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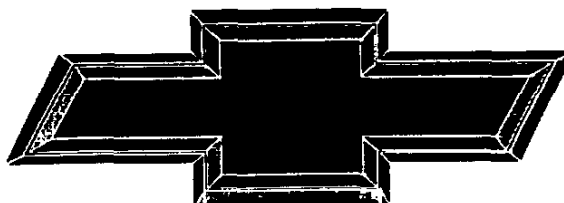
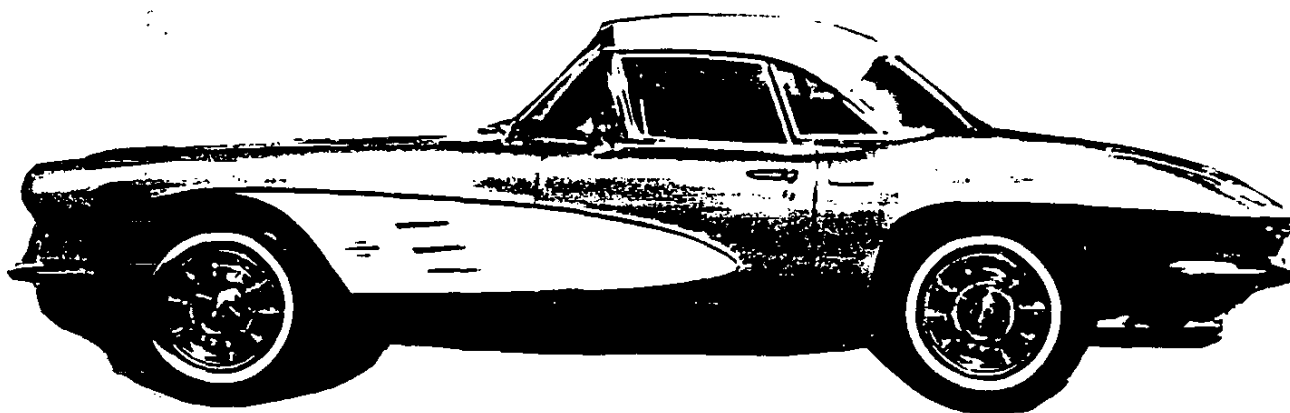
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# 1961

# CORVETTE

## SPECIFICATIONS



GENUINE CHEVROLET™

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# 1961 CORVETTE

Production: 10,939 convertibles

## 1961 NUMBERS

**Vehicle:** 10867S100001 through 10867S110939

**Suffix:** CQ: 283ci, 230hp, mt      CU: 283ci, 270hp, mt  
CR: 283ci, 275hp, mt      DG: 283ci, 230hp, at  
CS: 283ci, 315hp, mt      DJ: 283ci, 245hp, at  
CT: 283ci, 245hp, mt

**Block:** 3756519: All      3789935: All (lp)

**Head:** 3774692: 283ci, 230hp, 245hp, 270hp  
3782461: 283ci, 275hp, 315hp

**Carburetor:** Carter 2613S #3741089: 283ci, 270hp, fc, fd  
Carter 2614S #3741090: 283ci, 270hp, rc  
Carter 2626S #3744002: 283ci, 245hp, fc, fd  
Carter 2627S #3744004: 283ci, 245hp, rc  
Carter 3059S #3779178: 283ci, 230hp  
Carter 3181S #3785554: 283ci, 245hp, fc, sd  
Carter 3182S #3785552: 283ci, 270hp, fc, sd

**Fuel Injection:** Rochester 7017310: 283ci, 275hp  
Rochester 7017320: 283ci, 315hp

**Distributor:** 1110891: 283ci, 245hp, 270hp      1110915: 283ci, 275hp  
1110914: 283ci, 315hp      1110946: 283ci, 230hp

**Generator:** 1102043: 283ci, 230hp, 245hp, 270hp, 275hp  
1102173: 283ci, 315hp, fd  
1102268: 283ci, 315hp, sd

**Ending Vehicle:** Sep 60: 101052      Jan 61: 105203      May 61: 108960  
Oct 60: 102301      Feb 61: 105966      Jun 61: 110160  
Nov 60: 103355      Mar 61: 106889      Jul 61: 110939  
Dec 60: 104306      Apr 61: 107804

**Abbreviations:** at=automatic transmission, ci=cubic inch, fc=front carburetor, fd=first design, hp=horsepower, lp=late production, mt=manual transmission, rc=rear carburetor, sd=second design.

## 1961 FACTS

- Exterior styling was facelifted for 1961. It was the first Corvette without heavy "teeth" in the grill area. The forward headlight bezels were body-color. The rear was completely restyled with four taillights, now a Corvette trademark, but new for 1961.
- Reduction of the transmission tunnel width by twenty-percent increased 1961 Corvette interior space.
- Side-mount radiator expansion tanks began to be used during the 1961 production year.
- Windshield washers, courtesy light, sun shades, temperature-controlled radiator fan, and parking brake warning light all became standard equipment in 1961 models.
- Windshield washer reservoirs mounted on the left side, except for fuel injected engines. For fuel injected engines, reservoirs were mounted on the right side and were protected by heat shields.
- The base 230hp engines had painted steel valve covers. All optional engines had seven-fin cast alloy valve covers.
- Exhausts exited below the body on 1961s, a change from all previous Corvettes which exited through the rear body panel or rear bumper.
- Door sills were redesigned as one-piece, instead of two-piece as in 1960.
- Aluminum cases for 4-speed transmissions were introduced in 1961.

## 1961 OPTIONS

CODE	DESCRIPTION	QTY	RETAIL \$
867	Base Corvette Convertible	10,939	\$3,934.00
101	Heater	10,671	102.25
102	AM Radio, signal seeking	9,316	137.75
242	Positive Crankcase Ventilation	—	5.40
276	Wheels, 15x5.5 (5)	337	0.00
290	Whitewall Tires, 6.70x15	9,780	31.55
313	Powerglide Automatic Transmission	1,458	199.10
353	283ci, 270hp Engine (fuel injection)	118	484.20
354	283ci, 315hp Engine (fuel injection)	1,462	484.20
419	Auxiliary Hardtop	5,680	236.75
426	Power Windows	698	59.20
440	Two-Tone Exterior Paint	3,368	16.15
468	283ci, 270hp Engine (2-bar carburetor)	2,827	182.95
469	283ci, 245hp Engine (2-bar carburetor)	1,175	150.65
473	Power Operated Folding Top	442	161.40
675	Positraction Rear Axle	6,915	43.05
685	4-Speed Manual Transmission	7,013	188.30
687	Metallic Brakes	1,402	37.70
687	Heavy Duty Brakes and Steering	233	333.60
1408	Blackwall Tires, 6.70x15 nylon	—	15.75
1625	24 Gallon Fuel Tank	—	161.40

- A 283ci, 230hp engine, 3-speed manual transmission, vinyl interior trim, and a soft top were included in base price.
- RPO 687 included special front/rear shocks, air scoops/deflectors for front brakes and air scoops for rear brakes, metallic brake facings, finned brake drums with cooling fans, quick-steering adaptor. RPO 354 or RPO 468, and RPO 675 were required.
- "Wide" whitewall tires (optional) appeared last on 1961 Corvette models.
- RPO 242 (pcv) specified bumper guides for California.
- RPO 276 (15x5.5 wheels) included subcaps (small) in lieu of standard full wheel discs.
- LPO 1625 (24 gallon fuel tank) required the hardtop without soft top because the tank occupied part of the folding top storage area.
- The 1,458 RPO 313 (automatic transmission) quantity was split 1,226 with 230hp engines, 232 with 245hp engines.
- The 5,680 RPO 419 (auxiliary hardtop) quantity included 2,285 in lieu of soft tops at no charge.
- RPO 675 (Positraction) required manual transmission.

## 1961 COLORS

EXTERIOR	QTY	SOFT TOP	WHEELS	INTERIOR
Tuxedo Black	1,340	Bk-W	Black	B-Bk-F-R
Ermine White	3,178	Bk-W	White	B-Bk-F-R
Roman Red	1,794	Bk-W	Red	Bk-R
Sateen Silver	747	Bk-W	Silver	B-Bk-R
Jewel Blue	855	Bk-W	Blue	B-Bk
Fawn Beige	1,363	Bk-W	Beige	Bk-F-R
Honduras Maroon	1,645	Bk-W	Maroon	Bk-F

- Suggested interiors shown; other combinations were possible.
- Interior and exterior colors were not coded to individual cars.
- Number of interiors sold in 1961 are as follows: 4,459 Red; 3,487 Black; 1,662 Fawn; 1,331 Blue.
- Contrasting cover colors were not available in 1961.
- The 3,368 quantity for code 440 two-tone paint (contrasting cove) was split 954 Roman Red/white, 647 Honduras Maroon/white, 429 Tuxedo Black/silver, 419 Jewel Blue/white, 385 Ermine White/silver, 358 Fawn Beige/white, 159 Sateen Silver/white. In 1961, seventeen Corvettes were painted a non-standard color combination, or primer.
- Jewel Blue was available only in 1961.

Abbreviations: B=Blue, Bk=Black, F=Fawn, R=Red, W=White

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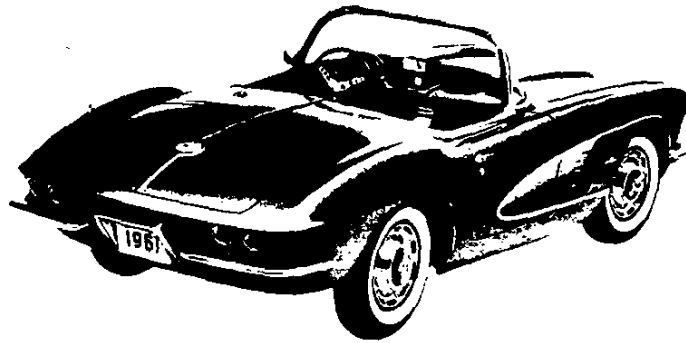
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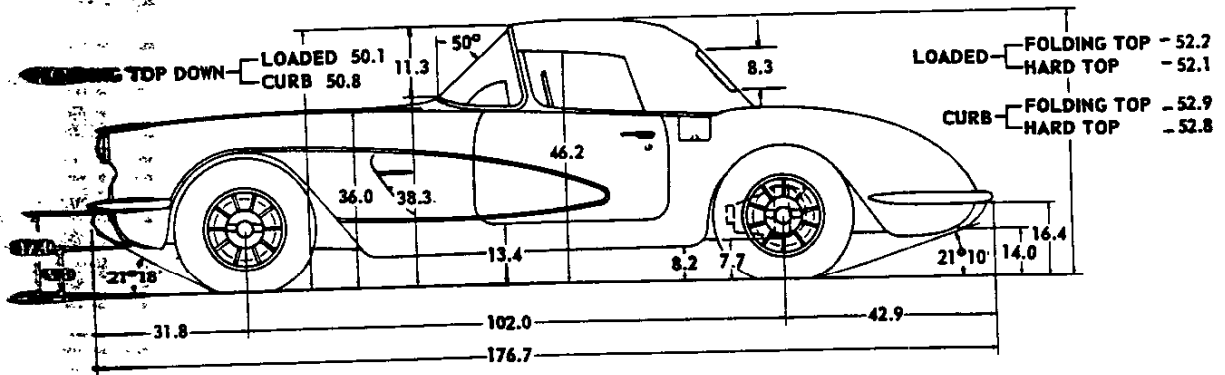
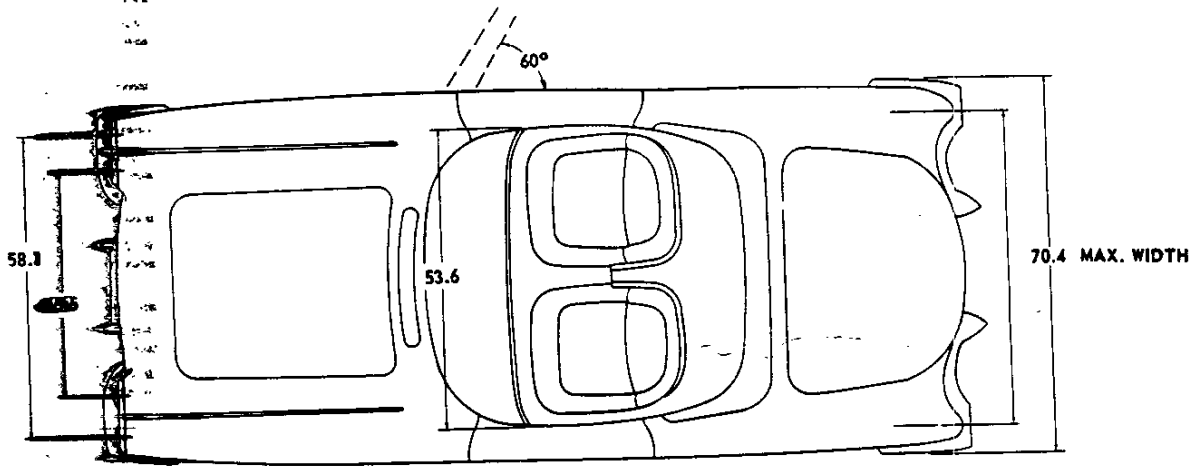
# CORVETTE



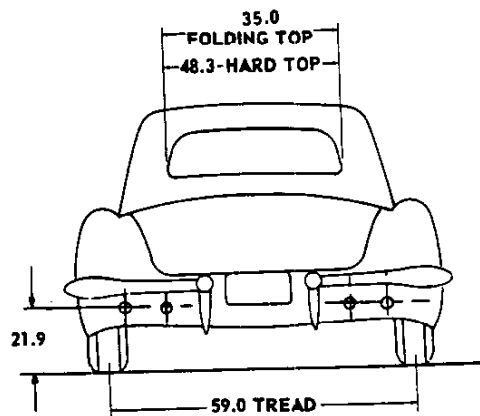
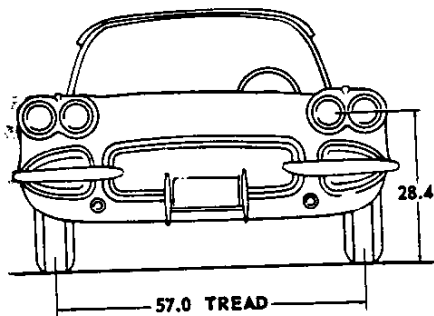
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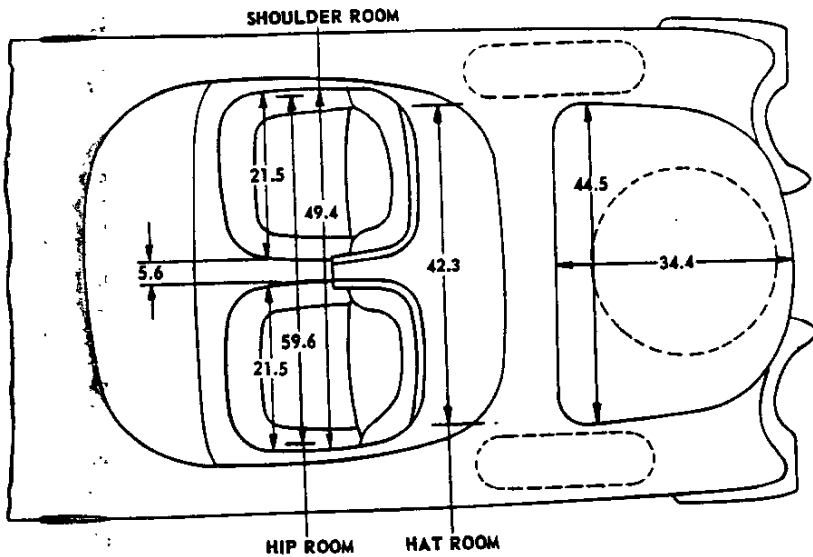
EXTERIOR DIMENSIONS



