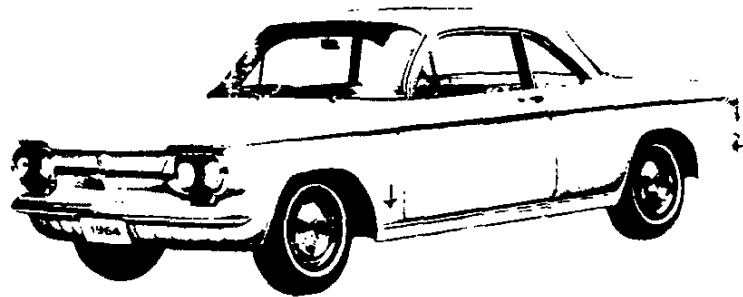


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# GENERAL

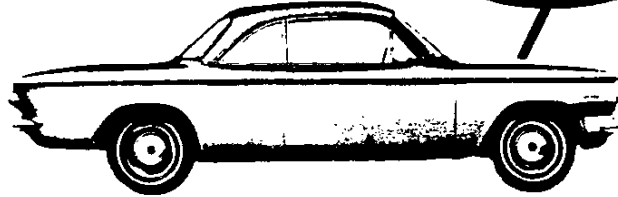


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FOR COMPLETE SPECIFICATIONS  
ON GREENBRIER SPORTS WAGON,  
SEE 1964 CHEVROLET TRUCK SPEC-  
IFICATIONS.

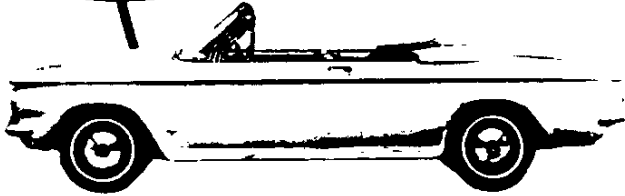
## MODEL IDENTIFICATION

MODEL 527 2-DOOR CLUB COUPE, 5-PASSENGER



500 SERIES

600 SERIES



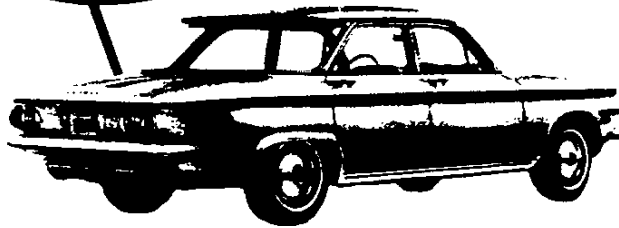
MODEL 627 2-DOOR CLUB COUPE, 4-PASSENGER  
MODEL 667 2-DOOR CONVERTIBLE, 4-PASSENGER

700 SERIES



MODEL 769 4-DOOR SEDAN, 6-PASSENGER

900 SERIES



MODEL 927 2-DOOR CLUB COUPE, 4-PASSENGER  
MODEL 967 2-DOOR CONVERTIBLE, 4-PASSENGER  
MODEL 969 4-DOOR SEDAN, 5-PASSENGER

GREENBRIER R1206

MODEL R1206 6-DOOR SPORTS WAGON, 6-PASSENGER



# SERIAL NUMBERS AND IDENTIFICATION

ONLY BASIC DESIGNATIONS SHOWN

## VEHICLE SERIAL NUMBER

Example:

<u>Model Year</u>	<u>Model</u>	<u>Assembly Plant</u>	<u>Unit Number</u>
1964	0527	(Willow Run)	(25th unit)
4		W	100025

Thus: The 25th model built at Willow Run would be serial number 40527W100025



Starting unit number ----- 100001 and up at each assembly plant  
 Location ----- Stamped tag located on left hand front hinge pillar

ASSEMBLY PLANTS  
 W-Willow Run

## REAR AXLE IDENTIFICATION

Example: HA 0612  
Source and Type  
Designation  
 HA-(Buffalo)

Production\*  
Month and Day  
 0612

HA -----	5-7-900 3-speed -----	3.27:1
HC -----	5-7-900 Powerglide -----	3.27:1
HB -----	600 3 & 4-speed -----	3.55:1

\* - Month: June, 06; 12th day of June, 12



Location ----- Number stamped on lower left side of differential carrier

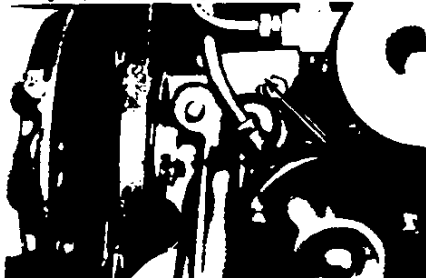
## ENGINE IDENTIFICATION

Example: T0430-Z

<u>Source</u>	<u>Production*</u>	<u>Type</u>
<u>Designation</u>	<u>Month and Date</u>	<u>Designation</u>
T-Tonawanda	0430	Z

YC - 6-cylinder, 3 and 4-speed (5-7-900)  
 YR - 6-cylinder, 3-4 speed (600)  
 YN - 6-cylinder, 3 and 4 speed, high performance (5-7-900)  
 Z - 6-cylinder, automatic (5-7-900)  
 ZF - 6-cylinder, automatic, high performance (5-7-900)

\* - Month: April, 04; 30th day of April, 30



Location ----- Stamped on top of crankcase at rear of engine rear center, right of generator

# REGULAR EQUIPMENT - EXTERIOR

		ITEM	MODELS	
Bright metal trim	Anodized aluminum	Dual headlight, parking, and turn signal light bezels	All	
		Dual stop, tail, and directional signal light bezels		
		Dual back-up light location cover plates	500-700	
		Back-up light bezels	600-900	
		Exhaust grille panel		
		Body front panel molding and plastic emblem base	All	
		Rocker panel molding	600-700-900	
		Rear license area frame		
		Wheel opening, front and rear	600-900	
		Luggage compartment lettering ("Corvaair")		
	Chrome plated metal	Front fender nameplate	All	
		Engine compartment lettering ("Corvaair")		
		Ventipane frame	667, 967	
		Rear quarter window vert. channel		
		Front door vent channel and post	All	
		Engine compartment lid emblem ("Turbo-Charged")	600	
		Front fender nameplate ("Spyder")		
		Simulated air scoops	600-900	
		Luggage compartment lock	All	
		Hub caps	500-700	
	Stainless steel	Moldings	Wheel disks	600-900
			Windshield reveal	
			Drip gutter cap (exc. 667, 967)	600-700-900
			Rear window	600-700-900 exc 667, 967
			Center pillar	969
			Rear body lock pillar upper	927
			Rear quarter window upper frame	627, 927
			Door upper frame	600-900 exc 667, 967
			Body perimeter molding	700
			Key locks on front doors	All
			Folding top base molding	
			Windshield side, header	667, 967
			Dual single-speed electric wipers	
Cowl air inlet				
Gasoline filler door (left front fender)		All		
Rear license lamp				
Deck lid air intake louvers				
Single horn		500		
Dual horns		600-700-900		
Back-up lamps		600-900		
Counterbalanced folding top		667, 967		

## REGULAR EQUIPMENT - INTERIOR

		ITEM	MODELS	
Instrument Panel	Cluster Area	Dual directional signal indicators	All	
		Fuel indicator		
		Speedometer		
		High beam indicator		
		Bright Lights		
		Control		Windshield wiper
		Knobs		Cigarette lighter
		Ignition switch (4-positions)		
		Oil and generator warning lights		
		Anodized aluminum trim plate		500-700-900
	Bright trim plate molding	900		
	Satin chrome cluster face circular tachometer, fuel gauge, speedometer, manifold pressure, and cylinder head temperature gauge faces	600		
	Ash tray	All		
	Radio speaker grille			
	Dual vent control knobs (black plastic)	500 600-700-900 600-900		
Glove Box	Painted door			
	Anodized aluminum trim plate (brushed chrome on 600)			
	Nameplate (Corvair 700, Monza or Spyder)			
	Bright trim plate molding			
Glove box lamp	600-900			
Dual spoke steering wheel (2-tone type on 600 and 900)	All			
Horn button, chrome	500-700			
Half circle horn ring with Monza emblem in hub	600-900			
Inside rear view mirror (painted 500-700; bright 600, 900)	All			
Friction type front ventipanes				
Door locking buttons, rear	769-969			
Door locking control handles, front				
Painted interior trim moldings	All			
Dome lamp (chrome bezel on 600-900 exc 667, 967)				
Dome lamp switch, in main light switch				
Front door jamb switch, dome lamp				
Folding rear seat	600-900 exc 667, 967			
Door and window control handles - dual arm type	600-900			
Door and window control handles - conventional type	500-700			
Front bucket seats	600, 900			
Front door armrests (bright base on 600-700-900)	All			
Rear door armrest with ashtray (bright base)	969			
Rear quarter ash tray (built in armrest on 667, 967)	627, 667, 927, 967			
Anodized aluminum seat end panels, outer (inner painted)	600-900			
Coat hooks	All exc 667, 967			
Dual sunshades	All			
Perimeter beater				
Dual courtesy lamps (instrument panel, L.H. & R.H. side)	667, 967			
Door sill plates	All			
Front door map pocket	600-900			
Seat belts	All			

# GREENBRIER REGULAR EQUIPMENT - EXTERIOR

ITEM		MODELS	
Bright metal trims	Anodized aluminum	Dual headlamp frames, with dual parking and directional signal lights	
		Front air inlet grille	
		Front air inlet grille ornament	
	Chrome plated	Door handles	
		Front door nameplates (Greenbrier)	
		Right rear door nameplate (Chevrolet)	
	Stainless steel	Windshield wiper arms	
		Key locks, front and rear doors	
	Rubber windshield, rear quarter, and rear door window reveal moldings		R1206
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 cap (rear of left front fender wheel opening)			
Single tail, stop, and directional signal lights			
Dual headlamps			
Parking and directional signal lights			
Rear license lamp			
Double right hand side door rubber stops			
Single horn			
Painted areas	Front and rear bumpers		
	Hub caps		
	Ventipane frames		
	Exhaust grille panel		

## GREENBRIER REGULAR EQUIPMENT - INTERIOR

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



# REGULAR PRODUCTION OPTIONS

GROUP	ITEM	NUMBER	MODELS	
Engine	Air cleaner, oil bath	K47	5-6-7-900	
	Generator, 35 amp low cut-in	K71	All	
	High performance engine	L62	5-7-900	
Transmission	Automatic transmission	M35		
	Four speed transmission	M20	All	
Chassis	Driven gear and fitting, speedometer	Z12		
	Limited slip axle (3.27, 3.55, 3.89:1)	G81	All	
	Rear axle, 3.55:1	G95	5-7-900	
	Tires	6.50 x 13-4 pr w/w rayon	P53	All
		6.50 x 13-4 pr w/w rayon-tube	P59	
	Wire wheel cover, simulated wire	P02		
	Wheel trim cover	P01	500-700	
	Wheel, plastic wood steering	N34		
	13 x 5.50 wire wheel (inc. 6.50 x 13-4 ply BW-tube)	P45	All	
	Air conditioning	C64	5-7-900	
Arm rest (rear)	D10	769		
Belt unit, custom deluxe seat (retractor type)	A49	All		
Belt unit, seat (delete)	A62			
Body	Colors, folding top	C06	667, 967	
	Comfort and Convenience	Back up lamps	Z01	500-700
		Glove box lamp		
	Convenience	Outside rear view mirror (a)	Z13	All
		2-speed w/s wiper and washer		
		Inside non-glare mirror		
	Folding rear seat	A67	500-700	
	Instrument panel pad	B70		
	Less heater	C48	All	
	Radio, manual	U60		
	Radio, push button	U63		
	Radio and rear speaker, push button	Z02	All exc. 667, 967	
	Spare wheel lock	P19	All	
Tinted body glass	A01			
Top, electric folding	C05	667, 967		
Windshield glass, tinted	A02	All		

(a) Remote control outside mirror in Z13

## DEALER INSTALLED ACCESSORIES

ITEM	MODELS
Alarm - Parking brake	All
Antenna - Radio, front	
Antenna, rear	
Antenna, rear dummy	
Belt - Custom Deluxe seat	500-700
Bezel - License plate rear	
Cap - Gas tank filler locking	All
Carrier - Roof luggage	All 4-Door models
Clock - Instrument panel	All
Container - Litter	
Conditioning - Air (Deluxe)	
Cover - Wheel trim	500-700
Deflector - Rain	All exc. Convrt.
Dispenser - Tissue	All
Guard - Front and rear bumper	
Guard - Door edge	
Guard - Gas tank filler door	
Hitch - Trailer	500-700
Lamp - Back up	
Lamp - Courtesy	
Lamp - Luggage compartment	All
Lamp - Portable spot	
Lamp - Underhood	
Lamp - Glove compartment	500-700
Lock - Rear door safety	All 4-Door models
Lock - Spare wheel	All
Mat - Floor, full width and contour - front & rear	
Mirror - Outside rear view	
Mirror - Rear view prismatic	
Mirror - Visor vanity	
Mirror - Remote control outside	
Radio - Manual	
Radio - Push button	
Speaker - Radio rear auxiliary	All exc. Convrt.
Tool Kit	All
Washer - Windshield - Push button (Single speed wiper)	

# GREENBRIER REGULAR PRODUCTION OPTIONS

GROUP	ITEM	NUMBER	MODELS	
Engine	Engine, high performance	L52	R1206	
	Air cleaner, oil bath	K47		
	Generator, 35 amp L.C.I.	K71		
Transmission	Four speed	M20		
	Powerglide	M35		
Chassis	Axle, limited slip (3.89:1)	G81		
	Spring, heavy duty front	F60		
	Tires	7.00 x 14-4 pr blackwall rayon		R21
		7.00 x 14-4 pr whitewall rayon		R20
		7.00 x 14-6 pr whitewall rayon		R22
		7.00 x 14-6 blackwall rayon		R24
7.00 x 14-8 blackwall rayon		R25		
Body	Bumper, chrome - front and rear	V37		
	Cover, wheel trim	P01		
	Custom Equipment	Anodized aluminum dispatch box trim plate		Z60
		Chrome plated front and rear bumpers		
		Chrome plated hub caps		
		Chrome cigar lighter		
		Front and rear dome lamp		
		Rear door red cove inserts, chrome bezels		
		Right hand sunshade		
		Stainless steel windshield reveal moldings		
		Spare tire cover, vinyl		
		Special roof panel paint treatment		
		LH and RH driver and rear passenger arm rest (Rear armrest used with RPO A59)		
		LH and RH rear compartment ash tray		
		Two-tone steering wheel		
		Vinyl and nylon faced cloth seats (foam)		
	Vinyl coated rubber floor covering			
	Vinyl trim pads (doors and sidewalls)			
	Four interior colors keyed to exterior color			
	Door, body side, LH	E85		
	Glass, laminated	A09		
	Heater, direct air	C40		
	Heater, gasoline	C45		
	Mirror, rear view (outside)	D32		
	Mirror, outside rear view West Coast type	D29		
	Radio, manual	U60		
	Seat, supplementary	A59		
Wiper and washer, 2-speed	C14			
Belt, custom deluxe seat (retractor type)	A49			
Belt, seat (delete)	A59			
Driven gear and fitting, speedometer	Z12			

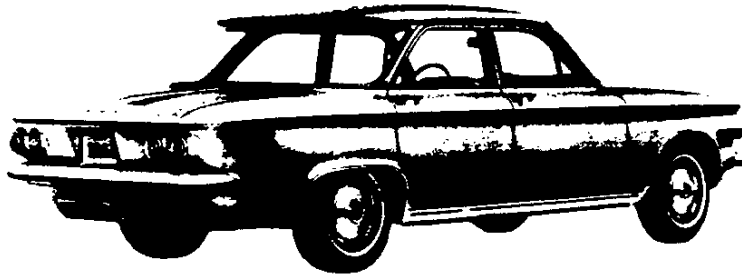
## GREENBRIER DEALER INSTALLED ACCESSORIES

ITEM	MODELS
Belt - Seat, front and rear	
Cap - Gas tank filler locking	
Carrier - Roof luggage	
Clock - Instrument panel	
Container - Litter	
Cover - Roof luggage carrier	
Cover - Wheel trim	
Deflector - Rain	
Dispenser - Tissue	
Guard - Bumper (chrome or painted)	
Heater - Direct air	
Heater - Gasoline	
Lamp - Courtesy	
Lamp - Dome	
Lamp - Portable spot	
Lamp - Spot inside operated	
Lamp - Glove compartment	
Lighter - Cigarette	
Mirror - Outside rear view	
Mirror - Rear view prismatic	
Mirror - Outside rear view, West Coast type	
Radio - Manual	
Rest - Door arm	
Sporting Equipment	Camper unit
	Car top sleeper
	Table
	Pop-up tent
	Window screens
Sunshade - R. H.	
Switch - Traffic hazard flasher	
Tool Kit	
Washer - Windshield - Push button (single speed wipers)	

