Speed RPC	4:Speed RPO M21 & M22	
				V8-454 Cu.In.	V8-350 Cu.In.	V8-454 Cu.In.
Engine		ity		LS5	LT1	LS5 & LS6
		ity		Alun	ninum	
Case material				Rei	mote	
Gеат .				Le	ver	
Shift				Floor, mounte	d between seats	
		<u></u>			lical	
					el, hardened	
Material Synchronization Constant mesh gear Sliding gears		All forward gears				
	nization	All forward gears				
	Sliding	ears		Re	verse	
Gears		First	2.	52		.20
		Second	1.	.88		.64
	Ratios		1.	.46		.27
	ansmission Type Type V8-350 Cu.In. Availability Base & LT1 See material. Type Control Location Type Material Synchronization Constant mesh gear Sliding gears First Second Ratios Third Fourth Reverse Local Control Location Type Material Synchronization Constant mesh gear Sliding gears First Second 1. Reverse 2. Second 1. Fourth Reverse 2. Material	.00		.00		
First Second Ratios Third Fourth		2	59		.26	
	Marking Military Specification MII al +2105-B					
Lubricant Capacity (pts) 3						
	Material		Aluminum			5.14
Extension	Oil Seal		Steel encased double seal of spring loaded rubber or felt			

TURBO HYDRA-MATIC

	Туре		Automatic hydraulic torque converter with compound planetary
1	1700		gear system - three forward speeds and reverse.
	Selector	Location	Floor mounted
General		Operation	Actuates controls by a hydraulic system from pressurized gear type pump
Data	lever	Quadrant pattern	P-R-N-3-2-1
Data	Parking	Туре	
	Lock	Operation	Locking pawl
	Method of cooling		Applied by selector lever through manual linkage
	Method of	cooning	Water
	Flywheel a		Steel stamping with welded on ring gear
	Oil pressure	pump	Supplies hydraulic pressure from an engine driven gear type pump
	Туре		Steel spool
	1	Manual	Establishes range of transmission operation
	Valves	Pressure Reg.	Controls main line pressure
	1	Shift (1-2)	Controls oil pressure for transmission shift from 1-2 or 2-1
		Shift (2-3)	Controls oil pressure for transmission shift from 2-3 or 3-2
Hydraulic	34-4-1-4		Regulates line pressure with modulator oil pressure
System	Modulator		that varies with torque to transmission
			To obtain a small torque to transmission
	Accumulate	or	To obtain greater flexibility in attaining desired
		13	shift curve for various engine requirements
	Pressure		10
		2	150
	@ Idle (2)	1	150
		Reverse	107.5
	Pump (Driv	e member)	Multivane type, sheet metal blade spot welded to steel
Converter	Tuny (Dily	e memoer)	pump housing that is an integral part of the converter housing
	Turbine (Driven member)		Steel axial flow blades assembled between inner & outer steel shells
Assembly	Stator assembly		Aluminum multipana tura bladas manadad
	Stall ratio		Aluminum multivane type blades mounted on a one way (overrunning) roller clutch
	Stall speed	(DDM)	2.10
			2110
	Diameter (nominal)		12,20
	Reaction carrier assembly		4 steep pinion gears
	Output carrier assembly		4 steel pinion gears
.	Front band		Circular steel with organic lining
Planetary	Rear band		Double wrap circular steel
Gear		D (2.48 1st)	2.48:1 - 1.48:1 - 1.00:1
Set	Range	L2 (1.48 2nd)	2.48:1 - 1.48:1
	Kange	L1 (1.00 3rd)	2.48:1
	1	R (2.08 Reverse)	2.48.1
	Servo Unit		
Case	Material		Piston with release spring and inner cushion spring
	Туре		Aluminum
	Туре	There exert	Three, multiple disk
Clutches	Material	Drive plates	Steel with bonded organic facings
		Driven plates	Flat steel
	Forward Clu		5 each drive & driven plates
	Direct clutch		5 each drive & driven plates
	Intermediate clutch		3 each drive & driven plates
	Release spring		Radial row steel coil
Forque Multiplication	Drive (maximum)		
	Low 2		5.21:1 to 1.00
	Low 1		5.21:1 to 1.48
			5.21:1 to 2.48
	Reverse		4.37:1 to 2.08
~	Туре		Cross-axis centrifugal
Governor	Operation		Regulates a pressure proportional to car speed which acts
			upon the (1-2) (2-3) shift and modulator valves
	Туре		A suffix A
Lubricant	Capacity	Dry	22
	(pints)	Refill	
			8

^{(1) 450} RPM input @ 25 in. Hg. vacuum



engines: number

LS7 LS7 LS7 LS7 LS7 PF2 PF2 PF2 PF2 PF2 PF2 PF2 PF2 PF2 PF2

Power Assists

description	RPO number
Brakes, power	J50
Steering, power: (power brakes recommended)	N40
Windows, power	A31

description

number

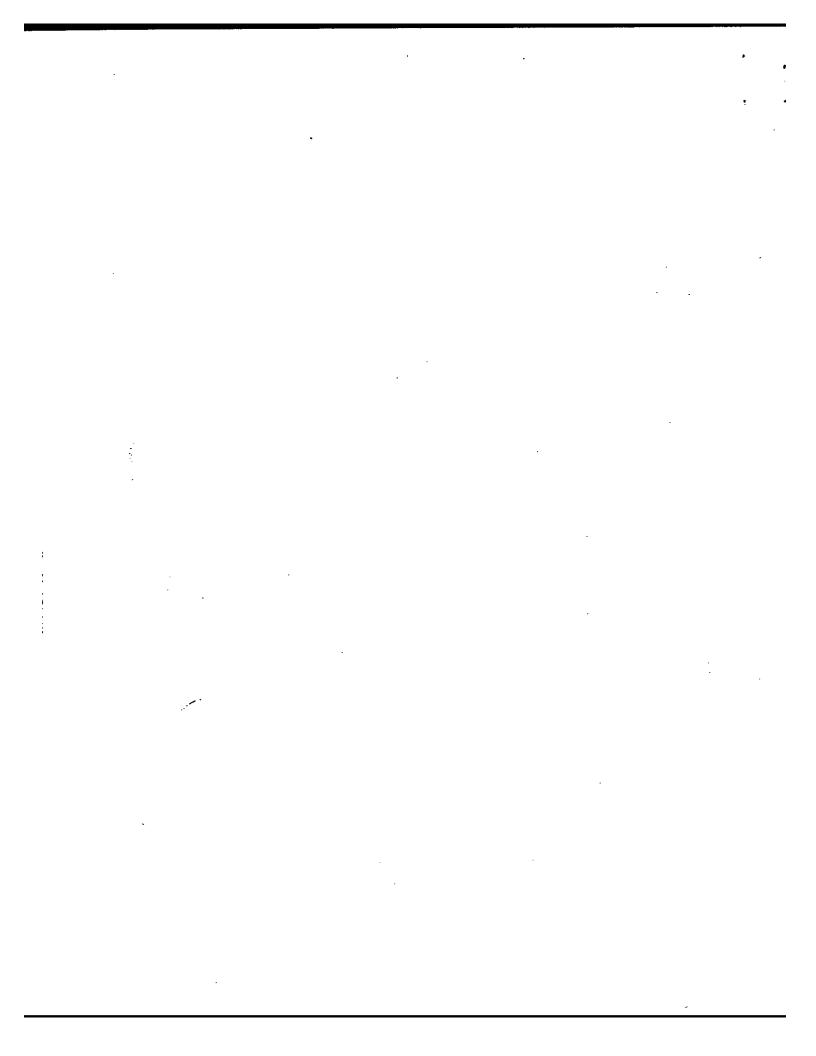
Factory Installed Regular Production Tubeless Tires

description

RPO number

(5) F70 x 15 special nylon white strips	(5) F70 x 15 special nylon white lettered blackwall	Replaces (5) F70 x 15 special nylon blackwall
PT7	PU9	

1971 Corvette options





1971 AMA SPECIFICATIONS FORM . . . Passenger Car

MANUFACTURER	ÇAR NAME	
Chevrolet Motor Division General Motors Corporation	COR	VETTE
MAILING ADDRESS	MODEL YEAR	9/70
_	1971	REVISED (.)
•		12/70

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. Questions concerning these specifications should be directed to the manufacturer whose address is shown above. This specification form was developed by automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

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NOTES

^{1.} The General Specifications herein are those in effect at date of compilation and are subject to change without notice by the

^{2.} UNLESS OTHERWISE INDICATED:

a. Specifications apply to standard models without aptional equipment. Significant deviations are noted.

b. Nominal design dimensions are used throughout these specifications.

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MAKE OF CAR_	CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (6)	
BODY MODEL	Body type, number of passengers, and style names; use manufacturer's code for series & body style.	

