

# AMA Specifications — Passenger Car

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|                                                                                               |                                                                       |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>MANUFACTURER</b> Chevrolet Motor Division<br>General Motors Corporation                    | <b>CAR NAME</b> CORVAIR<br>164 Cu. In. 6 -Cyl.                        |
| <b>MAILING ADDRESS</b> Chevrolet Engineering Center<br>Box 7346, North End Station, Detroit 2 | <b>MODEL YEAR</b> 1964<br><b>ISSUED</b> 9-23-63<br><b>REVISED (a)</b> |

## NOTES:

1. The 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, number of passenger & style names are manufacturer's code for series & body style.

### 500 Series

527 2-Door Club Coupe, 5-Passenger

### 600 Series - Monza Spyder

627 2-Door Club Coupe, 4-Passenger

667 2-Door Convertible, 4-Passenger

### 700 Series

769 4-Door Sedan, 6-Passenger

### 900 Series - Monza

927 2-Door Club Coupe, 4-Passenger

967 2-Door Convertible, 4-Passenger

969 4-Door Sedan, 5-Passenger

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MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED(0)

## GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

| MODEL                                                      | Additional Information Page Nos. | 5-7-900                                                                                       | 5-7-900        | 627-667             |
|------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------|----------------|---------------------|
|                                                            |                                  | Std. Engine                                                                                   | Hi-Perf. Eng.  | Turb/Chgd. Engine   |
| Wheelbase (L101)                                           | 23                               | 108.0                                                                                         |                |                     |
| Tread                                                      | Front (W101)                     | 54.4                                                                                          |                |                     |
|                                                            | Rear (W102)                      | 55.1                                                                                          |                |                     |
| Maximum Overall Dimensions                                 | Length (L103)                    | 189.0                                                                                         |                |                     |
|                                                            | Width (W103)                     | 67.0                                                                                          |                |                     |
|                                                            | Height (H101)                    | Sedans<br>51.5                                                                                | Coupes<br>51.4 | Convertible<br>51.4 |
| Transmission<br>(Specify trade name - opt., not available) | Manual                           | Synchronesh - 3-Speed Standard, 4-Speed Optional                                              |                |                     |
|                                                            | Overdrive                        | Not Offered                                                                                   |                |                     |
|                                                            | Automatic                        | Powerglide - Optional Except Turbocharged Engine                                              |                |                     |
| Axle ratio                                                 | Manual                           | All except 600 Models: 3-Speed and 4-Speed, 3.27:1;<br>Model 600: 3-Speed and 4-Speed, 3.55:1 |                |                     |
|                                                            | Overdrive                        | --                                                                                            |                |                     |
|                                                            | Automatic                        | With Reg. Production Engine, 3.27:1;<br>With Hi-Performance Engine, 3.55:1                    |                |                     |
| Tire size                                                  | 18                               | 6.50 x 13                                                                                     |                |                     |
| Engine                                                     | Type, no. cyl., valve arr.       | 2 Horizontal opposed, 6 Cyl, OHV Air cooled.                                                  |                |                     |
|                                                            | Fuel system (Carb., other)       | 8 Carburetor                                                                                  |                |                     |
|                                                            | Bore and stroke                  | 2 3.4375 x 2.94                                                                               |                |                     |
|                                                            | Piston displ., cu.in.            | 2 164                                                                                         |                |                     |
|                                                            | Std. compression ratio           | 2 8.25:1                                                                                      | 9.25:1         | 8.25:1              |
|                                                            | Max. bhp at engine rpm           | 2 95 @ 3600                                                                                   | 110 @ 4400     | 150 @ 4000          |
|                                                            | Max. torque at rpm               | 2 154 @ 2400                                                                                  | 160 @ 2800     | 232 @ 3200          |

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| MAKE OF CAR | CORVAIR     | MODEL YEAR | 1964            | DATE ISSUED | 9-23-63            | REVISED (a) |
|             | 5-7-900     |            | 5-7-900         |             | 627-667            |             |
| MODEL       | Std. Engine |            | Hi-Perf. Engine |             | Tubro/Chgd. Engine |             |

## ENGINE—GENERAL

|                                           |           |                                    |                |                |
|-------------------------------------------|-----------|------------------------------------|----------------|----------------|
| Type, no. cyls., valve arr.               |           | Horizontal opposed, 6-cylinder OHV |                |                |
| Bore and stroke (nominal)                 |           | 3.4375 x 2.94                      |                |                |
| Piston displacement, c.u. in.             |           | 164                                |                |                |
| Bore spacing (C/L to C/L)                 |           | 4.85                               |                |                |
| No. system<br>(front to rear)             | L. Bank   | 6-4-2                              |                |                |
|                                           | R. Bank   | 5-3-1                              |                |                |
| Firing order                              |           | 1-4-5-2-3-6                        |                |                |
| Compres. ratio (nominal)                  |           | 8.25:1                             | 9.25:1         | 8.25:1         |
| Cylinder Head Material                    |           | Cast Aluminum                      |                |                |
| Cylinder Block Material                   |           | Cast Aluminum                      |                |                |
| Cylinder Sleeve-Wet, dry, none            |           | None                               |                |                |
| Number of<br>mounting points              | Front     | Two                                |                |                |
|                                           | Rear      | One                                |                |                |
| Engine installation angle                 |           | 2° 33'                             |                |                |
| Taxable<br>horsepower                     |           | 28.4                               |                |                |
| Published max. bhp*<br>@ eng. RPM         |           | 95 @ 3600                          | 110 @ 4400     | 150 @ 4000     |
| Published max. torque*<br>(lb. ft. @ RPM) |           | 154 @ 2400                         | 160 @ 2800     | 232 @ 3200     |
| Recommended fuel<br>regular - premium     |           | Regular                            | Premium        |                |
| Idle speed (spec.<br>neutral or drive)    | Manual    | 500 in Neutral                     | 600 in Neutral | 850 in Neutral |
|                                           | Automatic |                                    | 500 in Drive   |                |

## ENGINE—PISTONS

|                          |                           |               |                   |
|--------------------------|---------------------------|---------------|-------------------|
| Material                 | Cast Aluminum Alloy       |               |                   |
| Description and finish   | Flat head - Slipper skirt |               |                   |
| Weight (piston only) oz. | 15.60                     |               |                   |
| Clearance<br>(limits)    | Top land                  | .022 - .031   |                   |
|                          | Skirt                     | Top           | .0011 - .0017 (a) |
|                          |                           | Bottom        |                   |
| Ring groove<br>depth     | No. 1 ring                | .1930 - .1990 |                   |
|                          | No. 2 ring                | .1930 - .1990 |                   |
|                          | No. 3 ring                | .1860 - .1925 |                   |
|                          | No. 4 ring                |               |                   |

\* Max. bhp (brake horsepower) and max. torque corrected as defined by SAE Engine Test Code.

(a) - Measured 2.01 from top of piston.

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**MODEL YEAR** 1964 **DATE ISSUED** 9-23-63 **REVISED** (•) 12-3-63

(Indicate whether standard or optional)

- \* - Optional
- A - General Purpose (Standard)
- B - Special Purpose or Mountain (Optional)
- C - High Performance (Optional)
- # - Positraction axle ratio available in combinations as shown.

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|             |         |             |                 |                  |         |             |  |
|-------------|---------|-------------|-----------------|------------------|---------|-------------|--|
| MAKE OF CAR | CORVAIR | MODEL YEAR  | 1964            | DATE ISSUED      | 9-23-63 | REVISED (e) |  |
|             |         | 5-7-900     | 5-7-900         | 627-667          |         |             |  |
| MODEL       |         | Std. Engine | Hi-Perf. Engine | Turbo/Chgd. Eng. |         |             |  |

## ENGINE—RINGS

|                                |                                                   |                                                                                                                     |
|--------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Function<br>(top to<br>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 -<br>material, type,<br>coating, etc. | Cast Alloy Iron - inside bevel or counter bore<br>Upper Ring - Chrome plated<br>Lower Ring - Wear resistant coating |
|                                | Width                                             | .0620 - .0625                                                                                                       |
|                                | Gap                                               | .010 - .020                                                                                                         |
| Oil                            | Description -<br>material, type,<br>coating, etc. | Multi-piece (2 rails and one spacer expander)<br>Rails - Chrome plated O. D.<br>Spacer expander - Steel             |
|                                | Width                                             | .1215 - .1255 (assembled)                                                                                           |
|                                | Gap                                               | .015 - .055                                                                                                         |
| Expanders                      |                                                   | In oil ring assembly                                                                                                |

## ENGINE—PISTON PINS

|                                     |                                          |                               |
|-------------------------------------|------------------------------------------|-------------------------------|
| Material                            |                                          | Alloy Steel                   |
| Length                              |                                          | 2.630 - 2.650                 |
| Diameter                            |                                          | .7999 - .8002                 |
| Type                                | Locked in rod, in piston; floating, etc. |                               |
|                                     | Locked in rod                            |                               |
|                                     | Bushing                                  | None                          |
|                                     | Material                                 | None                          |
| Clearance                           | In piston                                | .00015 - .00025               |
|                                     | In rod                                   | ---                           |
| Direction & amount offset in piston |                                          | Major thrust side .055 - .065 |

## ENGINE—CONNECTING RODS

|                           |                    |                   |
|---------------------------|--------------------|-------------------|
| Material                  |                    | Drop Forged Steel |
| Weight (oz.)              |                    |                   |
| Length (center to center) |                    | 4.719 - 4.721     |
| Bearing                   | Material & Type    | Premium Aluminum  |
|                           | Overall length     | .649              |
|                           | Clearance (limits) | .0007 - .0028     |
|                           | End play           | .005 - .010       |

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 5-7-900 5-7-900 627 - 667  
 MODEL Std. Engine Hf-Perf. Engine Turbo/Chgd. Engine

## ENGINE—CRANKSHAFT

|                                   |                                         |                                            |                          |
|-----------------------------------|-----------------------------------------|--------------------------------------------|--------------------------|
| Material                          |                                         | Forged Alloy Steel                         |                          |
| Vibration damper type             |                                         | None                                       | Rubber mounted inertia * |
|                                   |                                         | * Also used on all Powerglide Combinations |                          |
| End thrust taken by bearing (No.) |                                         | #1 (at rear of engine)                     |                          |
| Crankshaft end play               |                                         | .002 - .006                                |                          |
| Main bearing                      | Material & type                         |                                            | Premium Aluminum         |
|                                   | Clearance                               |                                            | .0012 - .0037            |
|                                   | Journal dia. and bearing overall length | No. 1                                      | 2.1008 x .785            |
|                                   |                                         | No. 2                                      | 2.1008 x .752            |
|                                   |                                         | No. 3                                      | 2.1018 x .752            |
|                                   |                                         | No. 4                                      | 2.1018 x .752            |
|                                   |                                         | No. 5                                      | None                     |
|                                   |                                         | No. 6                                      | None                     |
|                                   |                                         | No. 7                                      | None                     |
| Dir. & amt. cyl. offset           |                                         | None                                       |                          |
| Crankpin journal diameter         |                                         | 1.799 - 1.800                              |                          |

## ENGINE—CAMSHAFT

|               |                                      |                                |               |
|---------------|--------------------------------------|--------------------------------|---------------|
| Location      |                                      | Directly below crankshaft      |               |
| Material      |                                      | Cast Alloy Iron                |               |
| Bearings      | Material                             | No inserts, aluminum crankcase |               |
|               | Number                               | machined for bearing surface   |               |
| Type of Drive | Gear or chain                        |                                | Gear          |
|               | Crankshaft gear or sprocket material |                                | Steel         |
|               | Camshaft gear or sprocket material   |                                | Cast Aluminum |
|               | Timing chain                         | No. of links                   | None          |
|               |                                      | Width                          |               |
|               |                                      | Pitch                          |               |

## ENGINE—VALVE SYSTEM

|                                                   |         |                   |        |
|---------------------------------------------------|---------|-------------------|--------|
| Hydraulic lifters (Std, opt, NA)                  |         | Standard          |        |
| Valve rotator, type (intake, exhaust)             |         | None              |        |
| Rocker ratio                                      |         | ● 1.57:1          | 1.50:1 |
| Operating tappet clearance (Indicate hot or cold) | Intake  | Zero              |        |
|                                                   | Exhaust | Zero              |        |
| Timing marks on flywheel, damper, other           |         | Crankshaft Pulley |        |

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| MODEL       | 5-7-900     |            | 5-7-900         |             | 627-667             |             |       |
|             | Std. Engine |            | Hi-Perf. Engine |             | Turbo/Chgd. Engine. |             |       |