R1206

15

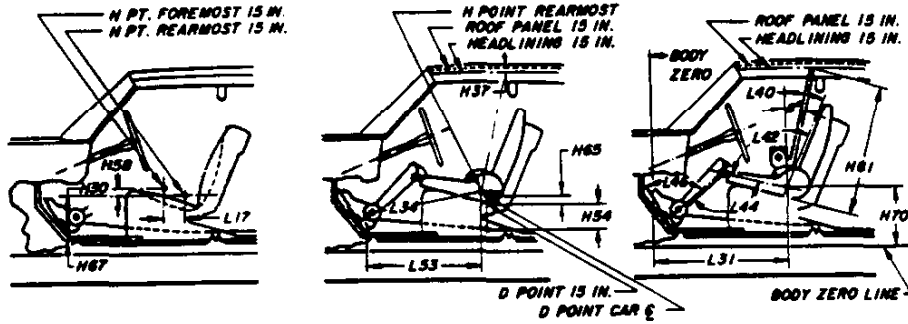
# DIMENSIONS AND WEIGHTS



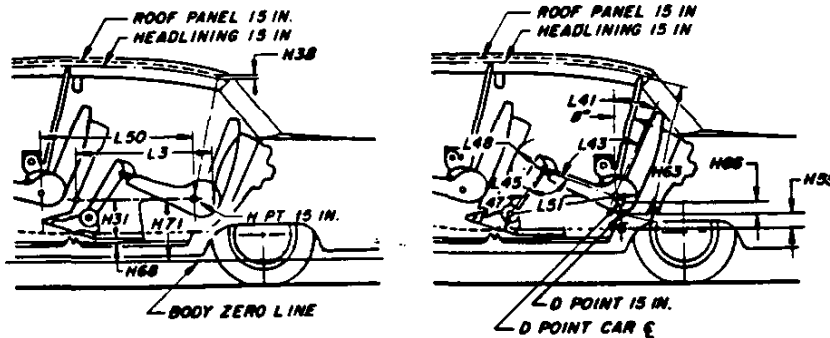
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FOR COMPLETE SPECIFICATIONS  
ON GREENBRIER SPORTS WAGON,  
SEE 1964 CHEVROLET TRUCK SPEC-  
IFICATIONS.

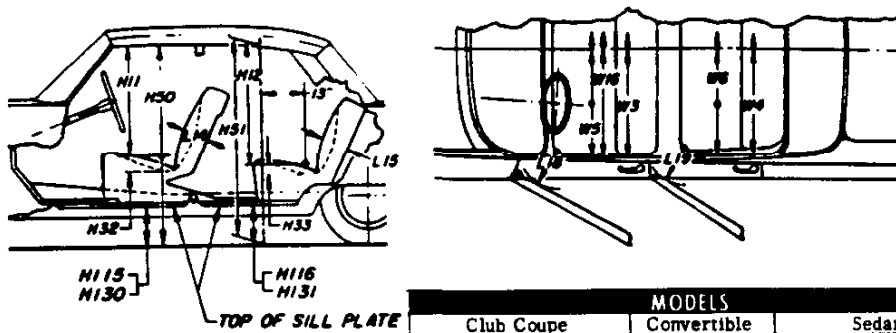
# INTERIOR DIMENSIONS



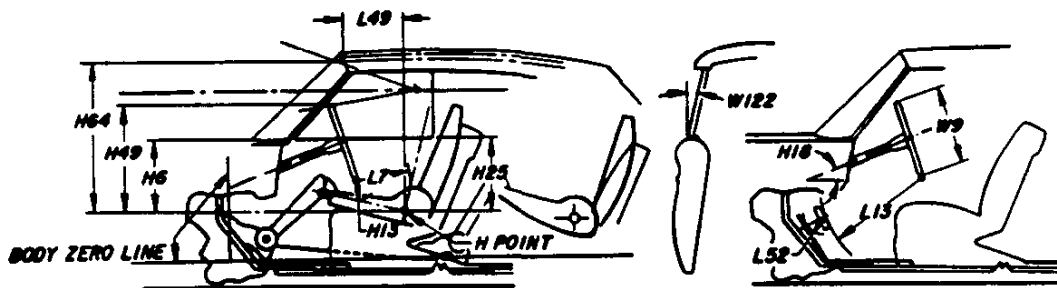
FRONT COMPARTMENT	CODE	DESCRIPTION	MODELS				
			Club Coupe		Convertible	Sedans	
			527	627-927	667-967	769	969
	L31	Body zero line to H point			42.7	42.9	42.6
	H5	H point to ground	17.0	17.6	17.2	17.0	17.2
	H61	Effective head room	37.7	37.6	37.9	37.7	37.6
	H37	Headlining to roof height	.5	.6	.0	.5	.6
	L34	Maximum effective leg room - accelerator			41.0	41.1	41.0
	H30	H point to heel point	7.5		7.6	7.5	7.6
	H67	Depressed floor covering thickness	.4		.5		.5
	L40	Back angle			25°	24°	25°
	L42	Hip angle	92°		93°	91.5°	93°
	L44	Knee angle			122°	123°	122.5°
	L46	Foot angle	76°		77°	78°	77.5°
	H65	H point differential, side to center	.1		---	.2	---
	H54	H point to tunnel	4.8		---	4.9	---
	L53	H point to accelerator floor point			33.9	34.1	34.0
	L17	H point travel			4.0		
	H58	H point rise			.5		



REAR COMPARTMENT	CODE	DESCRIPTION	MODELS				
			Club Coupe		Convertible	Sedans	
			527	627-927	667-967	769	969
	L50	H point couple distance	28.5	27.7	28.8	30.9	31.4
	H10	H point to ground	15.4	15.0	15.2	16.8	16.5
	H63	Effective head room	36.6	37.2	37.8	36.6	36.8
	H38	Headlining to roof height	.0	.1	---		.6
	L51	Minimum effective leg room		31.1	31.4	33.6	33.5
	H31	H point to heel point	8.7	8.6	8.7		10.0
	H68	Depressed floor covering thickness	.4	.2	.2	.4	.2
	L48	Minimum knee room	.9	---	---	2.3	2.6
	L3	Rear compartment room	23.4	22.4	23.9		25.4
	L41	Back angle	19°	21.5°	19°	27°	21°
	L43	Hip angle	67°	70°	68°	83°	76.5°
	L45	Knee angle		73°	74.5°	84°	83°
	L47	Foot angle	113°	109°	112°	117°	116°
	H66	H point differential, side to center	.3	.1	.3	.4	.2
	H55	H point to tunnel	2.6	2.3	2.4		3.9



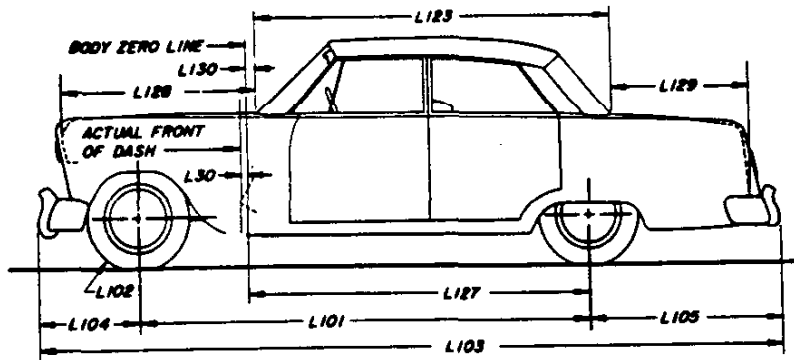
	CODE	DESCRIPTION	MODELS					
			Club Coupe	627-927	Convertible	667-967	769	969
FRONT	W1	Hat room	50.8		50.7		50.8	
	W3	Shoulder room			53.9			
	W5	Hip room			58.2			
	W16	Seat width	50.7		53.2		50.7	53.1
	H3	Seat chair height			9.9		10.0	9.9
	H50	Upper body opening to ground		45.9		45.1	46.0	45.9
	H11	Entrance height	28.8	28.7		27.9	29.0	28.7
	L18	Entrance - foot clearance	13.2	13.2		13.0	13.8	13.2
	H32	Seat cushion deflection	3.7	3.5		4.0	3.7	3.5
	L14	Thickest point of seat back, at C/LO	6.0		6.5		6.0	6.4
REAR	H26	Interior body height - at car C/L	43.4		---		43.6	---
	H27	Interior body height - at C/LO	43.1	42.8		42.2	43.1	43.2
	W2	Hat room	48.8	49.0		47.3	46.4	47.8
	W4	Shoulder room		52.0		43.9		53.6
	W6	Hip room	56.7	56.6		47.2	56.7	57.6
	H8	Seat chair height	9.4	8.8		8.7	11.3	11.5
	H51	Upper body opening to ground		---		---		45.8
	H12	Entrance height		---		---	29.0	29.3
	H69	Exit height		---		---	27.4	27.5
	L19	Entrance - foot clearance		9.2		9.4		11.0
ENTRANCE	H33	Seat cushion deflection	3.9	4.6		4.0	3.2	3.4
	L15	Thickest point of seat back, at C/LO	5.7		6.2			5.7
	H28	Interior body height - at car C/L	40.4	40.9		41.4		42.5
	H29	Interior body height - at C/LO	41.6	41.8		42.6		43.6



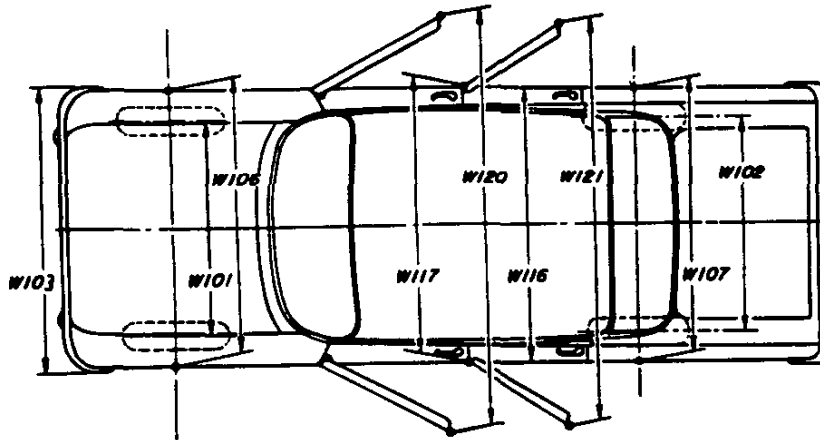
	CODE	DESCRIPTION	MODELS					
			Club Coupe	627-927	Convertible	667-967	769	969
VISION CONTROL	H6	H point to windshield bottom	18.3		18.1		18.3	18.1
	H64	H point to windshield upper DLO	30.6	30.4		30.3	30.6	30.4
	L49	H point to windshield upper DLO			12.0		12.3	12.1
	H25	Belt height - front	16.7		16.6		16.8	16.6
	W7	Steering wheel center to C/L of car			14.0			
	W9	Steering wheel outside diameter			16.0			
	H18	Steering column angle - horizontal			20°			
	H49	H point to top of steering wheel	22.6		22.4		22.7	22.4
	L7	Steering wheel torso clearance	12.0		11.9		12.2	12.0
	H13	Steering wheel thigh clearance	3.1		3.0		3.2	2.9
	L13	Brake pedal knee clearance			24.0			
	L52	Brake pedal to accelerator			2.9			
W122	Tumble - home			14°				



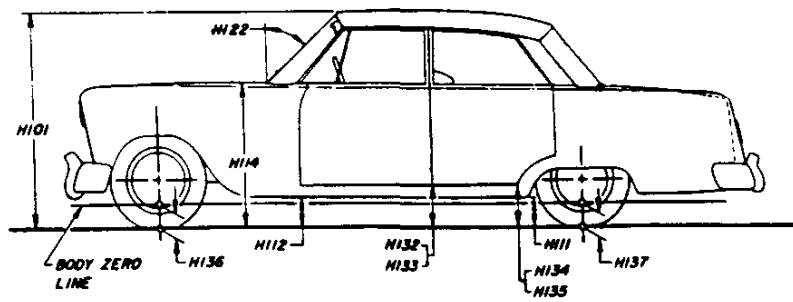
## EXTERIOR DIMENSIONS



CODE	DESCRIPTION	MODELS		
		Club Coupe	Convertible	Sedans
L30	Body O line to actual front of dash		.6	
L101	Wheelbase		108.0	
L104	Overhang, front		30.3	
L105	Overhang, rear		41.7	
L103	Overall length		180.0	
L128	Hood length at centerline		42.4	
L123	Body upper structure length at car centerline	85.7	90.2	95.7
L129	Deck length at centerline	44.3	39.9	35.3
L127	Body O line to centerline of rear wheels		99.0	
L130	Body O line to windshield cowl point		9.7	
L102	Tire size		6.50 x 13	
	Overall length - less bumpers		176.7	

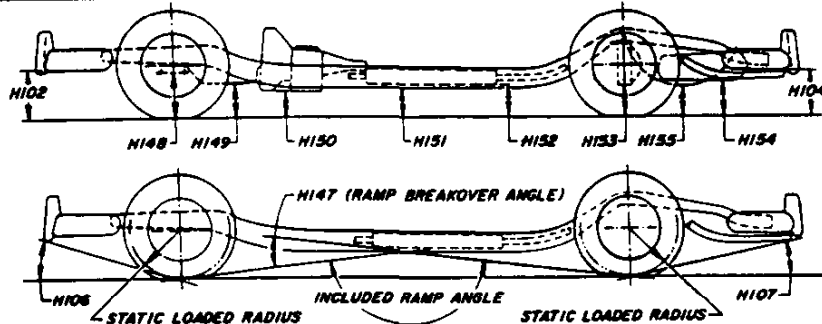


CODE	DESCRIPTION	Club Coupe	Convertible	Sedans
		W101	Tread - front	
W102	Tread - rear		55.1	
W103	Maximum overall width of car		67.0	
W116	Maximum overall width of body		67.0	
W117	Maximum body width at #2 pillar	---	---	66.0
W106	Front fender overall width		66.3	
W107	Rear fender overall width		65.5	
W120	Maximum overall width, front doors open		145.5	130.1
W121	Maximum overall width, rear doors open	---	---	124.1



CODE	DESCRIPTION	MODELS		
		Club Coupe	Convertible	Sedans
H101	Overall height (Design)	51.4	51.1	51.5
H114	Hood at rear to ground		34.2	
H112	Rocker panel to ground - front	7.3		7.7
H111	Rocker panel to ground - rear	7.0		7.2
H115	Step height - front (Design)		12.7	
H116	Step height - rear (Design)	---	---	12.7
H130	Step height - front (Curb)		14.3	
H131	Step height - rear (Curb)	---	---	
H132	Bottom of door to ground, open - front	12.4		12.2
H133	Bottom of door to ground, closed - front		10.8	
H134	Bottom of door to ground, open - rear	---	---	10.8
H135	Bottom of door to ground, closed - rear	---	---	10.6
H102	Front bumper to ground	15.0	14.8	15.1
H104	Rear bumper to ground	15.5	15.3	15.2
H122	Windshield slope angle		52.8	
H136	Body O line to ground - front		5.1	
H137	Body O line to ground - rear		5.1	
H125	Headlamp to ground		24.2	
H126	Taillamp to ground		23.6	
H158	Roof thickness	5.8	6.1	5.7
H159	DLO height	12.2	12.0	12.4
H160	Body thickness		26.2	
H301	Lift over height		28.6	
	Overall height (Curb)	52.3	52.0	52.9