RAMP ANGLE - 7°47'

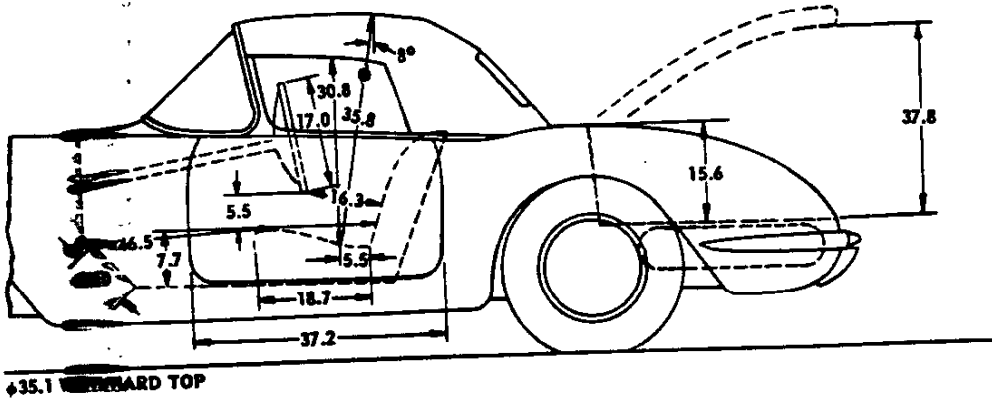


# INTERIOR DIMENSIONS



DRIVE SEAT ADJUSTMENT 4.4  
 SEAT DIMENSIONS SHOWN ARE  
 MEASURED 15" FROM CENTER  
 LINE OF CAR WITH SEAT IN  
 REAR POSITION

• LUGGAGE SET CAPACITY - 5.2 CU. FT.  
 OVERALL TRUNK CAPACITY - 12.1 CU. FT.



• Revised February 1961 October 1960  
 CORVETTE-3

## REGULAR EQUIPMENT

EXTERIOR	
Four Headlights with Painted Bezels	
Parking and Turn Signal Lights	
Twin Tail, Stop, and Turn Signal Lights	
Rear License Lights	
Bright Metal	Parking Light Bezels, Light Guards
	Front Fender Crown Molding
	Grille Frame and Body
	Grille Guards and License Plates
	Front and Rear Bumpers
	Cove Area Reveal Molding
	Windshield Reveal Molding
	Belt Reveal Molding
	Door Glass Frames
	Door Push-Button Handles
	Door Key Locks
	Deck Lid Key Lock
	Tail Light Bezels
	Rear License Frame
	Hardtop Additional Moldings
Drip Cap	
Quarter Panel Reveal	
Rear Panel Reveal	
Hood Nameplate and "V" with Crossed Knives	
Deck Lid Emblem	
Outside Rear View Mirror	
Wheel Disks	
Wheel Disk Ornaments	
Convertible Top	
Nameplate and Horizontal Bars	
Gas Filler Door	

INTERIOR	
Three-Spoke Competition-Type Steering Wheel	
Vinyl Covered Instrument Panel	
160 MPH Speedometer, Odometer	
7000 RPM Tachometer	
Bright Metal	Cove Insert
	Sill Plates and Door Trim Panels
	Step Plates
	Top Header Release Latches
Door Lock Lever	
Fuel, Temperature, Ammeter, Oil Pressure Gauges	
Ignition - Starter Switch	
Cigarette Lighter	
Cowl Vent Lever	
Hood Release Lever	
Rear View Mirror	
Ash Tray	
Electric Clock	
Cockpit Center Console	
Stowage Compartment	
Roll-Up Door Windows	
Twin Reflectors in Side Wall	
Door Armrests	
Glove Box with Key Lock	
Padded Passenger - Assist Bar	
Direction Signal Control	
Individually Adjusted Bucket Seats	
Seat Belts	
Ball-Type Door Handles	
Transmission Shift Lever with Shift Diagram	
Headlight Dimmer Switch	
Windshield Wiper Control Knob	
Horn Button	
Sunshades	
Windshield Washers	
Courtesy Light	
Parking Brake Alarm	

## REGULAR PRODUCTION OPTIONS AND FACTORY OPTIONAL ACCESSORIES

ITEM	NUMBER	ITEM	NUMBER
Axle, limited-slip, all ratios	675	Hardtop, auxiliary	419
Body equipment (service)	565	Heater, air flow	101
Brakes, heavy-duty (sintered)	686	Radio, signal-seeking	102
Brakes, heavy-duty (sintered) R	687	Tires, 6.70 x 15-4 ply (whitewall)	290
Carburetors, two 4-barrel	469	Top, hydraulic folding	473
Carburetors, two 4-barrel (High Perf.)	468	Transmission, 4-speed	685
Folding top equipment	470	Transmission, Powerglide	313
Fuel injection, reg. cam. (iron head)	353	Wheels, 15 x 5.50K	276
Fuel injection, spec. cam. (iron head)	354	Windows, power	426
Fuel injection, reg. cam. (alum. head)	579	Special crankcase ventilation	242
Fuel injection, spec. cam. (alum. head)	582	Muffler, straight through	441

R - Includes special steering adapter.

## EXTERIOR - INTERIOR COLOR COMBINATIONS

EXTERIOR COLOR		INTERIOR TRIM			
Body*, Wheels	Cove Area (Optional)	Black	Red	Fawn	Blue
Tuxedo Black	Sateen Silver	✓	✓	✓	✓
Ermine White	Sateen Silver	✓	✓	✓	✓
Roman Red	Ermine White	✓	✓		
Sateen Silver	Ermine White	✓	✓		✓
Jewel Blue	Ermine White	✓			✓
Fawn Beige	Ermine White	✓	✓	✓	
Honduras Maroon	Ermine White	✓		✓	

\* - Includes hardtop, when used.

Convertible top colors (Black, White) available with any exterior color.

## GENERAL DATA

### VEHICLE SERIAL NUMBER

Example:

Model Year (1961)	Model	Assembly Plant (St. Louis)	Unit Number (3rd unit)
1	0867	S	100003

Thus:

The 3rd model 867 (designated 0867) built at St. Louis would bear serial number 10867S100003

### BODY GLASS •

Windshield ----- Laminated safety plate  
 Side doors ----- Safety solid plate  
 Ruboerized fabric top,  
 Rear window ----- Vinyl plastic  
 Hard Top,  
 Rear window ----- Acrylic plastic (plexiglass)  
 Rear quarter window -- Acrylic plastic (plexiglass)

### REAR AXLE IDENTIFICATION

Type and designation  
 AC -- 3-spd. (3.36 ratio) -- AS - HD brake (3.70)  
 AE -- Powerglide (3.55 ratio) AT- HD brake (4.11)  
 AF -- Limited slip (3.36 ratio) AU- HD brake (4.56)  
 AH -- 4-spd. (3.70 ratio) --- FJ - HD brake (3.70)  
 AN -- Lim'td slip (3.70 ratio) FK - HD brake (LS 3.70)  
 AP -- Lim'td slip (4.11 ratio) FL - HD brake (LS 4.11)  
 AQ -- Lim'td slip (4.56 ratio) FM - HD brake (LS 4.56)

### VEHICLE WEIGHTS\*

Powerglide transmission  
 Shipping ----- 3000 lb.  
 Curb ----- 3135 lb.  
 Loaded ----- 3435 lb.  
 3-speed transmission  
 Shipping ----- 2905 lb.  
 Curb ----- 3035 lb.  
 Loaded ----- 3335 lb.  
 Optional hard top ----- 55 lb.

\* - Curb weight is empty vehicle ready to drive.  
 Shipping weight is curb weight minus gasoline (100 lb.) and water (32 lb.)  
 Loaded weight is curb weight plus 300 lb. (weight of two 150 lb. passengers)

### ENGINE IDENTIFICATION •

Type & designation  
 3 & 4-speed transmission & 4 bbl. carb. ----- CQ  
 3 & 4-spd.trans., two 4 bbl. carb. & spec. cam -- CU  
 3 & 4-spd.trans., and two 4 bbl. carb. ----- CT  
 3 & 4-spd.trans., F.I. & spec. cam (iron head) -- CS  
 3 & 4-spd.trans. & Fuel Injection (iron head) --- CR  
 With two 4 bbl. carb. and Powerglide ----- DJ  
 With Powerglide & 4 bbl. ----- DG  
 3 & 4-spd.trans., & fuel injection (alum. head) - CY  
 3 & 4-spd.trans., 4 F.I. & sp. cam (alum. head) - CZ

## CHASSIS

### FRONT WHEEL ALIGNMENT (Service data)

Camber -----  $0^{\circ} \pm 0^{\circ}30'$   
 Caster -----  $2^{\circ} \pm 0^{\circ}30'$   
 King pin inclination -----  $3^{\circ}30' - 4^{\circ} - 30'$   
 Toe in ----- 0-.12

### FRAME

Make & type - Chevrolet, box girder with "X" member  
 Maximum overall length ----- 139.28  
 Maximum overall width (over side members) -- 43.24  
 Number of crossmembers ----- 3  
 Body mounting points ----- 10  
 Material ----- Hot rolled steel  
 Side member section modulus (inches cubed) --- 1.677  
 Moment of inertia (in<sup>4</sup>) ----- 4.930

### KING PINS

Diameter ----- .8660-.8665  
 Bushings  
 Inside diameter ----- .867-.868  
 Length ----- 1.312

### WHEEL TRAVEL-FRONT •

Jounce ----- 3.33  
 Rebound ----- 3.19

### WHEEL TRAVEL-REAR •

Jounce ----- 3.94  
 Rebound ----- 3.90

### STEERING KNUCKLE

Type ----- Reverse Elliot  
 Spindle diameter:  
 At inner bearing ----- 1.2810-1.2815  
 At outer bearing ----- .7498-.7503  
 Thread size ----- 3/4-20

### FRONT SPRINGS

Make and type ----- Chevrolet, coil  
 Material and gauge --- Chrome alloy steel .547-.550  
 Number of coils ----- Total 9.75; active 7.94  
 Diameter ----- Outside 4.30; pitch 3.752  
 Height ----- Free 13.75; working 9.62@ 1235 lb.  
 Height under curb weight ----- 9.72  
 Capacity at ground ----- 800 lb.  
 Deflection rate  
 At spring ----- 300 lb/in.  
 At wheel ----- 110 lb/in.

### FRONT SHOCK ABSORBERS •

Make and type ----- Delco, direct double acting  
 Mounting ----- Vertically from lower control arm through coil spring to front suspension crossmember  
 Piston diameter and travel ----- 1.00 x 4.68

• - Contains nitrogen-filled envelope in fluid reservoir

## CHASSIS - (Contd.)

### STABILIZER BAR, FRONT

Type ----- Link  
 Material ----- Hot rolled steel  
 Diameter ----- .8125

### REAR SPRINGS

Make ----- Chevrolet  
 Type ----- Semi-elliptic, outrigger mounted  
 Material ----- Alloy steel  
 Size ----- 51.0 x 2.0  
 Number of leaves ----- 4  
 Leaf inserts:  
 Type ----- 3-liners  
 Size ----- 19.8, 31.8, x 46.3 x 1.9 x .11  
 Material ----- Wax impregnated fibre board  
 Mounting insulating type ----- Rubber bushed  
 Spring rate ----- 115 in-lb  
 Design height ----- 605 @ .08 negative camber height

### REAR SHOCK ABSORBERS $\phi$

Make & type ----- Delco, direct double acting  
 Mounting ----- Stem attached to slotted holes in flanged "U" shaped rear crossmember, eye attached at bottom to an anchor bolt on rear spring "U" bolt and shock absorber anchor bolt plate  
 Piston diameter and travel ----- 1.0 x 7.44

### STABILIZER BAR, REAR

Type ----- Link  
 Material ----- Hot rolled steel  
 Diameter ----- .625

### REAR RADIUS RODS

Location ----- Outrigger mounted to top of outer ends of axle, near the brake backing plates, and to frame forward of the axle.  
 Size:  
 Length ----- 18.28  
 Diameter ----- .750  
 Number of rods ----- Two

### DRIVE LINE

Type ----- Hotchkiss drive, one propeller shaft. Torque and thrust taken through rear springs and radius rods.

### REAR AXLE

Type ----- Hypoid  
 Gear ratio and tooth combination  
 Transmission type  
 3-speed ----- 3.36:1, 11 & 37  
 Positraction ----- 3.36:1, 11 & 37  
 4-speed ----- 3.70:1, 10 & 37  
 Positraction ----- 3.70:1, 10 & 37  
 3-speed & 4-speed  
 Positraction ----- 4.11:1, 9 & 37  
 Positraction ----- 4.56:1, 9 & 41  
 Powerglide ----- 3.55:1, 9 & 32

$\phi$  - Contains nitrogen-filled envelope in fluid reservoir

### BRAKES-SERVICE

Type ----- Servo, 4 wheel hydraulic  
 Brake size  
 Front ----- 11 x 2  
 Rear ----- 11 x 1-3/4  
 Brake drums  
 Diameter front & rear ----- 11  
 Total effective area ----- 259 sq. in.  
 Lining sizes (length x width x thickness)  
 Front-primary ----- 9.29 x 2.0 x .175  
 -secondary ----- 11.69 x 2.0 x .175  
 Rear-primary ----- 9.29 x 1.75 x .175  
 -Secondary ----- 11.69 x 1.75 x .175  
 Total lining effective area ----- 157 sq. in.  
 Percent braking effort - Front ----- 58.5%  
 Wheel cylinder bore  
 Front ----- 1.1875  
 Rear ----- 1.000  
 Master cylinder bore ----- 1.000  
 Pedal travel ----- 4.50  
 Shoe clearance adjustment ----- Adjust to light drag and back off seven notches.