## ENGINE—VALVE SYSTEM (cont.)

|                                |                                |                           |                                  |                     |     |
|--------------------------------|--------------------------------|---------------------------|----------------------------------|---------------------|-----|
| Timing *                       | Intake                         | Opens (°BTC)              | 44°                              | 55°                 |     |
|                                |                                | Closes (°ABC)             | 88°                              | 105°                |     |
|                                |                                | Duration - deg.           | 312°                             | 340°                |     |
|                                | Exhaust                        | Opens (°BBC)              | 78°                              | 97°                 |     |
|                                |                                | Closes (°ATC)             | 54°                              | 63°                 |     |
|                                |                                | Duration - deg.           | 312°                             | 340°                |     |
|                                | Valve opening overlap          |                           | 98°                              | 118°                |     |
| Intake                         | Material                       |                           | High Alloy Steel-Aluminized face |                     |     |
|                                | Overall length                 |                           | 4.4891 - 4.5091                  |                     |     |
|                                | Actual overall head dia.       |                           | 1.335 - 1.345                    |                     |     |
|                                | Angle of seat & face           |                           | 45° (seat) 44° (face)            |                     |     |
|                                | Seat insert material           |                           | Cast nickel steel alloy          |                     |     |
|                                | Stem diameter                  |                           | .3414 - .3422                    |                     |     |
|                                | Stem to guide clearance        |                           | .0010 - .0028                    |                     |     |
|                                | Lift (@ zero lash) ●           |                           | .4030 (theoretical)              | .3907 (theoretical) |     |
|                                | Outer spring press. and length | Valve closed (lb. @ in.)  | 78-86 @ 1.660                    |                     |     |
|                                |                                | Valve open (lb. @ in.)    | 170-180 @ 1.260                  |                     |     |
|                                | Inner spring press. and length | Valve closed (lb. @ in.)  | Spring Damper                    |                     |     |
|                                |                                | Valve open (lb. @ in.)    | Spring Damper                    |                     |     |
|                                | Exhaust                        | Material                  |                                  | (b)                 | (a) |
|                                |                                | Overall length            |                                  | 4.4941 - 4.5141     |     |
|                                |                                | Actual overall head dia.  |                                  | 1.235 - 1.245       |     |
| Angle of seat & face           |                                | 45° (seat) 44° (face)     |                                  |                     |     |
| Seat insert material           |                                | Cast chromium steel alloy |                                  |                     |     |
| Stem diameter                  |                                | .3407 - .3418             |                                  |                     |     |
| Stem to guide clearance        |                                | .0014 - .0035             |                                  |                     |     |
| Lift (@ zero lash) ●           |                                | .4030 (theoretical)       | .3907 (theoretical)              |                     |     |
| Outer spring press. and length |                                | Valve closed (lb. @ in.)  | 78-86 @ 1.660                    |                     |     |
|                                |                                | Valve open (lb. @ in.)    | 170-180 @ 1.260                  |                     |     |
| Inner spring press. and length |                                | Valve closed (lb. @ in.)  | Spring Damper                    |                     |     |
|                                |                                | Valve open (lb. @ in.)    | 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 | Main & Cam frt. brg. throw off |
|                                                | Cylinder walls       | Conn. rod brg. throw off       |

\* - Including Ramps

(Continued)

(a) - Head & Neck - Super alloy (nimonic 80A)

Stem - Silicon & chromium alloy steel

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|             |         | 5-7-900         | 5-7-900         | 627-667            |         |             |
| MODEL       |         | Standard Engine | Hi-Perf. Engine | Turbo/Chgd. Engine |         |             |

## ENGINE—LUBRICATION SYSTEM (cont.)

|                                                             |                                                                                                                                                       |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oil pump type                                               | Gear                                                                                                                                                  |
| Normal oil pressure (lb. @ engine rpm)                      | 30 @ 2000                                                                                                                                             |
| 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                                                                                                                                              |
| Capacity of crankcase, less filter-refill (qt.)             | 4.0                                                                                                                                                   |
| Oil grade recommended (SAE viscosity and temperature range) | 32° F and Above ..... SAE 30<br>10° F to 32° F ..... SAE 10W<br>Below 10° F ..... SAE 5W-20<br>Note: Always use SAE 30 if daytime Temp. is above 60°F |
| Engine Service Requirement (MM, MS, etc.)                   |                                                                                                                                                       |

## ENGINE—EXHAUST SYSTEM

|                                                                      |                                            |
|----------------------------------------------------------------------|--------------------------------------------|
| Type (single, single with cross-over, dual, other)                   | Single with crossover                      |
| Muffler No. & type (reverse flow, straight thru, separate resonator) | One, reverse flow, diffusion and resonance |
| Exhaust pipe dia. (O.D. Branch wall thickness)                       | 1.375 x .067-.081                          |
| Main                                                                 | 1.875 x .067-.081                          |
| Tail pipe diameter (O.D. & wall thickness)                           | 1.75 x .0480                               |
|                                                                      | 2.50 x .042-.052                           |

## ENGINE—CRANKCASE VENTILATION SYSTEM

|                                                                              |          |                                                                              |
|------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------|
| Type (ventilates to atmos., induction system, other)                         | Standard | Ventilates to induction system                                               |
|                                                                              | Optional | --                                                                           |
| Make and model                                                               |          |                                                                              |
| Location                                                                     |          | Tubing and hosing from underside of air cleaner to rear of engine shrouding. |
| Energy source (manifold vacuum, carburetor air stream, other)                |          | Manifold vacuum and/or carburetor air stream                                 |
| Control method (variable orifice, fixed orifice, other)                      |          | Variable Orifice                                                             |
| Discharges (to intake manifold, carb. air intake, air cleaner intake, other) |          | Carburetor air and compressor inlet                                          |
| Air inlet (breather cap, carburetor air cleaner, other)                      |          | Carburetor Air Cleaner                                                       |
| Flame arrestor (screen, check valve, other)                                  |          | Fixed Orifice                                                                |

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|-------|-------------|---------------|-------------------|
|       | 5-7-900     | 5-7-900       | 627-667           |
| MODEL | Std. Engine | Hi-Perf. Eng. | Turb./Chgd Engine |

## ENGINE—FUEL SYSTEM

(See Supplement to Page 8 for Details of Fuel Injection, Supercharger, etc. if used)

|                                                           |                                                 |                                                                               |                    |
|-----------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------|--------------------|
| Induction type: Carburetor, fuel injection, supercharger. |                                                 | Carburetor                                                                    | Supercharger (A)   |
| Fuel Tank                                                 | Capacity (gals.)                                | 14                                                                            |                    |
|                                                           | Filler location                                 | Left front fender crown                                                       |                    |
| Fuel Pump                                                 | Type (elec. or mech.)                           | Mechanical                                                                    |                    |
|                                                           | Locations                                       | Mounted on engine rear housing                                                |                    |
|                                                           | Pressure range                                  | 5.50 — 6.75 PSI                                                               |                    |
| Vacuum booster (std., optional, none)                     |                                                 | None                                                                          |                    |
| Fuel filter                                               | Type                                            | Fine mesh plastic strainer in gas tank                                        |                    |
|                                                           | Locations                                       | Sintered bronze in carburetor inlet                                           | (B)                |
| Carburetor                                                | Choke type                                      | Automatic                                                                     |                    |
|                                                           | Intake manifold heat control (exhaust or water) | Carburetors, manifold and intake air warmed by recirculating eng. cooling air | (A)                |
|                                                           | Air clnr. type                                  | Standard                                                                      | One, Paper element |
|                                                           | Optional                                        | One, Oil bath polyurethane element                                            | Polyurethane       |

## CARBURETOR SUPPLEMENTARY INFORMATION

| Model Usage                                                                                                                                                                                                                             | Engine Displ. | Transmission             | Carburetors            |                     | No. Used and Type | Barrel Size |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------|------------------------|---------------------|-------------------|-------------|
|                                                                                                                                                                                                                                         |               |                          | Make                   | Model               |                   |             |
| 500-700-900<br>(Std. Engine)                                                                                                                                                                                                            | 164           | 3 Spd & 4 Spd Powerglide | Rochester<br>Rochester | 7024023<br>●7024023 | 2*<br>2*          | 1.25        |
| 500-700-900<br>(Hi-Perf. Engine)                                                                                                                                                                                                        | 164           | 3 Spd, 4 Spd Powerglide  | Rochester<br>Rochester | 7024024<br>7024022  | 2*                | 1.25        |
| 627-667<br>Turbo/Chg Engine                                                                                                                                                                                                             | 164           | 3 Spd & 4 Spd.           | Carter                 | 3844233             | 1#                | 1.50        |
| * - One for each cylinder bank; Single barrel downdraft<br># - Single barrel (triple venturi) sidedraft<br>(A)- See supplement to page 8 for detail<br>(B)- Throw-away in line (paper element) located between fuel pump and carburetor |               |                          |                        |                     |                   |             |

# AMA Specifications – Passenger Car Supplement to Page 8

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## SUPPLEMENTARY INFORMATION

MODEL Corvair Monza Spyder 627-667

### Super Charger

Type ----- Turbo-Supercharger  
(Turbine Driven Compressor)

Make ----- Thompson

Turbine ----- Single Stage, In-Flow Type  
Material ----- High Temperature Cobalt Base Alloy  
Diameter (in) ----- 2.97  
Blades ----- 11, Equally Spaced  
Drive ----- Engine Exhaust Gases

Compressor ----- Centrifugal Impeller  
Material ----- Die Cast Aluminum Alloy  
Diameter (in.) ----- 3.00  
Blades ----- 14, Equally Spaced  
Drive ----- Solid Shaft from Turbine

Bearing ----- One Piece Floating Bushing  
Material ----- Aluminum Alloy  
Lubrication ----- Engine Oil, Full Pressure

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MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED (0)

MODEL \_\_\_\_\_

## ENGINE—COOLING SYSTEM

|                                                             |                              |                                    |  |
|-------------------------------------------------------------|------------------------------|------------------------------------|--|
| Type system (pressure, pressure vented, atmospheric, other) |                              |                                    |  |
| Radiator cap relief valve pressure                          |                              |                                    |  |
| Circulation thermostat                                      | Type (choke, bypass)         |                                    |  |
|                                                             | Starts to open at (°F)       | Refer to supplement page 9         |  |
| Water pump                                                  | Type (centrifugal, other)    |                                    |  |
|                                                             | GPM @ 1000 pump rpm          | for type of cooling                |  |
|                                                             | Number of pumps              |                                    |  |
|                                                             | Drive (V-belt, other)        |                                    |  |
|                                                             | Bearing type                 |                                    |  |
| By-pass recirculation type (internal, external)             |                              |                                    |  |
| Radiator core type (cellular, tube and fin, other)          |                              |                                    |  |
| Cooling system capacity                                     | With heater (qt.)            |                                    |  |
|                                                             | Without heater (qt.)         |                                    |  |
|                                                             | Opt. equipment-specify (qt.) |                                    |  |
| Water jackets full length of cylinder (yes, no)             |                              |                                    |  |
| Water all around cylinder (yes, no)                         |                              |                                    |  |
| Radiator hose                                               | Lower                        | Number and type (molded, straight) |  |
|                                                             |                              | Inside diameter                    |  |
|                                                             | Upper                        | Number and type (molded, straight) |  |
|                                                             |                              | Inside diameter                    |  |
|                                                             | By-pass                      | Number and type (molded, straight) |  |
|                                                             |                              | Inside diameter                    |  |
| Fan                                                         | Number of blades & Spacing   |                                    |  |
|                                                             | Diameter                     |                                    |  |
|                                                             | Ratio-fan to crankshaft rev. |                                    |  |
|                                                             | Fan cutout type              |                                    |  |
|                                                             | Bearing type                 |                                    |  |
| *Drive belts<br>(indicate belt used by letter)              | Fan                          |                                    |  |
|                                                             | Generator                    |                                    |  |
|                                                             | Water Pump                   |                                    |  |
|                                                             | Power Steering               |                                    |  |
|                                                             | Air Conditioning             |                                    |  |

|                         |  |
|-------------------------|--|
| * Drive Belt Dimensions |  |
| Angle of V              |  |
| Nominal length (SAE)    |  |
| Width                   |  |

# AMA Specifications – Passenger Car Supplement to Page 9

MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED (a)

## SUPPLEMENTARY INFORMATION

MODEL 500-600-700-900

| ENGINE - COOLING SYSTEM |                          |                                                                                                                                     |
|-------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Type                    |                          | Air, forced supply by centrifugal blower                                                                                            |
| Engine Shrouding        |                          | Engine enclosed in sheet metal to direct cooling air over fins on outside of engine cylinders, cylinder head castings and crankcase |
| Engine Blower           | Type                     | Centrifugal                                                                                                                         |
|                         | Location                 | Mounted horizontally on top center of engine                                                                                        |
|                         | Material                 | Magnesium                                                                                                                           |
|                         | Diameter                 | 11.20                                                                                                                               |
|                         | Number of vanes          | 11                                                                                                                                  |
|                         | Driven by                | "V" belt                                                                                                                            |
|                         | Air flow                 | 1460 cfm @ 4000 engine RPM                                                                                                          |
|                         | Pulley (PD)              | 4.1875                                                                                                                              |
|                         | Ratio-fan to crankshaft  | 1.58:1                                                                                                                              |
| Drive Belt              | Bearing type             | Permanently lubricated ball bearing                                                                                                 |
|                         | Type                     | "V"                                                                                                                                 |
|                         | Pitch length             | 55.7                                                                                                                                |
|                         | Width                    | .38                                                                                                                                 |
| Air Thermo-stats        | Angle of "V"             | 40°                                                                                                                                 |
|                         | Function; number         | Two; regulates air flow control doors                                                                                               |
|                         | Type                     | Bellows                                                                                                                             |
|                         | Location                 | Lower part of plenum under front cyls.                                                                                              |
|                         | Bellows start to open at | 205° (approximately)                                                                                                                |

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|             |         |             |               |                   |         |             |         |
|-------------|---------|-------------|---------------|-------------------|---------|-------------|---------|
| MAKE OF CAR | CORVAIR | MODEL YEAR  | 1964          | DATE ISSUED       | 9-23-63 | REVISED (a) | 12-3-63 |
|             |         | 5 7-900     | 5-7-900       | 627-667           |         |             |         |
| MODEL       |         | Std. Engine | Hi-Perf. Eng. | Turb/Chgd. Engine |         |             |         |

## ELECTRICAL—SUPPLY SYSTEM

|           |                               |                                 |                                 |
|-----------|-------------------------------|---------------------------------|---------------------------------|
| Battery   | Make and Model                |                                 | Delco #1980556                  |
|           | Voltage Rtg. & Total Plates   |                                 | 12 Volts - 54 Plates            |
|           | SAE Designation & Amp Hr. Rtg |                                 | 42 Amp hr @ 20 hr rate          |
|           | Location                      |                                 | Left side of engine compartment |
|           | Terminal grounded             |                                 | Negative                        |
| Generator | Make                          |                                 | Delco-Remy                      |
|           | Model                         |                                 | #1102226                        |
|           | Type                          |                                 | Two brush, shunt wound          |
|           | Ratio—Gen. to Cr/s rev.       |                                 | 2.3:1                           |
|           | Gen. cut-in (hot)—engine rpm  |                                 | 510                             |
| Regulator | Make                          |                                 | Delco-Remy                      |
|           | Model                         |                                 | #1119305                        |
|           | Type                          |                                 | Vibrator                        |
|           | Cutout relay                  | Closing voltage @ generator rpm | 11.8 - 13.5 @ 1300              |
|           |                               | Reverse current to open         | 1-4 amps @ 12 Volts             |
|           | Regulated                     | Voltage                         | 13.8 - 14.8                     |
|           |                               | Current                         | 27 - 33                         |
|           | Voltage test conditions       | Temperature                     | Operating                       |
|           |                               | Load                            | 8-10 amps                       |
|           |                               | Other                           | None                            |

