AMA–40A
1970

# AMA Specifications—Passenger Car

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| | | | |
|---|---|---|---|
| MANUFACTURER Chevrolet Motor Division<br>General Motors Corporation | CAR NAME CORVETTE | | |
| MAILING ADDRESS Chevrolet Engineering Center<br>3003 Van Dyke, Warren, Mich. 48090 | MODEL YEAR 1970 | ISSUED: | 2-70 |
| | | REVISED (•) | |

NOTES:
1. The General 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 standard models without optional equipment. Significant deviations are noted.
   b. Nominal design dimensions are used throughout these specifications.

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**BODY – TYPES AND STYLE NAMES –** Body type, style names; use manufacturer's code for series & body style.

| | |
|---|---|
| 2-Door Sport Coupe, 2-Passenger | 19437 |
| 2-Door Convertible, 2-Passenger | 19467 |

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## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

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

| MODEL | | SAE Ref. No. | Sport Coupe | Convertible |
|---|---|---|---|---|
| **WIDTH** | | | | |
| Track – Front | | W101 | 58.7 | |
| Track – Rear | | W102 | 59.4 | |
| Maximum overall car width | | W103 | 69.0 | |
| Body width at No. 2 pillar | | W117 | 66.2 | |
| **LENGTH** | | | | |
| Body "O" to front of dash | | L 30 | -1.7 | |
| Wheelbase | | L101 | 98.0 | |
| Overall car length | | L103 | 182.5 | |
| Overhang – front | | L104 | 40.6 | |
| Overhang – rear | | L105 | 43.9 | |
| Body upper structure length | | L123 | | |
| Body "O" line to ℄ of rear wheel | | L127 | 72.0 | |
| Body "O" line to w.s cowl point | | L130 | | |
| **HEIGHT** | | | | |
| Passenger Distribution (front & rear) | | | 2 - 0 | |
| Trunk/Cargo load (lbs.) | | | | |
| Overall height | | H101 | 47.4 | 47.5 |
| Cowl height | | H114 | | |
| Deck height | | H138 | | |
| Rocker panel – front | To ground | H112 | 7.3 | |
| | From front wheel ℄ | | 21.0 | |
| Rocker panel – rear | To ground | H111 | 7.1 | |
| | From rear wheel ℄ | | 16.6 | |
| Windshield slope angle | | H122 | 57.0 | |
| **GROUND CLEARANCE** | | | | |
| Bumper to ground – front | | H102 | 20.3 | |
| Bumper to ground – rear | | H104 | 19.3 | |
| Angle of approach | | H106 | 22.0 | |
| Angle of departure | | H107 | 21.0 | |
| Ramp breakover angle | | H147 | 22.0 | |
| Min. running clearance (Specify) | | H156 | 4.5 (a) | |

(a) Exhaust system to ground

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## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

| MODEL | SAE Ref. No. | Sport Coupe | Convertible |
|---|---|---|---|
| **FRONT COMPARTMENT** | | | |
| Effective head room | H61 | 37.2 | 38.3 |
| Max. eff. leg room – accelerator | L34 | 43.0 | |
| H Point to Heel point | H30 | 6.8 | |
| H Point travel | L17 | 4.5 | |
| Shoulder room | W 3 | 46.9 | |
| Hip room | W 5 | 48.8 | |
| Upper body opening to ground | H50 | 43.6 | |
| **REAR COMPARTMENT** | | | |
| H Point couple distance | L50 | | |
| Effective head room | H63 | | |
| Min. effective leg room | L51 | | |
| H Point to Heel point | H31 | NOT | |
| Min. knee room | L48 | | |
| Rear Compartment room | L 3 | | |
| Shoulder room | W 4 | | |
| Hip room | W 6 | APPLICABLE | |
| Upper body opening to ground | H51 | | |
| **LUGGAGE COMPARTMENT** | | | |
| Usable luggage capacity | V 1 | 6.1 | 5.0 |
| Liftover height | H195 | --- | |
| Position of spare tire storage | | In well under body at rear | |
| Method of holding lid open | | --- | |
| **STATION WAGON – THIRD SEAT** | | | |
| Shoulder Room | W85 | | |
| Hip room | W86 | | |
| Effective leg room | L86 | NOT | |
| Effective head room | H86 | APPLICABLE | |
| Seat facing direction | | | |
| **STATION WAGON – CARGO SPACE** | | | |
| Cargo length at floor – front seat | L202 | | |
| Cargo length at belt – front seat | L204 | | |
| Cargo width – Wheelhouse | W201 | | |
| Opening width at belt | W204 | NOT | |
| Maximum cargo height | H201 | APPLICABLE | |
| Rear opening height | H202 | | |
| Cargo volume index (cu. ft. $\frac{W4 \times L204 \times H201}{1728}$ | V2 | | |

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## POWER TEAMS

(Indicate whether standard or optional)

| MODEL AVAILABILITY | ENGINE | | | | | TRANSMISSION | | AXLE RATIO ** (Std. first) (Indicate A/C ratio) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Displ. cu. in. | Carburetor | Compr. Ratio | BHP @ RPM | Torque @ RPM | | | A | B | C | D |
| 19437<br>19467 | Turbo-Fire 350 V8 (Base) | One; 4-bbl | 10.25:1 | 300 @ 4800 | 380 @ 3200 | 4-Spd. Man'l (2.52:1 low) | Base & A/C | 3.36 | 3.08 | -- | -- |
| | | | | | | 3-Speed* Automatic | Base & A/C | 3.08 | -- | 3.36 | -- |
| | Turbo-Fire 350 V8 (L46)* | One; 4-bbl | 11.00:1 | 350 @ 5600 | 380 @ 3600 | 4-Spd. Man'l. (2.52:1 low) | Base & A/C | 3.36 | -- | 3.55 | -- |
| | | | | | | 4-Spd. Man'l* (2.20:1 low) | Base only | 3.70 | -- | 4.11 | -- |
| | Turbo-Fire 350 V8 (LT1)* | One; 4-bbl | 11.00:1 | 370 @ 6000 | 380 @ 4000 | 4-Spd. Man'l (2.52:1 low) | Base only | 3.55 | 3.36 | 3.70 | -- |
| | | | | | | 4-Spd. Man'l* (2.20:1 low) | Base only | 3.70 | 3.55 | 4.11 | -- |
| | | | | | | H. D. 4-Spd.* Manual (2.20:1 low) | Base only | 3.36 | 3.08 | 3.55 | 3.70<br>4.11<br>4.56 |
| | Turbo-Jet 454 V8 (LS5)* | One; 4-bbl | 10.25:1 | 390 @ 4800 | 500 @ 3400 | 4-Spd. Man'l (2.52:1 low) | Base | 3.08 | -- | 3.36 | -- |
| | | | | | | | A/C | 3.08 | -- | -- | -- |
| | | | | | | 4-Spd. Man'l* (2.20:1 low) | Base only | 3.36 | 3.08 | 3.55 | 3.70 |
| | | | | | | 3-Speed* Automatic | Base only | 3.08 | 2.73 | -- | -- |
| | Turbo-Jet 454 V8 (LS7)* | One; 4-bbl | 11.25:1 | 460 @ 5600 | 490 @ 3000 | 4-Spd. Man'l (2.20:1 low) | Base only | 3.36 | 3.08 | 3.55 | 3.70<br>4.11<br>4.56 |
| | | | | | | 3-Speed Automatic | Base only | 2.73 | 3.08 | 3.36 | -- |