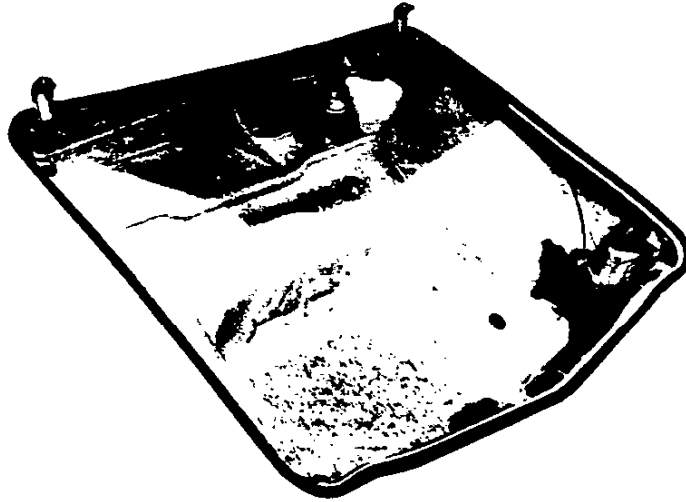
HEIGHTS



CODE	DESCRIPTION	MODELS		
		Club Coupe	Convertible	Sedans
H106	Angle of approach	24.8	24.4	25.4
H107	Angle of departure	15.4	15.0	14.5
H147	Ramp breakover angle	12.9	12.5	12.7
H148	Front suspension to ground	5.8		6.0
H149	Oil pan to ground	6.0	5.8	6.0
H150	Flywheel housing to ground		5.5	
H151	Frame to ground	5.8	5.6	5.8
H152	Exhaust system to ground	7.6	7.4	7.2
H153	Rear axle to ground	5.9	5.7	5.4
H154	Fuel tank to ground	6.6	6.4	6.6
H155	Tire well to ground	---	---	---
H156	Minimum ground clearance		5.5	

CLEARANCES

## SEDAN TRUNK CAPACITIES



### TRUNK CAPACITIES (CU. FT.)

Model	Location	Overall	Standard Luggage
All	Front compartment	12.5 (10.5 with A/C)	6.6
	Rear seat well (exc. 666, 967)	3.2	1.2
	Rear compartment (inc. seat well and folding seat down) (exc. 667, 967)	16.5	15.3
	Total capacity	29.1 (27.0* with A/C)	21.9

\* 12.6 on models 667, 967

## GREENBRIER EXTERIOR - INTERIOR DIMENSIONS

### EXTERIOR LENGTHS

DESCRIPTION	MODEL
	R1206
Wheelbase	95.0
Overall length	179.7
Front overhang	44.4
Rear overhang	40.3
Body "O" to centerline of rear wheels	133.5

### EXTERIOR HEIGHTS

Overall height	68.5
Floor to ground	28.5
Front bumper height	21.5
Rear bumper height	19.2
Sill height	9.9
Angle of approach	19°57'
Angle of departure	18°51'
Minimum ground clearance	6.6
Rear load door height	35.4

### EXTERIOR WIDTHS

Front tread	58.0
Rear tread	58.0
Overall width	70.0
Rear load door width	46.0

### INTERIOR LENGTHS

Front leg room	44.5
Rear leg room	37.8
Steering wheel to seat back	16.0
Front seat depth	17.3
Rear seat depth	17.3
Load floor length from rear of front seat	117.5
Load floor length from rear of second seat	78.0

### INTERIOR HEIGHTS

Front torso room (depressed)	39.7
Rear torso room (depressed)	42.6
Front entrance	31.5
Rear entrance	33.5
Steering wheel to seat cushion	6.8
Rear load floor height	39.7
Rear load floor loading height to ground	28.5

### INTERIOR WIDTHS

Front shoulder room	59.5
Rear shoulder room	59.5
Front hip room	61.4
Rear hip room	61.6
Rear load floor width (between wheelhouses)	44.5

# VEHICLE WEIGHTS

## 500 SERIES

Model	VEHICLE TYPE Description	SHIPPING WEIGHT			CURB WEIGHT			DESIGN WEIGHT <sup>c</sup>		
		Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
527	2-Door Club Coupe 6-Cylinder	800	1565	2365	880	1570	2450	1110	1940	3050
527P		800	1570	2370	880	1575	2455	1110	1945	3055

## 600 SERIES

627	2-Door Club Coupe 6-Cylinder	835	1635	2470	915	1640	2555	1145	2010	3155
627P		835	1645	2480	915	1650	2563	1145	2015	3165
667	2-Door Convertible 6-Cylinder	895	1685	2580	975	1690	2665	1210	2055	3265
667P		895	1690	2585	975	1695	2675	1210	2065	3275

## 700 SERIES

727	2-Door Club Coupe 6-Cylinder	810	1580	2390	890	1585	2475	1120	1955	3075
727P		810	1585	2395	890	1595	2485	1120	1965	3085
769	4-Door Sedan 6-Cylinder	795	1620	2415	875	1625	2500	1095	2005	3100
769P		795	1630	2425	875	1635	2510	1095	2010	3105

## 900 SERIES

927	2-Door Club Coupe 6-Cylinder	830	1615	2445	910	1620	2530	1140	1990	3130
927P		830	1675	2455	910	1630	2540	1140	2000	3140
967	2-Door Convertible, 6-Cylinder	890	1665	2555	970	1670	2640	1205	2040	3245
967P		890	1670	2560	970	1680	2650	1205	2045	3250
969	4-Door Sedan 6-Cylinder	810	1660	2470	890	1665	2555	1110	2045	3155
969P		810	1665	2475	890	1670	2560	1110	2050	3160

## GREENBRIER R1206

R1206	6-Door Sports Wagon 6-Cylinder	1260	1730	2990	1355	1750	3105	1785	2200	3985
R1206A		1265	1735	3000	1360	1760	3120	1795	2200	3995

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 (115 pounds for Greenbrier).

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

Example:

Model 727 (4-passengers, 2-front, 2-rear)  
2475 + 600 = 3075

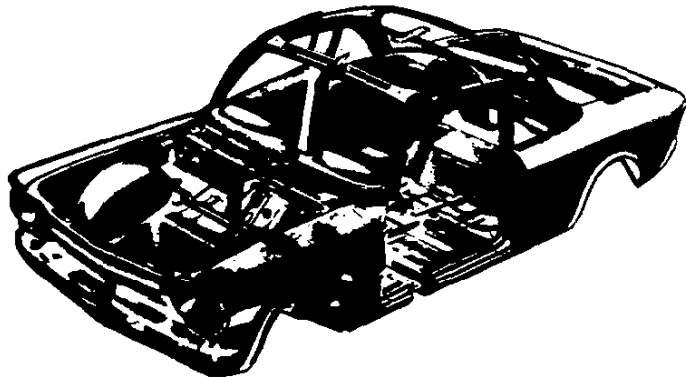
**PERFORMANCE WEIGHT:** The curb weight of the lowest priced 4-door sedan with regular equipment plus 600 pounds for 4-passengers.

Example:

Model 769 (4-passengers) 2500 + 600 = 3100

<sup>c</sup> - Based on passenger weight distribution of number of passengers in front and rear. For total loaded weight, add 150 lbs. for each passenger in the designated passenger carrying capacity for the particular vehicle.

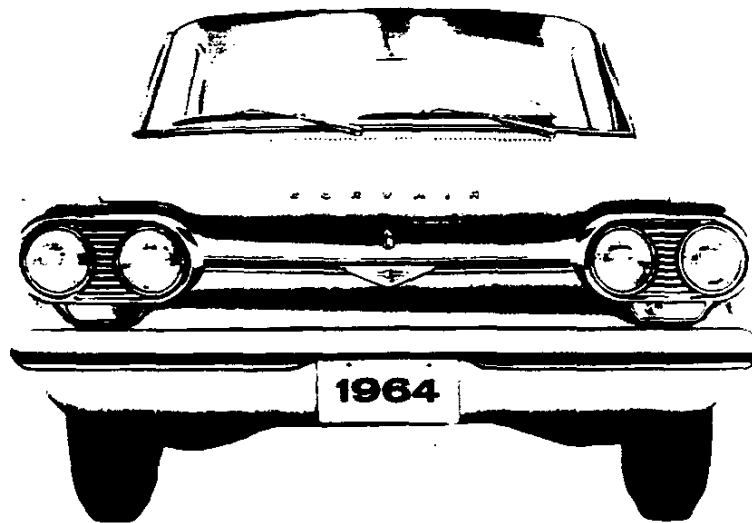
# BODY



- EXTERIOR PAINT PROCESS ..... 2
- EXTERIOR-INTERIOR COLOR COMBINATIONS ..... 3
- GREENBRIER EXTERIOR-INTERIOR COLOR COMBINATIONS . . . 5
- BODY GLASS ..... 6
- BODY CONSTRUCTION ..... 7

FOR COMPLETE SPECIFICATIONS  
ON GREENBRIER SPORTS WAGON,  
SEE 1964 CHEVROLET TRUCK SPEC-  
IFICATIONS.

## EXTERIOR PAINT PROCESS



### NINE STEP FINISHING PROCESS

1. **RUSTPROOFING . . .** Bare steel is thoroughly treated with chemicals that etch the metal for improved paint adhesion. This chemical also cleans the metal to give it a corrosion-resisting surface.
2. **BODY AND SHEET METAL PRIMER . . .** Four different and specially formulated corrosion resistant primers are used during sub-assembly of the body where rust could possibly develop. Areas considered especially critical are subsequently coated with another type rust inhibiting compound, after the lacquer coats have been applied.  
A primer coat is applied to all outside and inside surfaces of the front fenders and hood. This is done by dipping or flowcoating to insure coating in all seams and secluded areas, and then baking at 390 degrees F for 30 minutes. After baking, a coat of sealer is applied to all surfaces requiring a subsequent coat of lacquer.
3. **PRIMER-SURFACER COAT AND FLASH PRIME COAT . . .** An air dried flash prime coat is applied to surfaces below the beltline. Next, a full primer-surfacer coat is applied to all outside surfaces of the body receiving lacquer and then oven baked for 45 minutes at 285 degrees F.
4. **SANDING . . .** Power wet sanding followed by hand sanding is done on all surfaces requiring lacquer.  
Upon inspection, spot sanding assures an absolutely smooth surface for the lacquer. After lacquer application and initial baking, final wet sanding, both power and hand, prepares the body for final baking by removing surface irregularities.
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. **INITIAL BAKING . . .** To set up the paint hardness for final sanding the body is baked for approximately 10 minutes at 200 degrees F.
7. **FINAL BAKING . . .** To assure a durable, hard, high luster finish the lacquer is now baked for 30 minutes at 275 degrees F. Reheating the lacquer after final sanding permits paint film to soften and allows surface blemishes and sanding scratches to disappear during the thermo-reflow process.
8. **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.
9. **PAINT REPAIR . . .** Any slight mars, nicks, or scratches that might occur during final assembly are factory-repaired and corrected before shipment. Light "slush" polishing is done to bring painted surfaces to a high luster finish. Wax is sprayed on each vehicle for protection during transit.

# EXTERIOR-INTERIOR COLOR COMBINATIONS

500 — 700 SERIES

EXTERIOR			INTERIOR TRIM COLORS AND RPO NUMBERS						
			Fawn	Aqua	Red	Fawn	Aqua	Red	Blue
			Model 527			Model 769			
RPO	Color	Sales Name	764	720	783	757	751	780	731
900	Black	Tuxedo Black	X	X	X	X	X	X	X
905	Med. Green	Meadow Green	X			X			
908	Dk. Green	Bahama Green	X			X			
912	Med. Blue	Silver Blue	X						X
916	Dk. Blue	Daytona Blue	X						X
918	Med. Aqua	Azure Aqua		X			X		
919	Dk. Aqua	Lagoon Aqua		X			X		
920	Med. Fawn	Almond Fawn	X			X			
922	Med. Red	Ember Red	X		X	X		X	
932	Lt. Saddle	Saddle Tan	X			X			
936	White	Ermine White	X	X	X	X	X	X	X
938	Beige	Desert Beige	X		X	X		X	
940	Silver	Satin Silver		X	X		X	X	X
943	Yellow	Goldwood Yellow							
948	Maroon	Palomar Red	X		X	X		X	
<b>Two-Tone(upper/lower)</b>									
952	Dark Green/Medium Green		X			X			
954	White/Medium Green		X			X			
959	White/Medium Blue		X						X
960	Dark Blue/Medium Blue		X						X
965	White/Dark Aqua			X			X		
971	Beige/Light Saddle		X			X			
975	Beige/Medium Red		X		X	X		X	
982	Dark Blue/Silver		X						X
988	Medium Aqua/White			X			X		
993	Beige/Maroon		X			X			
995	Silver/Maroon				X			X	



# EXTERIOR - INTERIOR COLOR COMBINATIONS cont'd.

## MONZA-MONZA SPYDER SERIES

EXTERIOR			INTERIOR TRIM COLORS AND RPO NUMBERS						
			Fawn	Aqua	Red	Blue	Saddle	Black	White
RPO	Color	Sales Name	Models 927-67-69, 627-67						
			758	755	781	732	705	712	727
900	Black	Tuxedo Black	X	X	X	X	X	X	X
905	Med. Green	Meadow Green	X					X	
908	Dk. Green	Bahama Green	X				X		
912	Med. Blue	Silver Blue				X		X	
916	Dk. Blue	Daytona Blue				X			
918	Med. Aqua	Azure Aqua		X				X	
919	Dk. Aqua	Lagoon Aqua		X					
920	Med. Fawn	Almond Fawn	X				X	X	
922	Med. Red	Ember Red	X		X			X	X
932	Lr. Saddle	Saddle Tan	X				X		
936	White	Ermine White	X	X	X	X	X	X	X
938	Beige	Desert Beige	X		X		X	X	
940	Silver	Satin Silver		X	X	X		X	X
943	Yellow	Goldwood Yellow						X	
948	Maroon	Palomar Red	X		X			X	X

Convertible top: white (Reg. Prod.), black (RPO C05AA) or beige (RPO C05BA) with any exterior color.  
 Instrument panel, steering wheel and carpet are red in white interior.  
 Two-Tone exterior not available for Monza or Monza Spyder models.

# GREENBRIER EXTERIOR - INTERIOR COLOR COMBINATIONS

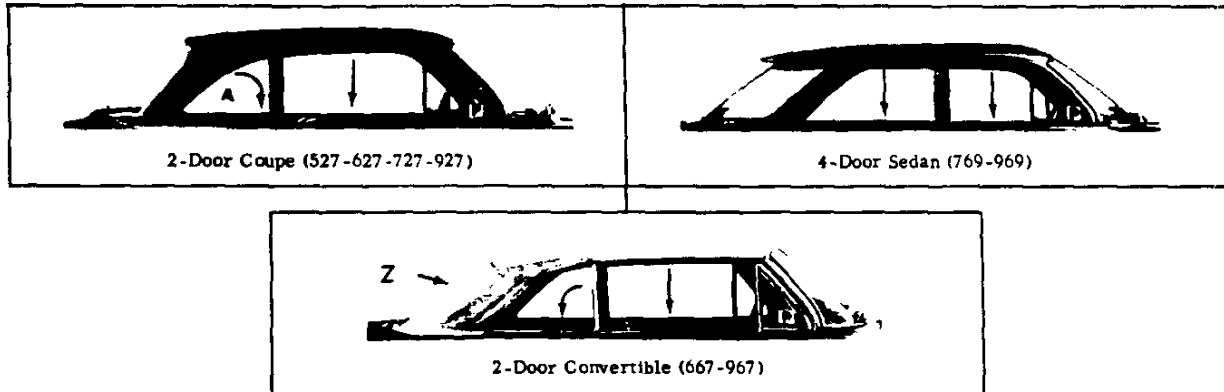
GREENBRIER R1206

EXTERIOR		INTERIOR TRIM COLORS				
		R-1206	R-1206 Deluxe			
		Fawn	Med. Fawn	Turquoise	Red	Lt. Green
RPO	Color	Std.				
500	Black	X		X		
503	Light Green	X				X
505	Dark Green	X				X
507	Light Blue	X	X			
508	Dark Blue	X	X			
510	Turquoise	X		X		
514	Red	X			X	
516	Orange	X	X			
519	Yellow	X	X			
521	White	X			X	
522	Gray	X			X	
524	Coppertone	X	X			
526	Off-White	X			X	
528	Fawn	X	X			
529	Gray-Green	X	X			
<b>Two-Tone (Insert/Body)</b>						
530	Off-White/Black	X		X		
533	Off-White/Light Green	X				X
535	Off-White/Dark Green	X				X
537	Off-White/Light Blue	X	X			
538	Off-White/Dark Blue	X	X			
540	Off-White/Turquoise	X		X		
541	Red/Off-White	X			X	
544	Off-White/Red	X			X	
545	Red/White	X			X	
546	Off-White/Orange	X	X			
549	Off-White/Yellow	X	X			
552	Off-White/Gray	X			X	
554	Off-White/Coppertone	X	X			
558	Off-White/Fawn	X	X			
559	Off-White/Gray-Green	X	X			

\* - Part of RPO Z60 Deluxe Body Equipment

# BODY GLASS

## WINDOW ACTION



- P - Pivoting - friction type
- Z - Zip-Out
- Rotating (Rocker action)
- Rotating (667-967)

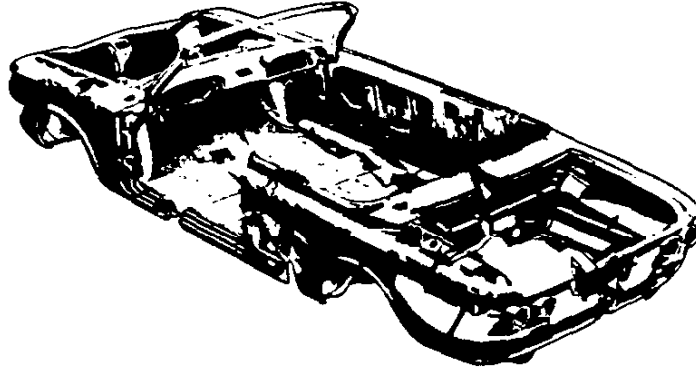
(a) - Fixed on 527

## BODY GLASS TYPE AND VISIBILITY AREA

LOCATION		MODELS				
		527	727	627-927	769-969	667-967
Windshield				1122.8		1122.8
Front Door Window	Pivoting Ventipane			62.0		80.8
	Roll Down		706.0		482.1	639.5
Rear Door Window	Roll Down				610.6	
	Roll Down			259.2		303.2
Rear Quarter Window	Fixed	247.7				
	One-Piece		1069.2		1104.2	726.6*
Total Visibility (Sq In.)		3207.7		3219.2	3381.7	2872.9

All glass is Safety Solid Plate except the windshield which is Laminated Safety Plate.  
\* - Plastic

## 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 (front and rear) ----- Two full steel welded panels hinged at front

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

Door Ventipanes ----- Friction type

### VENTILATION

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

### HOOD AND DECK LID

Type ----- Dual panel construction, torsion rod counterbalanced luggage compartment lid with external keylock release, telescoping link engine compartment lid with external release lever.

