

AMA Specifications—Passenger Car

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| | | | |
|-----------------|--|--------------|-----------|
| MANUFACTURER | Chevrolet Motor Division General Motors Corporation | CAR NAME | CHEVROLET |
| MAILING ADDRESS | Chevrolet Engineering Center 30003 Van Dyke, Warren, Michigan 48090 | MODEL YEAR | 1966 |
| | | ISSUED: | 10/7/65 |
| | | REVISED (19) | |

- NOTES:
- The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
 - UNLESS OTHERWISE INDICATED.
 - Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - Nominal design dimensions are used throughout these specifications.

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| BODY—TYPES AND STYLE NAMES— | Body type, number of passenger & style names; use manufacturer's code for series & body style. | | | |
|---------------------------------|--|-------------------|-----------------------|---------------------|
| | 250 Cu. In. L6-155 HP Standard | 283 Cu. In. | | 327 Cu. In. |
| | | V8-195 HP Std. | V8-220 HP RPO L-77 | V8-275HP RPO L30 |
| BISCAYNE | | | | |
| 2-Door Sedan 6-Passenger | 15311 | | 15411 | |
| 4-Door Station Wagon 2-Seat | 15335 | | 15435 | |
| 4-Door Sedan 6-Passenger | 15369 | | 15469 | |
| BEL AIR | | | | |
| 2-Door Sedan 6-Passenger | 15511 | | 15611 | |
| 4-Door Station Wagon 2-Seat | 15535 | | 15635 | |
| 4-Door Station Wagon 3-Seat | 15545 | | 15645 | |
| 4-Door Sedan 6-Passenger | 15569 | | 15669 | |
| IMPALA | | | | |
| 4-Door Station Wagon 2-Seat | 16335 | | 16435 | |
| 2-Door Sport Coupe 5-Passenger | 16337 | | 16437 | |
| 4-Door Sport Sedan 6-Passenger | 16339 | | 16439 | |
| 4-Door Station Wagon 3-Seat | 16345 | | 16445 | |
| 2-Door Convertible 5-Passenger | 16367 | | 16467 | |
| 4-Door Sedan 6-Passenger | 16369 | | 16469 | |
| IMPALA SUPER SPORT | | | | |
| 2-Door Sport Coupe 4-Passenger | 16737 | | 16837 | |
| 2-Door Convertible 4-Passenger | 16767 | | 16867 | |
| CAPRICE | | | | |
| 4-Door Custom Wagon 2-Seat | - | | 16635 | |
| 4-Door Custom Sedan 6-Passenger | - | | 16639 | |
| 4-Door Custom Wagon 3-Seat | - | | 16645 | |
| 2-Door Custom Coupe 4-Passenger | - | | 16647 | |

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

| MODEL | | Additional Information Page No.: | 15300-500 16300-700 250 Cu. In. L6 Std. | 15400-600, 16400-600, 16800 283 Cu. In. V-8 Standard RPO L77 | | | 327 Cu. In. V-8 RPO L30 |
|--|----------------------------|-------------------------------------|---|--|---------------|-------------------------------------|---------------------------------------|
| Wheelbase (L101) | | | 119.0 | | | | |
| Track | Front (W101) | | 62.5; Wagons, 63.5 | | | | |
| | Rear (W102) | | 62.4; Wagons, 63.4 | | | | |
| Maximum Overall Dimensions | Length (L103) | | 213.2; Wagons, 212.4 | | | | |
| | Width (W103) | | 79.6; Bel Air Models 80.0 | | | | |
| | Height (H101) | | Sedans 55.4 | Coupes 54.4 | Conv. 55.3 | Sp. Sed. 54.5 | Wagons 56.7 |
| Transmission (Specify trade name - opt., not available) | Manual - 3 speed | 15 | Standard | | | | |
| | Manual - 4 speed | 15 | N.A. | | Optional | | |
| | Overdrive | 15 | Optional | | | | N.A. |
| | Automatic | 16 | Powerglide - Optional | | | | |
| Axle ratio | Manual - 3 speed | 17 | Cps. & Sed 3.08 Convertible 3.36 Sta. Wag. 3.55 | 15400-600 Sedans 3.08 All other Models 3.36 | | All Exc. S.W. 3.31 St. Wag. 3.31 | |
| | Manual - 4 speed | 17 | N.A. | | 3.36:1 | | Same as 3-Speed |
| | Overdrive | 17 | 3.70 | | | | N.A. |
| | Automatic | 17 | Same as 3-Speed | | | | All Except S.W. 3.08 St. Wag. 3.07 |
| Tire size | | 18 | 7.35 x 14 (a) | 7.75 x 14 (b) | 8.55 x 14 (c) | | |
| Engine | Type, no. cyl., valve arr. | 3 | In-line 6 OHV | | 90° V-8 OHV | | |
| | Fuel system (Carb., other) | 10 | Carburetor | | | | |
| | Bore and stroke | 3 | 3.875 x 3.53 | | 3.875 x 3.00 | | 4.001 x 3.25 |
| | Piston displ., cu. in. | 3 | 250 | | 283 | | 327 |
| | Sqd. compression ratio | 3 | 8.5:1 | | 9.25:1 | | 10.5:1 |
| | Max. bhp at engine rpm | 3 | 155 @ 4200 | 195 @ 4800 | 220 @ 4800 | 275 @ 4800 | |
| | Max. torque at rpm | 3 | 235 @ 1600 | 285 @ 2400 | 295 @ 3200 | 355 @ 3200 | |

- (a) 250 Cu. In. 6-cyl. Biscayne, 2 and 4-door sedans, Bel Air 2-Door sedans.
 (b) 283 and 327 V-8 models except wagons.
 (c) All Station Wagons.

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GENERAL SPECIFICATIONS—DIMENSIONS

(All dimensions in inches unless otherwise indicated)
(Supplemental data available on request)

| MODEL | SAE Ref. No. | Sedans | | Sport Sedans | Sp. Coupes | | Convert. | St. Wagons |
|-------|--------------|--------|-------|--------------|------------|----|----------|------------|
| | | 2-Dr. | 4-Dr. | | 37 | 47 | | |

FRONT COMPARTMENT

| | | | | | | | |
|----------------------------------|-----|------|------|------|------|------|------|
| Shoulder room | W3 | 62.3 | | 62.4 | | 62.3 | |
| Kip room | W5 | 63.9 | 63.7 | | | 63.9 | |
| Max. eff. leg room - accelerator | L34 | 42.2 | | 42.3 | 42.0 | 42.1 | |
| Effective head room | H61 | 39.1 | 38.1 | 38.2 | 37.6 | 38.8 | 39.2 |
| Point to Heel point | H30 | 9.0 | | 9.2 | 9.4 | 9.3 | 9.2 |

REAR COMPARTMENT

| | | | | | | | |
|----------------------------|-----|------|------|------|------|------|------|
| Shoulder room | W4 | 60.7 | 61.3 | 61.0 | 53.1 | 61.4 | |
| Kip room | W6 | 62.2 | 62.9 | 63.0 | 55.5 | | 63.2 |
| Minimum effective leg room | L51 | 38.9 | 39.5 | 38.5 | 34.9 | 36.3 | 34.9 |
| Effective head room | H63 | 37.8 | 37.3 | | 37.2 | 37.4 | 37.8 |

LUGGAGE COMPARTMENT

| | | | | | | | |
|--------------------------------|------|-------------------------------|------|-----------------------------------|------|------|----------|
| Usable luggage capacity | V1 | 18.3 | | 17.3 | 20.7 | — | |
| Lidover height | H195 | 24.8 | 24.8 | 24.8 | 24.8 | 25.3 | 24.7 (a) |
| Position of spare tire storage | | Trunk Shelf | | Trk. Floor Rt. Rr. Qtr. Unver/Cvr | | | |
| Method of holding lid open | | Torsion Bars Counter Balanced | | | | | |

STATION WAGON—THIRD SEAT

| | | | | | | | |
|-----------------------|-----|----------|--|--|--|--|--|
| Kip room | W86 | 49.2 | | | | | |
| Effective leg room | L86 | 33.3 | | | | | |
| Effective head room | H86 | 36.2 | | | | | |
| Seat facing direction | | Rearward | | | | | |

STATION WAGON—CARGO SPACE

| MODEL | SAE Ref. No. | 153-154-155-156-163-164-16635, 45 |
|---|--------------|-----------------------------------|
| Minimum distance between wheel houses at floor level | W201 | 49.7 |
| Rear end opening width at belt | W204 | 52.4 |
| Floor length from back of front seat at floor level to inside of closed tail gate | L202 | 96.0 |
| Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt | L204 | 86.0 |
| Maximum height - floor covering to headlining at centerline of rear axle | H201 | 30.7 |
| Maximum height of rear opening - tail and lift gates open | H202 | 28.8 |
| Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$ | V2 | 94.1 |

(a) 23.5 on 3-Seat Wagons.