### BRAKES-PARKING

Type of control ----- "T" handle pull rods  
 Location of control ----- L.H. of steering column  
 Operate on ----- Rear service brakes

### STEERING

Steering gear ratio ----- 16:1  
 Steering wheel diameter ----- 17.00  
 Turning diameters  
 Right-wall to wall ----- 38.5 ft.  
 Left-wall to wall ----- 39.0 ft.  
 Right-curb to curb ----- 36.5 ft.  
 Left-curb to curb ----- 37.0 ft.  
 Overall steering ratio ----- 21.0:1

### TACHOMETER

Make ----- AC  
 Model ----- W  
 Type ----- Mechanical  
 Driven Off  
 Fuel Injection (special camshaft) ----- Distributor  
 All others ----- Generator

### WHEELS

Rim Size & Flange Type ----- 15 x 5K  
 Attachment to hub -- 5-7/16-20 studs; 4.75 diameter

### TIRES

Size ----- 6.70 x 15-4 pr  
 Type ----- Rayon  
 Revolutions/mile @ 30 MPH ----- 760  
 Sidewall Color  
 Regular ----- Black  
 Optional ----- White  
 Inflation pressure (front and rear) ----- 24 lb

**HEAVY DUTY BRAKE EQUIPMENT-RPO 686-RPO 687**

**BRAKES - SERVICE**

Material ----- Sintered Iron  
 Segments Per Shoe:  
 Primary - Front and Rear ----- Six  
 Secondary ----- Front, 12; Rear, 10  
 Lining Size:  
 Front:  
 Primary ----- 1.64 x 1.25 x .205  
 Secondary ----- 1.64 x 1.25 x .325  
 Rear:  
 Primary ----- 2.0 x .875 x .205  
 Secondary ----- 2.0 x .875 x .325  
 Drums:  
 Front and Rear ----- Cooling vanes  
 cast on rim, air scoop on backing  
 plate, fans between drum and hub  
 Wheel Cylinder Bore:  
 Front ----- 1.125  
 Rear ----- .875  
 Method of Attachment ----- Riveted  
 Shoe Clearance Adjustment ----- Adjust to  
 light drag and back off 17 notches  
 Gross Lining Area (sq in) ----- 129.8  
 Effective Area (sq in) ----- 124.0  
 Braking effort - Front ----- 62%

**HEAVY-DUTY BRAKES AND  
 SPECIAL STEERING  
 RPO 687**

**STEERING (Special)**

Overall Ratio ----- 16.3:1  
 Number of Wheel Turns ----- 3.25

**HEAVY-DUTY BRAKES  
 RPO 686**

**BRAKES - SERVICE •**

Material ----- Sintered Iron  
 Segments Per Shoe: (Front and Rear)  
 Primary ----- Six  
 Secondary ----- Ten  
 Lining Size:  
 Front:  
 Primary ----- 1.64 x 1.37 x .210  
 Secondary ----- 1.64 x 1.37 x .330  
 Rear:  
 Primary ----- 2.0 x 1.0 x .210  
 Secondary ----- 2.0 x 1.0 x .330  
 Method of Attachment ----- Welded  
 Shoe Clearance Adjustment ----- Adjust  
 to light drag and back off 12 notches  
 Gross Lining Area (sq in) ----- 145.0  
 Effective Area (sq in) ----- 145.0  
 Braking effort - Front ----- 58.5%

**LIMITED SLIP AXLES  
 RPO 675**

<u>Ratios</u>	<u>Gear Combinations</u>
3.36:1 -----	11 & 37
3.70:1 -----	10 & 37
4.11:1 -----	9 & 37
4.56:1 -----	9 & 41

## POWER TEAM COMBINATIONS

ENGINE	CARBURETION	TRANSMISSION	AXLE RATIO	POSITION AXLE RATIO
283 <del>INCH</del> V-8	4-BARREL	3-SPEED.....	3.36:1.....	3.36, 4.11, 4.56
230 <del>POWER</del>		4-SPEED.....	3.70:1.....	3.70, 4.11, 4.56
		POWERGLIDE....	3.55:1	
-----				
283 <del>INCH</del> V-8	2 X 4-BARREL	3-SPEED.....	3.36:1.....	3.36, 4.11, 4.56
245 <del>POWER RPO 469</del>		4-SPEED.....	3.70:1.....	3.70, 4.11, 4.56
		POWERGLIDE....	3.55:1	
-----				
283 <del>INCH</del> V-8	2 X 4-BARREL	3-SPEED.....	3.36:1.....	3.36, 4.11, 4.56
270 HORSEPOWER RPO 468	SPECIAL CAMSHAFT	4-SPEED.....	3.70:1.....	3.70, 4.11, 4.56
-----				
283 <del>INCH</del> V-8	FUEL INJECTION	3-SPEED.....	3.36:1.....	3.36, 4.11, 4.56
270 <del>POWER RPO 353</del>		4-SPEED.....	3.70:1.....	3.70, 4.11, 4.56
-----				
283 <del>INCH</del> V-8	FUEL INJECTION	3-SPEED.....	3.36:1.....	3.36, 4.11, 4.56
315 <del>POWER RPO 354</del>	SPECIAL CAMSHAFT	4-SPEED.....	3.70:1.....	3.70, 4.11, 4.56

### MULTIPLICATION FACTORS

WITH MANUAL TRANSMISSIONS								
ENGINE	TRANSMISSION	TOTAL GEAR REDUCTION*					AXLE RATIO	MAX AXLE TORQUE LOW GEAR-Lb Ft $\emptyset$
		1st	2nd	3rd	4th	Rev.		
230 HP V-8 & 245 HP V-8	3-speed	8.30	5.14	3.36		9.41	3.36	1905
	4-speed	8.14	6.14	4.85	3.70	8.36	3.70	1868
	3-speed	10.15	6.29	4.11		11.51	4.11	2330
	4-speed	9.04	6.82	5.38	4.11	9.29		2075
	3-speed	11.26	6.98	4.56		12.77	4.56	2585
	4-speed	10.03	7.57	5.97	4.56	10.31		2302
270 HP V-8	3-speed	8.30	5.14	3.36		9.41	3.36	1799
	4-speed	8.14	6.14	4.85	3.70	8.36	3.70	1765
	3-speed	10.15	6.29	4.11		11.51	4.11	2201
	4-speed	9.04	6.28	5.38	4.11	9.29		1959
	3-speed	11.26	6.98	4.56		12.77	4.56	2441
	4-speed	10.03	7.57	5.97	4.56	10.31		2174
275 HP V-8 & 315 HP V-8	3-speed	8.30	5.14	3.36		9.41	3.36	
	4-speed	8.14	6.14	4.85	3.70	8.36	3.70	
	3-speed	10.15	6.29	4.11		11.51	4.11	
	4-speed	9.04	6.82	5.38	4.11	9.29		
	3-speed	11.26	6.98	4.56		12.77	4.56	
	4-speed	10.03	7.57	5.97	4.56	10.31		
WITH AUTOMATIC TRANSMISSIONS								
ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE * MULTIPLICATION		AXLE RATIO			
230 HP V-8 & 245 HP V-8 (Regular cam)	Powerglide	Drive	13.56:1-3.55:1		3.55:1			
		Low & Rev	13.56:1-6.46:1					

$\emptyset$  - Gear reduction x maximum net engine torque x efficiency factor (0.90 indirect drive, 0.85 all others).  
 \* - Axle ratio x transmission ratio

• Revised February 1961    October 1960  
**CORVETTE -9**



# CORVETTE 283 CUBIC IN. 8 ENGINE

## GENERAL DATA

Engine		3-Speed	4-Speed	Powerglide	
Piston displacement (Cu In)		283			
Type		Valve-in-Head			
Number of cylinders		8			
Bore and stroke		3.875 x 3.000			
Compression ratio		9.5:1*			
Taxable (SAE) horsepower		48			
Idling speed (RPM)		475 in neutral	475 in drive		
Compression press (PSI)@ cranking speed, engine hot		160**			
Dry Weight (Lb)	Engine & Clutch only	4-barrel	600	560	
		2 x 4-barrel	585	545	
		Fuel Injection	605		
	Engine, Clutch & Transmission	4-barrel	670	677	785
		2 x 4-barrel	655	665	775
		Fuel Injection	673	685	
Lubrication		Full pressure			
Fan mounting		Three point mounting; two front and one rear; compression type			
Measurements	Fan to rear of clutch housing		36.57	31.66	
	Front of cylinder block to rear of clutch housing		29.57	24.66	
	Length of cylinder block		23.28		
	Top air cleaner to main oil pan		29.54		
	Exhaust manifold to generator (width)		26.72		

\* - 11.0:1 with all Fuel Injection engines  
 \*\* - 40 PSI for special camshaft equipped engines

## STANDARDISED MAXIMUM ENGINE PERFORMANCE

Carburetor		4-barrel	Dual 4-barrel		Fuel injection	
		Production	RPO 469	RPO 468	RPO 353	RPO 354
Camshaft		Standard	Special	Standard	Special	
Brake	Gross	230@ 4800 RPM	245@ 5000 RPM	270@ 6000 RPM	275@ 5200 RPM	315@ 6200 RPM
Horsepower	Net	195@ 4600 RPM	215@ 4800 RPM	230@ 6000 RPM		
Torque (Lb-Ft)	Gross	300@ 3000 RPM	300@ 3800 RPM	285@ 4200 RPM	305@ 4400 RPM	295@ 47-5100 RPM
	Net	270@ 2800 RPM	270@ 3400 RPM	255@ 3800 RPM		

## ENGINE SPEED AND PISTON TRAVEL

Transmission		3-Speed close ratio			Powerglide (RPO 313) *
Rear axle ratio		3.36	4.11	4.56	3.55:1
Tire size		6.70 x 15-4 pr			
Crankshaft revolutions per mile		2553.6	3123.6	3465.6	2698.0
Crankshaft RPM @ 1 MPH	Low	105.1	128.6	142.7	81.9
	Reverse	119.2	145.8	161.7	
	Second	65.1	97.7	88.4	
	Third	42.6	52.0	57.6	45.0
Piston travel (Ft/mile)		1276.8	1561.8	1732.8	1349.0
Transmission		4-Speed close ratio (RPO 685)			
Rear axle ratio		3.70:1	4.11:1	4.56:1	
Tire size		6.70 x 15-4 pr			
Crankshaft revolutions per mile		2812.0	3123.6	3465.6	
Crankshaft RPM @ 1 MPH	Low	103.0	114.6	127.2	
	Reverse	105.8	117.7	130.6	
	Second	77.7	86.5	96.0	
	Third	61.3	68.3	75.7	
	Fourth	46.8	52.1	57.8	
Piston travel (Ft/mile)		1406.0	1561.8	1732.8	

\* - Data computed assuming zero slippage in torque converter

**ADVERTISED CAR PERFORMANCE FACTORS**  
(Model 867)

ENGINE	Carburetor	4-barrel	Dual 4-barrel	Fuel Injection	
	Camshaft	Standard	Special	Standard	Special

**WITH**  
3-Speed Transmission

Performance weight (pounds)	3335	3320	3340		
Pounds per gross horsepower	14.50	13.55	12.30	12.15	10.60
Pounds per Cu In displacement	11.78	11.73			11.80
Gross horsepower per Cu In displacement	.813	.866	.954	.972	1.113
Power displacement (Cu Ft/mile)			209.1		
Displacement factor (Cu Ft/ton mile)	125.4	126.0			125.2

**WITH**  
4-Speed Transmission

Performance weight (pounds)	3350	3335	3355		
Pounds per gross horsepower	14.57	13.61	12.35	12.20	10.65
Pounds per Cu In displacement	11.84	11.78			11.86
Gross horsepower per Cu In displacement	.813	.866	.954	.972	1.113
Power displacement (Cu Ft/mile)			230.3		
Displacement factor (Cu Ft/ton mile)	137.5	138.1			137.3

**WITH**  
Powerglide Transmission \*

Performance weight (pounds)	3435	3420			
Pounds per gross horsepower	14.93	13.96			
Pounds per Cu In displacement	12.14	12.09			
Gross horsepower per Cu In displacement	.813	.866			
Power displacement (Cu Ft/mile)		220.9			
Displacement factor (Cu Ft/ton mile)	128.6	129.2			

\* - Data computed assuming zero slippage in torque converter.

**GLOSSARY**

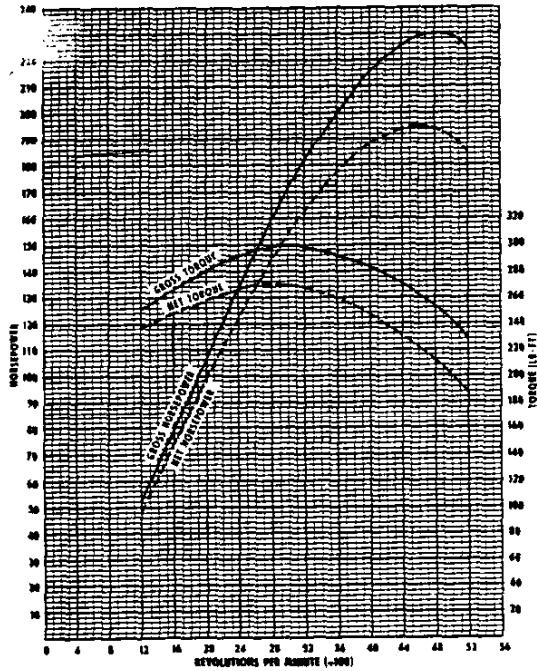
Performance Weight = Curb Weight plus 300 Lb  
(weight of two 150 Lb passengers)

Power Displacement =  $\frac{\text{Crankshaft Revs/Mi} \times \text{Piston Displacement}}{2 \times 1728}$

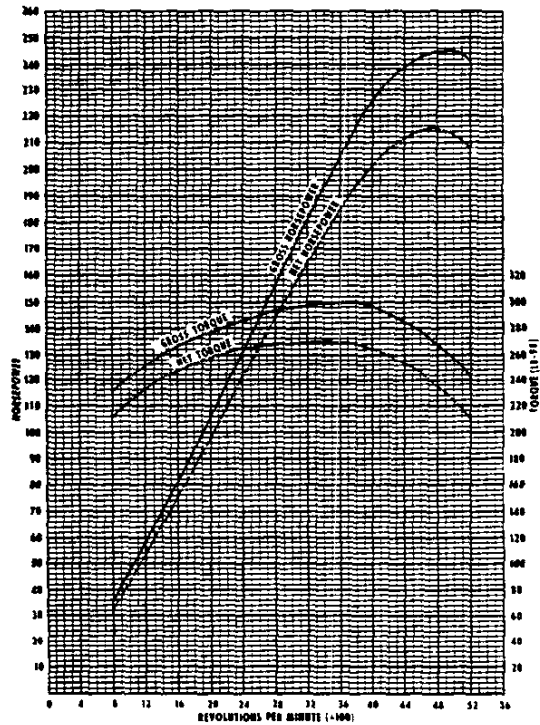
Displacement Factor =  $\frac{\text{Power Displacement}}{\text{Performance Wt (tons)}}$

