

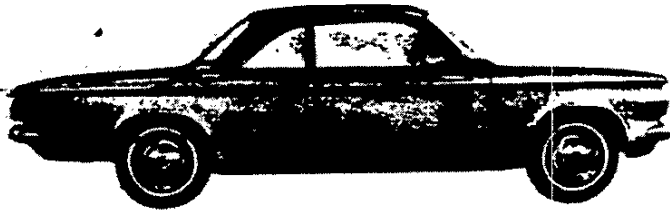
CORVAIR GENERAL



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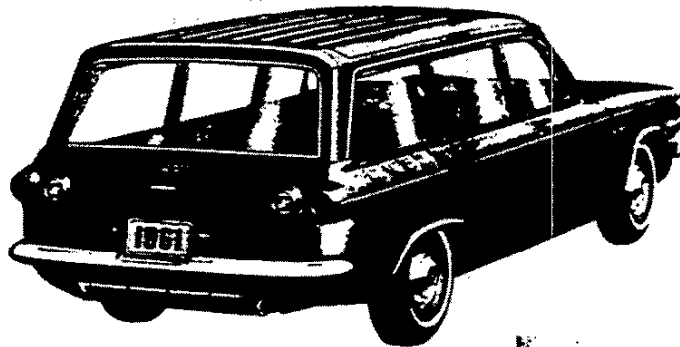
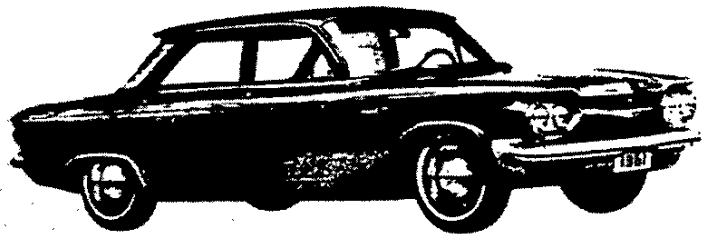
FOR COMPLETE SPECIFICATIONS
ON GREENBRIER SPORTS WAGON,
SEE 1961 CHEVROLET TRUCK SPEC-
IFICATIONS.

MODEL IDENTIFICATION



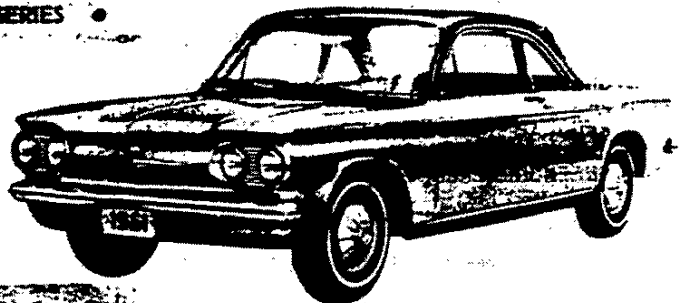
MODEL 527 2-DOOR CLUB COUPE, 5-PASSENGER
MODEL 535 4-DOOR STATION WAGON, 6-PASSENGER
MODEL 569 4-DOOR SEDAN, 6-PASSENGER

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

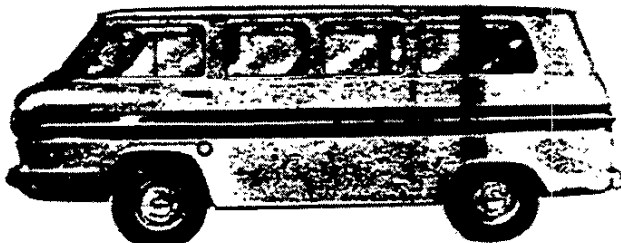


900 SERIES

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



1200 SERIES



MODEL R1206 6-DOOR SPORTS WAGON, 6-PASSENGER

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.

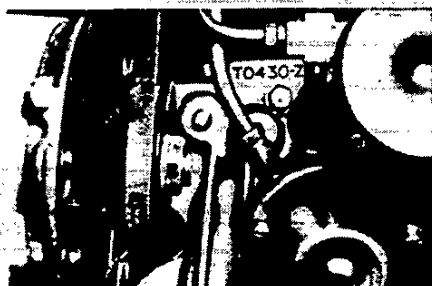
ASSEMBLY PLANTS

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)	



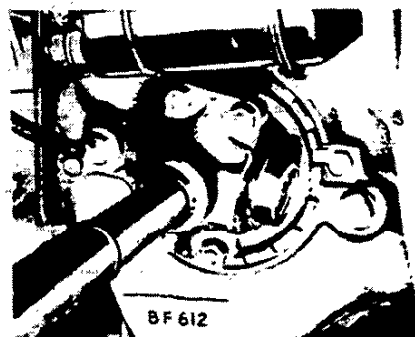
Location ----- Stamped on top rear surface, left half of crankcase.

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.



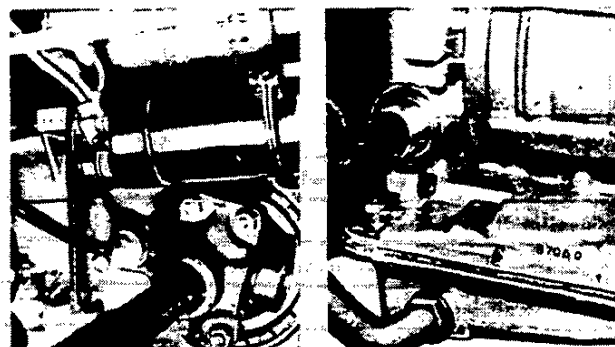
Location ----- Number stamped on lower left side of casting.

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		
			Liftgate reveal		735
			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	
Bright Metal Trims	Anodized Aluminum	Dual Headlamp Frames	R1206	
		Dual Parking and Directional Signal Light Frames		
		Front Air Inlet Grille		
		Front Air Inlet Grille Ornament		
	Chrome Plated	Push-Button Door Handles		
		Key Locks, All Doors		
		Front Door Nameplates (Greenbrier)		
	Stainless Steel	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				
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				
Painted Areas	Front and Rear Bumpers			
	Hub Caps			
	Ventipane Frames			
Outside rear view mirror				

REGULAR EQUIPMENT-INTERIOR

ITEM			MODELS	
Instrument Panel	Cluster Area	Dual directional signals	All	
		Fuel indicator		
		Speedometer		
		High beam indicator		
		Bright Control Knobs		Light Windshield wiper Cigarette lighter
		Cigarette lighter cover plate		900
		Ignition switch (4-positions)		500-700
		Oil and generator warning lights		All
		Anodized aluminum trim plate		900
		Bright trim plate molding		
	Ash tray	All		
	Radio speaker grille			
	Dual vent control knobs			
	Garnish molding	735		
	Glove Box	Painted door	500	
		Anodized aluminum trim plate	700-900	
		Nameplate (Corvair 700 or Monza)		
		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 ventipanes				
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)		927		
Rear quarter and rear door armrest ash tray		900		
Anodized aluminum seat end panels		927		
Coat hooks		700-900		
Front door jamb switch, dome lamp		All		
Left hand sunshade				
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				

500-700-900 SERIES

1965 CORVAIL

ALL EQUIPMENT CORVAIL

GREENBRIER REGULAR EQUIPMENT - INTERIOR

ITEM		MODEL	
Instrument Panel	Cluster Area	Dual Directional Signal Lights	
		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		R1206	
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	5-727, 5-769
Air Conditioning		114	All except station wagons
Bucket Front Seat (included in Trim Options 704, 744, 746, 768, 784, 797)		—	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 Red Cove 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		
	Cigar Lighter		
	Amidex Dispatch Box Trim Plate		
	Spare Tire Cover		
	Rear Dome Lamp		
Vinyl Coated Rubber Floor Covering	645		
Vinyl Trim Pads (Doors and Sidewalls)			
Body Side Door Equipment		647	
7.00-14-4 ply Tire, Whitewall		648	
7.00-14-6 ply Tire, Blackwall		650	
35 Ampere Generator		652	
Four-Speed Transmission		667	
Automatic Transmission		674	
7.00-14-6 ply Tire, Whitewall		213	
Heavy-Duty Front Shock Absorber			

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	
Campster 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	R1206
Screen, Side Door	
Sleeper Unit	
Sunshade, R. H.	
Table, Dining	
Tent and Breezeway Unit	
Tool Kit	
Underseat 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.

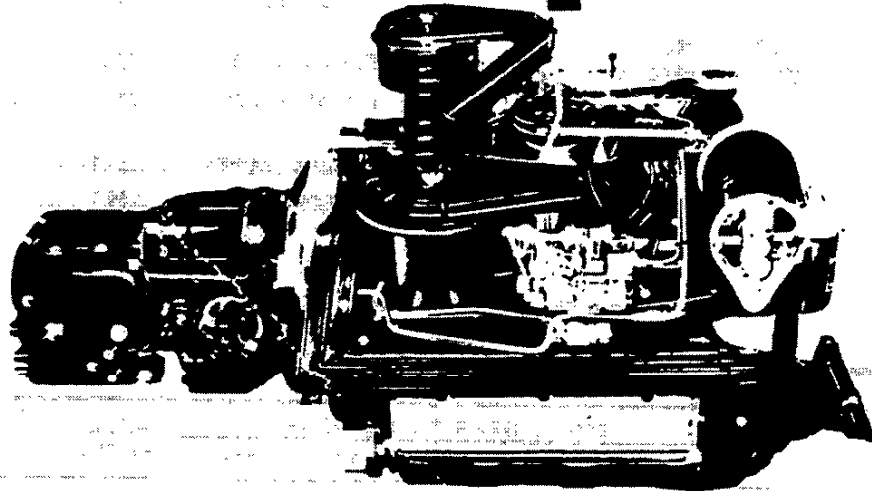
Switch ----- Forward door in passenger
compartment on R. H. side of standard models, and
by both R. H. and L. H. forward doors when optional
L. H. doors are used.

