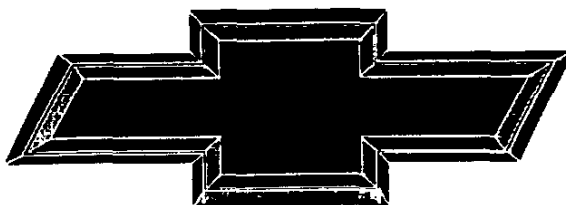
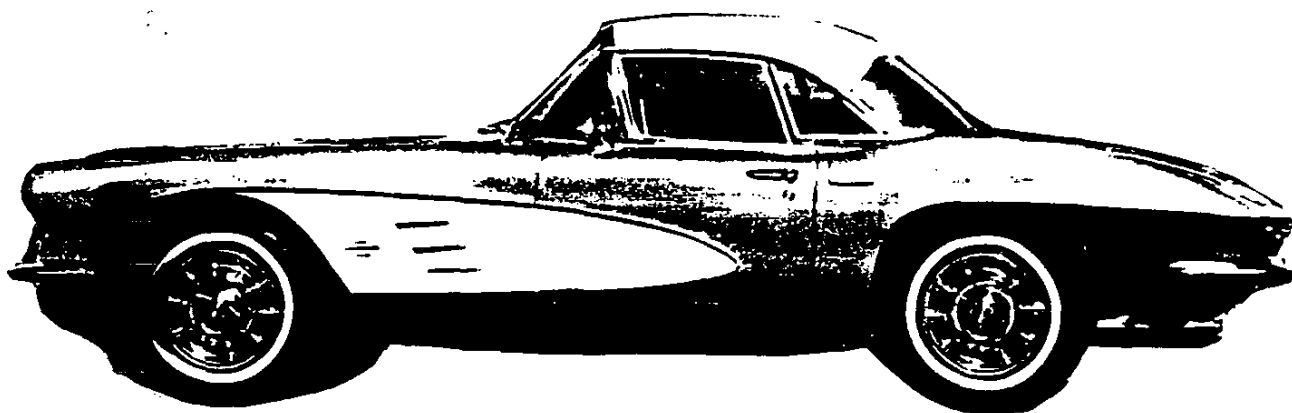



1961

CORVETTE

SPECIFICATIONS



GENUINE CHEVROLET™

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 under 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

BLACK BOOK ORDER FORM

Send _____ copies of the

Corvette Black Book 1953-1994

@ \$11.95 each \$ _____

Ohio residents add .72 sales tax _____

Postage/hard shipping container 3.00

Check or money order enclosed \$ _____

Name _____

Street _____

City _____ State _____ Zip _____

Mail Order To: **Michael Bruce Associates, Inc.**
Post Office Box 396
Powell, Ohio 43065

BLACK BOOK ORDER FORM

Send _____ copies of the

Corvette Black Book 1953-1994

@ \$11.95 each \$ _____

Ohio residents add .72 sales tax _____

Postage/hard shipping container 3.00

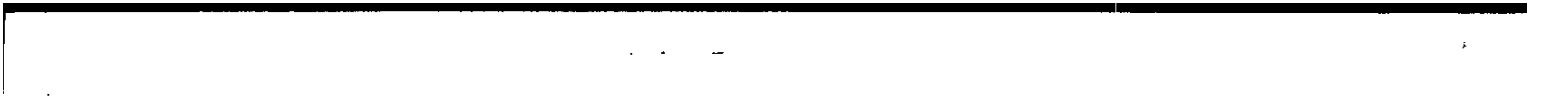
Check or money order enclosed \$ _____

Name _____

Street _____

City _____ State _____ Zip _____

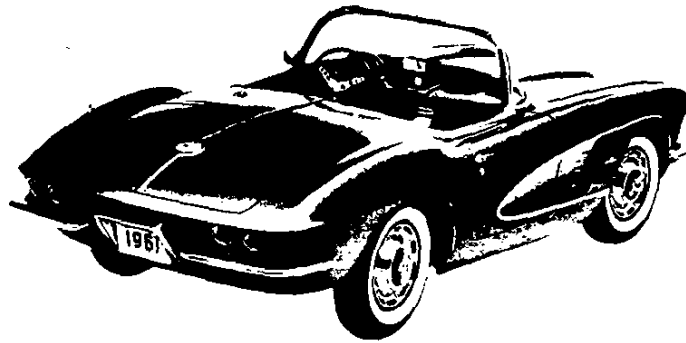
Mail Order To: **Michael Bruce Associates, Inc.**
Post Office Box 396
Powell, Ohio 43065