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| | | | | | | | |
|-------------|-------------------------|------------|------|-----------------------------|---------|--------------------------|--|
| MAKE OF CAR | CHEVROLET | MODEL YEAR | 1966 | DATE ISSUED | 10-7-65 | REVISED (*) | |
| | 15300-500, 16300-700 | | | 15400-600, 16400-600, 16800 | | | |
| MODEL | 250 cu in L6 Standard | | | 283 cu in V-8 Standard | RPO L77 | 327 cu in V-8 RPO L30 | |

ENGINE—GENERAL

| | | | | |
|--|-----------------|----------------|-----------------|--------------------------|
| Type, no. cyls., valve arr. | In-line 6 OHV | | 90° OHV V-8 | |
| Bore and stroke (nominal) | 3.875 x 3.53 | | 3.875 x 3.00 | 4.00 x 3.25 |
| Piston displacement, cu. in. | 250 | | 283 | 327 |
| Bore spacing (C/L to C/L) | 4.40 | | 4.40 | |
| No. system (front to rear) | L. Bank | 1-2-3-4-5-6 | 1-3-5-7 | |
| | R. Bank | (In-line) | 2-4-6-8 | |
| Firing order | 1-5-3-6-2-4 | | 1-8-4-3-6-5-7-2 | |
| Compres. ratio (nominal) | 8.5:1 | | 9.25:1 | 10.5:1 |
| Cylinder Head Material | Cast Alloy iron | | | |
| Cylinder Block Material | Cast Alloy iron | | | |
| Cylinder Sleeve-Wet, dry, none | None | | | |
| Number of mounting points | Front | Two | | |
| | Rear | One | | |
| Engine installation angle | 3° 54' | | | |
| Taxable $\frac{\text{Dia}^2 \times \text{No. Cyl.}}{\text{horsepower} \times 2.5}$ | 36.0 | | 48.0 | 51.2 |
| Publishing max. bhp* @ eng. RPM | 155 @ 4200 | | 210 @ 4800 | 220 @ 4800 275 @ 4800 |
| Publishing max. torque* (lb. ft. @ RPM) | 235 @ 1600 | | 290 @ 3200 | 295 @ 3200 355 @ 3200 |
| Recommended fuel regular - premium | Regular | | | Premium |
| Idle speed (spec. neutral or drive) | Manual | 500 in neutral | | |
| | Automatic | 500 in drive | 475 in drive | |

ENGINE—PISTONS

| | | | | |
|--------------------------|-----------------------------------|-------------|-----------------|-------------|
| Material | Cast aluminum alloy | | | |
| Description and finish | Flat, notched head, slipper skirt | | | |
| Weight (piston only) oz. | 20.80 | | 20.30 | 21.60 |
| Clearance (limits) | Top land | .0345-.0435 | | .0365-.0455 |
| | Skirt | Top | .0005-.0011 (a) | |
| | | Bottom | .0005-.0011 (b) | |
| Ring groove depth | No. 1 ring | .2153-.2218 | | .2217-.2283 |
| | No. 2 ring | .2153-.2218 | | .2217-.2283 |
| | No. 3 ring | .2093-.2158 | | .2038-.2103 |
| | No. 4 ring | None | | |

* Max. bhp (brake horsepower) and max. torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

(a) Measured at 2.44 from top of piston

(b) Measured at 2.24 from top of piston

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POWER TEAMS

(Indicate whether standard or optional)

| MODEL AVAILABILITY | ENGINE | | | | | TRANSMISSION | "A" | "B" | "C" | "D" |
|--|----------------|--------------------------------|--------------|-----------|--------------|--|--|------|------|------|
| | Diapl. cu. in. | Carburetor | Compr. Ratio | BHP @ RPM | Torque @ RPM | | AXLE RATIO (Std. First) (Indicate A/C ratio) | | | |
| 15300 15500 16300 16700 | 250 | 1-Bbl Down-draft | 8.5:1 | 155 | 235 | 3-Spd & Pwr/Gld.* Coupes & Sedans Convertibles Station Wagons Overdrive * All models | 3.08 | 3.55 | 3.36 | 3.36 |
| @ | | | | @ | 3.36 | | 3.55 | - | 3.36 | |
| 4200 | | | | 1600 | 3.55 | | - | - | 3.55 | |
| | | | | | 3.70 | | - | - | 3.70 | |
| 15400 15600 16400 16600 16800 | 283 | 2-Bbl Down-draft | 9.25:1 | 195 | 285 | 3-Spd & Pwr/Gld* 15400-600 Sedans All other models Overdrive * All models | 3.08 | 3.55 | 3.36 | 3.36 |
| @ | | @ | | 3.36 | 3.55 | - | 3.36 | | | |
| 4800 | | 2400 | | 3.70 | - | - | 3.70 | | | |
| 220 | | 295 | | 3.36 | - | - | 3.36 | | | |
| 16400 16600 16800 | * | 4-Bbl* Down-draft | 10.5:1 | @ | @ | 4-Speed * All models | 3.36 | - | - | 3.36 |
| 4800 | | 3200 | | 3.08 | - | - | 3.36 | | | |
| | 327 | Quadra-Jet or 4-Bbl Down-draft | | 275 | 355 | 3-Spd - 4-Spd* All except St. Wag Station Wagons POWERGLIDE * All except St. Wag Station Wagons | 3.36 | - | - | 3.36 |
| | | | | @ | @ | | 3.36 | - | - | 3.31 |
| | | | | 4800 | 3200 | | 3.08 | - | - | 3.36 |
| | | | | | | | 3.07 | - | - | 3.31 |
| <p>A - General Purpose (Standard)</p> <p>B - Special Purpose or Mountain (Optional)</p> <p>C - Performance (Optional)</p> <p>D - Air Conditioning</p> <p># - Positraction Axle Ratios available in combinations as shown</p> <p>* - Optional</p> | | | | | | | | | | |

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|-------------|--|---|---------|----------------------------|---------|---------|-----|
| MAKE OF CAR | CHEVROLET | MODEL YEAR | 1966 | DATE ISSUED | 10-7-65 | REVISED | (a) |
| MODEL | 15300-500, 16300-700 250 cu in L6 Std. | 15400-600, 16400-600, 16800 283 Cu. In. V-8 Standard | RPO L77 | 327 Cu. In. V-8 RPO L30 | | | |

ENGINE—RINGS

| | | | |
|--------------------------------|---|---|-------------------------------|
| Function (top to bottom) | No. 1, oil or comp. | | Compression |
| | No. 2, oil or comp. | | Compression |
| | No. 3, oil or comp. | | Oil |
| | No. 4, oil or comp. | | None |
| Compression | Description - Upper material, coating, etc. | Upper | Cast alloy iron, chrome plate |
| | Lower | Cast alloy iron; wear resistant coating | (a) |
| | Width | .0620-.0625 | .0775-.0780 |
| | Gap | .010-.020 .013-.023 | |
| Oil | Description - material, coating, etc. | Multi-piece (2 rails and one spacer expander) Spacer expander-steel Rails-Stainless steel chrome plated O. D. | |
| | Width | .1840-.1880 (assembled) | |
| | Gap | .015-.025 | .015-.055 |
| Expanders | 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. | Locked in rod | |
| | Bushing In rod or piston Material | None | |
| 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.) | 12.50 | 14.56 | |
| Length (center to center) | 5.699-5.701 | | |
| Bearing | Material & Type | Copper lead alloy or sintered copper nickel backed babbitt on steel | Premium aluminum |
| | Overall length | .807 | |
| | Clearance (limits) | .0007-.0027 | |
| | End play | .009-.013 | |

(a) Two piece; Cast alloy ring and steel expander.

