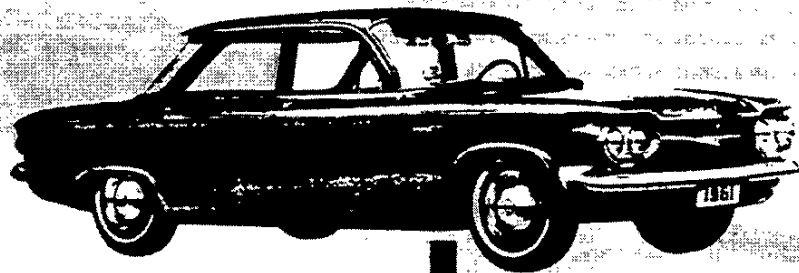


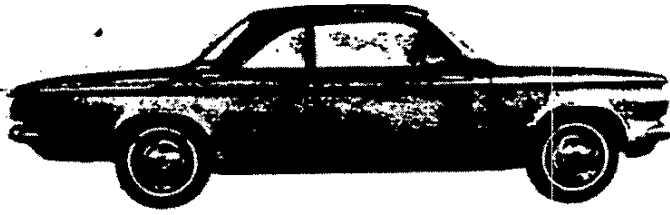
# CORVAIR GENERAL



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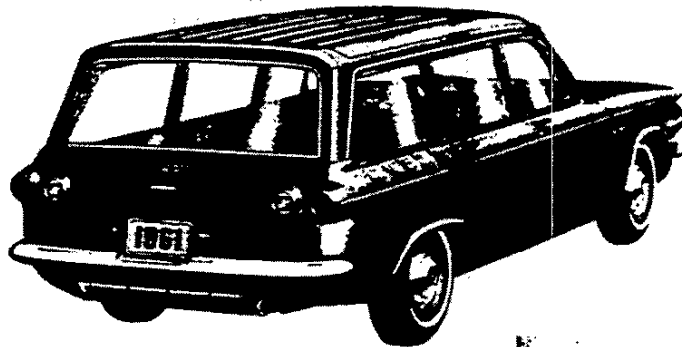
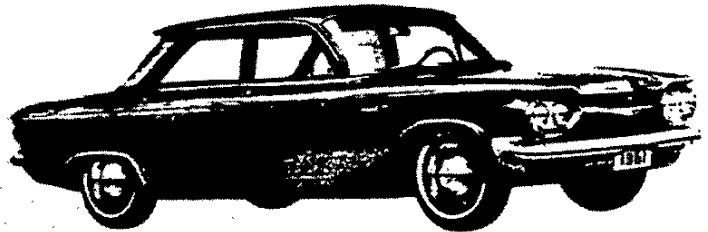
FOR COMPLETE SPECIFICATIONS  
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IFICATIONS.

## MODEL IDENTIFICATION



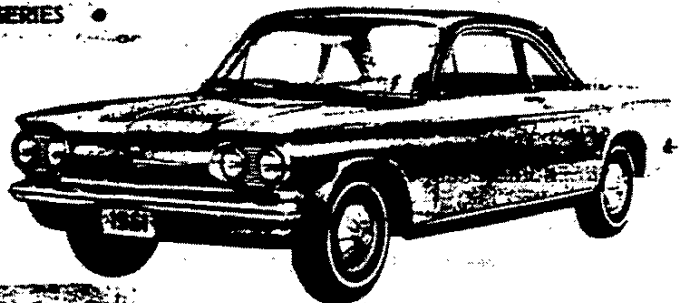
MODEL 527 2-DOOR CLUB COUPE, 5-PASSENGER  
MODEL 535 4-DOOR STATION WAGON, 6-PASSENGER  
MODEL 569 4-DOOR SEDAN, 6-PASSENGER

MODEL 727 2-DOOR CLUB COUPE, 5-PASSENGER  
MODEL 735 4-DOOR STATION WAGON, 6-PASSENGER  
MODEL 769 4-DOOR SEDAN, 6-PASSENGER

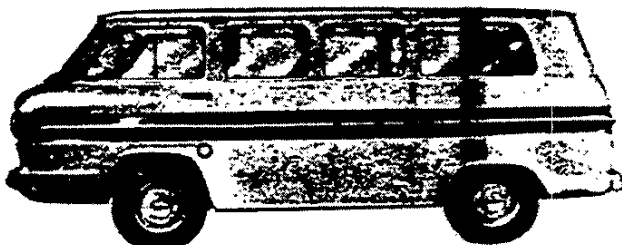


900 SERIES

MODEL 927 2-DOOR CLUB COUPE, 4-PASSENGER  
MODEL 969 4-DOOR SEDAN, 6-PASSENGER



1000 SERIES



MODEL R1206 6-DOOR SPORTS WAGON, 6-PASSENGER

October 1960 • Revised February 1961  
2-CORVAIR GENERAL

1961 CHEVROLET CORVAIR

# SERIAL NUMBERS AND IDENTIFICATION

## VEHICLE SERIAL NUMBER

Example:

Model Year (1961)	Model	Assembly Plant (Willow Run)	Unit Number (25th unit)
1	0569	W	100025

Thus: The 25th model built at Willow Run would be serial number 10569W100025.



Starting unit number ----- 100001 and up at each assembly plant.

Location ----- Stamped tag located on left body center pillar.

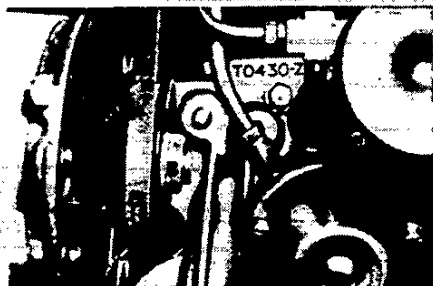
### ASSEMBLY PLANTS

- O - Oakland
- K - Kansas City
- W - Willow Run

## ENGINE SERIAL NUMBER

Example: T0205Y

Source Designation	Production* Month & Date	Type Designation
T - Tonawanda	0205	YC
YL -----	Air Cond. (ex. wagons)	
YM -----	Air Cond., High Perf. (ex. wagons)	
ZD -----	Air Cond., Powerglide (ex. wagons)	
YC -----	3 and 4-spd. trans. (ex. wagons)	
YD -----	High Perf. (ex. wagons)	
YF -----	3 and 4-spd. (wagons)	
YJ -----	High Perf. (wagons)	
Z -----	Powerglide (ex. wagons)	
ZB -----	Powerglide (wagons)	



Location ----- Stamped on top rear surface, left half of crankcase.

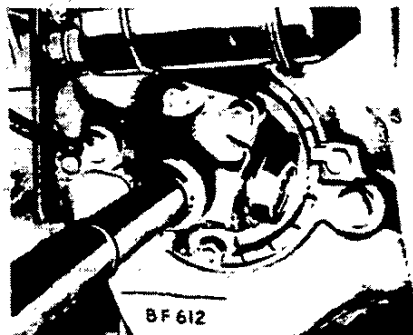
## REAR AXLE IDENTIFICATION

Example: BT 0102

Source and Type Designation	Production* Month Day
BT - (Buffalo)	0102

BQ -----	3-speed, (ex. wagon)	3.27:1
BC -----	Powerglide, (ex. wagon)	3.27:1
BF -----	3-speed, (wagon)	3.55:1
BJ -----	Powerglide, (wagon)	3.55:1

\* - Month: 01-January; 02-2nd day of January.



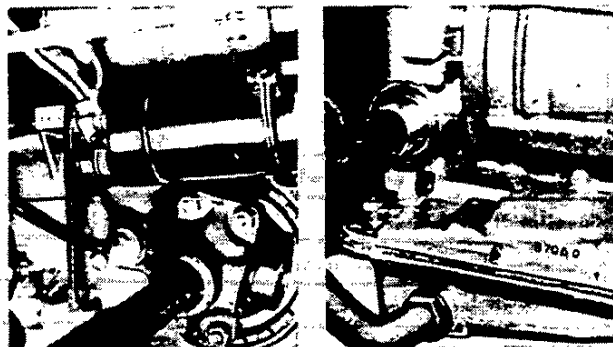
Location ----- Number stamped on lower left side of casting.

## TRANSMISSION IDENTIFICATION

Example: B306D

Source Designation	Production* Month & Day	Shift
B-Toledo (P.G.)	306	D (day)
S-Saginaw (3-spd.)		

\* - Month: 3-March; 06-6th day of March.



Location:  
 3 and 4-Speed ----- Stamped on side of upper left differential mounting boss.  
 Powerglide ----- Stamped on right hand side of casting between forward and middle pan mounting bosses.

## REGULAR EQUIPMENT-EXTERIOR

ITEM		MODELS		
Bright Metal Trim	Anodized Aluminum	Dual headlight frames	All	
		Dual parking and direction signal light frames		
		Dual stop, tail, and directional signal light frames		
		Dual back-up light bezels and cover plate	500-700	
		Exhaust grille panel	All	
	Chrome Plated Metal	Front bumper		
		Front emblem		
		Push-button door handles		
		Key locks on front doors		
		Front fender emblem and nameplates		
		Deck lid script and emblem (Corvair)		
		Rear bumper		
		Rear quarter nameplate (Lakewood)	535-735	
	Stainless Steel	Luggage compartment lock	All	
			Hub caps	500-700
			Wheel disks	900
		Moldings	Windshield reveal	700-900
			Drip cap	
			Rear window reveal	735
			Liftgate reveal	
			Body side	700
			Front compartment lid	
			Engine compartment lid	
Rear quarter window upper frame			900	
Door upper frame				
Rocker panel				
Simulated air scoop				
Ventipane frame	All			
Dual single speed electric wipers				
Dual cowl air inlet				
Gasoline filler door (left front fender)				
Rear license lamp				
Deck lid air intake louvers		All except 535-735		
Single horn		500		
Dual horn		700-900		
Rear quarter air intake louvers		535-735		
Back-up lamps		900		

## GREENBRIER REGULAR EQUIPMENT - EXTERIOR

		MODEL
<b>Bright Metal Trims</b>	<b>Anodized Aluminum</b>	Dual Headlamp Frames
		Dual Parking and Directional Signal Light Frames
		Front Air Inlet Grille
	<b>Chrome Plated</b>	Front Air Inlet Grille Ornament
		Push-Button Door Handles
		Key Locks, All Doors
<b>Stainless Steel</b>	Front Door Nameplates (Greenbrier)	
	Windshield Wiper Arms	
Rubber Windshield and Rear Door Reveal Moldings		
Dual Single-Speed Electric Windshield Wipers		
Front, Double Right Hand Side, and Double Rear Doors		R1206
Air Intake Louvers in Rear Outer Side Panels		
Gasoline Filler Door (Rear of Left Front Fender Wheel Opening)		
Single Tail, Stop, and Directional Signal Lights		
Dual Headlamp, Parking, and Directional Signal Lights		
Dual Rear License Lamps		
Double Right Hand Side and Double Rear Door Rubber Stops		
Single Horn		
<b>Painted Areas</b>	Front and Rear Bumpers	
	Hub Caps	
	Ventipane Frames	
Outside rear view mirror		

# REGULAR EQUIPMENT-INTERIOR

ITEM		MODELS	
Instrument Panel	Dual directional signals	All	
	Fuel indicator		
	Speedometer		
	High beam indicator		
	Bright Control Knobs		900
	Light		
	Windshield wiper		500-700
	Cigarette lighter		
	Cigarette lighter cover plate		
	Ignition switch (4-positions)		
	Oil and generator warning lights	All	
	Anodized aluminum trim plate		
	Bright trim plate molding		
	Ash tray	All	
Radio speaker grille			
Dual vent control knobs			
Garnish molding			
Glove Box	Painted door	735	
	Anodized aluminum trim plate	500	
	Nameplate (Corvair 700 or Monza)	700-900	
	Bright trim plate molding	900	
	Glove box lamp		
Dual spoke steering wheel		All	
Horn button			
Inside rear view mirror (painted 500-700; bright 900)			
Friction type front ventpanels			
Door locking buttons, rear (except 527-727-927)			
Door locking control handles, front			
Painted interior trim moldings			
Dome lamp switch, in main light switch			
Headlining (cloth on 500-700, vinyl on 900)			
Folding rear seat			535-735-927-969
Dome lamp (chrome bezel on 900)			All
Half circle horn ring			900
Right hand sunshade			
Front and rear door armrests (bright)			
Front bucket and simulated bucket rear folding seat (vinyl)			
Rear quarter and rear door armrest ash tray			
Anodized aluminum seat end panels			
Coat hooks			
Front door jamb switch, dome lamp		700-900	
Left hand sunshade		All	
Floor Covering	Black rubber	500	
	Vinyl-coated, colored-keyed	700	
	Front luggage compartment, rubber	700-900	
	Carpet	900	
	Textured metal, vinyl coated cargo floor (spotter rubber mat on 735)	535-735	
	Vinyl covered jute wheelhouses	All	
Embossed composition board - sides			

700-700-900 SERIES

1967-1968 CORVAIR

GENERAL MOTORS CORP.

## GREENBRIER REGULAR EQUIPMENT - INTERIOR

	ITEM	MODEL	
Instrument Panel	Dual Directional Signal Lights	R1206	
	Fuel Indicator		
	Speedometer		
	High Beam Indicator		
	Bright Control Knobs		Light
			Windshield Wiper
	Cigarette Lighter Cover Plate		
	Ignition Switch (4-positions)		
	Oil and Generator Warning Lights		
	Anodized Aluminum Trim Plate		
	Odometer		
	Powerglide Selector Cover Plate		
	Ash Tray		
	Dual Vent Control Knobs		
	Choke Control Knob		
Radio Speaker Grille			
Dispatch Box	Painted Door with Key Lock		
Two Full Width Seats			
Dual Spoke Steering Wheel			
Brushed Aluminum Horn Button			
Inside Rear View Mirror			
Friction Type Front Ventipanes			
Front Door Locking Control Handles			
Double Right Hand Side Door Handle and Locking Knob			
Window Regulator Handles			
Painted Interior Trim Moldings and Roof Bows			
Dome Lamp (Operated by Main Switch)			
Painted Interior Body Panels and Inserts			
Woven Cloth Seat Covering with Vinyl Facings			
Textured Vinyl Roof Panel Inserts			
Left Hand Sunshade			
Black Ribbed Rubber Floor Mat			
Spare Wheel and Tire			
Jack			
Combination Jack Handle and Wheel Wrench			



# REGULAR PRODUCTION OPTIONS AND FACTORY OPTIONAL ACCESSORIES

ITEM		NUMBER	MODELS
Radio	Manual	103	All
	Push-Button	104	
Heater, Direct Air		113	
Cover, Wheel Trim		117	500-700
Comfort and Convenience Equipment	Outside Rear View Mirror	120	All
	Windshield Wipers and Washers		
	Back-Up Lights		500-700
	Glove Box Light		
Crankcase Ventilation		242	All
Rear Door Armrest		248	5-769, 5-735
Taxicab Equipment		330	569
Heavy-Duty Battery		345	All
Deluxe Body Equipment	Cigarette Lighter	347	500-700
	Front Armrests		
	Right Hand Sunshade		
Automatic Transmission		360	All
Spare Wheel Lock		384	All except Station Wagons
Tinted Glass		398	All
Instrument Panel Pad		427	
7.00-13-4 ply Whitewall Tires		449	535-735
High Performance Engine		649	All
35 Ampere Generator		650	
Four-Speed Transmission		651	
6.50-13-4 ply Whitewall Tires		661	
Rear Axle - 3.89:1		662	
Folding Rear Seat		664	
Rear Axle - 3.55:1		693	
Air Conditioning		114	5-727, 5-769
Bucket Front Seat (included in Trim Options 704, 744, 746, 768, 784, 797)		—	All except station wagons
			969

ITEM		NUMBER	MODELS
Radio		123	R1206
Gasoline Heater and Defroster		128	
Windshield Washer		130	
Wheel Trim Cover		132	
Direct Air Heater		138	
Rear Seat		269	
Heavy-Duty Battery		345	
2-Speed Windshield Wiper and Washer		355	
Chrome Bumper, Front and Rear		393	
Taxicab Equipment		420	
Custom Equipment	Chrome Plated Front and Rear Bumpers	431	
	Chrome Plated Hub Caps		
	Stainless Steel Windshield Reveal Moldings		
	Rear Door Rod Caps Inserts, Chrome Bezels		
	Vinyl and Nylon Faced Cloth Seats (Foam)		
	2-Tone Instrument Panel		
	Right Hand Sunshade		
	L.H. - R.H. Driver and Rear Passenger Armrests		
	Vinyl Headlining		
	Clear Lighter		
	Amidized Dispatch Box Trim Plate		
	Spare Tire Cover		
	Rear Dome Lamp		
Vinyl Coated Rubber Floor Covering			
Vinyl Trim Pads (Doors and Side Walls)			
Body Side Door Equipment	645		
7.00-14-4 ply Tire, Whitewall	647		
7.00-14-6 ply Tire, Blackwall	648		
35 Ampere Generator	650		
Four-Speed Transmission	652		
Automatic Transmission	667		
7.00-14-6 ply Tire, Whitewall	674		
Heavy-Duty Front Shock Absorber	213		

## DEALER INSTALLED ACCESSORIES

ITEM	MODELS
Alarm, Parking Brake	All
Antenna, Radio	
Armrests, Front and Rear	500-700
Belt, Seat	
Boot, Package Compartment	All
Cap, Gasoline Tank Filler Locking	
Carrier, Roof Top Luggage	5-769, 5-735
Clock, Instrument Panel	
Container, Litter	All
Cover, Front Seat Cushion	
Cover, Luggage Carrier	5-769, 5-735
Cover, Accelerator	All
Cover, Wheel Trim	500-700
Cushion, Air Ride	
Dispenser, Tissue	
Extension, Exhaust Pipe	
Glare Shield, Windshield	
Guard, Front and Rear Bumper	All
Guard, Door Edge	
Guard, Gasoline Tank Filler Door	
Heater, Gasoline	
Heater, Direct Air	

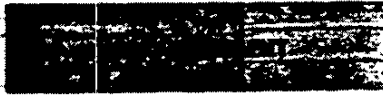
ITEM	MODELS
Horn, High Note	500
Kit, Tool	All
Lamp, Back-Up	500-700
Lamp, Courtesy	All
Lamp, Glove Compartment	500-700
Lamp, Portable Spot	
Lamp, Underhood	All
Lamp, Luggage Compartment	
Lighter, Cigarette	500-700
Mat, Front and Rear Floor	
Mirror, Outside Rear View	All
Mirror, Rear View Prismatic	
Mirror, Visor Vanity	
Molding, Body Sill	500-700
Pad, Ventilated Seat	
Radio, Manual	All
Radio, Push-Button	
Ring, Wheel Trim	500-700
Sunshade, Right Hand	
Washer, Windshield	All
Lock, Spare Wheel	Ex. Wagons

ITEM	MODELS
Armrest, Front Door	
Belt, Seat	
Computer Unit	
Cap, Gasoline Tank Filler Locking	
Carrier, Roof Top Luggage	
Clock, Instrument Panel	
Container, Litter	
Cover, Accelerator Pedal	
Cover, Wheel	
Deflector, Rain	R1206
Guards, Front and Rear Bumper	
Heater, Direct Air	
Heater, Gasoline	
Horn, Vibrator	
Hub Caps, Chrome	
Lamp, Courtesy	
Lamp, Dispatch Box	
Lamp, Portable Spot	

ITEM	MODELS
Lamp, Rear Compartment Dome	
Lamp, Spot	
Lamp, Traffic Hazard	
Lighter, Cigar	
Mirror, Outside Rear View	
Mirror, Inside Rear View	
Netting, Cargo	
Pad, Ventilated Seat	
Radio, Manual	
Reflectors, Rear Reflex	
Screen, Side Door	
Sleeper Unit	
Sunshade, R. H.	
Table, Dining	
Tent and Breezeway Unit	
Tool Kit	
Undersat Drawer	
Washer, Pump-Type Windshield	

# TAXI-CAB EQUIPMENT-RPO 330

MODEL APPLICATION 569



## INTERIOR TRIM

Standard ----- Cloth trim  
Optional ----- Gray vinyl coated fabric  
Sunshade ----- Silver

## FLOORS, FRONT AND REAR

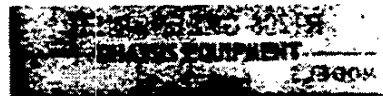
Covering ----- Waterproof asphalt im-  
pregnated paper felt, .125 minimum thickness  
Mats ----- Black rubber (no spatter  
design) .125 minimum thickness

## SEAT CUSHIONS AND BACK RESTS

Construction, front and rear ----- Heavy-duty  
"S" wire springs, reinforced. Fixed type rear seat  
back.

## DOORS, REAR

Armrests ----- Left and right doors



## LUBRICATION FITTINGS

Application ----- Used at  
universal joint trunnion yoke assys

## BATTERY

Type ----- Heavy duty

## SPRINGS, REAR

Part Number ----- 6257159  
Deflection Rate:  
At spring ----- 550 lb/in  
At wheel ----- 192 lb/in

## GREENBRIER TAXI-CAB EQUIPMENT - RPO 420

MODEL APPLICATION R1206

### INTERIOR TRIM

Standard ----- All vinyl, silver

### FLOORS, Front and Rear

Covering ----- Waterproof asphalt impregnated  
paper felt, .125 minimum thickness. (Driver  
compartment)

Mats ----- Charcoal colored vinyl coated rubber  
(Passenger compartment)

SEATS ----- Passenger seat to face forward  
and to be located in the forward position.