* - Optional

** - Positraction standard with all axle applications

A-Standard
B-Economy
C-Performance
D-Special

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| MODEL | Turbo-Fire 350 | | | Turbo-Jet 454 | |
|---|---|---|---|---|---|
| | 350 HP | 350 HP | 370 HP | 390 HP | 460 HP |
| **ENGINE – GENERAL** | | | | | |
| Type, no. cyls., valve arr. | 90° V8 OHV | | | | |
| Bore and stroke (nominal) | 4.00 x 3.48 | | | 4.251 x 4.00 | |
| Piston displacement, cu. in. | 350 | | | 454 | |
| Bore spacing (℄ to ℄) | 4.40 | | | 4.84 | |
| No. system (front to rear) L. Bank | 1-3-5-7 | | | | |
| No. system (front to rear) R. Bank | 2-4-6-8 | | | | |
| Firing order | 1-8-4-3-6-5-7-2 | | | | |
| Compres. ratio (nominal) | 10.25:1 | 11.00:1 | | 10.25:1 | 11.25:1 |
| Cylinder Head Material | Cast alloy iron | | | | Cast alum. |
| Cylinder Block Material | Cast alloy iron | | | | |
| Cyl. Sleeve-Wet,dry,none | None | | | | |
| Number of mtg. points Front | Two | | | | |
| Number of mtg. points Rear | One | | | | |
| Engine installation angle | 3° | | | | |
| Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$ | 51.2 | | | 57.8 | |
| Publishing max. bhp* @ eng. RPM | 300 @ 4800 | 350 @ 5600 | 370 @ 6000 | 390 @ 4800 | 460 @ 5600 |
| Publishing max. torque * (lb. ft. @ RPM) | 380 @ 3200 | 380 @ 3600 | 380 @ 4000 | 500 @ 3400 | 490 @ 3600 |
| Recommended fuel regular – premium | Premium | | | | |

**ENGINE – PISTONS**

| | | | | | | |
|---|---|---|---|---|---|---|
| Material | | Cst alum alloy | Alum. impact extruded | | Cst alm. alloy | Al. imp. ext. |
| Description and finish | | Flat, Notched head | Domed head, valve cut out | | | |
| Weight (piston only) oz. | | 25.76 | 20.00 | 20.41 | 26.80 | 29.12 |
| Clearance (limits) | Top land | .0235-.0325 | .0305-.0395 | .0305-.0395 | .0306-.0314 | .0306-.0394 |
| Clearance (limits) | Skirt Top | .0007-.0013a | .0020-.0020b | .0036-.0042c | .0020-.0028d | .0058-.0066e |
| Clearance (limits) | Skirt Bottom | | | | | |
| Ring groove depth | No. 1 ring | .2218-.2284 | | | .2348-.2412 | .2373-.2437 |
| Ring groove depth | No. 2 ring | .2218-.2284 | | | .2348-.2412 | .2373-.2437 |
| Ring groove depth | No. 3 ring | .2038-.2103 | | | .2183-.2247 | .2133-.2197 |
| Ring groove depth | No. 4 ring | None | | | | |

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

a Measured 1.560 from top of piston
b Measured 1.660 from top of piston
c Measured 1.660 from top of piston
d Measured 1.74 from top of piston
e Measured 2.15 from top of piston

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| MODEL | Turbo-Fire 350 | | | Turbo-Jet 454 | |
|---|---|---|---|---|---|
| | 300 HP | 350 HP | 370 HP | 390 HP | 460 HP |

## 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 - material, coating, etc. Upper | Cast alloy iron; barrel face (a) | | | | |
| | Description - material, coating, etc. Lower | Cast alloy iron; inside bevel; tapered face (b) | | | | |
| | Width | (c) | (d) | .0770-.0775 | .0620-.0625 | |
| | Gap | (e) | (f) | .010-.020 | .015-.025 | |
| Oil | Description - material, coating, etc. | Multi-piece - (2 rails and 1 spacer expander) Rails - steel, chrome plated OD; Expander-stainless steel | | | | |
| | Width | .1870-.1890 (assembled) | | | | |
| | Gap | .015-.055 | | | | |
| Expanders | | In oil ring assembly | | | | |

## ENGINE – PISTON PINS

| | | | | | | |
|---|---|---|---|---|---|---|
| Material | | Chromium steel | | | | |
| Length | | 2.990-3.010 | | 2.930-2.950 | 2.924-2.928 | |
| Diameter | | .9270-.9273 | | .9895-.9898 | | |
| Type | Locked in rod, in piston, floating, etc. | Locked in rod | | | | |
| | Bushing - In rod or piston | None | | | | |
| | Bushing - Material | | | | | |
| Clearance | In piston | .00015-.00025 | .00045-.00055 | .00030-.00040 | .00045-.00055 | |
| | In rod | None | | | | |
| Direction & amount offset in piston | | (g) | On center | (g) | On center | |

## ENGINE – CONNECTING RODS

| | | | | |
|---|---|---|---|---|
| Material | Drop forged steel | | | |
| Weight (oz.) | 20.80 | 27.84 | 29.44 | |
| Length (center to center) | 5.695-5.705 | 6.130-6.140 | | |
| Bearing - Material & Type | Premium aluminum | | | |
| Bearing - Overall length | .797 | .847 | | |
| Bearing - Clearance (limits) | .0007-.0027 | .0009-.0025 | .0014-.0034 | |
| Bearing - End play | .008-.014 | .015-.023 | | |

(a) Chrome plate on V8 350 (300 HP) molybdenum inlay all other engines

(b) Straight edge & barrel face for V8-454 (460 HP); Wear resistant coating V8-350 (300 HP); chrome plate V8-350 (350 & 370 HP) & V8-454 (390 HP) Molybdenum inlay V8-454 (460 HP)

(c) Upper .0775-.0780; lower .0770-.0775

(d) Upper .0770-.0775; lower .0775-.0780

(e) Upper .010-.020; lower .013-.025

(f) Upper .010-.020; lower .013-.028

(g) Major thrust side .055-.065

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| MODEL | | | Turbo-Fire 350 | | | Turbo-Jet 454 | |
|---|---|---|---|---|---|---|---|
| | | | 300 HP | 350 HP | 370 HP | 390 HP | 460 HP |
| **ENGINE – CRANKSHAFT** | | | Cast | | | | |
| Material | | | Nodular iron | | | Forged steel | |
| Vibration damper type | | | Rubber mounted inertia | | | | |
| End thrust taken by bearing (No.) | | | 5 | | | | |
| Crankshaft end play | | | .002-.006 | | | .006-.010 | |
| Main bearing | Material & type | | Premium aluminum | | | | |
| | Clearance | | (a) | | | (b) | |
| | Journal dia. and bearing overall length | No. 1 | 2.4502x.752 | 2.4503x.752 | | 2.7503x.992 | 2.7492x.992 |
| | | No. 2 | 2.4505x.752 | 2.4503x.752 | | 2.7505x.992 | 2.7498x.992 |
| | | No. 3 | 2.4505x.752 | 2.4503x.752 | | 2.7505x.992 | 2.7498x.992 |
| | | No. 4 | 2.4505x.752 | 2.4503x.752 | | 2.7505x.992 | 2.7498x.992 |
| | | No. 5 | 2.4508x1.177 | 2.4508x1.177 | | 2.7510x1.2525 | 2.7500x1.2525 |
| | | No. 6 | None | | | | |
| | | No. 7 | None | | | | |
| | Dir. & amt. cyl. offset | | None | | | | |
| Crankpin journal diameter | | | 2.099-2.100 | 2.0988-2.0998 | | 2.199-2.200 | |

**ENGINE – CAMSHAFT**

| | | | | | | |
|---|---|---|---|---|---|---|
| Location | | | In block above crankshaft | | | |
| Material | | | Cast alloy iron | | | |
| Bearings | Material | | Steel backed babbitt | | | |
| | Number | | 5 | | | |
| Type of Drive | Gear or chain | | Chain | | | |
| | Crankshaft gear or sprocket material | | Steel sprocket | | | |
| | Camshaft gear or sprocket material | | Nylon teeth with aluminum hub | | | |
| | Timing chain | No. of links | 46 | | 50 | |
| | | Width | .740 | | .740 | |
| | | Pitch | .500 | | .500 | |

**ENGINE – VALVE SYSTEM**

| | | | | | | |
|---|---|---|---|---|---|---|
| Hydraulic lifters (Std., opt., NA) | | | Standard | NA | Standard | NA |
| Valve rotator, type (intake, exhaust) | | | None | | | |
| Rocker ratio | | | 1.50:1 | | 1.70:1 | |
| Operating tappet clearance (indicate hot or cold) | Intake | | Zero | .020 | Zero | .020 |
| | Exhaust | | Zero | .025 | Zero | .020 |

(Continued)