## ELECTRICAL—STARTING SYSTEM

|                |                           |                  |                                                                                                                                                                                                                                                                                                                            |
|----------------|---------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Starting motor | Make                      |                  | Delco-Remy                                                                                                                                                                                                                                                                                                                 |
|                | Model                     |                  | #1108306                                                                                                                                                                                                                                                                                                                   |
|                | Rotation (drive end view) |                  | Clockwise                                                                                                                                                                                                                                                                                                                  |
|                | Engine cranking speed     |                  |                                                                                                                                                                                                                                                                                                                            |
|                | Test conditions           |                  | Operating Temperature                                                                                                                                                                                                                                                                                                      |
|                | Lock test                 | Amps             |                                                                                                                                                                                                                                                                                                                            |
|                |                           | Volts            |                                                                                                                                                                                                                                                                                                                            |
|                |                           | Torque (lb. ft.) |                                                                                                                                                                                                                                                                                                                            |
| Motor control  | No load test              | Amps             | 69                                                                                                                                                                                                                                                                                                                         |
|                |                           | Volts            | 10.6                                                                                                                                                                                                                                                                                                                       |
|                |                           | RPM (min.)       | 7675                                                                                                                                                                                                                                                                                                                       |
|                | Switch (solenoid, manual) |                  | Solenoid                                                                                                                                                                                                                                                                                                                   |
|                | Starting procedure        |                  | <p><b>SYNCHROMESH</b> - Place gearshift in neutral and depress clutch to floor.</p> <p><b>POWERGLIDE</b> - Place control lever in N position</p> <p><b>INITIAL START</b> - Press accelerator pedal to floor to set automatic choke then release. Turn ignition to <b>START</b> &amp; release as soon as engine starts.</p> |

(Continued)

# AMA Specifications – Passenger Car

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|       |             |                |                              |
|-------|-------------|----------------|------------------------------|
|       | 5-7-900     | 5-7-900        | 627-667                      |
| MODEL | Std. Engine | Pwr/gld Engine | Hi-Perf Eng. Turb/Chgd. Eng. |

## ELECTRICAL—STARTING SYSTEM (cont.)

|             |                             |          |                         |  |
|-------------|-----------------------------|----------|-------------------------|--|
| Motor Drive | Engagement type             |          | Positive shift solenoid |  |
|             | Pinion meshes (front, rear) |          | Rear                    |  |
|             | Number of teeth             | Pinion   | 9                       |  |
|             |                             | Flywheel | 147                     |  |
|             | Flywheel tooth face width   |          | .363 - .387             |  |

## ELECTRICAL—IGNITION SYSTEM

|                                           |                                                                            |                                     |                                                            |                   |                      |           |           |
|-------------------------------------------|----------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------|-------------------|----------------------|-----------|-----------|
| Coil                                      | Make                                                                       |                                     | Delco - Remy                                               |                   |                      |           |           |
|                                           | Model                                                                      |                                     | #1115135                                                   |                   | #1115172             |           |           |
|                                           | Amps                                                                       | Engine stopped                      | 4.0                                                        |                   |                      |           |           |
|                                           |                                                                            | Engine idling                       | 1.8                                                        |                   |                      |           |           |
| Distributor                               | Make                                                                       |                                     | Delco - Remy                                               |                   |                      |           |           |
|                                           | Model                                                                      |                                     | #1110310                                                   | #1110311          | #1110319             | #1110314  |           |
|                                           | Cent'fgal<br>adv. in<br>crankshaft<br>degrees @<br>engine rpm<br>(nominal) | Start (rpm)                         | 700                                                        | 1700              | 800                  | 3900      |           |
|                                           |                                                                            | Intermediate<br>points deg. @ rpm   |                                                            |                   |                      |           |           |
|                                           |                                                                            | Max deg. @ rpm                      | 28 @ 4200                                                  | 20 @ 4200         | 20 @ 4800            | 12 @ 4500 |           |
|                                           | Vacuum<br>adv. in<br>crankshaft<br>degrees @<br>in. Hg.<br>(nominal)       | Start (in Hg)                       | 6.00                                                       | 7.00              | 1.00 (a)             |           |           |
|                                           |                                                                            | Intermediate<br>points, deg @ in Hg |                                                            |                   |                      |           |           |
|                                           |                                                                            | Max. deg. in. Hg.                   | 24 @ 14.00                                                 | 24 @ 15.00        | 8° retard @ 3.25 (a) |           |           |
|                                           | Breaker gap (in.)                                                          |                                     | .019                                                       |                   |                      |           |           |
|                                           | Cam angle (deg.)                                                           |                                     | 31 - 34                                                    |                   |                      |           |           |
|                                           | Breaker arm tension (oz.)                                                  |                                     | 19 - 23                                                    |                   |                      |           |           |
|                                           | Timing                                                                     | Crankshaft deg. @ rpm.              |                                                            | 6° @ 500          | 14° @ 500            | 14° @ 600 | 24° @ 850 |
|                                           |                                                                            | Mark location                       |                                                            | Crankshaft Pulley |                      |           |           |
| Cylinder numbering system<br>(see page 2) |                                                                            | Left Bank 6-4-2<br>Right Bank 5-3-1 |                                                            |                   |                      |           |           |
| Firing order (see page 2)                 |                                                                            | 1-4-5-2-3-6                         |                                                            |                   |                      |           |           |
| Spark<br>Plug                             | Make and model                                                             |                                     | AC 46-FF                                                   |                   | AC 44-FF             |           |           |
|                                           | Thread (mm)                                                                |                                     | 14                                                         |                   |                      |           |           |
|                                           | Tightening torque (lb. ft.)                                                |                                     | 25                                                         |                   |                      |           |           |
|                                           | Gap                                                                        |                                     | .035 - .040                                                |                   |                      |           |           |
| Cable                                     | Conductor type                                                             |                                     | Linen core impregnated with electrical conducting material |                   |                      |           |           |
|                                           | Insulation type                                                            |                                     | Rubber with neoprene jacket                                |                   |                      |           |           |
|                                           | Spark plug protector                                                       |                                     | Neoprene                                                   |                   |                      |           |           |

## ELECTRICAL—SUPPRESSION

|                  |                                            |
|------------------|--------------------------------------------|
| Locations & type | Non - Metallic high tension ignition cable |
|------------------|--------------------------------------------|

(a) No vacuum advance - Unit operates on positive pressure.

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MODEL 5-6-7-900 ALL MODELS EXCEPT AS INDICATED

## ELECTRICAL—INSTRUMENTS AND SWITCHES

|                             |                                                     |                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Speed-ometer                | Make                                                | AC                                                                                                                                                                                                                                                                                                                                                                 |
|                             | Trip odometer (yes, no)                             | 600 Series only                                                                                                                                                                                                                                                                                                                                                    |
| Charge indicator—type       |                                                     | Tell-Tale Lamp                                                                                                                                                                                                                                                                                                                                                     |
| Temperature indicator—type  |                                                     | Tell-Tale Lamp                                                                                                                                                                                                                                                                                                                                                     |
| Oil pressure indicator—type |                                                     | Tell-Tale Lamp                                                                                                                                                                                                                                                                                                                                                     |
| Fuel indicator—type         |                                                     | Electric Gauge                                                                                                                                                                                                                                                                                                                                                     |
| Other                       |                                                     | Cylinder head temperature gauge (b)<br>Manifold Pressure gauge (b)                                                                                                                                                                                                                                                                                                 |
| Ignition switch             | Identify positions in order and circuits controlled | 1st Position-CCW from Vertical-LOCK<br>1st Position-CW from Vertical-OFF(unlocked)<br>2nd Position CW from Vertical-ON(Ignition, Battery, Accessories)<br>3rd Position CW from Vertical-START, spring return to ON                                                                                                                                                 |
|                             | Provision for illumination                          | None                                                                                                                                                                                                                                                                                                                                                               |
|                             | Location                                            | Instrument panel to right of steering column                                                                                                                                                                                                                                                                                                                       |
| Main light-ing switch       | Identify positions and lamps controlled             | Full Depressed-Off<br>1st Notch-Instru. Panel, Park, Tail and License Lamps<br>2nd Notch-Instru. Panel, Head, Tail and License Lamps<br>CW Rotation of Knob- Instru. Panel, Dim to Off<br>CCW Rotation of Knob-Instru. Panel Lamps, Off to Bright; Full<br>CCW Rotation, Dome and/or Instr. Panel Courtesy Lamps, On                                               |
| Other light switches        | Locations and lamps controlled                      | Toe Panel-Headlamp dimmer. Glove Compartment-Glove Compartment(c). Steering Mast Jacket-Direction Signal Indicator. Brake Pedal-Stop. Transmission Controls-Backup(c). Luggage compartment and engine compartment-Mercury switch at lamp(a). Front door hinge pillars-dome and courtesy(d). Below Instrument panel-Parking brake alarm (a).                        |
| Other switches              | Locations and devices controlled                    | Temp-Oil Pressure-Engine. Cyl. Head Temp. -Engine(b). Manifold pressure-crossover at intake manifold(b). Fan-Generator-Voltage Regulator. Heater-below Instru. Cluster. W/S Wiper-Instru. Cluster. Auto. Trans. Neutral Safety Switch - Steering mast jacket (a). A/C controls- below Instru. Panel (a). Hydraulic folding top motor - below Instrument Panel (e). |
| Windshield wiper            | Make                                                | Delco                                                                                                                                                                                                                                                                                                                                                              |
|                             | Type                                                | Electric, Single Speed Std.; two-speed available optionally •                                                                                                                                                                                                                                                                                                      |
|                             | Vacuum booster provision                            | None                                                                                                                                                                                                                                                                                                                                                               |
|                             | Washer provision                                    | DIA with Std. w/s wiper; included with optional two-speed w/s wiper                                                                                                                                                                                                                                                                                                |
| Horn                        | Type                                                | Vibrator                                                                                                                                                                                                                                                                                                                                                           |
|                             | Number used                                         | Model 500, one; Model 6-7-900, two                                                                                                                                                                                                                                                                                                                                 |
|                             | Amp draw (each)                                     | 8.00-11.0 @ 12.5V                                                                                                                                                                                                                                                                                                                                                  |

(a) Optional, All Models

(e) Optional on Models 667, 967

(b) 600 Series only

(c) Standard on 6-900 Models

(d) Dome Std. on all Models except 667 & 967; courtesy

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MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED (\*)

MODEL 5-6-7-900 ALL MODELS EXCEPT AS INDICATED

## ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002.

|                                  |                                                |                                 |
|----------------------------------|------------------------------------------------|---------------------------------|
| Headlamps & arrangement          | Dual, Horizontal: Outer, 2-4002; Inner, 2-4001 |                                 |
| Headlamp beam indicator          | 1-1445                                         |                                 |
| Parking                          | 2-1157                                         |                                 |
| Tail                             | 2-1157                                         |                                 |
| Stop                             | 2-1157                                         |                                 |
| Direction signal                 | Front                                          | 2-1157                          |
|                                  | Rear                                           | 2-1157                          |
|                                  | Indicator                                      | Except 600, 2-1445; 600, 2-1895 |
| License Plate                    | 1-1155                                         |                                 |
| Oil pressure and Temp. Indicator | 1-1895                                         |                                 |
| Charge and Fan Indicator         | 1-1895                                         |                                 |
| Instrument                       | Except 600, 2-1816; 600, 2-1895                |                                 |
| Clock                            | 1-1895                                         | Optional                        |
| Radio                            | 1-1893                                         | Optional                        |

Indicate also whether the following lamp assemblies are standard equipment, optional, or NA.

|                            |             |               |
|----------------------------|-------------|---------------|
| Ignition lock              | Not offered |               |
| Back up                    | 2-1156 (a)  | Optional      |
| Dome                       | 1-211       | Regular Prod. |
| Glove compartment          | 1-1895 (a)  | Optional      |
| Prkg. brake signal         | 1-257       | Optional      |
| Luggage compartment        | 1-1003      | Optional      |
| Underhood                  | 1-93        | Optional      |
| Courtesy (Instru. Panel)   | 2-631 (b)   | Optional      |
| Map                        | Not offered |               |
| Auto Trans. Dial Indicator | 1-1445      | Optional      |
| Heater Controls            | 1-1445      | Regular Prod. |

(a) Reg. Prod. on 6 & 900

(b) Reg. Prod. on Convertibles

## Regular Production Lamp Bulbs Continued

### Model 600 Only

|                 |        |
|-----------------|--------|
| Fuel Gage       | 1-1895 |
| Vacuum Gage     | 1-1895 |
| Tachometer Gage | 1-1895 |
| Temp. Gage      | 1-1895 |

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MODEL 5-6-7-900 ALL MODELS EXCEPT AS INDICATED

## ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

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

|                                         |                    |                                             |
|-----------------------------------------|--------------------|---------------------------------------------|
| Headlamp                                | (a) - - - 15 C. B. | Fuel Gage, (d)                              |
| Headlamp beam indicator                 | (a)                | Cigar Lighter (b) -                         |
| Parking lamp                            | (a)                | Tach. Gage Lamp (c)                         |
| Tail lamp                               | (b) - - - AGC 10   | Temp. Gage Lamp (c)                         |
| Stop lamp                               | (b)                | Vacuum Gage Lamp (c)                        |
| Direction indicator                     | (c) - - - AGC 3    | Fuel Gage Lamp (c)                          |
| License plate lamp                      | (b)                | Folding Top Motor, Instru. Panel - 40 C. B. |
| Instrument lamp                         | (c)                | W/S Wiper (2-Speed)                         |
| Ignition lamp                           | - -                | Switch - - - 14 C. B.                       |
| Back up lamp                            | (d)                | (f)                                         |
| Dome lamp                               | (b)                | Underhood Lamp in Line - - - AGC 4          |
| Clock 6 & 900                           | (g) *              | Lugg. Compt Lamp (b)                        |
| Clock lamp                              | (c)                | Park. Brake Alarm (d)                       |
| Radio                                   | (e) - - - AGC 2.5  | Air Conditioning                            |
| Glove compartment lamp 6 & 900          | (g) - - - AGC 10   | In Line - - - AGC 15                        |
| Heater 5 & 700                          | (d) - - - AGC 10   | In Line - - - AGC 15                        |
| Heater 6 & 900                          | (d) - - - AGC 15   |                                             |
| Courtesy (Instru. Panel) 6 & 900 (g) ** |                    |                                             |
| W/S Wiper                               | (f) - - - SAE 20   |                                             |
| Heater Control Lamp                     | (c)                |                                             |
| Auto. Trans. Dial Indicator             | (c)                |                                             |
| Oil and Temp. Indicator                 | (d)                |                                             |
| Tach. Gage                              | (d)                |                                             |
| Gen. and Fan Indicator                  | (d)                |                                             |
| Temp. Gage and Buzzer                   | (d)                |                                             |

## ELECTRICAL—LOCATION OF OUTSIDE LAMPS

|                                            |               |          |               |
|--------------------------------------------|---------------|----------|---------------|
| Height above ground to center of bulb      | Tail          | Lowest   | 23.6          |
|                                            |               | Highest  | 23.6          |
|                                            | Stop          |          | 23.6          |
|                                            | Backup        |          | 23.6          |
|                                            | License, rear |          | 26.2          |
|                                            | Directional   | Front    | 20.2          |
|                                            |               | Rear     | 23.6          |
|                                            | Headlamp      | Inside   | 24.2          |
|                                            |               | Outside* | 24.2          |
| Distance from C/L of car to center of bulb | Tail          | Inside   | --            |
|                                            |               | Outside  | 24.8          |
|                                            | Stop          |          | 24.8          |
|                                            | Backup        |          | 18.3          |
|                                            | License, rear |          | On centerline |
|                                            | Directional   | Front    | 22.6          |
|                                            |               | Rear     | 24.8          |
|                                            | Headlamp      | Inside   | 20.8          |
|                                            |               | Outside* | 28.6          |

\* If single headlamps are used enter here.

\* 5 & 700 without glove compt. lamp, AGC 3

\*\* 5 & 700 without glove compt. lamp, AGC 4

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MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED (\*)

MODEL 5-6-7-900

ALL MODELS EXCEPT AS INDICATED

## DRIVE UNITS—CLUTCH (Manual Transmission)

|                                |                                                         |                                          |
|--------------------------------|---------------------------------------------------------|------------------------------------------|
| Make & type                    | Chevrolet, Single Dry Disk, Centrifugal                 |                                          |
| Type pressure plate springs    | Diaphragm, Bent Finger Design                           |                                          |
| Effective plate pressure (lb.) | Except turbocharged, 1250-1450; Turbocharged, 1275-1475 |                                          |
| No. of clutch driven discs     | One with two friction surfaces                          |                                          |
| Clutch facing                  | Material                                                | Woven asbestos                           |
|                                | Outside & inside dia.                                   | 8.0, 6.0 except Turbocharged, 9.12, 6.12 |
|                                | Total eff. area (sq.in.)                                | 44.0 except Turbocharged, 71.8           |
|                                | Thickness                                               | 135 ea., unloaded                        |
|                                | 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                     | None                                     |

## DRIVE UNITS—TRANSMISSIONS

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| Manual (std. or opt.)                | 3-Speed Standard; 4-Speed Optional                |
| Manual with overdrive (std. or opt.) | Not offered                                       |
| Automatic (std. or opt.)             | Powerglide optional with 500, 700 and 900 models. |

## DRIVE UNITS—MANUAL TRANSMISSION

| Number of forward speeds           |                      | 3-Speed                                     | 4-Speed           |
|------------------------------------|----------------------|---------------------------------------------|-------------------|
| Transmission ratios                | In first             | 3.22                                        | 3.20              |
|                                    | In second            | 1.84                                        | 2.19              |
|                                    | In third             | 1.00                                        | 1.44              |
|                                    | In fourth            | --                                          | 1.00              |
|                                    | In reverse           | 3.22                                        | 3.66              |
| Synchronous meshing, specify gears |                      | 2nd & 3rd                                   | All forward gears |
| Shift lever location               |                      | Floor                                       |                   |
| Lubricant                          | Capacity (pt.)       | 2.2                                         | 3.6               |
|                                    | Type recommended     | Meeting Military Specification MIL-L-2105-B |                   |
|                                    | SAE viscosity number | Summer                                      | SAE 80            |
|                                    |                      | Winter                                      | SAE 80            |
|                                    |                      | Extreme cold                                | SAE 80            |

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MODEL 5-6-7-900 ALL MODELS EXCEPT AS INDICATED

## DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE NOT OFFERED

For transmission data see manual transmission section

|           |                                         |                                 |                               |
|-----------|-----------------------------------------|---------------------------------|-------------------------------|
| Overdrive | Type (planetary or other)               |                                 |                               |
|           | Manual lockout (yes, no)                |                                 |                               |
|           | Downshift accelerator control (yes, no) |                                 |                               |
|           | Minimum cut-in speed                    |                                 |                               |
|           | Gear ratio                              |                                 |                               |
|           | Lu-<br>bri-<br>cant                     | Capacity (pt.) (Overdrive only) |                               |
|           |                                         | Separate filler (yes, no)       |                               |
|           |                                         | Type recommended                |                               |
|           |                                         | SAE vis-<br>cosity<br>number    | Summer<br>Winter<br>Ext. cold |

## DRIVE UNITS—AUTOMATIC TRANSMISSION

|                                                                                               |                              |                                         |
|-----------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|
| Trade name                                                                                    |                              | Powerglide                              |
| Type describe                                                                                 |                              | Torque Converter with Planetary Gears   |
| Method of Selection<br>(Lever, Push Button or other)                                          |                              | Lever                                   |
| Selector Pattern                                                                              |                              | D<br>N<br>R                             |
| List gear ratios Selector Pattern and<br>indicate which are used in each<br>selector position |                              | D-1.82:1 and 1.00:1<br>L and R - 1.82:1 |
| Max. upshift speeds—drive range                                                               |                              | 49                                      |
| Max. kickdown speeds—drive range                                                              |                              | 45                                      |
| Torque<br>converter                                                                           | Number of elements           | 3                                       |
|                                                                                               | Max. ratio at stall          | 2.60:1                                  |
|                                                                                               | Type of cooling (air, water) | None                                    |
| Lubricant                                                                                     | Capacity—refill (pt.)        | 6                                       |
|                                                                                               | Type recommended             | Type A, Suffix A                        |
| Special transmission<br>features                                                              |                              |                                         |

## DRIVE UNITS—PROPELLER SHAFT NONE

|                                                       |                        |  |
|-------------------------------------------------------|------------------------|--|
| Number used                                           |                        |  |
| Type (exposed, torque tube)                           |                        |  |
| Outer<br>diameter x<br>length* x<br>wall<br>thickness | Manual transmission    |  |
|                                                       | Overdrive transmission |  |
|                                                       | Automatic transmission |  |

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

(Continued)

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# AMA Specifications – Passenger Car

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MODEL 5-6-7-900 ALL MODELS EXCEPT AS INDICATED

## DRIVE UNITS—PROPELLER SHAFT (cont.)

|                                                     |                                        |                                                           |
|-----------------------------------------------------|----------------------------------------|-----------------------------------------------------------|
| Inter-mediate bearing                               | Type (plain, anti-friction)            |                                                           |
|                                                     | Lubrication (fitting, prepack)         |                                                           |
| Universal joints                                    | Make                                   |                                                           |
|                                                     | Number used                            |                                                           |
|                                                     | Type (ball and trunnion, cross, other) |                                                           |
|                                                     | Bearing                                | Type (plain, anti-friction)<br>Lubric. (fitting, prepack) |
| Drive taken through (torque tube or arms, springs)  |                                        |                                                           |
| Torque taken through (torque tube or arms, springs) |                                        |                                                           |

## DRIVE UNITS—REAR AXLE

|                                   |                        |                                                                                                                  |
|-----------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------|
| Description (see instructions)    |                        | Component of transaxle system: Straddle mounted hypoid gear with differential carrier rigidly mounted to Engine. |
| Limited Slip differential, type   |                        | Disk clutch, one side                                                                                            |
| Drive Pinion Offset               |                        | 1.75                                                                                                             |
| No. of differential pinions       |                        | 2                                                                                                                |
| Gear ratios (Std. equip.)         | Manual transmission    | All except 600 models; 3-and 4-speed, 3.27:1. 600 Models; 3-and 4-speed, 3.55:1                                  |
|                                   | Overdrive transmission | Not offered                                                                                                      |
|                                   | Automatic transmission | With Regular Production Engine, 3.27:1;<br>With Hi-Performance Engine, 3.55:1                                    |
| Ring gear O.D. (std. ratio)       |                        | 6.750                                                                                                            |
| Pinion adjustment (shim, other)   |                        | Shim                                                                                                             |
| Pinion bearing adj. (shim, other) |                        | None                                                                                                             |
| Wheel bearing type                |                        | Double row spherangular roller                                                                                   |
| Lubricant                         | Capacity (pt.)         | 4.0                                                                                                              |
|                                   | Type recommended       | Military Specification MIL-L-2105-B                                                                              |
|                                   | SAE viscosity number   | Summer<br>SAE 80                                                                                                 |
|                                   |                        | Winter<br>SAE 80                                                                                                 |
|                                   |                        | Extreme cold<br>SAE 80                                                                                           |

## REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

| Axle ratio   |           | 3.27:1 | 3.55:1 |  |
|--------------|-----------|--------|--------|--|
| No. of teeth | Pinion    | 11     | 9      |  |
|              | Ring gear | 36     | 32     |  |

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## DRIVE UNITS—WHEELS

|                            |                     |                            |
|----------------------------|---------------------|----------------------------|
| Type & material            |                     | Short spoke disk, steel    |
| Rim (size and flange type) | Std.                | 13 x 5.5J                  |
|                            | Opt.                | 13 x 5.5J Wire Wheel       |
| Attachment                 | Type (bolt or stud) | Stud (a)                   |
|                            | Circle diameter     | 4.5                        |
|                            | Number and size     | 4 Hex Nuts, 7/16-20 UNF 2B |

## DRIVE UNITS—TIRES

|                               |                    |                                                                                                                              |
|-------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------|
| Standard (List option below)  | Size & ply         | 6.50 x 13-4 PR                                                                                                               |
|                               | Type - Nylon, etc. | Rayon, tubeless, blackwall                                                                                                   |
| Rev/mile at 50 mph.           |                    | 864                                                                                                                          |
| Inflation press. (cold)       | Front              | 15                                                                                                                           |
|                               | Rear               | 26                                                                                                                           |
| Optional tires - size and ply |                    | 6.50 x 13-4 PR, highway, rayon, tubeless, w/wall;<br>with wire wheel option, 6.50 x 13-4 PR, highway,<br>rayon, tube, w/wall |

## BRAKES—SERVICE

|                                                  |                   |                                                        |
|--------------------------------------------------|-------------------|--------------------------------------------------------|
| Type (duo-servo, disc, balanced, etc.)           |                   | Duo-Servo, 4-wheel Hydraulic, Reverse, self-adjusting  |
| Self adjusting (std., opt., N.A.)                |                   | Standard                                               |
| Hydraulic system type (single, dual, etc.)       |                   | Single                                                 |
| Power brake make & type (remote, integral, etc.) |                   | Not offered                                            |
| Effective area (sq. in.)*                        |                   | 126.1                                                  |
| Gross lining area (sq. in.)**                    |                   | 126.1                                                  |
| Swept drum area (sq. in.)***                     |                   | 197.9                                                  |
| Percent brake effectiveness—front                |                   | 46                                                     |
| Drum                                             | Diameter          | Front 9.0<br>Rear 9.0                                  |
|                                                  | Type and material | Composite: Cast iron rim; Steel web. Rear drums finned |
| Wheel cyl-inder bore                             | Front             | .875                                                   |
|                                                  | Rear              | .9375                                                  |
| Master cylinder bore                             |                   | 1.0                                                    |
| Available pedal travel                           |                   | 6.0                                                    |
| Line pressure at 100 lb. pedal load              |                   | 783                                                    |
| Shoe clearance adjustment                        |                   | Self-adjusting                                         |

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

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

\*\*\* Total swept areas for four brakes

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

(Continued)

(a) For wire wheel, adapter and spinner cap (2-5/8-8 UN 2B)

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MODEL 5-6-7-900

ALL MODELS EXCEPT AS INDICATED

## BRAKES—SERVICE (cont.)

|              |                   |                                   |             |                   |   |
|--------------|-------------------|-----------------------------------|-------------|-------------------|---|
| Brake lining | Bonded or riveted |                                   |             | Bonded            |   |
|              | Front Shoe        | Material                          |             | Molded Asbestos   |   |
|              |                   | Size (length x width x thickness) | Front wheel | 8.62 x 1.75 x .17 |   |
|              |                   |                                   | Rear wheel  | 8.62 x 1.75 x .17 |   |
|              |                   | Segments per shoe                 |             |                   | 1 |
|              | Rear Shoe         | Material                          |             | Molded Asbestos   |   |
|              |                   | Size (length x width x thickness) | Front wheel | 9.40 x 1.75 x .20 |   |
|              |                   |                                   | Rear wheel  | 9.40 x 1.75 x .20 |   |
|              |                   | Segments per shoe                 |             |                   | 1 |