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 is a list of names and addresses of the members of the committee. The names are listed in alphabetical order, and the addresses are listed below each name. The list includes the names of the members of the committee, the names of the members of the subcommittee, and the names of the members of the advisory committee. The addresses are listed in the same order as the names.

POWER TRAINS



POWER TEAM COMBINATIONS	2
ENGINE	3
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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 HP 6-CYLINDER	3-SPEED	SEDAN & COUPES 3.27:1	3.55:1
		STATION WAGON 3.55:1	3.89:1
	4-SPEED	SEDAN & COUPES 3.27:1	3.55:1
		STATION WAGON 3.55:1	3.89:1
	POWERGLIDE	SEDAN & COUPES 3.27:1	3.55:1
		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
		STATION WAGON 3.55:1	3.89:1
	4-SPEED	SEDAN & COUPES 3.27:1	3.55:1
		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 ⁺ 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 (RPM)		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)		
	Sedans and coupes	20.72	
	Station wagon	17.93	

- (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					
Transmission	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

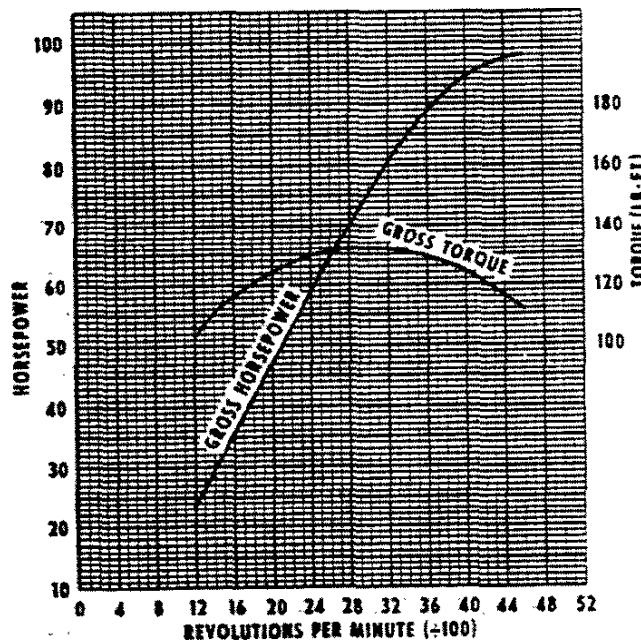
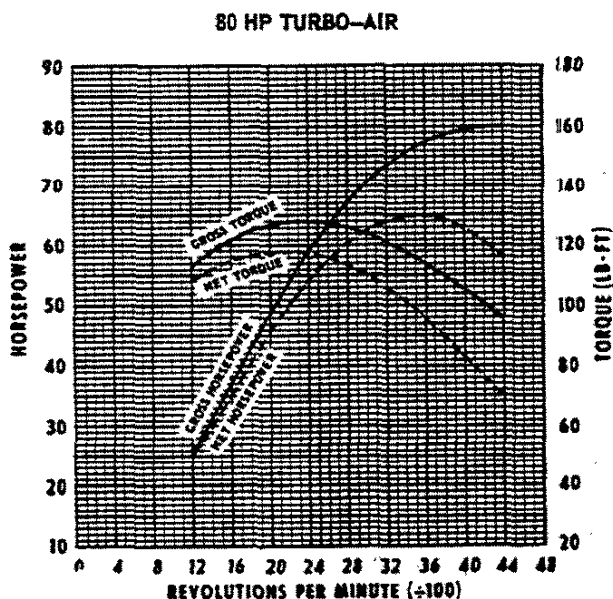
GLOSSARY

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



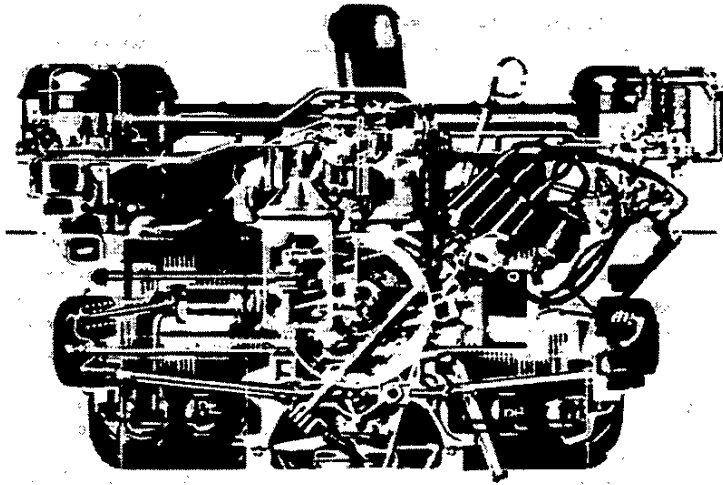
The engine performance curves represent full throttle performance as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and standard temperature of 60°F.

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

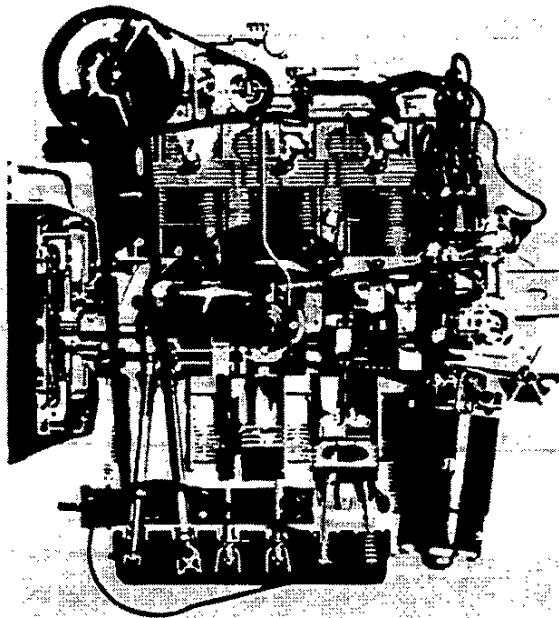
system, no fan, generator not charging, optimum spark advance, and optimum fuel setting.

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

Dimensions

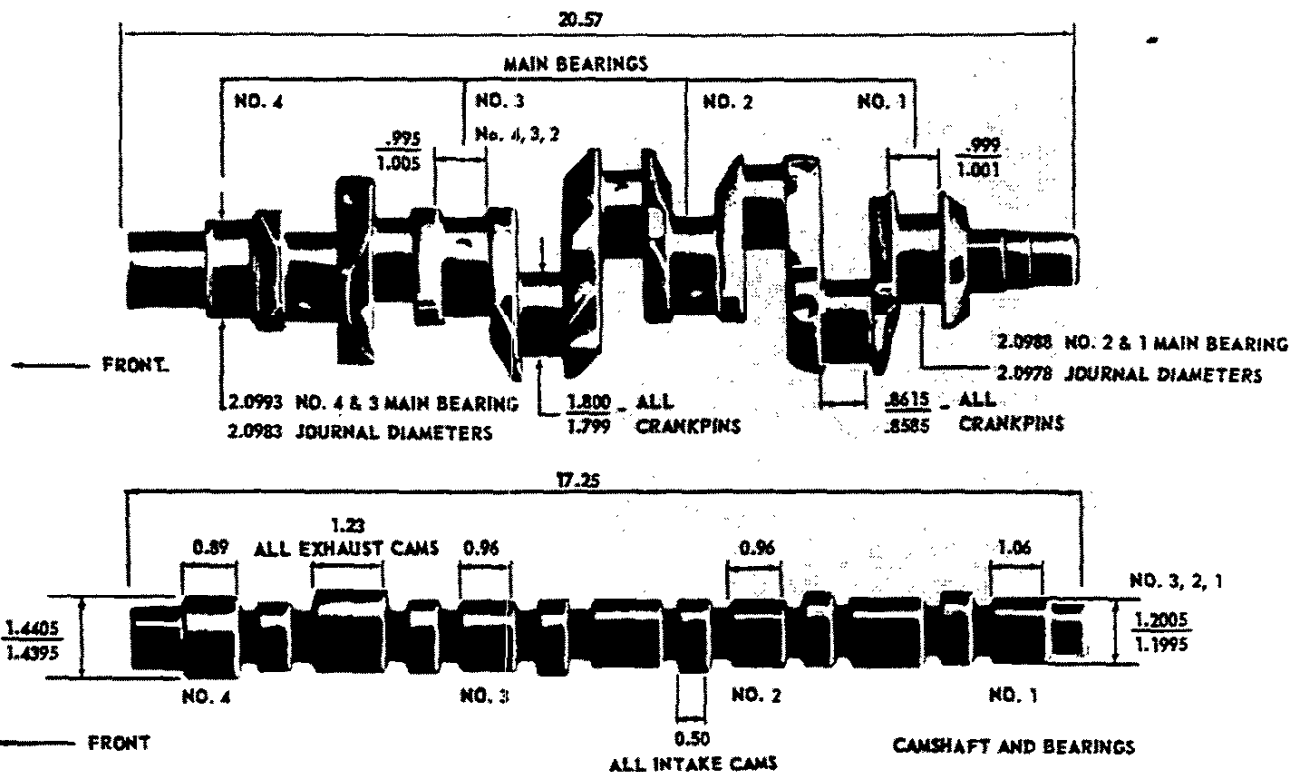
Bearings	Theo ID	Eff Length	Proj Area
1	2.1008	.785	1.649
2	2.1008	.752	1.580
3-4	2.1013	.752	1.580