(a) No. 1 - .0008-.00020
No. 2, 3 & 4 - .0011-.0023
No. 5 - .0017-.0033

(b) No. 1 - .0007-.0019
No. 2, 3 & 4 - .0013-.0025
No. 5 - .0019-.0035

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| MODEL | | | Turbo-Fire 350 | | | Turbo-Jet 454 | |
|---|---|---|---|---|---|---|---|
| | | | 300 HP | 350 HP | 370 HP | 390 HP | 460 HP |
| **ENGINE – VALVE SYSTEM (cont.)** | | | | | | | |
| Timing (based on top of ramp points) | Intake | Opens (°BTC) | 28° | 52° | 42° 40' | 56° | 62° |
| | | Closes (°ABC) | 72° | 114° | 94° 20' | 114° | 105° |
| | | Duration - deg. | 280° | 346° | 317° | 350° | 347° |
| | Exhaust | Opens (°BBC) | 78° | 98° | 112° 50' | 110° | 106° |
| | | Closes (°ATC) | 30° | 62° | 53° 23' | 62° | 73° |
| | | Duration - deg. | 288° | 340° | 346° 13' | 352° | 359° |
| | Valve opening overlap | | 58° | 114° | 96° 3' | 118° | 135° |
| Intake | Material | | Alloy steel; aluminized face & head on V8-454 | | | | |
| | Overall length | | 4.870-4.889 | | | 5.215-5.235 | 5.226-5.251 |
| | Actual overall head dia. | | 1.935-1.945 | 2.017-2.023 | | 2.060-2.070 | 2.185-2.195 |
| | Angle of seat & face | | 46° (seat); 45° (face) | | | | |
| | Seat insert material | | None | | | | |
| | Stem diameter | | .3410-.3417 | | | .3715-.3722 | |
| | Stem to guide clearance | | .0010-.0027 | | | | |
| | Lift (@ zero lash) | | .3900 | .4500 | .4586 | .4614 | .5197 |
| | Outer spring press. & length | Valve closed (lb. @ in.) | 76-84 @ 1.70 | | | 69-81 @ 1.88 | 69-81 @ 1.88 |
| | | Valve open (lb. @ in.) | 194-206 @ 1.25 | | | 228-252 @ 1.38 | 181-205 @ 1.32 |
| | Inner spring press. & length | Valve closed (lb. @ in.) | Spring damper | | | 26-34 @ 1.78 | 37-45 @ 1.78 (a) |
| | | Valve open (lb. @ in.) | Spring damper | | | 81-99 @ 1.28 | 92-110 @ 1.22 (a) |
| Exhaust | Material | | High alloy steel; aluminized face (b) | | | | |
| | Overall length | | 4.913-4.935 | 4.891-4.910 | | 5.345-5.365 | 5.380-5.405 |
| | Actual overall head dia. | | 1.495-1.505 | 1.595-1.605 | | 1.715-1.725 | 1.875-1.885 |
| | Angle of seat & face | | 46° (seat); 45° (face) | | | | |
| | Seat insert material | | None | | | | |
| | Stem diameter | | .3410-.3417 | | | .3713-.3720 | |
| | Stem to guide clearance | | .0010-.0027 | | | | |
| | Lift (@ zero lash) | | .4100 | .4600 | .4850 | .4800 | .5498 |
| | Outer spring press. & length | Valve closed (lb. @ in.) | 76-84 @ 1.70 | | | 69-81 @ 1.88 | 69-81 @ 1.88 |
| | | Valve open (lb. @ in.) | 194-206 @ 1.25 | | | 228-252 @ 1.38 | 181-205 @ 1.32 |
| | Inner spring press. & length | Valve closed (lb. @ in.) | Spring damper | | | 26-34 @ 1.78 | 37-45 @ 1.78 (a) |
| | | Valve open (lb. @ in.) | Spring damper | | | 81-99 @ 1.28 | 92-110 @ 1.22 (a) |

**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 | Centrifugally oiled from camshaft bearing |
| | Cylinder walls | Pressure jet cross sprayed |

(Continued)

(a) Spring damper also used
(b) Head also aluminized on V8-454

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MAKE OF CAR CORVETTE MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (*)

| MODEL | Turbo-Fire 350 | | | Turbo-Jet 454 | |
|---|---|---|---|---|---|
| | 300 HP | 350 HP | 370 HP | 390 HP | 460 HP |

## ENGINE – LUBRICATION SYSTEM (cont.)

| | | | | | |
|---|---|---|---|---|---|
| Oil pump type | Gear | | | | |
| Normal oil pressure (lb. / engine rpm) | 40 PSI @ 2000 RPM | | | | |
| Oil press. sending unit (elect. or mech.) | Electric | | | | |
| Type oil intake (floating, stationary) | Stationary | | | | |
| Oil filter system (full flow, part., other) | Full flow | | | | |
| Filter replacement (element, complete) | Complete | | | | |
| Capacity of c/case, less filter-refill (qt.) | 4 | | | 5 | |
| Oil grade recommended (SAE viscosity and temperature range) | 20° and above - 20W, 10W-30, 10W-40, 20W-40<br>0° to 60°F - 10W 5W-30, 10W-30, 10W-40<br>Below 20°F - 5W, 5W-20, 5W-30 | | | | |
| Engine Service Reqmt. (MM, MS, etc.) | MS | | | | |

## ENGINE – EXHAUST SYSTEM

| | | | |
|---|---|---|---|
| Type (single, single with cross-over, dual, other) | | Dual | |
| Muffler No. & type (reverse flow, straight thru, separate resonator) | | Two, reverse flow | |
| Exhaust pipe dia. (O.D., wall thick.) | Branch | 2.00 x .074 | 2.50 x .082 |
| | Main | 2.00 x .082 laminated | 2.50 x .092 laminated |
| Tail pipe dia. (O.D. & wall thickness) | | Chrome plated extension; 2.00 at connection - .048 | |

## ENGINE – CRANKCASE VENTILATION SYSTEM

| | | | |
|---|---|---|---|
| Type (ventilates to atmos., induction system, other) | Standard | Ventilates to induction system | |
| | Optional | None | |
| Control Unit | Make and model | AC Spark Plug | |
| | Location | Left front of rocker cover | |
| | Energy source (manifold vacuum, carburetor air stream, other) | Manifold vacuum | |
| | Control method (variable orifice, fixed orifice, other) | Variable orifice | |
| Complete system | Discharges (to intake manifold, carb. air intake, air cleaner intake, other) | Intake manifold | |
| | Air inlet (breather cap, carburetor air cleaner, other) | Carburetor air cleaner | |
| | Flame arrestor (screen, check valve, other) | Screen | |

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MODEL

| | Turbo-Fire 350 | | | Turbo-Jet 454 | |
|---|---|---|---|---|---|
| | 300 HP | 350 HP | 370 HP | 390 HP | 460 HP |

## ENGINE -- EXHAUST EMISSION CONTROL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Type (Air injection, engine modifications, other) | | | Air Injection - V8-350 (370 HP) & V8-454 (460 HP) Engine modifications - all other engines | | | | |
| Air Injection Pump * | Type | | Semi articulated vane type | | | | |
| | Displacement | | 19.3 | | | | |
| | Drive ratio | | 1.15:1 | | | | |
| | Drive type | | Crankshaft puller | | | | |
| | Relief valve (type) | | Diverter valve | | | | |
| | Filter (describe) | | Air cleaner | | | | |
| Air Injection System * | Air distribution (head, manifold, etc.) | | Manifold | | | | |
| | Point of entry | | Exhaust ports | | | | |
| | Injection tube I.D. | | .2565 | | | | |
| | Check valve type | | Pressure (plate type) | | | | |
| | Backfire protection (type) | | Diverter valve | | | | |
| Carburetor | Make | | | | | | |
| | Model | | | | | | |
| | Barrel size | | | | | | |
| | Idle speed | Drive | REFER TO PAGE 10A | | | | |
| | | Neutral | | | | | |
| | Idle A/F mixture | | | | | | |
| Distributor | Aux. Adv. Systems (type) | | Transmission controlled vacuum spark advance | | | | |
| | Make | | Delco-Remy | | | | |
| | Model | | 1111490 | 1111493 | 1111491 | 1111464 | 1112026 |
| | Cent'fgal adv. in crank degrees @ eng. rpm | Start (rpm) | 900 | 1150 | 1000 | 1085 | 1000 |
| | | Intermed. points deg.@ rpm | 15 @ 1500 | 10 @ 1700 | | 17 @ 2100 | - |
| | | Max.deg.@ rpm | 30 @ 5100 | 26 @ 5000 | 26 @ 5000 | 22 @ 3200 | 21 @ 2300 |
| | Vacuum adv. in crank degrees @ eng. rpm | Start (in Hg) | 8.00 | | 8.00 | 7.00 | |
| | | Intermed. points deg.@ in. Hg | None | | | | |
| | | Max. deg. @ in. | 19 @ 17 | | 15 @ 15.5 | 12 @ 12 | |
| | Vacuum Source | | Carburetor | | | | |
| Timing - Crank degrees @ rpm ** | | | 4BTDC | 8BTDC | 8BTDC | 6BTDC | 8BTDC |
| Cooling System | | | - | | | | |
| Exhaust System | | | - | | | | |

* - Applies to V8-350 (370 HP) & V8-454 (460 HP) only; Engine modifications all other.