~ ~ ~ ~ ~

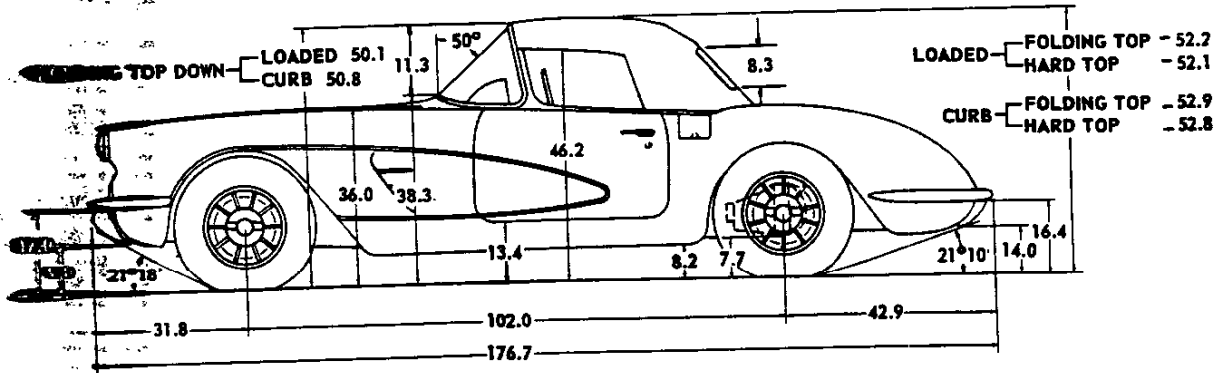
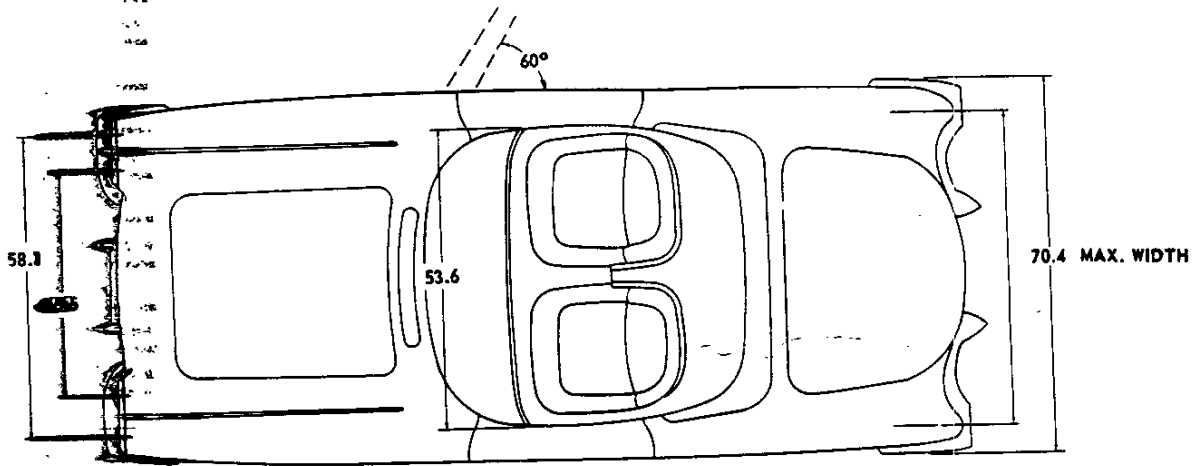


CORVETTE

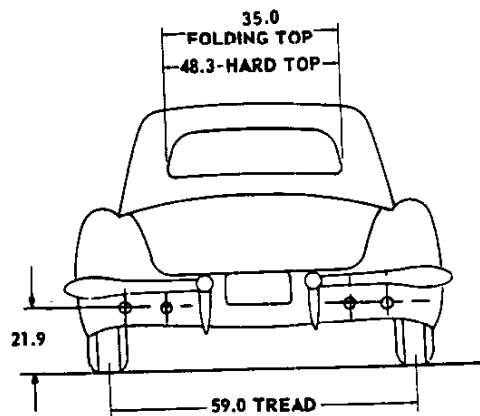
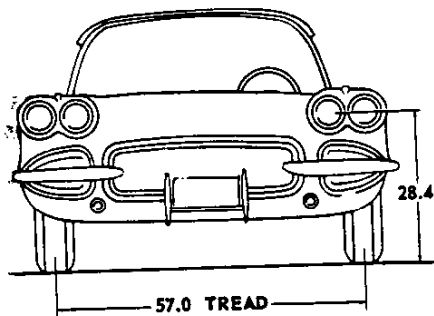


| | |
|--------------------------------------|----|
| EXTERIOR DIMENSIONS | 2 |
| INTERIOR DIMENSIONS | 3 |
| REGULAR EQUIPMENT | 4 |
| OPTIONAL EQUIPMENT | 5 |
| EXTERIOR - INTERIOR COLORS | 5 |
| GENERAL DATA | 6 |
| CHASSIS | 6 |
| HEAVY-DUTY CHASSIS | 8 |
| POWER TEAM COMBINATIONS | 9 |
| TRANSMISSIONS | 18 |

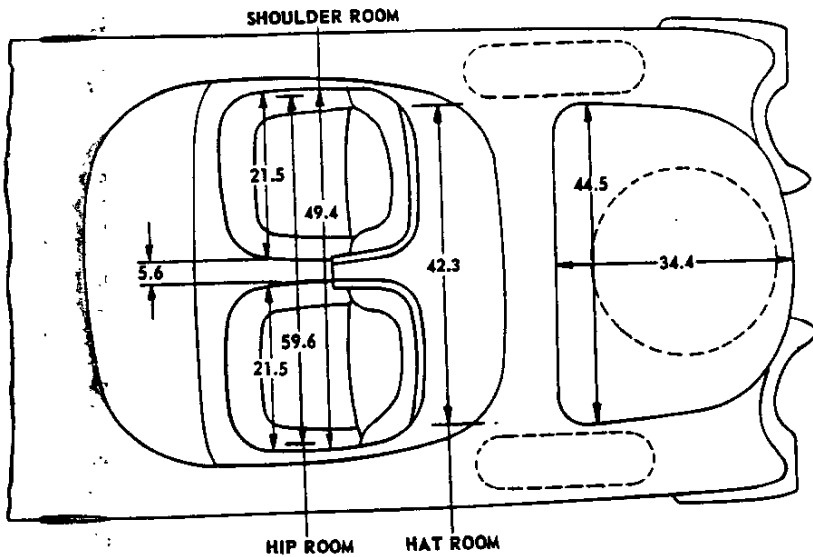
EXTERIOR DIMENSIONS



RAMP ANGLE - 7°47'