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

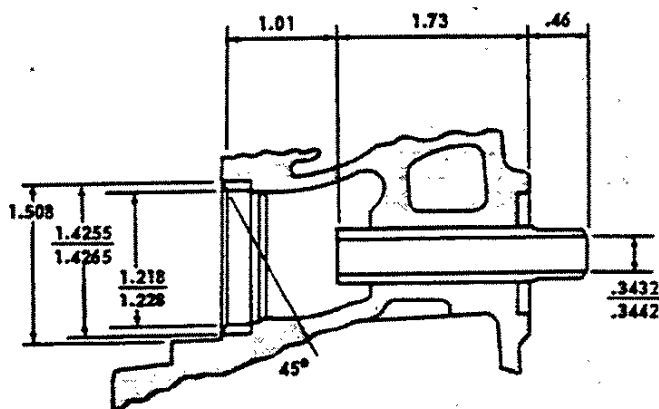
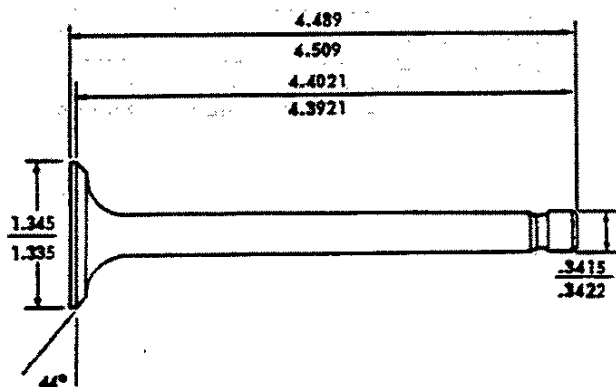
Compressed Length & Pressure (In@Lb)		
Camshaft	Production	Special
Valves closed	1.508@58-64	1.696@69-79
Valves opened	1.148@141-149	1.306@159-169
Free Length	1.74	2.08

VALVE TIMING

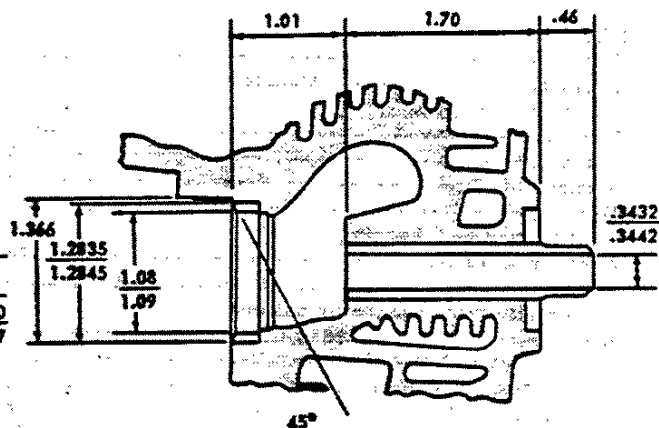
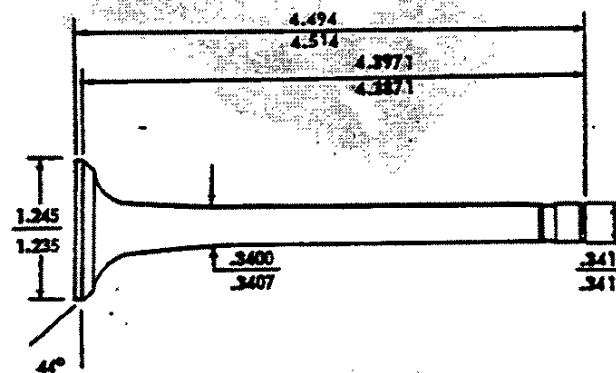
Camshaft	Production	Special (a)
Inlet opens - °BTC	43	54
Closes - °ABC	93	118
Exhaust opens - °BEC	87	90
Closes - °ATC	69	82
Inlet tappet lift	.20926	.25186
Exhaust	.22935	.25186
Ramp opening	.0056, 14°	.0036, 9°
Closing	.0070, 28°	.0070, 28°
Inlet valve lift	.314	.380
Exhaust	.344	.380

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

INLET



EXHAUST



• Revised February 1961

October 1960

1961 CHEVROLET CORVAIR

POWER TRAINS - 7

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 Clearance022-.031
 Skirt Clearance0011-.0015
 Compression Ring Groove Depth193-.198
 Oil Control Ring Groove Depth194-.199

PISTON PINS

Type Pressed in rod
 Material Alloy steel
 Length 2.630-2.650
 Diameter7999-.8002
 Clearance00015-.00025
 Direction of Offset Major thrust side

COMPRESSION RINGS

Type Tapered face
 Material Cast iron alloy
 Coating Wear resistant
 Width0770-.0780
 Wall thickness162-.172
 Gap010-.020

OIL CONTROL RINGS

Type Single-piece
 Material Cast alloy iron
 Coating None
 Width1860-.1865
 Wall Thickness143-.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 play005-.010
 Clearance0007-.0027
 Effective length649
 Theoretical ID 1.8012
 Projected area 1.169
 Super Turbo-Air -----Premium, copper-lead alloy

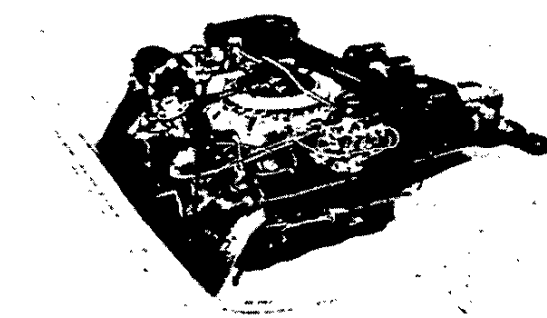
COOLING SYSTEM

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

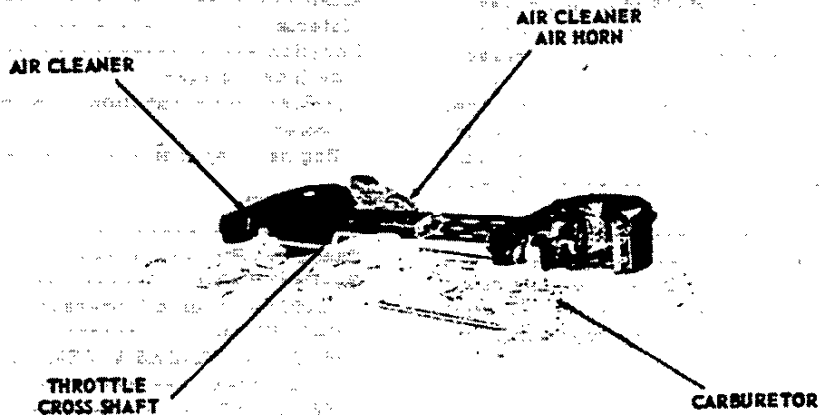
Type Centrifugal
 Location Mounted horizontally on top center of engine.
 Material Steel
 Diameter 11.00
 Number of Vanes 24
 Bearing Sealed, permanently lubricated ball bearing
 Number of Vanes 24
 Drive By "V" belt from crankshaft over idler and generator pulleys
 Air Flow 1850 CFM @ 4000 engine RPM
 Blower Pulley PD 4.1875
 Ratio (blower to engine speed) 1.58:1
 Idler Pulley PD 3.32
 Belt "V"
 Pitch length 56
 Width3801-.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 -----

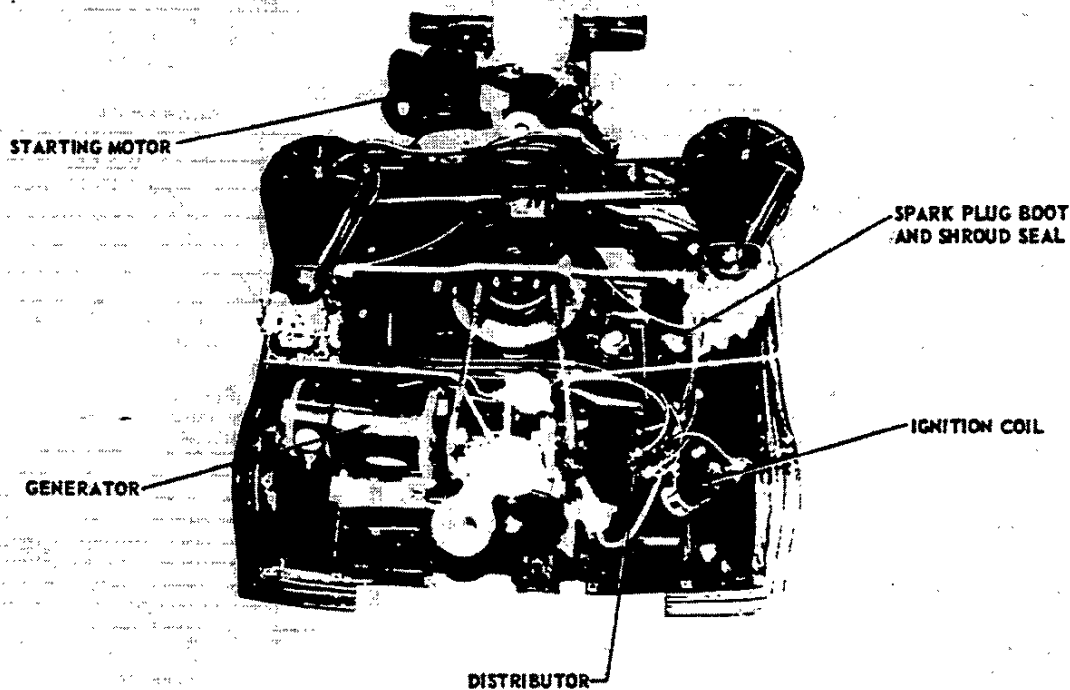
----- 16.3:1

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 $\pm$ 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

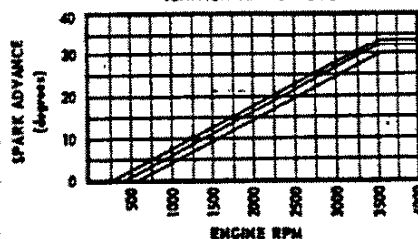
SPARK PLUGS

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

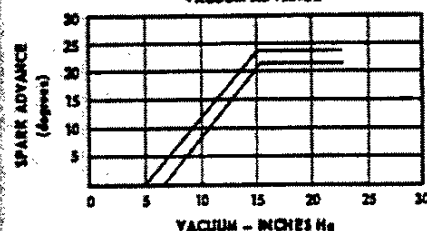
COIL

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

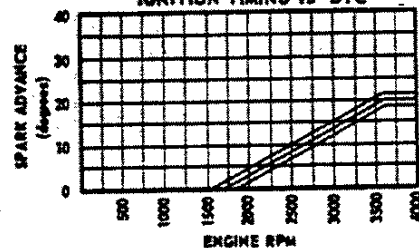
TURBO-AIR ENGINE
(Synchromesh)
CENTRIFUGAL ADVANCE
IGNITION TIMING 4° BTC