** - At idle - see page 10A for idel speed

# AMA Specifications—Passenger Car

Page 10 A

MAKE OF CAR CORVETTE MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (•)

| MODEL | | | Turbo-Fire 350 | | | Turbo-Jet 454 | |
|---|---|---|---|---|---|---|---|
| | | | 300 HP | 350 HP | 370 HP | 390 HP | 460 HP |
| **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 (U.S. gals.) | | 20 (approximately) | | | | |
| | Filler location | | Center at rear deck | | | | |
| Fuel Pump | Type (elec. or mech.) | | Mechanical (a) | | | | |
| | Locations | | Lower right front of engine | | | | |
| | Pressure range | | 7.50-9.00 PSI * | | | | |
| Vacuum booster (std., optional, none) | | | None | | | | |
| Fuel Filter | Type | | Fine mesh plastic strainer in gas tank | | | | |
| | Locations | | and paper filter element in carburetor inlet ** | | | | |
| Carburetor | Choke type | | Automatic | | | | |
| | Intake manifold heat control (exhaust or water) | | Exhaust | | | | |
| | Air cleaner type | Standard | Oil wetted paper element | | | | |
| | | Optional | None | | | | |
| | Idle speed (spec. neutral or drive) | Manual (N) | 700 | 750 | 900 | 700 | |
| | | Automatic (D) | 600 | Not available | | 600 | |
| | | Idle A/F mix. | Not specified | | | | |

## CARBURETOR SUPPLEMENTARY INFORMATION

| Model Usage | Engine Displ. | Transmission | Carburetors | | No. Used and Type | Barrel Size |
|---|---|---|---|---|---|---|
| | | | Make | Model | | |
| | 350 300 hp | Manual | Rochester | 7040203 | One; 4-bbl | 1.38 Prim 2.25 Sec. |
| | | Automatic | | 7040202 | | |
| 19437 | 350 350 hp | Manual | Rochester | 7040207 | One; 4-bbl | 1.38 Prim 2.25 Sec. |
| 19467 | 350 370 hp | Manual | Holley | 3972121 | One; 4-bbl | 1.686 Prim & Sec. |
| | 454 390 hp | Manual | Rochester | 7040205 | One; 4-bbl | 1.28 Prim 2.25 Sec. |
| | | Automatic | | 7040204 | | |
| | 454 460 hp | Manual | Holley | 3967481 | One; 4-bbl | 1.686 Prim & Sec. |
| | | Automatic | | | | |

* Shut off pressure - 1800 RPM at pump outlet

** Additional In-line paper filter element between pump & carburetor for V8-454

(a) Deep cover fuel pump with vapor return line to fuel tank for all engines except V8-350 (370 hp)

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# AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (•)

MODEL Evaporation Emission Control System (California vehicles)

Fuel Tank Capacity - 18 Gals. (approximately)

Components: -

Fill Limiter - Extended fuel filter neck

Canister - Canister of activated carbon stores vapors vented from gas tank until removed and burned in the engine.

Liquid Separator - Connected in vent lines to canister. Separates and returns liquid fuel to the tank.

Constant flow purge line (canister to manifold) - Incorporates an orifice to regulate flow to manifold under all engine operating conditions, including idle.

Variable Flow Purge Line (canister to air cleaner) (snorkel) - Becomes functional above engine idle speeds to more completely purge the canister

Aluminum Heat Dissipator - Positioned between insulation blocks and intake manifold Provides optimum heat transfer to surrounding atmosphere.

| Carburetor Model No.'s | V8-350 300 HP | V8-350 350 HP | V8-350 370 HP | V8-454 390 HP | V8-454 460 HP |
|---|---|---|---|---|---|
| Manual | 7040503 | 7040507 | 3972123 | 7040505 | 3967487 |
| Manual with A/C | 7040503 | 7040507 | - - | 7040505 | - - |
| Automatic | 7040502 | - - | - - | 7040504 | 3967487 |
| Automatic with A/C | 7040502 | - - | - - | 7040504 | - - |

# AMA Specifications--Passenger Car

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## ENGINE – COOLING SYSTEM

| | | | | | | |
|---|---|---|---|---|---|---|
| MODEL | | Turbo-Fire 350 | | | Turbo-Jet 454 | |
| | | 300 HP | 350 HP | 370 HP | 390 HP | 460 HP |
| 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) | 192°-198° | | 177°-183° | 192°-198° | |
| Water pump | Type (centrifugal, other) | Centrifugal | | | | |
| | GPM - 1000 pump rpm | 23 @ 2000 | | | 25 @ 2000 | |
| | Number of pumps | One | | | | |
| | Drive (V-belt, other) | V-belt | | | | |
| | Bearing type | Permanently lubricated double row ball | | | | |
| By-pass recirculation type (inter., ext.) | | Internal | | | External | |
| Radiator core type (cellular, tube and fin, other) | | Tube and center | | | | |
| | | Aluminum | | Copper - brass | | |
| Cooling system capacity | With heater (qt.) | 15 | | 18 | 22 | |
| | Without heater (qt.) | 14 | | 17 | 21 | |
| | Opt. equipment-specify (qt.) | 18 | | 18 | - | |
| Water jackets full length of cyl. (yes, no) | | Yes | | | | |
| Water all around cylinder (yes, no) | | Yes | | | | |
| Radiator hose | Lower – Number and type (molded, straight) | 1.75 | | | 1.88 | |
| | Lower – Inside diameter | One, molded | | | | |
| | Upper – Number and type (molded, straight) | 1.50 | | | | |
| | Upper – Inside diameter | One, molded | | | | |
| | By-pass – Number and type (molded, straight) | None | | | One, molded | |
| | By-pass – Inside diameter | None | | | .725-.765 | |
| Fan | Number of blades & spacing | 5-staggered | | | | |
| | Diameter | 17.50 | | | | |
| | Ratio-fan to crankshaft rev. | 1.160:1 | 1.15:1 | | .949:1 | 1.161:1 |
| | Fan cutout type | Thermo-modulated viscous | | | | |
| | Bearing type | Double row ball | | | | |
| *Drive belts (indicate belt used by letter) | Fan | A B | E F | | J K | |
| | Generator or alternator | A | E | | J K | |
| | Water Pump | A B | E F | | J K | |
| | Power Steering | C | G | - | G | |
| | Air Conditioning | D | - | - | H | - |
| | Air Injection | - | | I | - | L |

| * Drive Belt Dimensions | L | A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Angle of V | ← | | | | | 38°-42° | | | | | | → |
| Nominal length (SAE) | 30.75 | 54.25 | 35.14 | 32.25 | 58.00 | 52.75 | 32.46 | 43.50 | 46.25 | 32.50 | 53.75 | 31.86 |
| Width | ← | | | | | .380 | | | | | | → |