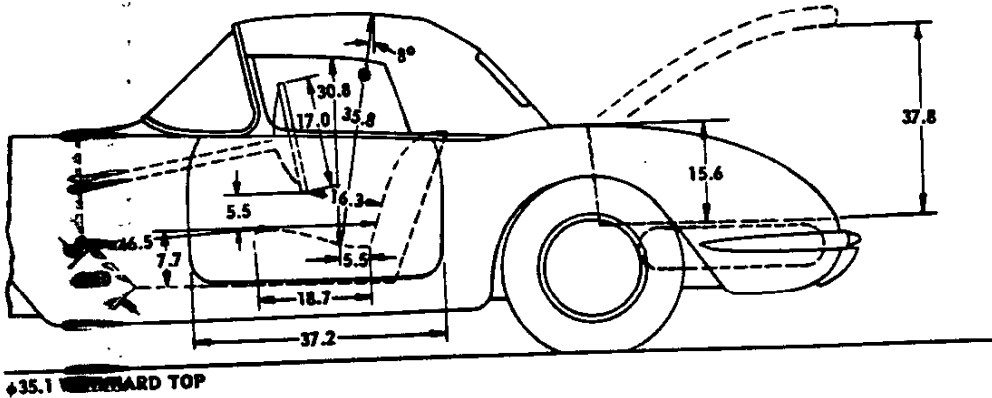


INTERIOR DIMENSIONS



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.



35.1 REARWARD TOP

• 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 | Roof Panel |
| | | 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° ± 0°30' |
| Caster ----- | 2° ± 0°30' |
| King pin inclination ----- | 3°30' - 4° - 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 (in⁴) ----- 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 ϕ

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

ϕ - 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 ----- 9.29x2.0x.175
 -secondary ----- 11.69x2.0x.175
 Rear-primary ----- 9.29x1.75x.175
 -Secondary ----- 11.69x1.75x.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**

| Ratios | Gear Combinations |
|--------|-------------------|
| 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 | POSITRACTION AXLE RATIO |
|------------------------------|------------------|----------------|-------------|-------------------------|
| 283 INCH V-8 | 4-BARREL | 3-SPEED..... | 3.36:1..... | 3.36, 4.11, 4.56 |
| 230 POWER | | 4-SPEED..... | 3.70:1..... | 3.70, 4.11, 4.56 |
| | | POWERGLIDE.... | 3.55:1 | |
| | | | | |
| 283 INCH V-8 | 2 X 4-BARREL | 3-SPEED..... | 3.36:1..... | 3.36, 4.11, 4.56 |
| 245 POWER RPO 469 | | 4-SPEED..... | 3.70:1..... | 3.70, 4.11, 4.56 |
| | | POWERGLIDE.... | 3.55:1 | |
| | | | | |
| 283 INCH 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 INCH V-8 | FUEL INJECTION | 3-SPEED..... | 3.36:1..... | 3.36, 4.11, 4.56 |
| 270 POWER RPO 353 | | 4-SPEED..... | 3.70:1..... | 3.70, 4.11, 4.56 |
| | | | | |
| 283 INCH V-8 | FUEL INJECTION | 3-SPEED..... | 3.36:1..... | 3.36, 4.11, 4.56 |
| 315 POWER RPO 354 | 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 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 bottom 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 Production | Dual 4-barrel | | Fuel injection | |
|----------------|---------------------|---------------|---------------|----------------|------------------|
| | | 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

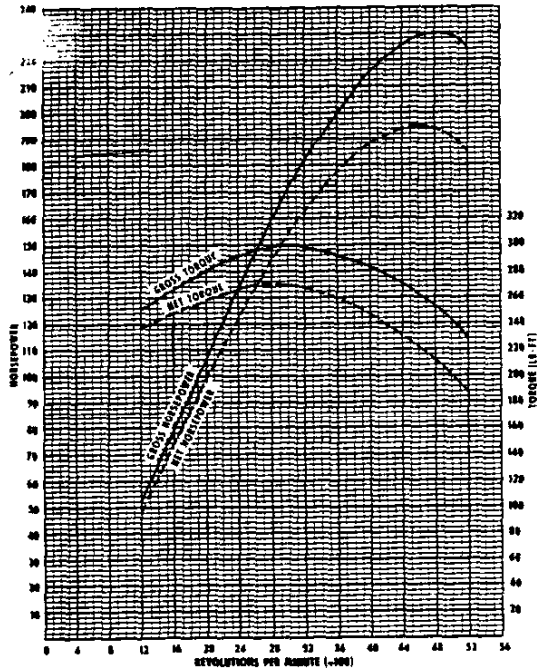
Performance Weight = Curb Weight plus 300 Lb
(weight of two 150 Lb passengers)