### WINDSHIELD WIPERS

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

Linkage ----- Parallel acting

### SEAT CONSTRUCTION

Type ----- Front seat cushion - 500-700, 3/4 polyurethane; 600-900, 1-1/2 polyurethane.

----- Rear seat cushion - 500-600-700, 927-967, Jute and cotton; 969, 1-3/4 polyurethane.

### SPARE TIRE MOUNT

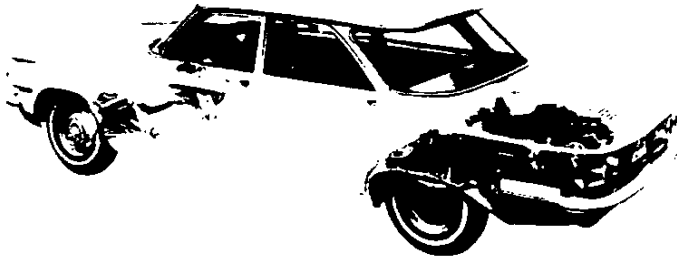
Location ----- Sedans and coupes, right rear corner in engine compartment. Tools consist of scissors jack and combination wheel nut wrench and lever handle.



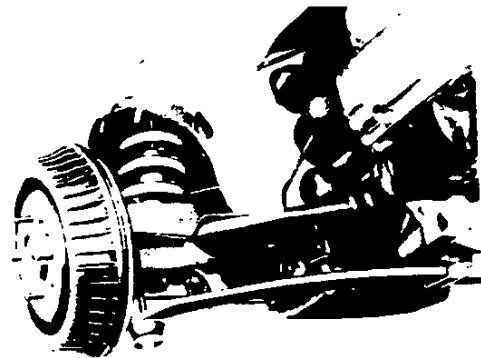
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# CHASSIS



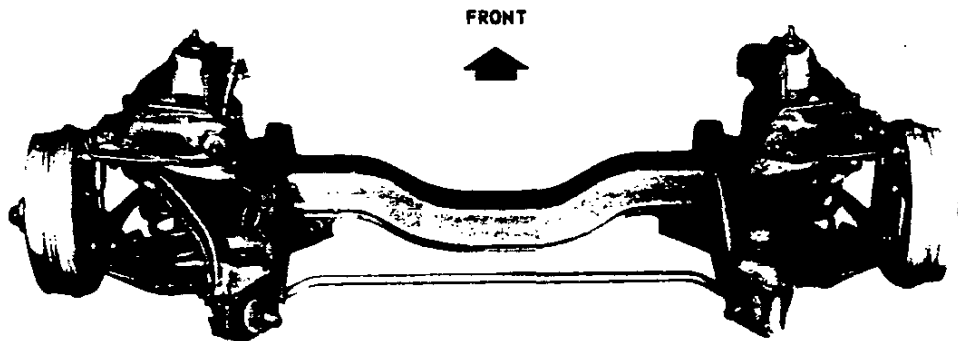
FRONT SUSPENSION .....	2
STEERING .....	3
REAR SUSPENSION .....	4
REAR AXLE .....	5
BRAKES .....	6
WHEELS AND TIRES .....	6
ELECTRICAL .....	7



REAR SUSPENSION

FOR COMPLETE GREENBRIER SPECIFICATIONS,  
SEE 1964 CHEVROLET TRUCK SPECIFICATIONS.

# FRONT SUSPENSION



## GENERAL

Description ----- Independent, SLA Type, with coil spring and concentric shock absorber, and spherically-jointed steering knuckle, for each wheel. Adjustments to front suspension achieved with shims at upper control arm pivot shafts. Front suspension, front crossmember and steering linkage unitized as sub-assembly.

Wheel travel, from design attitude ----- 3.90

Jounce ----- 3.22

Rebound ----- 1.63

Wheel to spring ratio ----- 1.63

## CONTROL ARMS

Description -----

Upper ----- Stamped A frame rubber-bushed at pivot.

Lower ----- Strut-supported, stamped frame rubber-bushed at pivot.

Bushings -----

Type ----- Pre-loaded, steel encased rubber

## STEERING KNUCKLE

Description ----- Forged steel with integral brake cylinder mounting, and detachable steering knuckle arm

Spindle -----

Diameters -----

At inner bearing ----- 1.0618-1.0623

At outer bearing ----- .6868-.6873

Thread size ----- 11/16-24 NEF 3 (modified)

## WHEEL BEARINGS

Type ----- Taper roller

Quantity ----- Two per spindle

## SPHERICAL JOINTS

Type ----- Ball studs, upper self-adjusting for wear

Quantity ----- Two per steering knuckle

Bearing surfaces -----

Material -----

Upper ----- Two bearings, both non-metallic: one, a teflon-coated phenolic; the other, a teflon-cotton composition

Lower ----- One bearing, a non-metallic, teflon-cotton composition

Seals -----

Description -----

Upper and lower ----- Neoprene with phenolic contact surface, reinforced with steel retainer

Lubrication -----

Upper and lower ----- High pressure grease fitting

## SHOCK ABSORBER

Type ----- Direct, double-acting, hydraulic

Secured (through coil spring) to ----- Lower control arm front crossmember shock absorber bracket

Piston diameter and travel (unassembled) ----- 1.00,4.75

Piston rod plating ----- Chrome

## STABILIZER BAR

Type ----- Links:

Material ----- HR Steel

Diameter ----- .75

Bushing material ----- Natural or synthetic rubber

## FRONT WHEEL ALIGNMENT

Design -----

Camber (degrees) ----- 0 to P1

Caster (degrees) ----- P2-3/4 to P3-3/4

Toe-in (per wheel) ----- 1/32

Curb -----

Camber (degrees) ----- 0 to P1

Caster (degrees) ----- P1-1/2 to P2

Toe-in (per wheel) ----- 5/32

Steering axis inclination (degrees) ----- 6-1/2 to 7-1/2

## FRONT SPRINGS ●

For all power team combinations

3848975

Model application ----- 527, 627, 769, 927, 969  
 Type ----- Right hand helix  
 Material ----- Steel alloy, heat treated and drawn  
 Cut-off length ----- 90,351  
 Number of coils (active, total) ----- 5.85, 7.184  
 Wire diameter ----- .470  
 Outside diameter ----- 4.393  
 Pitch diameter ----- 3.923  
 Height  
     Free ----- 10.651  
     Working (inches @ lb) ----- 6.42 @ 770  
 Deflection rate between 8.95 and 11.95 (lb. per inch)  
     @ Spring ----- 182  
     @ Wheel (wheel rate) ----- 106.5

3826077

Some as 3848975 except as follows

Model application ----- 667, 967  
 Cut-off length ----- 92.18  
 Number of coils (active, total) ----- 5.85, 7.85  
 Height  
     Free ----- 11.12  
     Working (inches @ lb) ----- 6.42 @ 855

## STEERING

### GENERAL

<p>Description ----- Semi-reversible,              recirculating ball and nut steering gear with integral              shaft</p> <p>Steering gear              Gear ratio ----- 18:1              Overall ratio ----- 25:1</p> <p>Turning characteristics              Turning diameters (ft)              Outside front                  Wall to wall, right and left ----- 40.1                  Curb to curb, right and left ----- 38.2              Inside rear                  Wall to wall, right and left ----- 22.8                  Curb to curb, right and left ----- 23.1</p>	<p>Number of wheel turns, lock to lock ----- 4.75              Outside wheel angle with inside wheel                  @ 20 degrees ----- 18.18</p> <p>Steering shaft              Number ----- 1              Diameter ----- .625</p> <p>Steering wheel              Type ----- Deep dished, two spoke              Diameter ----- 16.00</p> <p>Linkage              Type ----- Parallel relay              Location ----- Front of wheels              Number of tie rods ----- 2              Lubrication points ----- 4; one                  at each end of each tie rod</p>
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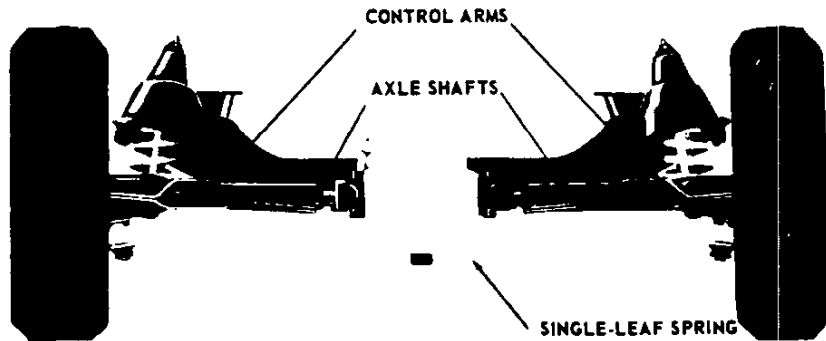
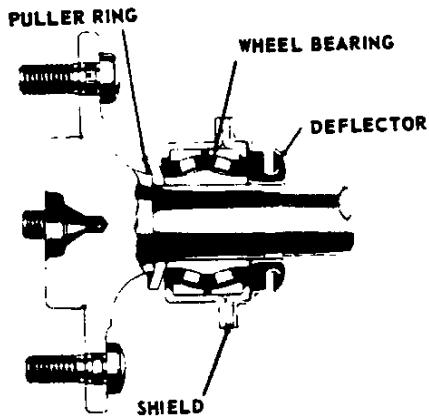


# REAR SUSPENSION

## GENERAL

Description ----- Independent, swing axle type, with rigidly mounted differential carrier. Locus of each wheel established by 2 links - universally-jointed axle and control arm. Drive taken through control arms; torque taken through chassis. Vertical suspension loads taken by coil springs and concentric shock absorbers, and transversely-positioned single leaf spring. Toe-in adjustments achieved with shims at transmission and engine mounts.

Wheel travel, from design attitude	
Jounce -----	2.83
Rebound -----	3.64
Wheel to spring ratio	
Coil -----	1.80
Leaf -----	1.22



## CONTROL ARMS

Description -----	Box-sectioned A member rubber-bushed at pivot
Bushings	
Type -----	Pre-loaded steel encased rubber

## SHOCK ABSORBERS

Type -----	Direct, double-acting, hydraulic
Secured (through coil spring) to -----	Rear suspension crossmember and control arm
Piston diameter and travel (unassembled) -----	1.00, 4.75
Piston rod plating -----	Chrome

## REAR WHEEL ALIGNMENT

Design	
Camber (degrees) -----	N2-1/2
Toe-in (degrees) -----	5/16
Curb	
Camber (degrees) -----	P1
Toe-in (overall) -----	1/4

## WHEEL BEARINGS

Type -----	Double row spherangular roller lubricated for life
Quantity -----	One per wheel

## REAR SPRINGS ●

For all power team combinations

Deflection rate at wheel (wheel rate) for combined coil and leaf spring, lb per inch ----- 142.5

Coil - 3848969

Left hand sides for models 527,769,627,927,969	
Type -----	Right hand helix
Material -----	Steel alloy, heat treated and drawn
Cut-off length -----	111.687
Number of coils (active, total) -----	7.50, 8.834
Wire diameter -----	.506
Outside diameter -----	4.465
Pitch diameter -----	3.959
Height	
Free -----	13.369
Working (inches @ lb) -----	7.45 @ 1095
Deflection rate between 5.95 and 8.95 (lb per inch) @ Spring -----	185

Coil - 3848967

Right hand side for models 527,769,627,927,969

Same as 3848969 except as follows

Cut-off length -----	98.804
Number of coils (active, total) -----	6.50, 7.834
Wire diameter -----	.486
Outside diameter -----	4.425
Pitch diameter -----	3.939

Height

Free -----	12.585
Working (inches @ lb) -----	7.45 @ 950
Coil - 3848970	
Left hand side for models 667,967	

Same as 3848969 except as follows

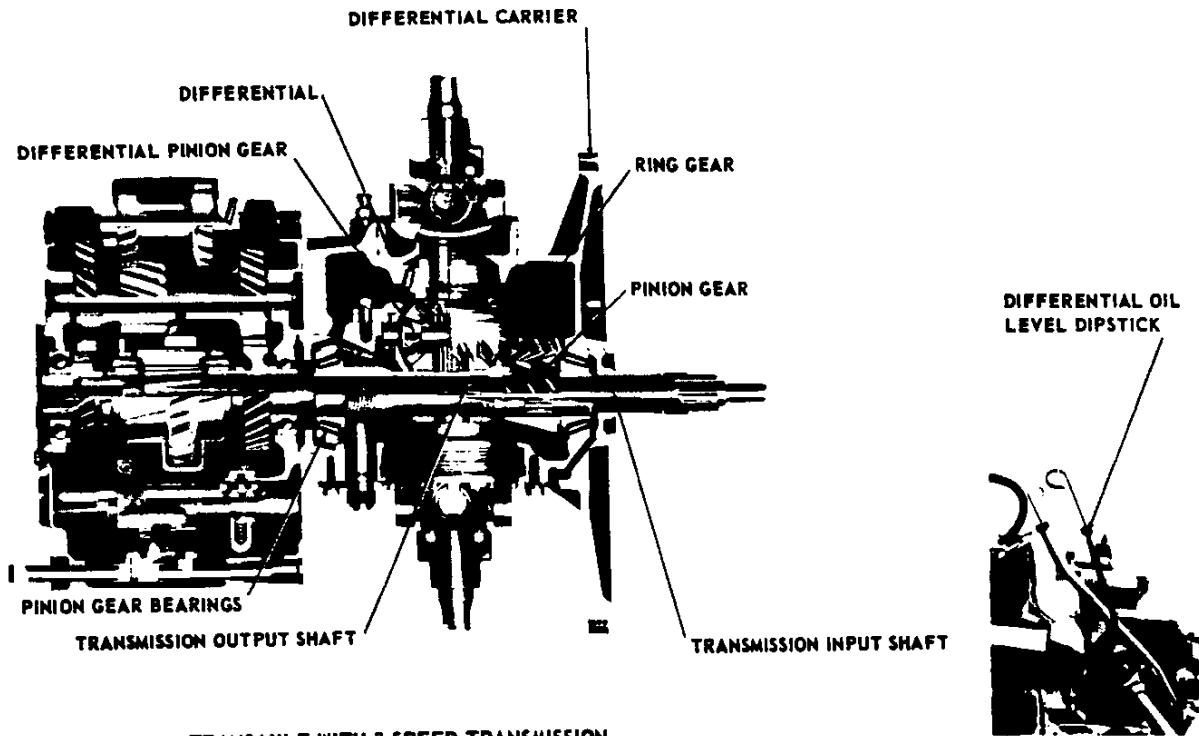
Height

Free -----	13.774
Working (inches @ lb) -----	7.45 @ 1170
Coil - 3848968	
Right hand side for models 667,967	