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| | | | |
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| MAKE OF CAR CHEVROLET | MODEL YEAR 1966 | DATE ISSUED 10-7-65 | REVISED (a) |
| MODEL | 15300-500, 16300-700 250 cu in L6 Std. | 15400-600, 16400-600, 283 Cu. In. V-8 Standard | 16800 327 Cu. In. V-8 RPO L77 RPO L30 |

ENGINE—CRANKSHAFT

| | | | | |
|--|--|---|--|----------------|
| Material | Cst. Nodl. Iron | Nodular Iron or forged steel | Forged steel | |
| Vibration damper type | Rubber mounted inertia (a) | | | |
| End thrust taken by bearing (No.) | 7 | 5 | | |
| Crankshaft end play | .002-.006 | | | |
| Main bearing | Material & type | Copper lead alloy or sintered copper nickel backed babbitt on steel | Prem. alum. exc. no. 5 sintered cop. | |
| | Clearance | .0003-.0029 | *1-4).0003-.0029; (#5).0008-.0034/ (b) | |
| | Journal dia. and bearing overall length | No. 1 | 2.3004 x .752 | 2.3008 x .752 |
| | | No. 2 | 2.3004 x .752 | 2.3004 x .752 |
| | | No. 3 | 2.3004 x .752 | 2.3004 x .752 |
| | | No. 4 | 2.3004 x .752 | 2.3004 x .752 |
| | | No. 5 | 2.3004 x .752 | 2.3004 x 1.177 |
| | | No. 6 | 2.3004 x .752 | None |
| No. 7 | | 2.3004 x .752 | None | |
| Dir. & amt. cyl. offset | None | | | |
| Crankpin journal diameter | 1.999-2.000 | | | |

ENGINE—CAMSHAFT Above and to

| | | | |
|----------------------|---|---------------------------------|------|
| Location | right of Crk/shft | In block above crankshaft | |
| Material | Cast alloy iron | | |
| Bearings | Material | Steel backed babbitt | |
| | Number | 4 | |
| Type of Drive | Gear or chain | Gear | |
| | Crankshaft gear or sprocket material | Steel | |
| | Camshaft gear or sprocket material | Bakelite & Fabric with stl. hub | |
| | Timing chain | No. of links | None |
| | | Width | None |
| Pitch | | None | |

ENGINE—VALVE SYSTEM

| | | |
|---|------------------|--------|
| Hydraulic lifters (Std, opt, NA) | Standard | |
| Valve rotator, type (intake, exhaust) | None | |
| Rocker ratio | 1.75:1 | 1.50:1 |
| Operating taper clearance (indicate hot or cold) | Intake | Zero |
| | Exhaust | Zero |
| Timing marks on flywheel, damper, other | Torsional Damper | |

(a) Not used with forged steel on 283 Cu. In.
 (b) (#1-4) .008-.0034; (#5) .0010-.0036

(Continued)

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MODEL 15300-500, 16300-700, 250 Cu In L6 Std. 15400-600, 16400-600, 16800, 283 Cu In V-8 Standard 327 Cu In V-8 RPO L77 RPO L30

ENGINE—VALVE SYSTEM (cont.)

| | | | | |
|--------------------------------|---|-----------------------------|------------------|----------------------------------|
| Timing (Including Ramps) | Intake | Opens (°BTC) | 62° | 32° 30' |
| | | Closes (°ABC) | 94° | 87° 30' |
| | | Duration - deg. | 336° | 300° |
| | Exhaust | Opens (°BBC) | 92° 30' | 74° 30' |
| | | Closes (°ATC) | 63° 30' | 45° 30' |
| | | Duration - deg. | 336° | 300° |
| Valve opening overlap | | 125° 30' | 78° | |
| Material | | Alloy steel | | |
| Overall length | | 4.902-4.922 | 4.870-4.889 | |
| Actual overall head dia. | | 1.715-1.725 | 1.935-1.945 | |
| Angle of seat & face | | 46° (seat) 45° (face) | | |
| Seat insert material | | None | | |
| Stem diameter | | .3410-.3417 | | |
| Stem to guide clearance | | .0010-.0027 | | |
| Intake | Lift (@ zero lash) | | .3880 | .3987 |
| | Outer spring press. and length | Valve closed (lb. @ in.) | 56-64 @ 1.66 | 78-86 @ 1.66 |
| | | Valve open (lb. @ in.) | 180-192 @ 1.27 | 170-180 @ 1.26 |
| | Inner spring press. and length | Valve closed (lb. @ in.) | None | Spring Damper |
| | | Valve open (lb. @ in.) | None | Spring Damper |
| | Material | | High alloy steel | High alloy steel-aluminized face |
| Overall length | | 4.913-4.933 | | |
| Actual overall head dia. | | 1.495-1.505 | | |
| Angle of seat & face | | 46° (seat) 45° (face) | | |
| Seat insert material | | None | | |
| Stem diameter | | .3410-.3417 | | |
| Stem to guide clearance | | .0010-.0027 | | |
| Exhaust | Lift (@ zero lash) | | .3880 | .3987 |
| | Outer spring press. and length | Valve closed (lb. @ in.) | 56-64 @ 1.66 | 78-86 @ 1.66 |
| | | Valve open (lb. @ in.) | 180-192 @ 1.27 | 170-180 @ 1.26 |
| | Inner spring press. and length | Valve closed (lb. @ in.) | None | Spring Damper |
| | | Valve open (lb. @ in.) | None | Spring Damper |

ENGINE—LUBRICATION SYSTEM

| | | |
|--|----------------------|--|
| Type of lubrication (splash, pressure, nozzle) | Main bearings | Pressure |
| | Connecting rods | Pressure |
| | Piston pins | Splash |
| | Camshaft bearings | Pressure |
| | Tappets | Pressure |
| | Timing gear or chain | Nozzle |
| | Cylinder walls | Centrifugally oiled from frt. camshft. brng. Pressure jet cross sprayed |
| Con. rod brng throw-off | | (Continued) |

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| MODEL | 15300-500, 16300-700 250 cu in L6 Std. | 15400-600, 16400-600, 16800 283 cu in V-8 Standard | RPC L77 | 327 cu in V-8 RPO L30 | | | |

ENGINE—LUBRICATION SYSTEM (cont.)

| | | | |
|---|--|---------|--|
| Oil pump type | Gear | | |
| Normal oil pressure (lb. @ engine rpm) | 30-45 PSI @ 1500 RPM | | |
| Oil pressure sending unit (elect. or mech.) | Electric | | |
| Type oil intake (floating, stationary) | Stationary | | |
| Oil filter system (full flow, partial, other) | Full flow | | |
| Filter replacement (element, complete) | Complete | Element | |
| Capacity of crankcase, less filter-refill (qt.) | 4.0 | | |
| Oil grade recommended (SAE viscosity and 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 | | |
| Engine Service Requirement (MM, MS, etc.) | MS or DG | | |

ENGINE—EXHAUST SYSTEM

| Type (single, single with cross-over, dual, other) | Single | Single with crossover | Dual | Single with crossover |
|--|-------------------|-----------------------|----------------------|-----------------------|
| Muffler No. & type (reverse flow, straight thru, separate resonator) | One, reverse flow | | Two, with Resonators | One with resonator |
| Exhaust pipe dia. (O.D., wall thickness): Branch | | 2.0x.073-.091(a) | | 2.0x.073-.091(a) |
| Main | 2.0x.057-.071 | 2.0x.073-.091(a) | 2.50 x .073-.091 (a) | |
| Tail pipe diameter (O.D. & wall thickness) | 1.875 x .062-.076 | | 2.00 x .062-.076 | |

ENGINE—CRANKCASE VENTILATION SYSTEM

| Type (ventilates to atmos., induction system, other) | Standard | Optional | Ventilates to induction system |
|--|--|-------------------|--------------------------------|
| Control Unit | Make and model | | |
| | Location | Rr rocker covr. / | At rear of carburetor |
| | Energy source (manifold vacuum, carburetor air stream, other) | | Manifold vacuum |
| | Control method (variable orifice, fixed orifice, other) | | Variable |
| Complete system | Discharges (to intake manifold, carb. air intake, air cleaner intake, other) | | Intake manifold |
| | Air inlet (breather cap, carburetor air cleaner, other) | | Breather cap |
| | Flame arrester (screen, check valve, other) | | Check valve |

*SAE 5W-30 can be used as an alternate for 5W; 5W-20 or 10W-30

(a) Laminated

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| MODEL | 15300-500 | 15400-600, 16800 | | | | |
| | 16300-700 | 283 Cu In V-8 | | 327 Cu In V-8 | | |
| | 250 cu in L6 Std. | Standard | RPO-L77 | RPO L30 | | |