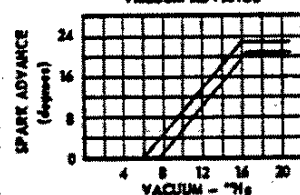
VACUUM ADVANCE



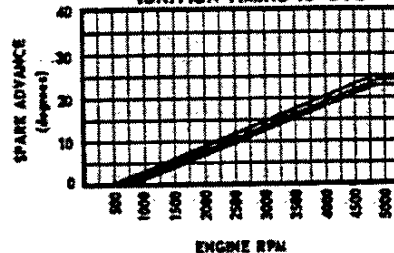
(Powerglide)
CENTRIFUGAL ADVANCE
IGNITION TIMING 13° BTC

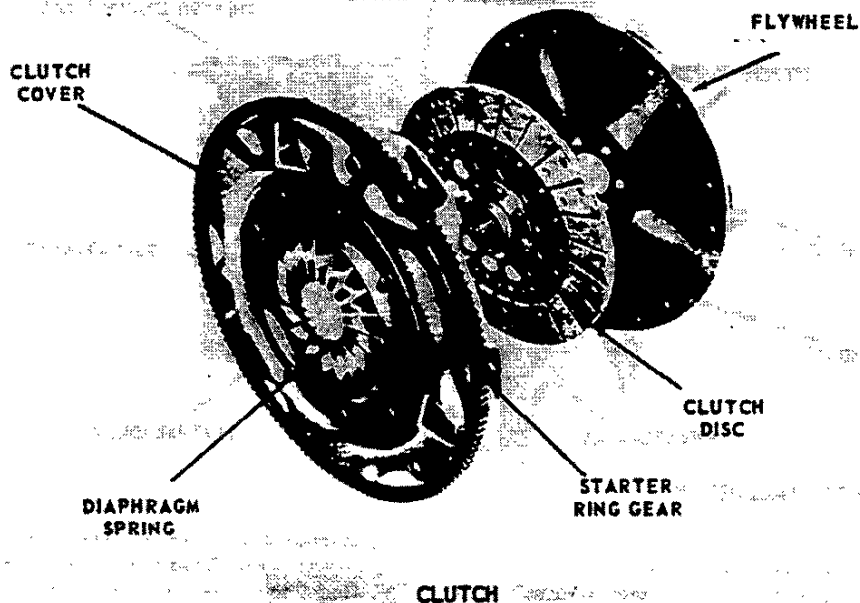


VACUUM ADVANCE



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

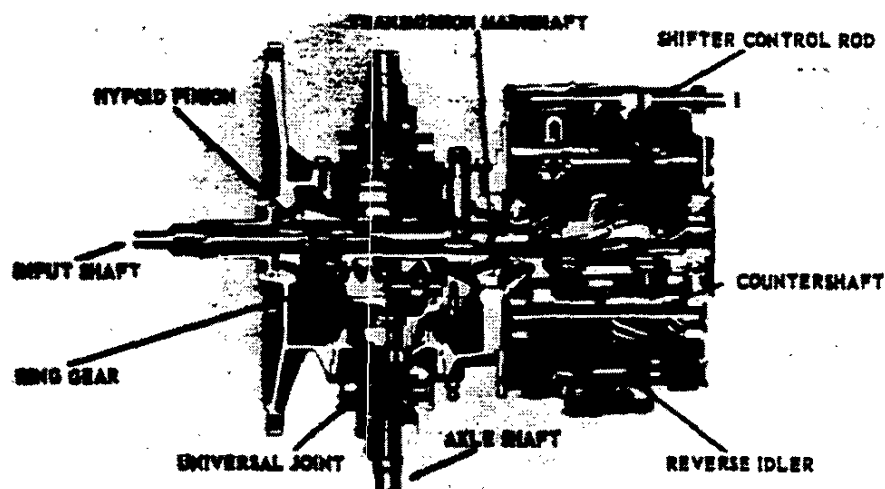
CONTROLS

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 in-
dependently through U-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
Diameter6710-.6720

DRIVE DATA

Rear Axle Ratio	3.27:1	3.55:1	3.89:1
Hypolid 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

Revised 1960 Revised February 1961
SAE NUMBER 940000

1961 CHEVROLET CORVAIR

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

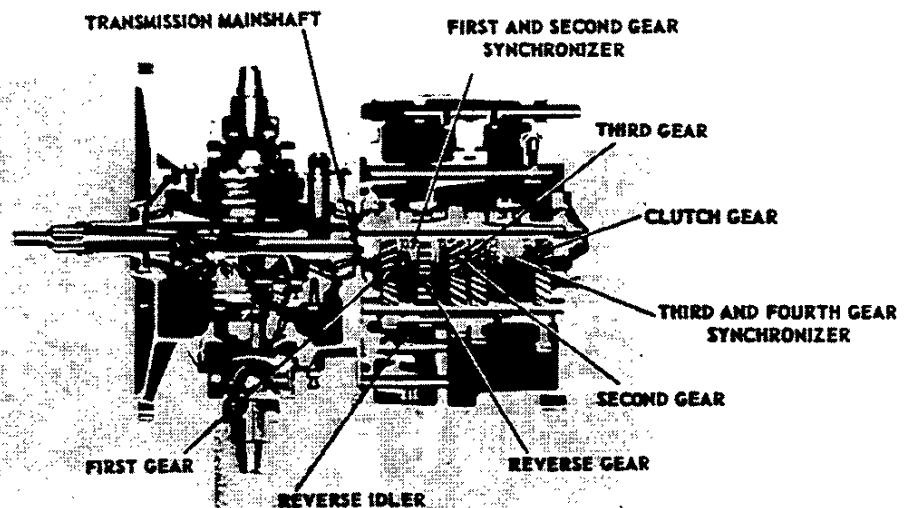
Control Remote
 Location Floor mounted
 Type Lever with
 shift pattern etched in knob.

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	Upshift	Downshift
Pedal Position		
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

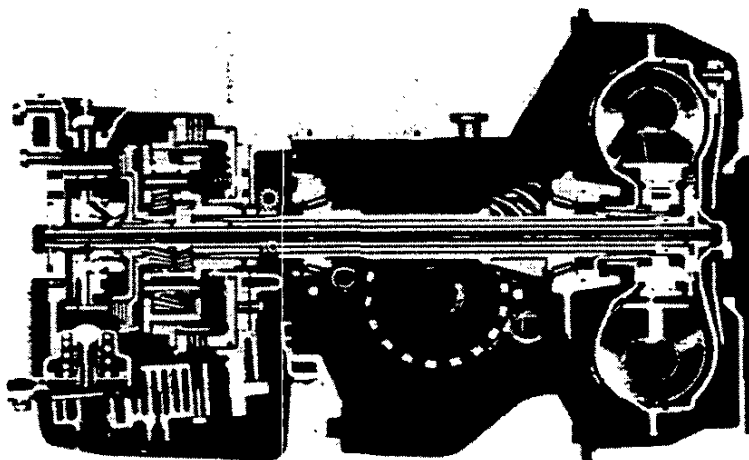
Cruising range ----- 1:1 (direct drive)

Low range ----- 1.82:1

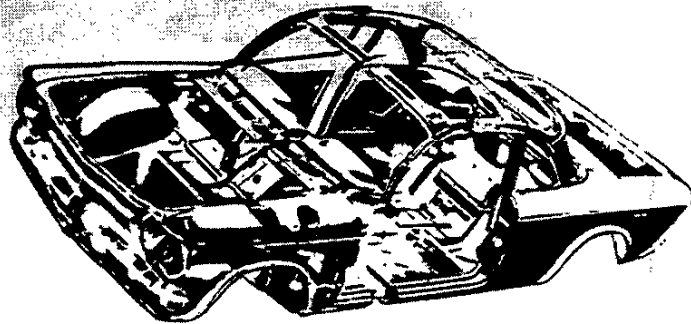
Reverse ----- 1.82:1

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.....

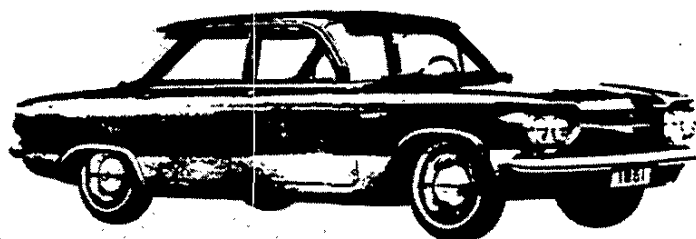
SEAT PADDING

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

October 1960

BODY-1

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				Green	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			Medium Green	
Seafoam Green		Green		Medium Turquoise	
Arbor Green	Seafoam Green			Gray	
Seamist Turquoise		Gray		Dark Gray	
Twilight Turquoise	Seamist Turquoise				
	Ermine White				
Coronna Cream					
Honduras Maroon					

* - 700 Series only.

** - 500 Series only.

STAFFORD TUCKER, INC.
1961 CHEVROLET CORVAIR

October 1960
BODY-3

EXTERIOR - INTERIOR COLOR COMBINATIONS

EXTERIOR-INTERIOR COLOR COMBINATIONS CORVAIR MONZA

EXTERIOR	INTERIOR		
BODY AND WHEELS	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.