	V-8
CORVETTE	Engine
2-Door Sport Coupe, 2-Passenger	19437
2-Door Convertible, 2-Passenger	19467

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KE OF CAR

CORVETTE

MODEL YEAR

1971

DATE ISSUED

9/70 REVISE

?[

CAR AND BODY DIMENSIONS

See Pages 27; 28 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:
4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

ODEL	SAE Ref. No.	Sport Coupe	Convertible
ADTH 501	2.5		
Track - Front :	W101		88.7
Track - Rear	, W102	5	59.4
Maximum overall car width	W103	6	9.0
Body width at No. 2 pillar	W117	6	6.2
:NGTH			
Body "O" to front of dash	L 30		1.7
Wheelbase	L101		98.0
Overall car length	L103	18	32.5
Overhang - front	L104	4	10.6
Overhang - rear	L105	4	13.9
Body upper structure length	L123		55, 6
Body "O" line to € of rear whee	L 127		72.0
Body "O" line to w. s cowl point	· L130	1	3. 1
EIGHT			
Passenger Distribution (front & rec	ar)		2 - 0
Trunk/Cargo load (lbs.)			
Overall height	H101	47.8	47.9
Cowl height	H114		26. 6
Jeck height	H138		
Rocker To ground	H112		6.7
ront i From front wheel &	7 7 1 1 2	2	21.0
ocker To ground			6.7
From rear wheel	— H1111 ——		16.6
/indshield slope angle	H122	5	57.0
OUND CLEARANCE			
sumper to ground - front	H102]	19.2
umper to ground — rear	H104	13.2	13.0
ngle of approach	H106		22.0
ngle of departure	H107		21.0
amp breakover angle	H147		22,0
in, running clearance (Specify)	H156	4.8 (a)	4.5 (a)

(a) Exhaust system to ground.

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MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (6) CORVETTE MAKE OF CAR CAR AND BODY DIMENSIONS See Pages 27, 28 for SAE Dimension Definitions (All dimensions in inches unless otherwise indicated) SAE Convertible Sport Coupe MODEL Ref. No. FRONT COMPARTMENT 38.3 37.2 Effective head 'room H6 1 43.0 L34 Max, eff. leg room - accelerator 6.8 H Point to Heel point L17 H Point travel ₩ 3 46.9Shoulder room Hip room W 5 48.8 43.6 H50 Upper body opening to ground REAR COMPARTMENT L50 H Point couple distance H63 Effective head room Min, effective leg room L51 H Point to Heel point H31 Min. knee room L48 L 3 Rear Compartment room Shoulder room W 4 Hip room H51 Upper body opening to ground LUGGAGE COMPARTMENT Usable luggage capacity H195 Liftover height In well under body at rear Position of spare tire storage Method of holding lid open STATION WAGON - THIRD SEAT Shoulder Room W85 W86 Hip room L86 Effective leg room H86 Effective head room Seat facing direction STATION WAGON - CARGO SPACE Cargo length at floor - front seat L204 Cargo length at belt - front seat W201 Cargo width - Wheelhouse Opening width at belt W204 H201 Maximum corgo height H202 Rear opening height V2

Cargo volume index (cu. fr.) <u>W4 x L204 x H2D1</u> 1728

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KE OF CAR CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (+)

POWER TEAMS

(Indicate whether standard or optional)

(Gross bhp (brake horsepower) and gross torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.)

(Net bhp (brake horsepower) and net torque corrected to 85°F and 29,00 in. Hg atmospheric pressure.)

<u> </u>	. • 11		<u> </u>	ENGINE					AXLE RATIO 本本 (Std. first)
MODEL AILABILITY	Displ.		Compr.	BHP @ RPM Torque @ RPM		RPM	TRANSMISSION	"A I B" C" "D"	
	cu. in.	Carb	Ratio	Gross	Net	Gross	Net		
And the second s	Turbo Fire 350V8	One;	8. 5:1	270 @	210 @	360 @	300 @	4-Speed Base Manual and (2.52:1 low) A/C	3. 36 3. 08
	(base)	4-001		4800	4400	3200	2800	3-Speed Base Auto- and matic* A/C	3.08 3.36
	Turbo Fire	One	9. 0:1	330	275	360	300	4-Speed Bas Manual only (2.52:1 low)	e 3.55 3 36 3 70
	350V8 (LT1)			@ 5600	@ 5600	@ 4000	& 4000	4-Speed Base Manual* only (2.20:1 low)	1 3, 10 3, 33 3, 4, 4,
				N.				H. D. 4-Spd # Base Manual onl (2. 20:1 low)	1 9 3D 3 DA 3.33 Tall
5-	Turbo	One;	0.5.1	. 365	285	465	390	4-Speed Bas Manual* A/C (2.52:1 low)	
	454V8 (LS5)*	4-bbl	8. 5:1	@ 4800	@ 4000	@ 3200	@ 3200	4-Speed Bas Manual* only (2. 20:1 low)	1 4 46 4 18 3 33 3 10
								3-Speed Bas Automatic A/C	e 3.08 2.73 3.36 3.08
	Turbo		-					4-Spd. Manl Bas (2, 20:1 low) onl	у
;	Jet ·	One;	in n.i	425 @ 5600	325 @ 5600	475 @ 4000	390 @ 3600	H. D. 4-Spd. Bas Manual only (2, 20:1 low)	
·		-						3-Speed Bas	e 7 3.08 2.73 3.36
-	* - O	ptiona Positr	action	stand	ard w	ith all	axle a	applications.	

A - Standard.

B - Economy option.

C - Performance option.

D - Special option.

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MAKE OF CAR	CORVETTE	DEL YEAR 1971	DATE ISSUED 9	/70 REVISED (+)			
	TURBO-	FIRE 350	TURBO	D-JET 454			
MODEL	V8 - 270 HP	4	V8 - 365 HP	V8 - 425 HP			
ENGINE - GENERAL							
Type, no. cyls., valve ar	т	90° V-8	OHV				
Bare and strake (nomina)	l .	x 3.48		1 x 4.00			
Piston displacement, cu.	in. 3	50		454			
Bore spacing (& to &)		.40		.84			
No. system L. Bonk		1-3-					
(front to rear) R. Bank		2-4-6-8					
Firing order		1-8-4-3-6-5-7-2					
Compres. ratio (nominal)	8.5:1	9.00:1	8.5:1	9.00:1			
Cylinder Head Combustic Chamber Volume (cc)		90.82	127.60	119.09			
Cylinder Head Material		Cast alloy iron		Cast aluminum			
Cylinder Block Material		Cast all	oy iron				
Cyl. Sleeve-Wet,dry,none		No	one				
Number of Front		T	wo				
mtg. points Rear		-	ne				
Engine installation angle	•	3 °					
Taxable Dio ² xNo. Cy	1.	51.2 57.8					
Recommended fuel regular - premium		Regu	ılar				

ENGINE - PISTONS

Material		Castalum.alloy	(a)	Cast alum. alloy	(a)
Description a	nd finish	Sump head slipper skirt	Flat head notch- ed,slipper skirt	Flat head valve cutout	Domed head notched
Weight (pistor		21.50	25.68	25.92	23.28
weight (prator	Top land	.02350325	.03050395	.03500410	.03200380
Clearance	Top	.00070017(Ъ)		.00240034(c)	.00400050(
(limits)	Skirt Bottom			·	
	No. 1 ring	3,546	-3.556	3.770-3.780	3.765-3.77
Ring groove	No. 2 ring		-3.556	3.770-3.780	3.765-3.77
diameter	No. 3 ring		-3.592	3.803-3.813	3.816-3.820
	No. 4 ring			-	

- (a) Aluminum impact extruded.
- (b) Measured 1.878 from top of piston.
- (c) Measured 1.69 from top of piston.
- (d) Measured 1.65 from top of piston.