### INSTRUMENT PANEL

Warning Lamp

Location ----- Bright metal bracket under  
instrument panel, left of steering column.

Switch ----- Forward door in passenger  
compartment on R. H. side of standard models, and  
by both R. H. and L. H. forward doors when optional  
L. H. doors are used.

Spare Tire Cover ----- Color keyed fabric

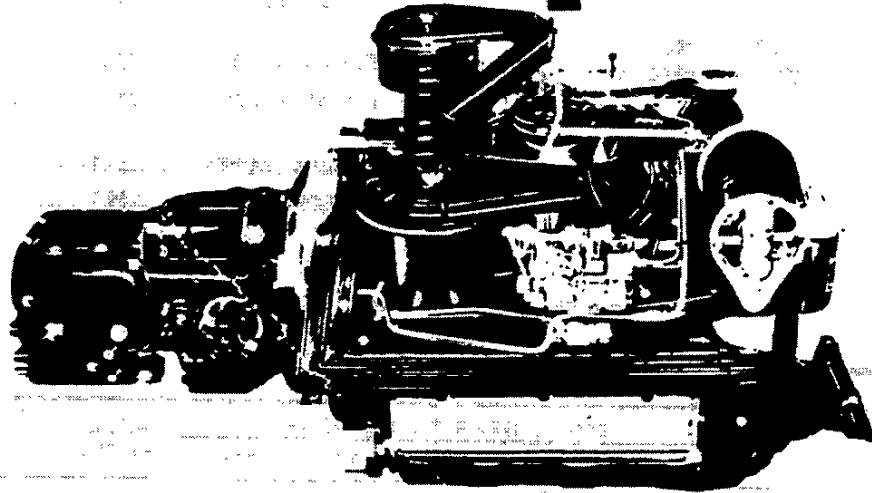
Front Shock Absorbers ----- Heavy duty

Lubrication fittings ----- Used at "U" Joints of  
Propeller shaft

Battery ----- Heavy duty

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

# POWER TRAINS



POWER TEAM COMBINATIONS . . . . .	2
ENGINE . . . . .	3
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TRANSAXLE . . . . .	14

FOR COMPLETE SPECIFICATIONS  
ON GREENBRIER SPORTS WAGON,  
SEE 1961 CHEVROLET TRUCK SPEC-  
IFICATIONS.

# POWER TEAM COMBINATIONS

ENGINE	TRANSMISSION	AXLE RATIO	OPTIONAL RATIOS
145 CU. IN. TURBO-AIR 98 H. P. 6-CYLINDER	3-SPEED	SEDAN & COUPES	3.27:1 ..... 3.55:1 3.89:1
		STATION WAGON	3.55:1 ..... 3.89:1
	4-SPEED	SEDAN & COUPES	3.27:1 ..... 3.55:1 3.89:1
		STATION WAGON	3.55:1 ..... 3.89:1
	POWERGLIDE	SEDAN & COUPES	3.27:1 ..... 3.55:1 3.89:1
		STATION WAGON	3.55:1 ..... 3.89:1
145 CU. IN. SUPER TURBO-AIR 98 H. P. 6-CYLINDER (RPO 649)	3-SPEED	SEDAN & COUPES	3.27:1 ..... 3.55:1 3.89:1
		STATION WAGON	3.55:1 ..... 3.89:1
	4-SPEED	SEDAN & COUPES	3.27:1 ..... 3.55:1 3.89:1
		STATION WAGON	3.55:1 ..... 3.89:1
	POWERGLIDE	SEDAN & COUPES	3.55:1 ..... 3.89:1
		STATION WAGONS	3.55:1 ..... 3.89:1

## MULTIPLICATION FACTORS

### WITH MANUAL TRANSMISSIONS

ENGINE	TRANSMISSION	TOTAL GEAR REDUCTION*					AXLE RATIO	MAXIMUM AXLE TORQUE LOW GEAR - Lb-Ft +
		1st	2nd	3rd	4th	Rev		
80 H <sup>7</sup> 6-C		11.45	6.50	3.27		12.98	3.27	1148
		12.43	7.06	3.55		14.09	3.55	1247
		11.94	7.68	4.71	3.27	11.97	3.27	1198
		12.96	8.34	5.11	3.55	12.78	3.55	1310

### WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION*	AXLE RATIO
Turbo-Air	Powerglide	Drive	15.47:1-3.27:1	3.27:1
		Low & Rev	15.47:1-5.95:1	
		Drive	16.79:1-3.55:1	3.55:1
		Low & Rev	16.79:1-6.46:1	

\* - Axle ratio x transmission ratio.

+ - Gear reduction x maximum net engine torque x

(in direct drive, 0.85 all others).

# 145 CUBIC INCH SIX CYLINDER ENGINE

## GENERAL DATA

Engine		Conventional	Powerglide
Type		Horizontal-opposed OHV	
Piston displacement (Cu.In)		145	
Number of cylinders		6	
Bore and stroke		3.437 x 2.600	
Compression ratio		8.0:1 (a) (b)	
Taxable horsepower (SAE)		27.3	
Idling speed (R.P.M)		500 (c)	
Compression press (PSI) @ cranking speed, engine hot		140	
Dry weight (pounds)	Engine and clutch	316	284
	With transaxle	425	443
Lubrication		Full pressure	
Power plant mounting		Two front and one rear shear type	
Measurements	Width (over air cleaners)	32.37	
	Length (incl clutch hsg & oil filter)	28.55	
	Height (incl air cleaners & oil pan)	20.72	
	Sedans and coupes	17.93	
	Station wagon		

- (a) - On Super Turbo-Air C. R. is 9:1
- (b) - On 900 Models w/Powerglide C.R. is 9:1
- (c) - 600 RPM on Super Turbo-Air 98 H. P. engine

## ADVERTISED MAXIMUM ENGINE PERFORMANCE

Engine		Turbo-Air	Super Turbo-Air
Brake horsepower	Gross	80@4400	98@4600
	Net	65@3600	
Torque (Lb-Ft)	Gross	128@2300	132@28-3000
	Net	118@2200	

## ENGINE SPEED AND PISTON TRAVEL

Transmission		3-Speed (Production)	4-Speed (RPO 651)	Powerglide (RPO 360)
Rear Axle Ratio		3.27:1		
Tire Size		6.50 x 13 - 4 ply		
Crankshaft Revolutions per Mile		2789.3		
Crankshaft RPM @ 1 MPH	Low	162.7	169.6	84.6
	Second	92.5	109.2	
	Third		66.9	
	Direct Drive	46.5	46.5	46.5
	Reverse	184.5	170.1	84.6
Piston Travel (ft/mile)		1207.6		



# 145 CUBIC INCH SIX CYLINDER ENGINE - Cont'd.

## ADVERTISED CAR PERFORMANCE FACTORS (Model 569)

Engine	Turbo-Air			Super Turbo-Air	
	3.27:1			3.27:1	
Rear Axle Ratio	3-Speed	4-Speed	Powerglide	3-Speed	4-Speed
Performance Weight (lb)	3040	3045	3045	3040	3045
Pounds/Gross HP	38.0	38.1	38.1	31.0	31.1
Pounds/Cu. In. Disp.	21.0	21.0	21.0	21.0	21.0
Gross HP/ Cu. In. Disp.	.551	.551	.551	.675	.675
Power Disp. (cu. ft./mile)	117.2	117.2	117.2	117.2	117.2
Disp. Factor (Cu. Ft./Ton Mile)	77.1	77.0	77.0	77.1	77.1

\* - Data computed assuming zero slippage in torque converter

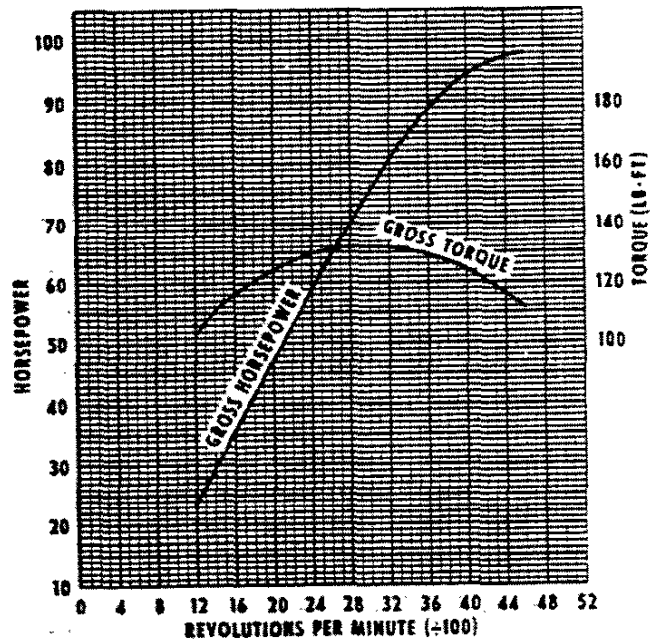
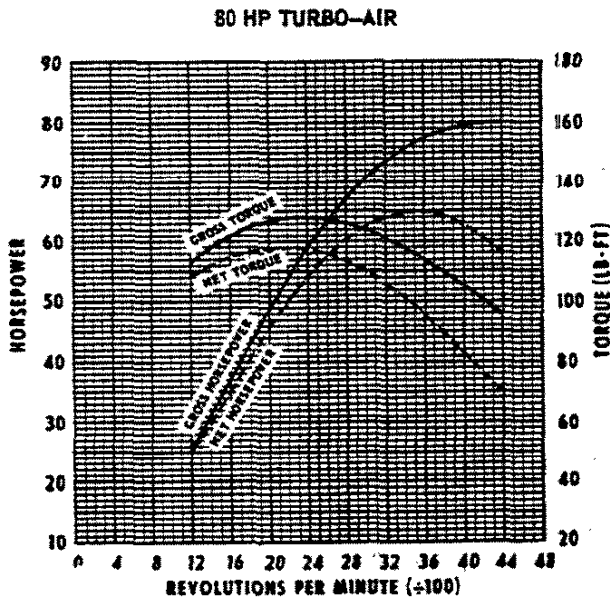
### GLOSSARY

Performance Weight = Curb Weight plus 600 Lb  
(weight of four 150 Lb passengers)

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

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

### 98 HP SUPER TURBO-AIR Special Camshaft



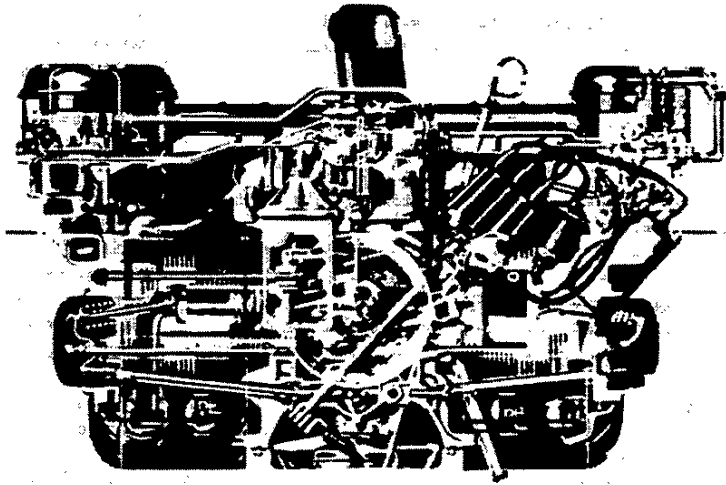
The engine performance curves represent full throttle performance as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and standard temperature of 60°F.

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

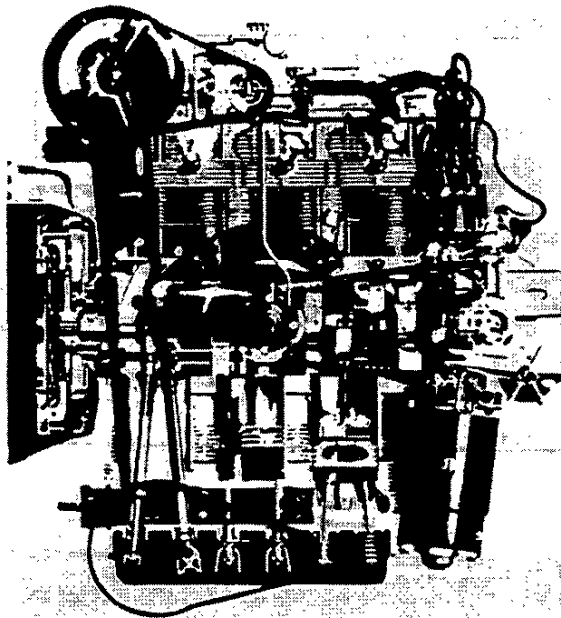
system, no fan, generator not charging, optimum spark advance, and optimum fuel setting.

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

ENGINE CROSS SECTION  
END VIEW



ENGINE CROSS SECTION  
PLAN VIEW



# 145 CUBIC INCH SIX CYLINDER ENGINE - Cont'd.

## PRINCIPAL COMPONENTS

### CRANKCASE

Type ----- Molded into left and right halves  
 Material ----- Cast aluminum

### ENGINE REAR HOUSING

Material ----- Cast aluminum

### CYLINDERS

Type ----- Individually cast with integral cooling fins.  
 Material ----- Cast iron  
 Bore Diameter ----- 3.4370-3.4400  
 Numbering System (front to rear)  
 Left bank ----- #6, 4, 2  
 Right bank ----- #5, 3, 1

### CYLINDER HEADS

Material ----- Permanent mold cast aluminum with integral cooling fins  
 Valve Seat Insert Material  
 Inlet ----- Cast nickel steel alloy  
 Exhaust ----- Cast chromium steel alloy

### CRANKSHAFT

Material ----- Drop forged steel  
 End Play ----- .002-.006  
 Vibration Damper ----- None  
 Counter weights ----- None  
 Pulley (PD) ----- 6.64

Stroke ----- 2.595-2.605  
 Main Bearings ----- Extra-life steel backed babbit  
 Type ----- Precision, removable  
 End Thrust Against Bearing ----- #1  
 Clearance ----- .0012-.0037

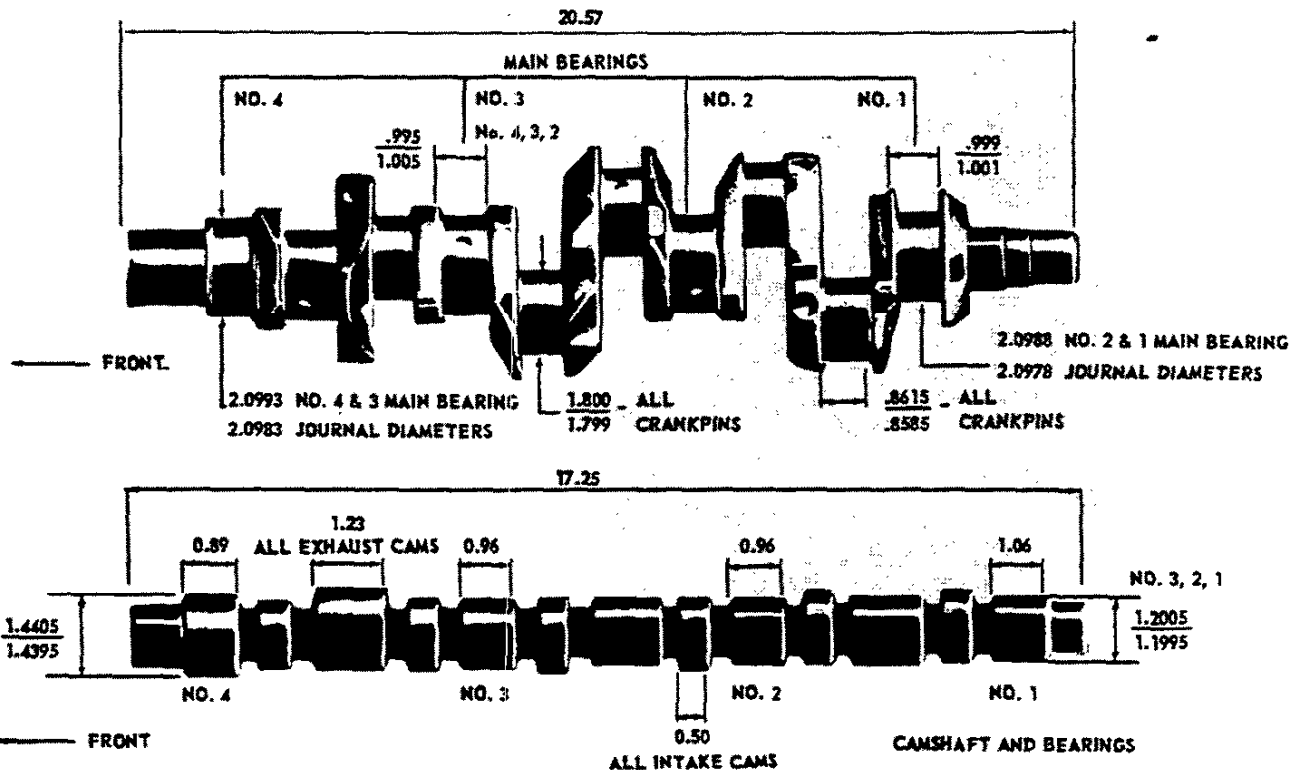
Bearings	Theo ID	Eff Length	Proj Area
1	2.1008	.785	1.649
2	2.1008	.752	1.580
3-4	2.1013	.752	1.580

### CAMSHAFT

Material ----- Cast alloy iron  
 Drive ----- Gear  
 Gear Material  
 Crankshaft ----- Steel  
 Camshaft ----- Permanent mold cast aluminum  
 Bearings ----- No inserts, aluminum crankcase machined for bearing surfaces.

### VALVE MECHANISM

Type ----- Stamped rocker arm & individual ball & stud, push rod actuated  
 Lifters ----- Hydraulic  
 Body Material  
 Foot ----- Cast iron  
 Sleeve ----- Steel  
 Plunger and push rod seat ----- Steel  
 Rocker Arm Ratio ----- 1.5:1  
 Valve Lash (hot) ----- Zero



**VALVES**

Material Inlet	----- Alloy steel
Stem to Guide Clearance	----- .0010-.0027
Material Exhaust	----- High alloy steel
Stem to Guide Clearance	----- .0015-.0032

**VALVE SPRINGS**

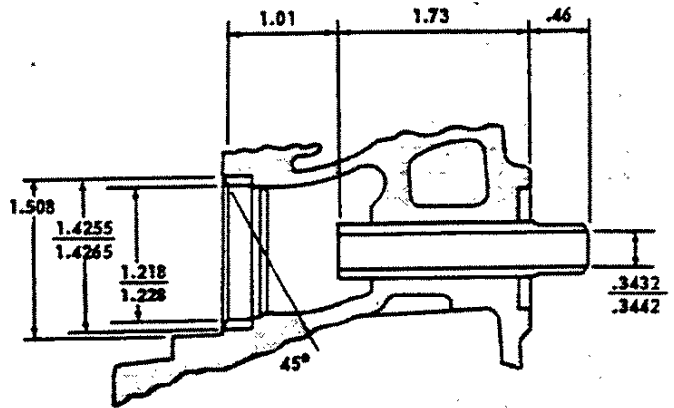
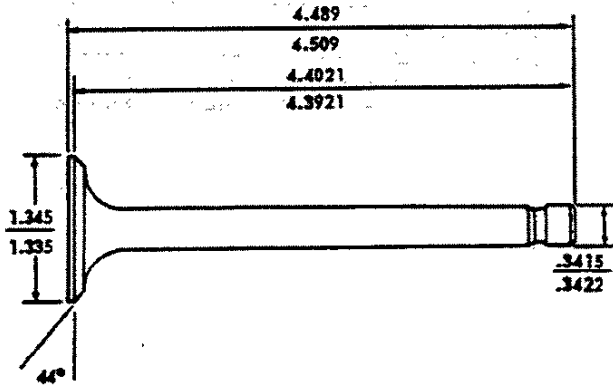
Compressed Length & Pressure (In@Lb)		
Camshaft	Production	Special
Valves closed	1.508@58-64	1.696@69-79
Valves opened	1.148@141-149	1.306@159-169
Free Length	1.74	2.08

**VALVE TIMING**

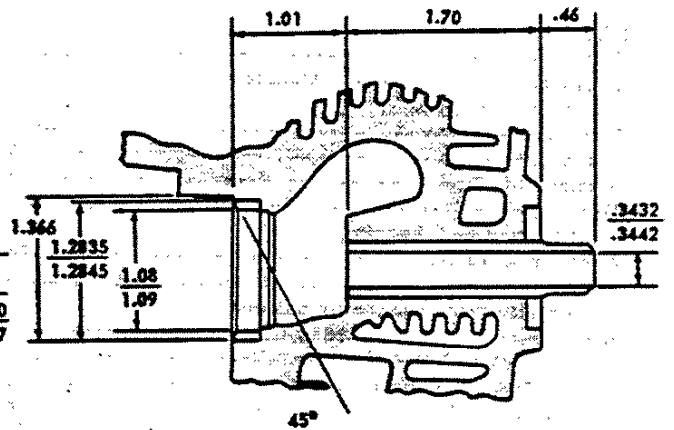
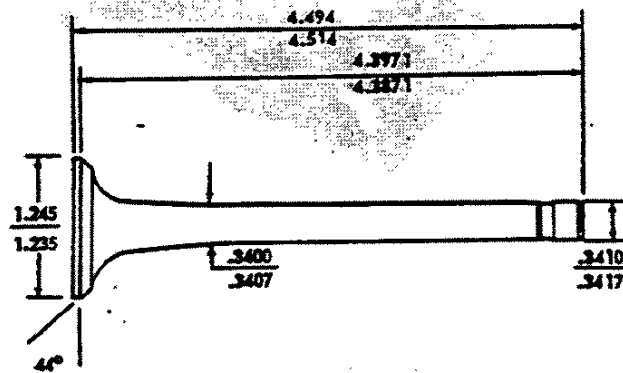
Camshaft	Production	Special (a)
Inlet opens - °BTC	43	54
Closes - °ABC	93	118
Exhaust opens - °BEC	87	90
Closes - °ATC	69	82
Inlet tappet lift	.20926	.25186
Exhaust	.22935	.25186
Ramp opening	.0056, 14°	.0036, 9°
Closing	.0070, 28°	.0070, 28°
Inlet valve lift	.314	.380
Exhaust	.344	.380