October 1960 • Revised February 1961
4-BODY

1961 CHEVROLET CORVAIR

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	BUMPERS AND HUB CAPS**	FABRICS**	PAINT**
Jet Black	Cameo White	Cameo White		
Cameo White	Cardinal Red			
Pure White	—	Pure White		
Cardinal Red	Cameo White	Cameo White	Silver and Charcoal	Silver and Charcoal
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		
Rear Quarter Window	Roll Down			259.2				259.2
	Fixed	247.7				940.2		
Back Window	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.

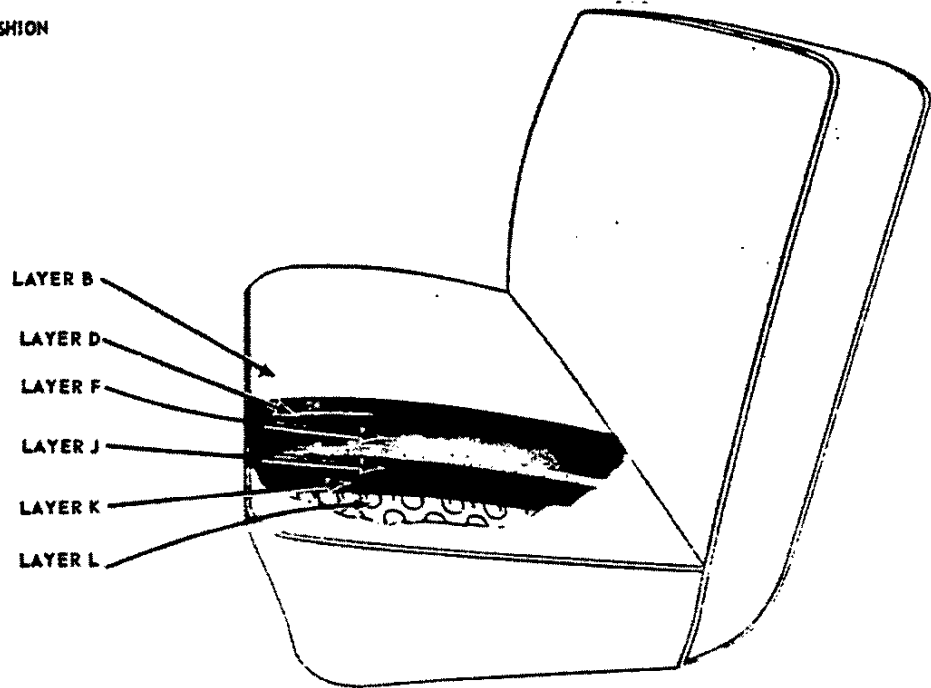
• LUGGAGE CAPACITIES

LOCATION	Overall (Cu Ft)		Luggage Set (Cu Ft)	
	527-727-927 569-769-969	535-735	527-727-927 569-769-969	535-735
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.

1900

1901

1902

1903

1904

1905

1906

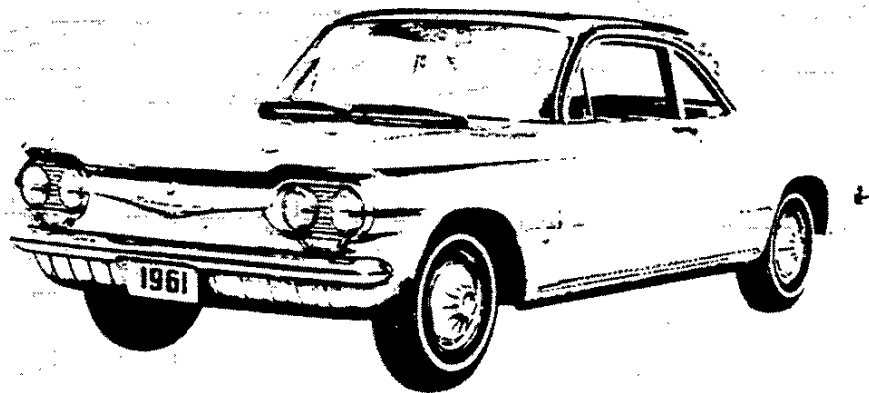
1907

1908

1909

1910

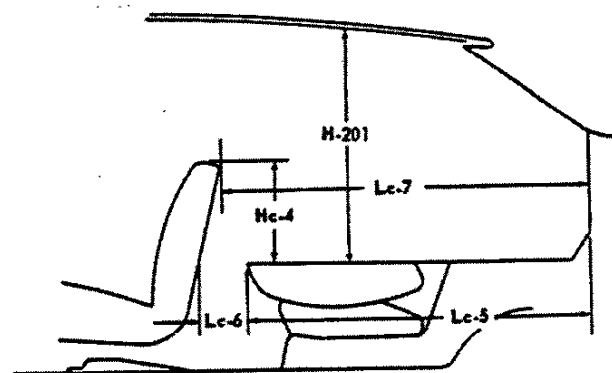
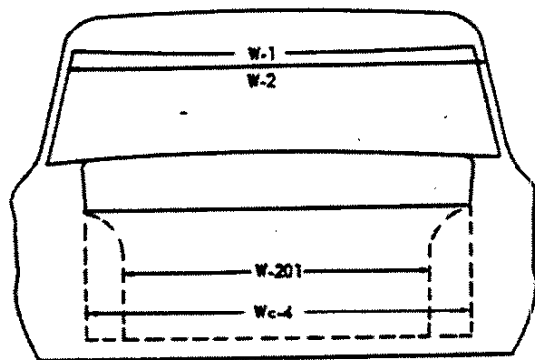
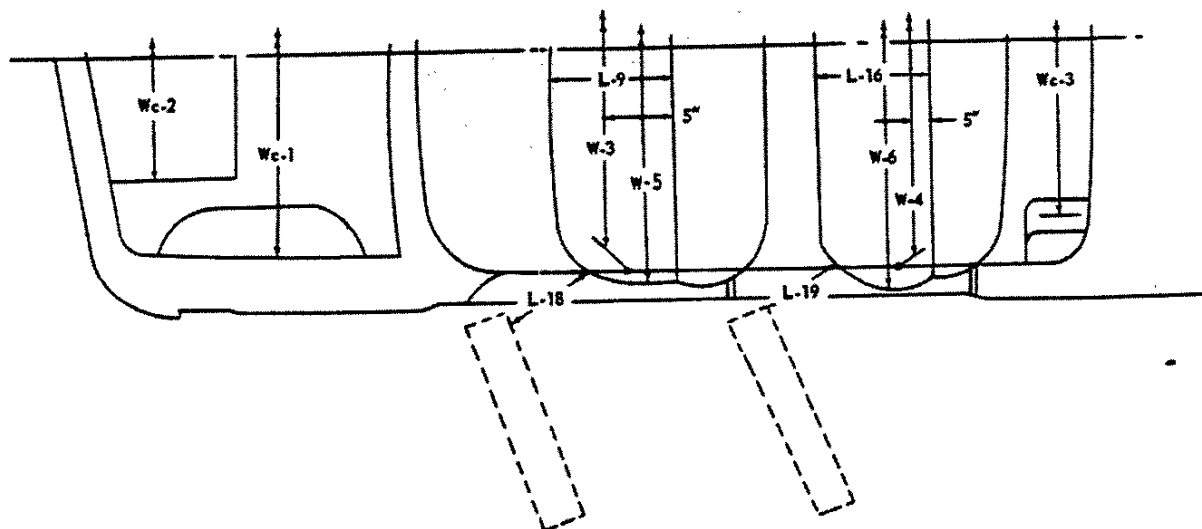
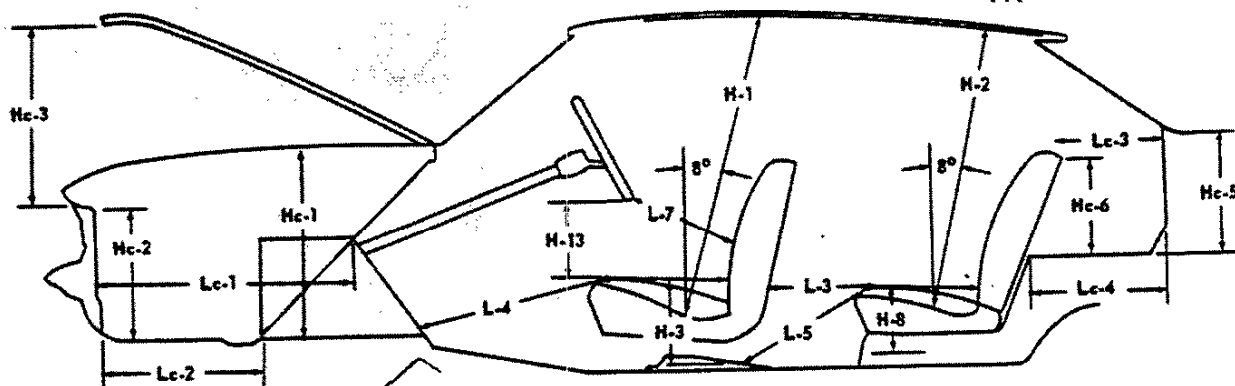
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FOR COMPLETE SPECIFICATIONS
ON GREENBRIER SPORTS WAGON,
SEE 1961 CHEVROLET TRUCK SPEC-
IFICATIONS.