.KE C	OF CAR CORVE	TTEMODEL Y	EAR 1 971 DA	TE ISSUED 9/70	REVISED (+)	
			350	v8 -	454	
: ODEL		V8 - 270 HP	V8 - 330 HP	V8 - 365 HP	V8 - 425 HP	
	- RINGS				* 35 ± 1	
	No. 1, oil or comp.		Comp	ression		
nction	No. 2, oil or comp.			ression		
pto ntomi)	No. 3, oil or comp.			<u> </u>		
	No.,4, oil or comp.			lone		
	Description - Upper	Cast all	loy iron; barrel	face (a)		
mpres-	material, coating,	Cast al	loy iron; inside	bevel; tapered fa	ce.(b)	
	Width -	(c)	(d)	Upper & lower	.07700775	
	- Gop	(e)	(f)	.010	020	
	Description :			d l spacer expar		
	material, coating,	Multi-;	piece (2 rails an	id i spacei expai	inless steel	
٠., •	etc.	Rails-steel,		D; Expander-sta	iniess steer	
	Width			(assembled)		
	Gop	.015055 .010030				
panders			In oil ring	assembly		
GINE -	- PISTON PINS					
teri,al			<u>Chromiu</u>	m steel		
ngth			-3.010	2.930		
meter		.9270	<u>927</u> 3	. 9895.	. 9898	
	Locked in rod, in piston, floating, etc.		Locked			
pe	Bush- In rad ar piston		. Nor	ne		
	ing Material			± ++ ±		
earan ce	In piston			.0003000040	.0004500055	
ection & amount offset in piston		Major thrust side.		060 On center		
GINE -	- CONNECTING RODS			•		
terial			Drop forg	ed steel	· ·	
ight (oz		20.	80	27.	84	
	enter to center)	5.695-		6.130-	6.140	
<u> </u>	Material & Type	`	Premium a	aluminum		
aring	Overall length	. 79)7	84	17	
. 011110						
·ormg	Clearance (limits)	.0013-	.0035	.0009-	.0025	

- (a) Chrome plate on V8-350 (270 HP) molybdenum inlay all other engines.
- (b) Wear resistant coating V8-350 (270 HP) chrome plate all other engines.
- (c) Upper .0775-.0780; Lower .0770-.0775.
- (d) Upper .0770-.0775; Lower .0775-.0780.
- (e) Upper .010-.020; Lower .013-.025.
- (f) Upper .010-.020; Lower .013-.028.

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Page

MAKE	OF CAR	CORV	ETTEMODE	L YEAR 1971 D	ATE ISSUED 9/70	REVISED_(+)		
			v8_	350	v8 -	454		
MODEL	L		V8 - 270 HP	V8 - 330 HP	V8 - 365 HP	V8 - 425 HP		
ENGINE	- CRANK	SHAFT	Cast					
Material			nodular iron		Forged steel			
Vibration damper type				Rubber mou	nted inertia			
End thrus	t taken by	bearing (No.)			5			
Crankshaft end play			. 002	006	.006-	.010		
	Material & type		Premium aluminum					
	Clearanc	e		(a)	(b)			
		No. 1	2.4502 x .752	$2.4502 \times .752$	2.7509	x . 992		
	Journal	No. 2	$2.4502 \times .752$		2.7505	× 992		
Moin bearing	dia, and	No. 3	$2.4502 \times .752$		2.7505			
Dearing	bearing	No. 4	$2.4502 \times .752$	$2.4502 \times .752$	2.7505	x · 992		
	overall	No. 5	2.4508 x 1.177	72.4508×1.177	2.7505	× 1.2525		
length Na. 6		Na. 6		No	ne			
	1	No. 7	None					
	Dir. & on	s. cyl. offset		No	ne			
	No.bolts	main brg. cap	10 & 5	16 & 5	10 & 5	20 & 5		
Crankpin journal diameter		2.099-2.100		2.199	-2.200			

ENGINE – CAMSHAFT

Location	orion In block above crankshaft				
Material			Cast alloy iron		
	Material		Steel backed babbitt		
Bearings	Number		5		
	Gear or chain		Chain		
	Cronk shi sprocket	oft gear or material	Steel sprocket		
Type of Drive	Camshaft gear or		Nylon teeth with aluminum hub		
		No. of links	46	5.0	
	Timing	Width	.740	.740	
	10	Pitch	. 500	. 500	

- (a) No. 1 .0008-.0020
 - No. 2, 3 & 4 .0011-.0023
 - No. 5 .0017-.0033
- (b) No. 1 .0007-.0019
 - No. 2, 3 & 4 .0013-.0025
 - No. 5 .0019-.0035

		CORVET	V8 -	EAR 1971 DA	170	454		
	,.		V8 - 270 HP	V8 - 330 HP	V8 - 365 HP	V8 - 425 HP		
ODEL			70 - 270 HF	10 - 330 HP	V6 - 303 HF	V0 - 423 HF		
NGINE	- AVTA	e system			• •			
ydraulic	lifters (Std., opt., NA) .	Standard	NA	Standard	NA		
	otor, type			No	one			
ntake, e:			1 50	0.1	7	20.1		
ockes ra	710		1.50	<u>]:1</u>	1.1	70:1		
perating ppet earance	'''	toke .	Zero	.020	Zero	. 024		
ndicate i (cold)	hotE	choust :	Zero	. 025	Zero	.028		
	Ī	Opens (BTC)	28°	42°40¹	-56°	44°		
iming -	Intake	Closes ('ABC)	72°	94°20'	114°	92°		
ased on p of		Duration - deg.	280°	317°	350°	316°		
umb −.	1 5	Opens (-BBC)	78°	112°50¹	· 110°	86°		
oints)	Exhaus	·	30°	53°23' -	62°	36°		
	()	Duration - deg.	288°	346°13'	352°	302°		
	Valve opening overlap.		58*	96 "3"	118°	80°		
	Moterial Overall		Alloy		Alloy steel; alum 5.215-5.235	1 5.204-5.22		
		- i	4.870-	T				
-	Actual overall head dia.		1.935-1.945	2.017-2.023	2.060-2.070	2.185-2.19		
		f seat & face			45° (face)			
	Stem die	ert material	2410	2222				
,		guide cleorance	.3410-		37153722			
-		ero lash)	.3900	.4586	.4614	5197		
toke		Valve closed	-		 			
	Outer spring	(lb in.)	76-84 @	1.70	69-81 @	1.88		
	press. & length	Valve apen (lb. in.)	194-206	@ 1.25	228-252 @ 1.38			
	Inner spring	Valve closed (lbin.)	Spring da	amper	26-34 -	1.78		
	press. & length	Valve open . (ib in.)	Spring da	amper	81-99 - 1.28			
	Materia		High alloy steel, aluminized face (a)					
	Overall		4.913-4.933	4.891-4.910	5.345-5	. 365		
		everall head dia.	1.495-1.505	1.595-1.605	1.715-1.725	1.875-1.8		
		f seat & face	46° (seat); 45° (face)					
		ert material			оле			
	Stem die		. 3410-		.37133720			
		guide clearance	4100	.0010-	0027			
chaust		ero losh)	.4100	.4850	.4800 _	5197		
	Outer spring	Valve closed (lb. in.)	76-84 @	1.70	69-81 @ 1.88			
	press. 8 length	(lb. in.)	194-206	@ 1.25	228-252	@ 1.38		
	Inner spring	Valve closed (lb. in.)	Spring d	amper	. 26-34 -	1.78		
	press. & length	Valve open (lb. in.)	Spring d	amper	81-99 -	1.28		

⁽a) Head also aluminized on V8 - 454

MAKE	OF CAR_	CORVETTE	MODEL YEAR	1971DAT	SSUED 9/70	REVISED (e)		
_			V8 - 350	0	V8 - 4	54		
MODEL	•		270 HP	330 HP	365 HP	425 HF		
•		ION SYSTEM	<u> </u>					
	Main bearin	as		Pres	sure			
Type of	Connecting			Pres	sure	·		
lubrica-	Piston pins			Spla	sh			
tion	Comshaft b	eorings		Pres	sure			
(splash,	Tappets			Pres	sure			
pressure, nozzle)	Timing geo	r or ch o in	Centrifu	gally oiled fro	om camshaft bea	ring		
	Cylinder we	ils		Pressure jet c				
Oil pump 1	ype			Ge				
		. engine rpm)		40 PSI @ 20	000 RPM			
Oil press.	sending unit	(elect. or mech.)	Electric					
		ig, stationary)	Stationary					
Ort filter :	system (full f	low, part., other)	Full flow					
Firter repl	acement (ele	ment, complete)	Complete					
Capacity	of cicase, les	s filter-refill (qt.)	4		<u> </u>	5		
-	recommended roture range)	(SAE viscosity	0° to 60°F	ove - 20W, 10 - 10W, 5W-3 F - 5W, 5W-2		20W-40		
Engine Service Regmt, (MM, MS, etc.)			MS					
ENGINE	– EXHAUST	SYSTEM	-, ·, <u>·, ·, · · · · · · · · · · · · · · </u>					
Type (sing dual, othe		ith cross-over,		Du	al			
	o. & type (rev iru, separate			Two, reve				
Exhaust p	ipe dia. B	Ironch	$2.00 \times .074$	2.5	0 x .082			
(O.D.,wal	thick.)	lain	$2.00 \times .082$ (a)	2.50 x .	092 laminated			
Touloupe	dio. (O.D. &	wall thickness)	Chrome plat	ed extension;	2.00 at connecti	on048		