## BRAKES—PARKING

|                                 |                                                 |    |  |
|---------------------------------|-------------------------------------------------|----|--|
| Type of control                 | Ratchet; handle operated pulleys and cables     |    |  |
| Location of control             | Below instrument panel, left of steering column |    |  |
| Operates on                     | Rear service brakes                             |    |  |
| If separate from service brakes | Type (internal or external)                     | -- |  |
|                                 | Drum diameter                                   | -- |  |
|                                 | Lining size (length x width x thickness)        | -- |  |

## FRAME or UNITIZED CONSTRUCTION

|                      |                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type and description | Integral, with step-down underbody floor, front and rear side rail type members, and front and rear end sheet metal components welded to body assembly. |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|

## SUSPENSION—GENERAL (See Supplemental page 19 for details on Air Suspension)\*

|                                    |             |                                                                                                                                                      |
|------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Provision for car leveling         |             | Front stabilizer bar                                                                                                                                 |
| Provision for brake dip control    |             | Mounting angle of front upper control arms                                                                                                           |
| Provision for acc. squat control   |             | None                                                                                                                                                 |
| Special provisions for car jacking |             | Front wheels; place jack 4" rear of seam in body side sill (in area of front door front edge). rear wheels; place jack 10" forward of wheel opening. |
| Shock absorber front & rear        | Type        | Direct, double acting, hydraulic                                                                                                                     |
|                                    | Make        | Delco                                                                                                                                                |
|                                    | Piston dia. | 1.00                                                                                                                                                 |
| Other special features             |             | Rear suspension coil springs in combination with Transverse single leaf spring                                                                       |

## SUSPENSION—FRONT

|                      |                                                                                                                                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Type and description | Independent - SLA type with coil spring and concentric shock absorber, and spherically-jointed steering knuckle for each wheel. |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|

\* Air Suspension:  
Air spring type  
Compressor data  
type  
make  
drive ratio

Normal operating pressures  
spring rates  
leveling data

(Continued)

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## SUSPENSION FRONT (cont.)

|            |                                                     |                                  |
|------------|-----------------------------------------------------|----------------------------------|
| Spring     | Type                                                | Coil                             |
|            | Material                                            | Steel alloy                      |
|            | Size (coil design height & I.D.; bar length x dia.) | 6.42 and 3.453;<br>90.351 x .470 |
|            | Spring rate (lb. per in.)                           | 182                              |
|            | Rate at wheel (lb. per in.)                         | 106.5                            |
|            | Design load (lb. @ design height)                   | 770 @ 6.42                       |
| Stabilizer | Type (link, linkless, frameless)                    | Linkless                         |
|            | Material & bar diameter                             | Steel, .810                      |

## STEERING

|                                                |                                           |                        |                   |                                                                      |  |
|------------------------------------------------|-------------------------------------------|------------------------|-------------------|----------------------------------------------------------------------|--|
| Manual (std., opt., NA)                        |                                           |                        |                   | Standard                                                             |  |
| Power (std., opt., NA)                         |                                           |                        |                   | Not offered                                                          |  |
| Adjustable steering wheel (tilt, swing, other) |                                           | Type and description   |                   | Not offered                                                          |  |
|                                                |                                           | (std., opt., NA)       |                   | ---                                                                  |  |
| Wheel diameter                                 |                                           | Manual                 |                   | 16.0                                                                 |  |
|                                                |                                           | Power                  |                   | ---                                                                  |  |
| Turning diameter                               | Outside front                             | Wall to wall (l. & r.) |                   | 40.1                                                                 |  |
|                                                |                                           | Curb to curb (l. & r.) |                   | 38.2                                                                 |  |
|                                                | Inside rear                               | Wall to wall (l. & r.) |                   | 22.8                                                                 |  |
|                                                |                                           | Curb to curb (l. & r.) |                   | 23.1                                                                 |  |
| Outside wheel angle with inside wheel at 20°   |                                           |                        |                   | 18.18°                                                               |  |
| Manual                                         | Gear                                      | Type                   |                   | Semi-reversible, recirculating ball nut with integral steering shaft |  |
|                                                |                                           | Make                   |                   | Saginaw                                                              |  |
|                                                |                                           | Ratios                 | Gear              | 18:1                                                                 |  |
|                                                |                                           |                        | Overall           | 25:1                                                                 |  |
|                                                | No. wheel turns                           |                        | Lock to Lock 4.75 |                                                                      |  |
| Power                                          | Type (coaxial, linkage, etc.)             |                        | --                |                                                                      |  |
|                                                | Make                                      |                        | --                |                                                                      |  |
|                                                | Gear                                      | Type                   |                   | --                                                                   |  |
|                                                |                                           | Ratios                 | Gear              | --                                                                   |  |
|                                                |                                           |                        | Overall           | --                                                                   |  |
|                                                | Pump driven by                            |                        | --                |                                                                      |  |
|                                                | Number wheel turns                        |                        | --                |                                                                      |  |
| Linkage                                        | Type                                      |                        | Parallel relay    |                                                                      |  |
|                                                | Location (front or rear of wheels, other) |                        | Front             |                                                                      |  |
|                                                | Drag link (trans. or longit.)             |                        | None              |                                                                      |  |
|                                                | Tie rods (one or two)                     |                        | Two               |                                                                      |  |

(Continued)

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MODEL 5-6-7-900

ALL MODELS EXCEPT AS INDICATED

## STEERING (cont.)

|                                       |                               |               |                                                         |
|---------------------------------------|-------------------------------|---------------|---------------------------------------------------------|
| Steering Axis                         | Inclination at camber (deg.)  |               | 6-1/2 to 7-1/2                                          |
|                                       | Bearings (type)               | Upper         | Ball stud with non-metallic bearing surfaces            |
|                                       |                               | Lower         | Ball stud with non-metallic bearing surfaces            |
|                                       |                               | Thrust        | None                                                    |
| Wheel alignment (range and preferred) | Caster (deg.)                 |               | P1-1/2 to P2 (Curb)                                     |
|                                       | Camber (deg.)                 |               | 0 to P1 (Curb)                                          |
|                                       | Toe-in (outside tread-inches) |               | 5/32 per wheel (Curb)                                   |
|                                       | Steering spindle & joint type |               | Forging with pad for mounting brake cylinder, spherical |
| Wheel spindle                         | Diameter                      | Inner bearing | 1.0623-1.0618                                           |
|                                       |                               | Outer bearing | .6868-.6873                                             |
|                                       | Thread size                   |               | 11/16-24 NEF-3 (Modified)                               |
|                                       | Bearing type                  |               | Taper Roller                                            |
|                                       |                               |               |                                                         |

## SUSPENSION—REAR (a)

|                                             |                                                                       |               |                                                                                                   |     |  |  |
|---------------------------------------------|-----------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------|-----|--|--|
| Type and description                        |                                                                       |               | Swing axle independent rear suspension (b)                                                        |     |  |  |
| Drive and torq. taken through (see page 17) |                                                                       |               | Drive through control arms; torque through chassis                                                |     |  |  |
| Spring                                      | Type                                                                  |               | Coil and Single-Leaf                                                                              |     |  |  |
|                                             | Material                                                              |               | Steel Alloy                                                                                       |     |  |  |
|                                             | Size (length x width, coil design height and I.D.; bar length & dia.) |               | Single-Leaf: 47.70 x 2.68; Coil: RH-7.45 & 3.453; 98.804 x .486; LH-7.45 & 3.453; 111.867 x .506. |     |  |  |
|                                             | Spring rate (lb. per in.)                                             |               | Single-Leaf: 290; Coil: 185.                                                                      |     |  |  |
|                                             | Rate at wheel (lb. per in.)                                           |               | 142.5 (combined)                                                                                  |     |  |  |
|                                             | Design load (lb. at design height)                                    |               | Sgl-Leaf: 915 @ N. 81 camber; Coil: RH-950 @ 7.45; LH-1095 @ 7.45                                 |     |  |  |
|                                             | Mounting insulation type                                              |               | None                                                                                              |     |  |  |
|                                             | If leaf                                                               | No. of leaves |                                                                                                   | One |  |  |
|                                             |                                                                       | Insights      | Type and size                                                                                     | --  |  |  |
| Material                                    |                                                                       |               | --                                                                                                |     |  |  |
| Shackle (comp. or tens.)                    |                                                                       |               | For vertical loading only                                                                         |     |  |  |
| Stabilizer                                  | Type (link, linkless, frameless)                                      |               | None                                                                                              |     |  |  |
|                                             | Material                                                              |               | --                                                                                                |     |  |  |
| Track bar type                              |                                                                       |               | None                                                                                              |     |  |  |

### (a) Rear Wheel Alignment

Camber (Degrees) - - - - P1 (Curb)

Toe-In (Overall) - - - - 1/4 (Curb)

- (b) With hollow box-section type upper control arms, coil springs and concentric shock absorbers, and transverse single leaf spring rubber-mounted at Differential. Rear wheels driven independently through universally-jointed axle shafts. Drive and torque taken through control arms.

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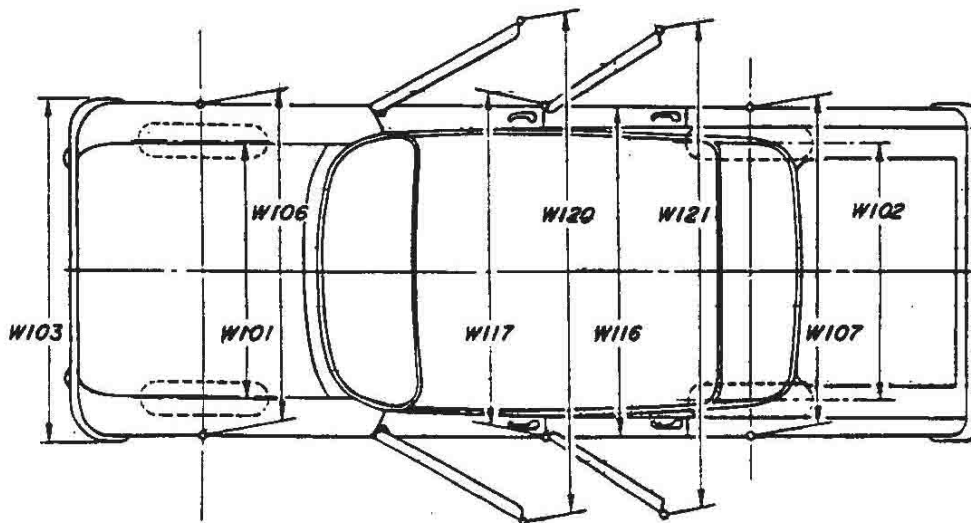
MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED (a)

## CAR AND BODY DIMENSIONS—GENERAL

Dimensions herein are those adopted by the Society of Automotive Engineers. Brief descriptions of these dimensions are listed on pages 34-36. Complete definitions are listed in section E-1 of the SAE Aeronautical - Automotive Drawing Standards. The dimensions are developed from the following basic points:

1. Body dimensions are for all body styles.
2. All interior dimensions are taken with manikin 15.0 inches outboard of car centerline unless otherwise stated.
3. All interior dimensions are measured with the front seat in the lowest and rearmost position.
4. Unless otherwise specified, all exterior height dimensions are taken with a full design load which consists of 5 passengers, 300 lbs. front, 450 lbs. rear; includes spare wheel, tire and tools, and full complement of gas, oil, water and tires to recommended pressure, etc.
5. The SAE manikin with 90th percentile leg length will be used for recording purposes.
6. The H Point is the pivot center of the manikin's torso and thigh.
7. The D Point is the point of tangency of a horizontal line and the lowest point of the manikin.
8. The Torso Line is a line parallel to the small of manikin's back and extending through the H Point.

## EXTERIOR WIDTH DIMENSIONS



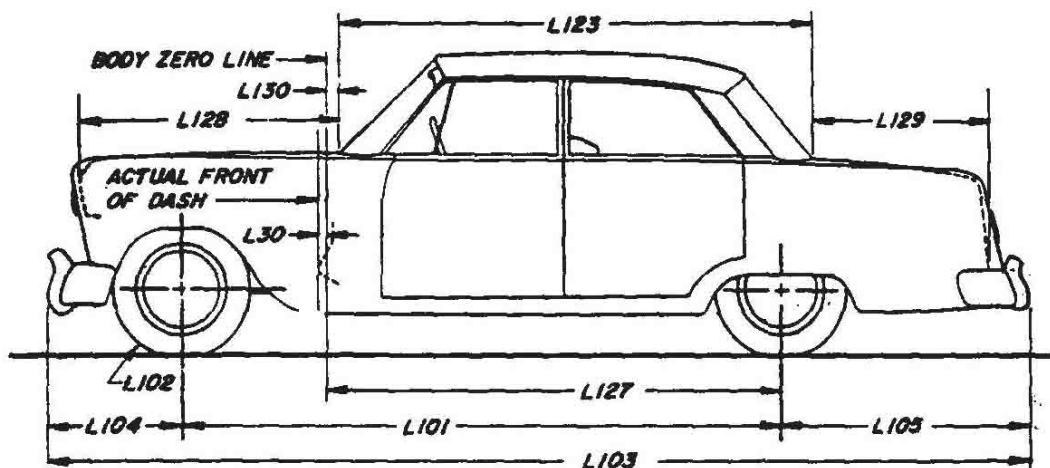
| MODEL                                        | Ref. No. | Sedans | Coupes | Convertibles |
|----------------------------------------------|----------|--------|--------|--------------|
| 5-6-7-900                                    |          |        |        |              |
| Tread - front                                | W101     |        | 54.4   |              |
| Tread - rear                                 | W102     |        | 55.1   |              |
| Maximum overall car width                    | W103     |        | 67.0   |              |
| Maximum overall body width                   | W116     |        | 67.0   |              |
| Maximum body width at #2 pillar              | W117     | 66.0   | ---    | ---          |
| Front fender overall width                   | W106     |        | 66.3   |              |
| Rear fender overall width                    | W107     |        | 65.5   |              |
| Maximum overall car width - front doors open | W120     | 130.1  |        | 145.5        |
| Maximum overall car width - rear doors open  | W121     | 124.1  |        | ---          |