ENGINE—EXHAUST EMISSION CONTROL

| | | | | | | |
|---|--|---|--------------------------------|---------------|-----------------|--|
| Type (Air Injection, engine modifications, other) | | Air Injection | | | | |
| Air Injection Pump | Type | Semi-articulated vane type | | | | |
| | Displacement | 19.3 cubic inches | | | | |
| | Drive ratio | 1.25:1 | | | | |
| | Drive type | Crankshaft Pulley | | | | |
| | Relief valve (type) | Pressure (plate type) | | | | |
| Filter (describe) | | None (clean air drawn from air cleaner) | | | | |
| Air Injection System | Air distribution (head, manifold, etc.) | Head | Manifold | | | |
| | Point of entry | Exhaust Ports | | | | |
| | Injection tube I.D. | .2565 | | | | |
| | Check valve type | Pressure (plate type) (a) | | | | |
| Backfire protection (type) | | Vacuum actuated anti-backfire valve | | | | |
| Carburetor | Make | Carter | Rochester | | | |
| | Model (b) | 3880861 | 7036101 | 7036119 | 7036203 | |
| | Barrel size | 1.56 | 1.44 | 1.44 Pr & Sec | 1.38(P);2.25(S) | |
| | Idle speed | Drive | 600 for Automatic Transmission | | | |
| | | Neutral | 700 for Manual Transmission | | | |
| Aux. Adv. Systems (type) | | | | | | |
| Distributor | Make | Delco-Remy | | | | |
| | Model | 1110351 | 1111150 | 1111152 | | |
| | Cent'gal adv. in crank degrees @ eng. rpm. | Start (rpm) | 900 | | | |
| | | Intermed. points deg. @ rpm | | | | |
| | | Max. deg. @ rpm. | 28 @ 2800 | 28 @ 4200 | 26 @ 4100 | |
| | Vacuum adv. in crank degrees @ eng. rpm | Start (in. Hg) | 6" | 8" | | |
| Intermed. points deg. @ in. Hg | | | | | | |
| Max. deg. @ in. | | 21 @ 14.5" | 15 @ 15.5" | | | |
| Vacuum Source | | | | | | |
| Timing - Crank degrees @ rpm | | 6° @ 700 | 4° BTDC @ 700 | 8° BTDC @ 700 | | |
| Cooling System (describe changes) | | Radiator Fan Shroud added | | | | |
| Exhaust System (describe changes) | | L6-250 Muffler-Stainless steel used on shell and Baffles No. 3 & 4 | | | | |

(a) - Two check valves used on all V-8 Engines

(b) - Powerglide Models: - 250 Cu In (3880860); 283 Cu In Std (7036110)
283 Cu In RPO L77 (7036118); 327 Cu In L30 (7036202)

AMA Specifications—Passenger Car

| | | | | | | | |
|--------------------|--|---|---------|--------------------------|---------|----------------|-----|
| MAKE OF CAR | CHEVROLET | MODEL YEAR | 1966 | DATE ISSUED | 10-7-65 | REVISED | **1 |
| MODEL | 15300-500, 16300-700 250 cu in L6 Std. | 15400-600, 16800 283 cu in V-8 Standard | RPO L77 | 327 cu in V-8 RPO L30 | | | |

ENGINE—FUEL SYSTEM

(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)

| | | | |
|---|---|--|------------------|
| Induction type: Carburetor, fuel injection, supercharger. | | Carburetor | |
| Fuel Tank | Refill capacity (gals.) | 20 (24 on Station Wagons) approximately | |
| | Filler location | Behind hinged rear license plate (a) | |
| Fuel Pump | Type (elec. or mech.) | Mechanical | |
| | Locations | Lower right front of engine | |
| | Pressure range | 3.50-4.50 psi | 5.25-6.50 psi |
| Vacuum booster (std., optional, none) | | None | |
| Fuel Filter | Type | Fine mesh plastic strainer in gasoline tank and sintered bronze filter in carburetor inlet | |
| | Locations | Automatic | |
| Carburetor | Choke type | Exhaust | |
| | Intake manifold heat control (exhaust or water) | (Oil-wetted polyurethane) | Oil-wetted paper |
| | Air cleaner type | Standard Optional | None |

CARBURETOR SUPPLEMENTARY INFORMATION

| Model Usage | Engine Displ. | Transmission | Carburetors | | No. Used and Type | Barrel Size |
|---|----------------------------------|-------------------------------|-------------------------------------|--|--|---|
| | | | Make | Model | | |
| 15300 15500 16300 16700 | 250 | 3-Speed Powerglide | Rochester Rochester | 7026027 7026028 | One; Single Barrel | 1.56 |
| 15400 15600 16400 16600 16800 | | 3-Speed 4-Speed Powerglide | Rochester Rochester Rochester | 7024101 7024101 7024110 | One; two Barrel | |
| | 283 | 3-Speed 4-Speed Powerglide | Rochester Rochester Rochester | 7025127 7025127 7025126 | One; Four Barrel | 1.44 Primary & Secondary |
| | | 327 | 3-Speed 4-Speed | Holley Carter Rochester | 3876747(b) 3876749(b) 7026203(b) | |
| | Powerglide | | Holley Carter Rochester | 3875964(c) 3875966(c) 7026202(c) | One; Four Barrel Quad-jet | 1.562 Prim. & Secondary 1.39 Pr; 2.25 Sc. |
| | (b) - Optional (c) - Optional | | | | | |

(a) Left rear Quarter panel on Station Wagons

AMA Specifications—Passenger Car

| | | | | | | |
|-------------|--|--|---------|--------------------------|---------|------------------------|
| MAKE OF CAR | CHEVROLET | MODEL YEAR | 1966 | DATE ISSUED | 10-7-65 | REVISED ^(*) |
| MODEL | 15300-500, 16300-700 250 cu in L6 Std. | 15400-600, 16400-600, 16800 283 cu in V-8 Standard | RPO-L77 | 327 cu in V-8 RPO-L30 | | |

ENGINE—COOLING SYSTEM

| | | | | | | |
|---|--------------------------------|--|-----------------|-----------|--|--|
| Type system (pressure, pressure vented, atmospheric, other) | | Pressure | | | | |
| Radiator cap relief valve pressure | | 15± 1 PSI | | | | |
| Circulation thermostat | Type (choke, bypass) | Choke | | | | |
| | Starts to open at (°F) | 177°-183° F | | | | |
| Water pump | Type (centrifugal, other) | Centrifugal | | | | |
| | GPM @ 1000 pump rpm | 60 @ 4400 | 54 @ 4400 | 57 @ 4400 | | |
| | Number of pumps | One | | | | |
| | Drive (V-belt, other) | V-Belt | | | | |
| | Bearing type | Permanently lubricated double row ball | | | | |
| By-pass recirculation type (internal, external) | | Internal | | | | |
| Radiator core type (cellular, tube and fin, other) | | Tube on center | | | | |
| Cooling system capacity | With heater (qt.) | 13 | 17 | 15 | | |
| | Without heater (qt.) | 12 | 16 | 14 | | |
| | Opt. equipment-specicity (qt.) | 14 | 18 | 16 | | |
| 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 | None | | | |
| Fan | Number of blades & spacing | | 4, staggered | | | |
| | Diameter | | 17.62 | | | |
| | Ratio-fan to crankshaft rev. | | 949:1 | | | |
| | Fan cutout type | | None | | | |
| | Bearing type | | Double row ball | | | |
| *Drive belts (indicate belt used by letter) | Fan | | A | D | | |
| | Generator or alternator | | A | D | | |
| | Water Pump | | A | D | | |
| | Power Steering | | B | E | | |
| | Air Conditioning | | C | F | | |

| * Drive Belt Dimensions | A | B | C | D | E | F | G | H | I | J | K |
|-------------------------|-------|-------|-------|-------|-------|-------|---|---|---|---|---|
| Angle of V | | 38° - | 42° | | | | | | | | |
| Nominal length (SAE) | 39.00 | 49.50 | 54.75 | 53.25 | 35.00 | 57.50 | | | | | |
| Width | | | .380 | | | | | | | | |