(a) - Used in Super Turbo-Air engine •

**INLET**



**EXHAUST**



# 145 CUBIC INCH SIX CYLINDER ENGINE-Cont'd.

## PRINCIPAL COMPONENTS - Continued

### PISTONS

Type ..... Slipper skirt, autothermic  
 Material ..... Cast alloy aluminum  
 Weight (Oz) ..... 14.61  
 Top Land Clearance ..... .022-.031  
 Skirt Clearance ..... .0011-.0015  
 Compression Ring Groove Depth ..... .193-.198  
 Oil Control Ring Groove Depth ..... .194-.199

### PISTON PINS

Type ..... Pressed in rod  
 Material ..... Alloy steel  
 Length ..... 2.630-2.650  
 Diameter ..... .7999-.8002  
 Clearance ..... .00015-.00025  
 Direction of Offset ..... Major thrust side

### COMPRESSION RINGS

Type ..... Tapered face  
 Material ..... Cast iron alloy  
 Coating ..... Wear resistant  
 Width ..... .0770-.0780  
 Wall thickness ..... .162-.172  
 Gap ..... .010-.020

### OIL CONTROL RINGS

Type ..... Single-piece  
 Material ..... Cast alloy iron  
 Coating ..... None  
 Width ..... .1860-.1865  
 Wall Thickness ..... .143-.149  
 Gap (rails) ..... .010-.020

### CONNECTING RODS

Material ..... Drop forged steel  
 Length (center to center) ..... 4.719-4.721  
 Weight (Oz) ..... 13.73  
 Bearings  
 Type ..... Precision, removable  
 Material ..... Extra-life steel backed babbitt  
 End play ..... .005-.010  
 Clearance ..... .0007-.0027  
 Effective length ..... .649  
 Theoretical ID ..... 1.8012  
 Projected area ..... 1.169  
 Super Turbo-Air -----Premium, copper-lead alloy

## COOLING SYSTEM

### GENERAL

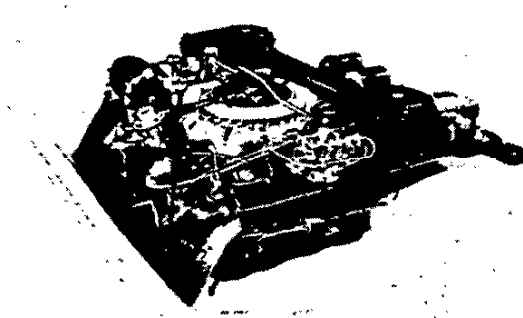
Type ..... Forced air cooling  
 Engine enclosed by sheet metal shrouds to direct air over engine components. Cooling controlled by thermostatically regulated air exhaust doors at rear of each lower shroud.

### ENGINE BLOWER

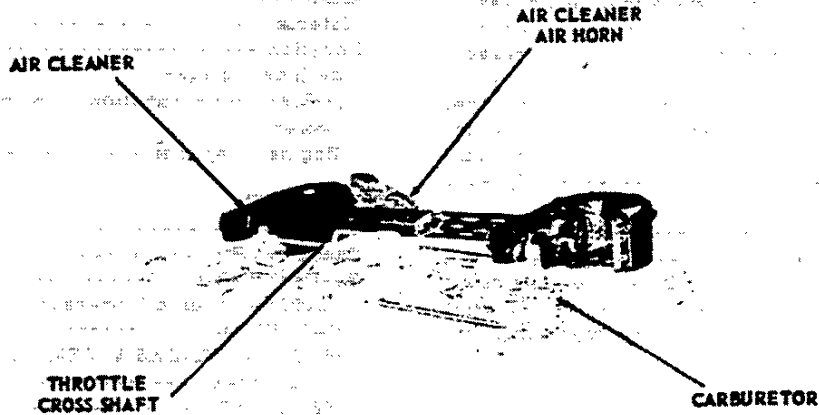
Type ..... Centrifugal  
 Location ..... Mounted horizontally on top center of engine.  
 Material ..... Steel  
 Diameter ..... 11.00  
 Number of Vanes ..... 24  
 Bearing ..... Sealed, permanently lubricated ball bearing  
 Number of Vanes ..... 24  
 Drive ..... By "V" belt from crankshaft over idler and generator pulleys  
 Air Flow ..... 1850 CFM @ 4000 engine RPM  
 Blower Pulley PD ..... 4.1875  
 Ratio (blower to engine speed) ..... 1.58:1  
 Idler Pulley PD ..... 3.32  
 Belt ..... "V"  
 Pitch length ..... 56  
 Width ..... .3801-.005  
 Angle of "V" ..... 40°

### ENGINE COOLING AIR THERMOSTATS

Type ..... Bellows (seamless)  
 Make ..... Harrison  
 Bellows start to open at ..... 205° F



## FUEL AND EXHAUST SYSTEM



### FUEL TANK

- Location ----- Under front compartment floor
- Capacity (Gallons) ----- 14
- Filler Location ----- Left front fender crown
- Fuel Filter Type ----- Strainer

### FUEL GAUGE (Tank Unit)

- Make ----- AC
- Type ----- Electric

### FUEL PUMP

- Make ----- AC
- Type ----- Mechanical
- Location ----- Mounted on engine rear housing
- Pressure Range (PSI) ----- 5.25-6.50
- Drive ----- By eccentric on rear end of crankshaft

### AIR CLEANER

- Type ----- Oil wetted
- Element Material ----- Polyurethane
- Number ----- Two

### CHOKE

- Type ----- Manual
- Location ----- Integral with each carburetor air horn.

### AIR INTAKE

- Sedans and Coupes ----- Air horn extension at center of tubular cross over duct.
- Station Wagon ----- Oval opening centrally located in cross over duct.

### CARBURETOR

- Number ----- Two (one for each cylinder bank)
- Make ----- Rochester
- Model, syn trans ----- 7019101
- Powerglide ----- 7019100
- Special camshaft ----- 7019107
- Type ----- Single barrel, downdraft
- SAE Flange Size ----- 0.75
- Venturi Type ----- Radial tube cluster
- Diameter ----- 1.00
- Throttle Bore ----- 1.2495-1.2505
- Stud Centers ----- 2.75
- Fuel Filter Location ----- Fuel inlet
- Material ----- Sintered bronze

### INTAKE MANIFOLD

- Type ----- Cast integral with cylinder heads

### EXHAUST MANIFOLD

- Material ----- Cast iron
- Type ----- Straight - fitted to three steel sleeves pressed into cylinder head exhaust ports. Forward end opens to Y-shaped single exhaust pipe.

### EXHAUST SYSTEM

- Type ----- Single, diffusion and resonance
- Muffler ----- Reverse flow
- Exhaust Pipe OD ----- 1.875
- Tail Pipe OD ----- 1.50
- Super Turbo-Air engine exhaust and tail pipe OD ----- 2.00

# 145 CUBIC INCH SIX CYLINDER ENGINE-Cont'd.

## LUBRICATION SYSTEM

### GENERAL

Type ..... Controlled, full pressure  
Main Bearings ..... Pressure  
Connecting Rods ..... Pressure  
Piston Pins ..... Splash  
Cylinder Walls ..... Cross sprayed  
Camshaft Bearings ..... Pressure  
Hydraulic Lifters ..... Pressure  
Timing Gears ..... Sprayed  
Crankcase Capacity (Qt)  
Dry ..... 5.5  
Refill ..... 4.0  
Filler Location ..... On engine rear cover  
Pressure Gauge Type ..... Electric  
Crankcase Vent ..... By road draft tube

### OIL PUMP

Type ..... Gear  
Location ..... In engine rear housing  
Driven By ..... Distributor  
Intake Type ..... Fixed  
Normal Oil Pressure (PSI @ RPM) ..... 35 @ 2000  
Capacity (GPM @ RPM) ..... 9 @ 4000

### OIL COOLER

Make ..... Harrison  
Material ..... Aluminum  
Location ..... On left bank of  
cylinder to rear  
By-Pass Valve Function--- Allows cold oil to by-pass  
cooler  
Begins to open @ ..... 10 PSI

### OIL FILTER

Type ..... Full flow  
Capacity (Pt) ..... 1.0  
By-Pass Valve ..... Allows oil to by-pass  
oil filter when oil pressure drop reaches 10 PSI  
Replacement ..... Complete

### LUBRICANT GRADES & TEMPERATURES

32°F & above ..... SAE-30\*  
10°F to 32°F ..... SAE-10W  
Below 10°F ..... SAE 5W-20  
\* Always use SAE 30 if daytime temperature is  
above 60°F

## ELECTRICAL SYSTEM

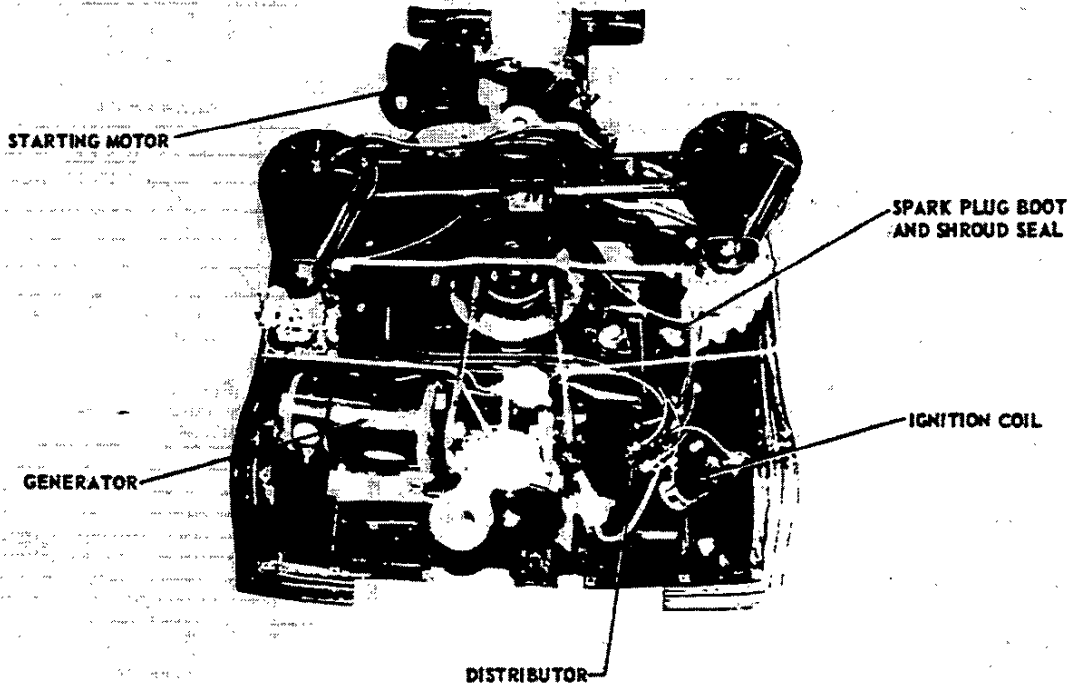
### STARTING

Ignition Switch .....4 positions; Lock, Off,  
On, and Start  
Starting Procedure  
Regular transmission --- Transmission in Neutral,  
depress clutch, and turn ignition key to extreme  
right  
Automatic transmission ..... Transmission in  
Neutral, turn ignition key to extreme right

### STARTING MOTOR

Make ..... Delco-Remy  
Model  
Manual trans ..... 1108306  
Automatic trans ..... 1108307  
Rotation (drive end view) ..... Clockwise  
Test Conditions ---- Engine at operating temperature  
No Load Test  
Amperes ..... 69  
Volts ..... 10.6  
RPM ..... 7675  
Drive  
Engagement type ..... Solenoid  
Number of teeth ..... 9  
Gear ratio, clutch starter ring gear to starter ----  
16.3:1  
Clutch starter ring gear tooth face width  
Conventional transmission ..... 363-. 387  
Automatic transmission ..... 236-. 260

ELECTRICAL SYSTEM - Contd.



**GENERATOR**

Make ----- Delco-Remy  
 Model ----- 1102227  
 Type ----- Two brush, shunt wound  
 Drive ----- Blower belt  
 Pulley Size ----- 2.88 PD  
 Generator RPM/MPH ----- 116  
 Maximum Generator Output RPM (hot) ----- 2450  
 Engine RPM @ Max Gen Output ----- 1065  
 Ratio (generator to engine speed) ----- 2.30:1  
 Rating  
 Amperes ----- 30  
 Volts ----- 14.5

**GENERATOR, OPTIONAL (RPO 650)**

Model ----- 1105135  
 Amperes ----- 35  
 Voltage Regulator ----- 1119635

**BATTERY**

Make ----- Delco  
 Model ----- 1980456

Voltage Rating ----- 12  
 Capacity ----- 35 amp hr@20 hr rate  
 Plates per Cell ----- 7  
 Terminal Grounded ----- Negative  
 Location ----- In engine compartment  
 on right hand side

**OPTIONAL BATTERY EQUIPMENT (RPO 345)**

Model ----- 1980556  
 Capacity ----- 40-amp-hr @ 20 hr rate  
 Plates per Cell ----- 9

**VOLTAGE AND CURRENT REGULATOR**

Make ----- Delco-Remy  
 Model ----- 1119001  
 Type ----- Vibrator  
 Cut-out Relay  
 Closing voltage @ Gen RPM ----- 11.8-13.5@1300  
 Regulated Voltage ----- 14.5  
 Regulated Current Amperes ----- 30



# 145 CUBIC INCH SIX CYLINDER ENGINE-Cont'd.

## ELECTRICAL SYSTEM - Contd.

### DISTRIBUTOR (80 HP w/synchromesh)

Make .....	Delco-Remy
Breaker Cap .....	.019
Cam Angle .....	33±1°
Centrifugal Spark Adv Begins (RPM) .....	400
Max degrees @ RPM .....	32 @ 3600
Vacuum Advance Begins ("Hg) .....	6.0
Max degrees @ "Hg .....	23 @ 15.2
Initial setting c/s degrees .....	4

### DISTRIBUTOR (80 HP w/Powerglide)

Centrifugal Spark Adv Begins (RPM) .....	1700
Max degrees @ RPM .....	20 @ 3600
Vacuum Adv Begins ("Hg) .....	7.0
Max degrees @ "Hg .....	23 @ 16.2
Initial setting c/s degrees .....	13

### • DISTRIBUTOR (80 HP Monza w/Powerglide and 98 HP w/Powerglide in all models)

Centrifugal Spark Adv Begins (RPM) .....	1600
Max degrees @ RPM .....	20 @ 4100
Vacuum Adv Begins ("Hg) .....	7.0
Max degrees @ "Hg .....	23 @ 16.2
Initial Setting c/s degrees .....	13

### DISTRIBUTOR (98 HP w/synchromesh)

Centrifugal Spark Begins (RPM) .....	700
Max degrees @ RPM .....	24 @ 4800
Vacuum Adv Begins ("Hg) .....	6.0
Max degrees @ "Hg .....	23 @ 15.2
Initial setting c/s degrees .....	13

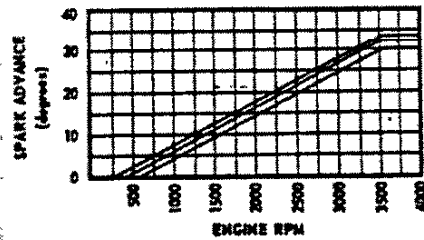
### SPARK PLUGS

Make .....	AC
Model .....	46-FF
Thread Size .....	14MM
Gap .....	.035
Torque .....	25

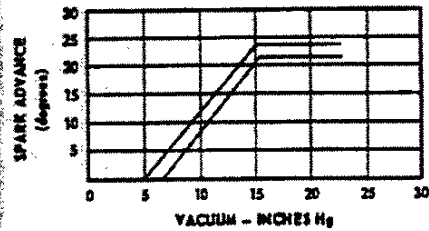
### COIL

Make .....	Delco-Remy
Amps Drawn:	
Engine stopped .....	4.0
Engine idling .....	1.8

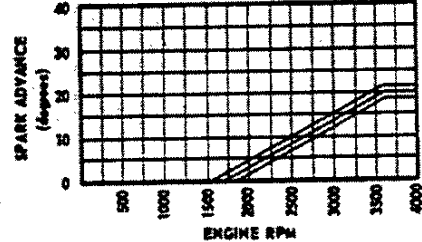
**TURBO-AIR ENGINE**  
(Synchromesh)  
CENTRIFUGAL ADVANCE  
IGNITION TIMING 1° BTC



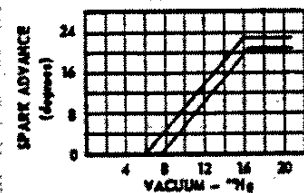
VACUUM ADVANCE



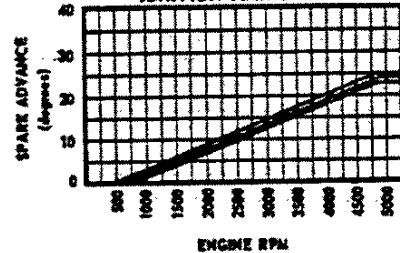
(Powerglide)  
CENTRIFUGAL ADVANCE  
IGNITION TIMING 13° BTC

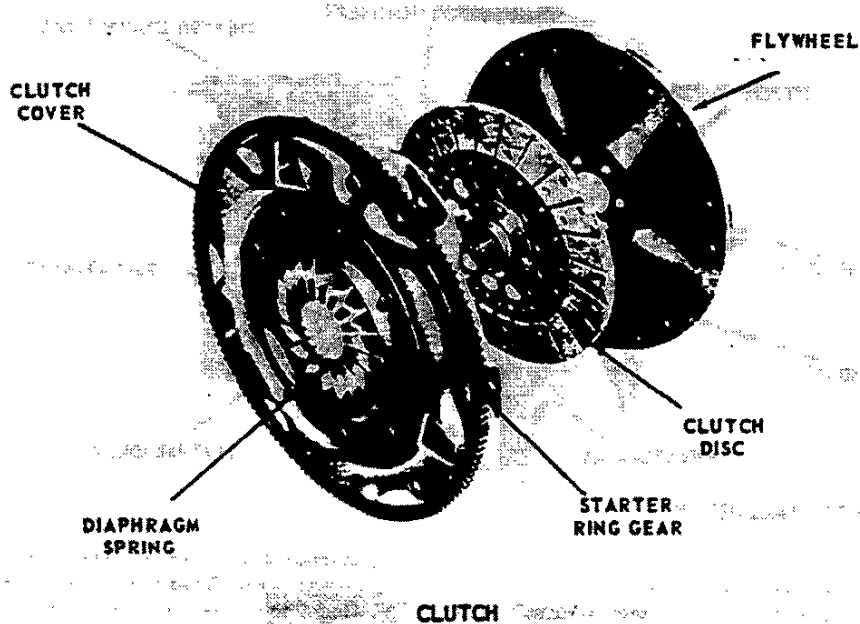


VACUUM ADVANCE



**SUPER TURBO-AIR ENGINE**  
CENTRIFUGAL ADVANCE  
IGNITION TIMING 13° BTC





**GENERAL**

Type ----- Single plate, dry disc  
 Rated Torque Capacity (Lb-Ft) ----- 164

**CLUTCH SPRING**

Material ----- Spring steel, heat treated  
 Spring Pressure ----- Through diaphragm spring  
 Total Pressure (Lb) ----- 900-1050  
 Release ----- Diaphragm action,  
 spring pivots on pivot ring

**DRIVEN DISK**

Material ----- Woven type asbestos  
 Outside Diameter ----- 8.0  
 Inside Diameter ----- 6.0  
 Area Sq In (both facings) ----- 44.0

**BEARINGS**

Clutch Release  
 Make and Number ----- Chevrolet, 907052  
 Lubrication ----- Packed for life  
 Pilot  
 Make and number ----- Chevrolet, 6256648  
 Type ----- Sintered powdered bronze,  
 oil impregnated.  
 Outside diameter ----- .8835-.8845  
 Inside diameter ----- .5915-.5925  
 Width ----- .740-.760  
 Lubrication ----- Self

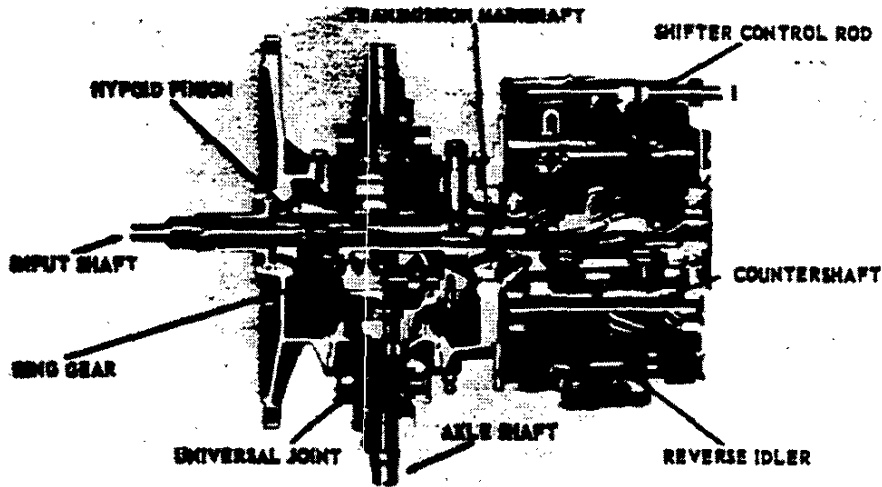
**CONTROLS**

Clutch Fork Type ----- Forged pivot mounted on ball  
 Pedal Mounting ----- Pendant from brace on dash

**FLYWHEEL**

Type ----- 3-piece flexible construction  
 Material ----- Cast iron  
 Weight (Lb) ----- 18.7  
 Clutch Attachment to Flywheel ----- 6 bolts

# TRANSAXLE



## TRANSAXLE WITH 3-SPEED TRANSMISSION

### GENERAL DATA

Make ..... Chevrolet  
 Type ..... 3-speed synchromesh, manual shift  
 Location ..... In rear compartment-integral with engine and differential  
 Transmission Case Material ..... Cast iron alloy

### GEARSHIFT

Control ..... Remote  
 Type ..... Lever  
 Location ..... Floor mounted

### GEARS

Type ..... Helical  
 Material ..... Forged steel, hardened

Synchronization ..... 2nd and 3rd  
 Constant Mesh Gears ..... 2nd and 3rd  
 Sliding Gears ..... 1st and reverse  
 Ratios  
 First ..... 3.50:1  
 Second ..... 1.99:1  
 Third ..... 1.00:1  
 Reverse ..... 3.97:1

### LUBRICANT

Type Recommended ..... Multipurpose gear lubricant SAE 80  
 Capacity (Pt) ..... 1.9

## REAR DRIVE

### GENERAL

Type ..... Differential integral with engine and transmission, driving rear wheels independently through  $\theta$ -joints.