# AMA Specifications—Passenger Car

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MAKE OF CAR CORVETTE MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (•)

| MODEL | | | Turbo-Fire 350 | | | Turbo-Jet 454 | |
|---|---|---|---|---|---|---|---|
| | | | 300 HP | 350 HP | 370 HP | 390 HP | 460 HP |
| **ELECTRICAL – SUPPLY SYSTEM** | | | | | | | |
| Battery | Make and Model | | Delco-Remy 1980085 | | | Delco-Remy 1980127 | |
| | Voltage Rtg. & Total Plates | | 12 volts-78 plates | | | 12 volts-90 plates | |
| | SAE Designation & Amp. Hr. Rtg. | | 62 amp. hr. @ 20 hr. rate | | | 80 amp.hr.@20hr.rate | |
| | Location | | Behind drivers seat in storage compartment | | | | |
| | Terminal grounded | | Negative | | | | |
| Generator or Alternator | Make | | Delco-Remy | | | | |
| | Model | | 1100901 | 1100900 | | | |
| | Type and rating | | Diode rectified | | | | |
| | Output at engine idle (neutral) | | 42 amps | | | | |
| | Ratio-Gen. to Cr/s rev. | | 2.74:1 | 2.15:1 | | 2.53:1 | 2.30:1 |
| Regulator | Make | | Delco-Remy | | | | |
| | Model | | 1119515 | | | | |
| | Type | | Semi-conducter, integrated circuit | | | | |
| | Cutout relay | Closing voltage & generator rpm | None | | | | |
| | | Reverse current to open | None | | | | |
| | 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 | | 1108338 | | | 1108400 | |
| | Rotation (drive end view) | | Clockwise | | | | |
| Motor control | Switch (solenoid, manual) | | Solenoid | | | | |
| | Starting procedure | | Manual-place gearshift lever in neutral and depress clutch<br>Automatic-place control lever in "N" or "P" position<br>Initial Start-press accelerator to floor and release. Turn ignition to START, release as soon as engine starts | | | | |
| Motor Drive | Engagement type | | Positive shift solenoid | | | | |
| | Pinion meshes (front, rear) | | Rear | | | | |
| | Number of teeth | Pinion | 9 | 9 | | 9 | |
| | | Flywheel Manual | 153 | 153 | | 168 | |
| | | Flywheel Auto. | 153 | NA | | 168 | |
| | Flywheel tooth face width | Manual | .4010-.4130 | .4010-.4130 | | .4100-.4220 | |
| | | Auto. | .4010 .4130 | NA | | .4100-.4220 | |

# AMA Specifications--Passenger Car

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| MODEL | | | Turbo-Fire 350 | | | Turbo-Jet 454 | |
|---|---|---|---|---|---|---|---|
| | | | 300 HP | 350 HP | 370 HP | 390 HP | 460 HP |
| **ELECTRICAL – IGNITION SYSTEM** | | | | | | | |
| Type | Conventional – Std., Opt., N.A. | | Standard | NA | Standard | NA | |
| | Transistorized – Std., Opt., N.A. | | NA | Standard | NA | Standard | |
| | Other (specify) | | None | | | | |
| Coil | Make | | Delco-Remy | | | | |
| | Model | | 1115270 | 1115272 | 1115287 | 1115263 | |
| | Amps | Engine stopped | 4.0 | | | | |
| | | Engine idling | 1.8 | | | | |
| Distributor | Make | | | | | | |
| | Model | | | | | | |
| | Cent'fgal adv. in c/shaft degrees @ engine rpm (nominal) | Start (rpm) | | | | | |
| | | Intermediate points deg. @ rpm | | | | | |
| | | Max. deg. @ rpm | REFER TO PAGE NINE | | | | |
| | Vacuum adv. in c/shaft degrees @ in. Hg. (nominal) | Start (in. Hg.) | | | | | |
| | | Intermediate points, deg. @ in. Hg. | | | | | |
| | | Max. deg. in. Hg. | | | | | |
| | Breaker gap (in.) | | .019 | Magnetic | .019 | Magnetic | |
| | Cam angle (deg.) | | 29-31 | Pulse | 28-30 | Pulse | |
| | Breaker arm tension (oz.) | | 19-23 | Amplifier | 28-32 | Amplifier | |
| Timing | Crankshaft deg. @ rpm | | Refer to page nine | | | | |
| | Mark location | | Torsional damper | | | | |
| Spark Plug | Make | | AC Spark Plug | | | | |
| | Model | | AC R44 | AC R43 | AC R43T | AC R43XL | |
| | 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 ignition |

# AMA Specifications—Passenger Car

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MAKE OF CAR CORVETTE MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (•)

| MODEL | Turbo-Fire 350 | | | Turbo-Jet 454 | |
|---|---|---|---|---|---|
| | 300 HP | 350 HP | 370 HP | 390 HP | 460 HP |

## ELECTRICAL – INSTRUMENTS AND EQUIPMENT

| | | |
|---|---|---|
| Speedometer | Type | Circular dial with pointer |
| | Trip odometer (yes,no) | Yes |
| Charge indicator – type | | Ammeter |
| Temperature indicator – type | | Electric gauge |
| Oil pressure indicator – type | | Bourdon tube gauge |
| Fuel indicator – type | | Electric gauge |
| Other | | Mechanical tachometer |
| Windshield wiper | Type – Standard | Electric, two speed |
| | Type – Optional | None |
| Windshield washer | Type – Standard | Push-button |
| | Type – Optional | None |
| Horn | Type | Vibrator |
| | Number used | Two |
| | Amp draw (each) | 4.5-6.5 @ 12.5V (low note); 4.2-6.2 @ 12.5V (high note) |

## DRIVE UNITS – CLUTCH (Manual Transmission)

| | | Standard | Heavy Duty * |
|---|---|---|---|
| Make & type | | Chevrolet, single dry disc semi-centrifugal | |
| Type pressure plate springs | | Diaphragm, bent finger design | |
| Total spring load (lb.) | | 2450-2750 | 2900-3100 |
| No. of clutch driven discs | | One | |
| Clutch facing | Material | Woven type asbestos | |
| | Outside & inside dia. | 11.00 x 6.50 | 10.40 x 6.50 |
| | Total eff. area (sq.in.) | 123.70 | 103.53 |
| | Thickness | .135 each | |
| | Engagement cushioning method | Flat spring steel between cushions | |
| Release bearing | Type & method of lubrication | Single row ball, packed and sealed | |
| Torsional damping | Methods: springs, friction material | Coil springs | |

(a) Available with V8-350 (370 hp) and 454 (460 hp)

# AMA Specifications—Passenger Car

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MODEL

## DRIVE UNITS – TRANSMISSIONS

| | |
|---|---|
| Manual 3-speed (std. or opt.) | Not available |
| Manual 4-speed (std. or opt.) | Standard |
| Manual with overdrive (std. or opt.) | Not available |
| Automatic (std. or opt.) | Optional all engine combinations except V8 350 (350 & 370 HP) |

## DRIVE UNITS – MANUAL TRANS.

| | | | | |
|---|---|---|---|---|
| Number of forward speeds | | | 4-Speed (a) | 4-Speed (b) |
| Transmission ratios | In first | | 2.52:1 | 2.20:1 |
| | In second | | 1.88:1 | 1.64:1 |
| | In third | | 1.46:1 | 1.27:1 |
| | In fourth | | 1.00:1 | 1.00:1 |
| | In reverse | | 2.59:1 | 2.26:1 |
| Synchronous meshing, specify gears | | | All forward gears | |
| Shift lever location | | | Floor mounted with console | |
| Lubricant | Capacity (pt.) | | 3 | |
| | Type recommended | | Meeting Military specs. MIL-L-2105B | |
| | SAE viscosity number | Summer | SAE 80 | |
| | | Winter | SAE 80 | |
| | | Extreme cold | SAE 80 | |

## DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

| | | | |
|---|---|---|---|
| Type (planetary or other) | | | |
| Manual lockout (yes, no) | | | |
| Downshift accelerator control (yes, no) | | | NOT |
| Minimum cut-in speed | | | |
| Gear ratio | | | AVAILABLE |
| Lubricant | Capacity (pt.) (Overdrive only) | | |
| | Separate filler (yes, no) | | |
| | Type recommended | | |
| | SAE viscosity number | Summer | |
| | | Winter | |
| | | Extreme cold | |

(a) Available all engine combinations except V8-454 (460 HP)
(b) Available all engine combinations except V8 350 (300 HP)