(a) Laminated

MAKE (OF CARCO	RVETT	E MODEL	YEAR 1971 D	ATE ISSUED 9	/70REV	SED (+)
		 -		8 - 350		V8 - 454	
MODEL			270 HP	330 HP	365 H	<u></u>	425 HP
	- FUEL SYSTEM			(See supplemente Supercharger, etc	al page for Details o c. if used)		on,
	n type: Carburetor,	fuel		Ca	rburetor		• .
	Refill capacity (U	I S and a)	- 	18 apı	proximately		
Fuel Tonk	Filler location	gets./	<u> </u>		of rear deck		
	Type (elec. or me	ch.)	<u> </u>		hanical		
Fuel Pump	Locations				nt front of eng	gine	<u> </u>
<u> </u>	Pressure range			7.50	- 9.00 PSI	· 	
Vacuum	booster (std., optio	nal, none)			None		
Fuel	Туре	· 	F	ine mesh plast	<u>ic strainer in</u>	gas tank	
Filter	Locations		and	paper filter ele	<u>ment in carbu</u> itomatic	retor inl	<u>et</u>
	Choke type		<u> </u>				
	Intake manifold he (exhaust or water)		1	E	Exhaust		
Carbure-		Standard		Oil wette	d paper elem	ent	
tor	type	Optional					
•	Idle speed (spec.	Manual (N) 600	700	.600		700
	neutral or drive)	Automatic	(II) 550		600		700
		Idle A/F mi	×.	No	t specified		
7			CARBURETOR SUP	PPLEMENTARY INFOR	MATION		
		Engine Displ.	Transmission	Carbure Make	Model	No. Used and Type	Barrel Size
			Manual Automatic	Rochester	7041213 7041212	One;	1.38 Prim. 2.25 Sec.
		350 330hp	Manual	Holley	3989014	One; 4-bbl.	1.686 Prim. & Sec
	All odels		Manual Automatic	Rochester	7041205 7041204	One; 4-bbl.	1.38 Prim. 2.25 Sec.
; -		'i' L	Manual Automatic	- Holley	3986195 3986196	One; 4-bbl.	1.686 Prim. & Sec

MAKE OF CAR ____CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (+)12/70 V8 - 350330 HP 365 HP 425 HP 270 HP MODEL_ FNGINE - COOLING SYSTEM Pressure Type system (pressure, pressure vented, atmospheric other) 15 ± 1 PSI Radiator cap relief valve pressure Choke Circula Type (choke, bypass) 177°-183° 192°-198° 177°-183° 192°-198° thermostat Starts to open at Centrifugal Type (centrifugal, other) **25 @ 200**0 23 @ 2000 GPM 1000 pump rpm Number of pumps One gmug Drive (V-belt, other) V-belt Permanently lubricated double row ball Bearing type External By-pass recirculation type (inter., ext.) Internal Tube and center Radiator core type Copper - brass Aluminum (cellular, tube and fin, other) 20 15 18 With heater (gt.) Cooling 21 21 14 17 Without heater (qt.) system 18 Opt. equipment-specify (qt.) 18 Yes Water jackets full length of cyl. (yes, no) Yes Water all around cylinder (yes, no) Number and type 1.75 1.88 (molded, straight) One, molded Inside diameter Number and type 1.50 (molded, straight) Radiator Upper One, molded Inside diameter Number and type One, molded None (molded, straight) By-pass .725-.765 înside diameter None 5-staggered Number of blades & spacing 17.50 949:1 1.15:1 Fon Ratio-fan to crankshaft rev. Thermo-modulated viscous Fan cutout type Double row ball Bearing type HI В H Generator or alternator *Drive H В F Water Pump belts (indicate **Power Steering** belt used K Air Conditioning by letter) Air Injection Κ c Drive Belt Dimensions Angle of V + 30.75 54.25 35.14 32.25 58.00 52.75 32.46 32.50 53.75 31.86 43.50 46.25 Nominal length (SAE) Width

MAKE OF CAR	CORVETTE	MODEL YEARDATE ISS	JED 9/70 REVISED (4)12/70
		V8 - 350 - 270 HP	V8 - 350 - 330 HP
MODEL		V8 - 454 - 365 HP	V8 - 454 - 425 HP
WORL		<u> </u>	

MODEL			V8	- 454 -	365 HP	V8 - 454 - 425 HP	
VEHICLE EWIS	SION CONTR	ROL					
		(Air injection, engine modifications, other)		m	Engine odifications	Air injection	
		Type		╢──	<u> </u>	Semi-articulated vane typ	
				+		19.3 cubic inch	
	Air	Displacement		╅		1.15:1	
Exhaust	Injection	Drive ratio			4)	Crankshaft pulley	
	Pump .	Relief valve (type	.1	-∦	- N N	Diverter valve	
Emission		Filter (describe)	<u>''</u>		A CA	Centrifugal air cleaner	
Control		Air distribution (head, manifold, s	etc)		\$ 21, E	Manifold	
	Air			 	- 3'	Exhaust ports	
	injectio	Point of entry				. 2565	
	System	Injection tube i.d				Pressure plate type	
		Check valve type Backfire protection				Diverter valve	
	+ /		Standard		Ind	uction system	
	Type (ven	itilates to atmos., iction system, other)	Optional				
		Make and model	1 Optioner	AC Spark Plug			
		Location	-		nt of rocker cover		
Crankcase	Control Unit		La		· · · · · · · · · · · · · · · · · · ·		
		Energy source (manifold vacuum, carburetor, other)			Manifold vacuum		
Emission Control		Control method (varial orifice, fixed orifice,		Variable orifice			
· ·		Discharges (to intake manifold, other)			Intake manifold		
	Complete	Air inlet (breather cap		Carburetor air cleaner			
	system	Flame arrestor (screen		· · · · · · · · · · · · · · · · · · ·	Screen		
		Refill Capacity (U.S. gallans)	<u> </u>		18 ap	proximately	
		Thermal expansion volume (cu. ft.)					
	Fuel	Pressure relief location (lbs.)			25 to 35" of Water		
	Tonk	Vacuum relief location (lbs.)		7 to 14" of Water			
		Vapor-liquid separator type					
Evaporative		Vapor vented to		•	Cai	nnister	
Emission		(crankcase, cannister, other)					
Control	Carbu-	Vapor vented to					
	retor	(crankcase,				•	
		cannister, other)		_			
		Storage provision		Į.			
		(crankcase,		 			
	Vapor	cannister, other)					
	Storage	Volume (cu. ft.) or capacity (grams)					
	1	Control valve				e Value	

MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (+)12/70 CORVETTE MAKE OF CAR V8 - 350 V8 - 454 365 HP 425 HP 330 HP 270 HP MODEL ELECTRICAL - SUPPLY SYSTEM Delco-Remy 1980150 Delco-Remy 1980147 Make and Model 12 volts - 90 plates 12 volts - 78 plates Noltage Rtg. & Total Plates 62 amp, hr. @ 20 hr. rate | 80 amp, hr. @ 20 hr. rate. SAE Designation & Amp. Hr. Rtg. Behind drivers seat in storage compartment 1 ocution Negative Terminal grounded Delco-Remy Moke 1100950 1100901 Mode! Generator Diode rectified with integral regulator - 42 amps. Type and rating Alternator Output at engine idle (neutral) 13 amps. 2.53:1 2.15:12. 53:1 Ratio-Gen. to Cr s rev. Delco-Remy Model Micro circuit unit; integral with generator Type Closing voltage None generator rpm Cutout Regulator relay Reverse current None to open 13.8-14.8 @ 85°F Voltage Requloted Current Operating Voltage Temperature 3-8 amperes test Load conditions Other None **ELECTRICAL - STARTING SYSTEM** Delco-Remy Make 1108400 1108338 Model Starting Motor Rotation (drive Clockwise end view) Solenoid Switch isolenoid, manual) Manual - place gearshift in neutral and depress clutch Automatic - place control lever in "N" or "P" position Initial start - press accelerator to floor and release. Turn ignition to START, release as soon as engine starts Starting control procedure Positive shift solenoid Engagement type Rear Pinion meshes (front, rear) 9 Pinion Motor Number 168 Manual 153 Drive of teeth 168 Auto. .4010-.4130 .4100-.4220 Monual

4010-.4130

Flywheel tooth

face width

.4100-.4220

EVISED (+)

MAKE OF CAR _	CORVETTE	MODEL YEAR 1971	DATE ISSUED_9/7	O_REVISED (+)	
	V8	- 350	V8 - 456		
MODEL	270 HP	330 HP	365 HP	425 HP	
MODEL	<u> </u>				

ELECTRICAL - IGNITION SYSTEM - DISTRIBUTOR

Breaker gap (in.)		.019_	Transist-	.019	Transist-	
Com angle	(deg.)	29-31	orized	28-30	orized	
Breaker orm tension		19-230		28- 32		
	Manual	1112050	1112038	1112051	1112076	
Destributor	- Automatic	1112050		1112051	1112053	
	Manual	8°BTC @ 600	8°BTC @ 700	8°BTC @ 600	8°BTC @ 700	
(RPM)	Automatic	8°BTC @ 550		8°BTC @ 600	12°BTC @700	