Same as 3848969 except as follows

Cut-off length -----	98.804
Number of coils (active, total) -----	6.50, 7.834
Wire diameter -----	.486
Outside diameter -----	4.425
Pitch diameter -----	3.939
Height	
Free -----	13.018
Working (inches @ lb) -----	7.45 @ 1030
Leaf spring (transverse)	
Type -----	Single leaf
Material -----	Chrome carbon steel, heat treated
Length, flat, between eye centers -----	45.50
Width -----	2.68
Design load @ $\ominus$ , lb @ -camber -----	915 @ .81
Deflection rate, lb per inch -----	290

# REAR AXLE



## GENERAL

Type	----- Straddle-mounted hypoid gear in rigidly mounted differential carrier. Drive pinion gear overhung and supported in two taper roller bearings.
Lubricant	
Type	--- Meeting Military Specification MIL-L-2105-B
Viscosity	----- SAE 80
Capacity (pts)	----- 4.0
Filler plug	----- 3/4 pipe plug
Regular production ratios	----- 3.27:1, 3.55:1
3.27:1 teeth combination	
Pinion gear	----- 11
Hypoid gear	----- 36
3.55:1 teeth combination	
Pinion gear	----- 9
Hypoid gear	----- 32

## DIFFERENTIAL CARRIER

General	
Offset	----- 1.75
Provision for adjustment	--- Shim between pinion gear rear bearing and pinion gear
Hypoid gear	
Outside diameter	----- 6.750
Differential	
Type	----- 2 pinion

## AXLES

Construction	----- Forged and hardened steel with drive flange forged integral
--------------	---

## BRAKES

### SERVICE BRAKES, regular production

General	
Type	Duo-servo; 4-wheel hydraulic, reverse self-adjusting
Line pressure @ 100 lb pedal load, psi	783
Braking ratios	
Pedal	6.15:1
Hydraulic	3.29:1
Overall	20.23:1
Distribution of braking effort (theoretical, percent)	
Front wheels	46
Rear wheels	54
Brake drum	
Construction Composite, web cast into rim	
Material	
Web	HR steel
Rim	Cast iron alloy
Web thickness	
Front	.094 - .114
Rear	.094 - .114
Swept drum area, sq. inches	197.7
Diameter, front and rear	9.0
Brake lining	
Material Full molded asbestos composition	
Length	
Primary shoe	8.62
Secondary shoe	9.40
Width, front and rear	1.75
Thickness, minimum @ $\phi$	
Primary	.17
Secondary	.20
Method of attachment Bonded	
Total effective area, sq. inches	126.1
Master cylinder	
Location Luggage compartment on dash panel	
Piston diameter	1.00
Piston travel (with available pedal travel)	.98
Wheel cylinders	
Location	
Front	Steering knuckle
Rear	On backing plate
Piston diameters	
Front	.875
Rear	.9375
Foot pedal	
Type	Pendant
Travel	6.00

### PARKING BRAKE

Type	Mechanical pull rod, pulleys and cables operate rear service brakes
Total effective area, sq. inches	63
Control	Hand-grip ratchet type handle with trigger-release in grip. Located under instrument panel to left of steering column.

### STOPLIGHT SWITCH

Type	Mechanical, make-break, normally on
Location	On dash panel brace
Activation	Brake pedal

## WHEELS AND TIRES

### WHEELS, regular production

Type	Short spoke full disk
Attachment to hub	4 hex nut, 7/16-20 UNF 2B, arranged on a 4.50 dia. bolt circle
Offset	1.00
Rim size	13 x 5.5J

### WHEELS, RPO-3-P45

Type	Rim and shell, spoke
Material	Steel
Rim size	13 x 5.5J
Offset	1.00
Method of retention	Adaptor and lock nut (2-5/8-8 UN 2A)

### TIRES \*

Type	Rayon tubeless, blackwall
Construction	2 ply
Size	6.50 x 13-4 PR

### Specifications

Loaded rolling radius	11.7
Loaded rev/mile	864
Capacity (lb @ psi)	835 @ 24
Recommended inflation, psi (cold)	
Front	15
Rear	26

\* Regular production shown; tire with RPO-3-P45 same as regular production except tube type.

## ELECTRICAL

LAMPS	NO. REQUIRED	TRADE NO.	CANDLE POWER PER LAMP
Automatic transmission dial indicator	1	1445	1
Back up	2	1156	32
Clock	1	1895	2
Courtesy (instru. panel)	2	631	6
Direction signal indicators	2	Except 600, 1445 Model 600, 1895	1 2
Dome	2	211	12
Fuel gage	1	1895	2
Generator and fan indicator	1	1895	2
Glove compartment	1	1895	2
Headlamps			
Outer	2	4002	High beam, 37.5W Low beam, 55.0W
Inner	2	4001	High beam, 37.5W
Headlamps hi-beam indicator	1	1445	1
Heater controls	1	1445	1
Instrument cluster	2	Except 600, 1816 Model 600, 1895	2 2
License plate, rear	1	1155	4
Luggage compartment	1	1003	15
Oil pressure and temp. indicator	1	1895	2
Parking			
Park	2	1157	4 32
Turn	2	1157	32
Parking brake alarm	1	257	2
Radio	1	1893	2
Tachometer	1	1895	2
Tail			
Tail,	2	1157	4 32
Stop and	2	1157	32
Turn	2	1157	32
Temperature gage	1	1895	2
Underhood lamp	1	93	15
Vacuum gage	1	1895	2

DEVICE PROTECTED	TYPE OF PROTECTION	LOCATION AND CIRCUIT *
Air conditioning	2 AGC 15 fuses	In line
Auto. trans. dial indicator lamp	AGC 3 fuse	Fuse panel (c)
Back up lamps	5 and 700, AGC 10 fuse 6 and 900, AGC 15 fuse	Fuse panel (d)
Cigarette lighter	AGC 10 fuse	Fuse panel (b)
Clock	AGC 10 fuse	Fuse panel (G)
Clock lamp	AGC 3 fuse	Fuse panel (c)
Courtesy lamps (instru. panel)	AGC 10 fuse	Fuse panel (G)
Direction signal indicator lamps	AGC 3 fuse	Fuse panel (c)
Dome lamp	AGC 10 fuse	Fuse panel (b)
Folding top motor	40 and CB	Instru. panel (h)
Fuel gage	5 and 700, AGC 10 fuse 6 and 900, AGC 15 fuse	Fuse panel (d)
Fuel gage lamp	AGC 3 fuse	Fuse panel (c)
Generator and fan indicator lamp	5 and 700, AGC 10 fuse 6 and 900, AGC 15 fuse	Fuse panel (d)
Glove compartment lamp	AGC 10 fuse	Fuse panel (G)
Headlamps	15 amp CB	Light switch (a)
Headlamps hi-beam indicator	15 amp CB	Light switch (a)
Heater, 5 and 700	AGC 10 fuse	Fuse panel (d)
Heater, 6 and 900	AGC 15 fuse	Fuse panel (d)
Heater control lamp	AGC 3 fuse	Fuse panel (c)

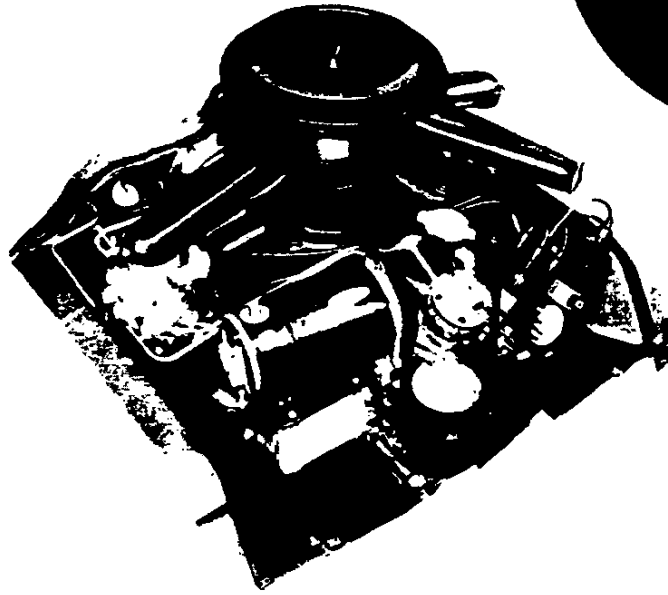
\* - Letter suffix indicates same circuit ●

Continued on page 8

DEVICE PROTECTED	TYPE OF PROTECTION	LOCATION AND CIRCUIT
Instrument cluster	AGC 3 fuse	Fuse panel (c)
License plate lamp	AGC 10 fuse	Fuse panel (b)
Luggage compartment lamp	AGC 10 fuse	Fuse panel (b)
Oil and temp. indicator lamp	5 and 700, AGC 10 fuse 6 and 900, AGC 15 fuse	Fuse panel (d)
Parking lamps	15 amp CB	Light switch (a)
Parking brake alarm lamp	5 and 700, AGC 10 fuse 6 and 900, AGC 15 fuse	Fuse panel (d)
Radio and radio lamp	AGC 2.5 fuse	Fuse panel (e)
Tachometer	AGC 15 fuse	Fuse panel (d)
Tachometer gage lamp	AGC 3 fuse	Fuse panel (c)
Tail lamps	AGC 10 fuse	Fuse panel (b)
Temp. gage and buzzer	AGC 15 fuse	Fuse panel (d)
Temperature gage lamp	AGC 3 fuse	Fuse panel (c)
Underhood lamp	AGC 4 fuse	In line
Vacuum gage lamp	AGC 3 fuse	Fuse panel (c)
W/S wiper (single-speed)	SAE 20 fuse	Fuse panel (f)
W/S wiper (two-speed)	SAE 20 fuse 14 amp CB	Fuse panel (f) Switch (L)

\* - Letter suffix indicates same circuit

# POWER TRAINS



POWER TEAM COMBINATIONS .....	2
ENGINES .....	3
CLUTCH .....	13
TRANSAXLE .....	14

FOR COMPLETE SPECIFICATIONS  
ON GREENBRIER SPORTS WAGON,  
SEE 1964 CHEVROLET TRUCK SPEC-  
IFICATIONS.

# POWER TEAM COMBINATIONS

ENGINE	EQUIPMENT	TRANSMISSION	AXLE RATIOS*		
			General Purpose Standard	Special Purpose or Mountain	High Performance
164 CUBIC INCH TURBO-AIR 95 HP 6-CYLINDER	2-SINGLE BARREL CARBURETORS HYDRAULIC LIFTERS	5.7-900 MODELS			
		3-SPEED	3.27:1	3.55:1	
		4-SPEED POWERGLIDE	3.27:1	3.55:1	
164 CUBIC INCH TURBO-AIR (RPO L62) 110 HP 6-CYLINDER	2-SINGLE BARREL CARBURETORS HYDRAULIC LIFTERS SPECIAL CAMSHAFT	5.7-900 MODELS			
		3-SPEED	3.27:1	3.55:1	
		4-SPEED POWERGLIDE	3.27:1	3.55:1	
164 CUBIC INCH TURBOCHARGED 150 HP 6-CYLINDER	SINGLE BARREL SIDE DRAFT CARBURETOR SUPERCHARGED SPECIAL CAMSHAFT	600 MODELS			
		3-SPEED and 4-SPEED			3.55:1 (Std.)

\* - POSITRACTION AXLE RATIOS AVAILABLE IN COMBINATIONS SHOWN.

## MULTIPLICATION FACTORS

### WITH MANUAL TRANSMISSIONS

ENGINE	TRANSMISSION	TOTAL GEAR REDUCTION*					AXLE RATIO	MAXIMUM AXLE TORQUE LOW GEAR - Lb-Ft §
		1st	2nd	3rd	4th	Rev		
95 HP	3-Speed	10.53	6.02	3.27		11.94	3.27	1253
	4-Speed	10.46	7.16	4.71	3.27	11.96	3.27	1245
110 HP	3-Speed	10.53	6.02	3.27		11.96	3.27	
	4-Speed	10.46	7.16	4.71	3.27	11.96	3.27	
150 HP	3-Speed	11.43	6.53	3.55	-	12.96	3.55	
	4-Speed	11.36	7.77	5.11	3.55	12.99	3.55	

### WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION*	AXLE RATIO
95 HP	Powerglide	Drive	15.47:1-3.27:1	3.27:1
		Low & Rev	15.47:1-5.95:1	
110 HP	Powerglide	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 efficiency (8.90 in direct drive, 8.85 all others).

# 164 CUBIC INCH SIX CYLINDER ENGINE

## GENERAL DATA

		Conventional	Powerglide*
Piston Displacement		164	
Type		Horizontal opposed OHV	
Number Cylinders		6	
Bore and Stroke (nominal)		3.437 x 2.94	
Compression Ratio		8.25:1 (A)	
Taxable (SAE) Horsepower		28.4	
Firing Order		1-4-5-2-3-6	
Idling Speed (RPM)		500 (B)	
Compression Press. (PSI) @ Cranking Speed, Engine Hot		140	
Lubrication		Full pressure	
Power Plant Mounting		Two front and one rear shear type	
Measurements	Width (over carburetors)	30.66 (C)	
	Length (incl. clutch hsg. & oil filter)	28.55	
	Height (top air cleaner to bottom oil pan)	23.57 (C)	

A - On Hi-Perf. 110 HP Engine C.R. is 9.25:1

B - 600 RPM on Hi-Perf. 110 HP Engine and 850 RPM on Turbocharged 150 HP Engine

C - Turbocharged 150 HP Engine - Width (induction port flange to exhaust pipe) 29.30; Height 23.31

## ADVERTISED ENGINE RATINGS

Engine		Turbo-Air 164 Standard	Turbo-Air 164 Hi-Performance RPO L-62	Turbocharged
Carburetor		Two-Single barrel (one for each cylinder bank)		One-Single barrel
Brake Horsepower	Gross	95 @ 3600	110 @ 4400	150 @ 4000
	Net	78 @ 3600		
Torque (Lb Ft)	Gross	154 @ 2400	160 @ 2800	232 @ 3200
	Net	140 @ 2400		

## ENGINE SPEED AND PISTON TRAVEL

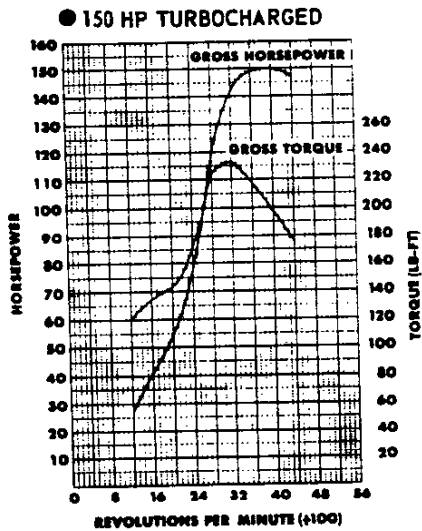
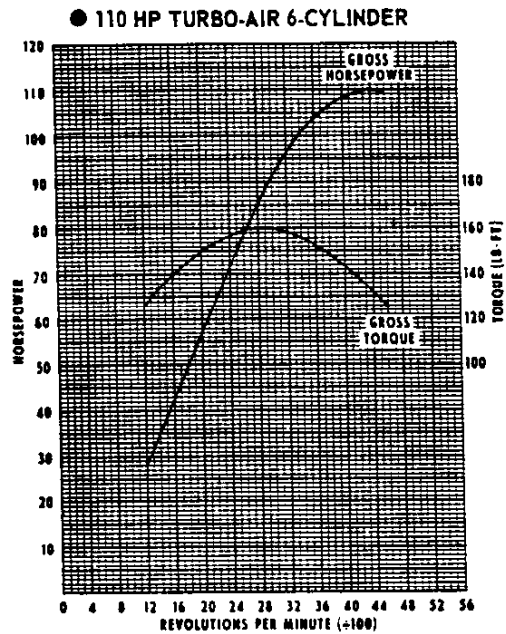
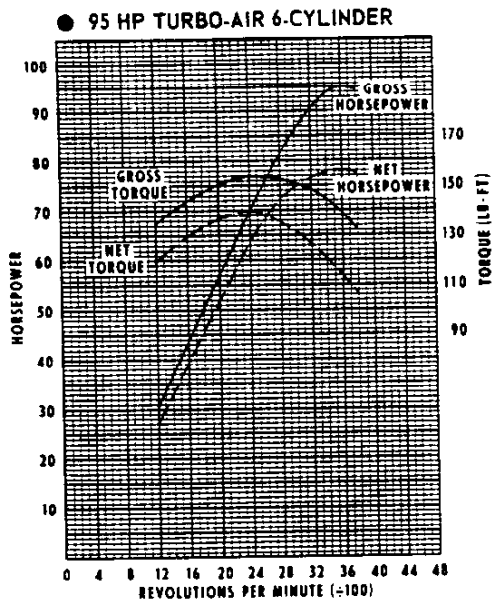
Transmission		3-Speed		4-Speed		Powerglide*	
Rear Axle Ratio		3.27:1	3.55:1	3.27:1	3.55:1	3.27:1	3.55:1
Tire Size		6.50 x 13-4 PR					
Crankshaft Revolutions per Mile		2825.3	3067.2	2825.3	3067.2	2825.3	3067.2
Crankshaft RPM @ 1 MPH	Low	151.6	164.6	150.7	163.6	85.7	93.0
	Second	86.6	94.1	103.1	111.9		
	Third	47.1	51.1	67.8	73.6	47.1(a)	51.1(a)
	Fourth			47.1	51.1		
	Reverse	151.6	164.6	172.3	187.1	85.7	93.0
Piston Travel (ft/mile)		1384.4	1502.9	1384.4	1502.9	1384.4	1502.9

\* - Powerglide not available with Turbocharged 150 HP Engine

(a) Direct drive







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 degrees 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.