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## EXTERIOR LENGTH DIMENSIONS



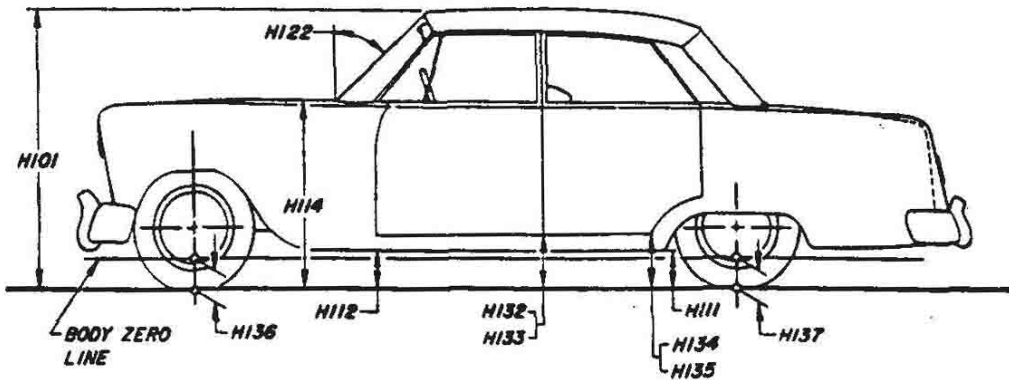
| MODEL                                         | Ref. No. | SEDANS           | COUPES | CONVERTIBLES |
|-----------------------------------------------|----------|------------------|--------|--------------|
| 5-6-7-900                                     |          |                  |        |              |
| Body zero line to actual front of dash        | L30      |                  | .6     |              |
| Wheelbase                                     | L101     |                  | 108.0  |              |
| Overhang - front                              | L104     |                  | 30.3   |              |
| Overhang - rear                               | L105     |                  | 41.7   |              |
| Overall length                                | L103     |                  | 180.0  |              |
| Hood length at car centerline                 | L128     |                  | 42.4   |              |
| Body upper structure length at car centerline | L123     | 95.7             | 85.7   | 90.2         |
| Deck length at car centerline                 | L129     | 35.3             | 44.3   | 39.9         |
| Body zero line to centerline of rear wheels   | L127     |                  | 99.0   |              |
| Body zero line to windshield cowl point       | L130     |                  | 9.7    |              |
| Tire size                                     | L102     | Refer to Page 18 |        |              |

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## EXTERIOR HEIGHT DIMENSIONS



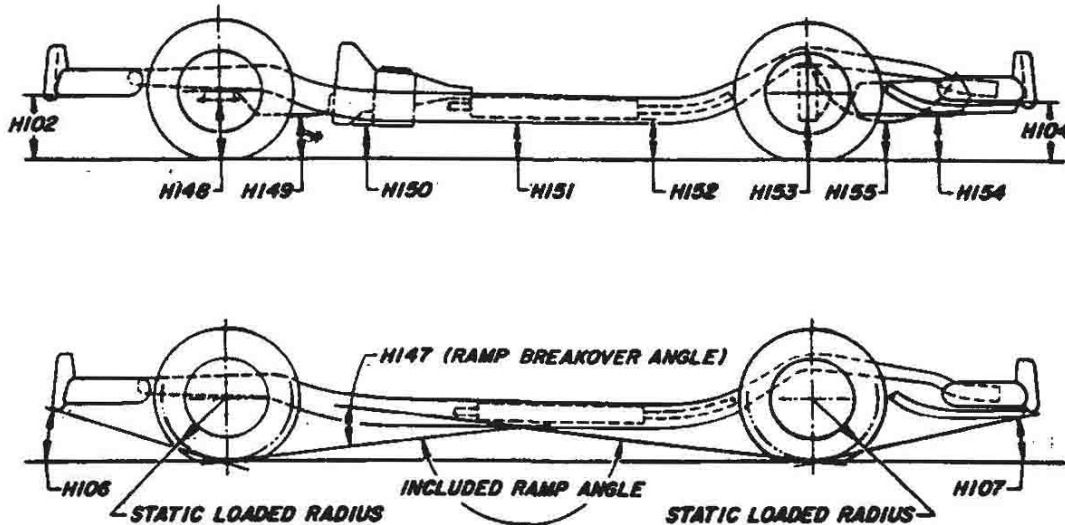
| MODEL<br>5-6-7-900                          | Ref.<br>No. | SEDANS | COUPES | CONVERTIBLES |
|---------------------------------------------|-------------|--------|--------|--------------|
| Overall height                              | H101        | 51.5   | 51.4   | 51.1         |
| Hood at rear<br>to ground                   | H114        | 34.2   |        |              |
| Rocker panel to<br>ground - front           | H112        | 7.7    | 7.3    |              |
| Rocker panel to<br>ground - rear            | H111        | 7.2    | 7.0    |              |
| Bottom of door to<br>ground, open - front   | H132        | 12.2   | 12.4   |              |
| Bottom of door to<br>ground, closed - front | H133        | 10.8   |        |              |
| Bottom of door to<br>ground, open - rear    | H134        | 10.8   | ---    | ---          |
| Bottom of door to<br>ground, closed - rear  | H135        | 10.6   | ---    | ---          |
| Windshield<br>slope angle                   | H122        | 52.8°  |        |              |
| Body zero to<br>ground - front              | H136        | 5.1    |        |              |
| Body zero to<br>ground - rear               | H137        | 5.1    |        |              |

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## GROUND CLEARANCE DIMENSIONS



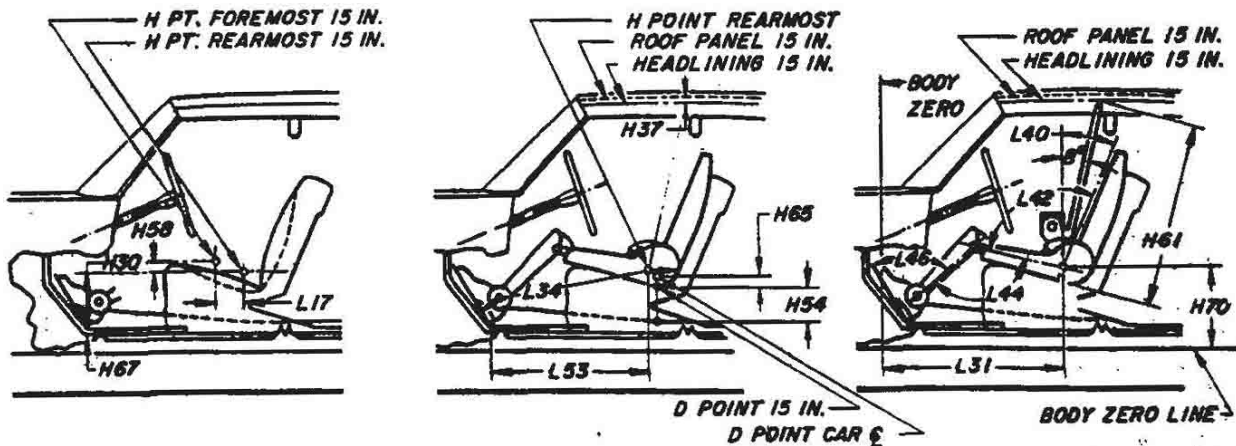
| MODEL<br>5-6-7-900               | Ref.<br>No. | SEDANS | COUPES | CONVERTIBLES |
|----------------------------------|-------------|--------|--------|--------------|
| Front bumper to ground           | H102        | 15.1   | 15.0   | 14.8         |
| Rear bumper to ground            | H104        | 15.2   | 15.5   | 15.3         |
| Angle of approach                | H106        | 25.4°  | 24.8°  | 24.4°        |
| Angle of departure               | H107        | 14.5°  | 15.4°  | 15.0°        |
| Ramp breakover angle             | H147        | 12.7°  | 12.9°  | 12.5°        |
| Front suspension to ground       | H148        | 6.0    | 5.8    | 6.0          |
| Oil pan to ground                | H149        |        | 6.0    | 5.8          |
| Flywheel housing to ground       | H150        |        | 5.5    |              |
| Frame structure to ground        | H151        | 5.8    |        | 5.6          |
| Exhaust system to ground         | H152        | 7.2    | 7.6    | 7.4          |
| Rear axle differential to ground | H153        | 5.4    | 5.9    | 5.7          |
| Fuel tank to ground              | H154        |        | 6.6    | 6.4          |
| Spare tire well to ground        | H155        |        | ---    |              |
| Minimum running ground clearance | H156        |        | 5.5    |              |

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## FRONT COMPARTMENT DIMENSIONS



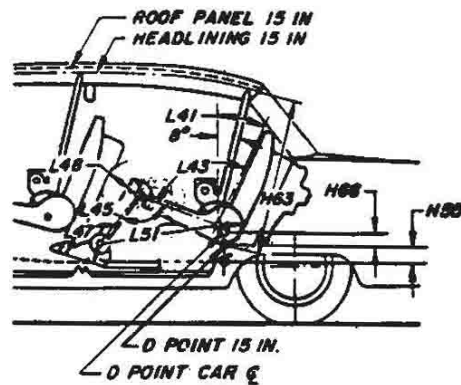
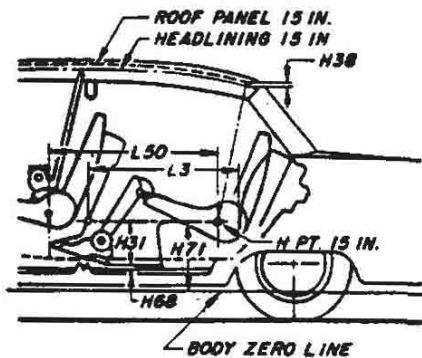
| MODEL<br>5-6-7-900                       | Ref.<br>No. | Sedans |        | Coupes |        | Convertibles<br>Bucket |
|------------------------------------------|-------------|--------|--------|--------|--------|------------------------|
|                                          |             | Bench  | Bucket | Bench  | Bucket |                        |
| H Point to body zero line                | L31         | 42.9   | 42.6   | 42.7   |        |                        |
| H Point to body zero line - front        | H70         | NA     |        |        |        |                        |
| Effective head room                      | H61         | 37.6   | 37.7   | 37.7   | 37.6   | 37.9                   |
| Headlining to roof height                | H37         | .5     | .6     | .5     | .6     | ---                    |
| Maximum effective leg room - accelerator | L34         | 41.1   | 41.0   |        |        |                        |
| H Point to heel point                    | H30         | 7.5    | 7.6    | 7.5    | 7.6    |                        |
| Depressed floor covering thickness       | H67         | .5     |        |        |        |                        |
| Back angle                               | L40         | 24°    | 25°    |        |        |                        |
| Hip angle                                | L42         | 92°    | 93°    | 92°    | 93°    |                        |
| Knee angle                               | L44         | 124°   | 123°   | 122°   | 123°   |                        |
| Foot angle                               | L46         | 78°    | 78°    | 77.5°  | 77°    |                        |
| D Point differential, side to center     | H65         | .2     | ---    | .1     | ---    | ---                    |
| D Point to tunnel                        | H54         | 4.9    | ---    | 4.8    | ---    | ---                    |
| H Point to accelerator floor point       | L53         | 34.1   | 34.0   | 33.9   |        |                        |
| H Point travel                           | L17         | 4.0    |        |        |        |                        |
| H Point rise                             | H58         | .5     |        |        |        |                        |

# AMA Specifications – Passenger Car

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## REAR COMPARTMENT DIMENSIONS



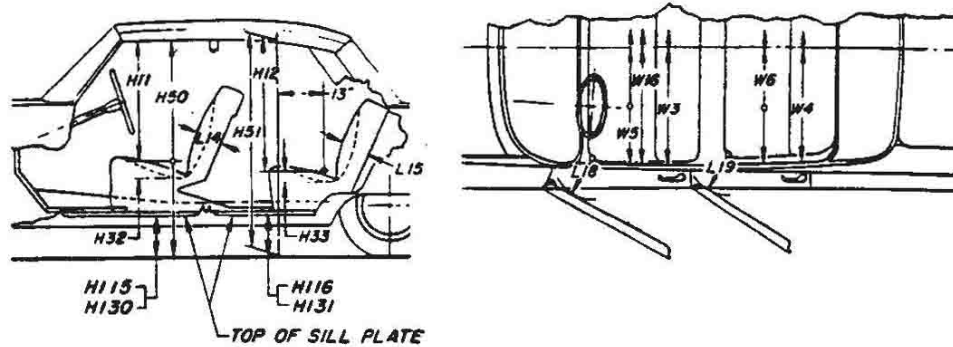
| MODEL<br>5-6-7-900                   | Ref.<br>No. | Sedans |        | Coupes |        | Convertibles<br>Bucket |
|--------------------------------------|-------------|--------|--------|--------|--------|------------------------|
|                                      |             | Bench  | Bucket | Bench  | Bucket |                        |
| H Point couple distance              | L50         | 30.9   | 31.4   | 28.5   | 27.7   | 28.8                   |
| H Point to body zero line - rear     | H71         | NA     |        |        |        |                        |
| Effective head room                  | H63         | 36.6   | 36.8   | 36.6   | 37.2   | 37.8                   |
| Headlining to roof height            | H38         | .6     | .6     | ---    | .1     | ---                    |
| Minimum effective leg room           | L51         | 33.6   | 33.5   | 31.1   | 31.1   | 31.4                   |
| H Point to heel point                | H31         | 10.0   |        | 8.7    | 8.6    | 8.7                    |
| Depressed floor covering thickness   | H68         | .4     | .2     | .4     | .2     |                        |
| Minimum knee room                    | L48         | 2.3    | 2.6    | .9     | ---    |                        |
| Rear compartment room                | L3          | 25.4   |        | 23.4   | 22.4   | 23.9                   |
| Back angle                           | L41         | 27°    | 21°    | 19°    | 22°    | 19°                    |
| Hip angle                            | L43         | 83°    | 77°    | 67°    | 70°    | 68°                    |
| Knee angle                           | L45         | 84°    | 83°    | 73°    | 73°    | 75°                    |
| Foot angle                           | L47         | 117°   | 116°   | 113°   | 109°   | 112°                   |
| D Point differential, side to center | H66         | .4     | .2     | .3     | .1     | .3                     |
| D Point to tunnel                    | H55         | 3.9    |        | 2.6    | 2.3    | 2.4                    |