AMA Specifications—Passenger Car

| | | | | | | | |
|--------------------|--|--|-------------|--------------------------|----------------|----------------|------------|
| MAKE OF CAR | CHEVROLET | MODEL YEAR | 1966 | DATE ISSUED | 10-7-65 | REVISED | (*) |
| MODEL | 15300-500, 16300-700 250 cu in L6 Std. | 15400-600, 16400-600, 16800 283 cu in V-8 Standard | RPO L77 | 327 cu in V-8 RPO L30 | | | |

ELECTRICAL—SUPPLY SYSTEM

| | | | | |
|--------------------------------|---|--|--------------------------------|-------------------|
| Battery | Make and Model | | Delco-Remy 1983504 | 1983506 |
| | Voltage Rtg. & Total Plates | | 12 Volt - 54 Plates | 12 Vlt. - 66 Plt. |
| | SAE Designation & Amp Hr. Rtg. | | 44 Amp. Hr @ 20 Hr-rate | 61 Amp@20 Hr. |
| | Location | | Right front engine compartment | |
| Terminal grounded | | Negative | | |
| Generator or Alternator | Make | | Delco-Remy | |
| | Model | | 1100693 | |
| | Type and rating | | Diode rectified 9-37 Amps | |
| | Output at engine idle (neutral) | | 13 amps | |
| Ratio-Gen. to Cr/s rev. | | 2.46:1 | | |
| Regulator | Make | | Delco-Remy | |
| | Model | | 1119515 | |
| | Type | | Vibrator | |
| | Circuit relay | Closing voltage @ generator rpm | | |
| | | Reverse current to open | | |
| | Regulated | Voltage | 13.8-14.8 @ 85°F | |
| | | Current | | |
| | Voltage test conditions | Temperature | Operating | |
| Load | | 3-8 Amperes | | |
| Other | | None | | |

ELECTRICAL—STARTING SYSTEM

| | | | | | |
|-----------------------|----------------------------------|-------------|--|-------------------|--|
| Starting motor | Make | | Delco-Remy | | |
| | Model | | 1107374 | 1107247 1107320 | |
| | Rotation (drive end view) | | Clockwise | | |
| | Engine cranking speed | | | | |
| | Test conditions | | Engine at operating temperature | | |
| | No load test | Amps | 49-76 | 65-100 | |
| Volts | | 10-6 | 10.6 | | |
| RPM (min) | | 6200-9400 | 3600-5100 | | |
| Motor control | Switch (solenoid, manual) | | Solenoid | | |
| | Starting procedure | | <p>3-Spd & 4-Spd-Place gearshift lever in neutral & depress clutch to floor</p> <p>Powerglide- Place control lever in N or P position</p> <p>Initial Start- Press accelerator pedal to floor once to set automatic choke, then release. Turn ignition to START-release as soon as engine starts.</p> | | |

(Continued)

AMA Specifications—Passenger Car

| | | | | | | |
|-------------|-----------|-------------------------|------|-----------------------------|---------|-------------------------|
| MAKE OF CAR | CHEVROLET | MODEL YEAR | 1966 | DATE ISSUED | 10-7-65 | REVISED ^(*) |
| | | | | | | |
| | | 15300-500, 16300-700 | | 15400-600, 16400-600, 16800 | | |
| MODEL | | 250 cu in L6 Std. | | Standard | RPO L77 | 327 cu in V8 RPO L30 |

ELECTRICAL—STARTING SYSTEM (cont.)

| | | | | |
|-------------|-----------------------------|-------------|-------------------------|-----|
| Motor Drive | Engagement type | | Positive shift solenoid | |
| | Pinion meshes (front, rear) | | Rear | |
| | Number of teeth | Pinion | 9 | |
| | | Flywheel | Manual | 153 |
| | Auto. | | 153 | |
| | Flywheel tooth face width | Manual | .4010-.4130 | |
| Auto. | | .4010-.4130 | | |

ELECTRICAL—IGNITION SYSTEM

| | | | | | |
|---------------------------|--|-------------------------------------|--|-------------|-------------|
| Coil | Transistorized - Std., Opt., N.A. | | N. A. | | |
| | Make | | Delco-Remy | | |
| | Model | | 1115208 | 1115204 | |
| | Amps | Engine stopped | 4.0 | | |
| | Engine idling | 1-8 | | | |
| Distributor | Make | | Delco-Remy | | |
| | Model | | 1110351 | 1111150 | 1111152 |
| | Cent'gal adv. in crankshaft degrees @ engine rpm (nominal) | Start (rpm) | 900 | 900 | 900 |
| | | Intermediate points deg. @ rpm. | | | |
| | | Max. deg. @ rpm. | 28° @ 2800 | 28° @ 4200 | 26° @ 4100 |
| | Vacuum adv. in crankshaft degrees @ in. Hg. (nominal) | Start (in. Hg.) | 6 | 8 | 8 |
| | | Intermediate points, deg. @ in. Hg. | | | |
| | | Max. deg. in. Hg. | 21 @ 14.5 | 15 @ 15.5 | 15 @ 15.5 |
| | Breaker gap (in.) | | .019 | | |
| | Cam angle (deg.) | | 31°-34° | 28°-32° | |
| Breaker arm tension (oz.) | | 19-23 oz. | | | |
| Timing | Crankshaft deg. @ rpm. | | 6°±1° @ 500 | 4°±1° @ 500 | 8°±1° @ 550 |
| | Mark location | | Torsional Damper | | |
| Spark Plug | Make | | AC Spark Plug | | |
| | Model | | AC-46N | AC 45 | AC 44 |
| | 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 | | Neoprene | | |

AMA Specifications—Passenger Car

| | | | | | | |
|-------------|--|------------|--------------|-----------------------------|---------------|----------------------------|
| MAKE OF CAR | CHEVROLET | MODEL YEAR | 1966 | DATE ISSUED | 10-7-65 | REVISED (a) |
| MODEL | 250 Cu In L-6 3-Spd & OD RPO M01* | 3-Spd & OD | 4-Spd & Z04# | 15400-600, 16400-600, 16800 | 283 Cu In V-8 | 327 Cu In 3-Spd & 4-Spd |

ELECTRICAL—SUPPRESSION

| | |
|------------------|-----------------------------------|
| Locations & type | Non-Metallic High Ignition Cables |
|------------------|-----------------------------------|

ELECTRICAL—INSTRUMENTS AND EQUIPMENT

| | | |
|-----------------------------|--------------------------|---------------------------------------|
| Speedometer | Make | AC |
| | Trip odometer (yes, no) | NA |
| Charge indicator—type | | Tell-Tale (b) |
| Temperature indicator—type | | Tell-tale (red, hot; green, cold) (b) |
| Oil pressure indicator—type | | Tell-tale (b) |
| Fuel indicator—type | | Electric gage |
| Other | | None |
| Windshield wiper | Make | Delco |
| | Type—Standard | Electric, TWO-Speed |
| | Type—Optional | None |
| | Vacuum booster provision | None |
| | Washer provision | Pushbutton-Standard |
| Horn | Type | Vibrator |
| | Number used | Two |
| | Amp draw (each) | 8:00-110 @ 12.5 V |

DRIVE UNITS—CLUTCH (Manual Transmission)

| | | | |
|-----------------------------|-------------------------------------|---------------------------------------|------------|
| Make & type | Chevrolet, single dry disc | Single dry disc centrifugal | |
| Type pressure plate springs | Diaphragm | Diaphragm bent finger design | |
| Total spring load (lb.) | 1500-1800 | 1700-1950 2100-2300 | |
| No. of clutch driven discs | One | | |
| Clutch facing | Material | Woven type asbestos (a) | |
| | Outside & inside dia. | 9.12 & 6.12 11.0 & 6.5 10.0 & 6.5 | 10.4 & 6.5 |
| | Total eff. area (sq.in.) | 71.8 123.7 90.7 | 103.5 |
| | Thickness | .135 each | |
| | Engagement cushioning method | Flat spring steel between facings | |
| Release bearing | Type & method of lubrication | Single row ball, packed and sealed | |
| Torsional damping | Methods: springs, friction material | Coil springs | |

(a) RPO-M01 has woven type front and molded type rear facings

(b) Model 16647 Bucket seat option gages for Generator, temp, oil pressure, vacuum gage.