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

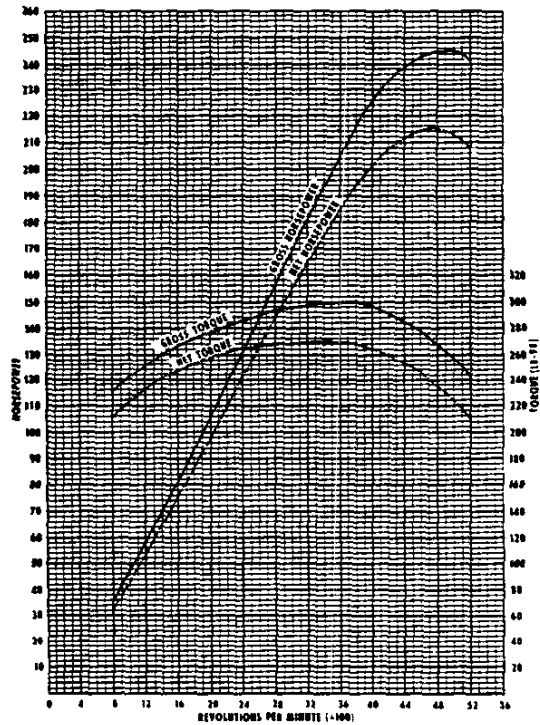
Displacement Factor = $\frac{\text{Power Displacement}}{\text{Performance Wt (tons)}}$

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



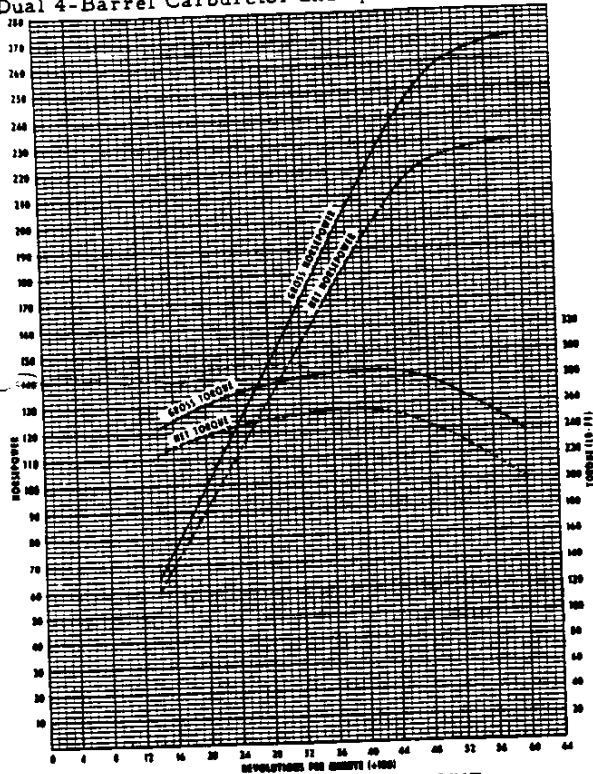
The engine performance curves represent full throttle performance as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and standard temperature of 60°F.

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

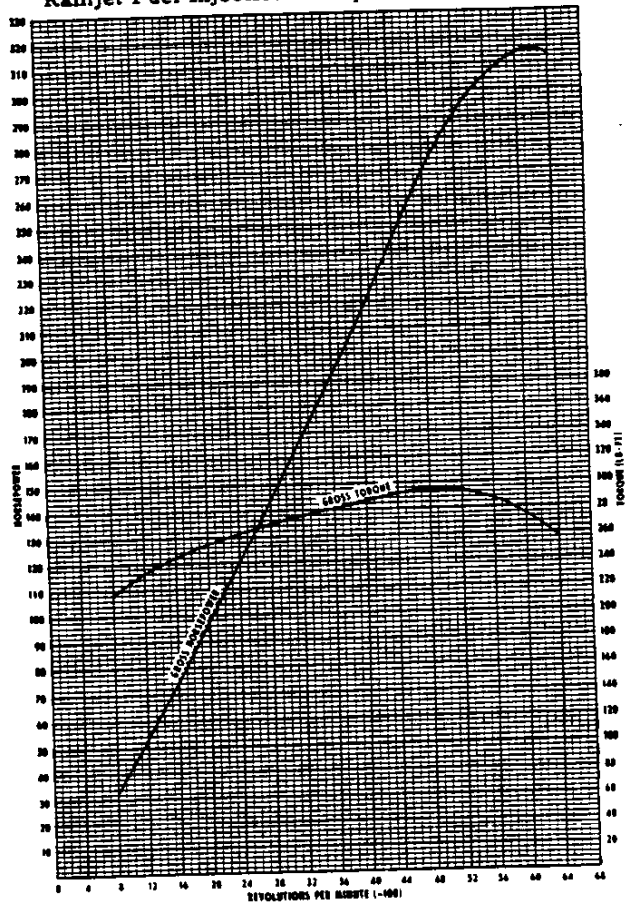
system, no fan, generator not charging, optimum spark advance, and optimum fuel setting.

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.

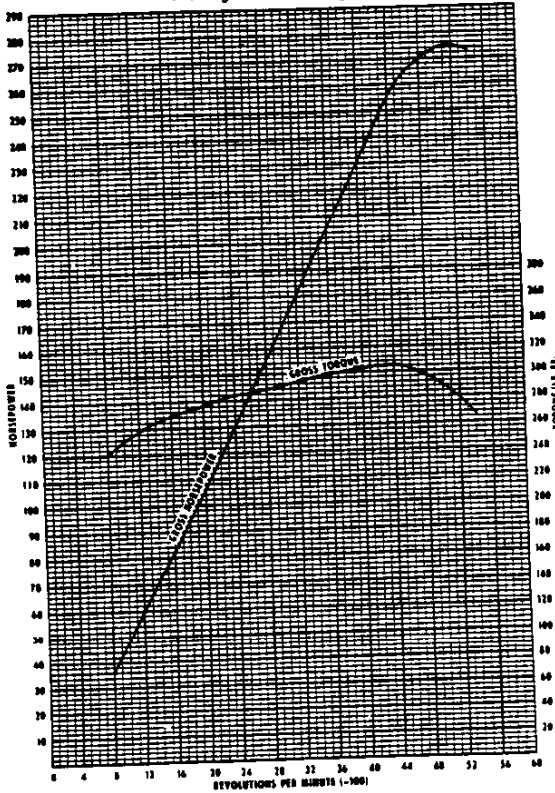
270 HORSEPOWER V-8 ENGINE
Dual 4-Barrel Carburetor and Special Camshaft