# AMA Specifications—Passenger Car

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## DRIVE UNITS – AUTOMATIC TRANSMISSION

Available all engines except V8 350 (350 & 370 HP)

| MODEL | | V8 350 | V8 454 |
|---|---|---|---|
| Trade name | | Turbo Hydra-Matic | |
| Type describe | | Torque converter with compound planetary gear set | |
| Selector location | | Lever (floor mounted) | |
| List gear ratios Selector Pattern and indicate which are used in each selector position | | P-Park<br>R-2.08<br>N-Neutral<br>3-2.48-1.48-1.00<br>2-2.48-1.48<br>1-2.48 | |
| Max. upshift speed–drive range | | 1-2 47; 2-3 82 | 1-2 44; 2-3 74 |
| Max. kickdown speed–drive range | | 2-1 37; 3-2 76 | 2-1 32; 3-2 68 |
| Torque convertor | Number of elements | 3 | |
| | Max. ratio at stall | 2.10 | |
| | Type of cooling (air, liquid) | Water | |
| | Nominal diameter | 12.20 | |
| Lubricant | Capacity–refill (pt.) | 8 | |
| | Type recommended | A suffix A | |
| Special transmission features | | | |

## DRIVE UNITS – PROPELLER SHAFT

| | | |
|---|---|---|
| Number used | | One |
| Type (straight tube, tube-in-tube, internal-external damper, etc.) | | Straight tube |
| Outer diam. x length* x wall thickness | Manual 3 speed trans. | Not available |
| | Manual 4-speed trans. | 2.00 x 29.90 x .120 |
| | Overdrive transmission | Not available |
| | Automatic transmission | 2.00 x 29.50 x .095 |

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

(Continued)

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MODEL

## DRIVE UNITS – PROPELLER SHAFT (cont.)

| | | | |
|---|---|---|---|
| Intermediate bearing | Type (plain, anti-friction) | | None |
| | Lubrication (fitting, prepack) | | --- |
| Slip Yoke | Type | | Yoke |
| | Number of teeth | | 27 |
| | Spline O.D. | | 1.1750 |
| Universal joints | Make and Mfg. No. | | Chevrolet, 3868728 |
| | Number used | | Two |
| | Type (ball and trunnion, cross) | | Cross |
| | Rear attach. (u-bolt, clamp, etc.) | | U-Bolt |
| | Bearing | Type (plain, anti-friction) | Anti-friction |
| | | Lubric. (fitting, prepack) | Prepack |
| Drive taken through (torque tube or arms, springs) | | | Torque control arms |
| Torque taken through (torque tube or arms, springs) | | | Torque control arms |

## DRIVE UNITS – AXLE

| | | | |
|---|---|---|---|
| Type (front, rear) | | | Rear |
| Description | | | Semi-floating, overhung pinion gear |
| Limited Slip differential, type | | | Dual disc clutches |
| Drive Pinion Offset | | | 1.5 |
| No. of differential pinions | | | 2 |
| Pinion adjustment (shim, other) | | | None |
| Pinion bearing adj. (shim, other) | | | Shim |
| Wheel bearing type | | | Taper roller |
| Lubricant | Capacity (pt.) | | 4.0 |
| | Type recommended | | Meeting Military Specs. MIL-L-2105-B |
| | SAE viscosity number | Summer | SAE 80 |
| | | Winter | SAE 80 |
| | | Extreme cold | SAE 80 |

## AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

| Axle ratio | | 2.73 | 3.08 | 3.36 | 3.55 | 3.70 | 4.11 | 4.56 |
|---|---|---|---|---|---|---|---|---|
| No. of teeth | Pinion | 15 | 12 | 11 | 9 | 10 | 9 | 9 |
| | Ring gear | 41 | 37 | 37 | 32 | 37 | 37 | 41 |
| Ring Gear O.D. | | 8.375 | | | | | | |

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MODEL

## DRIVE UNITS – WHEELS

| | | | |
|---|---|---|---|
| Type & material | | | Short spoke spider; steel |
| Rim (size & flange type) | | Std. | 15 x 8JJ |
| | | Opt. | None |
| Attachment | Type (bolt or stud) | | Stud |
| | Circle diameter | | 4.75 |
| | Number and size | | 5 Hex nuts 7/16-20 UNF 2-B |

MODEL

## DRIVE UNITS – TIRES

| | | | |
|---|---|---|---|
| Standard | Size, load range and ply | | F70 x 15B-2 ply (4 ply rating) |
| | Type (bias, radial, etc.) | | Fiberglass Bias Belted |
| | Full rated Inflation Press. | Front | Cold 24; Hot 30 |
| | | Rear | Cold 24; Hot 30 |
| | Rev./Mile at 45 MPH | | 772 |
| Optional | Size, ply rating, & ply | | None |

## BRAKES – PARKING

| | | |
|---|---|---|
| Type of control | | Grip handle control |
| Location of control | | In floor console between seats |
| Operates on | | Rear wheels |
| If separate from service brakes | Type (internal or external) | Internal |
| | Drum diameter | 6.5 |
| | Lining size (length x width x thickness) | 6.78 x 1.25 x .175 |

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MODEL

## BRAKES – SERVICE

| | | | | |
|---|---|---|---|---|
| Type (drum) or (disc & no. of pistons) | | | | Caliper disc, 4 per wheel, hydraulic |
| Self adjusting (std., opt., N.A.) | | | | Standard |
| Special Valving | Type (proportion, delay, metering, other) | | | Metering |
| Power brake make & type (remote, int., etc.) | | Std. | | |
| | | Opt. | | Delco Moraine, vacuum power unit; integral |
| Effective area (sq. in.) * | | | | 78.1 |
| Gross lining area (sq. in.) ** | | | | 86.3 |
| Swept area (sq. in.) *** | | | | 461.2 |
| Front to Rear Effectiveness Relationship | | | | |
| Drum | Diameter (nominal) | Front | | |
| | | Rear | | |
| | Type and material | | | |
| Rotor | Outer working diameter | | | 11.75 |
| | Inner working diameter | | | 8.0 |
| | Working width | | | 1.25 |
| | Material & type (vented/solid) | | | Cast iron, vented |
| Wheel cylinder bore | Front | | | 1.875 |
| | Rear | | | 1.375 |
| Master Cylinder | Bore | | | 1.00 |
| | displacement distribution | Front % | | 77 |
| | | Rear % | | 23 |
| Pedal arc ratio | | | | 5.23 |
| Line pressure at 100 lb. pedal load | | | | 576 |
| Shoe Clearance | Front | | | Self adjusting |
| | Rear | | | Self adjusting |
| Brake lining | Bonded or riveted | | | Woven asbestos |
| | Front Wheel | Material | | Riveted |
| | | Size (length x width x thickness) | Prim. or outboard | 5.96 x 2.21 x .41 |
| | | | Second. or inboard | 5.96 x 2.21 x .41 |
| | | Segments per shoe | | |
| | Rear Wheel | Material | | Woven asbestos |
| | | Size (length x width x thickness) | Prim. or outboard | 5.96 x 2.21 x .41 |
| | | | Second. or inboard | 5.96 x 2.21 x .41 |
| | | Segments per shoe | | |