Distributor Model	Cro	CENTRIFUGAL ADVANC		VACUUM ADVANCE Crankshaft Deg. In. of Mercury		
	Stort	Intermediate	Max.	Start	Mox.	
112038	1330	16@2250	24 @ 5000	8.00	15 @ 15.5	
1112050	1335	11 @ 2400	18 @ 4200	8.00	15 @ 15.3	
1112051	1145	14@2000	22 @ 3000	8.00	20 @ 17	
1112053	1310	21@2350	28 @ 5000	7.00	12 @ 12	
1112076	1300	25 @ 2350	31 @ 6000	7.00	12 @ 12	
				-		

MAKE	OF CAR	CORVETTE	MODEL YEAR	1971	_DATE	SSUED 9/70	REVISED (12/7		
			vs -	350		v8	- 454		
MODEL	ι		270 HP	330	HP	365 HP	425 HP		
		IITION SYSTEM				·			
	Convent	ional — Std., Opt., N.A.			Stan	dard			
Туре	Transist	torized - Std., Opt., N.A.			Not av	ailable			
	Other (s	pecify)			· No	ne			
	Moke				Delco				
<i>~</i> .	Model		1115270	111	5272	1115287	1115263		
Coil	Amps	Engine stopped			4.	0			
	- Cuips	Engine idling			1.				
	Make			_		rk Plug			
6 5 1	Model		AC R44TS	AC R4	13 TS	AC R43TS	AC R44XL		
Spork Plug	Thread i	mm)			14				
. 109	Tighteni	ng torque (lb. ft.)			2.5				
	Gop				. 033	038			
	Conducti	or type	Linen core in	Linen core impregnated with electrical conducting materi					
Cable	Insulatio	on type		Rubbe	r with n	eoprene jack	.et		
	Spark pl	ug protector			Neor	rene			
Location	s & type								
ELECTRIC	CAL – INS	TRUMENTS AND EQUIF	PMENT		***	3 			
Speed.	Туре			Circ	ılar dia	with pointe:	r		
ometer		neter (std. opt., N.A.)		•	Y	es			
Charge	indicator -	type			Amn	neter			
	ature indica		Electric gauge						
Oil pres	ssure indica	tor – type	Bourdon tube gauge						
Fuel inc	dicator - typ	oe	Electric gauge						
Wind-	Type - S	Standard	Electric, two-speed						
shield wiper	Type - (Optional	None						
Wind-	Type - S		Push-button						
shield washer	Type - (Optional	None						
	Туре		Vibrator						
Hain	Number (used	One						
	Amp drav	w (each)		4.5-6.5 @ 12.5 V (low note)					
Other				Med	hanical	tachometer			
									

MAKE C	F CAR _ CORV	ETTE	MODEL YEAR 1971	_DATE ISSUED 9/70REVISED (4)12/7		
	<u></u>	V8-350	V8-454	V8-454		
		270 & 330	HP 365 HP	425 HP		
MODEL _	IITS - CLUTCH (Manu	'				
JKIVE OIL			, single dry - disc	Chevrolet, dual dry disc		
Make & ty	pe	Cheviolet	centrifugal	Centrifugal		
·		<u>sem</u>	Circular plate di	aphragm, bent finger design		
	sure plate springs ng load (fb.)		2450 - 2750	1600 - 1800		
	tch driven discs		One	Two		
140. BI EID	Material	Wo	ven type asbestos	Asbestos: alum. back facing		
	Outside & inside dia.		1.00 x 6.50	10. 00 x 6. 00		
Clutch	Total eff, area (sq.in.)		123, 70	201. 06		
facing	Thickness		. 13	35 each		
	Engagement cushion-		Flat spring ste	el between cushions		
Release	Type & method of lubrication		Single row ball	, packed and sealed		
Torsional damping	Methods: springs, friction material		Coil springs			
Monual 3-s	IITS - TRANSMISSIO			available		
	peed (std., opt. N.A.)		Standard Optional*			
Automatic	(std., opt. N.A.)			ptional.		
DRIVE UN	NITS - MANUAL TRA	NS.				
Number of	forward speeds		4-Speed (a)	4-Speed (b)		
	In first		2. 52:1	2, 20:1		
Transmis.	In second		1.88:1	1, 64:1		
ironsmis- Lion retios	In third		1. 46:1	1, 27:1		
	In fourth		1.00:1	1.00:1		
In reverse			2, 59:1	2. 26:1		
ynchrono	is meshing, specify ge	ors	All io	rward gears		
Shift lever location			Floor mounted with console			
Copocity (pt.)				3		
	Type recommended		Meeting Military Specs. MIL-L-2105B			
Lubricant	SAE vis- Summer	SAE 80				
	cosity Winter		SAE 80 SAE 80			
	number E	ld 📗				

- (a) Available all engine combinations except V8 454 (425 HP)
- (b) Available all engine combinations except V8 350 (300 HP)
- Not available with V8-350 330 HP

Not available

 $2.00 \times 29.50 \times 0.095$

* Center to center of universal joints, or to centerline of rear attachment. (Continued)

* Upshift: V8-350 300 HP (1-2 45; 2-3 82) V8 454 365 HP (1-2 46; 2-3 82)

V8 454 425 HP (1-2 51; 2-3 94)

wall

thick-

ness ·

Overdrive transmission

Automotic transmission

Kickdown: V8-350 306 HP (2-1 37; 3-2 76) V8 454 365 HP (2-1 38; 3-2 76)

V8 454 425 HP (2-1 34; 3-2 86)

MAKE OF	CARC	ORVETTE	MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (6)
MODEL			
DRIVE UNIT	S - WHEELS		
Type & ma	terial		Short spoke spider, steel
	-	Std.	15 x 8JJ
Rim (size &	flange type)	Opt.	None
	Type (bolt o	r stud)	Stud
Attachment	Circle diame		4.75
	Number and	- · · · · · · · · · · · · · · · · ·	5 Hex nuts - 7/16-20 UNF 2-B
MODEL			
DRIVE UNIT	S - TIRES		
	Size, ply rat	ing, & ply	F70-15B-2 ply (4 ply rating)
_	Type (bias, radial, etc.)		Nylon
Standard	Full rated	Front	Cold - 24; Hot - 30
	Inflation Press.	Rear	Cold - 24; Hot - 30
	Rev./Mile a	50 MPH	772
Optional	Size, ply rating, & ply		None
]		
BRAKES - P	ARKING		·
Type of co	ntrol		Grip handle control
Location o			In floor console between seats
Operates o			Rear wheels
	Type (interna	or external)	<u>Internal</u>
rate from	Drum diamete		6.5
service brakes	Lining size (width x thick		6.78 x 1.25 x 0.175

MAKE C	F CAR_	CORV	ETTE	MODEL TEAK DATE ISSUED AT KEVISED			
	•	•	•				
MODEL.							
BRAKES -	SERVICE						
Type (dru	m) or (disc	& no. of pi	stons)	Caliper disc, 4 per wheel, hydraulic			
	sting (std.,			Standard			
Special Valving	Type (pro	portion, de other)	lay,	Metering			
	ike make &	Std.		unit integral			
	ote, int., et			Delco Moraine; vacuum power unit; integral 78.1			
	area (sq. ir			86.3			
	ing area (sa a (sq. in.) '		· · · · ·	461.2			
	<u>a (sq. in.)</u> Rear Effecti			701.5			
Relations							
•	Diameter	Front					
Drum	(nominal)	Rear					
	Type and material	,		·			
	Outer wor	king diame	ter	11.75			
Disc	Inner wor	king diame	ter	8.0			
Rotot	Working width			1.25			
		type (vent	ed/solid)	Cast iron, vented			
Wheel cyl	Front			1.875			
inder bore	Rear			1.375			
Master Cylinder	Bore			1.00			
Pedal arc	Stroke			5.23			
	sure at 100	lb. pedal le	oad	576			
Shoe	Front			Self adjusting			
Clearance	Reor			Self adjusting			
Anti-skid	device type	(std., opt.	, N.A.)	N.A.			
	Bonded or	riveted		Riveted			
		Material	15.	Molded asbestos			
	<u> </u>	Size	Prim. or out-	5.96 x 2.21 x 0.41			
	Front Wheel	(length x width x	Second.	5.96 x 2.21 x 0.41			
÷	WILDE	thickness)	or in- board	J. /U A L. L. A U. L.			
Broke		Segments		One			
lining		Material		Molded asbestos			
	1	Size	Prim. or	5.96 x 2.21 x 0.41			
	Rear	(length ×	out- board				
	Wheel	width x	Second. or in-	5.96 x 2.21 x 0.41			
		thickness)	board				
		Segments	per shoe	One			

Excludes rivet holes, grooves, chamfers, etc. ** includes rivet holes, grooves, chamfers, etc.