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED ^(*)

MODEL _____

DRIVE UNITS—TRANSMISSIONS

| | |
|--------------------------------------|--|
| Manual 3-speed (std. or opt.) | Standard |
| Manual 4-speed (std. or opt.) | Optional with V-8 engines only |
| Manual with overdrive (std. or opt.) | Optional with L6-250 Cu In & V8-283 Cu In only |
| Automatic (std. or opt.) | Optional |

DRIVE UNITS—MANUAL TRANSMISSION

| | | 3-Speed | | 4-Speed | | |
|------------------------------------|----------------------|-----------------------------|--------|---------------|--------|--|
| | | L6-250 & V8-283 | V8-327 | V8-283 | V8-327 | |
| Number of forward speeds | | 3 | | 4 | | |
| Transmission ratios | In first | 2.85 | 2.54 | 3.11 | 2.54 | |
| | In second | 1.68 | 1.50 | 2.20 | 1.80 | |
| | In third | 1.00 | 1.00 | 1.47 | 1.32 | |
| | In fourth | - | - | 1.00 | 1.00 | |
| | In reverse | 2.95 | 2.63 | 3.11 | 2.54 | |
| Synchronous meshing, specify gears | | All forward gears | | | | |
| Shift lever location | | Steering column | | Floor mounted | | |
| Lubricant | Capacity (qt.) | 2 | | 2.5 | | |
| | Type recommended | Military Spec. MIL-L-2105-B | | | | |
| | SAE viscosity number | Summer | SAE 80 | | | |
| | | Winter | SAE 80 | | | |
| | | Extreme cold | SAE 80 | | | |

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

| | | | |
|---|---------------------------------|--|--------|
| Type (planetary or other) | | Planetary | |
| Manual lockout (yes, no) | | Yes | |
| Downshift accelerator control (yes, no) | | Yes | |
| Minimum cut-in speed | | Output shaft RPM; acceleration, 1440; deceleration, 1100 | |
| Gear ratio | | .7 | |
| Lubricant | Capacity (qt.) (Overdrive only) | 1 | |
| | Separate filler (yes, no) | No | |
| | Type recommended | Military Spec. MIL-L-2105-B | |
| | SAE viscosity number | Summer | SAE 80 |
| | | Winter | SAE 80 |
| Extreme cold | | SAE 80 | |

AMA Specifications—Passenger Car

| | | | | | | | |
|--------------------|----------------------|-----------------------------|---------------|--------------------|---------------|----------------|-----|
| MAKE OF CAR | CHEVROLET | MODEL YEAR | 1966 | DATE ISSUED | 10-7-65 | REVISED | (a) |
| MODEL | 15300-500, 16300-700 | 15400-600, 16400-600, 16800 | 250 Cu In L-6 | 283 Cu In V-8 | 327 Cu In V-8 | | |

DRIVE UNITS—AUTOMATIC TRANSMISSION

| | | | | | | | |
|--|--------------------------------------|--|--|----|----------------------------------|----|--|
| Trade name | | Powerglide | | | | | |
| Type describe | | Torque converter with planetary gears | | | | | |
| Method of Selection (Lever, Push Button or other) | | Lever, steering column mounted; Floor mounted when used with optional bucket seats on 16300, 16400 & 16600 | | | | | |
| Selector Pattern | | P-R-N-D-L | | | | | |
| List gear ratios Selector Pattern and indicate which are used in each selector position | | Drive 1.82 & 1.0 L & R - 1.82 | | | Drive 1.76 & 1.0 L & R - 1.76 | | |
| Max. upshift speeds—drive range | | 53 | | 59 | | 58 | |
| Max. kickdown speeds—drive range | | 49 | | 55 | | 59 | |
| Torque converter | Number of elements | 3 | | | | | |
| | Max. ratio at stall | 2.10:1 | | | | | |
| | Type of cooling (air, liquid) | Water | | | | | |
| Lubricant | Capacity—refill (pt.) | 3 | | | | | |
| | Type recommended | A suffix A | | | | | |
| Special transmission features | | | | | | | |

DRIVE UNITS—PROPELLER SHAFT

| | | | | | | | |
|--|------------------------------------|---------------------|--|--|-----------------|--|--|
| Number used | | One | | | | | |
| Type (exposed, torque tube) | | Tubular, exposed | | | | | |
| Outer diameter x length* x well thickness | Manual 3-speed transmission | 3.25 x 62.16 x .065 | | | | | |
| | Manual 4-speed transmission | NA | | | Same as 3-Speed | | |
| | Overdrive transmission | Same as 3-Speed | | | NA | | |
| | Automatic transmission | Same as 3-Speed | | | | | |

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

(Continued)

(a) Oil cooler equipment available optionally

AMA Specifications—Passenger Car

MAKE OF CAR Chevrolet MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED ^(a)

MODEL _____

DRIVE UNITS—PROPELLER SHAFT (cont.)

| | | |
|---|--|-----------------------------|
| Inter-mediate bearing | Type (plain, anti-friction) | None |
| | Lubrication (fitting, prepack) | -- |
| Universal joints | Make | Chevrolet |
| | Number used | Two |
| | Type (ball and trunnion, cross, other) | Cross |
| | Bearing | Type (plain, anti-friction) |
| Lubric. (fitting, prepack) | | Prepack |
| Drive taken through (torque tube or arms, springs) | | Control Arms |
| Torque taken through (torque tube or arms, springs) | | Control Arms |

DRIVE UNITS—REAR AXLE

| | | | |
|-----------------------------------|---|--|--------|
| Description | Standard, Semi-Floating Overhung Pinion Gear | | |
| Limited Slip differential, type | Standard with dual disc clutches | | |
| Drive Pinion Offset | 1.5 | | |
| No. of differential pinions | Standard, 2; limited slip, 4 | | |
| Ring gear O.D. (std. ratio) | 3.08, 3.07, 3.36, 3.70, 8.135; 3.55, 8.875; 3.31, 8.875 | | |
| Pinion adjustment (shim, other) | None | | |
| Pinion bearing adj. (shim, other) | Shim | | |
| Wheel bearing type | Single row cylindrical roller | | |
| Lubricant | Capacity (pt.) | 8.125 Ring Gear, 3.5; 8.875 Ring Gear, 4.0 | |
| | Type recommended | Military Spec, MIL-L-2105-B | |
| | SAE viscosity number | Summer | SAE 80 |
| | | Winter | SAE 80 |
| Extreme cold | | SAE 80 | |

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

| | | | | | | | |
|--------------|-----------|------|------|------|------|------|------|
| Axle ratio | | 3.08 | 3.36 | 3.55 | 3.70 | 3.07 | 3.31 |
| No. of teeth | Pinion | 12 | 11 | 11 | 10 | 14 | 13 |
| | Ring gear | 37 | 37 | 39 | 37 | 43 | 43 |

AMA Specifications—Passenger Car

MAKE OF CAR Chevrolet MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED ^(a)

MODEL _____

DRIVE UNITS—WHEELS

| | | | |
|----------------------------|---------------------|-----------------------------|-----------------------------|
| Type & material | | Short spoke disc, steel | |
| Rim (size and flange type) | Std. | 14 x 5J Exc. Wagons | 14 x 6JK |
| | Opt. | 14 x 6JK | 15 x 5K (with 15 in. tires) |
| Attachment | Type (bolt or stud) | Bolt | |
| | Circle diameter | 4.75 | |
| | Number and size | 5 hex. nuts, 7/16-20 UNF-2B | |

DRIVE UNITS—TIRES

| | | | | |
|-------------------------------|--------------------|---------------------|-----------------|----------------|
| Standard (List option below) | Size & ply | 7.35 x 14-4(a) | 7.75 x 14-4(b) | 8.55 x 14-4(a) |
| | Type - Nylon, etc. | Rayon | | |
| Rev./mile at 50 mph. | | 803 | 779 | 743 |
| Inflation press. (cold) | Front | 24 | | |
| | Rear | 24 except wagons 28 | | |
| Optional tires - size and ply | | 7.35 x 14.4 | 7.75 x 15-4 & 8 | |
| | | 7.75 x 14-4 & 8 | 8.15 x 15 -4 | |
| | | 8.25 x 14-4 & 8 | 8.55 x 14-4 & 8 | |

BRAKES—SERVICE

| | | Standard | (Metallic (optional)) |
|--|----------|---|-----------------------|
| Type (duo-servo, disc, balanced, etc.) | | Duo-servo 4-wheel hydraulic | |
| Self adjusting (std., opt., N.A.) | | Standard reverse | |
| Hydraulic system type (single, dual, etc.) | | Single | |
| Power brake make & type (remote, integral, etc.) | | Bendix, Delco-Moraine vacuum power unit, integral | |
| Effective area (sq. in.) * | | 183.4 | 145.2 |
| Gross lining area (sq. in.) ** | | 198.4 | 145.2 |
| Swept drum area (sq. in.) *** | | 328.3 | |
| Percent brake effectiveness—front | | 58.5 | |
| Drum or Rotor | Diameter | Front | 11.0 |
| | | Rear | 11.0 |
| Type and material | | Composite; Rim, Cast Iron; Web, Steel | |
| Rotor (vented or solid) | | --- | |
| No. pistons per caliper | | --- | |
| Wheel cyl. liner bore | Front | 1.1875 | |
| | Rear | 1.00 | |
| Master cylinder bore | | 1.00 | .875 |
| Available pedal travel | | 6.48 | |
| Line pressure at 100 lb. pedal load | | 717 | 936 |
| Shoe clearance adjustment | | Self-Adjusting | |

* Excludes rivet holes, grooves, chamfers, etc.