# AMA Specifications – Passenger Car

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MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED(•) \_\_\_\_\_

## SEAT AND ENTRANCE DIMENSIONS



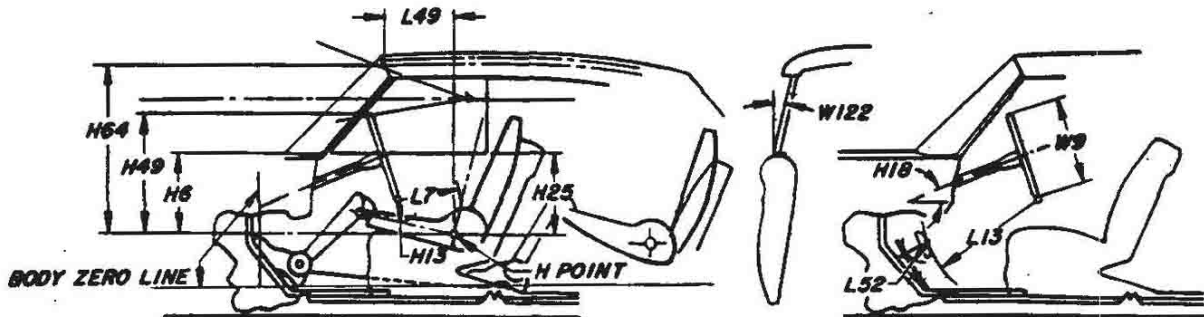
| MODELS<br>5-6-7-900                     | Ref.<br>No. | Sedans |        | Coupes |        | Convertibles<br>Bucket |
|-----------------------------------------|-------------|--------|--------|--------|--------|------------------------|
|                                         |             | Bench  | Bucket | Bench  | Bucket |                        |
| Shoulder room - front                   | W3          | 53.9   |        |        |        |                        |
| Hip room - front                        | W5          | 58.2   |        |        |        |                        |
| Seat width - front                      | W16         | 50.7   | 53.1   | 50.7   | 53.2   |                        |
| Upper body opening<br>to ground - front | H50         | 46.0   | 45.9   | 45.9   |        |                        |
| Entrance height - front                 | H11         | 29.0   | 28.7   | 28.8   | 28.7   | 27.9                   |
| Step height - front<br>(design load)    | H115        | 12.7   |        |        |        |                        |
| Step height - front<br>(curb load)      | H130        | 14.3   |        |        |        |                        |
| Entrance foot<br>clearance - front      | L18         | 13.8   | 13.2   | 13.2   |        | 13.0                   |
| Seat cushion<br>deflection - front      | H32         | 3.7    | 3.5    | 3.7    | 3.5    | 4.0                    |
| Seat back<br>thickness - front          | L14         | 6.0    | 6.4    | 6.0    | 6.5    |                        |
| Shoulder room - rear                    | W4          | 53.6   |        | 52.0   |        | 43.9                   |
| Hip room - rear                         | W6          | 56.7   | 57.6   | 56.7   | 56.6   | 47.2                   |
| Upper body opening<br>to ground - rear  | H51         | 45.8   |        | ---    | ---    | ---                    |
| Entrance height - rear                  | H12         | 29.0   | 29.3   | ---    | ---    | ---                    |
| Step height - rear<br>(design load)     | H116        | 12.7   |        |        |        |                        |
| Step height - rear<br>(curb load)       | H131        | 14.2   |        |        |        |                        |
| Entrance foot<br>clearance - rear       | L19         | 11.0   |        | 9.2    |        | 9.4                    |
| Seat cushion<br>deflection - rear       | H33         | 3.2    | 3.4    | 3.9    | 4.6    | 4.0                    |
| Seat back<br>thickness - rear           | L15         | 5.7    |        |        | 6.2    |                        |

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## VISION AND CONTROL DIMENSIONS



| MODEL<br>5-6-7-900                            | Ref.<br>No. | Sedans |        | Coupes |        | Convertibles |
|-----------------------------------------------|-------------|--------|--------|--------|--------|--------------|
|                                               |             | Bench  | Bucket | Bench  | Bucket | Bucket       |
| H Point to windshield<br>bottom DLO           | H8          | 18.3   | 18.1   | 18.3   | 18.1   |              |
| H Point to windshield<br>upper DLO            | H64         | 30.6   | 30.4   | 30.6   | 30.4   | 30.3         |
| H Point to windshield<br>upper DLO            | L49         | 12.3   | 12.1   | 12.0   |        |              |
| Belt height -<br>front                        | H25         | 16.8   | 16.6   | 16.7   | 16.6   |              |
| Steering wheel center<br>to centerline of car | W7          |        |        | 14.0   |        |              |
| Steering wheel maximum<br>outside diameter    | W9          |        |        | 16.0   |        |              |
| Steering column<br>angle - horizontal         | H18         |        |        | 20°    |        |              |
| H Point to top<br>of steering wheel           | H49         | 22.7   | 22.4   | 22.6   | 22.4   |              |
| Steering wheel<br>torso clearance             | L7          | 12.2   | 12.0   | 12.0   | 11.9   |              |
| Steering wheel<br>thigh clearance             | H13         | 3.2    | 2.9    | 3.1    | 3.0    |              |
| Brake pedal<br>knee clearance                 | L13         |        |        | 24.0   |        |              |
| Brake pedal to<br>accelerator                 | L52         |        |        | 2.9    |        |              |
| Tumble-home                                   | W122        |        |        | 14°    |        |              |

# AMA Specifications – Passenger Car

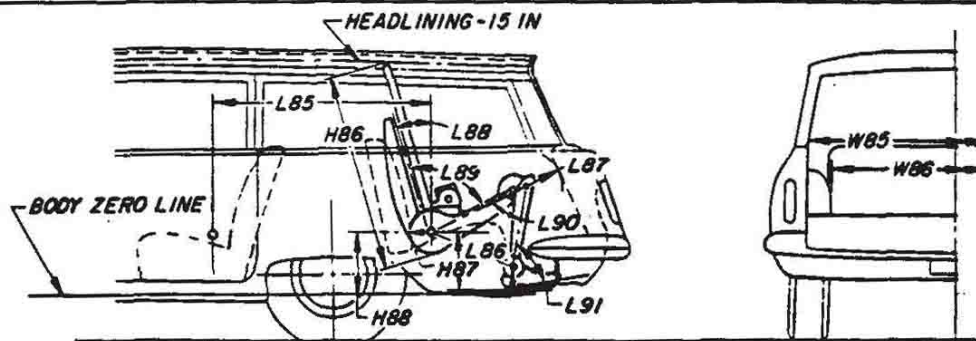
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MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED(a) \_\_\_\_\_

## LUGGAGE COMPARTMENT

| MODEL                                      | Ref. No. | SEDANS                             | COUPES | CONVERTIBLES |
|--------------------------------------------|----------|------------------------------------|--------|--------------|
| 5-6-7-900                                  |          |                                    |        |              |
| Usable luggage capacity (See instructions) |          |                                    | 6.6    |              |
| Liftover height                            | H195     |                                    | 28.6   |              |
| Position of spare tire storage             |          | Horizontal, Engine Compartment (a) |        |              |
| Method of holding lid open                 |          | Torsion Rod Counter-balanced       |        |              |

## THIRD SEAT DIMENSIONS



| MODEL                                  | Ref. No. |      |
|----------------------------------------|----------|------|
| Seat facing direction                  |          |      |
| Shoulder room                          | W85      |      |
| Hip room                               | W86      |      |
| H Point couple distance                | L85      |      |
| H Point to body zero line - third seat | H88      |      |
| Effective head room                    | H86      | NONE |
| Effective leg room                     | L86      |      |
| H Point to heel point                  | H87      |      |
| Knee room                              | L87      |      |
| Back angle                             | L88      |      |
| Hip angle                              | L89      |      |
| Knee angle                             | L90      |      |
| Foot angle                             | L91      |      |

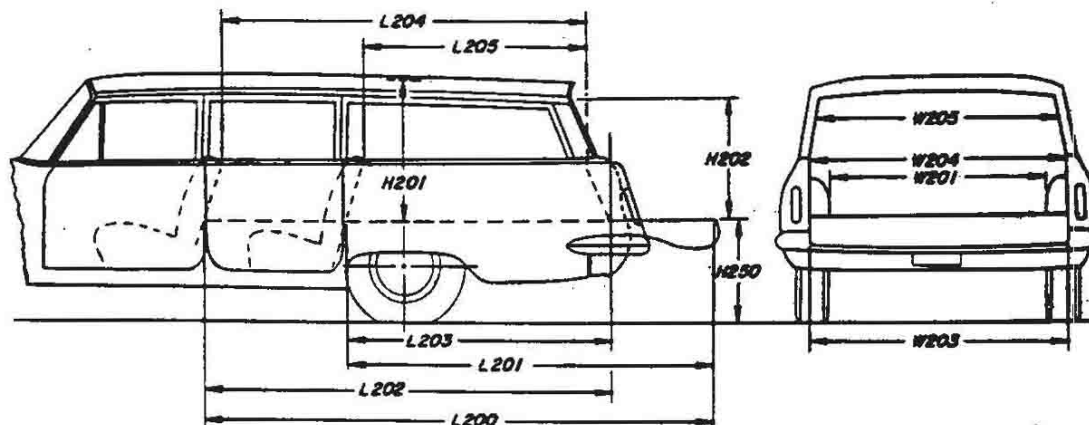
(a) In front compartment when air conditioning is used

# AMA Specifications—Passenger Car

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MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED (a)

## STATION WAGON—CARGO SPACE DIMENSIONS



| MODEL                                                                                                       | Ref. No. |      |
|-------------------------------------------------------------------------------------------------------------|----------|------|
| Floor length from back of front seat at floor level to end of lowered tail gate or floor                    | L200     |      |
| Floor length from back of second seat at floor level to end of lowered tail gate or floor                   | L201     |      |
| Floor length from back of front seat at floor level to inside of closed tail gate                           | L202     |      |
| Floor length from back of second seat at floor level to inside of closed tail gate                          | L203     |      |
| Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt                 | L204     |      |
| Minimum horizontal distance from top rear of second seat back to inside of tail gate at belt                | L205     |      |
| Maximum width of cargo space at floor - specify location                                                    | W200     |      |
| Minimum distance between wheel houses at floor level                                                        | W201     | NONE |
| Rear end opening width at floor                                                                             | W203     |      |
| Rear end opening width at belt                                                                              | W204     |      |
| Maximum width of rear opening above belt                                                                    | W205     |      |
| Maximum height - floor covering to headlining at centerline of rear axle                                    | H201     |      |
| Maximum height of rear opening - tail and lift gates open                                                   | H202     |      |
| Platform height from ground to top of tail gate floor covering at rear most edge of tail gate - curb weight | H250     |      |
| Rear end closure (e.g., one piece door, hinged left - sliding glass, drop tail gate)                        |          |      |
| Cargo volume index (cu. ft.)<br>W4 x L204 x H201                                                            |          |      |

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|             |           |        |            |      |             |              |             |
|-------------|-----------|--------|------------|------|-------------|--------------|-------------|
| MAKE OF CAR | CORVAIR   |        | MODEL YEAR | 1964 | DATE ISSUED | 9-23-63      | REVISED (e) |
| MODEL       | 5-6-7-900 | SEDANS | COUPES     |      |             | CONVERTIBLES |             |
|             |           |        | 527        | 627- | 927         |              |             |

## BODY—MISCELLANEOUS INFORMATION

|                                                                            |             |                                                                            |        |                                        |        |
|----------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------|--------|----------------------------------------|--------|
| Drs. hinged<br>(front, rear)                                               | Front doors | Front                                                                      |        |                                        |        |
|                                                                            | Rear doors  | Front                                                                      |        |                                        |        |
| Type of finish (lacquer, enamel, other)                                    |             | Acrylic Lacquer                                                            |        |                                        |        |
| Hood counterbalanced (yes, no)                                             |             | No                                                                         |        |                                        |        |
| Hood release control (internal, external)                                  |             | External                                                                   |        |                                        |        |
| Vehicle (Serial) No. Location                                              |             | Front surface of left body center pillar                                   |        |                                        |        |
| Engine No. Location                                                        |             | Top rear surface, left half of crankcase                                   |        |                                        |        |
| Theft protection - type                                                    |             | Shielded ignition lock terminals, key removable in "Lock" or "On" position |        |                                        |        |
| Vent window control method<br>(crank, friction pivot)                      | Front       | Friction pivot                                                             |        |                                        |        |
|                                                                            | Rear        | None                                                                       |        |                                        |        |
| Seat cushion type                                                          | Front       | Formed wire and foam pad                                                   |        |                                        |        |
|                                                                            | Rear        | Formed wire and cotton - Jute (#)                                          |        |                                        |        |
|                                                                            | 3rd seat    | None                                                                       |        |                                        |        |
| Seat back type                                                             | Front       | Formed wire and cotton - rubber                                            |        |                                        |        |
|                                                                            | Rear        | Formed wire and cotton - foam pad                                          |        |                                        |        |
|                                                                            | 3rd seat    | None                                                                       |        |                                        |        |
| Windshield glass type (i.e., single curved - laminated plate)              |             | Single, curved                                                             |        |                                        |        |
| Backlight glass type (i.e., compound curved - tempered plate, three piece) |             | One piece, curved                                                          |        | Convertible is flexible plastic - flat |        |
| Side glass type (i.e., curved - tempered plate)                            |             | Flat                                                                       |        |                                        |        |
| Side glass exposed surface area                                            |             | 1092.7                                                                     | 1015.7 | 1027.2                                 | 1023.5 |
| Windshield glass exposed surface area                                      |             | 1122.8                                                                     |        |                                        |        |
| Backlight glass exposed surface area                                       |             | 1104.2                                                                     | 1069.2 |                                        | 726.6  |
| Total glass exposed surface area                                           |             | 3381.7                                                                     | 3207.7 | 3219.2                                 | 2872.9 |

## BODY—CONVENIENCE EQUIPMENT (Indicate whether standard, optional or NA on each series)

|                                                    |                       |                                     |  |  |  |  |  |
|----------------------------------------------------|-----------------------|-------------------------------------|--|--|--|--|--|
| Power windows                                      | Side Windows          | NA                                  |  |  |  |  |  |
|                                                    | Vent Windows          | NA                                  |  |  |  |  |  |
|                                                    | Backlight or tailgate | NA                                  |  |  |  |  |  |
| Power seats (specify type as well as availability) |                       | NA                                  |  |  |  |  |  |
| Reclining front seat back                          |                       | NA                                  |  |  |  |  |  |
| Front seat headrest                                |                       | NA                                  |  |  |  |  |  |
| Radios (specify type as well as availability)      |                       | Manual, Push Button, AM-FM Optional |  |  |  |  |  |
| Rear seat speaker                                  |                       | Optional for sedans and coupes      |  |  |  |  |  |
| Power Antenna                                      |                       | NA                                  |  |  |  |  |  |
| Clock                                              |                       | Optional                            |  |  |  |  |  |
| Air Conditioner (specify type and availability)    |                       | Recirculating, Optional             |  |  |  |  |  |

(a) Foam pad on 969.