^{***} Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

Page

MODEL	MAKE C	F CAR_	CORVI	ETTE	MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (+)			
Manual (std., opt., NA) Standard - energy absorbing steering column	MODEL							
Power (std., opt., NA)	STEERING)						
Power (std., opt., NA)	Manual (s	td., opt., N	A)	·	Standard - energy absorbing steering column			
Adjustable Steering wheel (1st), swing, other) (1st), swing,			· · · · · · · · · · · · · · · · · · ·	·	· · · · · · · · · · · · · · · · · · ·			
								
	steering w	heel	descriptio	n	Tilt and telescopic steering wheel; 3" adjustment			
	(tilt, swin	g, other)	(std., opt.	, NA)	Optional			
Turning diameter (feet)	Wheel dig	meter	Manual		15.0			
Font Curb to curb (1. & r.) 37.0			Power		15.0			
Manual Type	Ť	1	Wall to wa	II (I. & r.)	39.0			
Type		front	Curb to cu	irb (l. & r.)	37.0			
Manual Gear	(feet)	l .	Wall to wa	II (I. & r.)				
Manual Carr		rear	Curb to cu	rb (l. & r.)				
Manual Carr			 	<u> </u>				
Rotios Overall 20.2:1	Manuel	Gear	Make	T-				
No. wheel turns (stop to stop) Type (coaxial, linkage, etc.) Ratios Gear wannat		Ratios	 					
Type (coaxiol, linkage, etc.) Make Type Gear Ratios Gear Ratios Coverall Fump driven by No. wheel turns (stop to stop) Location (front or reor of wheels, other) Drag link (trans. or longit.) Tie rods (one or two) Sieering Axis Whi. Align (range of) Whi. Align (range of) Whi. Align (range of) Whi. Align (range of) Toe-in (outside track inches) Steering spindle & joint type Wheel Wheel Wheel Spindle Wheel Spindle Thread size Thread size Thread size Thread size Tape Saginaw Steering Same as manual 16. 0:1 17. 6:1 Crankshaft pulley Rear Crankshaft pulley Rear Parallelogram None Two Two 7° ± 1/2° Ball stud with non-metallic bearing surface None Standard: +1° +1°; Power Steering +2-1/4° ±1° Toe-in (outside track inches) Steering knuckle with spherical joint Thread size Thread size Taper roller			1					
Power Power Type		+						
Power Type Same as manual								
Power Gear Ratios Geor 16.0:1 17.6:1 17.6:1	•	Make	Type					
Power Ratios Overall 17. 6;1 17. 6;1		Gear		Gear				
Pump driven by Crankshaft pulley No. wheel turns (stop to stop) 2, 9	Power		Ratios	-				
Type Type Type Parallelogram Rear Cacation (front or rear of wheels, other) Drag link (trans. or longit.) Tie rods (one or two) Inclination at camber (deg.) Steering Axis Whil. Align (range at curb wt. & preferred) Fred wit. & preferred) Steering spindle & joint type Wheel Steering spindle Wheel Steering spindle Tope Tope Tope Tope Parallelogram Rear Rear None Two 7°±1/2° Ball stud with non-metallic bearing surface Ball stud with non-metallic bearing surface Thrust None Standard: +1°±1°; Power Steering +2-1/4°±1° Camber (deg.) Top-in (outside track inches) Steering spindle & joint type Steering knuckle with spherical joint 1.37455±.00025 Thread size Bearing type Taper roller		Pump driven by		1				
Type		No. wheel turns (stop to stop)						
Linkage Location (front or rear of wheels, other) Drag link (trans. or longit.) Tie rods (one or two) Inclination at camber (deg.) Steering Axis Mil. Align. Caster (deg.) Whl. Align. Caster (deg.) Standard: +1°+1°; Power Steering +2-1/4°+1° curb wt. & comber (deg.) Toe-in (outside track inches) Steering spindle & joint type Wheel Spindle Thread size Location (front or rear of wheels, other) None Rear Rear Rear None Stwo Two Two Theo Theo Ball stud with non-metallic bearing surface None Standard: +1°+1°; Power Steering +2-1/4°+1° at 3/4° ± 3/4° (a) Steering spindle & joint type Steering knuckle with spherical joint 1.37455 ± .00025 Outer bearing Taper roller Taper roller		+						
Drag link (trans. or longit.) None		Location (front or rear						
Tie rods (one or two) Inclination at camber (deg.) Steering Axis Steering Axis Whi. Align. (range at curb wi. & preferred) Toe-in (autside track inches) Steering spindle Wheel Spindle Thread size Truco Toe-in (autside track inches) Truco Truco Ball stud with non-metallic bearing surface None None None Standard: +1° +1°; Power Steering +2-1/4° ±1° + 3/4° ± 3/4° (a) 3/16 - 5/16 (a) Steering spindle & joint type Steering knuckle with spherical joint 1.37455 ± .00025 Outer bearing Taper roller	Linkage				Kear			
Inclination at camber (deg.) 7° ± 1/2°		Drag link	(trans. or lo	ngit.)	None			
Steering Axis Bearings Cower Ball stud with non-metallic bearing surface		Tie rods (one or two)					
Axis (type) Lower Ball stud with non-metallic bearing surface None Whl. Align. Caster (deg.) Standard: +1°+1°; Power Steering +2-1/4°±1° (range at curb wt. & Toe-in (outside track inches) 3/16 - 5/16 (a) Steering spindle & joint type Steering knuckle with spherical joint Wheel Spindle Thread size 27/32-20 NEF-3 (modified) Bearing type Taper roller		Inclination	n at camber	(deg.)	7° ± 1/2°			
While Align Caster (deg.) While Align Caster (deg.) (range at curb wt. & Camber (deg.) Toe-in (outside track inches) Steering spindle & joint type Wheel Spindle Thread size Thrust	Steering	Bearings	Upper		Ball stud with non-metallic bearing surface			
While Align Caster (deg.) Standard: +1° +1°; Power Steering +2-1/4° ±1°	Axis				Ball stud with non-metallic bearing surface			
(range at curb wt. & Camber (deg.) Toe-in (outside track inches) Steering spindle & joint type Wheel Spindle Thread size Camber (deg.) + 3/4° ± 3/4° (a) 3/16 - 5/16 (a) Steering knuckle with spherical joint 1.37455 ± .00025 Outer bearing 0.84305 ± .00025 Thread size 27/32-20 NEF-3 (modified) Bearing type	Whi Air							
preferred) Toe-in (outside track inches) Steering spindle & joint type Wheel Spindle Thread size Toe-in (outside track inches) Steering knuckle with spherical joint 1.37455 ± .00025 Outer bearing 27/32-20 NEF-3 (modified) Bearing type	(range at		<u> </u>		Standard: $+1^{\circ} + 1^{\circ}$; Power Steering $+2-1/4^{\circ} \pm 1^{\circ}$			
Steering spindle & joint type Steering knuckle with spherical joint				inches)				
Wheel Spindle Diameter Inner bearing 1.37455 ± .00025 Spindle Thread size 27/32-20 NEF-3 (modified) Bearing type Taper roller	·			1				
Wheel Spindle Outer bearing 0.84305 ± .00025 Thread size 27/32-20 NEF-3 (modified) Bearing type Taper roller		1		ng I	1 37455 + .00025			
Thread size 27/32-20 NEF-3 (modified) Bearing type Taper roller	-	Diameter						
Bearing type Taper roller	Spindle	Thread siz						
		Bearing ty	pe					

(a) Rear wheel alignment: Camber $-7/8^{\circ} \pm -1/2^{\circ}$ Toe-in 1/32 to 3/32

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MAKE	OF CARCORVETT	E MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (.)			
MODEL	·				
USPENS	SION - GENERAL	(See Supplement page for details on Air Suspension)			
Provision	n for car leveling	Front stabilizer bar			
	for brake dip control	Mounting angle of front upper control arm			
Provision	n for acc. squat control	None			
Special p	ng	Front: 5" forward of front door opening, under frame Rear: 3" forward of wheel opening, under frame			
Shock	Туре	Direct double acting hydraulic			
absorber	Make	Delco			
rear	Piston dia.	1.00			
Other spe	acial features				
SUSPENS	SION - FRONT				
Type and	description				
		Independent: SLA with coil springs and concentric shock			
		absorber, and spherically jointed steering knuckle for each wheel			
	Туре	Coil			
	Material	Steel alloy			
Spring	Size (coil design height & 1.D.; bar length x dia.)	15.85 x 3.80; 138.25 x 0.600 with 350 V8 engines 15.77 x 3.80; 138.75 x 0.618 with 454 V8 engines			
	Spring rate (1b. per in.)	250 with 350 engines; 284 with 454 engines			
	Rate at wheel (ib. per in.)	89 with 350 engines; 97 with 454 engines			
Stabilizer	Type (link, linkless, frameless)	Link			
	Material & bar diameter	0.75 with 350 engines; 0.9375 with 454 engines			
SUSPENS	SION - REAR				
Type and	description	(a)			
Orive and	torque taken through	Torque control arms			
	Туре	Multi-leaf			
	Material	Chrome carbon steel			
	Size (length x width,coil design height & I.D.;bar length & dia.)	46.36 x 2.25			
Spring	Spring rate (lb. per in.)	85			
	Rate at wheel (lb. per in.)	121			
	Mounting insulation type	Rubber mounted at differential, vertical loading only at shackle			
	No. of leaves	<u> </u>			
	leaf Shackle(comp.ortens.	+			
Stabilizer		Link (b)			
- 	Material	0.5625			
Track bar	type	None			

- (a) Full independent with fixed differential, transverse multi-leaf spring, lateral struts and universally jointed axle shafts.
- (b) With 454 CID engine.