# CORVETTE 283 CUBIC INCH V-8 ENGINE - Cont'd.

**230 HORSEPOWER V-8 ENGINE**  
4-barrel Carburetor



**245 HORSEPOWER V-8 ENGINE**  
Dual 4-barrel Carburetors



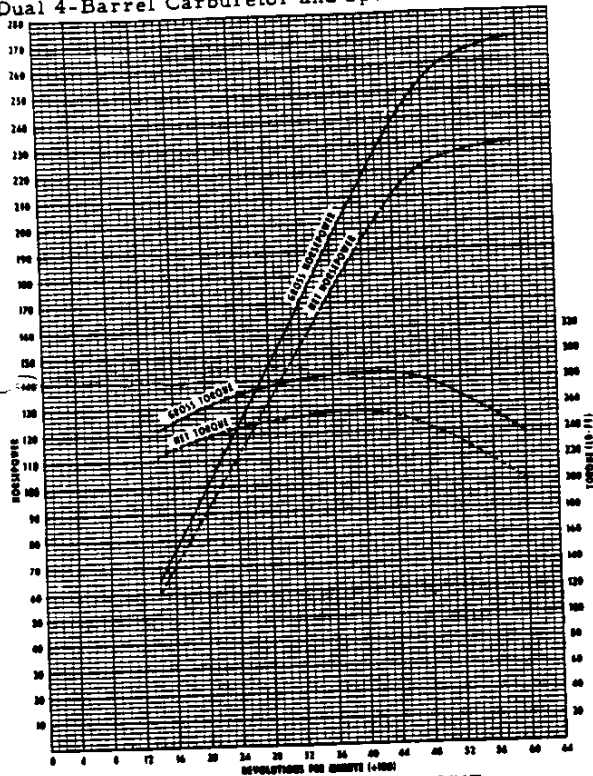
The engine performance curves represent full throttle performance as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and standard temperature of 60°F.

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

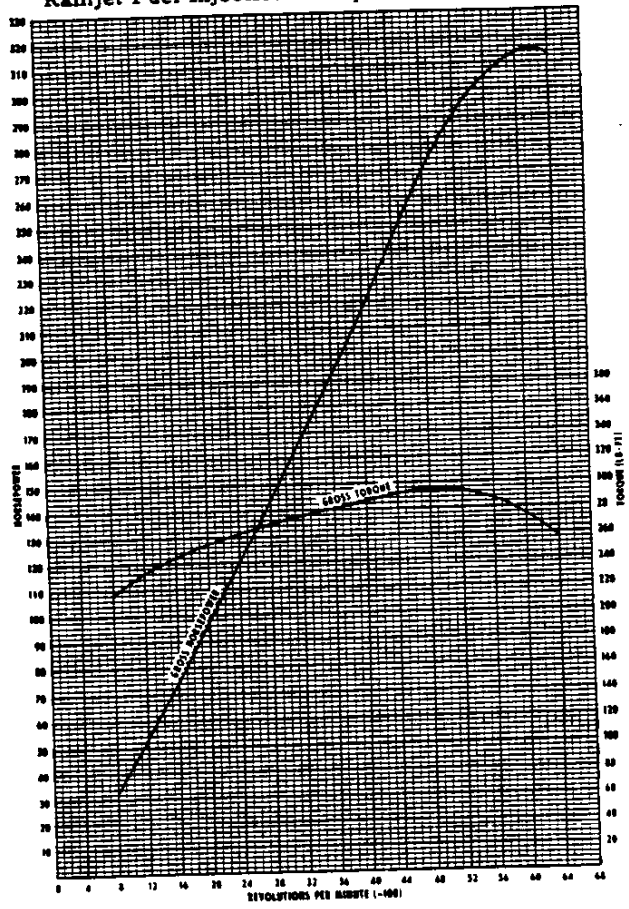
system, no fan, generator not charging, optimum spark advance, and optimum fuel setting.

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

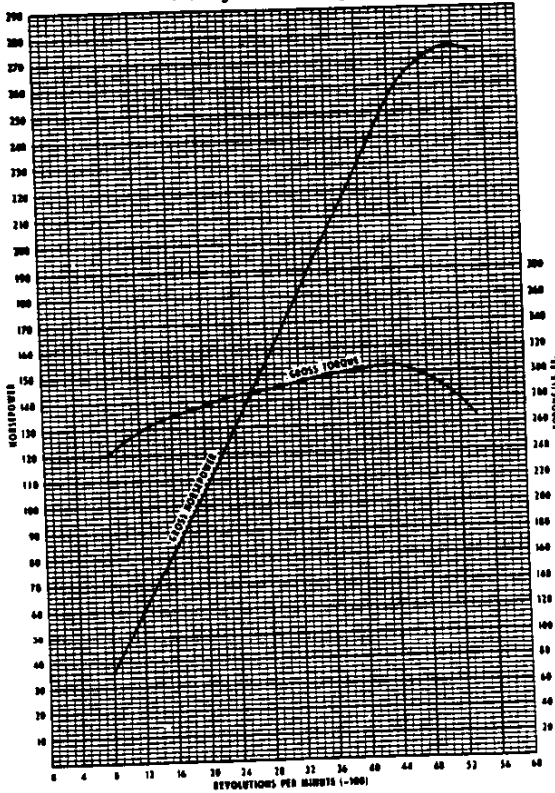
**270 HORSEPOWER V-8 ENGINE**  
Dual 4-Barrel Carburetor and Special Camshaft



**315 HORSEPOWER V-8 ENGINE**  
Ramjet Fuel Injection and Special Camshaft



**275 HORSEPOWER V-8 ENGINE**  
Ramjet Fuel Injection



1961 CHEVROLET PASSENGER CAR

# CORVETTE 283 CUBIC INCH V-8 ENGINE - Cont'd.

## 4-BARREL CARBURETOR 230 HORSEPOWER

Same as Passenger Car Super Turbo-Fire V-8 engine except for the following differences

### COOLING FAN

Type ----- Thermal modulated  
 Full ~~Power~~ ----- Below 140°F and 3200 rpm  
 Maximum Speed ----- 3200 rpm  
 Fan  
 Diameter ----- 17.12  
 Blades ----- 5

### FAN AND GENERATOR BELT

Pitch Line Length ----- 55.40

### RADIATOR CAP

Type ----- Pressure  
 Valve Opens at ----- 13 PSI

### GENERATOR

Model ----- 1102043

### IGNITION COIL

Model ----- 1115091

### CLUTCH HOUSING

Material ----- Aluminum

### CLUTCH

Type ----- Semi-centrifugal, coil spring  
 Number of Coil Springs ----- 9  
 Spring Pressure (Lb) ----- 1620 initial  
 Drive ----- Lug  
 OD (Inches) ----- 10.0 x 6.5  
 Lining Area (Sq In) ----- 90.72  
 Rated Torque Capacity (Lb-Ft) ----- 326

\* - Prevents lowering soft top into well.

### OIL PAN CAPACITY (quarts)

Oil Filter ----- 5.0

### AIR CLEANER

Type ----- Oil wetted  
 Filter Element ----- Foam plastic

### GAS TANK

Capacity (gallons) ----- 16.4  
 Filler Location ----- In body left side, to rear of driver's door.

### GAS TANK (LPO 1625)

Application ----- Hardtop models only\*  
 Material ----- Fiberglass  
 Capacity (gallons) ----- 24.0

### EXHAUST SYSTEM

Type ----- Dual, diffusion and resonance, reverse flow.

### COOLING SYSTEM

Radiator  
 Make ----- Harrison  
 Type ----- Cross flow  
 Material ----- Aluminum  
 Core constant ----- .18 x .556  
 Core thickness ----- 2.88  
 Frontal area (sq in) ----- 315.4  
 Capacity (quarts)  
 Without heater ----- 15.5  
 With heater ----- 16.5

**DUAL 4-BARREL CARBURETOR  
245 HORSEPOWER  
270 HORSEPOWER (Special Cam)**

Same as 220 horsepower Corvette Engine except for the following differences

**MAIN BEARINGS (special camshaft)**  
Material #2-4 ..... Premium, aluminum

**CONNECTING ROD BEARINGS (special camshaft)**  
Material ..... Premium, aluminum

**CAMSHAFT, SPECIAL (special)**  
Ramp, Inlet Opening and closing --- .0067, 18° long  
Ramp, Exhaust Opening and closing --- .0107, 29° long  
Tappet Lift, Inlet ..... .2625  
Exhaust ..... .2665  
Valve Lift, Inlet ..... .39375  
Exhaust ..... .39975  
Valve Lift, Inlet (special) ..... .012  
Exhaust ..... .018  
Timing Diagram Data  
Inlet Opens ..... 35°BTC  
Closes ..... 72°ABC  
Exhaust Opens ..... 76°BEC  
Closes ..... 31°ATC

**VALVES (special camshaft)**  
Inlet Overall length ..... 4.870-4.890  
Exhaust Overall length ..... 4.891-4.911

**VALVE LIFTERS (special camshaft)**  
Type ..... Mechanical

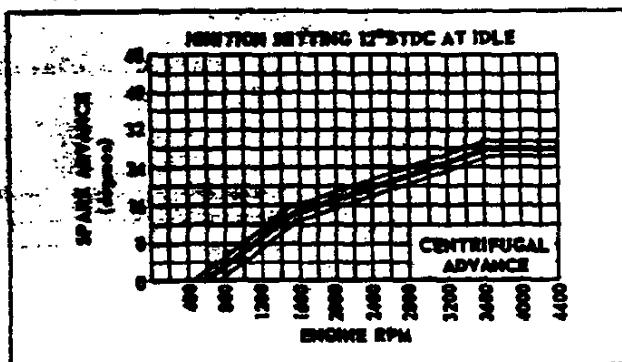
**OIL CONTROL RINGS (special camshaft)**  
Material ..... Cast alloy iron  
Width ..... .1860-.1865  
Gap ..... .010-.020  
Wall thickness ..... .152-.158

**CARBURETOR**  
Make ..... Carter  
Type ..... 4-barrel, downdraft  
Model  
Regular camshaft  
Front ..... 3744002  
Rear ..... 3744004  
Special camshaft  
Front ..... 3741089  
Rear ..... 3741090  
Venturi ID  
Primary ..... 1.13  
Secondary ..... 0.94  
Throttle Bore ..... 1.31  
SAE Flange Siss ..... 1.25  
Stud Centers ..... 5.62 x 4.25

**INLET MANIFOLD**  
Material ..... Aluminum

**IGNITION TIMING**  
Crankshaft Degree (initial setting) ..... 12°BTC

**DISTRIBUTOR**  
Make ..... Delco-Remy  
Model ..... 1110891  
Breaker Points ..... Dual  
Cam Angle (per breaker) ..... 29±1°  
Total Cam Angle (both breakers) ..... 33±1°  
Centrifugal Spark Adv Begins ..... 600 RPM  
Max degrees @ RPM ..... 28 @ 3700  
Vacuum Advance ..... None



# CORVETTE 283 CUBIC INCH V-8 ENGINE - Cont'd.

## FUEL INJECTION 275 HORSEPOWER 315 HORSEPOWER (Special Cam)

230 horsepower Corvette Engine except for the following differences

### CYLINDER HEADS

Material ----- Cast iron

### MAIN BEARINGS (special cam)

Material, #1-4 ----- Premium, aluminum

### CONNECTING RODS BEARINGS (special cam)

Material ----- Premium, aluminum

### VALVE MECHANISM (special cam)

Type ----- Mechanical

Valve Lash, Inlet ----- .012

Exhaust ----- .018

### VALVES (special cam) \*

Inlet, Overall Length ----- 4.870-4.890

• Overall Head Diameter ----- 1.935-1.945

Lift ----- .39375

Exhaust, Overall Length ----- 4.891-4.911

Overall Head Diameter ----- 1.495-1.505

Lift ----- .39975

### TIMING DIAGRAM DATA (special cam)

Inlet Valve Opens - BTC ----- 35°

Closes - ABC ----- 72°

Exhaust Valve Opens - BTC ----- 76°

Closes - ATC ----- 31°

Inlet Ramp ----- .0067, 18°

Exhaust Ramp ----- .0107, 29°

Tappet Lift, Inlet ----- .2625

Exhaust ----- .2665

### PISTONS

Type, Head ----- Modified dome, notched

Skirt Clearance ----- .0016-.0020

Weight (oz.) ----- 21.16

### COMPRESSION RINGS (special cam)

Upper Coating ----- .004-.007 chrome plating

Width ----- .0770-.0780

### OIL CONTROL RINGS

Material ----- Cast alloy iron

Width ----- .1860-.1865

Gap ----- .010-.020

Wall Thickness ----- .152-.158

### AIR CLEANER

Location ----- On left fender skirt

Air Intake Duct ----- Channel air from air cleaner to air meter adapter

### FUEL INJECTION SYSTEM

Make ----- Rochester Products

Type ----- Constant flow

Model ----- 7017310

### FUEL INJECTION SYSTEM (special camshaft)

Model ----- 7017320

### AIR INDUCTION

Air Meter Location ----- Left side of engine

Plenum Chamber Location ----- Integral with intake manifold

Ram Pipes, No of ----- Eight

Location ----- Integral with intake manifold

Length (inches) ----- 12

### AIR/FUEL RATIO CONTROL

Type ----- Vacuum sensitive diaphragm

Location ----- On fuel meter assembly

### FUEL METER PUMP

Type ----- Gear

Drive ----- Gear driven by flexible shaft from distributor

### INJECTION NOZZLES

Number ----- Eight

Material ----- Brass

Location ----- On inlet manifold above intake ports

Fuel Orifice Size ----- .0118

Insulation ----- Bakelite block

### AUTOMATIC ENGINE STOP

Type ----- Electric, time-temperature

Location ----- On air meter assembly

Current Draw ----- 1 amp @ 70°F

### INLET MANIFOLD

Type ----- One-piece construction

Material ----- Cast aluminum

### INLET MANIFOLD ADAPTER

Material ----- Cast aluminum

### FUEL FILTER

Make ----- AC

Model ----- GF-43

Element ----- Paper

Location ----- Rear of fuel meter housing

\* - Complete head and face have .0002-.0010 aluminized coating

October 1960 • Revised February 1961

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1961 CHEVROLET PASSENGER CAR