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## WEIGHTS

Form Rev. 5-63

## DIMENSION DEFINITIONS

W3 SHOULDER ROOM - FRONT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.

W4 SHOULDER ROOM - REAR. Measured in the same manner as W3.

W5 HIP ROOM - FRONT. The lateral dimension through H Point to trimmed surfaces.

W6 HIP ROOM - REAR. Measured in the same manner as W5.

W7 STEERING WHEEL CENTER TO CENTERLINE OF CAR. Measured horizontally from steering wheel center to centerline of car. The point at steering wheel center is located in the surface plane of wheel.

W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.

W16 SEAT WIDTH - FRONT. The maximum trimmed width of front seat cushion.

W85 SHOULDER ROOM - THIRD SEAT. Measured in the same manner as W3.

W86 HIP ROOM - THIRD SEAT. Measured in the same manner as W5.

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

W102 TREAD - REAR. Measured at centerline of tires at ground.

W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions.

W106 FRONT FENDER OVERALL WIDTH. Measured at centerline of front wheels, excluding moldings.

W107 REAR FENDER OVERALL WIDTH. Measured at centerline of rear wheels, excluding moldings.

W116 MAXIMUM OVERALL BODY WIDTH. Measured across body, excluding hardware and applied moldings, but including fenders when integral with body.

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

W120 MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN. Measured with front doors in maximum hold-open position.

W121 MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN. Measured in same manner as W120.

W122 TUMBLE-HOME. The angle from vertical to the front door glass outer surface or the chord of a curved door glass, measured at the front H Point station.

L3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at a height tangent to the top of rear seat cushion.

L7 STEERING WHEEL TORSO CLEARANCE. The minimum distance from the back edge of steering wheel, in straight-ahead position, to the Torso Line.

L13 BRAKE PEDAL KNEE CLEARANCE. The minimum dimension from the lower edge of the steering wheel to the brake pedal face centerline.

L14 SEAT BACK THICKNESS - FRONT. The maximum thickness of the seat back, excluding bolsters.

L15 SEAT BACK THICKNESS - REAR. Measured in the same manner as L14.

L17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

L18 ENTRANCE FOOT CLEARANCE - FRONT. The minimum horizontal dimension between seat and normal line of door or pillar at a height between the sill plate bead and 4.0 inches above the bead. Door should be in the maximum hold-open position.

L19 ENTRANCE FOOT CLEARANCE - REAR. Measured in the same manner as L18 on four-door models. On two-door styles, the minimum dimension between rear corner of front seat, with front seat back tilted forward, and trimmed lock pillar, built-in quarter armrest panel, or rear seat cushion at a height between the sill plate bead and 4.0 inches above the bead.

L30 BODY 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.

L31 H POINT TO BODY ZERO LINE - FRONT. Horizontal dimension.

L34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. Measured with the right foot on accelerator pedal.

L40 BACK ANGLE - FRONT. The angle between a vertical line through the H Point and the Torso Line.

L41 BACK ANGLE - REAR. Measured in the same manner as L40.

L42 HIP ANGLE - FRONT. The angle between Torso Line and a line extending from knee pivot center to H Point.

L43 HIP ANGLE - REAR. Measured in the same manner as L42.

L44 KNEE ANGLE - FRONT. The angle between a line from H Point to knee pivot center and a line from the knee pivot center to the ankle pivot center.

L45 KNEE ANGLE - REAR. Measured in the same manner as L44.

L46 FOOT ANGLE - FRONT. The angle between a line extended from the knee pivot center through the ankle pivot center and a line tangent to the sole and heel of manikin bare foot.

L47 FOOT ANGLE - REAR. Measured in the same manner as L46.

L48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the knee pivot center to the back of front seat back.

L49 H POINT TO WINDSHIELD UPPER EDGE. The horizontal dimension from H Point to the point of tangency of horizontal line of vision (described in dimension H64) with body upper structure.

## DIMENSION DEFINITIONS (cont.)

**L50 H POINT COUPLE DISTANCE.** The horizontal dimension from the front seat H Point to the rear seat H Point.

**L51 MINIMUM EFFECTIVE LEG ROOM – REAR.** Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. Measured with the foot positioned to nearest interference between seat structure and toe, instep or lower leg.

**L52 BRAKE PEDAL TO ACCELERATOR.** The minimum dimension from center of brake pedal face to accelerator. Measured in the side view.

**L53 H POINT TO ACCELERATOR FLOOR POINT.** The horizontal dimension from intersection of accelerator and depressed floor covering to the H Point.

**L85 H POINT COUPLE DISTANCE – THIRD SEAT.** The horizontal dimension from the second seat H Point to the third seat H Point.

**L86 EFFECTIVE LEG ROOM – THIRD SEAT.** Measured in the same manner as L51. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.

**L87 KNEE ROOM – THIRD SEAT.** Measured in the same manner as L48. With rear-facing third seat, dimension is measured to rear closure.

**L88 BACK ANGLE – THIRD SEAT.** Measured in the same manner as L40.

**L89 HIP ANGLE – THIRD SEAT.** Measured in the same manner as L42.

**L90 KNEE ANGLE – THIRD SEAT.** Measured in the same manner as L44.

**L91 FOOT ANGLE – THIRD SEAT.** Measured in the same manner as L46.

**L101 WHEELBASE.**

**L102 TIRE SIZE.**

**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 theoretical intersection of extended windshield glass plane and normal cowl surface to the theoretical intersection of extended back window glass plane and normal deck surface; or in the case of a Fastback roof or Station Wagon, to back glass lower reveal molding, or rubber when molding is not used.

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

**L128 HOOD LENGTH AT CAR CENTERLINE.** The horizontal dimension from the foremost point on sheet metal hood surface, excluding series identification or ornamentation, to the theoretical intersection of extended windshield glass plane and normal cowl surface.

**L129 DECK LENGTH AT CAR CENTERLINE.** The horizontal dimension from the rearmost point of the body sheet metal (visible above bumper), excluding series identification or ornamentation, to the theoretical intersection of extended back window glass plane and normal deck surface.

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

**H6 H POINT TO WINDSHIELD BOTTOM DLO.** Vertical dimension.

**H11 ENTRANCE HEIGHT – FRONT.** The vertical dimension from H Point to upper trimmed body opening.

**H12 ENTRANCE HEIGHT – REAR.** The vertical dimension from H Point to the upper trimmed body opening at a section 13.0 inches forward of the H Point.

**H13 STEERING WHEEL THIGH CLEARANCE.** The minimum dimension from the bottom of steering wheel, in straight-ahead position, to centerline of thigh.

**H18 STEERING COLUMN ANGLE – HORIZONTAL.** The angle the centerline of steering column makes with the horizontal.

**H25 BELT HEIGHT – FRONT.** The vertical dimension from H Point to bottom of side window DLO.

**H30 H POINT TO HEEL POINT – FRONT.** The vertical dimension from the H Point to the manikin accelerator heel point on the depressed floor covering.

**H31 H POINT TO HEEL POINT – REAR.** The vertical dimension from the H Point to the manikin heel point on the depressed floor covering.

**H32 SEAT CUSHION DEFLECTION – FRONT.** The vertical dimension from a point on the undepressed seat cushion to the depressed seat cushion. Measured at the H Point station.

**H33 SEAT CUSHION DEFLECTION – REAR.** Measured in the same manner as H32.

**H37 HEADLINING TO ROOF HEIGHT – FRONT.** The dimension from the intersection of the headlining and the extended effective head room line to the roof panel. Measured perpendicularly to the roof panel.

**H38 HEADLINING TO ROOF HEIGHT – REAR.** Measured in the same manner as H37.

**H49 H POINT TO TOP OF STEERING WHEEL.** The vertical dimension from the H Point to top of steering wheel, in straight-ahead position.

**H50 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.

**H51 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.

## DIMENSION DEFINITIONS (cont.)

**H54 D POINT TO TUNNEL - FRONT.** The vertical dimension from the D Point, at car centerline, to top of tunnel.

**H55 D POINT TO TUNNEL - REAR.** Measured same manner as H54.

**H58 H POINT RISE.** The vertical dimension between the H Point in the most forward and rearward seat position.

**H61 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.

**H63 EFFECTIVE HEAD ROOM - REAR.** Measured same as H61.

**H64 H POINT TO WINDSHIELD UPPER DLO.** Vertical dimension from H Point to highest horizontal line of vision through windshield at 15 inch section.

**H65 D POINT DIFFERENTIAL, SIDE TO CENTER - FRONT.** Vertical dimension from side occupant to center occupant D Point.

**H66 D POINT DIFFERENTIAL, SIDE TO CENTER - REAR.** Measured in the same manner as H65.

**H67 DEPRESSED FLOOR COVERING THICKNESS - FRONT.** The vertical dimension from manikin accelerator heel point normally to underbody sheet metal immediately below heel point.

**H68 DEPRESSED FLOOR COVERING THICKNESS - REAR.** Measured same as H67.

**H70 H POINT TO BODY ZERO LINE - FRONT.** Vertical dimension.

**H71 H POINT TO BODY ZERO LINE - REAR.** Vertical dimension.

**H86 EFFECTIVE HEAD ROOM - THIRD SEAT.** Measured in the same manner as H61.

**H87 H POINT TO HEEL POINT - THIRD SEAT.** Measured in the same manner as H31.

**H88 H POINT TO BODY ZERO LINE - THIRD SEAT.** Vertical dimension.

**H101 OVERALL HEIGHT.** Measured with full design load.

**H102 FRONT BUMPER TO GROUND.** Minimum dimension.

**H104 REAR BUMPER TO GROUND.** Minimum dimension.

**H106 ANGLE OF APPROACH.** The angle between the 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 interfering component, excluding license plate.

**H107 ANGLE OF DEPARTURE.** The angle between the 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 interfering component, excluding license plate.

**H111 ROCKER PANEL TO GROUND - REAR.** The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured at front of rear wheel opening.

**H112 ROCKER PANEL TO GROUND - FRONT.** The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured at foremost point of rocker panel.

**H114 HOOD AT REAR TO GROUND.** Measured from hood opening line on shroud, exclusive of moldings.

**H115 STEP HEIGHT - FRONT (DESIGN LOAD).** The vertical dimension from top of sill plate bead, at C/L of front door sill plate, to ground.

**H116 STEP HEIGHT - REAR (DESIGN LOAD).** Measured in same manner as dimension H115.

**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.

**H130 STEP HEIGHT - FRONT (CURB LOAD).** The vertical dimension from top of sill plate, at C/L of front door sill plate, to ground.

**H131 STEP HEIGHT - REAR (CURB LOAD).** Measured same as H130.

**H132 BOTTOM OF DOOR TO GROUND, OPEN - FRONT.** Measured from bottom outside corner of door with door in maximum hold-open position.

**H133 BOTTOM OF DOOR TO GROUND, CLOSED - FRONT.** Same point on door as H132 dimension, with door closed.

**H134 BOTTOM OF DOOR TO GROUND, OPEN - REAR.** Measured in same manner as H132.

**H135 BOTTOM OF DOOR TO GROUND, CLOSED - REAR.** Measured in same manner as H133.

**H136 BODY ZERO TO GROUND - FRONT.** A vertical dimension measured at front wheel centerline.

**H137 BODY ZERO TO GROUND - REAR.** A vertical dimension measured at rear wheel centerline.

**H147 RAMP BREAKOVER ANGLE.** 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.

**H148 FRONT SUSPENSION TO GROUND.** Minimum clearance of lower control arm inner shaft or lowest point on the car centerline.

**H149 OIL PAN TO GROUND.** Minimum clearance measured from sheet metal or drain plug.

**H150 FLYWHEEL/CONVERTER HOUSING AND TRANSMISSION ASSEMBLY TO GROUND.** Minimum clearance.

**H151 FRAME STRUCTURE TO GROUND.** Minimum clearance measured approximately midway between front and rear axles. In this measurement, cross bars and X-members shall be considered part of frame.

**H152 EXHAUST SYSTEM TO GROUND.** Minimum clearance. See location.

**H153 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND.** Minimum clearance.

**H154 FUEL TANK TO GROUND.** Minimum clearance measured from sheet metal or drain plug, but excluding supports or straps.

**H155 SPARE TIRE WELL TO GROUND.** Minimum clearance.

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

**H195 LIFTOVER HEIGHT.** Vertical dimension from luggage compartment lower opening to ground.

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