### AXLE SHAFT

Type ..... Forged and hardened steel with wheel drive flange forged integral with shaft.  
 Diameter ..... 1.12  
 Hub Attachment ..... Bolted to integrally forged wheel drive flange.  
 Hub Flange Diameter ..... 3.83

### DIFFERENTIAL

Type ..... 2 pinion  
 Pinion Teeth, No of ..... 10  
 Ring gear teeth ..... 16  
 Pinion Shaft Length ..... 3.870-3.980  
 Diameter ..... .6710-.6720

### DRIVE DATA

Rear Axis Ratio	3.27:1	3.55:1	3.89:1
Hypoid Gear Teeth			
Ring gear	36	32	35
Pinion gear	11	9	9

### LUBRICANT

Capacity (Pt) ..... 3.2  
 Type ..... Multi-purpose gear lubricant (SAE 80)

### SPEEDOMETER GEARS

Tooth Pitch ..... 30  
 Teeth, Drive ..... 8  
 Driven - 3.27:1 axle ..... 21  
           - 3.55:1 axle ..... 23  
           - 3.89:1 axle ..... 25

TRANSAXLE WITH OPTIONAL 4-SPEED TRANSMISSION

GENERAL DATA

Make ----- Chevrolet  
 Type ----- 4-speed synchromesh, manual shift  
 Location ----- In rear compartment  
 integral with engine and differential  
 Transmission case material ----- Cast iron alloy

GEARSHIFT

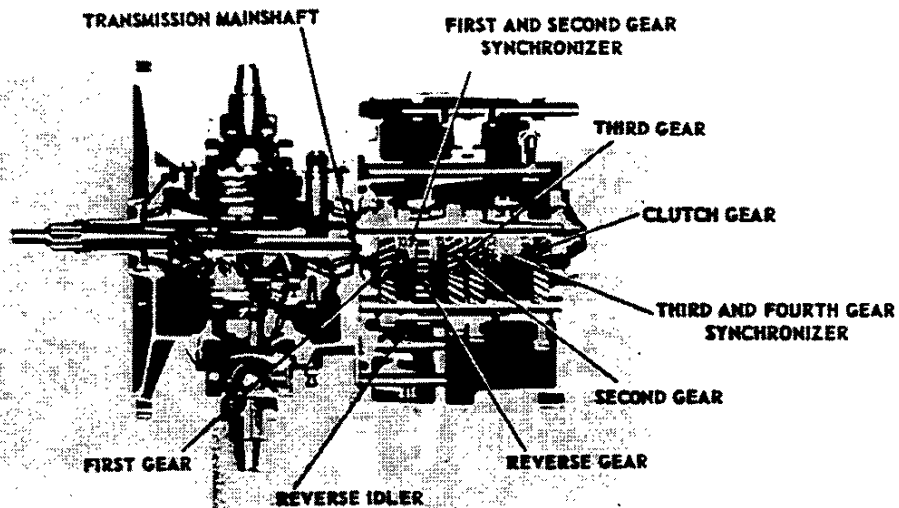
Control ----- Remote  
 Location ----- Floor mounted  
 Type ----- Lever with  
 shift pattern etched in knob.

GEARS

Type ----- Helical on  
 all forward speeds, spur on reverse.  
 Material ----- Forged steel, hardened  
 Synchronization ----- 1st, 2nd, 3rd, and 4th  
 Constant mesh gears ----- 1st, 2nd, 3rd, and 4th  
 Ratios  
 First ----- 3.65:1  
 Second ----- 2.35:1  
 Third ----- 1.44:1  
 Fourth ----- 1.00:1  
 Reverse ----- 3.66:1

LUBRICANT

Type recommended ----- Multipurpose gear  
 lubricant SAE 80  
 Capacity (pt) ----- 3.3



**TRANSAXLE WITH OPTIONAL  
AUTOMATIC TRANSMISSION**

**GENERAL DATA**

Make and Type ----- Chevrolet, hydraulic torque converter with automatic planetary gear system for reverse and low.  
 Transmission Case Material --- Cast aluminum alloy  
 Converter Maximum Torque Ratio (at stall)---- 2.6:1  
 Total Transmission Torque Multiplication (converter planetary gear ratio)  
     Maximum overall transmission ratio ---- 4.73:1  
     Low gear drive or low range -- 4.73:1 to 1.82:1  
     Reverse range ----- 4.73:1 to 1.82:1  
 Oil Type ----- "A", suffix "A"  
 Oil Filler Location ----- Right side of engine  
 Oil Capacity (Pt)  
     Dry ----- Approx 13  
     Refill ----- Approx 6  
 Oil Cooled By ----- Air  
 Selector Lever Location ----- At right of steering column on instrument panel.  
 Operation ----- Actuates manual valve in hydraulic control system.  
 Positions (indicated on quadrant on instrument panel) ----- Four (top to bottom) - L-Low, D-Drive, N-Neutral, R-Reverse.  
 Drive Range - Representative Shift Points  
 Accelerator  

Pedal Position	Upshift	Downshift
Closed throttle	10.0-12.5	8-12
Throttle at detent	34-41	23-30
Full throttle	41-47	38-44

**HYDRAULIC CONTROLS**

Manual Valve  
 Type ----- Spool  
 Pressure Regulator Valve  
 Type ----- Spool  
 Governor  
 Type ----- Centrifugal  
 Drive ----- From transmission output shaft

**HYDRAULIC TORQUE CONVERTER**

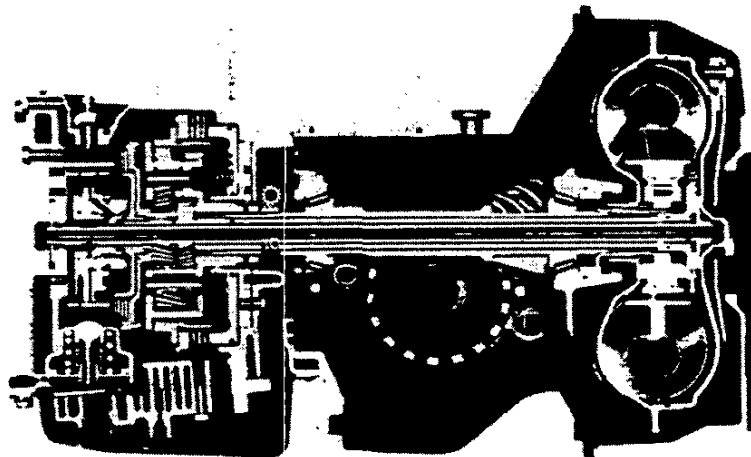
Type ----- Three element  
 Driving Member (pump) ----- Sheet metal, multi-vane type, spot welded to torque converter housing. Housing cover is bolted to flywheel.  
 Driven Member (turbine) ----- Sheet metal, multi-vane type, supported by torque converter housing cover. Turns independently of housing  
 Splined to input shaft.  
 Reaction Member (stator) ----- Aluminum air foil type supported on stationary sleeve by an over-running clutch of cam and roller design.  
 Diameter ----- 10"

**CLUTCHES**

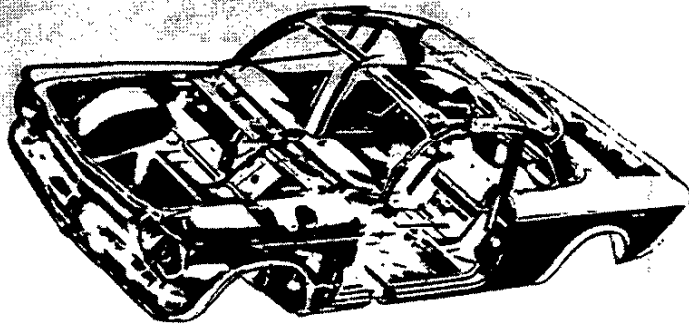
Type ----- Multiple disc  
 High  
     Discs, Driving  
         Number and type ----- Two, non-metallic faced  
     Discs, Driven  
         Number and type ----- Three, steel  
 Reverse  
     Discs, Driving  
         Number and type ----- Four, non-metallic faced  
     Discs, Driven  
         Number and type ----- Four, steel plates and one cast iron pressure plate.

**PLANETARY GEAR UNIT**

Type ----- Compound planetary  
 Gear Ratios  
     Cruising range ----- 1:1 (direct drive)  
     Low range ----- 1.82:1  
     Reverse ----- 1.82:1  
     Low brake band ----- Double-wrap design  
     Low band servo, Type--- Piston, one release spring



# BODY



**EXTERIOR PAINT PROCESS**.....

**EXTERIOR-INTERIOR COLOR COMBINATIONS**.....

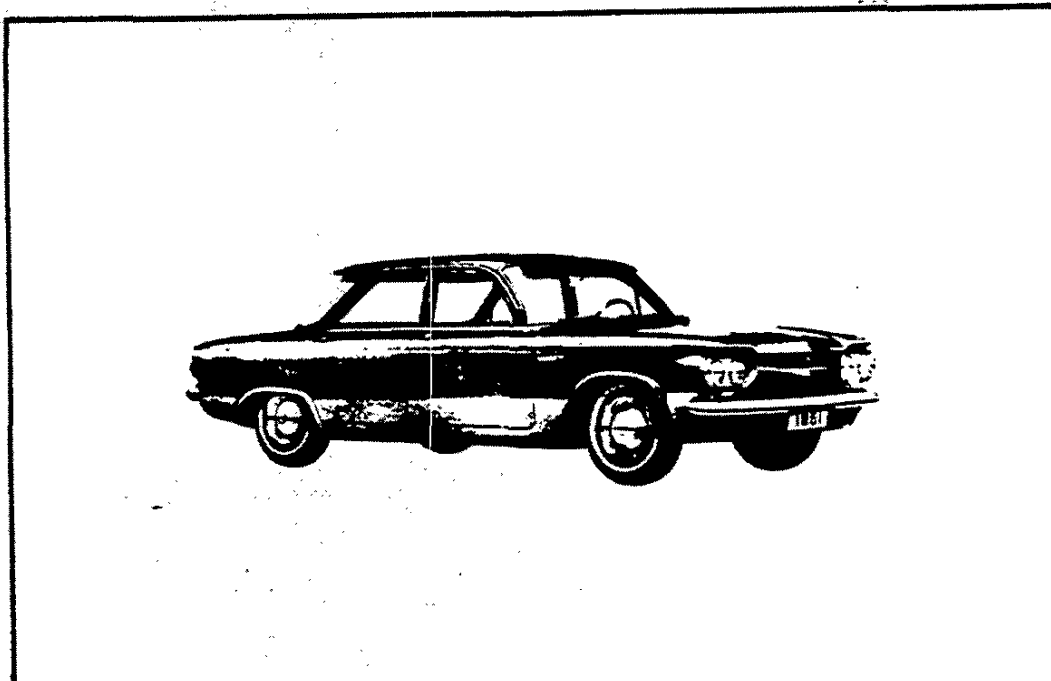
**GREENBRIER EXTERIOR-INTERIOR COLOR COMBINATIONS**.....

**BODY CONSTRUCTION**.....

**SEAT PADDING**.....

**FOR COMPLETE SPECIFICATIONS  
ON GREENBRIER SPORTS WAGON,  
SEE 1961 CHEVROLET TRUCK SPEC-  
IFICATIONS.**

## EXTERIOR PAINT PROCESS



### NINE STEP FINISHING PROCESS •

1. **RUSTPROOFING** . . . Anti-corrosion treatment requires selective use of three specialized compounds containing non-ferrous metallic particles. A high zinc content primer is sprayed on the interior surfaces of structural members frequently subjected to moisture. This primer is applied prior to assembly and does not inhibit welding operations. Structural members with a final paint finish and some less critical corrosion areas are treated with a primer of lower zinc content. Localized areas that tend to collect water are sealed with metallic aluminum dispersed in a wax base vehicle.
2. **BODY AND SHEET METAL PRIMER** . . . Exposed surfaces of the body, including the underbody, receive a coat of specially formulated anti-corrosion primer. This corrosion resistant paint is baked at 300°F for 40 minutes. After baking a coat of sealer is applied to all surfaces requiring a subsequent coat of lacquer.
3. **PRIMER-SURFACER COAT** . . . A primer-surfacers coat is applied to all outside surfaces of the body requiring lacquer and then oven baked a minimum of 45 minutes at 285°F.
4. **SANDING** . . . Power wet-sanding followed by hand sanding is done on all surfaces requiring lacquer. After sanding, surface is inspected and additional spot sanding is done to assure an absolutely smooth surface as a base for the lacquer.
5. **LACQUERING** . . . Many coats of acrylic lacquer are now sprayed on the surfaces to build up a finish of the required thickness for each color.
6. **FINAL BAKING** . . . To assure a durable, hard, high luster finish the lacquer is now baked 30 minutes at 235°F.
7. **UNDERCOATING** . . . An asphaltic based - asbestos fiber-type sound deadener is sprayed inside the wheel housings and on the underside of the underbody at designated locations to block out road noises.
8. **POLISHING** . . . Machine buffing with special pastes to provide both a high luster and a glassy smooth surface.
9. **PAINT REPAIR** . . . Any slight mars, nicks, or scratches that might occur during final assembly are factory-repaired and corrected before shipping.

## EXTERIOR - INTERIOR COLOR COMBINATIONS

### EXTERIOR-INTERIOR COLOR COMBINATIONS CORVAIR 500 AND 700 SERIES

EXTERIOR		INTERIOR		
SOLID COLORS, WHEELS AND LOWER BODY COLOR OF TWO-TONE MODELS	ROOF OF TWO- TONED MODELS	FABRICS	PAINT	
			All except Instrument Panel and Steering Wheel	Instrument Panel and Steering Wheel
Tuxedo Black	Ermine White	Gray	Solid or Lower Body Color	Black
Ermine White	_____			Dark Gray
				Medium Green
				Medium Blue
		Red*		
Roman Red	Ermine White	Gray**		Red
		Red*		
Sateen Silver	Ermine White	Blue		Medium Blue
Jewel Blue	_____			Dark Blue
Midnight Blue	Jewel Blue			
Seafoam Green	_____	Green	Medium Green	
Arbor Green	Seafoam Green			
Seamist Turquoise	_____	Gray	Medium Turquoise	
Twilight Turquoise	Seamist Turquoise			
	Ermine White			
Coranna Cream	_____		Dark Gray	
Honduras Maroon	_____			

\* - 700 Series only.

\*\* - 500 Series only.

1961 CHEVROLET CORVAIR

October 1960

BODY-3



# EXTERIOR - INTERIOR COLOR COMBINATIONS

## EXTERIOR-INTERIOR COLOR COMBINATIONS CORVAIR MONZA

EXTERIOR	INTERIOR		
	FABRICS	PAINT EXCEPT INSTRUMENT PANEL AND STEERING WHEEL	INSTRUMENT PANEL AND STEERING WHEEL
Tuxedo Black	Red	Red	Red
	Black	Black	Black
	White	White	
Ermine White	Fawn	Medium Fawn	Medium Fawn *
	Red	Red	Red
	Green	Medium Green	Medium Green *
	Blue	Medium Blue	Medium Blue *
	Black	Black	Black
	White	White	
Roman Red	Red	Red	Red
	White	White	
Sateen Silver	Blue	Medium Blue	Medium Blue *
	Black	Black	Black
	White	White	
	Red	Red	Red
Jewel Blue	Blue	Medium Blue	Medium Blue *
Midnight Blue			
Seafoam Green	Green	Medium Green	Medium Green *
Arbor Green			
Coronno Cream	Black	Black	Black
Almond Beige	Fawn	Medium Fawn	Medium Fawn *
Fawn Beige			
Honduras Maroon	Black	Black	Black
	White	White	
	Fawn	Medium Fawn	Medium Fawn *

\* - Steering wheel is two-tone.

## GREENBRIER EXTERIOR - INTERIOR COLOR COMBINATIONS

### EXTERIOR-INTERIOR COLOR COMBINATIONS GREENBRIER SPORTS WAGON

EXTERIOR			INTERIOR	
SOLID COLORS, UPPER AND LOWER BODY COLOR; WHEELS* OF TWO-TONE MODELS	COVE OF TWO- TONE MODELS	BUMPER AND HUB CAPS**	FABRICS**	PAINT**
Jet Black	Cameo White	Cameo White	Silver and Charcoal	Silver and Charcoal
Cameo White	Cardinal Red			
Pure White	—————	Pure White		
Cardinal Red	Cameo White	Cameo White		
Brigade Blue				
Balboa Blue				
Woodsmoke Blue				
Neptune Green				
Woodland Green				
Tampico Turquoise				
Flaxen Yellow				
Yukon Yellow				
Omaha Orange				
Tahiti Coral				
Romany Maroon				

\* - Wheels black on solid color models.

\*\* - For complete coverage on deluxe version of Greenbrier Sports Wagon, see 1961 Truck Engineering Specifications book.

## BODY CONSTRUCTION

### GENERAL

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

### DOORS AND LOCKS

Door Construction ----- Two full steel welded panels.

Door Handles ----- Push-button with rotary type door latches. Inside push button locks on 4-door models (rear doors).

Door Ventipanes ----- Friction type

Key Locks ----- One key operates all car locks.

### VENTILATION

Type ----- Cowl top with plenum chamber.

### WINDSHIELD WIPERS

Type ----- Positive action single speed electric.

Linkage ----- Parallel acting

### SPARE TIRE MOUNT

Location ----- Station wagon, rear of front luggage compartment. Sedans and coupes, right rear corner in engine compartment.

BODY GLASS VISIBILITY AREA (SQ IN)\* •

LOCATION		527	569	727	769-969	535	735	927	
Windshield		1122.8				1205.8		1122.8	
Front Door Window	Pivoting Ventipane	62.0						80.8	62.0
	Roll Down	706.0	482.1	706.0	482.1	492.6		706.0	
Rear Door Window	Roll Down	610.6		610.6		857.7			
	Roll Down	259.2			940.2		259.2		
Rear Quarter Window	Fixed	247.7		1104.2		663.3		1069.2	
	One-Piece	1069.2	1104.2	1069.2	1104.2	663.3		1069.2	
Total Visibility (Sq In)		3207.7	3381.7	3219.2	3381.7	4240.4		3219.2	

\* - All glass is Safety Solid Plate except the windshield and ventipane which are Laminated Safety Plate.