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



275 HORSEPOWER V-8 ENGINE
Ramjet Fuel Injection



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, Inlet2625
Exhaust2665
Valve Lift, Inlet39375
Exhaust39975
Valve Lift, Inlet (special)012
Exhaust018
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

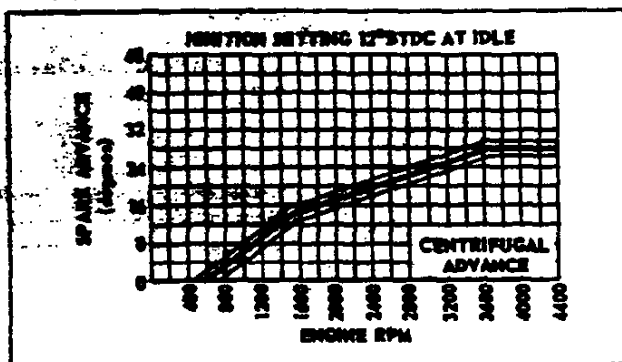
OIL CONTROL RINGS (special camshaft)
Material Cast alloy iron
Width1860-.1865
Gap010-.020
Wall thickness152-.158

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

16-CORVETTE

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)

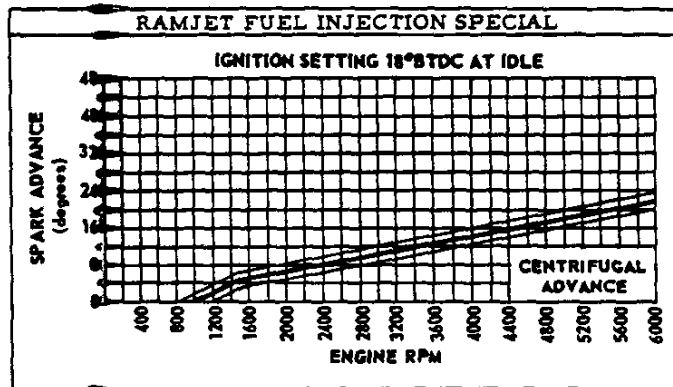
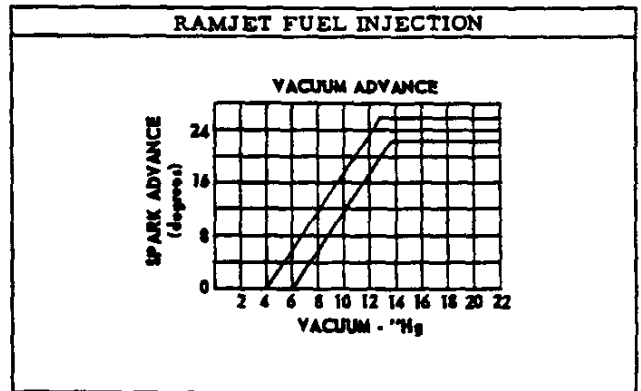
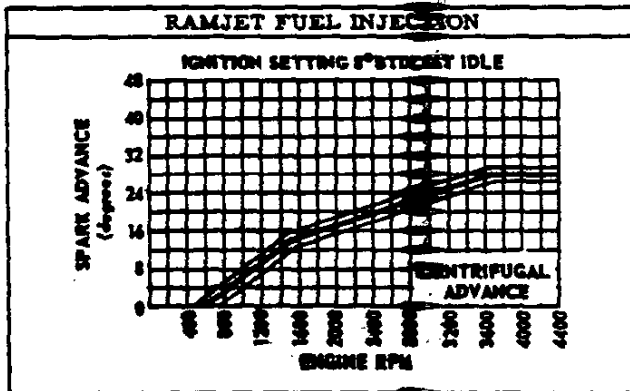
Crankshaft Degrees (initial setting) ----- 4° BTC

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.

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

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.

TABLE OF CONTENTS

| | | | |
|------------------------------------|------------------------------------|------------------------------|-----------------------------------|
| General Specifications 1 | Drive Units 13 | Rear Suspension 19 | Body & Car - General 26 |
| Engines - Mechanical 2 | Brakes 16 | Body Dimensions 20 | Weights 27 |
| Electrical 8 | Front Suspension & Steering . . 17 | Station Wagon 25 | Index 28 |

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

ORIGINAL COPY

Vertical text on the left side of the page, possibly a page number or header.