** Includes rivet holes, grooves, chamfers, etc.

*** Total swept area for four brakes:

Widest lining contact width for each brake x its drum circumference.

(a) 256 cu. in. 6-cyl. Biscayne 2 & 4 door sedans and Bel Air 2-Door sedans

(b) 283 & 327 V-8 models except wagons

(c) All station wagons.

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED 10'

MODEL _____

| BRAKES—SERVICE (cont.) | | | Standard | Optional |
|------------------------|-------------------|-----------------------------------|---------------------|----------|
| Brake lining | Drum or Disc | | Drum | |
| | Bonded or riveted | | Bonded | |
| | Front Wheel | Material | Molded asbestos | |
| | | Size (length x width x thickness) | 9.25 x 2.75 x .168 | |
| | | Prim. or out-board | 9.25 x 2.00 x .168 | |
| | | Second. or in-board | 1 | |
| | Segments per shoe | | 1 | |
| | Rear Wheel | Material | Molded asbestos | |
| | | Size (length x width x thickness) | 11.63 x 2.75 x .168 | |
| | | Prim. or out-board | 11.63 x 2.00 x .168 | |
| Second. or in-board | | 1 | | |
| Segments per shoe | | Front 12; Rear 10 | | |

BRAKES—PARKING

| | | | |
|---------------------------------|--|-----|--|
| Type of control | Foot pedal apply "T" handle release | | |
| Location of control | Left of steer. column, under instru. panel | | |
| Operates on | Rear service brakes | | |
| If separate from service brakes | Type (internal or external) | --- | |
| | Drum diameter | --- | |
| | Lining size (length x width x thickness) | --- | |

FRAME

| | |
|---|---|
| Type and description (Separate frame, unitized frame, partially - unitized frame) | All welded perimeter frame with front crossmember, rear axle upper control arm crossmember, rear shock absorber crossmember, and a rear crossmember. Welded box-construct ion side rails from front crossmember to aft of rear axle kicku |
|---|---|

STEERING

| | | | | |
|--|----------------------|---|----------------|--|
| Manual (std., opt., NA) | | Standard | | |
| Power (std., opt., NA) | | Optional | | |
| Adjustable steering wheel (tilt, swing, other) | Type and description | Tilt: seven position with five inch vertical travel | | |
| | (std., opt., NA) | Optional | | |
| Wheel diameter | Manual | 16.5 | | |
| | Power | 16.5 | | |
| Turning diameter | Outside front | Wall to wall (l. & r.) | 44.1 | |
| | | Curb to curb (l. & r.) | 40.8 | |
| | Inside rear | Wall to wall (l. & r.) | 24.8 | |
| | | Curb to curb (l. & r.) | 24.5 | |
| Outside wheel angle with inside wheel at 20° | | 20.29° | | |
| Manual Gear | Type | Semi-reversible, recirculating ball nut | | |
| | Make | Saginaw | | |
| | Ratios | Gear | 24:1 | |
| | | Overall | 28.2:1 | |
| No. wheel turns | | 5.42 | (lock to lock) | |

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED ^(M)

MODEL _____

STEERING (cont.)

| | | | |
|--|---|---|--|
| Power | Type (coaxial, linkage, etc.) | | Coaxial |
| | Make | | Saginaw |
| | Gear | Type | Same as manual |
| | | Ratio | 17.5:1 |
| | | Gear Overall | 19.4:1 |
| | Pump driven by | | Crankshaft pulley |
| Number wheel turns | | 3.52 (lock to lock) | |
| Linkage | Type | | Parallelogram |
| | Location (front or rear of wheels, other) | | Rear |
| | Drag link (trans. or long lt.) | | None |
| | Tie rods (one or two) | | Two |
| Steering Axis | Inclination at camber (deg.) | | 7 to 8 |
| | Bearings (type) | Upper | Ball stud with non-metallic bearing surfaces |
| | | Lower | Ball stud with non-metallic bearing surfaces |
| | | Thrust | None required |
| Wheel Alignment (range at curb weight and preferred) | Caster (deg.) | | N 1/4 to P 3/4 (curb) |
| | Camber (deg.) | | N 1/4 to P 3/4 (curb) |
| | Toe-in (outside track inches) | | 1/8 to 1/4 total (curb) |
| Steering spindle & joint type | | Forging with pad for mounting brake cylinder, spherical | |
| Wheel spindle | Diameter | Inner bearing | 1.2493-1.2498 |
| | | Outer bearing | .7492-.7497 |
| | Thread size | | 3/4-20 NEF - 3 (modified) |
| | Bearing type | | Taper roller |

AMA Specifications—Passenger Car

| | | | | | | |
|-------------|-----------|------------|---------|-------------|---------|-----------|
| MAKE OF CAR | CHEVROLET | MODEL YEAR | 1966 | DATE ISSUED | 10/7/65 | REVISED** |
| MODEL | 250 L-6 | 283 V-8 | 327 V-8 | | | |

SUSPENSION—GENERAL

(See Supplemental page for details on Air Suspension)*

| | | |
|------------------------------------|--|----------------------------------|
| Provision for car leveling | Front stabilizer bar | |
| Provision for brake dip control | Angle of front upper control arm | |
| Provision for ecc. equal control | Geometry of rear suspension | |
| Special provisions for car jacking | Front wheel-place jack just outboard of bumper guard Rear wheel - approx. 2" outboard of bumper joint | |
| Shock absorber front & rear | Type | Direct, double-acting, hydraulic |
| | Make | Delco |
| | Piston dia. | 1.00 |
| Other special features | Rear control arms shims for driveline alignment | |

SUSPENSION—FRONT

| | | | |
|----------------------|---|--|-----------------------------|
| Type and description | Independent-SLA type with coil spring and concentric shock absorber and spherically-jointed steering knuckle for each wheel. Lower control arm strut-supported. | | |
| Spring | Type | Coil, Right Hand Helix | |
| | Material | Steel Alloy | |
| | Size (coil design height & I.D.; bar length x dia.) | 11.76, 3.80 113.4 x .641 | 11.76, 3.80 126.5 x .614 |
| | Spring rate (lb. per in.) | 390 | 290 |
| | Rate at wheel (lb. per in.) | 132 | 104 |
| Stabilizer | Type (link, linkless, frameless) | Link (a) | |
| | Material & bar diameter | HR steel; exc. wags. .8125; wagons .9375 | |

SUSPENSION—REAR

| | | | |
|--------------------------------|---|-------------------------------|-----------------------------|
| Type and description | (b) | | |
| Drive and torque taken through | Control arms | | |
| Spring | Type | Coil, right hand helix | |
| | Material | Steel alloy | |
| | Size (length x width, coil design height & I.D.; bar length & dia.) | 12.37 & 4.00; 126.9 x .621 | 12.37, 4.00 126.2 x .597 |
| | Spring rate (lb. per in.) | 265 | 230 |
| | Rate at wheel (lb. per in.) | 124.5 | 108.6 |
| | Mounting insulation type | None | |
| | If leaf | No. of leaves | -- |
| Stabilizer | Shackle (comp. or tens) | -- | |
| | Type (link, linkless, frameless) | None | |
| Material | -- | | |
| Track bar type | Lateral, Frame to Rear Axle | | |

- (a) Not available on Bel Air & Biscayne 6-cyl. 2 and 4-door sedans.
- (b) Link type: except wagons, 2 lower control arms, 1 upper control arm, and tie rod; wagons, 2 upper and 2 lower control arms, and tie rod; support integral rear beam consisting of cast iron differential carrier and pressed in axle shaft housings.