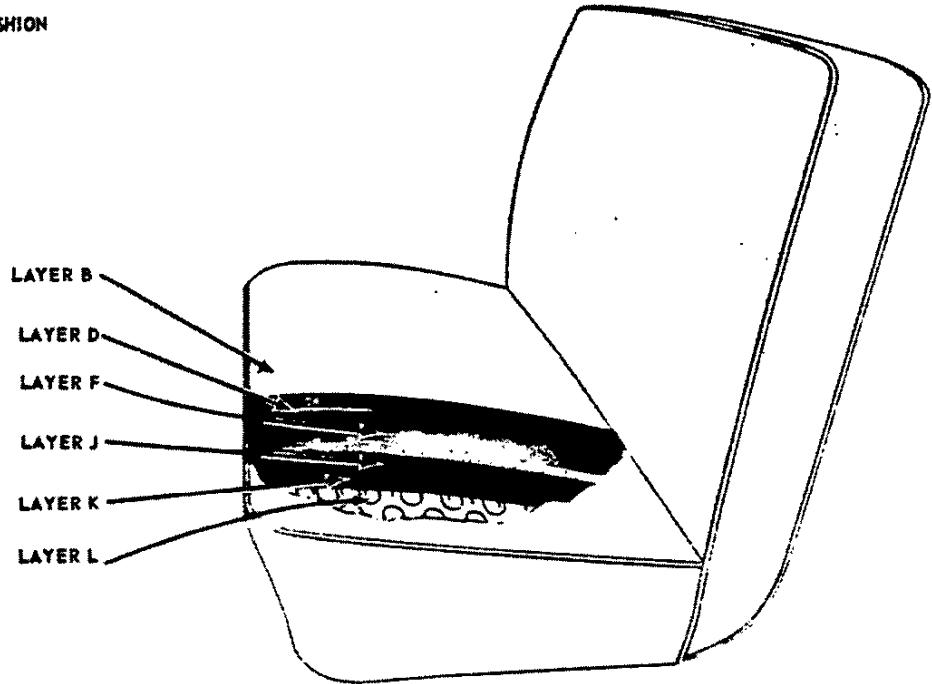
### • LUGGAGE CAPACITIES

LOCATION	Overall (Cu Ft)		Luggage Set (Cu Ft)	
	527-727-927	535-735	527-727-927	535-735
	569-769-969		569-769-969	
Front Compartment	12.6 *	10.0	6.6	
Rear Seat Well	3.2		1.2	
Rear Compartment (Includes rear seat well and folding seat down)	16.5		15.3	
Rear Seat - Folded		58.0		
Rear Seat - Erect		32.0		
Total Capacity	29.1 *	68.0	21.9	

\* - 2.1 (for spare tire) when FOA 114 is used.

## SEAT PADDING

EXAMPLE  
769 FRONT SEAT CUSHION



### MODELS •

Material Application *	527-569	727-769-969	927	535	735
Front Seat Cushion	A-D-F-J-K-L	B-D-F-J-K-L	C-D-G-H-K	A-D-F-J-K-L	B-D-F-J-K-L
Rear Folding Seat Cushion	A-E-J-K-L	B-E-J-K-L	C-E-J-K	A-E-J-K-L	B-E-J-K-L

Item	Material Type
A	Cloth-Cover
B	Cloth-Cover (Imitation Leather Side Facing)
C	Covering-Vinyl
D	3 oz. #1 Cotton Topper
E	6 oz. #1 Cotton Topper
F	3/4" Polyurethane Pad
G	1-1/2" Polyurethane Pad
H	3 oz. #3 Cotton Burlap
J	1/2" 45 oz. Jute Base Pad
K	Wire-Burlap Insulator
L	Zig-Zag Spring

\* - Standard fixed rear seat cushion on sedans and coupes same as folding seat cushion.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the role of data in decision-making. It explains how data-driven insights can help identify trends, anticipate challenges, and make informed strategic decisions that drive the organization's success.

4. The fourth part of the document discusses the importance of data security and privacy. It outlines the measures that should be taken to protect sensitive information and ensure compliance with relevant regulations and standards.

5. The fifth part of the document addresses the challenges of data integration and interoperability. It explores the various factors that can hinder the seamless flow of data between different systems and offers strategies to overcome these challenges.

6. The sixth part of the document discusses the role of data in fostering innovation and growth. It explains how data can be used to identify new market opportunities, develop innovative products, and optimize existing processes.

7. The seventh part of the document focuses on the importance of data literacy and skills. It emphasizes the need for employees to have a strong understanding of data and the ability to use it effectively in their work.

8. The eighth part of the document discusses the role of data in building a data-driven culture. It explains how data can be used to promote transparency, accountability, and a focus on evidence-based decision-making throughout the organization.

9. The ninth part of the document addresses the challenges of data governance and compliance. It outlines the various factors that can impact data governance and offers strategies to ensure compliance with relevant regulations and standards.

10. The tenth part of the document discusses the role of data in measuring organizational performance. It explains how data can be used to track key performance indicators (KPIs) and identify areas for improvement.

11. The eleventh part of the document focuses on the importance of data in risk management. It explains how data can be used to identify potential risks, assess their impact, and develop effective risk mitigation strategies.

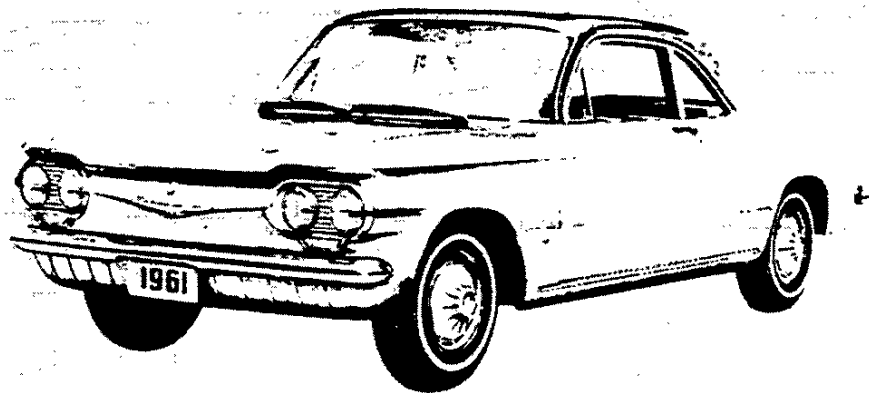
12. The twelfth part of the document discusses the role of data in customer relationship management (CRM). It explains how data can be used to understand customer needs, personalize marketing efforts, and improve customer satisfaction.

13. The thirteenth part of the document addresses the challenges of data retention and archiving. It outlines the various factors that can impact data retention and offers strategies to ensure that data is properly stored and accessible when needed.

14. The fourteenth part of the document discusses the role of data in supply chain management. It explains how data can be used to optimize supply chain operations, reduce costs, and improve delivery times.

15. The fifteenth part of the document focuses on the importance of data in human resources management. It explains how data can be used to attract and retain top talent, improve employee performance, and create a positive work environment.

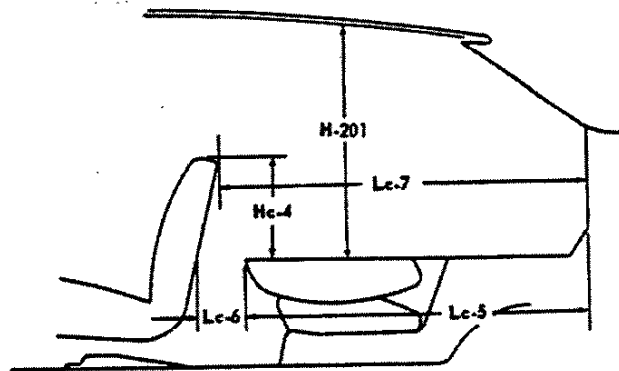
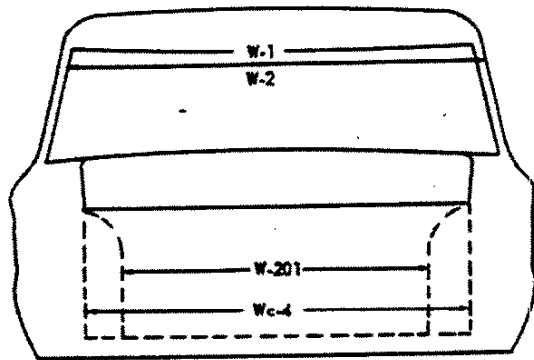
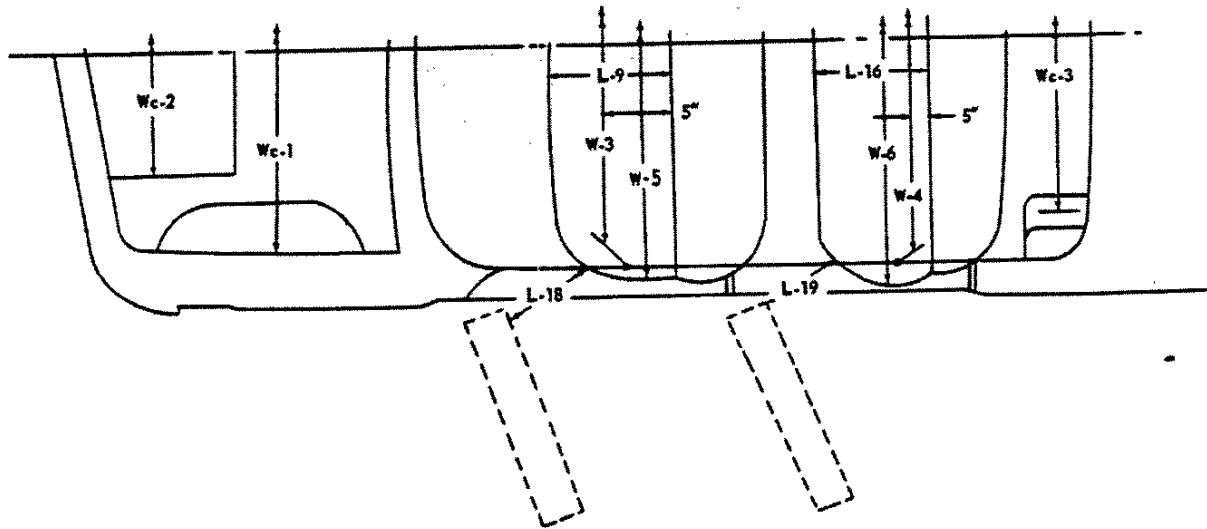
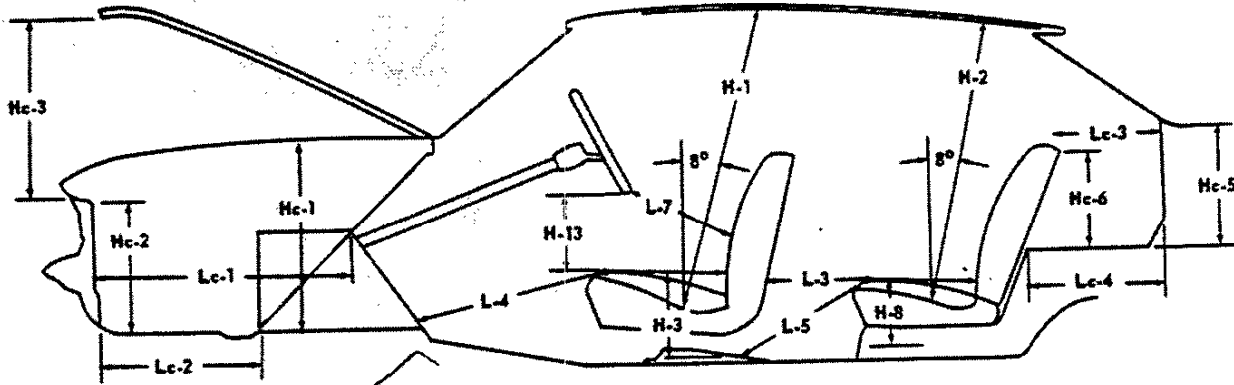
# DIMENSIONS AND WEIGHTS



INTERIOR DIMENSIONS .....	2
EXTERIOR DIMENSIONS .....	4
GREENBRIER EXTERIOR-INTERIOR DIMENSIONS .....	6
VEHICLE WEIGHTS .....	7

FOR COMPLETE SPECIFICATIONS ON GREENBRIER SPORTS WAGON, SEE 1961 CHEVROLET TRUCK SPECIFICATIONS.

# INTERIOR DIMENSIONS



### INTERIOR LENGTHS

Code	Description	MODELS •			
		527-727	927	569-769-969	535-735
L-3	Rear compartment room	22.5		25.5	24.6
L-4	Leg room - front	44.0	43.0		44.0
L-5	Leg room - rear	31.5	31.0		36.5
L-7	Steering wheel clearance to seat back	15.0	14.5		15.0
L-9	Seat depth - front			17.5	
L-16	Seat depth - rear	13.5		17.5	17.0
L-18	Entrance - foot clearance - front	14.0	13.5		14.0
L-19	Entrance - foot clearance - rear	9.0			11.0
L-200	Load length - $\bar{C}$ floor - front seat to tailgate - open				79.4
L-201	Load length - $\bar{C}$ floor - rear seat to tailgate - open				49.5
L-202	Load length - front seat to tailgate - closed				77.2
L-203	Load length - rear seat to tailgate - closed				47.2
L-204	Load length at belt - front seat to tailgate - closed				70.0
L-205	Load length at belt - rear seat to tailgate - closed				38.5
L-206	Load length at roof - front seat to back window				63.2
L-207	Load length at roof - second seat to back window				31.7
Lc-1	Front end panel to compartment pan channel		32.5		
Lc-2	Floor length - luggage compartment		18.0		
Lc-3	Stowage well length at rear seat top		10.0		
Lc-4	Stowage well length - maximum		16.3		
Lc-5	Load floor length - folding seat down		42.4		
Lc-6	Load floor to front seat back		5.4		
Lc-7	Back of front seat to rear of package shelf		43.9		

### INTERIOR WIDTHS

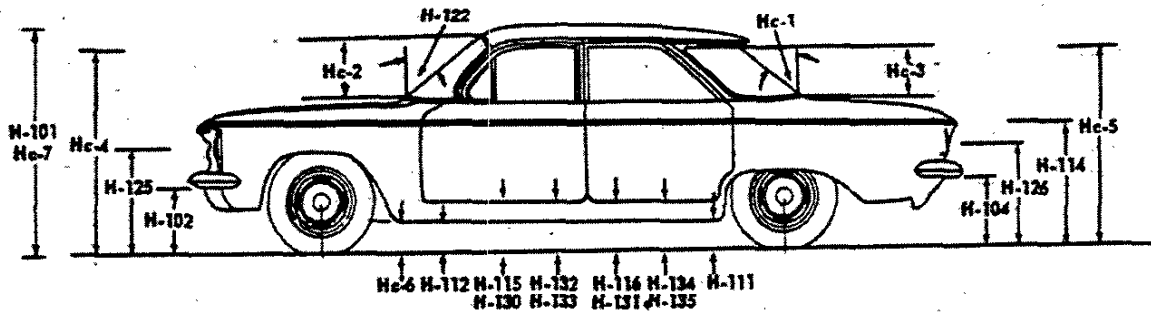
W-1	Hat room - front		50.5		
W-2	Hat room - rear	49.0		48.0	50.5
W-3	Shoulder room - front		54.0		
W-4	Shoulder room - rear	52.0			53.5
W-5	Hip room - front		58.5		
W-6	Hip room - rear	57.0			58.0
W-7	Steering wheel center to $\bar{C}$ of car		14.0		
W-200	Maximum floor width				56.9
W-201	Width between wheelhouses (minimum)				38.9
W-203	Tailgate opening width at floor				46.4
W-204	Tailgate opening width at belt				49.7
W-205	Rear window opening width				49.3
Wc-1	Luggage compartment maximum opening width		46.1		
Wc-2	Floor width - luggage compartment (mean)		24.0		
Wc-3	Stowage well width (mean)		38.0		
Wc-4	Maximum width - luggage compartment		49.5		

### INTERIOR HEIGHTS

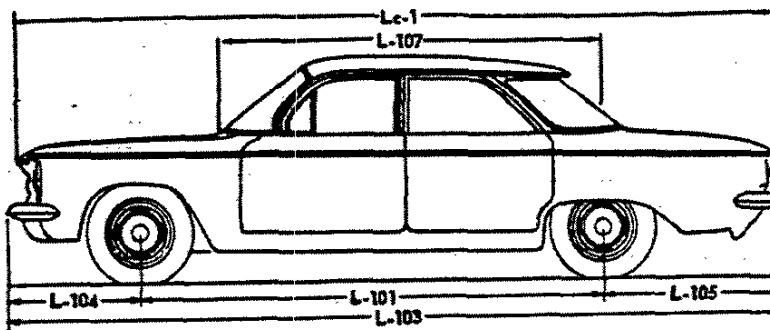
H-1	Headroom - front (depressed)		37.5		39.0
H-2	Headroom - rear (depressed)	35.5		37.0	39.5
H-3	Chair height - front		10.0		
H-8	Chair height - rear	9.5		11.5	13.0
H-11	Entrance room - front		29.0		29.5
H-12	Entrance room - rear			28.0	27.5
H-13	Steering wheel clearance		5.1		
H-201	Maximum load height - folding seat down				26.7
H-202	Rear opening height				25.6
H-250	Load floor to ground				26.18
Hc-1	Maximum height - luggage compartment		23.0		
Hc-2	Luggage compartment sill to floor		20.2		
Hc-3	Luggage compartment opening height - maximum		41.0		
Hc-4	Front seat back to load floor		9.3		
Hc-5	Stowage well height		10.5		
Hc-6	Rear seat back to stowage well floor		7.0		



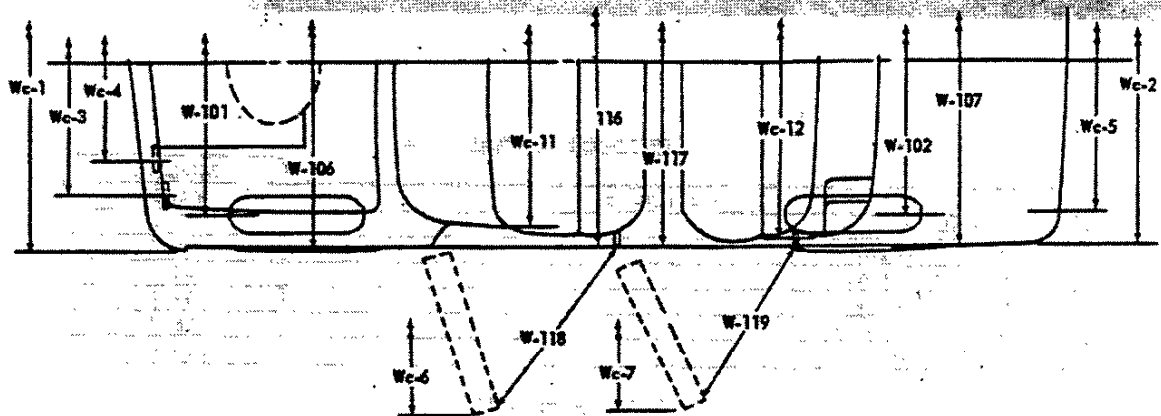
## EXTERIOR DIMENSIONS



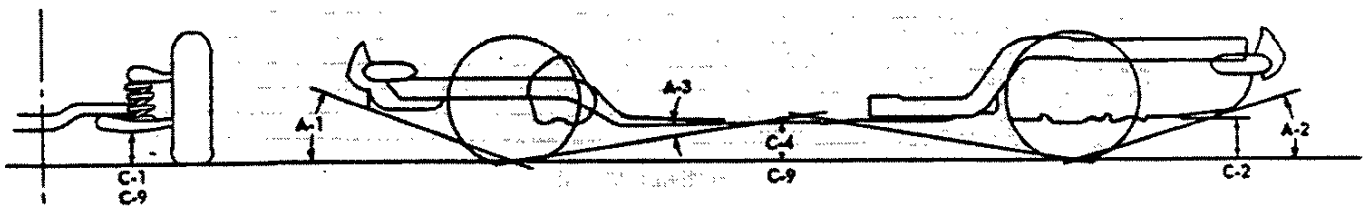
EXTERIOR HEIGHTS		MODELS •		
		527-727-927	569-769-969	535-735
H-101	Overall height - loaded	51.5		53.5
H-102	Front bumper bottom to ground		15.0	
H-104	Rear bumper bottom to ground	15.5		17.5
H-111	Rocker panel to ground - rear	7.5		8.5
H-112	Rocker panel to ground - front		8.0	
H-114	Hood at rear to ground		34.0	
H-115	Step height - front door - loaded		12.5	
H-116	Step height - rear door - loaded		12.5	
H-122	Windshield slope angle		52°	
H-125	Headlight centerline to ground - loaded		24.3	
H-126	Tail light centerline to ground - loaded	23.8		23.4
H-130	Step height - front door - unloaded		14.0	
H-131	Step height - rear door - unloaded		14.0	
H-132	Bottom of front door to ground - open	13.0	12.5	13.0
H-133	Bottom of front door to ground - closed	11.0		11.5
H-134	Bottom of rear door to ground - open		11.0	11.5
H-135	Bottom of rear door to ground - closed		11.0	11.5
Hc-1	Rear window slope angle		52°	27°
Hc-2	Windshield DLO height	13.1		14.3
Hc-3	Rear window DLO height	11.7	10.5	14.9
Hc-4	Front door opening height	33.0		33.8
Hc-5	Rear door opening height		33.1	34.2
Hc-6	Bottom of front fender at rear to ground		8.0	
Hc-7	Overall height - unloaded	53.0		55.0



EXTERIOR LENGTHS		
L-101	Wheelbase	108.0
L-103	Overall length - bumper to bumper	180.0
L-104	Overhang - front	30.3
L-105	Overhang - rear	41.7
L-107	Front of dash to $\text{C}$ of rear wheels	99.0
Lc-1	Overall length less bumpers	176.7