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		

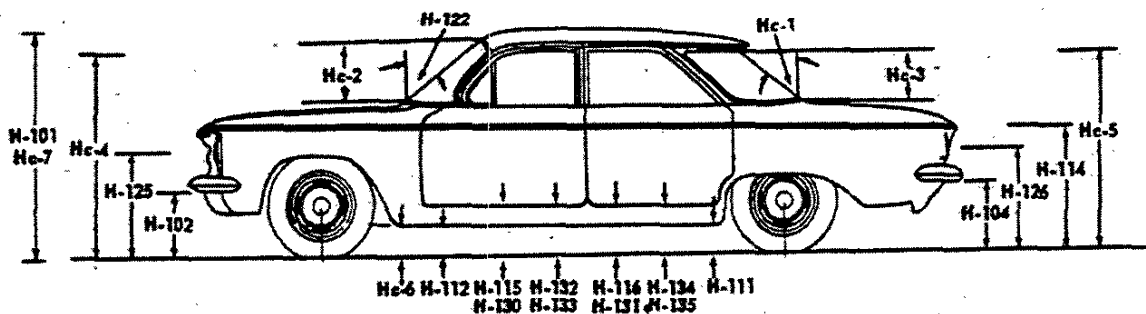
INTERIOR WIDTHS

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		

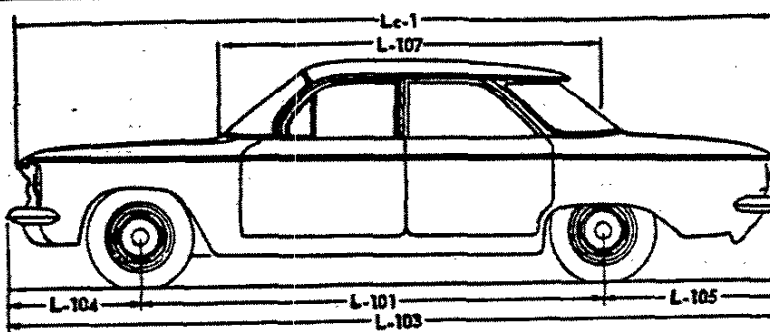
INTERIOR HEIGHTS

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		

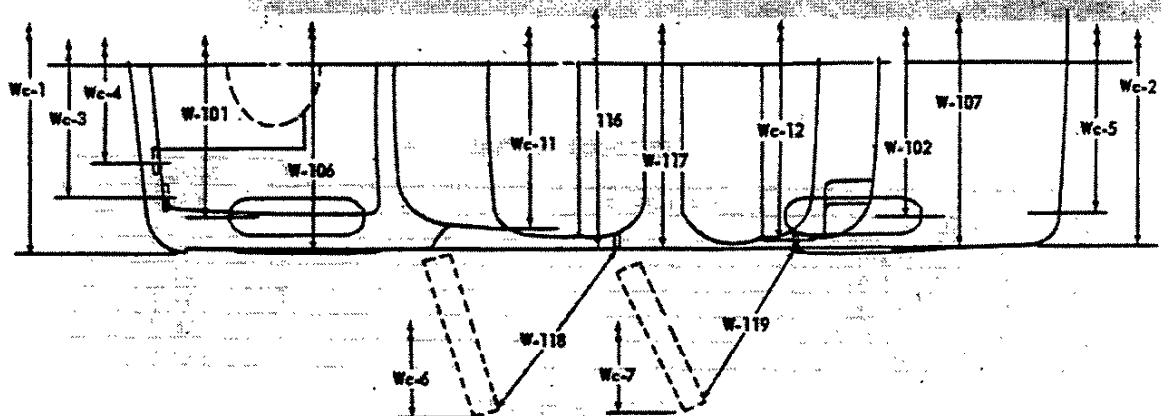
EXTERIOR DIMENSIONS



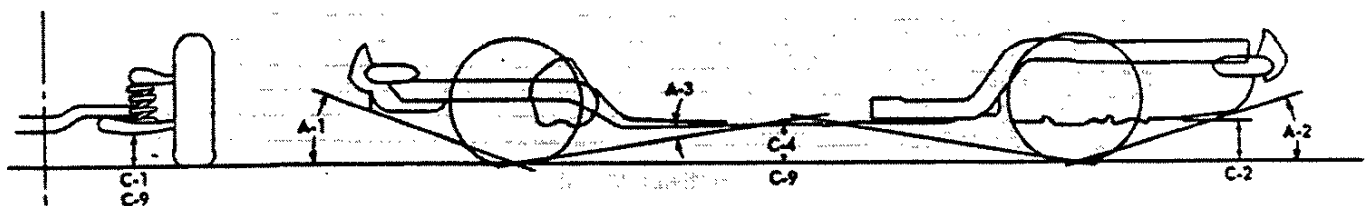
EXTERIOR HEIGHTS				
Code	Description	MODELS •		
		527-727-927	569-769-969	535-735
H-101	Overall height - loaded	51.5		53.5
H-102	Front bumper bottom to ground		15.0	
H-104	Rear bumper bottom to ground	15.5		17.5
H-111	Rocker panel to ground - rear	7.5		8.5
H-112	Rocker panel to ground - front		8.0	
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 center 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.

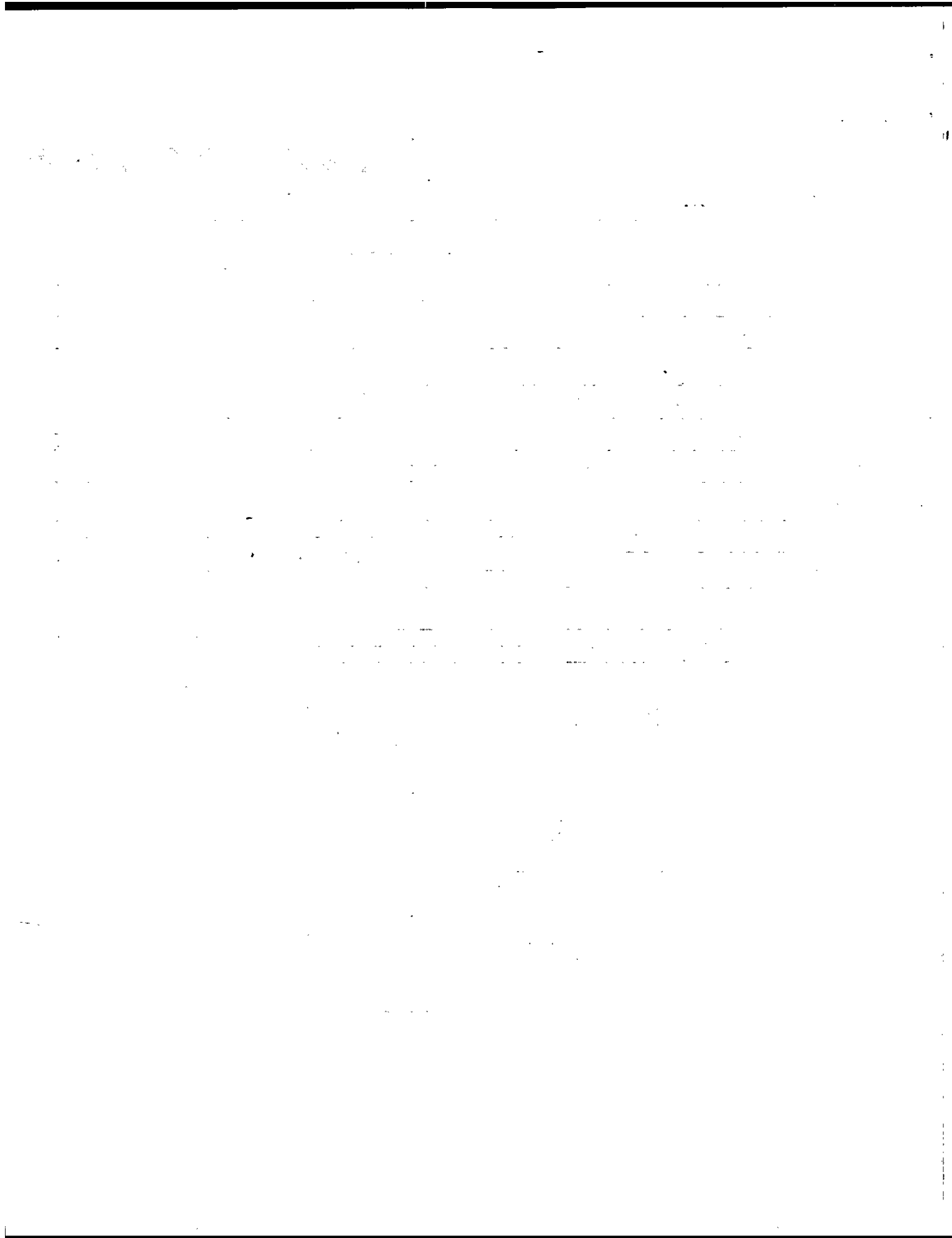
Example:

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



1104

1961 CHEVROLET CORVAIR INDEX

October 1960

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1961 CHEVROLET CORVAIR

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AMA Specifications – Passenger Car

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MANUFACTURER	Chevrolet Motor Division General Motors Corporation	CAR NAME	Corvair
MAILING ADDRESS	Chevrolet Engineering Center Box 246, North End Station Detroit 2, Michigan	MODEL YEAR	1961
		ISSUED	10-7-60
		REVISED (a)	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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Electrical	8	Front Suspension & Steering . .	17	Station Wagon	25	Index	28