# 164-CUBIC INCH SIX CYLINDER ENGINE — Cont'd.

## PRINCIPAL COMPONENTS

### CRANKCASE

Material ----- Cast Aluminum  
 Type ----- Cast into left and right halves  
 No. of Bulkheads ----- 4  
 Bolt No. & Size ----- 8; .4375 dia., 20 UNF - 2A  
 Studs (cyl. & cyl. head assy.) --- 12 left & 12 right half  
 Bore Spacing (centerline to centerline) ----- 4.85

### CYLINDERS

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

### CYLINDER HEADS

Material ----- Permanent mold cast aluminum with integral cooling fins

### COMBUSTION CHAMBER VOLUME

Base Engine ----- 3,836 cu.in.  
 Hi-Perf. Engine ----- 3,394 cu.in.  
 Turbocharged Engine ----- 3,919 cu.in.

### INLET MANIFOLD

Type ----- Cast integral with cylinder head

### EXHAUST MANIFOLD

Material ----- Cast alloy iron  
 Type ----- Straight-fitted to three steel sleeves pressed into cyl. head exhaust ports

### CRANKSHAFT

Material ----- Forged alloy steel  
 End Play ----- .002-.006  
 Counterweights ----- None  
 Crank Arm Length ----- 1.97  
 Vibration damper ----- Harmonic balancer on all engine combinations except on regular engine with synchromesh transmission  
 Timing Gear & Material ----- Helical cut, steel  
 Pulley Pitch Diameter ----- 6.64

### MAIN BEARINGS

Material ----- Premium aluminum  
 Type ----- Precision, removable  
 Thrust Against Bearing No. ----- 1  
 Clearance ----- .0012-.0037

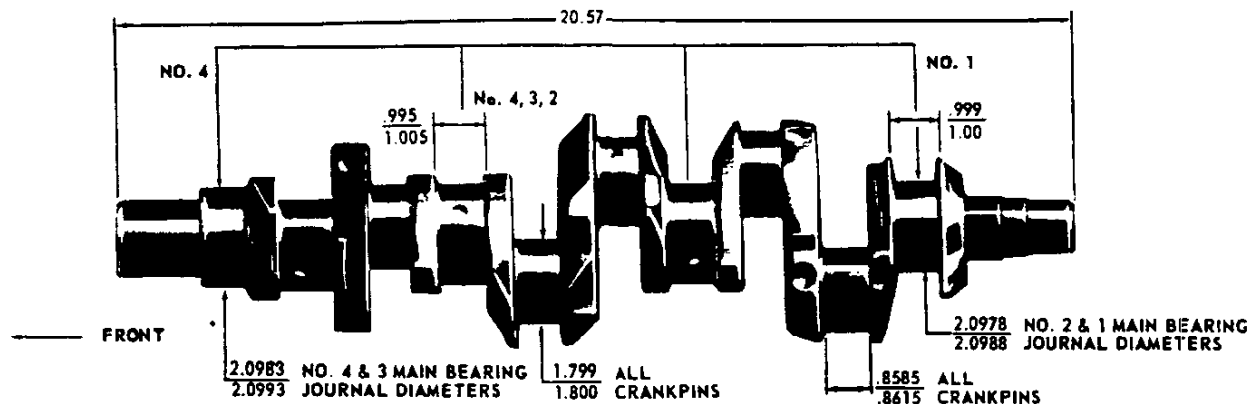
Dimensions Bearing	Theoretical Inner Dia.	Effective Length	Projected Area
1	2.1008	.785	1.6491
2	2.1008	.752	1.5798
3-4	2.1018	.752	1.5805

### CAMSHAFT

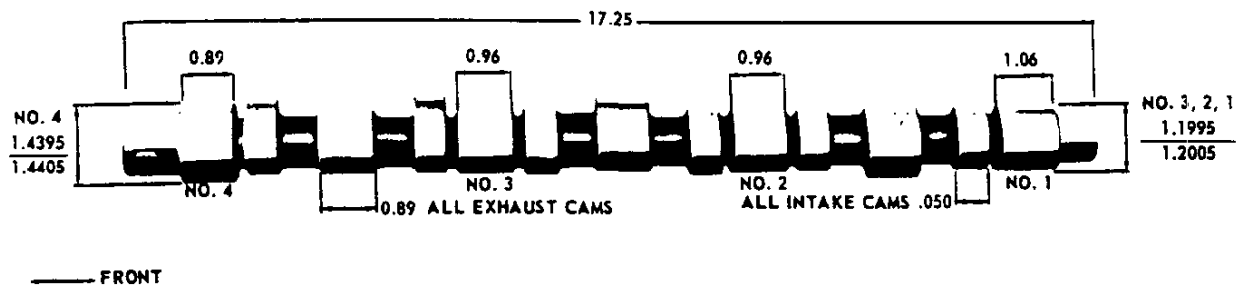
Material ----- Cast alloy iron  
 Lobe Lift  
 Inlet & Exhaust  
 Base Engine ----- .2567  
 Hi-Performance & Turbocharged Engines --- .2605

BEARINGS ----- No inserts aluminum crankcase machined for bearing surface

### CRANKSHAFT AND BEARINGS



### CAMSHAFT AND BEARINGS



PRINCIPAL COMPONENTS - Continued

VALVE TRAIN

- Type ----- Individually mounted rocker arms, push rod actuated
- Lifters ----- Hydraulic
- Push Rods
  - Type & Material ----- Hollow, steel
  - Ends ----- Hardened
- Housing ----- Welded steel tubes
- Rocker Arms
  - Type & Material ----- Stamped steel
  - Ratio ----- 1.57:1; Hi-Perf & T/Chgd 1.5:1

VALVES (See Turbocharged information below)

- Inlet Material ----- High alloy steel
- Coating ----- Aluminized valve face
- Exhaust Material ----- High alloy steel with "cobalt-based alloy" face
- Valve Guides ----- Cast alloy iron
- Valve Seat Insert Material
  - Inlet ----- Cast nickel steel alloy
  - Exhaust ----- Cast chromium steel alloy

VALVES - TURBOCHARGED (Same as above except)

- Exhaust Valves ----- Two piece welded Material
- Head, Face & Neck ----- Super alloy (Nimonic 80A)
- Stems ----- Silicon & chromium alloy steel
- Exhaust Valve Guides ----- Heavy duty
- Material ----- Aluminum bronze alloy

VALVE SPRINGS

- Diameter (I.D.) ----- .872-.888
- Installed Length (In. @ Lb.)
  - Valves Closed ----- 1.660 @ 78-86
  - Valves Opened ----- 1.260 @ 170-180
  - Free Length ----- 2.08
- Valve Spring Dampers ----- Flat steel coil

VALVE LIFT

- Inlet & Exhaust
  - Base Engine ----- .4030
  - Hi-Performance of Turbocharged Engines ----- .3907

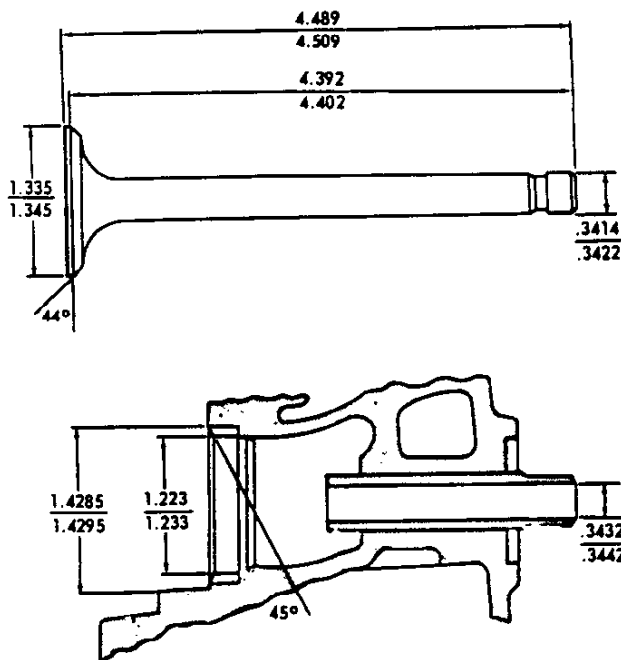
VALVE TRAIN LASH

- Inlet & Exhaust ----- Zero

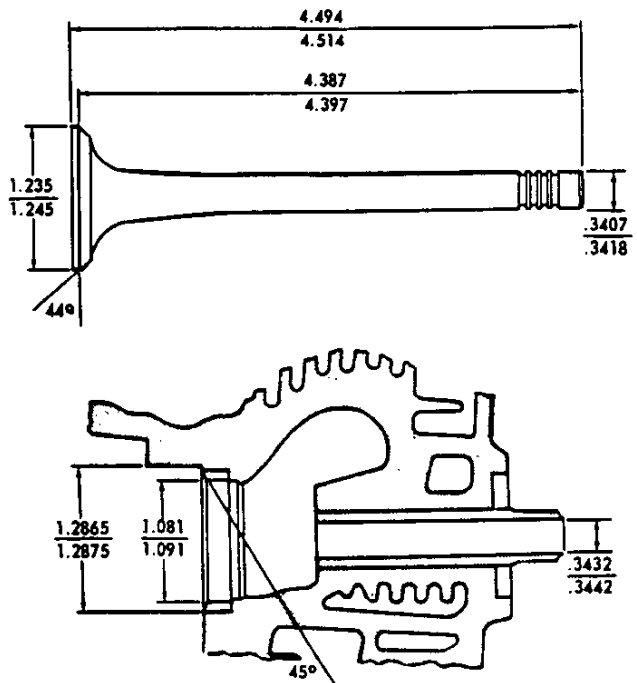
VALVE TIMING

	Base Engine		Hi-Perf. & T/Chgd.	
	Excl. Ramps	Incl. Ramps	Excl. Ramps	Incl. Ramps
<b>Inlet Valve</b>				
Opens - BTC	26°	44°	37°	55°
Closes - ABC	60°	88°	81°	105°
Duration	266°	312°	298°	340°
<b>Exhaust Valve</b>				
Opens - BBC	60°	78°	79°	97°
Closes - ATC	26°	54°	39°	63°
Duration	266°	312°	298°	340°

INLET VALVE



EXHAUST VALVE





## SUPERCHARGER

### SUPER CHARGER

Type ----- Turbo-Supercharger  
 (Turbine driven compressor)  
 Make ----- Thompson  
 Turbine ----- Single-stage, in flow type  
 Material ----- High temperature cobalt base alloy  
 Diameter (in) ----- 2.97  
 Blades ----- 11, equally spaced  
 Drive ----- Engine exhaust gases  
 Compressor ----- Centrifugal impeller  
 Material ----- Die cast aluminum alloy  
 Diameter (in) ----- 3.00

Blades ----- 14, equally spaced  
 Drive ----- Solid shaft from turbine  
 Bearing ----- One piece floating bushing  
 Material ----- Aluminum alloy  
 Lubrication ----- Engine oil full pressure

### INDUCTION CROSSOVER TUBE

Function ----- Fuel-air mixture drawn  
 from the single barrel carburetor by the  
 supercharger and expelled into the induction  
 crossover tube which supplies each cylinder  
 bank

## EXHAUST and VENTILATION - REGULAR

### GENERAL

Type ----- Single

### MUFFLER

Type ----- Oval, reverse flow  
 Construction ----- Heads and body joined  
 by rolled lock seam construction  
 Shell ----- .036 cold rolled steel  
 Wrap ----- .030 indented asbestos sheet  
 Cover ----- .018 sheet steel, aluminum coating  
 Heads ----- .060 sheet steel, aluminum coating  
 ● Baffles ----- 3; 1 & 2 .036 cold roll steel,  
 3rd - Regular .060, Hi-Perf .036 cold rolled steel  
 Length, Body ----- 17.76  
 Height (I.D.) ----- 9.25  
 Width (I.D.) ----- 5.00

### EXHAUST PIPE

Dimensions (O.D.) ----- Branches 1.375; Main 1.875  
 Wall Thickness ----- .067-.081

### TAIL PIPE

● Dimensions (O.D.) ----- 1.50; Hi-Perf 1.75  
 Wall Thickness ----- .0480  
 Coating ----- Aluminum

### ENGINE VENTILATION (Same for Turbocharged)

● Type ----- Closed-Positive;  
 fumes withdrawn into induction system

## EXHAUST and VENTILATION - TURBOCHARGED

### EXHAUST PIPE

Dimensions (O.D.) ----- Branches 1.375; Main 1.875  
 Wall Thickness ----- .081-.097

### SUPERCHARGER INLET PIPE

Dimensions (O.D.) ----- 1.875  
 Wall Thickness ----- .081-.097

### SUPERCHARGER OUTLET PIPE

Dimensions (O.D.) ----- 2.50  
 Wall Thickness ----- .067-.081

### MANIFOLD HEAT SHIELD FOR SPARE WHEEL

Location ----- Bracketed to supercharger  
 outlet pipe and supercharger assembly  
 Material ----- .026 Stainless steel

### MUFFLER

Type ----- Oval, reverse flow  
 Construction ----- Heads and body joined by  
 rolled lock seam construction  
 Shell ----- .036 sheet steel, aluminum coating  
 Wrap ----- .030 indented asbestos sheet  
 Cover ----- .018 sheet steel, aluminum coating  
 Heads ----- .048 sheet steel, aluminum coating  
 Baffles ----- 3; .036 sheet steel, aluminum coating  
 Length, including pipe extensions ----- 17.88  
 Width (I.D.) ----- 5.00  
 Height (I.D.) ----- 9.25

### TAIL PIPE

Dimensions (O.D.) ----- 2.50  
 Wall Thickness ----- .042-.052  
 Coating ----- Chrome plate

# 164-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 ----- Conn. rod bearing throw-off  
 Camshaft Bearings ----- Pressure  
 Valve Lifters ----- Pressure  
 Rocker Arms ----- Pressure  
 Timing Gears ----- Main & cam bearing throw-off  
 Oil Pressure Sending Unit  
 Type ----- Electric  
 Actuation ----- Opens or closes circuit @ 2 to 6 PSI  
 Oil Filler  
 Cap ----- Pressure, twist type  
 Location ----- Top rear of engine

### CRANKCASE CAPACITY (Qt)

Refill ----- 4.0  
 Refill with Filter Change ----- 4.5

### OIL PUMP

Type ----- Gear  
 Driven By ----- Distributor  
 Regulator Valve ----- Opens between 40-45 lbs  
 Oil Pressure @ 2000 RPM ----- 30 PSI  
 Intake Type ----- Fixed  
 Capacity (GPM @ Eng RPM) ----- 9 @ 4000

### OIL FILTER

Make ----- AC  
 Type ----- Full flow throwaway cannister  
 Location ----- Rear section of engine  
 Capacity (Pts) ----- 1.0  
 By-Pass Valve ----- Opens between 9 to 11 PSI

### OIL COOLER

Make ----- Harrison  
 Material ----- Aluminum  
 Location ----- Left bank of cylinder to rear  
 By-Pass Valve ----- Opens between 9 to 11 PSI  
 drop in pressure  
 No. of Plates ----- 8; Turbocharged 12