EXTERIOR WIDTHS				
Code	Description	MODELS *		
		527-727-927	569-769-969	535-735
W-101	Tread - front		54.0	
W-102	Tread - rear		54.0	
W-103	Overall width (maximum)		67.0	
W-106	Front fender width at C of wheel		67.0	
W-107	Rear fender width at C of wheel		66.0	
W-116	Maximum overall width of body		67.0	
W-117	Maximum body width at center pillar		66.0	
Wf-150	Maximum overall width with moldings		65.8	
Wc-1	Front bumper width		66.4	
Wc-2	Rear bumper width		62.5	
Wc-3	Outer headlight centers width		57.1	
Wc-4	Inner headlight centers width		41.6	
Wc-5	Tail light centers width		56.0	
Wc-6	Overall width, front doors open	145.4	130.1	
Wc-7	Overall width, rear doors open		124.1	
Wc-8	Opening width at beltline - front door	36.1	27.0	
Wc-9	Opening width below beltline - front door	43.6	33.9	
Wc-10	Opening width below beltline - rear door		31.1	
Wc-11	Windshield DLO width		54.5	
Wc-12	Rear window DLO width		54.5	47.5



GROUND CLEARANCES				
A-1	Angle of approach		27°	26°
A-2	Angle of departure		16°	19°
A-3	Ramp breakover angle		16°	18°
C-1	Front suspension to ground		6.5	
C-2	Oilpan to ground		6.1	7.8
C-4	Frame rail to ground		6.0	
C-9	Minimum ground clearance		6.0	

## GREENBRIER EXTERIOR - INTERIOR DIMENSIONS

### EXTERIOR LENGTHS

Description	MODEL
	R1206
Wheelbase	95.0
Overall length	179.7
Front overhang	44.1
Rear overhang	39.9
Load length @ belt	106.2
Load length @ floor	120.9

### EXTERIOR HEIGHTS

Overall height	68.5
Floor to ground	28.1
Front bumper height	22.4
Rear bumper height	19.5
Sill height	10.9
Angle of approach	22°
Angle of departure	20°
Minimum ground clearance	6.6

### EXTERIOR WIDTHS

Front tread	58.0
Rear tread	58.0
Overall width	70.0
Rear load door width	44.3

### INTERIOR LENGTHS

Luggage compartment @ belt rear compartment room	34.6
Front legroom	44.5
Rear legroom	37.8
Steering wheel to seat back	16.4
Front seat depth	17.3
Rear seat depth	17.3

### INTERIOR HEIGHTS

Front headroom (depressed)	39.7
Rear headroom (depressed)	42.6
Front entrance	31.5
Rear entrance	33.5
Steering wheel to seat cushion	6.8

### INTERIOR WIDTHS

Front shoulder room	59.5
Rear shoulder room	59.5
Front hip room	61.4
Rear hip room	61.6
Inside width @ belt	59.3

## VEHICLE WEIGHTS

### 500 SERIES

MODEL	VEHICLE TYPE	SHIPPING WEIGHT			CURB WEIGHT			LOADED WEIGHT		
		Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
527	2-Door Club Coupe 6-Cylinder	790	1530	2320	870	1535	2405	1190	1965	3155
527P		790	1535	2325	870	1540	2410	1190	1970	3160
569	4-Door Sedan 6-Cylinder	810	1545	2355	880	1560	2440	1225	2115	3340
569P		810	1550	2360	880	1565	2445	1225	2120	3345
535	4-Door Station Wagon 6-Cylinder	805	1725	2530	885	1730	2615	1220	2295	3515
535P		805	1730	2535	885	1735	2620	1220	2300	3520

### 700 SERIES

727	2-Door Club Coupe 6-Cylinder	800	1550	2350	880	1555	2435	1200	1985	3185
727P		800	1555	2355	880	1560	2440	1200	1990	3190
769	4-Door Sedan 6-Cylinder	815	1565	2380	890	1575	2465	1235	2130	3365
769P		815	1570	2385	890	1580	2470	1235	2135	3370
735	4-Door Station Wagon 6-Cylinder	810	1745	2555	895	1745	2640	1225	2315	3540
735P		810	1750	2560	895	1750	2645	1225	2320	3545

### 900 SERIES

927	2-Door Club Coupe 6-Cylinder	820	1575	2395	900	1585	2485	1120	1965	3085
927P		820	1580	2400	900	1590	2490	1120	1170	3090
969	4-Door Sedan 6-Cylinder	820	1600	2420	900	1605	2505	1235	2170	3405
969P		820	1605	2425	900	1610	2510	1235	2175	3410

### R1206 GREENBRIER

R1206	6-Door Sports Wagon 6-Cylinder	1170	1725	2895	1375	1740	3115	2125	2475	4600
R1206A		1170	1735	2905	1375	1750	3120	2125	2485	4610

A - Automatic  
P - Powerglide

**SHIPPING WEIGHT:** The weight of the basic vehicle with all regular equipment and with grease and oil where required. It does not include the weight of gasoline.

**CURB WEIGHT:** The weight of the empty vehicle ready to drive. It is the shipping weight plus the weight of gasoline. For the weight of gasoline add 86 pounds. (100 lbs. for Greenbrier)

**LOADED WEIGHT:** The curb weight of the basic vehicle plus a maximum of 150 pounds for each passenger.

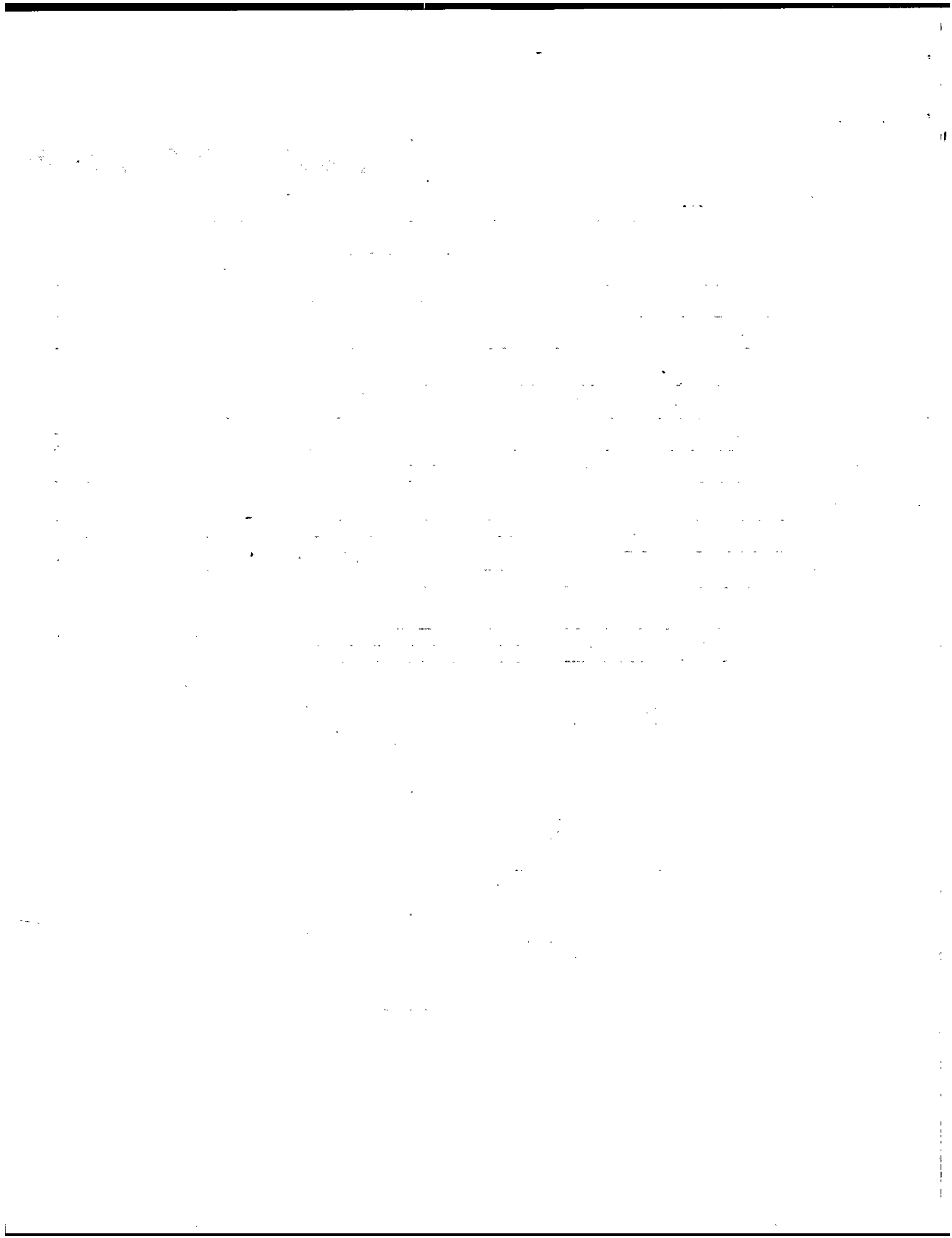
Example:

Model 569 (6-passengers)----- 2440+900=3340

**PERFORMANCE WEIGHT:** The curb weight of the lowest priced 4-door sedan with regular equipment plus 600 pounds for passengers.

Example:

Model 569 (4-passengers)----- 2440+600=3000



1961



# 1961 CHEVROLET CORVAIR INDEX

October 1960

1961

# INDEX

## 1961 CHEVROLET CORVAIR

### A

Accessories, Dealer Installed . . . . .	(Gen) 9
Accessories, Factory Installed . . . . .	(Gen) 8
Axle Ratios . . . . .	(Power Tr) 14
Axle Shaft . . . . .	(Power Tr) 14

### B

Back-up Lights . . . . .	(Chassis) 6
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## AMA Specifications – Passenger Car

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. Questions concerning these specifications should be directed to the manufacturer whose address is shown below. This uniform specification form was developed by the automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

<b>MANUFACTURER</b> Chevrolet Motor Division General Motors Corporation	<b>CAR NAME</b> Corvair	
<b>MAILING ADDRESS</b> Chevrolet Engineering Center Box 246, North End Station Detroit 2, Michigan	<b>MODEL YEAR</b> 1961	<b>ISSUED</b> 10-7-60 <b>REVISED (e)</b> 12-1-60

**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 the standard model without optional equipment. Significant deviations are noted.
  - b. Specifications apply basically to 4-door sedan or equivalent.
  - c. Nominal design dimensions are used throughout these specifications.

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### **BODY—TYPES AND STYLE NAMES—**

Body type, number of passenger & style names; use manufacturer's code for series & body style.

**500 Series**

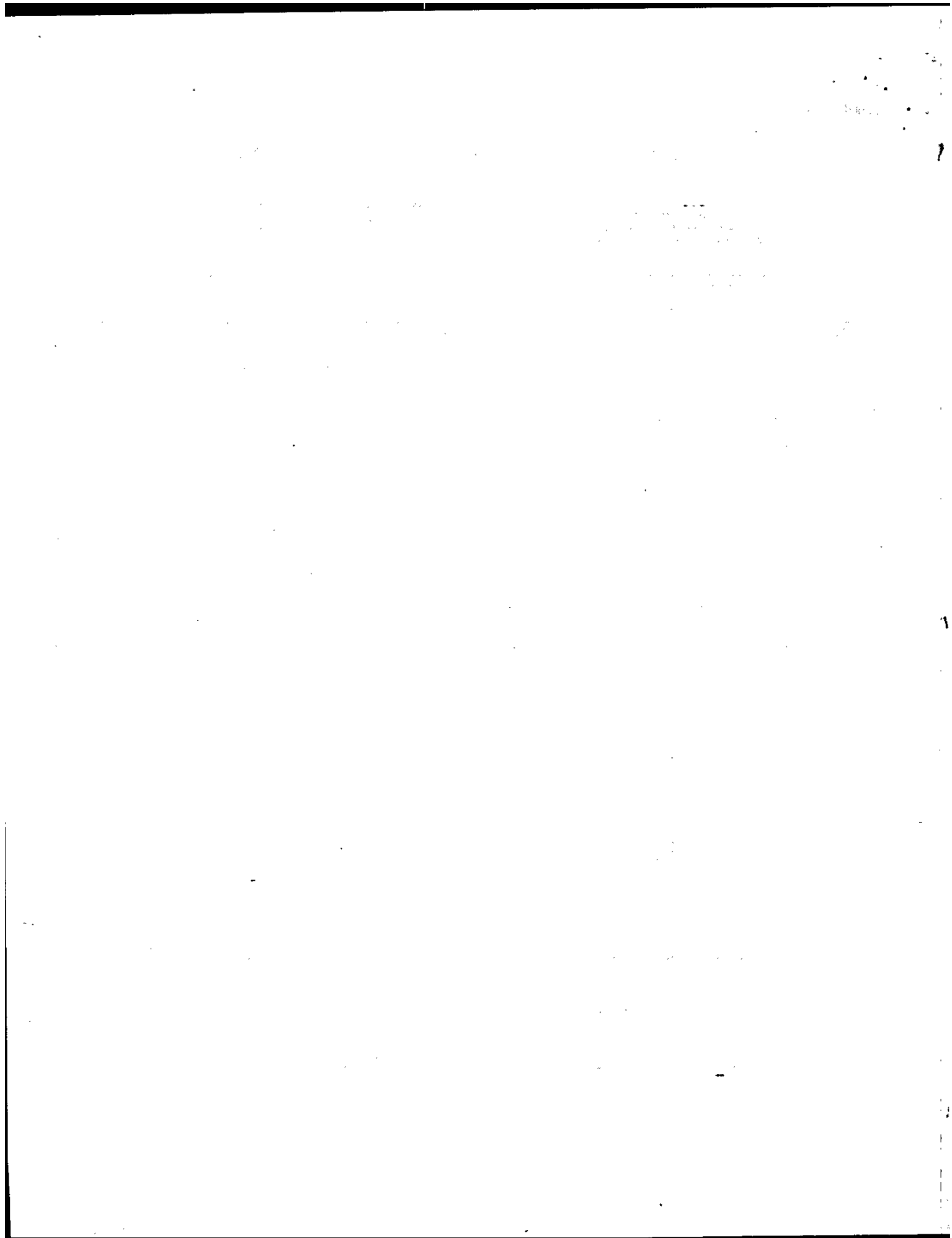
- |     |                                   |
|-----|-----------------------------------|
| 527 | 2-Door Club Coupe, 5-Passenger    |
| 535 | 4-Door Station Wagon, 6-Passenger |
| 569 | 4-Door Sedan, 6-Passenger         |

**700 Series**

- |     |                                   |
|-----|-----------------------------------|
| 727 | 2-Door Club Coupe, 5-Passenger    |
| 735 | 4-Door Station Wagon, 6-Passenger |
| 769 | 4-Door Sedan, 6-Passenger         |

**900 Series**

- |     |                                      |
|-----|--------------------------------------|
| 927 | 2-Door Monza Club Coupe, 4-Passenger |
| 969 | 4-Door Monza Sedan, 6-Passenger      |



# AMA Specifications — Passenger Car

Page 1

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## GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.	527 727	927	569 769 969	535 735
Wheelbase (L-101)	23	108.0			
Tread	Front (W-101)	24	54.0		
	Rear (W-102)	24	54.0		
Maximum Overall Dimensions	Length (L-103)	23	180.0		
	Width (W-103)	24	67.0		
	Height (H-101)	22	51.5	53.5	
Transmission— (Specify trade name - opt., not available)	Manual	13	3-speed (4-speed optional)		
	Overdrive	14	None		
	Automatic	14	Corvair Powerglide (optional)		
Axle ratio	Manual	15	3.27:1; 3.55:1 and 3.89:1 optional (a)		
	Overdrive	15	None		
	Automatic	15	3.27:1; 3.55:1 and 3.89:1 optional (a)		
Tire size	16	6.50 x 13-4 ply (7.00 x 13-4 ply on 535-735)			
Engine	Type, no. cyl., valve arr.	2	Horizontal opposed, 6 cyl, OHV, air-cooled		
	Fuel system (Carb., other)	6	Carburetor		
	Bore and stroke	2	3.4375 x 2.60		
	Piston displ., cu.in.	2	145		
	Std. compression ratio	2	8.0:1 (b) (c)		
	Max. bhp at engine rpm	2	80 @ 4400 - 98 @ 4600 (optional)		
	Max. torque at rpm	2	128 @ 2300 - 132 @ 3000 (optional)		

(a) - 3.55:1 on station wagon, 3.89:1 optional. See page 2A

(b) - 9.0:1 on 900 Monza models with Powerglide

(c) - 9.0:1 on Super Turbo-Air 98 HP engine

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# AMA Specifications—Passenger Car

MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED (a) 12-1-60

MODEL Corvair 500-700-900

## ENGINE—GENERAL

Type, no. cyls., valve arr.		Horizontal opposed, 6 cyl OHV
Bore and stroke (nominal)		3.4375 x 2.60
Piston displacement, cu. in.		145
Bore spacing (C/L to C/L)		4.85
No. system (front to rear)	L. Bank	6-4-2
	R. Bank	5-3-1
Firing order		1-4-5-2-3-6
Compres. ratio (nominal)		8.0:1 (a)
Cylinder Head Material		Cast aluminum
Cylinder Sleeve—Wet, dry, none		None
Number of mounting points	Front	Two
	Rear	One
Engine installation angle		2°33'
Taxable $\frac{Dia^2 \times No. Cyl.}{2.5}$ horsepower		28.4
Published max. bhp* @ eng. RPM		80 @ 4400
Published max. torque* (lb. ft. @ RPM)		98 @ 4600
Recommended fuel regular - premium		Regular (b) (c)
Idle speed (spec. neutral or drive)	Manual	500
	Automatic	500

## ENGINE—PISTONS

Material	Cast aluminum alloy
Description and finish	Slipper skirt, autothermic
Weight (piston only) oz.	14.61

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

(a) - 9.0:1 on 900 Monza models with Powerglide

(b) - Premium on 900 Monza with Powerglide

(c) - Premium on 98 HP engines

(Continued)

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# AMA Specifications – Passenger Car

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## POWER TEAMS

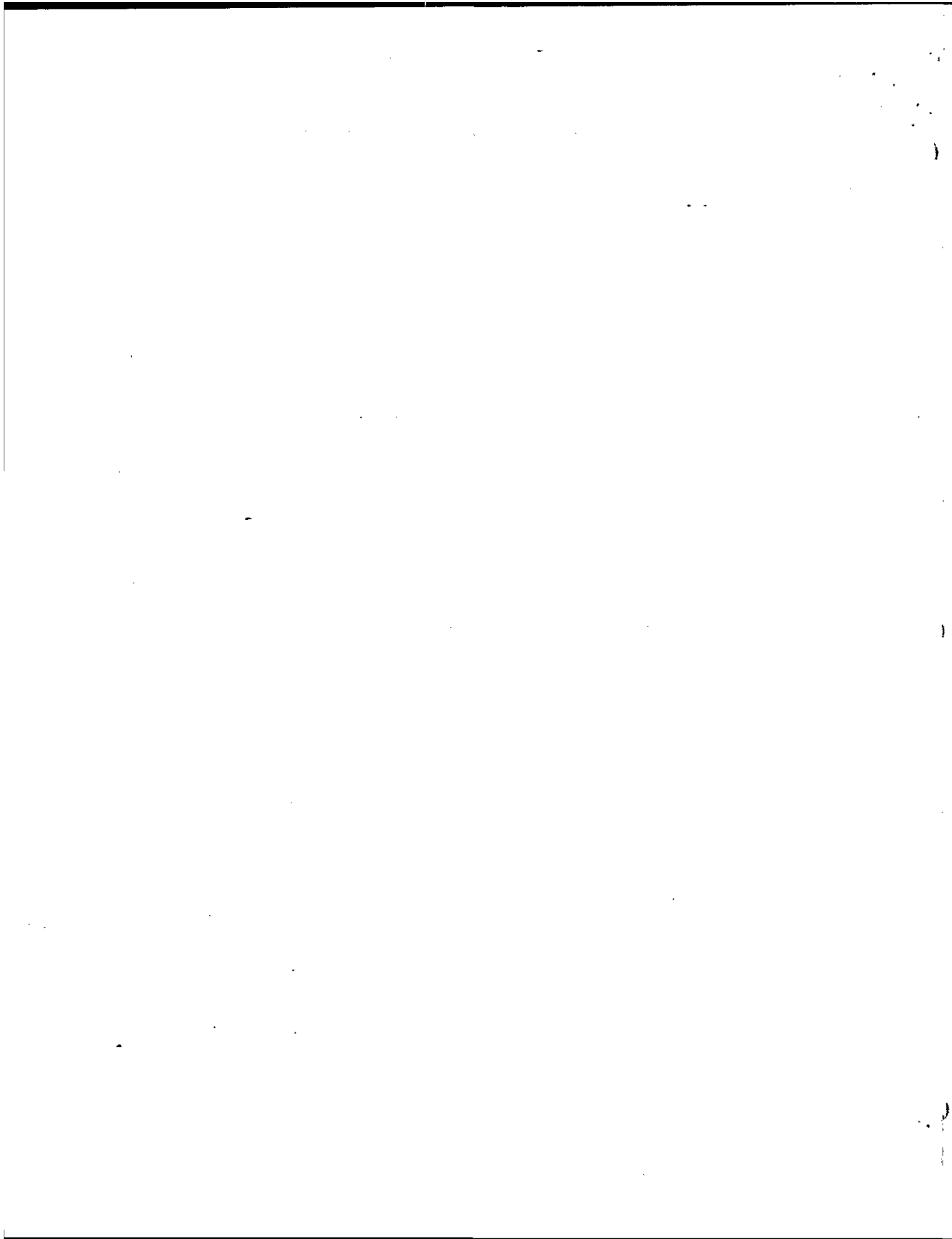
(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (a) (Std. first)	
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM			
Corvair 500-700-900	145	Two 1-bbl DD	8.0:1	80@ 4400	128@ 2300	3-Speed	3.27:1	<u>Optional</u> 3.55:1 3.89:1
						4-Speed	3.27:1	3.55:1 3.89:1
						Powerglide	3.27:1	3.55:1 3.89:1
	145	Two 1-bbl DD	9.0:1	98@ 4600 (*)	132@ 3000	3-Speed	3.27:1	3.55:1 3.89:1
						4-Speed	3.27:1	3.55:1 3.89:1
						Powerglide	3.55:1	None

(\*) - With special camshaft.