BODY—TYPES AND STYLE NAMES—

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

500 Series

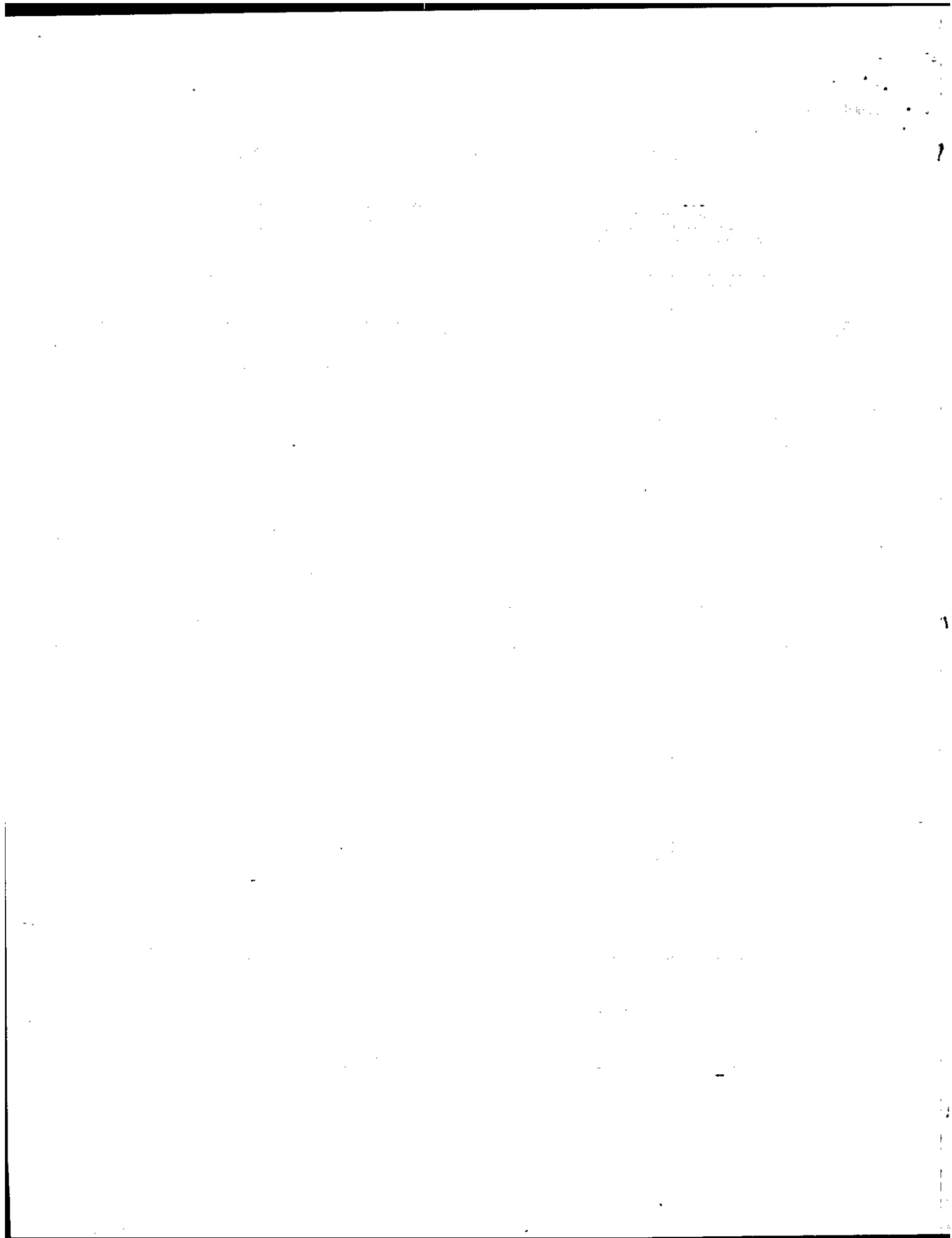
527	2-Door Club Coupe, 5-Passenger
535	4-Door Station Wagon, 6-Passenger
569	4-Door Sedan, 6-Passenger

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



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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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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 horsepower	$\frac{\text{Dia}^2 \times \text{No. Cyl.}}{2.5}$	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 as 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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Page 2A

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

POWER TEAMS

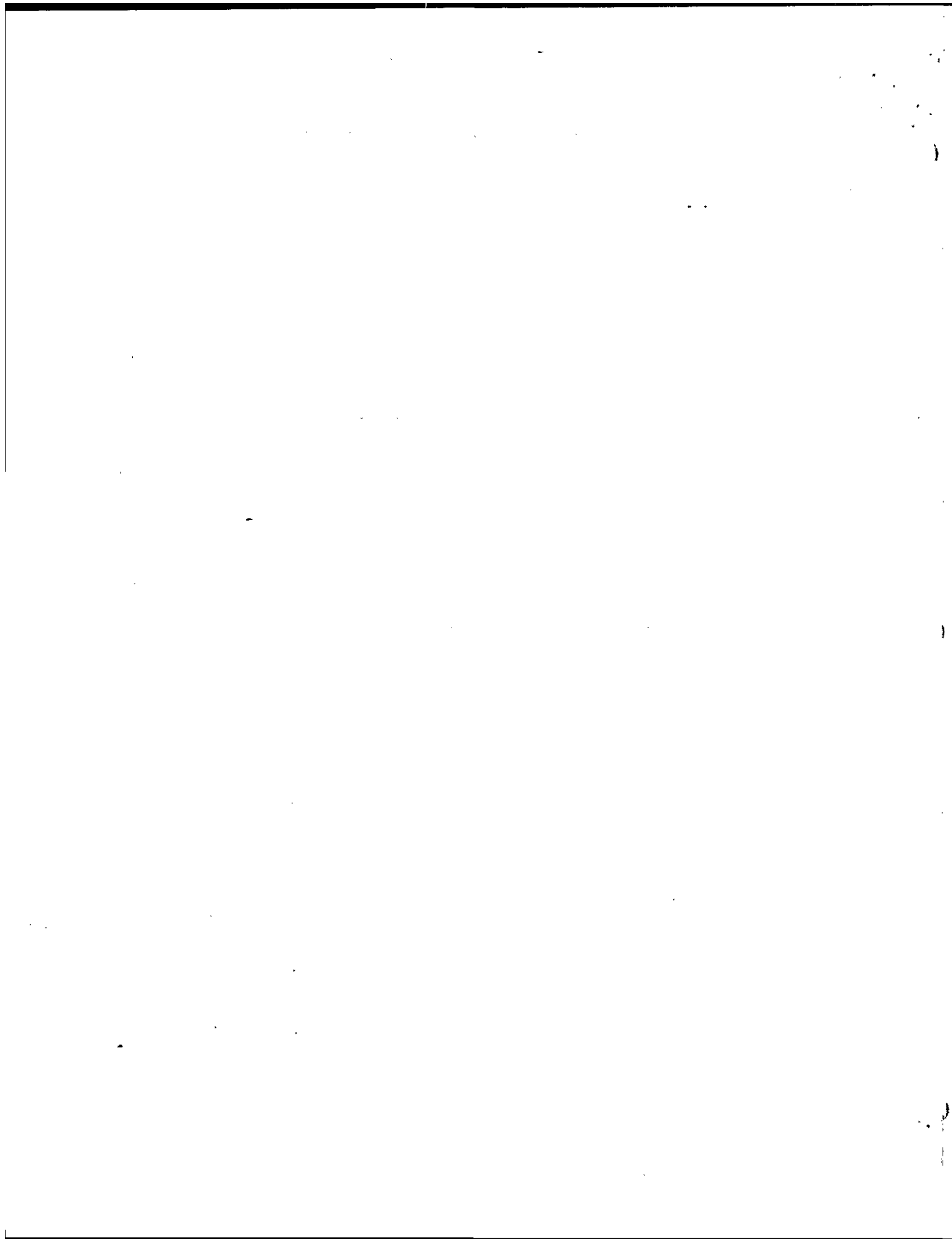
(Indicate whether standard or optional)

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	(b)	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



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MODEL Corvair 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 babbitt - removable	Copper lead alloy
	Overall length	.649	
	Clearance (limits)	.0007-.0027	
	End play	.005-.010	

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

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

MODEL _____ Corvair 500-700-900

ENGINE—CRANKSHAFT

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

ENGINE—CAMSHAFT

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

ENGINE—VALVE SYSTEM

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

(Continued)

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

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)

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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	
Exhaust pipe dia. (O.D.)	Main	1.875 x .0897	2.0 x .0897
Tail pipe diameter (O.D. & wall thickness)		1.500 x .0897	2.0 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	
Fuel Tank	Filler location	Left front fender crown	
Fuel Pump	Type (elec. or mech.)	Mechanical	
Fuel Pump	Locations	Upper rear of engine rear housing	
Fuel Pump	Pressure range	5.25-6.50	
Vacuum booster (std., optional, none)	None		
Fuel Filter	Type	Strainer in gas tank and sintered bronze	
Fuel Filter	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

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MODEL YEAR **1961** DATE ISSUED **10-7-60** REVISED

MODEL

Corvair 500-700-900

ENGINE—COOLING SYSTEM

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

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

(a) - Pitch length.

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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.

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MODEL Corvair 500-700-900

ELECTRICAL—SUPPLY SYSTEM

Battery	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
Generator	Terminal grounded		Negative
	Make		Delco-Remy
	Model		1102227
	Type		Two brush, shunt wound
	Ratio—Gen. to Cr/s rev.		2.3:1
Regulator	Gen. cut-in (hot)—engine rpm		
	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

Starting motor	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
Motor control	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.

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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
		Start (in. Hg)	6.0	7.0	6.0
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	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°		
Timing	Breaker arm tension (oz.)		19-23		
	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

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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
	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 light switches	Locations and devices controlled	Heater control (d) Windshield wiper Trans. control safety and (d) back-up lamp
		Left side of instr. cluster ----- Left side of instr. cluster ----- Oil pressure 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 FCA 120; also a dealer installed accessory, standard on 900 models.
(b) - High note horn optional
(c) - 700 and 900 models.

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

MODEL Corvair 500-700-900

ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

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

Headlamp	15CB (a)
Headlamp beam indicator	(a)
Parking lamp	(a)
Tail lamp	3AG/AGC - 15 amp (b)
Stop lamp	(b)
Direction indicator	Flasher
License plate lamp	(b)
Instrument lamp	3AG/AGC - 3 amp (c)
Ignition lamp	None
Back up lamp	3AG/AGC - 10 amp (d)
Dome lamp	(d)
Clock	None
Clock lamp	None
Radio	Light - (c); receiver 3AG/AGC - 4 amp (e)
Glove compartment lamp	(d)
Cigar lighter	Not fused
Heater	Light and blower - (d)

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

	Tail	Lowest	
		Highest	
Height above ground to center of bulb	Stop		23.8
	Backup		23.8
	License, rear		26.3
	Directional	Front	20.3
		Rear	23.8
	Headlamp	Inside	24.3
		Outside*	24.3
	Tail	Inside	-
		Outside	28.0
Distance from C/L of car to center of bulb	Stop		28.0
	Backup		21.4
	License, rear		On centerline
	Directional	Front	22.9
		Rear	28.0
	Headlamp	Inside	20.8
		Outside*	28.5

* If single headlamps are used enter here.