### LUBRICANT GRADES AND TEMPERATURES

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

### OIL PAN DRAIN SCREW

Type ----- Hex head  
 Location ----- Lower front edge of oil pan  
 Size Hex Head ----- .860-.875  
 Thread ----- 1/2-20 UNF 2A  
 Length ----- 0.81  
 Diameter ----- .410-.430

## 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 ----- Magnesium  
 Diameter ----- 11.20  
 Number of Vanes ----- 11

Drive ----- By "V" belt from crankshaft over idler and generator pulleys  
 Air flow ----- 1460 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 Line ----- 56  
 Width ----- .380  
 Angle of "V" ----- 40°

### ENGINE COOLING AIR THERMOSTATS

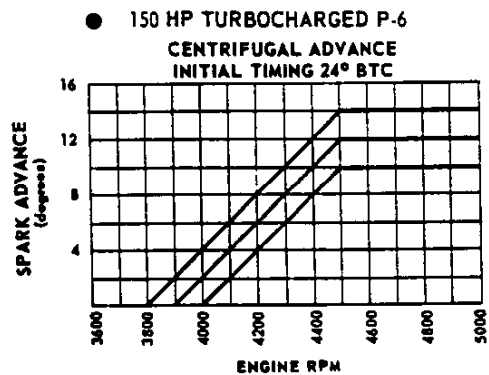
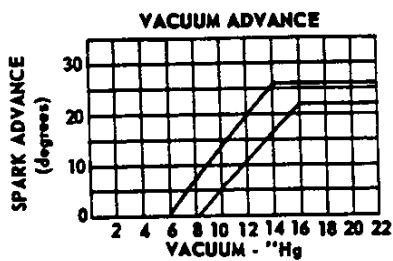
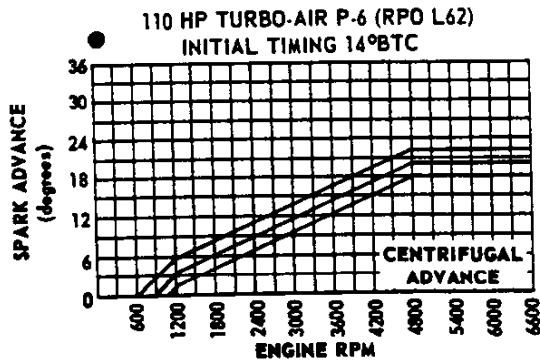
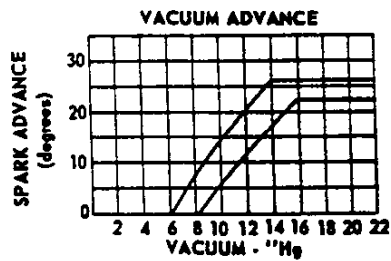
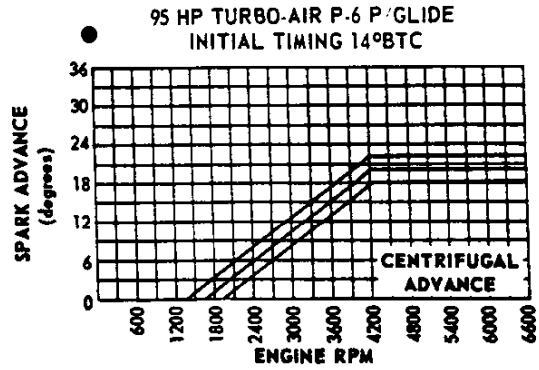
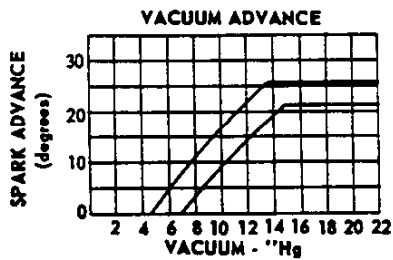
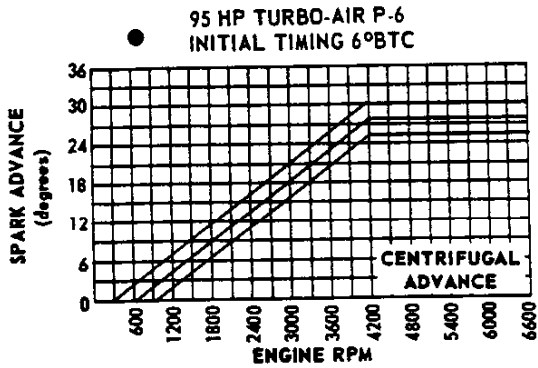
Type ----- Bellows (seamless)  
 Make ----- Harrison  
 Bellows start to open at ----- 205°F



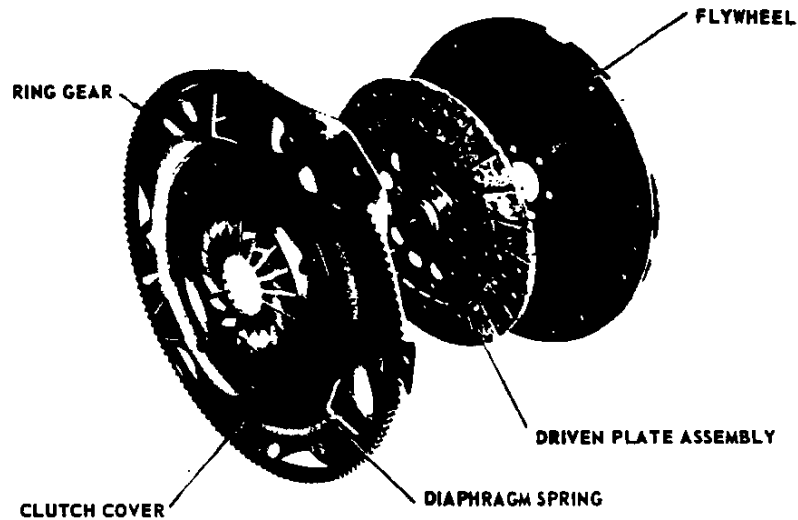


# 164 CUBIC INCH SIX CYLINDER ENGINE - Cont'd.

## ELECTRICAL SYSTEM - Continued

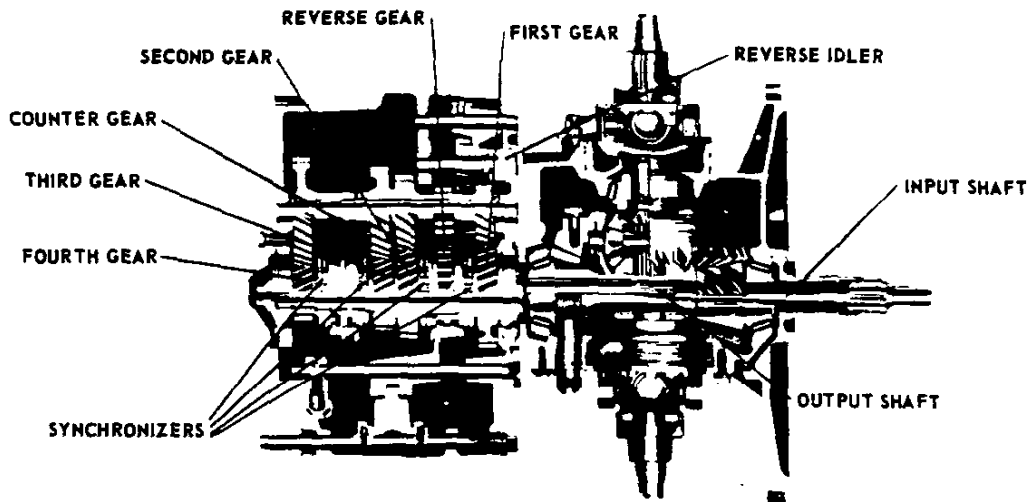


## CLUTCHES



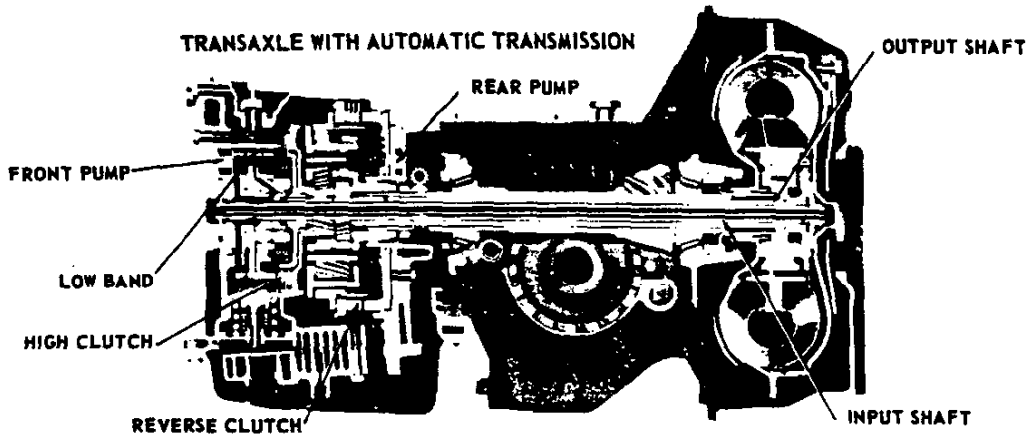
ENGINE	Name		Turbo-Air 164		Turbocharged 164	
		Horsepower	95	110	150	
		Displacement, inches	164			
TRANSMISSION			3-Speed 4-Speed			
CLUTCH ASSEMBLY						
Type			Single dry disc, centrifugal			
Clutch cover and pressure plate assembly	Effective plate load, lb		1250-1450		1275-1475	
	Type of drive		Steel straps			
	Pressure plate	Material	Cast iron		Nodular or perlitic malleable iron	
		OD	9.28			
	Clutch spring	Type	Diaphragm, bent finger design			
		Material	HR spring steel			
	Ring gear	Material	HR steel			
		No. of teeth	147			
		Face width	.363-.387			
		PD	12.25			
Attachment		Welded to clutch cover				
Attachment to fly/w		6 bolts, 5/16-18, .82 long; bolt circle dia 10.625				
Drive plate assembly	Type		Single disc with two friction surfaces			
	Cushions		Flat spring steel between rings			
	Friction ring	Material	Woven asbestos			
		OD	8.00	9.12		
		ID	6.00	6.12		
		Total area (sq. inches)	44.00	71.8		
		Width (ea.)	.135			
Flywheel	Material	Cast iron				
	OD	11.6				
Bearings	Release	Type	Single row ball			
		Lubrication	Packed with temperature high viscosity grease			
	Pilot	Type	Sintered powdered bronze bushing			
		Lubrication	Oil impregnated			
Controls	Clutch fork	Drop forged steel, pivot mounted on ball				
	Pedal mounting	Pendent, from brace on dash				
Clutch housing	Material	Aluminum alloy				
	Attachment to engine	9 bolts, 3/8-16 UNC 2A: 7 short, 1-3/8 shank; 2 long, 1-5/8 shank				

# TRANSMISSIONS



TRANSAXLE WITH 4-SPEED TRANSMISSION

ENGINE	Name	Turbo-Air 164		Turbocharged 164		Turbo-Air 164		Turbocharged 164		
	Horsepower	95	110	150		95	110	150		
Displ., inches		104								
TRANSMISSION TYPE		3-SPEED				4-SPEED				
Case material		Cast iron alloy								
Gear-shift	Control	Remote								
	Type	Lever								
	Location	Floor mounted								
Gears	Type	Helical				Helical except spur for reverse				
	Material	Forged steel, hardened								
	Synchronization	2nd and 3rd				All forward gears				
	Constant mesh gears	2nd and 3rd				All forward gears				
	Sliding gears	1st and reverse				Reverse				
	Ratio	First	3.22				3.20			
		Second	1.84				2.19			
		Third	1.00				1.44			
		Fourth	--				1.00			
		Reverse	3.22				3.66			
Lubri-cant	Type; Viscosity	Meeting military specification MIL-L-2105-B; SAE 80								
	Capacity (pts.)	2.2				3.6				



## AUTOMATIC TRANSMISSION - RPO 3-M35

### GENERAL DATA

Type ----- Automatic hydraulic torque converter with planetary gear system for low and reverse

Selector lever  
 Location ----- Instrument panel  
 Operation ----- Actuates manual valve in hydraulic control system

Quadrant positions ----- L-D-N-R

Method of cooling ----- Cooling shroud welded to pump housing

Flywheel ----- Ring gear welded to converter housing

### HYDRAULIC CONTROLS

Manual valve type ----- Spool

Pressure regulator valve type ----- Spool

● Pressure range, psi @ idle

Drive  
 Minimum and maximum ----- 37,0 to 45,0

Low  
 Minimum and maximum ----- 37,0 to 45,0

Reverse  
 Minimum and maximum ----- 70,3 to 86,0

### CONVERTER ASSEMBLY

Type ----- Three element

Pump  
 Description ----- Multi-vane sheet steel construction rigid in converter housing

Turbine  
 Description ----- Multi-vane sheet steel construction supported in converter housing

Stator  
 Description ----- Aluminum air foil supported on stationary sleeve by an over-running clutch

Stall torque ratio ----- 2.60:1

Diameter (nominal) ----- 10.0

### PLANETARY GEAR SET

Type ----- Compound planetary

Range  
 Drive ----- 1.82:1 to 1.0:1,0  
 Low ----- 1.82:1  
 Reverse ----- 1.82:1

Low band ----- Three linked circular segments

Low band servo ----- Piston with release spring and inner cushion spring

### CASE

Material ----- Aluminum

### ● OUTPUT SHAFT RPM (VEHICLE SPEED MPH)

N/V factor ----- 45.8

Upshift  
 Closed throttle ----- 677(15)  
 Detent touch ----- 1809(40)  
 Full detent ----- 2230(49)

Downshift  
 Closed throttle ----- 606(13)  
 Detent touch ----- 1298(28)  
 Full detent ----- 2055(45)

### HIGH CLUTCH

Type ----- Multi-disc

Drive plates  
 Description ----- Waved steel with bonded organic facings

Number ----- 2

Driven plates  
 Description ----- Flat steel

Number ----- 3

### REVERSE CLUTCH

Type ----- Multi-disc

Drive plates  
 Description ----- Flat steel with bonded organic facings

Number ----- 3

Driven plates  
 Description ----- Waved steel

Number ----- 3

### TORQUE MULTIPLICATION

Maximum overall ratio ----- 4.73:1

Low and reverse ----- 4.73:1 to 1.82:1

### LUBRICANT

Type ----- A, suffix A

Capacity (pts.)  
 Dry ----- 13  
 Refill ----- 6

### GOVERNOR

Type ----- Centrifugal

Operation ----- Regulates oil pressure to automatic shift control valve

Drive ----- Transmission output shaft

Location ----- External, upper left side of case

### OIL PUMPS

Type ----- Internal-external gear

Number ----- Two, front and rear

Function ----- To supply pressure

Front pump  
 Drive ----- Converter pump  
 Function ----- Supply main system pressure at low vehicle speeds

Rear pump  
 Drive ----- Output shaft  
 Function ----- Supply main system pressure at high vehicle speeds and during push starts



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# AMA Specifications — Passenger Car

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

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

## NOTES

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

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Electrical . . . . . 10	Front Suspension & Steering . . 19	Station Wagon . . . . . 31	Index . . . . . 37

## 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

### 600 Series - Monza Spyder

627 2-Door Club Coupe, 4-Passenger

667 2-Door Convertible, 4-Passenger

### 700 Series

769 4-Door Sedan, 6-Passenger

### 900 Series - Monza

927 2-Door Club Coupe, 4-Passenger

967 2-Door Convertible, 4-Passenger

969 4-Door Sedan, 5-Passenger

# AMA Specifications — Passenger Car

Page 1

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

## GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page Nos.	5-7-900	5-7-900	627-667
		Std. Engine	Hi-Perf. Eng.	Turb/Chgd. Engine
Wheelbase (L101)	23	108.0		
Track	Front (W101)	54.4		
	Rear (W102)	55.1		
Maximum Overall Dimensions	Length (L103)	180.0		
	Width (W103)	67.0		
	Height (H101)	Sedans 51.5	Coupes 51.4	Convertible 54.1
Transmission (Specify trade name - opt., not available)	Manual	Synchronesh - 3-Speed Standard, 4-Speed Optional		
	Overdrive	Not Offered		
	Automatic	Powerglide - Optional Except Turbocharged Engine		
Axle ratio	Manual	All except 600 Models: 3-Speed and 4-Speed, 3.27:1; Model 600: 3-Speed and 4-Speed, 3.55:1		
	Overdrive	--		
	Automatic	With Reg. Production Engine, 3.27:1; With Hi-Performance Engine, 3.55:1		
Tire size	18	6.50 x 13		
Engine	Type, no. cyl., valve arr.	Horizontal opposed, 6 Cyl, OHV Air cooled.		
	Fuel system (Carb., other)	Carburetor		
	Bore and stroke	3.4375 x 2.94		
	Piston displ., cu.in.	164		
	Std. compression ratio	8.25:1	9.25:1	8.25:1
	Max. bhp at engine rpm	95 @ 3600	110 @ 4400	150 @ 4000
	Max. torque at rpm	154 @ 2400	160 @ 2800	252 @ 3200

# AMA Specifications—Passenger Car

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

## ENGINE—GENERAL

<b>Type, no. cyls., valve arr.</b>		Horizontal opposed, 6-cylinder OHV					
<b>Bore and stroke (nominal)</b>		3.4375 x 2.94					
<b>Piston displacement, cu. in.</b>		164					
<b>Bore spacing (C/L to C/L)</b>		4.85					
<b>No. system (front to rear)</b>	L. Bank	6-4-2					
	R. Bank	5-3-1					
<b>Firing order</b>		1-4-5-2-3-6					
<b>Compress. ratio (nominal)</b>		8.25:1	9.25:1			8.25:1	
<b>Cylinder Head Material</b>		Cast Aluminum					
<b>Cylinder Block Material</b>		Cast Aluminum					
<b>Cylinder Sleeves—Wet, dry, none</b>		None					
<b>Number of mounting points</b>	Front	Two					
	Rear	One					
<b>Engine installation angle</b>		2° 33'					
<b>Taxable horsepower</b>		Dia. 2 x No. Cyl. 2.5		28.4			
<b>Published max. bhp* @ eng. RPM</b>		95 @ 3600	110 @ 4400			150 @ 4000	
<b>Published max. torque* (lb. ft. @ RPM)</b>		154 @ 2400	160 @ 2800			232 @ 3200	
<b>Recommended fuel regular - premium</b>		Regular			Premium		
<b>Idle speed (spec. neutral or drive)</b>	Manual	500 in Neutral		600 in Neutral		850 in Neutral	
	Automatic			500 in Drive			

## ENGINE—PISTONS

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

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

(a) - Measured 2.01 from top of piston.