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) | 82 | 102.0 |
| Tread | Front (84-884) | 57.0 |
| | Rear (84-882) | 59.0 |
| Maximum Overall Dimensions | Length (84-800) | 176.7 |
| | Width (84-803) | 70.4 |
| | Height (84-901) | 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 | 816 | 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 | | Fuel Injection | | | | | | |
| HORSEPOWER | | 230 HP | | Reg Cam | | Spec Cam | | Reg Cam | | Spec Cam | | | | |
| ENGINE | | GENERAL | | 245 HP | | 270 HP | | 275 HP | | 315 HP | | | | |
| 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 | 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 | Front | | | Two | | | | | | | | | | |
| | Rear | | | One | | | | | | | | | | |
| Fi | Installation angle | | | 1° | | | | | | | | | | |
| 1 | Dia. 2 x No. T-9 | | | 48.0 | | | | | | | | | | |
| max. bhp* | 230 @ | | 245 @ | | 270 @ | | 275 @ | | 315 @ | | | | | |
| | 4800 | | 5000 | | 6000 | | 5200 | | 6200 | | | | | |
| max. torque* | 300 @ | | 300 @ | | 285 @ | | 305 @ | | 295 @ | | | | | |
| | 3000 | | 3800 | | 4200 | | 4400 | | 47-5100 | | | | | |
| Recommended fuel | | | Premium | | | | | | | | | | | |
| road (spec. Manual | 475 (a) | | | 600 | | 475 | | 600 | | | | | | |
| | 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
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

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 |

ENGINE PISTONS (Cont.)

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

ENGINE-RINGS

| | | | |
|---------------------------------|---|---|-----------------|
| Function (top to bottom) | 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 | |
| Compression | 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 | |
| Oil | 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 |
| Expansion | In oil ring assembly | | |

ENGINE-PISTON PINS

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

ENGINE-CONNECTING RODS

| | | |
|----------------------------------|--------------------|---|
| Material | | Drop forged steel |
| Weight (oz.) | | 19.02 |
| Length (center to center) | | 5.699-5.701 |
| Bearing | 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 CHEVROLET | | MODEL YEAR 1961 | | DATE: ISSUED 10-7-60 | | REVISED _____ | |
| MODEL Corvette | | 4-barrel | | 2x4-barrel | | Fuel Injection | |
| | | Reg. cam | | Spec. cam | | Reg. cam | |
| | | | | | | Spec. cam | |

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 | | 46 | | | |
| | | Width | | .875 | | | |
| | | Pitch | | .500 | | | |

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)

Rev. Form 3-59

(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 | | | | |
| 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 damper | 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 damper | Valve closed (lb. @ in.) | Valve spring damper 5-10 lb. | | | |
| | | Valve open (lb. @ in.) | Valve spring damper 5-10 lb. | | | |

ENGINE—LUBRICATION SYSTEM

| | | |
|--|---------------------------|--------------|
| Type of lubrication (splash, pressure, nozzle) | Crank 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)

Rev. Form 3-59

AMA Specifications - Passenger Car

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

ENGINE LUBRICATION SYSTEM (cont.)

| | |
|---|---|
| Pump type | Gear |
| Oil pressure (lb. @ 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. & type (reverse flow, light thru, separator) | 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.

Rev. Form 3-59

(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.

THE UNIVERSITY OF CHICAGO
LIBRARY
1100 EAST 58TH STREET
CHICAGO, ILLINOIS 60637
TEL: 773-936-3000
WWW.CHICAGO.EDU

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 | |

Rev. Form 3-59

| | |
|-------------------------|-------------|
| * 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 | 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. | | | | | |

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 5, dual headlight 2-4001, 2-4002.
Indicate accessories which are not standard equipment by an asterisk following the numbers.

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

AMA Specifications - Passenger Car

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 same 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 | |
| Height above ground to center of bulb | 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 style="text-align: center;">1.82 and 1.00:1 (a)</td> </tr> <tr> <td>Low</td> <td style="text-align: center;">1.82:1</td> </tr> <tr> <td>Reverse</td> <td style="text-align: center;">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

MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE: ISSUED 10-7-60 REVISED (a)
 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.)*** | | 259 | 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 |
| | | | 2.0 x 1.0 x .175 |
| | Rear shoe | Material | Full molded asbestos comp. |
| | | Size (length x width x thickness) | Sintered iron |
| | | | 2.0 x 1.0 x .295 |
| Segments per shoe | | 1 | 6 |
| 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 Camaro

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 Rear |
| | Type & material | 11 11 Composite; cast alloy iron rim pressed steel web |
| Brake cooling at each wheel | Vanes 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 |
| | | Rear wheel |
| Lining | Segments per shoe | 1.64 x 1.25 x .175 |
| | | 1.64 x 1.25 x .295 |
| Rear | Attachment | Riveted |
| | Material | Sintered iron |
| Shoe | Size | Front wheel |
| | | Rear wheel |
| Lining | Segments per shoe | 2.0 x .875 x .175 |
| | | 2.0 x .875 x .295 |
| Wheel cyl. bore | Front Rear | Primary 6; secondary 12 Primary 6; secondary 10 |
| Master cylinder bore | 1.125 0.875 | |
| Available pedal travel | 1.0 | |
| Line pressure @ 100 lb pedal load | 4.5 | |
| Shoe clearance adjustment | 700 psi | |
| | Adjust to slight drag, back off 17 notches | |

* - RPO 687 includes fast steering adapter.

Vertical text line, possibly a page number or header, located near the top center of the page.

Vertical text line, possibly a page number or header, located to the left of the center.

Vertical text line, possibly a page number or header, located further to the left.

Vertical text line, possibly a page number or header, located on the far left side.

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 has a 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 |
| Stabilizer | Design load (lb. @ design height) | 1235 @ 9.62 |
| | 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)

Rev. Form 3-59

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 | |

Rev. Form 3-59

(a) - Regular production equipment.