(a) - On station wagon models 535-735, 3.55:1 axle ratio standard; 3.89:1 optional.

(b) - On 900 models with Powerglide compression ratio is 9.0:1



# AMA Specifications - Passenger Car

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MODEL Corvaire 500-700-900

ENGINE PISTONS (Cont.)			Turbo-Air	Super Turbo-Air
Clearance (limits)	Top land		.022-.031	
	Skirt	Top	.0011-.0015 (a)	
		Bottom	None	
Ring groove depth	No. 1 ring		.193-.198	
	No. 2 ring		.193-.198	
	No. 3 ring		.194-.199	
	No. 4 ring		None	

ENGINE-RINGS			
Function (top to bottom)	No. 1, oil or comp.		Compression
	No. 2, oil or comp.		Compression
	No. 3, oil or comp.		Oil control
	No. 4, oil or comp.		None
Compression	Description - material, type, coating, etc.		Cast alloy iron - inside bevel or counter bore - wear resistant coating
	Width		.0770-.0780
	Gap		.010-.020
Oil	Description - material, type, coating, etc.		Cast alloy iron - single piece - not coated
	Width		.1860-.1865
	Gap		.010-.020
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.		Pressed in rod
	Bushing	In rod or piston	None
		Material	None
Clearance	In piston	.00015-.00025	
	In rod	None	
Direction & amount offset in piston		Major thrust side	

ENGINE-CONNECTING RODS			
Material		Drop forged steel	
Weight (oz.)		13.73	
Length (center to center)		4.719-4.721	
Bearing	Material & Type		Extra-life steel backed babbit - removable
	Overall length		.649
	Clearance (limits)		.0007-.0027
	End play		.005-.010
		Copper lead alloy	

(a) - Measured 2.20" from top of cylinder bores.



# AMA Specifications—Passenger Car

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

MODEL \_\_\_\_\_ Corvair 500-700-900

<b>ENGINE—CRANKSHAFT</b>			
Material	<b>Turbo-Air</b> Drop forged steel		
Vibration damper type	<b>None</b>		
End thrust taken by bearing (No.)	<b>#1 (at rear end of engine)</b>		
Crankshaft end play	<b>.002-.006</b>		
<b>Main bearing</b>	Material & type	<b>Extra-life, steel backed babbitt - removable</b>	
	Clearance	<b>.0012-.0037</b>	
	Journal dia. and bearing overall length	No. 1	<b>2.0983 x .785</b>
		No. 2	<b>2.0983 x .752</b>
		No. 3	<b>2.0988 x .752</b>
		No. 4	<b>2.0988 x .752</b>
		No. 5	<b>None</b>
		No. 6	<b>None</b>
No. 7		<b>None</b>	
Dir. & amt. cyl. offset	<b>None</b>		
Crankpin journal diameter	<b>1.799-1.800</b>		

**Super Turbo-Air**

## ENGINE—CAMSHAFT

Location	<b>Directly below crankshaft</b>		
Material	<b>Cast alloy iron</b>		
Bearings	Material	<b>No inserts, aluminum crankcase machined for bearing surfaces</b>	
	Number	<b>Four</b>	
Type of Drive	Gear or chain	<b>Gear</b>	
	Crankshaft gear or sprocket material	<b>Steel</b>	
	Camshaft gear or sprocket material	<b>Cast aluminum</b>	
	Timing chain.	No. of links	<b>None</b>
		Width	<b>None</b>
		Pitch	<b>None</b>

## ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)	<b>Standard</b>	
Valve rotator, type (intake, exhaust)	<b>None</b>	
Rocker ratio	<b>1.5:1</b>	
Operating tappet clearance (indicate hot or cold)	Intake	<b>Zero</b>
	Exhaust	<b>Zero</b>
Timing marks on flywheel, damper, other	<b>Crankshaft pulley</b>	

(Continued)

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# AMA Specifications—Passenger Car

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MODEL Corvair 500-700-900

ENGINE—VALVE SYSTEM (cont.)		Turbo-Air	Super Turbo-Air	
Timing	Intake	Opens (°BTC)	43	54
		Closes (°ABC)	93	118
		Duration - deg.	316	352
	Exhaust	Opens (°BSC)	87	90
		Closes (°ATC)	69	82
		Duration - deg.	336	352
Valve opening overlap		112	136	
Intake	Material		Alloy steel	
	Overall length		4.489-4.509	
	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		.3415-.3422	
	Stem to guide clearance		.0010-.0027	
	Lift		.314	.380
	Outer spring press. and length	Valve closed (lb. @ in.)	58-64 @ 1.508	69-79 @ 1.696
		Valve open (lb. @ in.)	141-149 @ 1.148	159-169 @ 1.306
	Inner spring press. and length	Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	
Exhaust	Material		High alloy steel	
	Overall length		4.494-4.514	
	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		.3410-.3417 (top); .3400-.3407 (bottom) - .0010 taper	
	Stem to guide clearance		.0015-.0032	
	Lift		.344	.380
	Outer spring press. and length	Valve closed (lb. @ in.)	58-64 @ 1.508	69-79 @ 1.696
		Valve open (lb. @ in.)	141-149 @ 1.148	159-169 @ 1.306
	Inner spring press. and length	Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	

## ENGINE—LUBRICATION SYSTEM

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

(Continued)

# AMA Specifications - Passenger Car

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MODEL Corvair 500-700-900

ENGINE-LUBRICATION SYSTEM (cont.)	Turbo-Air	Super Turbo-Air
Oil pump type	Gear	
Normal oil pressure (lb. @ engine rpm)	35 @ 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)	Min. - 32°F - SAE 30 Min. - 10°F - SAE 10W Below - 10°F - SAE 5W-20 Always use SAE 30 if daytime temperature is above 60°F	
Engine Service Requirement (MM, MS, etc.)	MS or DG	

## ENGINE-EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single with cross-over	
Muffler No. & type (reverse flow, straight thru, separate resonator)	One, Reverse flow, diffusion and resonance	
Exhaust pipe dia. (O.D.)	Branch	None
	Main	1.875 x .0897
Tail pipe diameter (O.D. & wall thickness)	Main	2.0 x .0897
	Branch	1.500 x .0897

## ENGINE-FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.		Carburetor	
Fuel Tank	Capacity (gals.)	14	
	Filler location	Left front fender crown	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	Upper rear of engine rear housing	
	Pressure range	5.25-6.50	
Vacuum booster (std., optional, none)		None	
Fuel Filter	Type	Strainer in gas tank and sintered bronze	
	Locations	In carburetor inlet	
Carburetor	Make & Model No.	Rochester Products ("H")	
		7019101 (Syn)	7019100 (PG)
		7019107 (spec cam)	
	Number of carbs., bbls. per carb. & type	Two (one for each cylinder bank), single barrel, downdraft	
	Barrel size	1.2495-1.2505	
	Choke type	Manual	
	Intake manifold heat control (exhaust or water)	Carburetors, manifolds and intake air warmed by recirculated engine cooling air	
Air clnr. type	Standard	Oil wetted (Two) Polyurethane element	
	Optional	None	

# AMA Specifications – Passenger Car

MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED \_\_\_\_\_  
 MODEL \_\_\_\_\_ Corvair 500-700-900

## ENGINE-COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		<b>Air, forced supply by centrifugal blower</b>	
Radiator cap relief valve pressure		<b>Not applicable</b>	
Circulation thermostat	Type (choke, bypass)	-	
	Starts to open at (°F)	-	
Water pump	Type (centrifugal, other)	-	
	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		<b>24, even</b>
	Diameter		<b>11.00</b>
	Ratio-fan to crankshaft rev.		<b>1.58:1</b>
	Fan cutout type		<b>None</b>
	Bearing type		<b>Sealed ball bearing</b>
*Drive belts (indicate belt used by letter)	Fan		<b>A</b>
	Generator		<b>A</b>
	Water Pump		<b>None</b>
	Power Steering		<b>None</b>
	Air Conditioning		<b>None</b>

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* Drive Belt Dimensions	<b>A</b>
Angle of V	<b>40°</b>
Nominal length (SAE)	<b>56.0 (a)</b>
Width	<b>.380 ± .005</b>

(a) - Pitch length.

# AMA Specifications -- Passenger Car

Supplement to Page 7

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

## SUPPLEMENTARY INFORMATION

MODEL Corvair 500-700-900

### ENGINE - COOLING SYSTEM

Type		Air cooled by 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	Steel
	Diameter	11.00
	Number of vanes	24
	Driven by	"V" belt
	Air flow	1850 cfm @ 4000 engine rpm
	Pulley (PD)	4.1875
	Ratio-fan to crankshaft	1.58:1
	Bearing type	Permanently lubricated ball bearing
Drive Belt	Type	"V"
	Pitch length	55.7
	Width	.380 ± .005
	Angle of "V"	40°
Air Thermo-stats	Function; number	Two; regulates rate of air flow
	Type	Bellows
	Location	Lower part of plenum under front cylinders
	Make	Harrison
Air Intake Type	Bellows start to open at	205° (approximately)
	Sedans and Coupes	Oval air duct running across front of engine compartment connecting air cleaner canisters. Single air intake horn extends upward and to rear over blower picking up clean warm air. Short flat wedged shaped ducts extend rearward from canisters to carburetors.
	Station Wagons	Same as sedans and coupes except crossover tube air intake horn is eliminated.

# AMA Specifications - Passenger Car

**MAKE OF CAR** Chevrolet **MODEL YEAR** 1961 **DATE ISSUED** 10-7-60 **REVISED** 12-1-60  
**MODEL** Corvair 500-700-900

## ELECTRICAL-SUPPLY SYSTEM

<b>Battery</b>	Make and Model		Delco- 1980456	
	Voltage Rtg. & Total Plates		12 volts - 42 plates (54 plate optional)	
	SAE Designation & Amp. Hr. Rtg		35 amp hr @ 20 hr rate (40 amp hr optional)	
	Location		Left side of engine compartment	
Terminal grounded		Negative		
<b>Generator</b>	Make		Delco-Remy	
	Model		1102227	
	Type		Two brush, shunt wound	
	Ratio-Gen. to Cr/s rev.		2.3:1	
	Gen. cut-in (hot)-engine rpm			
<b>Regulator</b>	Make		Delco-Remy	
	Model		1119001	
	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

<b>Starting motor</b>	Make		Delco-Remy	
	Model		1108306 (1108307 w/PG)	
	Rotation (drive end view)		Clockwise	
	Engine cranking speed		NA	
	Test conditions		Operating temperature	
	Lock test	Amps	NA	
		Volts	NA	
		Torque (lb. ft.)	NA	
	No load test	Amps	69	
		Volts	10.6	
RPM (min.)		7675		
<b>Motor control</b>	Switch (solenoid, manual)		Solenoid	
	Starting procedure		Transmission in neutral, clutch depressed with 3-speed or transmission in neutral with automatic transmission, pull knob on dash to set choke, turn ignition key to extreme right to engage starter. When engine fires release ignition key.	

# AMA Specifications - Passenger Car

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MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED: 12-9-60

MODEL Corvair 500-700-900  
Synchromesh Powerglide

## ELECTRICAL-STARTING SYSTEM (cont.)

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

## ELECTRICAL-IGNITION SYSTEM

Coil	Make		Delco-Remy		
	Model		1115135		
	Amps	Engine stopped	4.0		
Engine idling		1.8			
Distributor	Make		Delco-Remy		
	Model		1110258	1110259(b)	1110260
	Cent'gal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	400	1700	700
		Intermediate points deg. @ rpm	10.6 @ 1600	--	6.5 @ 1200
		Max deg. @ rpm	32 @ 3600	20 @ 3600	24 @ 4800
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	6.0	7.0	6.0
		Intermediate points, deg @ in Hg			
		Max. deg. in. Hg.	23 @ 15.2	23 @ 16.2	23 @ 15.2
	Breaker gap (in.)		.019		
	Cam angle (deg.)		32-34°		
Breaker arm tension (oz.)		19-23			
Timing	Crankshaft deg. @ rpm.		4° to 10° at idle	13° to 18° at idle	13° BTC @ idle
	Mark location:		Crankshaft pulley		
	Cylinder numbering system (see page 2)		Left bank 6-4-2 Right bank 5-3-1		
	Firing order (see page 2)		1-4-5-2-3-6		
Spark Plug	Make and model		AC 46-FF		
	Thread (mm)		14		
	Tightening torque (lb. ft.)		25		
	Gap		.035		
Cable	Conductor type		Linen core impregnated with electrical conducting material		
	Insulation type		Rubber with neoprene jacket		
	Spark plug protector		Neoprene, combining boot with shroud opening seal		

## ELECTRICAL-SUPPRESSION

Locations & type	Distributor to spark plug wires - non-metallic
------------------	--

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- (a) - .236-.260 with Powerglide transmission.
- (b) - On 900 Monza Models with Powerglide #1110275

# AMA Specifications - Passenger Car

MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED \_\_\_\_\_  
 MODEL \_\_\_\_\_ Corvair 500-700-900

## ELECTRICAL-INSTRUMENTS AND SWITCHES

Speedometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator-type		Tell-tale light
Temperature indicator-type		
Oil pressure indicator-type		Tell-tale light
Fuel indicator-type		Gauge
Other		
Ignition switch	Identify positions in order and circuits controlled	53° Counterclockwise from vertical - "Locked" 11° Counterclockwise from vertical - "Off" unlocked 30° Clockwise from vertical - "On" Ign., Batt., & Acc. 59° Clockwise from vertical - "Start", Ign., Batt., spring return to ign. & batt. position
	Provision for illumination	From instrument cluster
	Location	On instrument panel to right of steering column
Main lighting switch	Identify positions and lights controlled	Depressed - Off 1st notch - Instrument panel, parking, tail and license lights 2nd notch - Instrument panel, headlight, tail and license lights Rotate knob clockwise to dim and turn off instr. panel lights Rotate knob counterclockwise to turn on and brighten instr. panel lights and turn on dome light
Other light switches	Locations and lamps controlled	Toe panel ----- Headlight dimmer (a) Glove compartment ----- Glove compartment lamp (c) Front door hinge pillar ----- Dome lamp On strg gear jacket below instr panel --- Turn signal lamps Under instrument panel ----- Stop lamps (a) With transmission controls ----- Back up lamps
Other switches	Locations and devices controlled	Heater control (d) Windshield wiper Left side of instr. cluster ----- Trans. control safety and (d) back-up lamp  Oil pressure Left side of instr. cluster ----- Oil temperature
Windshield wiper	Make	Delco
	Type	Electric, single speed (2-speed optional) (a)
	Vacuum booster provision	None
	Washer provision	Push-button, dealer installed (a)
Horn	Type	Vibrator
	Number used	500: One (b); 700-900: Two
	Amp draw (each)	8.0-11.0 @ 12.5 volts

(a) - Available as factory option as part of FQA 120; also a dealer installed accessory, standard on 900 models.  
 (b) - High note horn optional  
 (c) - 700 and 900 models.



# AMA Specifications – Passenger Car

MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED \_\_\_\_\_  
 MODEL \_\_\_\_\_ Corvair 500-700-900

## ELECTRICAL—LAMP BULBS

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

Headlamps & arrangement	Dual, horizontal; 2-4001 inner, 2-4002 outer	
Headlamp beam indicator	1-53	
Parking	2-1034 (4 cp filaments)	
Tail	2-1034 (4 cp filaments)	
Stop	2-32 cp filaments of tail lamp bulbs	
Direction signal	Front	2-32 cp filaments of parking lamp bulbs
	Rear	2-32 cp filaments of tail lamp bulbs
	Indicator	2-57
License plate	1-67	
Instrument	2-1816	
Ignition lock	None	
Back up	2-1073 (32 cp)*	
Dome	1-211	
Clock	None	
Radio	1-1891*	
Glove compartment	1-57*	
Heater	1-53*	
Gen. Ind.	1-57	
Oil Press. Ind.	1-57	
Trans Selector		
Quadrant (auto)	1-53*	
Courtesy	2-89*	
Park Brake	1-53*	
Alarm		



# AMA Specifications – Passenger Car

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MODEL Corvaair 500-700-900

DRIVE UNITS—CLUTCH (Manual Transmission)		Turbo-Air	Super Turbo-Air
		3-Speed	4-Speed
Make & type		Chevrolet, single plate, dry plate	
Type pressure plate springs		Diaphragm	
Effective plate pressure (lb.)		900-1050	
No. of clutch driven discs		One	
Clutch facing	Material	Woven type asbestos	
	Outside & inside dia.	8.0 x 6.0	
	Total eff. area (sq.in.)	44	
	Thickness	.135	
	Engagement cushioning method	Spring	
Release bearing	Type & method of lubrication	Ball bearing, sealed	
Torsional damping	Methods: springs, friction material	None	

### DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	3-speed (std); 4-speed (opt)
Manual with overdrive (std. or opt.)	None
Automatic (std. or opt.)	Powerglide (opt)

### DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		Three	Four	
Transmission ratios	In first	3.50:1	3.65:1	
	In second	1.99:1	2.35:1	
	In third	1.00:1	1.44:1	
	In fourth	None	1.00:1	
	In reverse	3.97:1	3.66:1	
Synchronous meshing, specify gears		2nd and 3rd	1st, 2nd, 3rd, 4th	
Shift lever location		Floor		
Lubricant	Capacity (pt.)	1.9	3.3	
	Type recommended	Multi-purpose gear lubricant		
	SAE viscosity number	Summer	SAE-80	
		Winter	SAE-80	
Extreme cold		SAE-80		

# AMA Specifications - Passenger Car

MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED \_\_\_\_\_  
 MODEL \_\_\_\_\_ Corvair 500-700-900

## DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

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

## DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Corvair Powerglide		
Type describe	Torque converter with planetary gears		
Method of Selection (Lever, Push Button or other)	Lever		
Selector Pattern	L-D-N-R		
List gear ratios Selector Pattern and indicate which one used in each selector position	Drive	1.82:1 and 1.00:1 (a)	
	Low	1.82:1	
	Reverse	1.82:1	
Max. upshift speed—drive range	45		
Max. kickdown speed—drive range	40		
Torque converter	Number of elements		Three
	Max. ratio at stall		2.6:1
	Type of cooling (air, water)		Air
Lubricant	Capacity—refill (pt.)		6
	Type recommended		"A", suffix "A"
Special transmission features			

(a) - Total transmission torque multiplication - 4.73:1.

# AMA Specifications — Passenger Car

MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED (a) 12-1-60

MODEL Corvair 500-700-900

## DRIVE UNITS—PROPELLER SHAFT

Number used		None
Type (exposed, torque tube)		-
Outer diameter x length* x wall thickness	Manual transmission	-
	Overdrive transmission	-
	Automatic transmission	-
Inter-mediate bearing	Type (plain, anti-friction)	-
	Lubrication (fitting, prepack)	-
Make		-
Number used		-
Universal joints	Type (ball and trunion, cross, other)	
	Bearing	Type (plain, anti-friction)
		Lubric. (fitting, prepack)
Drive taken through (torque tube or arms, springs)		-
Torque taken through (torque tube or arms, springs)		-

## DRIVE UNITS—REAR AXLE

Description — (Incl. limited slip differential)		<b>Differential integral with engine and transmission driving rear wheels independently through "U" joints</b>	
Drive Pinion Offset		1.75	
No. of differential pinions		2	
Gear ratio and No. of teeth	Manual transmission		3.27:1 (11-36)(a); 3.55:1 (9-32); 3.89:1 (9-35)
	Overdrive transmission		None
	Automatic transmission		3.27:1 (11-36)(a); 3.55:1 (9-32); 3.89:1 (9-35)
Ring gear pitch diameter & O.D.		6.750; 6.791	
Pinion adjustment (shim, other)		Shim	
Pinion bearing adj. (shim, other)		None	
Wheel bearing type		Double row spherangular roller	
Lubricant	Capacity (pt.)		3.2
	Type recommended		Multi-purpose gear lubricant
	SAE viscosity number	Summer	SAE-80
		Winter	SAE-80
Extreme cold		SAE-80	

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

(a) - 3.27:1 ratio not available on station wagon models.