MAKE OF CARC	ORVETTE	_MODEL YEAR 1971 DATE	ISSUED 9/70 REVISED (+)			
MODEL		Coupe Convertible				
FRAME						
Type and description (Separate frame, unitized frame, partially - unitized frame)		All welded, full length, ladder constructed frame with (5) cross members				
BODY - MISCELLANEOU	IS INFORMATION					
Drs. hinged. Front doors		Fr	c.nt			
(front, rr.) Rear goors						
Type of finish (lacquer, e	namel, other)	- Lac	quer			
Hood counterbalanced (ye		, N	io			
Hood release control (inte		Inte	rnal			
Vehicle Indent, No. focotion		Left hand win	ndshield pillar			
Engine No. location		Front right side of cylinder block				
Theft protection - type		Lock mounted on steering column: locks steering wheel, transmission shift lever and ignition				
Vent window control meth	od Front	Nome				
(crank, friction pivot)	Rear	• •				
	Front	Bucket, polyurethane packing				
Seat cushion type	Rear !	<u> </u>				
	3rd seat					
	Front	Bucket, polyurethane padding				
Seat back type	Rear					
	3rd seat					
Windshield glass type (i.e., single curved - laminated plate)		Curved - laminated plate-tinted				
Side glass type (i.e., curvea - tempered plate)		Curved - tempered plate-tinted				
Backlight glass type (i.e., compound		Flat, tempered plate,	Vinyl plastic (soft top) curv			
curved - tempered plate, three		removable-tinted	tempered plate (aux. H.T.			
Windshield glass exposed surface area		977.4				
Side glass exposed surface area		800.8				
Backlight glass exposed		392.5	418.0 (a)			
Total glass exposed surface area		2170.7	2196.2			
		·				
	1					

⁽a) Removable auxiliary hardtop - 620.1

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MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (6) KE OF CAR_CORVETTE DDEL (Indicate whether standard, optional or NA on each series) **NVENIENCE EQUIPMENT** Optional Side windows NA Vent windows NA Backlight or tailgate NA wer seats (specify type as -11 as availability) NA clining front seat back (R-L or both) Standard-integral ont seat head restrainer (R-L or both) Optional-AM-FM Push-button, AM-FM Stereo idios (specify type as Il as availability) NA ar seat speaker NA wer antenna Standard ock Optional - Four-season (manual control) conditioner (specify type d availability) NA eed warning device NΑ eed control device ÑΑ ition lock lamp Standard Coupes, NA - Convertible Standard ave compartment lamp Standard ggage compartment lamp NA derhood lamp Standard urtesy lomp Standard NA to, trans, quad, lamp rnering light lamp AP HEIGHT AND SPACING 25.4Highest * Headiamp Lowest right above Highest ound to Tail nter of bulb Lowest morker 18.0 Sidemarker 19.0 Rear 11.3 Inside Headlamp 18.0 Outside " 13.95 stance from Inside Tail L of car to Outside nter of bulb 22.52 Front Directional 21.22

f single headlamps are used enter here.

MAKE OF CAR CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (+)

VEHICLE WEIGHTS

	VEHICLE WEIGHTS						· San		
	CURB WEIGHT POUNDS			% PASS. WEIGHT DISTRIBUTION			LIQUID WEIGHT		
	Frent	1	i	Pass, In Front		Pass, in Rear		Fuel	Coolant
		Rear	Total	Front	Rear	Front	Rear	1.00.	Coolean
Model	:					-			+
2-Door Sport Coupe	1616	1676	3292	28.0	72.0	i I		108	31
Convertible	1590	1716	3306	28.0	72.0		T	108	31
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^{*}Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

Page 2

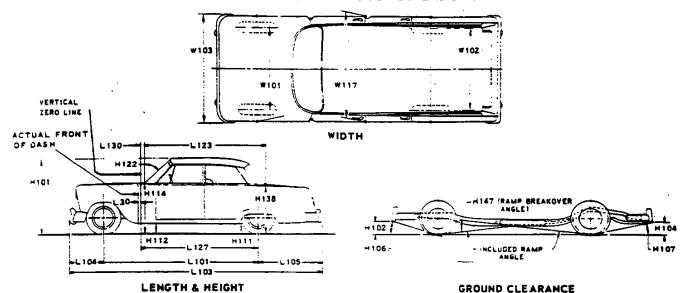
MAKE OF CAR CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (...)

OPTIONAL EQUIPMENT WEIGHTS

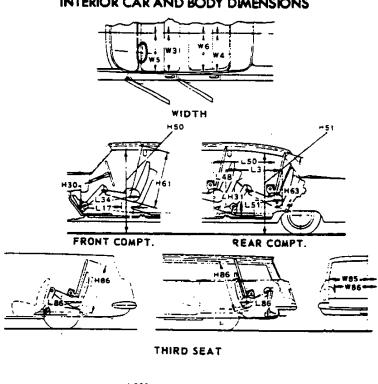
WEIGHT POUNDS Front Reer Total Remarks		OPTIONAL EQUIPMENT WELL	into
350 cu.in. V8 (370 HP) + 32 + 4 + 36 154 cu.in. V8 (365 HP) + 199 + 23 + 220 + 82 1-Speed transmission + 0 + 1 + 1 All engine combinations except LT1 1-Speed transmission + 11 + 0 + 11 V8 - 350 (LT1) 1-Turbo Hydra-Matic + 57 + 3 + 60 V8 - 350 engines 1-32 + 16 + 48 V8 - 454 engine LS5 1-41 + 9 + 50 V8 - 454 LS6 1-41 + 9 + 50 V8 - 454 LS6 1-41 + 9 + 50 V8 - 454 LS6 1-41 + 9 + 50 With manual transmission and V8 - 31 1-41 + 100 With Turbo Hydra-Matic and V8 - 31 1-41 + 100 With V8 - 454 all transmissions 1-42 + 14 With 350 V8 engines 1-43 + 41 With 454 V8 engines 1-45 + 1 + 24 V8 Base engine 1-45 + 1 + 26 V8-350 (LT1)		WEIGHT POUNDS	
154 cu. in. V8 (365 HP)	pment Differential Weights	Front Rear Total	! Remarks .
### 154 cu.in. V8 (365 HP)	0 cu.in. V8 (370 HP)	+ 32 + 4 + 3	6
## 154 cu.in. V8 (425 HP)	4 cu.in. V8 (365 HP)		0
1	4 cu.in. V8 (425 HP)	+ 62 +20 + 8	2
+ 11	Speed transmission		
+ 32			1 V8 - 350 (LT1)
+ 32	rbo Hydra-Matic		
Power windows		+ 32 1 +16 + =	8 V8 - 454 engine LS5
Auxiliary top + 8 + 47 + 55 Air Conditioning + 72 + 18 + 90 With manual transmission and V8 - 35 + 84 + 16 + 100 With Turbo Hydra-Matic and V8 - 350 + 75 + 19 + 94 With V8 - 454 all transmissions Power brakes + 8 + 2 + 10 Radio AM/FM + 7 + 7 + 14 With 350 V8 engines + 6 + 5 + 11 With 454 V8 engines Power steering + 23 + 1 + 24 V8 Base engine + 25 + 1 + 26 V8-350 (LT1)			
Air Conditioning + 72 + 18 + 90 With manual transmission and V8 - 31 + 84 + 16 + 100 With Turbo Hydra-Matic and V8 - 350 + 75 + 19 + 94 With V8 - 454 all transmissions Power brakes + 8 + 2 + 10 Radio AM/FM + 7 + 7 + 14 With 350 V8 engines + 6 + 5 + 11 With 454 V8 engines Power steering + 23 + 1 + 24 V8 Base engine + 25 + 1 + 26 V8-350 (LT1)	wer windows		
Air Conditioning + 72 +18 +90 With manual transmission and V8 - 350 + 84 +16 +100 With Turbo Hydra-Matic and V8 - 350 + 75 +19 + 94 With V8 - 454 all transmissions Power brakes + 8 + 2 + 10 Radio AM/FM + 7 + 7 + 14 With 350 V8 engines Power steering + 23 + 1 + 24 V8 Base engine Power steering + 25 + 1 + 26 V8-350 (LT1)			
+ 84			With manual transmission and V8 - 350
Power brakes		+ 84 +16 +10	0 With Turbo Hydra-Matic and V8 - 350
Radio AM/FM + 7 + 7 + 14 With 350 V8 engines + 6 + 5 + 11 With 454 V8 engines Power steering + 23 + 1 + 24 V8 Base engine + 25 + 1 + 26 V8-350 (LT1)			
Power steering + 23 + 1 + 24 With 350 V8 engines + 25 + 1 + 26 V8-350 (LT1)	wer brakes		
+ 6 + 5 + 11 With 454 V8 engines Power steering + 23 + 1 + 24 V8 Base engine + 25 + 1 + 26 V8-350 (LT1)		+ 7; + 7!+	With 350 V8 engines
+ 25 + 1 + 26 V8-350 (LT1)		+ 6 + 5 +	11 With 454 V8 engines
+ 25 + 1 + 26 V8-350 (LT1)			
+ 25 + 1 + 26 V8-350 (LT1)	wer steering	+ 23 + 1 +	V8 Base engine
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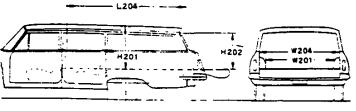
CAR AND BODY DIMENSIONS **KEY SHEET**