AMA Specifications – Passenger Car

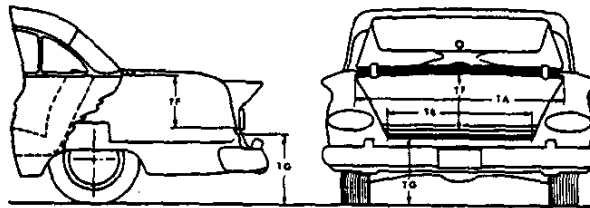
MAKE OF CAR CHEVROLET MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED _____

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.

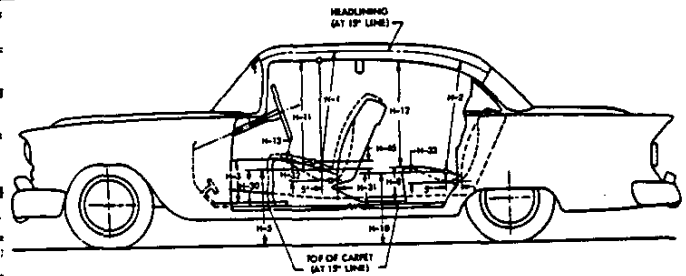
BODY – TRUNK DIMENSIONS



| 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



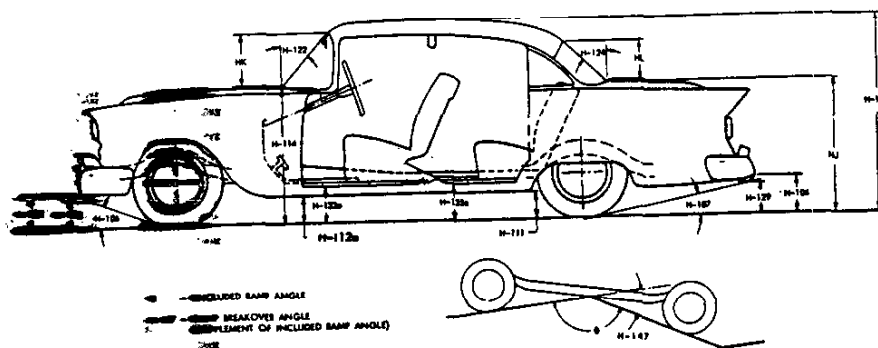
| MODEL | Corvette |
|---|---------------------------------------|
| H1. Front headroom. Free "A" pt. to headlining at 8° back of seat. (For "A" pt. see note 3, page 20) | Convertible - 37.1 Hardtop - 36.90 |
| H2. Rear headroom. Free "A" pt. to headlining at 8° back of seat. | -- |
| H3. Front cushion height to floor carpet at front edge of cushion. (on risers) | 7.7 |
| H5. Free "A" pt. to ground front. Measured vertically | 16.0 |
| H8. Rear cushion height to floor carpet at front edge of cushion. (on 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 seat height, front. Vertical dimension to 19" horizontal reference line | 5.2 |
| H31. Free "A" point to seat height, rear. Vertical dimension to 19" 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

Page 22

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

* See Note, page 20

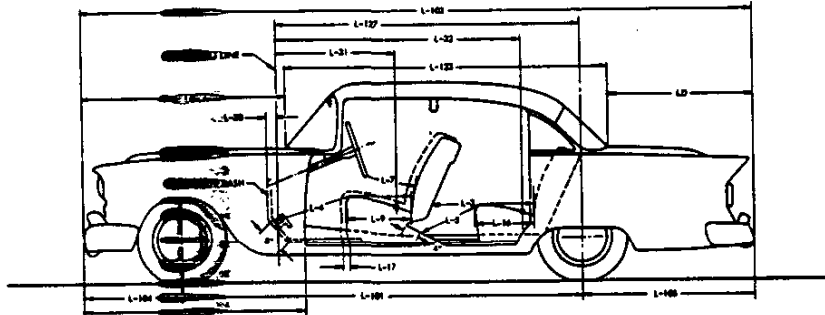
Form Rev. 6-60

- (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



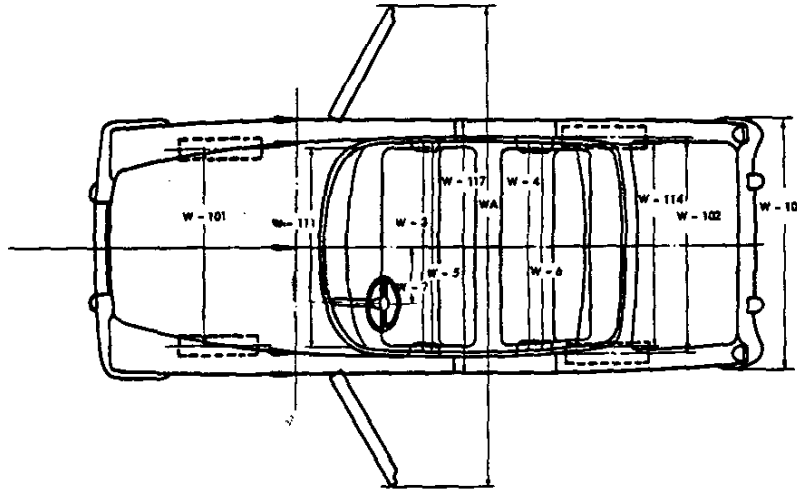
| MODEL | | Corvette |
|--|---|----------|
| Interior | L3. Rear compartment room. Back of front seat back to front of rear seat back | -- |
| | L4. Leg room, front. Ball of foot to top of seat to seat back | 46.4 |
| | L5. Leg room, rear. Ball of foot to top of seat to seat back | -- |
| | L7. Steering 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 | | |
|----------|--|--------------------------------|
| | Corvette | |
| 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 |