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED ^(a)

| | | | | | |
|-------|--------|--------------|--------------|----------|----------------|
| | Sedans | Sport Sedans | Sport Coupes | Convert. | Station Wagons |
| MODEL | 2-Dr. | 4-Dr. | | | |

BODY—MISCELLANEOUS INFORMATION

| | | | | | | |
|--|-------------|---|--------|--------|--------|--------|
| Drs. hinged (front, rear) | Front doors | Front | | | | |
| | Rear doors | Front | | | | |
| Type of finish (lacquer, enamel, other) | | Acrylic lacquer | | | | |
| Hood counterbalanced (yes, no) | | Yes | | | | |
| Hood release control (internal, external) | | External | | | | |
| Vehicle Ident. No. location | | Left front body hinge pillar | | | | |
| Engine No. location | | On Pad, Front Right Hand Side of Cylinder Block | | | | |
| Theft protection - type | | Shielded Ignition Lock Terminals, Key Removable in "Off" Position | | | | |
| Vent window control method (crank, friction pivot) | Front | Crank | | | | |
| | Rear | None | | | | |
| Seat cushion type | Front | Formed wire and foam pad | | | | |
| | Rear | Formed wire and foam pad | | | | |
| | 3rd seat | -- | | | | |
| Seat back type | Front | Formed wire and cotton | | | | |
| | Rear | Formed wire and cotton | | | | |
| | 3rd seat | -- | | | | |
| Windshield glass type (i.e., single curved laminated plate) | | Single curve, laminated | | | | |
| Side glass type (i.e., curved - tempered plate) | | Curved, safety-solid plate | | | | |
| Backlight glass type (i.e., compound curved - tempered plate, three piece) | | Compound curve, solid tempered plate (a) | | | | |
| Windshield glass exposed surface area | 1448.1 | 1384.3 | 1448.1 | | | |
| Side glass exposed surface area | 1383.7 | 1366.2 | 1417.0 | 1335.4 | 1346.8 | 2572.3 |
| Backlight glass exposed surface area | | 1173.5 | 1213.6 | 1381.0 | 813.0 | 925.9 |
| Total glass exposed surface area | 3987.8 | 4005.3 | 4014.9 | 4100.7 | 3544.1 | 4946.3 |

LAMP HEIGHT AND SPACING

| | | | | | | |
|--|-------------|-----------|------|------|------|------|
| Height above ground to center of bulb | Headlamp | Highest * | 27.7 | 28.1 | 28.3 | 29.1 |
| | | Lowest | 27.7 | 28.1 | 28.3 | 29.1 |
| | Tail | Highest | 23.0 | 22.8 | 23.5 | 24.8 |
| | | Lowest | 23.0 | 22.8 | 23.5 | 24.8 |
| Distance from C/L of car to center of bulb | Headlamp | Inside | | | | |
| | | Outside * | | | | |
| | Tail | Inside | | | | |
| | | Outside | | | | |
| | Directional | Front | | | | |
| | | Rear | | | | |

* If single headlamps are used enter here.

(a) Flat tempered plate on convertible.

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED ^(*)

MODEL _____

CONVENIENCE EQUIPMENT

(Indicate whether standard, optional or NA on each series)

| | | |
|--|--|--|
| Power windows | Side Windows | Optional on models 155-15635-45-69-16000 * |
| | Vent Windows | NA |
| | Backlight or tailgate | Standard 3-Seat Wagons -- Optional 2-Seat Wagons |
| Power seats (specify type as well as availability) | Seat, bucket; 4-way electric control (drivers seat only) models 16647-700-800, Seat front; 6-way electric control, models 155-156-163-164-16600. | |
| Reclining front seat back | NA | |
| Front seat headrest | Optional | |
| Radios (specify type as well as availability) | Optional-AM-Manual, AM Pushbutton, AM-FM Pushbutton | |
| Rear seat speaker | Optional | |
| Power Antenna | Optional | |
| Clock | Optional -- 1500 Standard 1600 | |
| Air Conditioner (specify type and availability) | Optional -- four season and automatic temperature control | |
| Speed warning device | NA | |
| Speed control device | Optional | |
| Ignition lock lamp | Standard | |
| Back up lamp | Standard | |
| Dome lamp | Standard | |
| Glove compartment lamp | Optional 153-15400 -- Standard all other models. | |
| Prkg. brake signal lamp | Optional 15000 -- Standard 16000 | |
| Luggage compartment lamp | Optional 15000 Sedans -- Standard 16000 Sedans and Coupes | |
| Underhood lamp | Optional | |
| Courtesy lamp | Standard 16337-437-16367-467-16647-639*-Opt.all other models | |
| Map lamp | NA | |
| Auto. trans. quad. lamp | Standard | |
| Emergency flasher lamp | Optional | |
| Coming light lamp | NA | |
| Instrument Panel Pad | Standard | |
| Padded Sun Shades | Standard | |
| Left hand outside mirror | Standard | |

* - Also standard on Impala Super Sport models.

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED "0"

WEIGHTS

| Model | CURB WEIGHT - POUNDS | | | % PASS. WEIGHT DISTRIBUTION | | | | SHIPPING WEIGHT | |
|---|----------------------|------|-------|-----------------------------|------|---------------|------|-----------------|---------|
| | Front | Rear | Total | Pass. In Front | | Pass. In Rear | | Front | Rear |
| | | | | Front | Rear | Front | Rear | | |
| | 250 | 283 | | | | | | 250 | 283 |
| Biscayne | | | | | | | | | |
| 15311 | 15411 | 3460 | 3605 | 30 | 70 | | | 3310 | 3445 |
| 15335 | 15435 | 3940 | 4080 | 30 | 70 | | | 3770 | 3895 |
| 15369 | 15469 | 3520 | 3670 | 30 | 70 | | | 3375 | 3510 |
| Bel Air | | | | | | | | | |
| 15511 | 15611 | 3460 | 3600 | 30 | 70 | | | 3315 | 3445 |
| 15535 | 15635 | 3940 | 4080 | 30 | 70 | | | 3770 | 3895 |
| 15545 | 15645 | 3990 | 4125 | 22 | 78 | | | 3815 | 3990 |
| 15569 | 15669 | 3530 | 3685 | 30 | 70 | | | 3390 | 3525 |
| Impala | | | | | | | | | |
| 16335 | 16435 | 3975 | 4110 | 30 | 70 | | | 3805 | 3930 |
| 16337 | 16437 | 3575 | 3735 | 37 | 63 | | | 3430 | 3555 |
| 16339 | 16439 | 3670 | 3805 | 30 | 70 | | | 3525 | 3650 |
| 16345 | 16445 | 4035 | 4170 | 22 | 78 | | | 3860 | 3985 |
| 16367 | 16467 | 3630 | 3780 | 37 | 63 | | | 3485 | 3610 |
| 16369 | 16469 | 3565 | 3725 | 30 | 70 | | | 3435 | 3565 |
| Caprice | | | | | | | | | |
| 16635 | | - | 4150 | 30 | 70 | | | - | 3970 |
| 16639 | | - | 3830 | 30 | 70 | | | - | 3675 |
| 16645 | | - | 4200 | 22 | 78 | | | - | 4020 |
| 16647 | | - | 3740 | 37 | 63 | | | - | 3585 |
| Impala Super Sport | | | | | | | | | |
| 16737 | 16837 | 3605 | 3745 | 37 | 63 | | | 3460 | 3585 |
| 16767 | 16867 | 3655 | 3785 | 37 | 63 | | | 3505 | 3630 |
| Accessories & Equipment Differential Weights | 250 | 283 | 327 | | | | | | Remarks |
| Air Conditioning | +122 | +120 | +110 | | | | | | |
| Brakes, Power | +7 | +7 | +7 | | | | | | |
| Heater, Delete | -22 | -22 | -22 | | | | | | |
| Radio, Push Button | +7 | +7 | +7 | | | | | | |
| Radio, Push Button AM-FM | +10 | +10 | +10 | | | | | | |
| Steering, Power | +31 | +31 | +29 | | | | | | |
| Transmission, Overdrive | +27 | +27 | -- | | | | | | |
| Transmission, Powerglide | +16 | +19 | +23 | | | | | | |
| Transmission, 4-Speed | -- | +6 | +4 | | | | | | |
| 327 V-8 | -- | -- | +45 | | | | | | |

AMA Specifications—Passenger Car

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