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS





CARGO SPACE

CAR AND BODY DIMENSIONS

KEY SHEET

DIMENSION DEFINITIONS

EXTERIOR WIDTH DIMENSIONS

WIO1 WHEEL TREAD - FRONT, Measured at centerline of tires, with nominal camber, at ground, w102 WHEEL TREAD - REAR, Measured at centerline of

tires at ground.

W103 MAXIMUM OVERALL CAR WIDTH, Include bumpers, moidings, or sneet metal proffusions. Measured to outside of metal.

WIIT MAXIMUM BODY WIDTH AT =2 PILLAR, Measured across body at =2 pillar, excluding hardware and applied

moidings.

EXTERIOR LENGTH DIMENSIONS

L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.

L101 WHEELBASE.

L103 OVERALL LENGTH. Include bumper guards if standard

L104 OVERHANG - FRONT, Measured from C/L of front wheels to front of car, including bumper guards if

standard equipment.

L105 OVERHANG - REAR. Measured from C L of rear wheels to rear of car, including bumper guards if standard

BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowing Point to the Deck Point.

VERTICAL ZERO LINE TO CENTERLINE OF REAR

WHEELS. A horizontal dimension.

L130 VERTICAL ZERO LINE TO WINDSHIELD COWL
POINT. The horizontal dimension from the vertical
zero line to the theoretical intersection of extended

EXTERIOR HEIGHT DIMENSIONS
H101 OVERALL HEIGHT — DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
H114 COWL POINT TO GROUND. Measured at vehicle centerline.
H138 DECK POINT TO GROUND. Measured at vehicle

HI12 ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to battom of rocker panel, exclud-ing flanges. Measured to the outside of sheet metal at

ing tranges. Measured to the outside of sheet metal at foremost point of rocker panel.

ROCKER PANEL TO GROUND — REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal to the outside of sheet metal. at front of rear wheel apening.

H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the are is used and limited to that section of the windshield comprehensed by an 18-inch chard.

GROUND CLEARANCE DIMENSIONS

- H102 BUMPER TO GROUND FRONT, Minimum dimension, nciudes bumper guards.
- HI04 BUMPER TO GROUND REAR, Minimum dimension, netudes bumper guaras.
- H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, grovel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.

 H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.

 H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent H106 ANGLE OF APPROACH. The angle between ground

with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and inter-secting at point on underside of car which defines the

HIS6 MINIMUM RUNNING GROUND CLEARANCE, Location

HIDD MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

FRONT COMPARTMENT DIMENSIONS
H 61 EFFECTIVE HEAD ROOM - FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.

L 34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR.

- L 34 MAXIMUM EFFECTIVE LEG ROOM—ACCELERATOR.

 Measured along a diagonal line from the Manikin ankle
 pivor center to the H Point plus a constant of 10.0

 inches. For treadle type accelerator pedals, the leg
 room is measured with the Manikin sight tool on the
 accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals
 will be measured with the Manikin foot angle set at 87°
 and the shoe touching the pedal.

 H 30 H POINT TO HEEL POINT FRONT. The vertical
 dimension from the H Point to the Accelerator Heel
 Point.
- L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and regressed seat pesitions.

FRONT COMPARTMENT DIMENSIONS (Cont.)

RONT COMPARTMENT DIMENSIONS (Cont.)

W 3 SHOULDER ROOM - FRONT. The minimum lateral cimensions between the agor garnish moldings or nearest interference, measured at the H Point station.

W 5 HIP ROOM - FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.

H 50 UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body.

vertical almension from a point on the trimmed body spening to the ground, measured at the H Point station. REAR COMPARTMENT DIMENSIONS

50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
H 63 EFFECTIVE HEAD ROOM - REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.

51 MINIMUM EFFECTIVE LEG ROOM - REAR. Measured

51 MINIMUM EFFECTIVE LEG ROOM - REAK, Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.
H 31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the appressed flaor covering.

48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivet ... ne front seat back.

3 REAR COMPARTMENT ROOM, The norezontal dimen-

sion from the back of front sear to front of rear seat back at height tangent to the top of rear seat cushion.

SHOULDER ROOM — REAR. The minimum lateral dimension between the door garnish more or nearest interference. Measured or him no.

H 51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

LUGGAGE COMPARTMENT DIMENSIONS

V) LUGGAGE CAPACITY — USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.

H195 LIFTOVER HEIGHT, Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

STATION WAGON - THIRD SEAT DIMENSIONS
W 85 SHOULDER ROOM - THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station. W 86 HIP ROOM - THIRD SEAT. The lateral dimension

inrough it Point to trimmed surfaces.

4 86 EFFECTIVE LEG ROOM - THIRD SEAT. Measured siong a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, fact is positioned in foat well or to nearest interference with rear end or rear closure.

H 86 EFFECTIVE HEAD ROOM - THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

STATION WAGON - CARGO SPACE DIMENSIONS
L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The
horizontal dimension, measured at the floor level from
the rear of the front seat back to the normal inside
limiting interference on the tailgate, on the car center-

L204 CARGO LENGTH AT BELT - FRONT SEAT. horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal w201 CARGO WIDTH - WHEELHOUSE. The minimum horizon-

tal dimension, measured between wheelmoutings at

floor - et.

W204 OPEN G WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of

himsting interterences of the rear opening at the top of the tailgate.

H203 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.

H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-and lift-gares fully open.

V. 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The

y 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and totagete ciasea.

W4=L204=H201

Form Rev. 3-70

INDEX .

SUBJECT PAGE		PAGE
Automatic Transmission Axis, Steering Axie, Rear Battery Bearings, Engine Baire — Fon Generator, Water Pump	21 Lamp height and18 Legroom13 Lengths – Car a Lifters, valve 7, 6, 7 Linings – Clutch	Axis) spacing nd Body. 1, Brake 16, 9, 16, 17,
Brakes - Parking, Service Power	Motor, Starting	imeni
Capacities Cooling System Fuel Tank Lubricants Engine Crankcase Transmission and Overdrive Rear Axle Car and Body Dimensions Width Length Height Ground Clearance Front Compartment Rear Compartment Luggage Compartment Station Wagon — Third Seat Station Wagon — Carga Space Carburetor	Piston Pins & R Pistons Pistons Pistons Power Brakes Power Brakes Propeller Steering Pumps — Oil, Fi Water Radiator, Hoses Ratios — Axle Compressio Steering Transmissi Rear Axle Regulator — Ger	ings
Caster Choke, Automatic Clutch — Pedal Operated Coil, Ignition Connecting Rods Convenience Equipment Cooling System Crankcase Ventilation System	21 Rings, Piston	å Rear Suspension
Cylinders and Cylinder Head Dimension Definitions Key Sheet Exterior & Interior Distributor — Ignition		gnition, Radio
Electrical System	14, 15 Tail Pipe Thermostar, Co Timing, Engine Tires Toe in 4, 5 Torque Convert Torque — Engire Transmission —	aling
Fan, Cooling	9, 10 Trunk Luggage Turning Diamer	Capacity
Front Suspension	. 5, 10 Universal Join 10 Valves — Intel Vibration Dam	ts, Propeller Shoft
Glass Height (Lamps) Headroom - Body Heights - Car and Body Horns Horsepower - Brake	Water Pump Weights Wheel Alignme Wheelbase Wheels & Tire Wheel Spindle	nt
Ignition System	19 Windshield	end Bodyper

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