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

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MODEL

## STEERING

| | | | | |
|---|---|---|---|---|
| Manual (std., opt., NA) | | | | Standard-Energy absorbing steering wheel |
| Power (std., opt., NA) | | | | Optional-NA with V8-350 (370 hp) & 454 (460 hp) |
| Adjustable steering wheel (tilt, swing, other) | | Type and description | | Tilt and Telescopic steering column; 3" adjustment |
| | | (std., opt., NA) | | Optional |
| Wheel diameter | | Manual | | 16.0 |
| | | Power | | 16.0 |
| Turning diameter (feet) | Outside front | Wall to wall (l. & r.) | | 39.0 |
| | | Curb to curb (l. & r.) | | 37.0 |
| | Inside rear | Wall to wall (l. & r.) | | |
| | | Curb to curb (l. & r.) | | |
| Manual | Gear | Type | | Semi-reversible, recirculating ball nut |
| | | Make | | Saginaw |
| | | Ratios | Gear | 16.0:1 |
| | | | Overall | 20.2:1 |
| | No. wheel turns (stop to stop) | | | 3.4 |
| Power | Type (coaxial, linkage, etc.) | | | Linkage-Power pump assisted |
| | Make | | | Saginaw |
| | Gear | Type | | Same as manual |
| | | Ratios | Gear | 16.0:1 |
| | | | Overall | 17.6:1 |
| | Pump driven by | | | Crankshaft pulley |
| | No. wheel turns (stop to stop) | | | 2.9 |
| Linkage | Type | | | Parallelogram |
| | Location (front or rear of wheels, other) | | | Rear |
| | Drag link (trans. or longit.) | | | None |
| | Tie rods (one or two) | | | Two |
| Steering Axis | Inclination at camber (deg.) | | | 6-1/2 to 7-1/2 |
| | Bearings (type) | Upper | | Ball stud with non-metallic bearing surface |
| | | Lower | | Ball stud with non-metallic bearing surface |
| | | Thrust | | None |
| Whl. Align. (range at curb wt. & preferred) | Caster (deg.) | | | Standard P1/2 to P1-1/2; Power Steering P1-3/4 to P2-3/4 |
| | Camber (deg.) | | | P 1/4 to P 1-1/4 (a) |
| | Toe-in (outside track inches) | | | 3/32 to 5/32 (a) |
| Steering spindle & joint type | | | | Steering knuckle with spherical joint |
| 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 |

Rear wheel alignment - Camber N1-3/8 to N3/8
Toe-In - 1/32 to 3/32

# AMA Specifications—Passenger Car

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MAKE OF CAR CORVETTE MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (•)

MODEL

## SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

| | | |
|---|---|---|
| Provision for car leveling | | Front stabilizer bar |
| Provision for brake dip control | | Mounting angle of front upper control arm |
| Provision for acc. squat control | | None |
| Special provisions for car jacking | | Front: 5" forward of front door opening, under frame<br>Rear: 3" forward of wheel opening, under frame |
| Shock absorber front & rear | Type | Direct, double acting hydraulic |
| | Make | Delco-Moraine |
| | Piston dia. | 1.00 |
| Other special features | | |

## SUSPENSION – FRONT

| | | |
|---|---|---|
| Type and description | | Independent: SLA with coil springs and concentric shock absorber, and spherically-jointed steering knuckle for each wheel |
| Spring | Type | Coil |
| | Material | Steel alloy |
| | Size (coil design height & I.D.; bar length x dia.) | 15.85 x 3.80; 138.25 x .600 with V8 350 engines<br>15.77 x 3.80; 138.75 x .618 with V8 454 engine |
| | Spring rate (lb. per in.) | 250 with 350 engines; 284 with 454 engine |
| | Rate at wheel (lb. per in.) | 89 with 350 engines; 97 with 454 engine |
| Stabilizer | Type (link, linkless, frameless) | Link |
| | Material & bar diameter | .750 with 350 engines; .9375 with 454 engines |

## SUSPENSION – REAR

| | | | |
|---|---|---|---|
| Type and description | | | (A) |
| Drive and torque taken through | | | Torque control arms |
| Spring | Type | | Multi-leaf |
| | Material | | Chrome carbon steel |
| | Size (length x width, coil design height & I.D.; bar length & dia.) | | 46.36 x 2.25 |
| | Spring rate (lb. per in.) | | 85 |
| | Rate at wheel (lb. per in.) | | 121 |
| | Mounting insulation type | | Rubber mounted at differential, vertical loading only at shackle |
| | If leaf | No. of leaves | 9 |
| | | Shackle (comp. or tens.) | Tension |
| Stabilizer | Type (link, linkless, frameless) | | Link (B) |
| | Material | | .562 |
| Track bar type | | | None |

(A) - Full independent with fixed differential, transverse multi-leaf spring, lateral struts and universally jointed axle shafts

(B) - With V8 454 Cu. In. engine only

# AMA Specifications—Passenger Car

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MAKE OF CAR CORVETTE MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (*)

| MODEL | Sport Coupe | Convertible |
|---|---|---|

## FRAME

| | |
|---|---|
| Type and description (Separate frame, unitized frame, partially - unitized frame) | All welded, full length, ladder constructed frame with 5 crossmembers |

## BODY – MISCELLANEOUS INFORMATION

| | | | |
|---|---|---|---|
| Drs. hinged (front, rr.) | Front doors | Front | |
| | Rear doors | --- | |
| Type of finish (lacquer, enamel, other) | | Lacquer | |
| Hood counterbalanced (yes, no) | | No | |
| Hood release control (internal, external) | | Internal | |
| Vehicle Indent. No. location | | Left hand windshield pillar | |
| Engine No. location | | Front right side of cylinder block | |
| Theft protection - type | | Lock mounted on steering column; lock steering wheel, transmission shift levers and ignition | |
| Vent window control method (crank, friction pivot) | Front | None | |
| | Rear | --- | |
| Seat cushion type | Front | Bucket-polyurethane padding | |
| | Rear | --- | |
| | 3rd seat | --- | |
| Seat back type | Front | Bucket-polyurethane padding | |
| | Rear | --- | |
| | 3rd seat | --- | |
| Windshield glass type (i.e., single curved - laminated plate) | | Curved-laminated plate-tinted | |
| Side glass type (i.e., curved - tempered plate) | | Curved-safety solid plate-tinted | |
| Backlight glass type (i.e., compound curved - tempered plate, three piece) | | Flat-tempered plate, removable-tinted | Vinyl plastic (soft top) Curved-tempered plate (aux. H. T.) |
| Windshield glass exposed surface area | | 977.4 | |
| Side glass exposed surface area | | 800.8 | |
| Backlight glass exposed surface area | | 392.5 | 418.0* |
| Total glass exposed surface area | | 2170.7 | 2196.2 |

* Removable Auxiliary Top - 620.1

# AMA Specifications—Passenger Car



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**MAKE OF CAR** CORVETTE **MODEL YEAR** 1970 **DATE ISSUED** 2-70 **REVISED** (•)

**MODEL**

## CONVENIENCE EQUIPMENT

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

| | | |
|---|---|---|
| Power windows | Side windows | Optional |
| | Vent windows | NA |
| | Backlight or tailgate | NA |
| Power seats (specify type as well as availability) | | NA |
| Reclining front seat back (R-L or both) | | NA |
| Front seat head restrainer (R-L or both) | | Standard-integral |
| Radios (specify type as well as availability) | | Optional-AM-FM Push-button, AM-FM Stereo |
| Rear seat speaker | | NA |
| Power antenna | | NA |
| Clock | | Standard |
| Air conditioner (specify type and availability) | | Optional - Four-season (manual control) |
| Speed warning device | | NA |
| Speed control device | | NA |
| Ignition lock lamp | | NA |
| Dome lamp | | Standard Coupes, NA - convertible |
| Glove compartment lamp | | Standard |
| Luggage compartment lamp | | Standard |
| Underhood lamp | | NA |
| Courtesy lamp | | Standard |
| Map lamp | | Standard |
| Auto. trans. quad. lamp | | NA |
| Cornering light lamp | | NA |

## LAMP HEIGHT AND SPACING

| | | | |
|---|---|---|---|
| Height above ground to center of bulb or marker | Headlamp | Highest * | 25.4 |
| | | Lowest | -- |
| | Tail | Highest | 27.1 |
| | | Lowest | -- |
| | Srdemarker | Front | 18.0 |
| | | Rear | 19.0 |
| Distance from ℄ L of car to center of bulb | Headlamp | Inside | 11.3 |
| | | Outside * | 18.0 |
| | Tail | Inside | 13.95 |
| | | Outside | 21.22 |
| | Directional | Front | 22.52 |
| | | Rear | 21.22 |

* If single headlamps are used enter here.