FUEL INJECTION-Continued

RADIATOR HOSE

Inlet, Type ----- Compound curve

FAN AND GENERATOR BELT

• Pitch Line Length ----- 55.50

• GENERATOR (Special Cam)

Model ----- 1102268  
 Pulley Size (PD) ----- 4.00  
 Generator RPM/MPH ----- Approx. 78  
 Max Generator Output - Gen RPM (Max) ----- 3030  
 Engine RPM @ Max Generator Output ----- 1825  
 Ratio (Generator to Engine RPM) ----- 1.66:1  
 Rating (AMP) ----- 35

COIL

Model ----- 1115107

IGNITION DISTRIBUTOR

Model ----- 1110915  
 Vacuum Advance, Maximum ----- 24° @ 13.5" Hg

IGNITION DISTRIBUTOR (special camshaft)

Model ----- 1110914  
 Centrifugal Spark Advance (begins-rpm) ----- 1000  
 Maximum degrees @ rpm ----- 22 @ 6000  
 Vacuum Advance ----- None  
 Breakers, Type ----- Dual  
 Cam Angle (per breaker) ----- 29±1°  
 Total Cam Angle (both breakers) ----- 33±1°

VOLTAGE AND CURRENT REGULATOR (special cam)

Model ----- 1119002  
 Amperes ----- 33-37

IGNITION TIMING (regular camshaft)

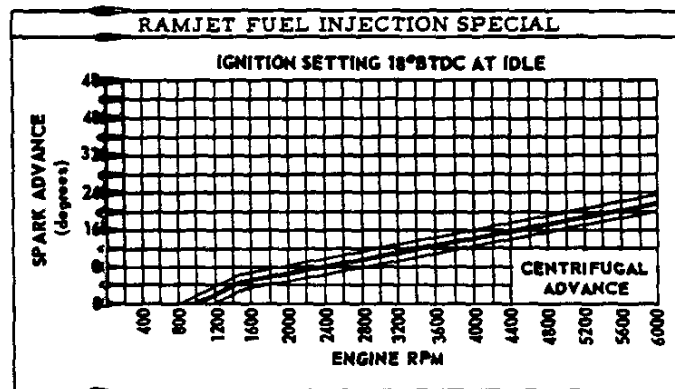
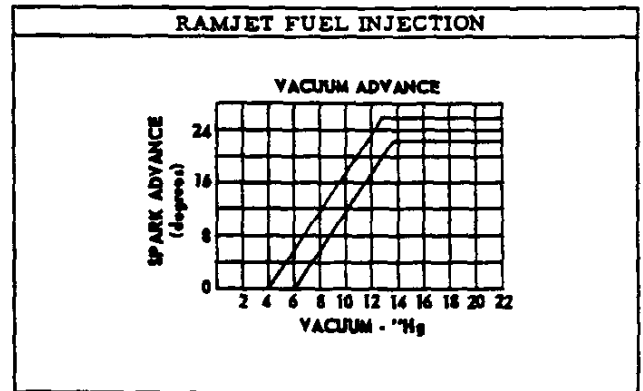
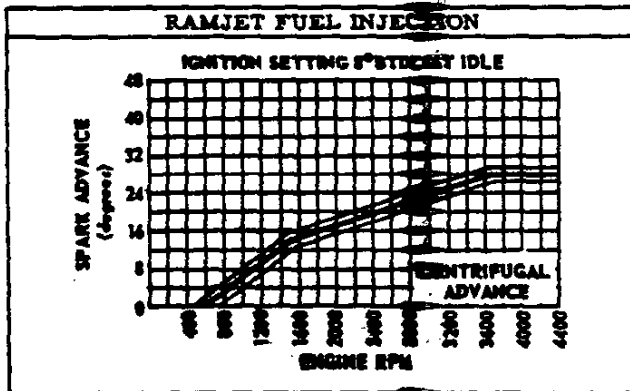
Crankshaft Degrees (initial setting) ----- 4° BTC

IGNITION TIMING (special camshaft)

Crankshaft Degrees (initial setting) ----- 18° BTC

SPARK PLUGS

Model ----- 44-FF  
 Gap ----- .035



• Revised February 1961 October 1960



# TRANSMISSIONS

## 3-SPEED (STANDARD)

3-speed is same as passenger car with 348 cu in V-8 engine shown in Power Train Section page 41 with following exceptions:

SHIFT LEVER ----- Floor mounted

### SPEEDOMETER GEAR TEETH

Drive ----- 8  
Driven ----- 20

## 4-SPEED (RPO 685)

4-speed is same as passenger car shown in Power Train Section page 41 with following exceptions:

### GEAR RATIOS

First ----- 2.20:1  
Second ----- 1.66:1  
Third ----- 1.31:1  
Fourth ----- 1.00:1  
Reverse ----- 2.26:1

### REVERSE INHIBITOR

Type ----- Positive, manually controlled  
Operation ----- Lift "T" handle allowing selector lever to enter reverse gate.

### SPEEDOMETER GEAR TEETH

Drive ----- 8  
Driven ----- 22

## POWERGLIDE (RPO 313)\*

Powerglide is same as high performance unit shown in passenger car Power Train Section page 44 with following exceptions:

SELECTOR LEVER ----- Floor mounted

### SPEEDOMETER GEAR TEETH

Drive ----- 8  
Driven ----- 21

\* - Used for 4-barrel and 2 x 4-barrel engines with regular camshaft only.

## AMA Specifications – Passenger Car

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 below. This uniform specification form was developed by the automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

<b>MANUFACTURER</b> Chevrolet Motor Division General Motors Corporation	<b>CAR NAME</b> CORVETTE	
<b>MAILING ADDRESS</b> Chevrolet Engineering Center Box 246, North End Station Detroit 2, Mich.	<b>MODEL YEAR</b> 1961	<b>ISSUED:</b> 10-7-60 <b>REVISED (a)</b>

**NOTES**

1. Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
2. UNLESS OTHERWISE INDICATED:
  - a. Specifications apply to the standard model without optional equipment. Significant deviations are noted.
  - b. Specifications apply basically to 4-door sedan or equivalent.
  - c. Nominal design dimensions are used throughout these specifications.

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<b>BODY—TYPES AND STYLE NAMES—</b>	Body type, number of passenger & style names; use manufacturer's code for series & body style.
Model 867	2- door convertible, 2- passenger
ORIGINAL COPY	

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# AMA Specifications — Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED(6)

## GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page(s)	CORVETTE 867
Wheelbase (L-101)	2	102.0
Tread	Front (4-504)	57.0
	Rear (4-505)	59.0
Maximum Overall Dimensions	Length (4-503)	176.7
	Width (4-503)	70.4
	Height (4-501)	52.2 (Hardtop 52.1)
Transmission (Specify trade name - opt., not available)	Manual	3-speed (Standard); 4-speed (Optional)
	Overdrive	Name
	Automatic	Powerglide - High performance (Optional)
Axle ratio	Manual	3-speed 3.38:1; 4-speed 3.70:1
	Overdrive	Name
	Automatic	3.55:1
Tire size	416	6.70 x 15 - 4 ply
Engine	Type, cyl., val.	90° V-8, OHV
	Fuel system (Carb.)	Carburetor
	Bore x stroke	3.875 x 3.00
	Displacement, cu. in.	283.0
	Static compression ratio	9.5:1
	Max. hp at engine rpm	230 @ 4800
	Max. torque at rpm	300 @ 3000

# AMA Specifications—Passenger Car

MAKE OF CAR		CHEVROLET		MODEL YEAR		1961		DATE ISSUED		10-7-60		REVISED (a)	
MOD.		CORVETTE		4-barrel		Dual 4-barrel		Reg Cam		Spec Cam		Fuel Injection	
HORSEPOWER		230 HP		245 HP		270 HP		275 HP		275 HP		315 HP	
ENGINE		GENERAL											
Type	Cyls., valve arr.			90° V-8, OHV									
Bore	Stroke (nominal)			3.875 x 3.00									
Pist	Placement, cu. in.			283.0									
Bar	Length (C/L to C/R)			4.4									
N (fir bar)	L. Bank			1-3-5-7									
	R. Bank			2-4-6-8									
Fi	Order			1-8-4-3-6-5-7-2									
C-	Ratio (nominal)			9.5:1				11.0:1					
Cv	Cylinder Material			Cast alloy iron									
C	Sleeve-Wet, or none			None									
No. of main points	Front			Two									
	Rear			One									
Fi	Installation angle			1°									
1	Dia. 2 x No. T-9			48.0									
1	Diameter			230 @		245 @		270 @		275 @		315 @	
	max. bhp* RPM			4800		5000		6000		5200		6200	
1	max. torque*			300 @		300 @		285 @		305 @		295 @	
	RPM			3000		3800		4200		4400		47-5100	
Recommended fuel				Premium									
1	Grade (spec.)			475 (a)		600		475		600			
	Manual or drive			Manual		Automatic							

## ENGINE PISTONS

Material	Cast aluminum alloy		
Description and finish	Flat head, slipper skirt autothermic having machined relief for valve clearance (b)		
V (piston only)			

\* bhp (brake horsepower) and max. torque corrected as defined by SAE Engine Test Code. (Continued) Form Rev. 6-60

- (a) - 450 ~~HP~~ (Powerglide) in drive position
- (b) - Modified dome having machined relief for valve clearance with fuel injection

# AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED (\*)

## POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first)	
	Displ. cu. in.	Cylinder	Compr. Ratio	BHP @ RPM	Torque @ RPM			
Corvette 869	283	4-bbl	9.5:1	230@ 4800	300@ 3000	3-speed 4-speed Powerglide	3.36:1 (a) 3.70:1 (a) 3.55:1 (b)	
		2nd bbl		245@ 5000	300@ 3800	3-speed 4-speed Powerglide	3.36:1 (a) 3.70:1 (a) 3.55:1 (b)	
		2nd - bbl (Spec Cam)		270@ 6000	285@ 4200	3-speed 4-speed	3.36:1 (a) 3.70:1 (a)	
		Fuel Inject- ion		11.0:1	275@ 5200	305@ 4400	3-speed 4-speed	3.36:1 (a) 3.70:1 (a)
		Fuel Inject- ion (Spec Cam)		11.0:1	315@ 6200	295@ 5100	3-speed 4-speed	3.36:1 (a) 3.70:1 (a)

(a) - Limited slip (positraction) axle-ratios, 3.36, 4.11, & 4.56:1 available with 3-speed; 3.70, 4.11, 4.56:1 available with 4-speed transmission

(b) - Limited slip (positraction) not available with Powerglide

1. The first part of the document is a list of names and addresses of the members of the committee. The names are listed in alphabetical order, and the addresses are listed below each name. The list includes the names of the members of the committee, the names of the members of the sub-committee, and the names of the members of the working group. The addresses are listed in the same order as the names.

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# AMA Specifications – Passenger Car

<b>MAKE OF CAR</b> CHEVROLET		<b>MODEL YEAR</b> 1961		<b>DATE: ISSUED</b> 10-7-60		<b>REVISED</b>	
<b>MODEL</b> Corvette		4-barrel		2 x 4-barrel		Fuel Injection	
				Reg cam	Spec. cam	Reg. cam	Spec. cam

## ENGINE PISTONS (Cont.)

<b>Clearance (limits)</b>	Top land	.035-.040	
	Skirt	Top	.0006-.0010
		Bottom	.0016-.0020
<b>Ring groove depth</b>	No. 1 ring	.2153-.2218	
	No. 2 ring	.2153-.2218	
	No. 3 ring	.2093-.2158	
	No. 4 ring	None	

## ENGINE-RINGS

<b>Function (top to bottom)</b>	No. 1, oil or comp.	Compression	
	No. 2, oil or comp.	Compression	
	No. 3, oil or comp.	Oil control	
	No. 4, oil or comp.	None	
<b>Compression</b>	Description - material, type, coating, etc.	Inside bevel, cast alloy iron, chrome plated OD	
	Width	.0775-.0780 upper; .0770-.0780 lower	.0770-.0775
	Gap	.010-.020	
<b>Oil</b>	Description - material, type, coating, etc.	Steel rails (a)	Cast alloy iron
		Multi-piece Chrome plated OD	
	Width	.193-.195	.1860-.1865
	Gap	.015-.055	.010-.020
<b>Expansion</b>	In oil ring assembly		

## ENGINE-PISTON PINS

<b>Material</b>		Chromium steel
<b>Length</b>		2.990-3.010
<b>Diameter</b>		.9270-.9273
<b>Type</b>	Locked in rod, in piston, floating, etc.	Pressed in rod
	Bushing	In rod or piston
Material		
<b>Clearance</b>	In piston	.00015-.00025
	In rod	None
<b>Direction &amp; amount offset in piston</b>		Major thrust side -.060

## ENGINE-CONNECTING RODS

<b>Material</b>		Drop forged steel
<b>Weight (oz.)</b>		19.02
<b>Length (center to center)</b>		5.699-5.701
<b>Bearing</b>	Material & Type	Extra-life steel backed babbitt - removable (b)
	Overall length	.817
	Clearance (limits)	.0007-.0027
	End play	.008-.014

(a) - Stainless steel spacers.

(b) - With special camshaft, premium aluminum bearings.



# AMA Specifications—Passenger Car

MAKE OF CAR <b>CHEVROLET</b>		MODEL YEAR <b>1961</b>		DATE ISSUED <b>10-7-60</b>		REVISED _____	
MODEL <b>Corvette</b>		<b>4-barrel</b>		<b>2x4-barrel</b>		<b>Fuel Injection</b>	
		<b>Reg. cam</b>		<b>Spec. cam</b>		<b>Reg. cam</b>	
						<b>Spec. cam</b>	

## ENGINE—CRANKSHAFT

Material		Forged steel		
Vibration damper type		Inertia, rubber mounted		
End thrust taken by bearing (No.)		5		
Crankshaft end play		.002-.006		
Main bearing	Material & type		Extra-life steel backed babbitt - removable (a)	
	Clearance		.0008-.0034	
	Journal dia. and bearing overall length	No. 1	2.2983x.762	
		No. 2	2.2983x.762	
		No. 3	2.2983x.762	
		No. 4	2.2983x.762	
		No. 5	2.2983x1.169	
		No. 6	None	
No. 7		None		
Dir. & amt. cyl. offset		None		
Crank journal diameter		1.999-2.000		

## ENGINE—CAMSHAFT

Location		Above crankshaft	
Material		Cast alloy iron	
Bearings	Material		Extra-life steel backed babbitt
	Number		5
Gear or chain		Chain	
Crankshaft gear or sprocket material		Steel	
Type of Drive	Camshaft gear or sprocket material		Cast alloy iron
	Timing chain	No. of links	
		Width	
		Pitch	

## ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard	Mechanical	Standard	Mechanical
Valve rotator, type (intake, exhaust)		None			
Rocker ratio		1.5:1			
Operating tappet clearance (indicate hot or cold)	Intake	Zero	.012 (hot)	Zero	.012 (hot)
	Exhaust	Zero	.018 (hot)	Zero	.018 (hot)
Timing marks on flywheel, damper, other		Damper			

(Continued)

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(a) - With special camshaft, #1 thru #4 are premium aluminum bearings.