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

MODEL Corvair 500-700-900

DRIVE UNITS—CLUTCH (Manual Transmission)		Turbo-Air	Super Turbo-Air
Make & type		3-Speed	4-Speed
Type pressure plate springs		Chevrolet, single plate, dry plate	
Effective plate pressure (lb.)		Diaphragm	
No. of clutch driven discs		900-1050	
Clutch facing	Material	One	
	Outside & inside dia.	Woven type asbestos	
	Total eff. area (sq.in.)	8.0 x 6.0	
	Thickness	44	
	Engagement cushioning method	.135	
Release bearing		Spring	
Torsional damping		Type & method of lubrication	
		Ball bearing, sealed	
		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

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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	-
	Capacity (pt.) (Overdrive only)	-
Lu- bri- cant	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 are 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.

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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)		-
Universal joints	Make		-
	Number used		-
	Type (ball and trunnion, 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)		Differential integral with engine and transmission driving rear wheels independently through "U" joints
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
	Extreme cold	SAE-80

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

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

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MODEL Corvair 500-700-900

DRIVE UNITS—WHEELS

Type & material	Short spoke, full disk
Rim (size and flange type)	13 x 5.50 J
Attachment	Stud
Type (bolt or stud)	4.50
Circle diameter	4.7/16-20
Number and size	

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	
Material				Full molded asbestos composition	
Brake lining	Front Shoe	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 cylinder 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.

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MODEL _____ Corvair 500-700-900

BRAKES—PARKING

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

FRAME or UNITIZED CONSTRUCTION

Type and description	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.
----------------------	---

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

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

SUSPENSION—FRONT

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

(Continued)

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

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MODEL Corvair 500-700-900

SUSPENSION FRONT (cont.)

Spring	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
	Design load (lb. @ design height)	815 @ 6.42
Stabilizer	Type (link, linkless, frameless)	None
	Material & bar diameter	--

STEERING

Mechanical (std., opt., NA)			Standard
Power (std., opt., NA)			NA
Wheel diameter			16.00
Turning diameter	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°

Mechanical	Gear	Type		Recirculating ball with cast aluminum housing
		Make		Saginaw
		Ratios	Gear	18.0:1
			Overall	23.5:1
	No. wheel turns		5.00	
Power	Type (coaxial, linkage, etc.)		None	
	Make		--	
	Trade name		--	
	Gear	Type		--
		Ratios	Gear	--
			Overall	--
			Pump driven by	
	Number wheel turns		--	
	Linkage	Type		Parallel relay
		Location (front or rear of wheels, other)		Front
Drag link (trans. or longit.)		None		
Tie rods (one or two)		Two		

(Continued)

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

STEERING (cont)

Steering Axis	Inclination at 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° ^{+0°} -1/2°; Curb load: 2° ^{+0°} -1/2°
	Camber (deg.)		Design or Curb load: 1/2° ⁺ - 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 torque 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			--		
Shackle (comp. or tens.)			--		
Stabilizer	Type (link, linkless, frameless)		None		
	Material		--		
Track bar type			--		

Wheel Camber (deg) Design load: $1^{\circ} \pm 1/2^{\circ}$ Neg; Curb load: $1-1/2^{\circ} \pm 1/2^{\circ}$ 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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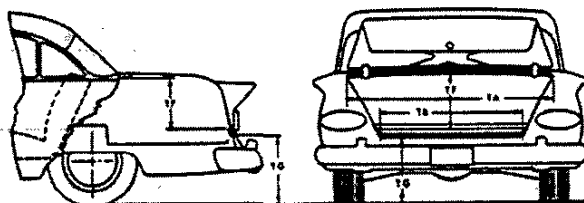
MAKE OF CAR Chevrolet MODEL YEAR 1961 DATE ISSUED 10-7-60 REVISED 12-1-60

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. 1.3. 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	569 969 769 969	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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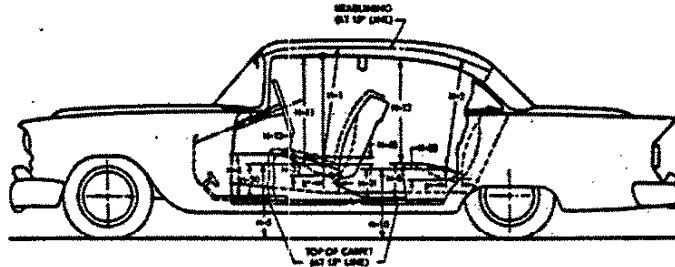
- (a) - Total with folding seat down; 12.6 cu ft - underhood; 3.2 cu ft - rear seat well
16.5 cu ft - rear seat down (including rear seat well)
- (b) - Total with rear seat down; 10.0 cu ft underhood
32.0 cu ft rear seat erect
58.0 cu ft rear seat folded

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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				

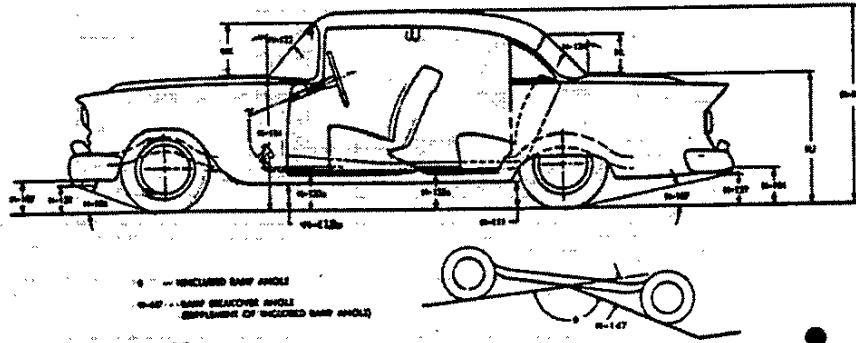
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BODY—HEIGHT DIMENSIONS—EXTERIOR



NOTE: For dimensions to lamps see page 12.

MODEL	527 727	927	569 969	535 735
H101. Overall height, full design load		51.5		53.5
H8. 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

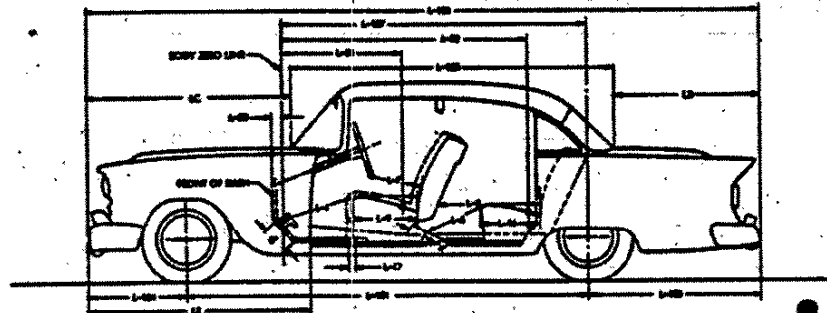
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BODY—LENGTH DIMENSIONS



MODEL		527 727	927	569 969 769	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.

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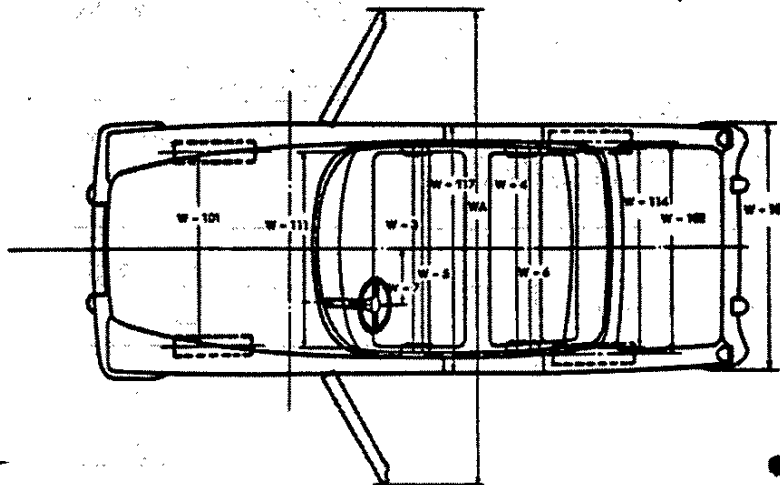
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BODY—WIDTH DIMENSIONS



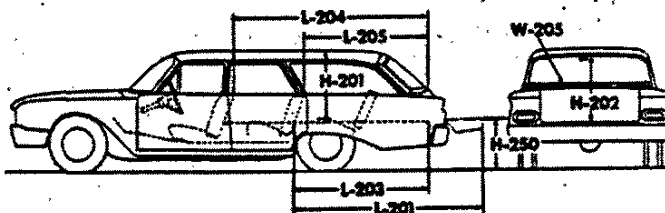
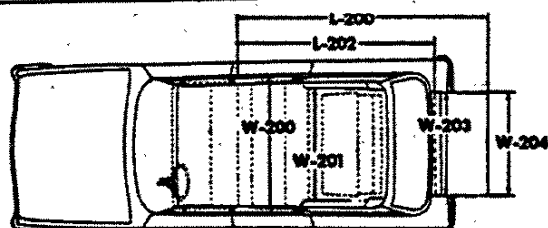
MODEL		527 727	927	569 769	969	535 735
Interior	W3. Front shoulder room, at garnish molding height or nearest interference 5" forward of seat back	54.0				
	W4. Rear shoulder room, at garnish molding height or nearest interference 5" forward of seat back	52.0		53.5		
	W5. Front hip room, at top of seat 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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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 of 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.

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 MODEL 527 727 927 569 969 535
769 735

BODY-MISCELLANEOUS INFORMATION

Doors, 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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MAJOR OPTIONAL ITEMS - WEIGHTS

* These are weights that are reported to states for licensing purposes.

AMA Specifications – Passenger Car

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