# AMA Specifications—Passenger Car

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MAKE OF CAR CORVETTE MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (•)

## WEIGHTS

| Model | CURB WEIGHT * POUNDS | | | % PASS. WEIGHT DISTRIBUTION | | | | LIQUID WEIGHT | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Pass. In Front | | Pass. In Rear | | | |
| | Front | Rear | Total | Front | Rear | Front | Rear | Fuel | Coolant |
| 2-Door Sport Coupe | 1598 | 1687 | 3285 | 28.0 | 72.0 | -- | -- | 120.0 | 31.5 |
| Convertible | 1574 | 1725 | 3299 | 28.0 | 72.0 | -- | -- | 120.0 | 31.5 |

| Accessories & Equipment Differential Weights | | | | Remarks |
|---|---|---|---|---|
| | | | | With 4-Speed transmission |
| 350 cu. in. V8 (300 HP) | +53 | +32 | +85 | With Turbo Hydra-Matic transmission |
| 350 cu. in. V8 (350 HP) | +16 | - 0 | +16 | With 4-Speed transmission |
| 350 cu. in. V8 (370 HP) | +13 | + 3 | +16 | With 4-Speed transmission |
| 454 cu. in. V8 (390 HP) | +153 | +25 | +178 | With 4-Speed transmission |
| 454 cu. in. V8 (390 HP) | +186 | +43 | +229 | With Turbo Hydra-Matic transmission |
| Air Conditioning | +70 | +18 | +88 | With 300HP 3-Spd trans. & 350 HP engine |
| | +63 | +15 | +78 | With 300 HP engine & Turbo Hydra-Matic trans. |
| | +79 | +20 | +99 | With 390 HP engine & 4-spd transmission |
| Power Brakes | + 8 | + 2 | +10 | |
| Power Steering | +25 | + 1 | +26 | With 300 HP engine |
| | +23 | + 1 | +24 | With 350 & 370 HP engine |
| | +28 | + 1 | +29 | With 390 HP engine |
| Radio, AM/FM P. B. | + 9 | + 7 | +16 | With 350 cu. in. engine |
| | + 8 | + 5 | +13 | With 454 cu. in. engine |
| Auxiliary Top | + 8 | +45 | +53 | |
| Power Windows | + 5 | + 5 | +10 | |
| Deluxe Wheel Covers | + 9 | + 9 | +18 | |
| 454 cu. in. V8 (460 HP) | +59 | +22 | +81 | With 4-Speed transmission |
| 454 cu. in. V8 (460 HP) | +101 | +33 | +134 | With Turbo Hydra-Matic transmission |

*Reference – SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

# AMA Specifications—Passenger Car

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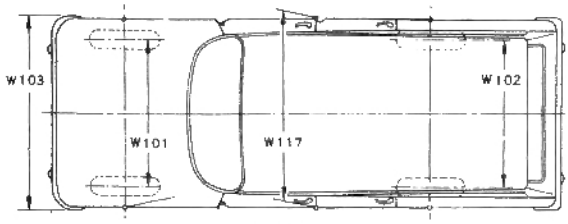
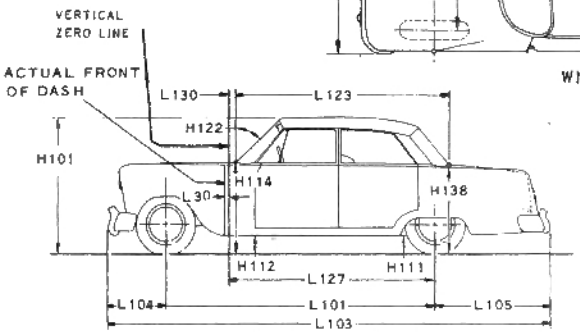
## CAR AND BODY DIMENSIONS

## KEY SHEET

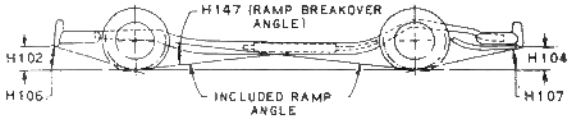
### EXTERIOR CAR AND BODY DIMENSIONS




WIDTH

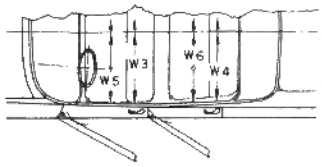



LENGTH & HEIGHT




GROUND CLEARANCE

### INTERIOR CAR AND BODY DIMENSIONS

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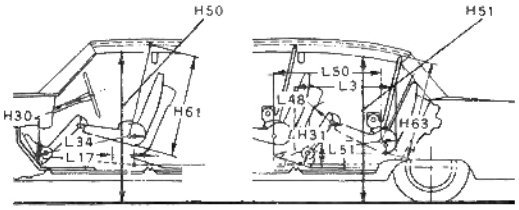
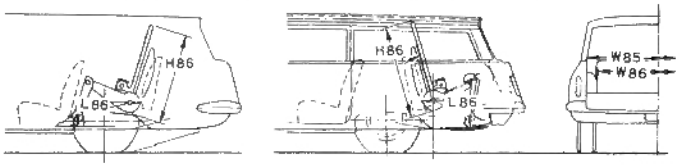
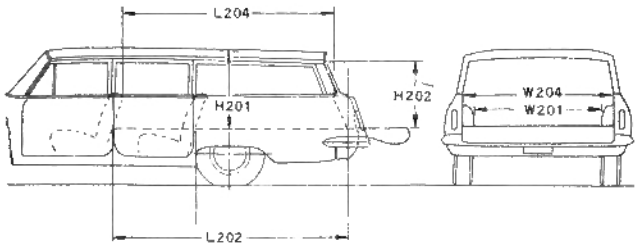



FRONT COMPT. REAR COMPT.




THIRD SEAT




CARGO SPACE

# AMA Specifications—Passenger Car

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## CAR AND BODY DIMENSIONS

## KEY SHEET

## DIMENSION DEFINITIONS

### EXTERIOR WIDTH DIMENSIONS

W101 WHEEL TREAD – FRONT. Measured at centerline of tires, with nominal camber, at ground.

W102 WHEEL TREAD – REAR. Measured at centerline of tires at ground.

W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.

W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

### EXTERIOR LENGTH DIMENSIONS

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

L101 WHEELBASE.

L103 OVERALL LENGTH. Include bumper guards if standard equipment.

L104 OVERHANG – FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.

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

L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.

L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.

L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

### EXTERIOR HEIGHT DIMENSIONS

H101 OVERALL HEIGHT – DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.

H114 COWL POINT TO GROUND. Measured at vehicle centerline.

H138 DECK POINT TO GROUND. Measured at vehicle centerline.

H112 ROCKER PANEL TO GROUND – FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.

H111 ROCKER PANEL TO GROUND – REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.

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

### GROUND CLEARANCE DIMENSIONS

H102 BUMPER TO GROUND – FRONT. Minimum dimension, includes bumper guards.

H104 BUMPER TO GROUND – REAR. Minimum dimension, includes bumper guards.

H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.

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

H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.

H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

### FRONT COMPARTMENT DIMENSIONS

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

L 34 MAXIMUM EFFECTIVE LEG ROOM – ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.

H 30 H POINT TO HEEL POINT – FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.

L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

### FRONT COMPARTMENT DIMENSIONS (Cont.)

W 3 SHOULDER ROOM – FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.

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

H 50 UPPER BODY OPENING TO GROUND – FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

### REAR COMPARTMENT DIMENSIONS

L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.

H 63 EFFECTIVE HEAD ROOM – REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.

L 51 MINIMUM EFFECTIVE LEG ROOM – REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.

H 31 H POINT TO HEEL POINT – REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.

L 48 MINIMUM KNEE ROOM – REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.

L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.

W 4 SHOULDER ROOM – REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.

W 6 HIP ROOM – REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.

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

### LUGGAGE COMPARTMENT DIMENSIONS

V 1 LUGGAGE CAPACITY – USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.

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

### STATION WAGON – THIRD SEAT DIMENSIONS

W 85 SHOULDER ROOM – THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.

W 86 HIP ROOM – THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.

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

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

### STATION WAGON – CARGO SPACE DIMENSIONS

L202 CARGO LENGTH AT FLOOR – FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.

L204 CARGO LENGTH AT BELT – FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.

W201 CARGO WIDTH – WHEELHOUSE. The minimum horizontal dimension, measured between wheelhousings at floor level.

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

H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.

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

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

$$\frac{W4 \times L204 \times H201}{1728}$$

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## INDEX