# AMA Specifications - Passenger Car

MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED (S) 12-1-60  
 MODEL Corvaair 500-700-900

## DRIVE UNITS—WHEELS

Type & material		Short spoke, full disk
Rim (size and flange type)		13 x 5.50 J
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.50
	Number and size	4, 7/16-20

## DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	6.50 x 13-4 ply (7.00 x 13-4 ply models 5-735)
	Type - Nylon, etc.	Rayon cord, blackwall
Rev./mile at 30 mph.		853 (833 - 7.00 x 13)
Inflation press.(cold)	Front	15 psi
	Rear	26 psi

## BRAKES—SERVICE

Type (duo-servo, balanced, self adjusting, etc.)		Duo-servo		
Power brake make & type (remote, integral, etc.)		None		
Effective area (sq. in.)*		120.8		
Gross lining area (sq. in.)**		120.8		
Swept drum area (sq. in.)***		197.8		
Percent brake effectiveness—front		46%		
Drum	Diameter	Front	9.0	
		Rear	9.0	
Type and material		Composite - cast alloy iron rim, pressed steel web		
Bonded or riveted		Bonded		
Brake lining	Front Shoe	Material	Full molded asbestos composition	
		Size (length x width x thickness)	Front wheel	7.85 x 1.75 x .160
			Rear wheel	7.85 x 1.75 x .160
	Segments per shoe	1		
	Rear Shoe	Material	Full molded asbestos composition	
		Size (length x width x thickness)	Front wheel	9.42 x 1.75 x .160
Rear wheel			9.42 x 1.75 x .160	
Segments per shoe	1			
Wheel cyl-inder bore	Front	.875		
	Rear	.9375		
Master cylinder bore		1.0		
Available pedal travel		5.75		
Line pressure at 100 lb. pedal load		840		
Shoe clearance adjustment		Adj. to heavy drag and back off 12 notches front, 16 notches rear		

\* 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.

# AMA Specifications—Passenger Car

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

MODEL \_\_\_\_\_ Corvair 500-700-900

## BRAKES—PARKING

Type of control		<u>Apply-hand lever; Release - integral hand lever</u>
Location of control		<u>Under instrument panel, left of steering column</u>
Operates on		<u>Rear service brakes</u>
If separate from service brakes	Type (Internal or external)	<u>None</u>
	Drum diameter	<u>None</u>
	Lining size (length x width x thickness)	<u>None</u>

## FRAME or UNITIZED CONSTRUCTION

Type and description	<u>Integral, with step-down underbody floor, front and rear side rail type members, and front and rear end sheet metal components welded to body assy.</u>
----------------------	--

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

Provision for car leveling		<u>None</u>
Provision for brake dip control		<u>Anti-dive geometry</u>
Provision for acc. squat control		<u>None</u>
Special provisions for car jacking		<u>Front - 8" back from front to front door opening Rear - 10" forward of rear wheel opening</u>
Shock absorber front & rear	Type	<u>Direct, double acting</u>
	Make	<u>Delco</u>
	Piston dia.	<u>1.00</u>
Other special features		

## SUSPENSION—FRONT

Type and description	<u>Independent, combining long and short control arms, with spherical joints, coil springs and anti-dive control</u>
----------------------	--

(Continued)

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

# AMA Specifications – Passenger Cars

**MAKE OF CAR** Chevrolet      **MODEL YEAR** 1961      **DATE ISSUED** 10-7-60      **REVISED**  
**MODEL** Corvair 500-700-900

## SUSPENSION FRONT (cont.)

<b>Spring</b>	Type	Coil
	Material	High alloy steel
	Size (coil design height & I.D.; bar length x dia.)	6.42 x 3.453 x 92.15 x .460
	Spring rate (lb. per in.)	168
	Rate at wheel (lb. per in.)	86
<b>Stabilizer</b>	Design load (lb. @ design height)	815 @ 6.42
	Type (link, linkless, frameless)	None
	Material & bar diameter	--

## STEERING

Mechanical (std., opt., NA)		Standard	
Power (std., opt., NA)		NA	
Wheel diameter		16.00	
<b>Turning diameter</b>	Outside front	Wall to wall (l. & r.)	41.3; 41.6
		Curb to curb (l. & r.)	39.0; 39.5
	Inside rear	Wall to wall (l. & r.)	24.2; 24.4
		Curb to curb (l. & r.)	24.6; 24.9
Outside wheel angle with inside wheel at 20°		18.03°	
<b>Mechanical</b>	<b>Gear</b>	Type	Recirculating ball with cast aluminum housing
		Make	Saginaw
		Ratios	Gear: 18.0:1 Overall: 23.5:1
	No. wheel turns	5.00	
<b>Power</b>	Type (axial, linkage, etc.)		None
	Make		--
	Trade name		--
	<b>Gear</b>	Type	--
		Ratios	Gear: -- Overall: --
		Pump driven by	
	Number wheel turns		--
	<b>Linkage</b>	Type	
Location (front or rear of wheels, other)		Front	
Drag link (trans. or longit.)		None	
Tie rods (one or two)		Two	

(Continued)



# AMA Specifications - Passenger Car

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

MODEL \_\_\_\_\_ Corvair 500-700-900

## STEERING (cont)

Steering Axis	Inclination of camber (deg.)		7°
	Bearings (type)	Upper	Spherical joint, non-metallic bearing liner
		Lower	Spherical joint, metallic bearing liner
	Thrust	None	
Wheel alignment (range and preferred)	Caster (deg.)		Design load: 3-1/2° <sup>+0°</sup> -1/2°; Curb load: 2° <sup>+0°</sup> -1/2°
	Camber (deg.)		Design or Curb load: 1/2° <sup>+</sup> -1/2°
	Toe-in (outside tread-inches)		Design load: 1/32 to 3/32; Curb load: 1/8 to 3/16
Steering spindle & joint type			Forged steel with integral brake cylinder mounting
Wheel spindle	Diameter	Inner bearing	1.0623-1.0618
		Outer bearing	.6868-.6873
	Thread size		11/16-24
	Bearing type		Tapered roller

## SUSPENSION—REAR

Type and description			Independent swing-type (a)	
Drive and torq. taken through (see page 15)			Drive - thru control arms; torque - thru chassis	
Spring	Type		Coil	
	Material		High alloy steel	
	Size (length x width, coil design height and I.D.; bar length & dia.)		7.45 x 3.453 x 101.82 x .610	
	Spring rate (lb. per in.)		425	
	Rate at wheel (lb. per in.)		117	
	Design load (lb. at design height)		1575 @ 7.45	
	Mounting insulation type		None	
	If leaf	No. of leaves		None
		Inserts	Type and size	--
Material			--	
Shockle (comp. or tens.)		--		
Stabilizer	Type (link, linkless, frameless)		None	
	Material		--	
Track bar type			--	

Wheel Camber (deg) Design load: 1°<sup>+</sup>-1/2° Neg; Curb load: 1-1/2°<sup>+</sup>-1/2° Pos  
 Align Toe-in (inches) Design or Curb load: 0 to 1/4

(a) - Combining hollow box-section type control arms, coil springs and shock absorbers.

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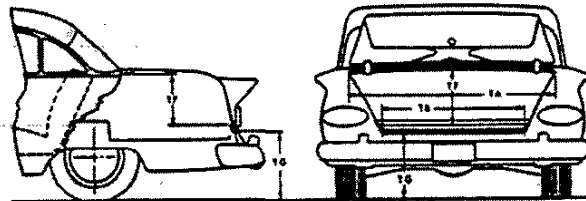
MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED 12-1-60

## BODY-GENERAL DEFINITIONS

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

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

## BODY-TRUNK DIMENSIONS



MODEL	527 727	927	569 769	969	535 735
Usable trunk luggage capacity (See Section E-1 of SAE Automotive Drawing Standards)		6.6			---
Total trunk volume in cu. ft. with spare tire in place		29.1 (a)			68.0 (b)
TA-Width across the top			49.5		
TB-Width across the bottom			49.5		
TF-Vertical dimension at C/L from bottom to top of opening			4.0		
TG-Vertical height from ground to trunk lower opening (normal surface of outside sheet metal - loaded)		28.5			26.2
Position of spare tire stowage		Horizontal inside engine compartment, right rear quarter panel			Vertical under hood
Method of holding lid open		Torsion Rod Counterbalanced			

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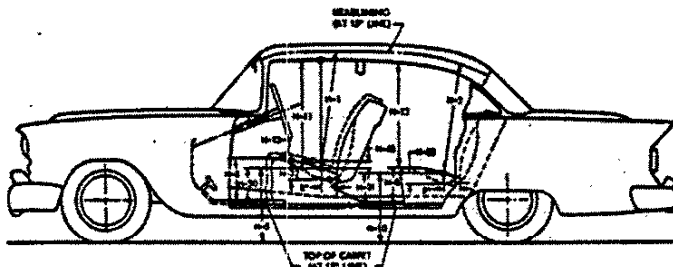
- (a) - Total with folding seat down; 12.6 cu ft - underhood; 3.2 cu ft - rear seat well  
 16.5 cu ft - rear seat down (including rear seat well)
- (b) - Total with rear seat down; 10.0 cu ft underhood  
 32.0 cu ft rear seat erect  
 58.0 cu ft rear seat folded

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## BODY—HEIGHT DIMENSIONS—INTERIOR



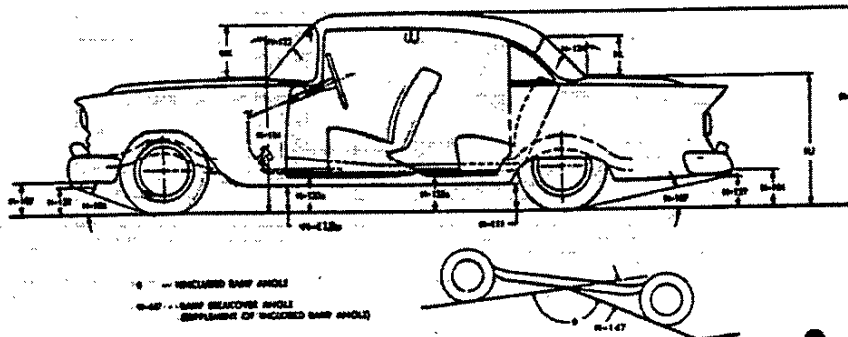
MODEL	527 727	927	569 769	969	535 735
H1. Front headroom. Free "A" pt. to headlining at 8° back of vertical. (For "A" pt. see note 3, page 20)	33.5				35.0
H2. Rear headroom. Free "A" pt. to headlining at 8° back of vertical	32.0		33.5		35.5
H3. Front cushion height above floor carpet at front edge of cushion. (Ignore risers)	10.0				
H5. Free "A" pt. to ground, front. Measured vertically	17.5				
H8. Rear cushion height above floor carpet at front edge of cushion. (Ignore risers)	9.5		11.5		13.0
H10. Free "A" point to ground rear. Measured vertically	15.5		16.5		18.0
H11. Entrance, front. Free "A" point to bottom of windcord, vertical	29.0				29.5
H12. Entrance, rear. Top of cushion to bottom of windcord at front edge of rear seat	--	--	28.0		27.5
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance)	5.1				
H30. Free "A" point reference height, front. Vertical dimension to SAE horizontal reference line	8.0				
H31. Free "A" point reference height, rear. Vertical dimension to SAE horizontal reference line	9.5		10.0		11.5
H32. Front seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	4.0				
H33. Rear seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	3.5				4.0
H45. Front seat maximum vertical rise at free "A" point	.5				

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MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED 12-1-60

## BODY—HEIGHT DIMENSIONS—EXTERIOR



NOTE: For dimensions to lamps see page 12.

MODEL	527 727	927	569 769	969	535 735
H101. Overall height, full design load		51.5			53.5
H102. Overall height, curb weight		53.0			55.0
H102. Front bumper bottom to ground at normal section, min. height			15.0		
H104. Rear bumper bottom to ground at normal section, min. height		15.5			17.5
H106. Angle of approach. To interfering point on bumper, guard, other		27°			26°
H107. Angle of departure. To interfering point on bumper, guard, other		16°			19°
H111. Body Sill to Ground-Rear. Vertical dimension measured from bottom of body sill (rocker panel), excluding any flanges, to ground at front of rear wheel opening.		7.5			8.5
H112a. Body Sill to Ground-Front. Measured vertically at foremost point of body sill (rocker panel), excluding flanges and front fender.			8.0		
H114. Hood at rear to ground. Vertical dimension C/L, excluding molding, at hood opening line at cowl			34.0		
H122. Windshield normal slope angle to vertical line on car C/L			52°		
H124. Backlight normal slope angle to vertical line on car C/L		52°			27°
H128. Bottom of front bumper guard to ground			13.9		
H129. Bottom of rear bumper guard to ground		14.4			16.4
H133a. Bottom of front door to ground, min. dimension		11.0			11.5
H135a. Bottom of rear door to ground, min. dimension	--	--	11.0		11.5
H147. Ramp breakover angle		16°			18°
H153. Min. road clearance at rear axle			6.4		
H156. Min. road clearance and location			6.0		
HJ. Deck at rear window to ground		35.0			--
HK. Windshield DLO*. Vertical height at C/L		13.1			14.3
HL. Back light DLO*. Vertical height at C/L		11.7		10.5	14.9

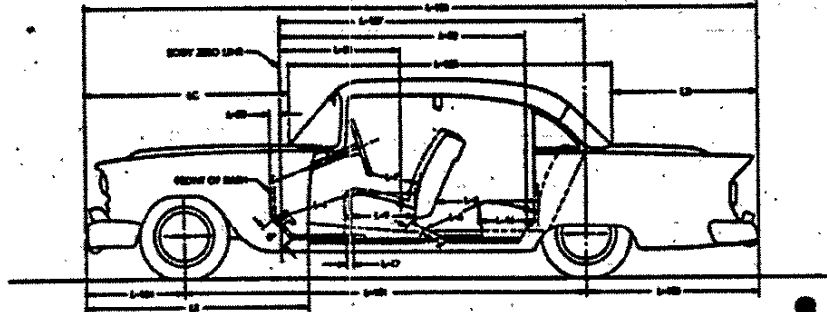
\* See Note, page 20

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# AMA Specifications—Passenger Car

MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE: ISSUED 10-7-60 REVISED 12-1-60

## BODY—LENGTH DIMENSIONS



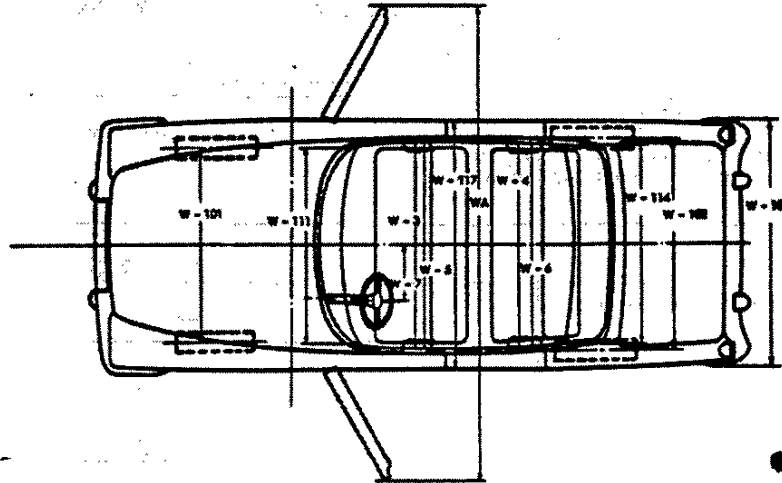
MODEL	527 727	927	569 769	969	535 735	
Interior	L3. Rear compartment room. Back of front seat back to front of rear seat back		22.5		25.5	24.5
	L4. Leg room, front. Ball of foot to top of seat to seat back		44.0	43.0	44.0	
	L5. Leg room, rear. Ball of foot to top of seat to seat back		31.5	31.0	36.5	
	L7. Steering wheel clearance to seat back taken on arc		15.0	14.5	15.0	
	L9. Front seat depth. Front edge to vert. tan. of seat back		17.5			
	L16. Rear seat depth. Front edge to vert. tan. of seat back		13.5		17.5	17.0
	L17. Maximum "A" point horizontal travel with normal seat adjustment		4.0			
	L30. Vertical body zero line to actual front of dash. Measured horizontally*		.58			
	L31. Vertical body zero line to free "A" point, front		41.3	40.8	41.3	
	L32. Vertical body zero line to free "A" point, rear		69.5		72.9	71.7
Exterior	L101. Wheelbase		108.0			
	L103. Overall length. Incl. bumper guards if standard equipment		180.0			
	L104. Overhang, front. Include bumper guards if stand. eq.		30.3			
	L105. Overhang, rear. Include bumper guards if stand. eq.		41.7			
	L123a. Body upper structure length at C/L, excl. molding		83.6	93.0		119.3
	L127. Vertical body zero line to centerline of rear wheels		99.0			
	LC. Front of car to base windshield, excl. molding		50.0			
	LD. Rear of car to base of rear window or upper structure, excl. molding		46.4		37.0	20.7
LE. Front of car to front edge of front door		53.5				

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

# AMA Specifications—Passenger Car

MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED 6-12-1-61

## BODY—WIDTH DIMENSIONS



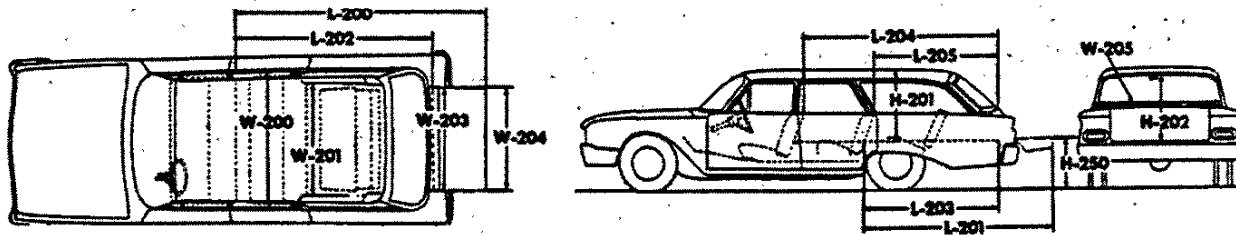
MODEL	527 727	927	569 769	969	535 735
Interior	W3. Front shoulder room, at garnish molding height or nearest interference 5" forward of seat back		54.0		
	W4. Rear shoulder room, at garnish molding height or nearest interference 5" forward of seat back		52.0	53.5	
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back		58.5		
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back		57.0	58.0	
	W7. Steering wheel center (on surface plane of wheel) to C/L of body		14.0		
Exterior	W101. Front tread at ground		54.0		
	W102. Rear tread at ground		54.0		
	W103. Max. overall width of car incl. bumpers or moldings (specify location).		67.0		
	WA. Max. overall width of car with doors open (2 & 4 door)		145.4	130.1	
	W111. Windshield DLO, max. width		54.9		
	W114. Back window DLO, max. width		52.4	53.7	47.5
	W116a. Maximum overall sheet metal width excl. hardware and applied molding (specify location)		67.0		
W117. Max. body width at center pillar, less hardware and applied moldings		66.0			

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MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE: ISSUED 10-7-60 REVISED(\*) 12-1-60

## STATION WAGON—CARGO SPACE DIMENSIONS



NOTE: Front seat in full down and normal rear position for all measurements. Lengths and heights measured at car centerline.

MODEL	535-735
L200 Floor length from back of front seat at floor level to end of lowered tail gate	79.4
L201 Floor length from back of second seat at floor level to end of lowered tail gate	49.5
L202 Floor length from back of front seat at floor level to inside of closed tail gate	77.2
L203 Floor length from back of second seat at floor level to inside of closed tail gate	47.2
L204 Minimum horizontal distance from top rear of front seat back to inside of top of tail gate	70.0
L205 Minimum horizontal distance from top rear of second seat back to inside of top tail gate	38.5
W200a Maximum width of cargo space at floor, specify location	56.9
W201 Minimum distance between wheel houses at floor level	38.9
W203 Rear end opening width at floor	46.4
W204 Rear end opening width at top of tail gate	49.7
W205 Maximum width of rear opening above raised tail gate	49.3
H201 Maximum height, floor covering to headlining at centerline of rear axle	26.7
H202 Maximum height of rear opening, tail and lift gates open	25.6
H250 Platform height measured from ground to top of tail gate floor covering at rear most edge of tail gate, curb weight	27.0
Third Seat, facing direction	None
Tail and lift gates or sliding glass	Hinged liftgate with fixed window
Cargo volume index (cu. ft.) W4 (P. 24) X L204 X H201 1728	68.0 (a)

(a) - Includes 10.0 cu ft in front compartment.

Form Rev. 6-60

# AMA Specifications - Passenger Car

MAKE OF CAR	Chevrolet	MODEL YEAR	1961	DATE ISSUED	10-7-60	REVISED (6)	12-1-6
MODEL	527	727	927	●	569969	535	735

## BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front		
	Rear doors	Front		
Type of finish (lacquer, enamel, other)		Acrylic lacquer		
Hood hinge location (front, rear)		Rear		
Hood counterbalanced (yes, no)		Yes		
Hood release control (internal, external)		External key lock		
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 ign lock term, key removable in "lock" or "on" pos		
Vent window control method (crank, friction pivot)	Front	Pivot		
	Rear	None		
Seat cushion type	Front	Polyurethane with zigzag springs		
	Rear	Cotton - jute with zigzag springs		
Seat back type	Front	Cotton - zigzag springs		
	Rear	Cotton - zigzag springs		
Windshield type (single curved, compound curved, other)		Single, compound curved		
Rear window type (flat, curved, one piece, three piece)		One-piece curved		
Side glass type (curved, flat)		Flat		
Side glass exposed surface area	1015.7	1027.2	1154.7	2371.3
Windshield glass exposed surface area		1122.8		1205.8
Backlight glass exposed surface area		1069.2	1104.2	663.3
Total glass exposed surface area	3207.7	3219.2	3381.7	4240.4





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