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED \_\_\_\_\_  
 MODEL Corvette 4-barrel Dual 4-barrel Fuel Injection  
Reg. cam Spec. cam Reg. cam Spec. cam

## ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	12°30'	35	12°30'	35
		Closes (°ABC)	57°30'	72	57°30'	72
		Duration - deg.	250	287	250	287
	Exhaust	Opens (°BBC)	54°30'	76	54°30'	76
		Closes (°ATC)	15°30'	31	15°30'	31
		Duration - deg.	250	287	250	287
Valve opening overlap		28°	66°	28°	66°	
Material		Carbon steel (Valve faces aluminize)				
Overall length		4.902-4.922	4.870-4.890	4.902-4.922	4.870-4.8	
Actual overall head dia.		1.715-1.725			1.935-1.9	
Angle of seat & face		46° and 45°				
Seat insert material		None				
Stem diameter		.3415-.3422				
Stem to guide clearance		.0010-.0027				
Intake	Lift		.3987	.394	.3987	.394
	Valve spring pressure and length	Valve closed (lb. @ in.)	69-79@1.696			
		Valve open (lb. @ in.)	159-169@1.306			
	Valve spring pressure and length	Valve closed (lb. @ in.)	Valve spring damper 5-10 lb.			
		Valve open (lb. @ in.)	Valve spring damper 5-10 lb.			
	Material		High alloy steel (Valve faces aluminize)			
Overall length		4.913 - 4.933	4.891-4.911	4.913-4.933	4.891-4.9	
Actual overall head dia.		1.495 - 1.505				
Angle of seat & face		46° and 45°				
Seat insert material		None				
Stem diameter		.3410 - .3417				
Stem to guide clearance		.0015 - .0032				
Exhaust	Lift		.3987	.400	.3987	.400
	Valve spring pressure and length	Valve closed (lb. @ in.)	69-79@1.696			
		Valve open (lb. @ in.)	159-169@1.306			
	Valve spring pressure and length	Valve closed (lb. @ in.)	Valve spring damper 5-10 lb.			
		Valve open (lb. @ in.)	Valve spring damper 5-10 lb.			
	Material		High alloy steel (Valve faces aluminize)			

## ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Chain bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Nozzle spray
Cylinder walls	Pressure, jet cross spray	

(Continued)

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# AMA Specifications - Passenger Car

MAKE OF CAR <b>CHEVROLET</b>	MODEL YEAR <b>1961</b>	DATE ISSUED <b>10-7-60</b>	REVISED <b>Dual 4-barrel</b>
MODEL <b>Corvette</b>	<b>4-barrel</b>	<b>Reg. cam</b>	<b>Spec. cam</b>

## ENGINE LUBRICATION SYSTEM (cont.)

Pump type	Gear
Oil pressure (lb./sq. in. @ engine rpm)	35 @ 2000
Pressure sensing (elect. or mech.)	Electric
Oil intake (stationary)	Stationary
Filter system (full flow, partial, other)	Full flow
Filter replacement (partial, complete)	Element
Capacity of crankcase (incl. filter-refill (qt.))	5.0
Grade recommended (SAE viscosity temperature range)	32°F and above - SAE 20W, SAE 20, SAE 10W-30 0°F and above - SAE 10W, SAE 10W-30 Below 0°F - SAE 5W, SAE 5W-20 Sustained high speed over 90°F - SAE 30 may be used
Oil Service (MM, MS, etc.)	MS or DG

## ENGINE EXHAUST SYSTEM

Type (single, dual, cross-over, dual, other)	Dual
Filter No. & location (reverse flow, right thru, etc.)	Two; reverse flow; straight thru with special cams
Exhaust pipe (branch)	None
Exhaust pipe (main) (wall thickness)	2.0 x .0625
Exhaust pipe (branch & wall thickness)	1.87 x .0598

## ENGINE FUEL SYSTEM

(See Supplement to Page 6 for Details of Fuel Injection, Supercharger, etc. if used)

Injection type (carburetor, fuel injection, supercharger)	Carburetor (Fuel Injection optional) (a)		
Fuel capacity (gals.)	16.4 (b)		
Location	Rear of left door opening		
Control (elec. or mech.)	Mechanical		
Location	Lower right front corner of engine		
Pressure range	5.25 - 6.50		
Boost (elec., optional, none)	None		
Material	Sintered bronze		
Location	Carburetor inlet		
Model No.	Carter		
Location	Front (c)	3779178	3744002
	Rear (c)		3741089
			3741090
Number of carbs., bbls. & type	One, 4-bbl., downdraft	Two, 4-bbl., downdraft	
Capacity	1.3125		
Control	Automatic		
Carburetor manifold heat control (cooling water)	Exhaust		
Material	Oil wetted, polyurethane		
Type	Standard	Paper element (Fuel Injection)	
	Optional		

(a) - See Supplement to Page 6 for details of Fuel Injection.

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(b) - 20.0 gallon; fiberglass material; for use with hardtop models (soft tops cannot be lowered into top well) (LPO 1625).

(c) - Apply to dual 4-barrel carburetors only.

# AMA Specifications -- Passenger Car

Supplement to Page 6

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED \_\_\_\_\_

## SUPPLEMENTARY INFORMATION

### Engine Fuel System - Fuel Injection

MODEL Corvette

Injection System	Make Model Type	Rochester Products 7017310 (b) Constant flow
Fuel Recommended		Premium
Fuel Pump	Type Location Pressure range	Mechanical Lower right front corner of engine 5.25-6.50 psi
Auxiliary Fuel Filter	Type Location	Paper filter Bracket to engine adapter on right, rear of center
Inlet Manifold Adapter - Material		Cast aluminum
Inlet Manifold - Material		Cast aluminum
Air Induction (a)	Air cleaner type Air meter location Plenum chamber Ram pipes Ram pipe length	Dry (paper element) Left side of engine Integral with inlet manifold Eight, integral with inlet manifold 12 inches
Fuel Induction		Metered as function of air flow
Air/Fuel Ratio Control	Type Location	Vacuum sensitive diaphragm On fuel meter
Fuel Meter Pump	Type Location Drive Pressure (max.)	Gear In fuel meter assembly Flexible shaft from distributor 300 psi
Injection Nozzles	Number Material Location Orifice size, fuel Insulation	Eight Brass Mounted on inlet manifold above inlet ports .0118 Bakelite blocks
Automatic Enrichment	Type Location Current draw Fast idle	Electric, time-temperature On air meter assembly 1 amp @ 70° Yes

- (a) - Air intake ducts with channel outside air to engine compartment are furnished with Fuel Injection.
- (b) - 7017320 with special camshaft.

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2019-2020  
2020-2021  
2021-2022  
2022-2023  
2023-2024  
2024-2025

# AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED

MODEL Corvette

## ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure		
Radiator cap relief valve pressure		13 psi		
Circulation thermostat	Type (choke, bypass)	Bypass		
	Starts to open at (°F)	167-172		
Water pump	Type (centrifugal, other)	Centrifugal		
	Number of pumps	One		
	Drive (V-belt, other)	V-belt		
	Bearing type	Double row ball		
By-pass recirculation type (Internal, external)		Internal		
Radiator core type (cellular, tube and fin, other)		Aluminum - cross flow		
Cooling system capacity	With heater (qt.)	16.5		
	Without heater (qt.)	15.5		
	Opt. equipment—specify (qt.)	None		
Water jackets full length of cylinder (yes, no)		Yes		
Water all around cylinder (yes, no)		Yes		
Radiator hose	Lower	Number and type (molded, straight)	One, molded	
		Inside diameter	1.75	
	Upper	Number and type (molded, straight)	One, molded	
		Inside diameter	1.50	
	By-pass	Number and type (molded, straight)	None	
		Inside diameter	----	
	Fan	Number of blades & Spacing		5-blade
		Diameter		17.12
Ratio—fan to crankshaft rev.		.949:1		
Fan cutout type		Thermo-modulated viscous drive (a)		
Bearing type		Double row ball		
*Drive belts (indicate belt used by letter)	Fan		A	
	Generator		A	
	Water Pump		A	
	Power Steering		None	
	Air Conditioning		None	

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* Drive Belt Dimensions	A
Angle of V	37-46°
Nominal length (SAE)	54.12 (b)
Width	.380 ± .005

- (a) - Viscous drive coupling operates above 140°F and below 3200 RPM  
 (b) - Pitch length.

# AMA Specifications - Passenger Car

MAKE OF CAR	CHEVROLET	MODEL YEAR	1961	DATE ISSUED	10-7-60	REVISED
MODEL	Corvette	4-barrel	2 x 4-barrel	Fuel Injection		
		Reg. Cam	Spec. Cam	Reg. Cam	Spec. Cam	

## ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Delco, 1980458					
	Voltage Rtg. & Total Plates	12 volts, 54 plate					
	SAE Designation & Amp Hr. Rtg	2SMR, 53 amp. hr. @ 20 hr. rate					
	Location	Right rear side of engine compartment					
	Terminal grounded	Negative					
Generator	Make	Delco Remy					
	Model	1102043				1102173	
	Type	Two brush, shunt wound					
	Ratio—Gen. to Cr/s rev.	2.3:1				1.66:1	
	Gen. cut-in (hot) —engine rpm	620				745	
Regulator	Make	Delco Remy					
	Model	1119001				1119002	
	Type	Vibrator					
	Cutout relay	Closing voltage @ generator rpm	11.8-13.5 @ 1300				
		Reverse current to open					
	Regulated	Voltage	13.8-14.8				
		Current	27-33				33-37
	Voltage test conditions	Temperature	Operating				
Load		10 amps. max.					
Other		None					

## ELECTRICAL—STARTING SYSTEM

Starting motor	Make	Delco Remy					
	Model	1107664					
	Rotation (drive end view)	Clockwise					
	Engine cranking speed						
	Test conditions	Engine at operating temperature					
	Lock test	Amps					
		Volts					
Torque (lb. ft.)							
No load test	Amps	49-76					
	Volts	10.6					
	RPM (min.)	6200					
Motor control	Switch (solenoid, manual)	Solenoid					
	Starting procedure	<p>3 and 4-speed, depress clutch and shift into neutral; Powerglide - place selector lever in "N" (Neutral) or "P" (Park). Depress accelerator pedal to floorboard to set automatic choke, release. Turn ignition to extreme right to engage starting motor.</p>					

# AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED \_\_\_\_\_  
 MODEL Corvette 4-barrel Dual 4-barrel Fuel Injection Fuel Injection  
 Reg. Cam Spec. Cam Reg. Cam Spec. Cam

## ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type	Positive shift solenoid		
	Pinion meshes (front, rear)	Rear		
	Number of teeth	Pinion	9	
		Flywheel	168	
Flywheel tooth face width		.4135		

## ELECTRICAL—IGNITION SYSTEM

Coil	Make	Delco Remy				
	Model	1115091		1115107		
	Amps	Engine stopped	4.0			
Engine idling		1.8				
Distributor	Make	Delco Remy				
	Model	1110946	1110891 (a)	1110915	1110914(a)	
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0 @ 600			
		Intermediate points deg. @ rpm				
		Max deg. @ rpm	28 @ 3700		22 @ 6000	
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	0 @ 8	None	0 @ 4.75	None
		Intermediate points, deg @ in Hg				
		Max. deg. in. Hg.	15 @ 15.5	None	24 @ 13.5	None
	Breaker gap (in.)		.019			
	Cam angle (deg.)		26-33	29 ± 1 (b)	26-33	29 ± 1 (b)
Breaker arm tension (oz.)		19-23				
Crankshaft deg. @ rpm.		4° BTC	12° BTC	8° BTC	18° BTC	
Timing	Mark location	Damper				
	Cylinder numbering system – (see page 2)	Left bank 1-3-5-7				
		Right bank 2-4-6-8				
Firing order (see page 2)		1-8-4-3-6-5-7-2				
Spark Plug	Make and model	AC 44		AC 44 FF		
	Thread (mm)	14				
	Tightening torque (lb. ft.)	25				
	Gap	.033-.038				
Cable	Conductor type	Linen core impregnated with electrical conducting material				
	Insulation type	Rubber with neoprene jacket				
	Spark plug protector	Hypalon jacket				

## ELECTRICAL—SUPPRESSION

Locations & type

Non-metallic high tension cable

- (a) - Dual breaker points.  
 (b) - Per breaker, 33° ± 1 total cam angle (both breakers).



# AMA Specifications - Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED

MODEL Corvette

## ELECTRICAL - INSTRUMENTS AND SWITCHES

Speedometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator		Ammeter
Temperature indicator	type	Gauge (electric)
Oil pressure indicator	type	Gauge (bourbon tube)
Fuel indicator	type	Gauge (electric)
Other		Tachometer (mechanical)
Ignition switch	Identify positions in order and circuits controlled	Counterclockwise from vertical ----- Off, lock Vertical ----- Off, unlocked 1st pos. clockwise from vertical ----- On, ign & accessories 2nd pos. clockwise from vertical ----- Start, ign & starter spring return to On
	Provision for illumination	None
	Location	On instrument panel, right of steering column
Main lighting switch	Identify positions and lamps controlled	Depressed - off 1st notch - instrument panel, parking, tail, license lamps 2nd notch - instrument panel, head, tail, license lamps Rotate clockwise to dim or turn off instrument panel lamps, counterclockwise to turn on or brighten panel lamps.
Other light switches	Locations and lamps controlled	Toe panel ----- Headlamp dimmer Steering column ----- Turn signal Hinge pillars ----- Courtesy lamps (a, b) Brace below instrument panel --- Stop lamps Parking brake handle shaft ----- Parking brake alarm lamp (a)
	Locations and devices controlled	Instrument panel, center ----- Power folding top (c) Instrument panel, left ----- Electric windshield wipers Door panels, LH and RH ----- Electric window lifts (c) Instrument panel, lower ----- Radio (a) Instrument panel, lower ----- Heater blower (a)
Windshield wiper	Make	Delco
	Type	Electric, 2-speed
	Vacuum booster provision	None
	Weather provision	Standard Equipment (Includes co-ordinator & vacuum reserve tank)
Horn	Type	Vibrator
	Number used	2
	amp draw (each)	8.0-11.0 @ 12.5 volts

- (a) - Available as Factory Option Accessory.
- (b) - Switch on lamp housing only.
- (c) - Available as Regular Production Option.

# AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED \_\_\_\_\_

MODEL \_\_\_\_\_ Corvette

## ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 3, dual headlight 2-4001, 2-4002. Indicate accessories which are not standard equipment by an asterisk following the numbers.

Headlamps & arrangement		Dual headlight 2-4001, 2-4002
Headlamp beam indicator		1-53
Parking		2-1034 (4 cp filaments)
Tail		4-1034 (4 cp filaments)
Stop		4-32 cp filaments of tail lamp bulbs
Direction signal	Front	2-32 cp filaments of parking lamp bulbs
	Rear	4-32 cp filaments of tail lamp bulbs
	Indicator	2-57
License plate		1-67
Instrument		5-57
Ignition lock		None
Back up		None
Dome		None
Clock		1-67
Radio		1-GE-1891
Glove compartment		None
Park brake alarm		1-53
Courtesy light		1-90
Cig. lighter light		1-53

**MAKE OF CAR** CHEVROLET **MODEL YEAR** 1961 **DATE ISSUED** 10-7-60 **REVISED** \_\_\_\_\_

**MODEL** Corvette

**ELECTRICAL-FUSE & CIRCUIT-BREAKER DATA**

Use trade number of fuse, e.g., SFE-10. Indicate circuit-breaker by ampere capacity suffixed by letters "C.B.", e.g., 30 C.B. Where fuse or circuit breaker protects multiple circuits indicate each by a letter and repeat the same letter for all units protected by the same fuse or circuit breaker, e.g., Parking lamp SFE-10 (a), Directional indicator same as (a).

Headlamp	15 CB (a)
Headlamp beam indicator	(a)
Parking lamp	(a)
Tail lamp	3 AG/AGC-10 amp (b)
Stop lamp	(b)
Direction indicator	Flasher
License plate lamp	(b)
Instrument lamp	AGC - 3 amp (c)
Ignition lamp	None
Back up lamp	None
Dome lamp	None
Clock	(b)
Clock lamp	(c)
Radio	Light (c); Receiver 3 AG/AGC 7.5 amp
Glove compartment lamp	None
Park brake alarm	(b)
Power windows	30 CB (d)
Heater blower	(b)
Cig. lighter light	(c)
Power top	(d)

**ELECTRICAL-LOCATION OF OUTSIDE LAMPS**

Height above ground to center of bulb	Tail	Lowest	23.13
		Highest	23.13
	Stop		23.13
	Backup		None
	License, rear		22.49
	Directional	Front	12.5
		Rear	23.13
	Headlamp	Inside	28.11
		Outside*	28.11
Distance from C/L of car to center of bulb	Tail	Inside	19.00
		Outside	25.00
	Stop		19.00 inside; 25.00 outside
	Backup		None
	License, rear		.38 to left
	Directional	Front	19.2
		Rear	19.00 inside; 25.00 outside
	Headlamp	Inside	22.8
		Outside*	29.1

\* If single headlamps are used enter here.

# AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE: ISSUED 10-7-60 REVISED (a)

MODEL Corvette 867

## DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Borg and Beck, dry plate	
Type pressure plate springs	Coil	
Effective plate pressure (lb.)	1620 initial	
No. of clutch driven discs	One	
Clutch facing	Material	Premium woven asbestos composition
	Outside & inside dia.	10.0 x 6.5
	Total eff. area (sq.in.)	90.72
	Thickness	.135
	Engagement cushioning method	Springs
Release bearing	Type & method of lubrication	Ball bearing, sealed
Torsional damping	Methods: springs, friction material	Spring at hub

## DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Standard
Manual with overdrive (std. or opt.)	None
Automatic (std. or opt.)	Optional

## DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds	Three	Four	
Transmission ratios	In first	2.47:1	
	In second	1.53:1	
	In third	1.00:1	
	In fourth	None	
	In reverse	2.80:1	
Synchronous meshing, specify gears	2nd and 3rd	1st, 2nd, 3rd, 4th	
Shift lever location	Floor	Floor	
Lubricant	Capacity (pt.)	2.0	
	Type recommended	Multi-purpose gear lubricant	
	SAE viscosity number	Summer	SAE 90
		Winter	SAE 90
		Extreme cold	SAE 80

# AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE: ISSUED 10-7-60 REVISED \_\_\_\_\_  
 MODEL Corvette

## DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)		None	
	Manual lockout (yes, no)		--	
	Downshift accelerator control (yes, no)		--	
	Minimum cut-in speed		--	
	Gear ratio		--	
	Lu- bri- cant	Capacity (pt.) (Overdrive only)		--
		Separate filler (yes, no)		--
		Type recommended		--
		SAE vis- cosity number	Summer	--
			Winter	--
Ext. cold		--		

## DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Powerglide						
Type describe	Torque converter with planetary gears						
Method of Selection (Lever, Push Button or other)	Lever						
Selector Pattern	P-R-N-D-L						
List gear ratios Selector Pattern and indicate which are used in each selector position	<table style="margin-left: auto; margin-right: auto;"> <tr> <td>Drive</td> <td>1.82 and 1.00:1 (a)</td> </tr> <tr> <td>Low</td> <td>1.82:1</td> </tr> <tr> <td>Reverse</td> <td>1.82:1</td> </tr> </table>	Drive	1.82 and 1.00:1 (a)	Low	1.82:1	Reverse	1.82:1
Drive	1.82 and 1.00:1 (a)						
Low	1.82:1						
Reverse	1.82:1						
Max. upshift speeds—drive range	55						
Max. kickdown speeds—drive range	50						
Torque convertor	Number of elements	3					
	Max. ratio at stall	2.1:1					
	Type of cooling (air, water)	Air					
Lubricant	Capacity—refill (pt.)	9					
	Type recommended	"A" suffix "A"					
Special transmission features	Three element hydraulic torque converter with automatic planetary gear system for reverse and low.						

(a) - Total transmission torque multiplication - 3.82:1

# AMA Specifications – Passenger Car

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MODEL Corvette 867

## DRIVE UNITS—PROPELLER SHAFT

Number used		One
Type (exposed, torque tube)		Exposed
Outer diameter, length & wall thickness	Manual transmission	2.5 x 34.55 x .065
	Overdrive transmission	None
	Automatic transmission	2.5 x 34.55 x .065
Intermediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	None
Universal joints	Make	Chevrolet
	Number used	Two
	Type (ball and trunnion, cross, other)	Yoke and spider (trunnion)
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		Fitting
Drive taken through (torque tube or arms, springs)		Rear springs and radius rods
Torque taken through (torque tube or arms, springs)		Rear springs and radius rods

## DRIVE UNITS—REAR AXLE

Description - (incl. limited slip differential)		Standard axle semi-floating, overhung pinion gear Positraction - semi-floating overhung pinion gear Spicer limited slip with dual 4-disk clutches applied by reaction torque through differential side gears	
Drive Pinion Offset		1.5	
No. of differential pinions		2 (a)	
Gear ratio and No. of teeth	Manual transmission	3.36:1 (11-37) 3-spd; 3.70:1 (10-37) 4-spd (b)	
	Overdrive transmission	None	
	Automatic transmission	3.55:1 (9-32)	
Ring gear pitch diameter & O.D.		8.375 PD and OD	
Pinion adjustment (shim, other)		Shim	
Pinion bearing adj. (shim, other)		None	
Wheel bearing type		Ball	
Lubricant	Capacity (pt.)	4.0	
	Type recommended	A-9 hypoid	
	SAE viscosity number	Summer	SAE -90
		Winter	SAE -90
Extreme cold		SAE -90	

\*Center to center of universal joints, or to centerline of rear attachment.

(a) - 4 pinions in positraction (limited slip) axle.

(b) - Optional positraction axles available with 3.36, 4.11, & 4.56 with 3-speed; 3.70, 4.11 & 4.56 with 4-speed.

# AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED (a)

MODEL Corvette 867

### DRIVE UNITS—WHEELS

Type & material		Short spoke disk, pressed steel
Rim (size and flange type)		15 x 5K (a)
Attachment	Type (bolt or stud)	Stud
	Chase diameter	4.75
	Number and size	5, 7/16-20

### DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	6.70 x 15-4 pr (blackwall) (b)
	Type - Nylon, etc.	Rayon
Rev/mile at 30 mph.		760
Inflation press.(cold)	Front	24
	Rear	24

### BRAKES—SERVICE

Type (dual, self-adjusting, etc.)		Servo, 4 wheel hydraulic	
		Production	Optional (RPO 686)(c)
Power brake make & type (remote, integral, etc.)		None	
Effective area (sq. in.)*		157.0	114.6
Gross lining area (sq. in.)**		157.0	120.0
Swept drum area (sq. in.)***		<del>259</del>	259
Percent brake effectiveness—front		58.5	58.5
Drum	Diameter	Front	11
		Rear	11
Type and material		Composite-cast alloy iron rim; pressed steel web	
Bonded or riveted		Bonded	Riveted
Brake lining	Front shoe	Material	Full molded asbestos comp.
		Size (length x width x thickness)	Sintered iron
			Front wheel
	Rear wheel	2.0 x 1.0 x .175	
	Rear wheel	9.29 x 1.75 x .168	
	Rear wheel	2.0 x 1.0 x .295	
Segments per shoe		1	6
Rear shoe	Material	Full molded asbestos comp.	
		Sintered iron	
	Size (length x width x thickness)	Front wheel	11.69 x 2.0 x .168
		Rear wheel	2.0 x .875 x .175
Rear wheel	11.69 x 1.75 x .164		
Rear wheel	2.0 x .875 x .295		
Segments per shoe		1	10
Wheel cylinder bore	Front	1.1875	
	Rear	1.00	
Master cylinder bore		1.00	
Available pedal travel		4.50	
Line pressure at 100 lb. pedal load		700 psi	
Shoe clearance adjustment		Adjust to light drag, back off 7 notches (d)	

\* Excludes rivet holes, grooves, chamfers, etc.  
 \*\* Includes rivet holes, grooves, chamfers, etc.  
 \*\*\* Total swept areas for four brakes.  
 Widest lining contact width for each brake x its drum circumference.

- (a) - 15 x 15.5K wheels available as RPO
- (b) - White wall tire available as RPO
- (c) - Optional heavy-duty brake package (RPO 687) See Supplement page 16.
- (d) - Back off 12 notches with sintered iron brakes.

# AMA Specifications -- Passenger Car

Supplement to Page 16

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED \_\_\_\_\_

## SUPPLEMENTARY INFORMATION

MODEL Corvair

### Optional Heavy Duty Brakes (RPO 687)\*

Type		Servo, 4-wheel hydraulic	
Effective area (sq. in.)		124.0	
Gross lining area (sq. in.)		129.8	
Brake effectiveness, front		62%	
Drum	Diameter	Front	11
		Rear	11
Type & material		Composite; cast alloy iron rim pressed steel web	
Brake cooling at each wheel		Vaness cast on drum rim, air scoop on backing plate, fans between drum and wheel hub.	
Front	Attachment		Riveted
	Material		Sintered iron
Shoe	Size	Front wheel	1.64 x 1.25 x .175
		Rear wheel	1.64 x 1.25 x .295
Lining		Segments per shoe	
		Primary 6; secondary 12	
Rear	Attachment		Riveted
	Material		Sintered iron
Shoe	Size	Front wheel	2.0 x .875 x .175
		Rear wheel	2.0 x .875 x .295
Lining		Segments per shoe	
		Primary 6; secondary 10	
Wheel cyl. bore	Front		1.125
	Rear		0.875
Master cylinder bore		1.0	
Available pedal travel		4.5	
Line pressure @ 100 lb pedal load		700 psi	
Shoe clearance adjustment		Adjust to slight drag, back off 17 notches	

\* - RPO 687 includes fast steering adapter.



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# AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED \_\_\_\_\_

MODEL Corvette

## BRAKES—PARKING

Type of control		T-handle pull rod
Location of control		Below instrument panel, left of steering column
Operates on		Rear service brakes
If separate from service brakes	Type (internal or external)	None
	Drum diameter	None
	Lining size (length x width x thickness)	None

## FRAME or UNITIZED CONSTRUCTION

Type and description	Full length welded box section side members, I-beam X-member. Bracing X-member to front side members. U-type rear shock absorber crossmember. Box section front and rear crossmember.
----------------------	---

## SUSPENSION—GENERAL (See Supplemental page 17 for details on Air Suspension)\*

Provision for car leveling		None
Provision for brake dip control		None
Provision for acc. squat control		None
Special provisions for car jacking		Scissors type jack provided
Shock absorber front & rear	Type	Direct double acting (a)
	Make	Delco
	Piston dia.	1.0
Other special features		Auxiliary rear radius rods control spring wind-up

## SUSPENSION—FRONT

Type and description	Unitized, independent, short and long arm
----------------------	---

(a) - Each coil spring nitrogen-filled envelope in fluid reservoir to prevent fluid aeration.

Rev. Form 3-59  
(Continued)

\* Air Suspension:  
 Air spring type  
 Compressor data  
 type  
 make  
 drive ratio  
 Normal operating pressures  
 spring rates  
 leveling data

# AMA Specifications – Passenger Cars

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED \_\_\_\_\_

MODEL Corvette

## SUSPENSION FRONT (cont.)

Spring	Type	Coil
	Material	Chrome alloy steel
	Size (coil design height & I.D.; bar length x dia.)	9.62 x 3.162 x 116.0 x .550
	Spring rate (lb. per in.)	300
	Rate at wheel (lb. per in.)	115
	Design load (lb. @ design height)	1235 @ 9.62
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	HR steel, .8125

## STEERING

Mechanical (std., or NA)	Standard	
Power (std., opt., NA)	NA	
Wheel diameter	17"	
Turning diameter	Outside front	Wall to wall (l. & r.) Left: 39 feet, right: 38.5 feet
		Curb to curb (l. & r.) Left: 37 feet, right: 36.5 feet
	Inside rear	Wall to wall (l. & r.)
		Curb to curb (l. & r.)
Outside wheel angle with inside wheel at 20°		17°

Mechanical	Gear	Type		Semi-reversible, worm and ball bearing sector		
		Make		Saginaw		
		Ratios	Gear	16.0:1		
		Overall	21.0:1	16.3:1 (a)		
		No. wheel turns	3.7	3.25		
Power	Type (coaxial, linkage, etc.)		None			
	Make		--			
	Trade name		--			
	Gear	Type		--		
		Ratios	Gear	--		
			Overall	--		
	Pump driven by		--			
	Number wheel turns		--			
	Linkage	Type		Center point		
		Location (front or rear of wheels, other)		Rear of wheels		
Drag link (trans. or longit.)		Longitudinal				
Tie rods (one or two)		Two				

(a) - Special steering part of cerematalix brake option.