INDEX

| SUBJECT | PAGE NO. | SUBJECT | PAGE NO. |
|--------------------------------------|------------------|--------------------------------------|------------------|
| Air Suspension | 17 | Lamp Bulbs | 11 |
| Angles of Approach, Departure | 22 | Lamp Height & Spacing | 12 |
| Automatic Transmission | 1, 14 | Legroom | 23 |
| Axis, Steering | 19 | Lengths – Car, & Body Interior | 1, 23 |
| Axle, Rear | 1, 15 | Lifters, Valve | 4 |
| | | Linings – Clutch, Brake | 13, 16 |
| Battery | 8 | Lubrication | 5, 6, 13, 14, 15 |
| Bearings, Engine | 3, 4, 7 | Motor, Starting | 8 |
| Belts – Fan, Generator, Water Pump | 7 | Muffler | 6 |
| Body – General Information, Types | Title, 20 | Overdrive | 14 |
| Height Dimensions | 21, 22 | Piston Pins & Rings | 3 |
| Length Dimensions | 23 | Pistons | 2, 3 |
| Overall Dimensions | 1, 22, 23, 24 | Power Brakes | 16 |
| Trunk Capacities, Opening Dimensions | 20 | Power Steering | 18 |
| Width Dimensions | 24 | Propeller Shaft, Universal Joints | 15 |
| Brakes – Parking, Service, Power | 16, 17 | Pumps – Oil, Fuel | 6 |
| | | Water | 7 |
| Camber | 19 | Radiator, Hoses | 7 |
| Camshaft | 4 | Ramp Break-over Angle | 22 |
| Capacities | | Ratios – Axle | 1, 15 |
| Cooling System | 7 | Compression | 1, 2 |
| Fuel Tank | 6 | Steering | 18 |
| Lubricants | | Transmission | 13, 14 |
| Engine Crankcase | 6 | Rear Axle | 1, 15 |
| Transmission and Overdrive | 13, 14 | Regulator – Generator | 8 |
| Rear Axle | 15 | Rims | 16 |
| Carburetor | 6 | Rings, Piston | 3 |
| Caster | 19 | Rods – Connecting | 3 |
| Choke, Automatic | 12 | Shock Absorbers, Front & Rear | 17 |
| Circuit Breakers, Fuses | 22 | Spark Plugs | 9 |
| Clearance, Ground | 13 | Speedometer | 10 |
| Clutch – Pedal Operated | 9 | Springs – Front & Rear Suspension | 18, 19 |
| Coil, Ignition | 3 | Valve, Engine | 5 |
| Connecting Rods | 7 | Stabilizer (Sway Bar) – Front & Rear | 18, 19 |
| Cooling System | 4 | Starting Motor | 8 |
| Crankshaft | 2 | Steering | 18, 19 |
| Cylinders and Cylinder Head | 2 | Suppression – Ignition, Radio | 9 |
| | | Suspension – Front & Rear | 17, 18, 19 |
| Distributor – Ignition | 9 | Switches | 10 |
| Electrical System | 8, 9, 10, 11, 12 | Tailpipe | 6 |
| Engine | | Thermostat, Cooling | 7 |
| Bore, Stroke, Displacement, Type | 1, 2 | Timing, Engine & Valve | 4, 5, 9 |
| Compression Ratio | 1, 2 | Tires | 1, 16 |
| Firing Order, Cylinder Numbering | 2, 9 | Toe in | 19 |
| General Information, H.P. & Torque | 1, 2 | Torque Converter | 14 |
| Lubrication | 5, 6 | Torque – Engine, Rated | 1, 2 |
| Exhaust System | 6 | Transmission – Types | 1, 13, 14 |
| | | Automatic | 1, 14 |
| Fan, Cooling | 7 | Manual & Overdrive | 13, 14 |
| Filters – Engine Oil, Fuel System | 6 | Ratios | 13, 14 |
| Frame | 17 | Tread | 1, 24 |
| Front Suspension | 17, 18 | Turning Diameter | 18 |
| Fuel, Fuel Pump, Fuel System | 1, 2, 6 | Unitized Construction | 17 |
| Fuel Injection | 1, 6 | Universal Joints, Propeller Shaft | 15 |
| Fuses, Circuit Breakers | 12 | Valves – Intake & Exhaust | 4, 5 |
| | | Vibration Damper | 4 |
| Generator and Regulator | 8 | Voltage Regulator | 8 |
| Glass | 22, 24, 26 | Water Pump | 7 |
| Height (Lamps) | 12 | Weights – Shipping, Curb | 27 |
| Headroom – Body | 21 | Wheel Alignment | 19 |
| Heights – Car & Body | 1, 21, 22 | Wheelbase | 1, 23 |
| Hood | 26 | Wheels & Tires | 16 |
| Horns | 10 | Wheel Spindle | 19 |
| Horsepower – Brake, Rated, Taxable | 1, 2 | Widths – Car & Body | 1, 24 |
| Ignition System | 9 | Windshield | 22, 24, 26 |
| Inflation – Tires | 16 | Windshield Wiper | 10 |
| Instruments | 6, 10 | | |
| Kingpin (Steering Axis) | 19 | | |