(Continued)

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# AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE: ISSUED 10-7-60 REVISED \_\_\_\_\_

MODEL Corvette

## STEERING (cont.)

Steering Axis	Inclination of camber (deg.)		3°30' - 4°30'
	Bearings (type)	Upper	Bushing
		Lower	Bushing
		Thrust	Single row ball
Wheel alignment (range and preferred)	Caster (deg.)		2°0' ± 0°30'
	Camber (deg.)		0° ± 0°30'
	Toe-in (outside tread-inches)		.00 - .12 per wheel
Steering spindle & joint type			Reverse Elliott
Wheel spindle	Diameter	Inner bearing	1.2801 - 1.2806
		Outer bearing	.7490 - .1495
	Thread size		3/4-20
	Bearing type		Ball

## SUSPENSION—REAR

Type and description			Outrigger mounted leaf springs	
Drive and torq. taken through (see page 15)			Rear springs and radius rods	
Spring	Type		Leaf, semi-elliptic	
	Material		Alloy steel	
	Size (length x width, coil design height and I.D.; bar length & dia.)		51.0 x 2.0	
	Spring rate (lb. per in.)		115 (a)	
	Rate at wheel (lb. per in.)			
	Design load (lb. at design height)		605 @ .08 negative camber height	
	Mounting insulation type		Rubber bushed	
	If leaf	No. of leaves		4 (a)
		Inserts	Type and size	Liners: 19.8, 31.8, 46.3 long; 1.9 wide; .11 thick
			Material	Wax impregnated fiber board
Shackle (comp. or tens.)		Tension		
Stabilizer	Type (link, linkless, frameless)		Link	
	Material		Hot rolled steel	
Track bar type			None	

(a) - Regular production equipment.

# AMA Specifications – Passenger Car

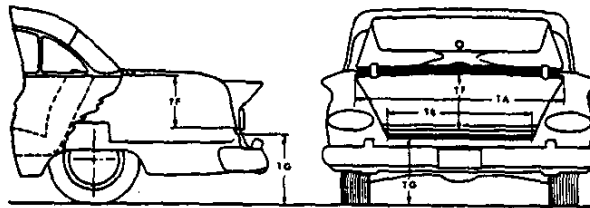
MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED \_\_\_\_\_

## BODY – GENERAL DEFINITIONS

NOTE: Included in the dimension definitions listed on this and the following pages are those which have been adopted by S.A.E. These are indicated by a number following the type of dimension, e.g. L 3. Additional dimensions have been added by the AMA Specifications Body Subcommittee for inclusion in the Questionnaire. These are shown by an additional letter, e.g., MA. Symbol "a" added as suffix to SAE dimensions indicates an AMA modification. The dimensions are developed from the following basic points:

1. Body dimensions are for all basic body models as indicated.
2. All exterior dimensions are taken 15" outboard of car centerline (C/L) unless otherwise stated.
3. Front and rear seat free "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
4. Depressed "A" point is the lowest point on the seat cushion depressed contour.
5. Front seat is in full down and normal rear position.
6. Unless otherwise specified all exterior height dimensions are taken with a full design load which consists of 5 passengers, 300 lbs. front, 450 lbs. rear; includes spare wheel, tire and tools, and full complement of gas, oil, water and tires to recommended pressure, etc.
7. DLO (Daylight opening - pages 22 & 24).
8. For further clarification of definitions see SAE Aeronautical—Automotive Drawing Standards, Section E-1.

## BODY – TRUNK DIMENSIONS

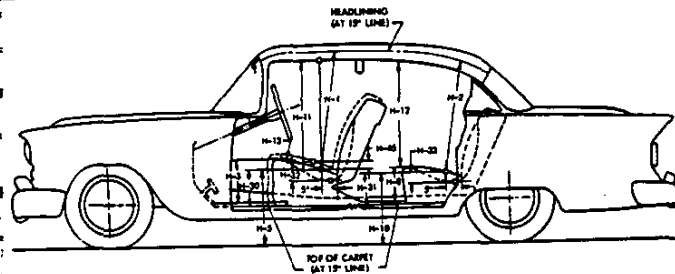


MODEL	Corvette
Usable trunk luggage capacity (See Section E-1 of SAE Automotive Drawing Standards)	
Total trunk volume in cu. ft. with spare tire in place	12.09 cu. ft.
TA—Width across the top	44.5
TB—Width across the bottom	Opening is oval
TF—Vertical dimension at C/L from bottom to top of opening	13.8
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal - loaded)	26.2
Position of spare tire stowage	Horizontal in trunk under floor
Method of holding lid open	Counterbalance springs

# AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED \_\_\_\_\_

## BODY—HEIGHT DIMENSIONS—INTERIOR



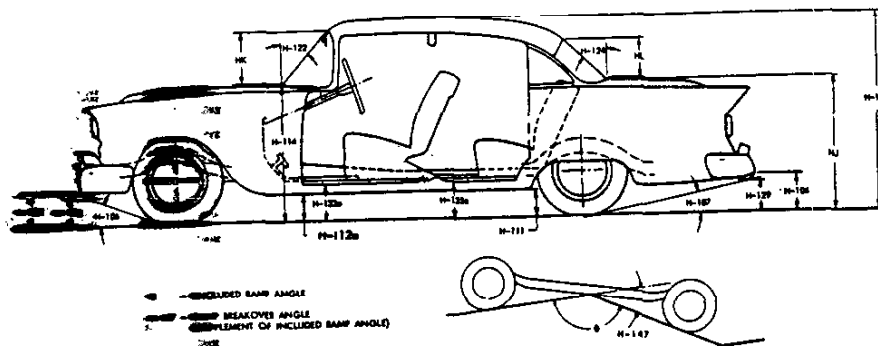
MODEL	Corvette
H1. Front headroom. Free "A" pt. to headlining at 8° back of seat. (For "A" pt. see note 3, page 20)	Convertible - 37.1 Hardtop - 36.90
H2. Rear headroom. Free "A" pt. to headlining at 8° back of seat	--
H3. Front cushion height above floor carpet at front edge of cushion. (includes risers)	7.7
H5. Free "A" pt. to ground front. Measured vertically	16.0
H8. Rear cushion height above floor carpet at front edge of cushion. (includes risers)	--
H10. Free "A" point to ground rear. Measured vertically	--
H11. Entrance, front. Free "A" point to bottom of windcord, vertical	30.8
H12. Entrance, rear. Top of cushion to bottom of windcord at front edge of rear seat	--
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned forward, clearance)	5.5
H30. Free "A" point to ground height, front. Vertical dimension to 54" horizontal reference line	5.2
H31. Free "A" point to ground height, rear. Vertical dimension to 54" horizontal reference line	--
H32. Front seat cushion deflection. Vertical dimension from "A" point to depressed "A" point	2.2
H33. Rear seat cushion deflection. Vertical dimension from "A" point to depressed "A" point	--
H45. Front seat maximum vertical rise at free "A" point	.2

# AMA Specifications— Passenger Car

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MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE: ISSUED 10-7-60 REVISED (e)

## BODY—HEIGHT DIMENSIONS—EXTERIOR



NOTE: For dimensions to ~~top~~ see page 12.

MODEL	Corvette
H101. Overall height, <del>full design load</del>	Convertible 52.2 (a); Hardtop 52.1
HB. Overall height, <del>curb weight</del>	Convertible 52.9 (b); Hardtop 52.8
H102. Front bumper <del>bottom to ground at normal section, min. height</del>	17.1
H104. Rear bumper <del>bottom to ground at normal section, min. height</del>	16.4
H106. Angle of approach. <del>To interfering point on bumper, guard, other</del>	21°18'
H107. Angle of departure. <del>To interfering point on bumper, guard, other</del>	21°10'
H111. Body Sill to <del>Ground Plane</del> . Vertical dimension measured from bottom of body sill: (road wheel), excluding any flanges, <del>to ground at front of rear wheel opening.</del>	6.7
H112a. Body Sill to <del>Ground Plane</del> . Measured vertically at foremost point of body sill (notaker panel), excluding flanges and front fender.	7.2
H114. Hood at rear <del>to ground</del> . Vertical dimension C/L, excluding molding, <del>at hood opening line at cowl</del>	36.5
H122. Windshield <del>vertical edge</del> angle to vertical line on car C/L	50°
H124. Backlight <del>vertical edge</del> angle to vertical line on car C/L	Approx. 42°
H128. Bottom of front bumper guard <del>to ground</del>	9.1
H129. Bottom of rear bumper guard <del>to ground</del>	13.1
H133a. Bottom of front bumper guard <del>to ground, min. dimension</del>	14.1
H135a. Bottom of rear bumper guard <del>to ground, min. dimension</del>	--
H147. Ramp breakover angle	7°47'
H153. Min. road clearance at rear ends	8.0
H156. Min. road clearance and location	6.7
HJ. Deck at rear <del>to ground</del>	36.4
HK. Windshield <del>DLO</del> . Vertical height at C/L	11.3
HL. Back light <del>DLO</del> . Vertical height at C/L	8.3

\* See Note, page 20

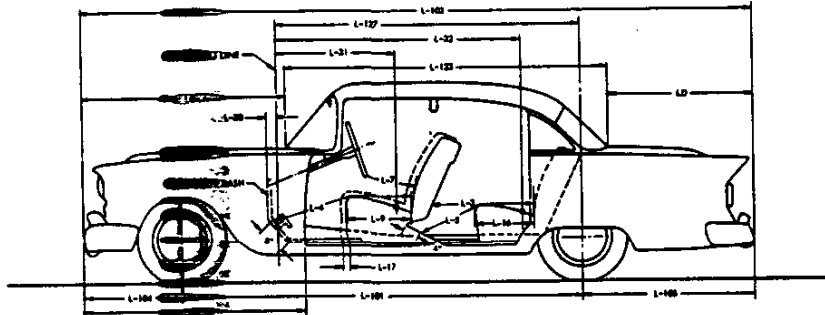
Form Rev. 6-60

- (a) - Top down - 30.2
- (b) - Top down - 30.8
- (c) - Vertical 5 inch line on the frame.

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE: ISSUED 10-7-60 REVISED \_\_\_\_\_

## BODY—LENGTH DIMENSIONS



MODEL	Corvette	
Interior	L3. Rear compartment room. Back of front seat back to front of rear seat back	--
	L4. Leg room, front. Ball of foot to top of seat to seat back	46.4
	L5. Leg room, rear. Ball of foot to top of seat to seat back	--
	L7. Steering wheel clearance back taken on arc	16.3
	L9. Front seat depth. Front to vert. tan. of seat back	18.7
	L16. Rear seat depth. Front edge to vert. tan. of seat back	--
	L17. Maximum "A" point horizontal travel with normal seat adjustment	4.4
	L30. Vertical body zero line to front of dash. Measured horizontally	.5
	L31. Vertical body zero line to free "A" point, front	41.3
	L32. Vertical body zero line to free "A" point, rear	--
Exterior	L101. Wheelbase	102.0
	L103. Overall length. Incl. bumpers and guards if standard equipment	176.7
	L104. Overhang, front. Includes bumper and guards if stand. eq.	31.8
	L105. Overhang, rear. Includes bumper and guards if stand. eq.	42.9
	L123a. Body upper structure length C/L, excl. molding	63.3
	L127. Vertical body zero line to centerline of rear wheels	74.1
	LC. Front of car to base of windshield, excl. molding	70.1
	LD. Rear of car to base of rear window or upper structure, excl. molding	43.3
	LE. Front of car to front edge of front door	76.7

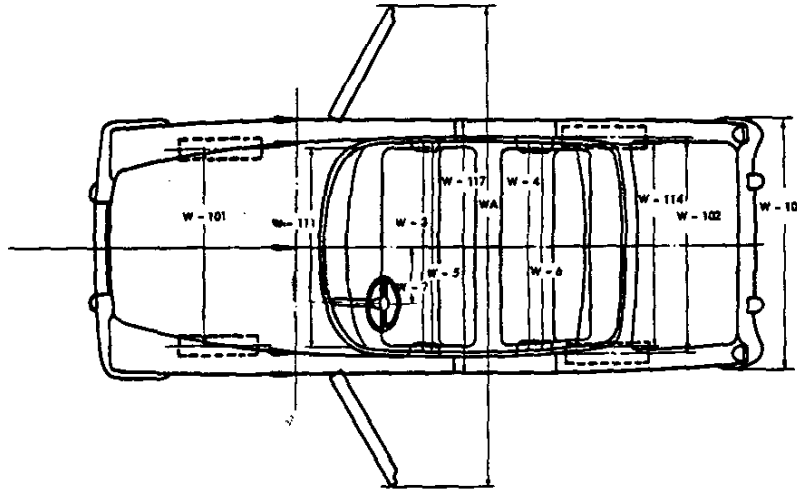
\* Precede figure with minus sign if measurement is to rear of body zero line.



# AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED (a)

## BODY—WIDTH DIMENSIONS



MODEL		
	<b>Corvette</b>	
Interior	W3. Front shoulder room, at garnish molding height or nearest interference 5' forward of seat back	49.4
	W4. Rear shoulder room, at garnish molding height or nearest interference 5' forward of seat back	--
	W5. Front hip room, at top of seat 5' forward of vert. tan. to seat back	59.6
	W6. Rear hip room, at top of seat 5' forward of vert. tan. to seat back	--
	W7. Steering wheel center (on surface plane of wheel) to C/L of body	13.9
Exterior	W101. Front tread at ground	57.0
	W102. Rear tread at ground	59.0
	W103. Max. overall width of car incl. bumpers or moldings (specify location).	70.4
	WA. Max. overall width of car with doors open (2 & 4 door)	134.5
	W111. Windshield DLO, max. width	53.6
	W114. Back window DLO, max. width	Hardtop 48.3; Convertible 35.0
	W116a. Maximum overall sheet metal width excl. hardware and applied molding (specify location)	70.4
W117. Max. body width at center pillar, less hardware and applied moldings	70.4	

# AMA Specifications – Passenger Car

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**MAKE OF CAR** CHEVROLET **MODEL YEAR** 1961 **DATE: ISSUED** 10-7-60 **REVISED** \_\_\_\_\_

## MAJOR OPTIONAL ITEMS - WEIGHTS

	CURB - WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING * WEIGHT
	Front	Rear	Total	Pass. in Front		Pass. in Rear		
				Front	Rear	Front	Rear	
<small>Model</small> 867 Convertible	1590	1445						2905
<b>Accessories &amp; Equipment Differential Weights</b>								<b>Remarks</b>
Hardtop (a)			-2					(a) In lieu of folding top.
(b)			+57					(b) In addition to folding top.
Heater			+10					
Radio			+16					
Top, hydraulic lift equip.			+35					
Transmission, 4-speed			+12					
Transmission, Powerglide			+100					

# AMA Specifications - Passenger Car

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Caster	19	Rods - Connecting	3
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