# AMA Specifications – Passenger Car

**MAKE OF CAR** CORVAIR **MODEL YEAR** 1964 **DATE ISSUED** 9-23-63 **REVISED(6)** 12

## POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO # (Std. first)		
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		A	B	C
500-700-900	164	Two 1 Bbl. Down- draft	8.25:1	95 @ 3600	154 @ 2400	3 Speed 4 Speed * Powerglide *	3.27:1	3.55:1	--
500-700-900 Hi-Perf. Engine	164	Two 1 Bbl. Down- draft	9.25:1	110 @ 4400	160 @ 2800	3 Speed 4 Speed * Powerglide *	3.27:1 3.55:1	3.55:1	--
627 & 667 Turbo/Chgd.	164	1 Bbl. Side- draft	8.25:1	150 @ 4000	232 @ 3200	3 Speed 4 Speed *	---	---	3.5 (St)

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

# AMA Specifications – Passenger Car

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

## ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	None
Compression	Description - material, type, coating, etc.	Cast Alloy Iron - inside bevel or counter bore Upper Ring - Chrome plated Lower Ring - Wear resistant coating
	Width	.0620 - .0625
	Gap	.010 - .020
	Expanders	In oil ring assembly
Oil	Description - material, type, coating, etc.	Multi-piece (2 rails and one spacer expander) Rails - Chrome plated O. D. Spacer expander - Steel
	Width	.1215 - .1255 (assembled)
	Gap	.015 - .055
	Expanders	In oil ring assembly

## ENGINE—PISTON PINS

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

## ENGINE—CONNECTING RODS

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

# AMA Specifications—Passenger Car

<b>MAKE OF CAR</b>	CORVAIR	<b>MODEL YEAR</b>	1964
		<b>DATE ISSUED</b>	9-23-63
		<b>REVISED</b>	(a)12-3-66
<b>MODEL</b>	5-7-900	5-7-900	627 - 667
	Std. Engine	Hi-Perf. Engine	Turbo/Chgd. Engine

## ENGINE—CRANKSHAFT

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

## ENGINE—CAMSHAFT

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

## ENGINE—VALVE SYSTEM

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

(Continued)

# AMA Specifications—Passenger Car

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

## ENGINE—VALVE SYSTEM (cont.)

Timing *	Intake	Opens (°BTC)	44°	55°	
		Closes (°ABC)	88°	105°	
		Duration - deg.	312°	340°	
	Exhaust	Opens (°BBC)	78°	97°	
		Closes (°ATC)	54°	63°	
		Duration - deg.	312°	340°	
	Valve opening overlap		98°	118°	
Intake	Material		High Alloy Steel-Aluminized face		
	Overall length		4,4891 - 4,5091		
	Actual overall head dia.		1,335 - 1,345		
	Angle of seat & face		45° (seat) 44° (face)		
	Seat insert material		Cast nickel steel alloy		
	Stem diameter		.3414 - .3422		
	Stem to guide clearance		.0010 - .0028		
	Lift (@ zero lash) ●		.4030 (theoretical)	.3907 (theoretical)	
	Outer spring press. and length	Valve closed (lb. @ in.)	78-86 @ 1.660		
		Valve open (lb. @ in.)	170-180 @ 1.260		
	Inner spring press. and length	Valve closed (lb. @ in.)	Spring Damper		
		Valve open (lb. @ in.)	Spring Damper		
	Exhaust	Material		(b)	(a)
		Overall length		4,4941 - 4,5141	
		Actual overall head dia.		1,235 - 1,245	
Angle of seat & face		45° (seat) 44° (face)			
Seat insert material		Cast chromium steel alloy			
Stem diameter		.3407 - .3418			
Stem to guide clearance		.0014 - .0035			
Lift (@ zero lash) ●		.4030 (theoretical)	.3907 (theoretical)		
Outer spring press. and length		Valve closed (lb. @ in.)	78-86 @ 1.660		
		Valve open (lb. @ in.)	170-180 @ 1.260		
Inner spring press. and length	Valve closed (lb. @ in.)	Spring Damper			
	Valve open (lb. @ in.)	Spring Damper			

## ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Main & Cam frt. brg. throw off
	Cylinder walls	Conn. rod brg. throw off

\* - Including Ramps

(Continued)

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

Stem - Silicon & chromium alloy steel

# AMA Specifications – Passenger Car

<b>MAKE OF CAR</b> <u>CORVAIR</u>	<b>MODEL YEAR</b> <u>1964</u>	<b>DATE ISSUED</b> <u>9-23-63</u>	<b>REVISED</b> <sup>(*)</sup>
	5-7-900	5-7-900	627-667
<b>MODEL</b>	Standard Engine	Hi-Perf. Engine	Turbo/Chgd. Engine

## ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	30 @ 2000
Oil pressure sending unit (elect. or mech.)	Electric
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, partial, other)	Full Flow
Filter replacement (element, complete)	Complete
Capacity of crankcase, less filter-refill (qt.)	4.0
Oil grade recommended (SAE viscosity and temperature range)	32° F and Above ..... SAE 30 10° F to 32° F ..... SAE 10W Below 10° F ..... SAE 5W-20 Note: Always use SAE 30 if daytime Temp. is above 60°F
Engine Service Requirement (MM, MS, etc.)	

## ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single with crossover	
Muffler No. & type (reverse flow, straight thru, separate resonator)	One, reverse flow, diffusion and resonance	
Exhaust pipe dia. (O.D.) wall thickness	Branch 1.375 x .067-.081	1.375 x .081-.097
	Main 1.875 x .067-.081	1.875 x .081-.097
Tail pipe diameter (O.D. & wall thickness)	1.75 x .0480	2.50 x .042-.052

## ENGINE—CRANKCASE VENTILATION SYSTEM

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

# AMA Specifications— Passenger Car

Page 8

MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED (•) 12-3-63

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

## ENGINE—FUEL SYSTEM

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

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

## CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
500-700-900 (Std. Engine)	164	3 Spd & 4 Spd Powerglide	Rochester	7024023	2*	1.25
			Rochester	⑦024023		
500-700-900 (Hi-Perf. Engine)	164	3 Spd, 4 Spd Powerglide	Rochester	7024024	2*	1.25
			Rochester	7024022		
627-667 Turbo/Chg Engine	164	3 Spd & 4 Spd.	Carter	3844233	1#	1.50

- \* - One for each cylinder bank; Single barrel downdraft
- # - Single barrel (triple venturi) sidedraft
- (A)- See supplement to page 8 for detail
- (B)- Throw-away in line (paper element) located between fuel pump and carburetor

AMA Specifications – Passenger Car Supplement to Page 8

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

**SUPPLEMENTARY INFORMATION**

MODEL Corvair Monza Spyder 627-667

**Super Charger**

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

Make ----- Thompson

Turbine ----- Single Stage, In-Flow Type

Material ----- High Temperature Cobalt Base Alloy

Diameter (in.) ----- 2.97

Blades ----- 11, Equally Spaced

Drive ----- Engine Exhaust Gases

Compressor ----- Centrifugal Impeller

Material ----- Die Cast Aluminum Alloy

Diameter (in.) ----- 3.00

Blades ----- 14, Equally Spaced

Drive ----- Solid Shaft from Turbine

Bearing ----- One Piece Floating Bushing

Material ----- Aluminum Alloy

Lubrication ----- Engine Oil, Full Pressure

# AMA Specifications – Passenger Car

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

**MAKE OF CAR** \_\_\_\_\_

**MODEL** \_\_\_\_\_

## ENGINE—COOLING SYSTEM

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

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



# AMA Specifications – Passenger Car Supplement to Page 9

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

## SUPPLEMENTARY INFORMATION

MODEL 500-600-700-900

### ENGINE - COOLING SYSTEM

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

# AMA Specifications – Passenger Car

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

## ELECTRICAL—SUPPLY SYSTEM

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

## ELECTRICAL—STARTING SYSTEM

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

(Continued)

# AMA Specifications – Passenger Car

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**MAKE OF CAR** CORVAIR **MODEL YEAR** 1964 **DATE ISSUED** 3-29-63 **REVISED** (a) 12-3-63

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

## ELECTRICAL—STARTING SYSTEM (cont.)

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

## ELECTRICAL—IGNITION SYSTEM

<b>Coil</b>	Make	Delco - Remy				
	Model	#1115135			#1115172	
	Amps	Engine stopped	4.0			
	Engine idling	1.8				
<b>Distributor</b>	Make	Delco - Remy				
	Model	#1110310	#1110311	#1110319	#1110314	
	Cent'figal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	700	1700	800	3900
		Intermediate points deg. @ rpm				
	Max deg. @ rpm	28 @ 4200	20 @ 4200	20 @ 4800	12 @ 4500	
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	6.00	7.00		1.00 (a)
		Intermediate points, deg @ in Hg				
	Max. deg. in. Hg.	2.24 @ 14.00	.24 @ 15.00		8* Retard @ 3.25 (a)	
	Breaker gap (in.)	.019				
	Cam angle (deg.)	31 - 34				
Breaker arm tension (oz.)	19 - 23					
<b>Timing</b>	Crankshaft deg. @ rpm. $\Phi$	6° @ 500	14° @ 500	14° @ 600	24° @ 850	
	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				
<b>Spark Plug</b>	Make and model	AC 46-FF		AC 44-FF		
	Thread (mm)	14				
	Tightening torque (lb. ft.)	25				
	Gap	.035 - .040				
<b>Cable</b>	Conductor type	Linen core impregnated with electrical conducting material				
	Insulation type	Rubber with neoprene jacket				
	Spark plug protector	Neoprene				

## ELECTRICAL—SUPPRESSION

Locations & type	Non - Metallic high tension ignition cable
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(a) No vacuum advance - Unit operates on positive pressure.

# AMA Specifications – Passenger Car

MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED (\*)12-2-63

MODEL 5-6-7-900

ALL MODELS EXCEPT AS INDICATED

## ELECTRICAL—INSTRUMENTS AND SWITCHES

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

(a) Optional, All Models

(e) Optional on Models 667, 967

(b) 600 Series only

(c) Standard on 6-900 Models

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

# AMA Specifications – Passenger Car

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

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

## ELECTRICAL—LAMP BULBS

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

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

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

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

- (a) Reg. Prod. on 6 & 900
- (b) Reg. Prod. on Convertibles

### Regular Production Lamp Bulbs Continued

Model 600 Only

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

# AMA Specifications – Passenger Car

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

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

## ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

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

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

## ELECTRICAL—LOCATION OF OUTSIDE LAMPS

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

\* If single headlamps are used enter here.

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

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

# AMA Specifications – Passenger Car

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

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

## DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Chevrolet, Single Dry Disk, Centrifugal	
Type pressure plate springs	Diaphragm, Bent Finger Design	
Effective plate pressure (lb.)	Except turbocharged, 1250-1450; Turbocharged, 1275-1475	
No. of clutch driven discs	One with two friction surfaces	
Clutch facing	Material	Woven asbestos
	Outside & inside dia.	8.0, 6.0 except Turbocharged, 9.12, 6.12
	Total eff. area (sq.in.)	44.0 except Turbocharged, 71.8
	Thickness	135 ea., unloaded
	Engagement cushioning method	Flat spring steel between facings
Release bearing	Type & method of lubrication	Single row ball, packed and sealed
Torsional damping	Methods: springs, friction material	None

## DRIVE UNITS—TRANSMISSIONS

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

## DRIVE UNITS—MANUAL TRANSMISSION

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

# AMA Specifications – Passenger Car

MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED (a) 12-2-63

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

## DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE NOT OFFERED

For transmission data see manual transmission section

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

## DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Powerglide	
Type describe	Torque Converter with Planetary Gears	
Method of Selection (Lever, Push Button or other)	Lever	
Selector Pattern	<del>1-2-3-4</del>	
List gear ratios Selector Pattern and Indicate which are used in each selector position	D-1.82:1 and 1.00:1 L and R - 1.82:1	
Max. upshift speeds—drive range	49	
Max. kickdown speeds—drive range	45	
Torque converter	Number of elements	3
	Max. ratio at stall	2.60:1
	Type of cooling (air, water)	None
Lubricant	Capacity—refill (pt.)	6
	Type recommended	Type A, Suffix A
Special transmission features		

## DRIVE UNITS—PROPELLER SHAFT NONE

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

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



# AMA Specifications – Passenger Car

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

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

## DRIVE UNITS—PROPELLER SHAFT (cont.)

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

## DRIVE UNITS—REAR AXLE

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

## REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

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

# AMA Specifications – Passenger Car

MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED (e) 12-2-63

MODEL 5-6-7-900

ALL MODELS EXCEPT AS INDICATED

## DRIVE UNITS—WHEELS

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

## DRIVE UNITS—TIRES

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

## BRAKES—SERVICE

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

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

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

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

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

(Continued)

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

# AMA Specifications—Passenger Car

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

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

## BRAKES—SERVICE (cont.)

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

## BRAKES—PARKING

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

## FRAME or UNITIZED CONSTRUCTION

Type and description	Integral, with step-down underbody floor, front and rear side rail type members, and front and rear end sheet metal components welded to body assembly.
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## SUSPENSION—GENERAL (See Supplemental page 19 for details on Air Suspension)\*

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

## SUSPENSION—FRONT

Type and description	Independent - SLA type with coil spring and concentric shock absorber, and spherically-jointed steering knuckle for each wheel.
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\* Air Suspension:  
Air spring type  
Compressor data  
type  
make  
drive ratio

Normal operating pressures  
spring rates  
leveling data

(Continued)

# AMA Specifications – Passenger Cars

MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED (e) 12-2-6

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

## SUSPENSION FRONT (cont.)

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

## STEERING

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

(Continued)

# AMA Specifications – Passenger Car

**MAKE OF CAR** CORVAIR **MODEL YEAR** 1964 **DATE ISSUED** 9-23-63 **REVISED** (a) 12-2-63

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

## STEERING (cont.)

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

## SUSPENSION—REAR (a)

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

**(a) Rear Wheel Alignment**

Camber (Degrees) - - - - P1 (Curb)  
 Toe-In (Overall) - - - - 1/4 (Curb)

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

# AMA Specifications – Passenger Car

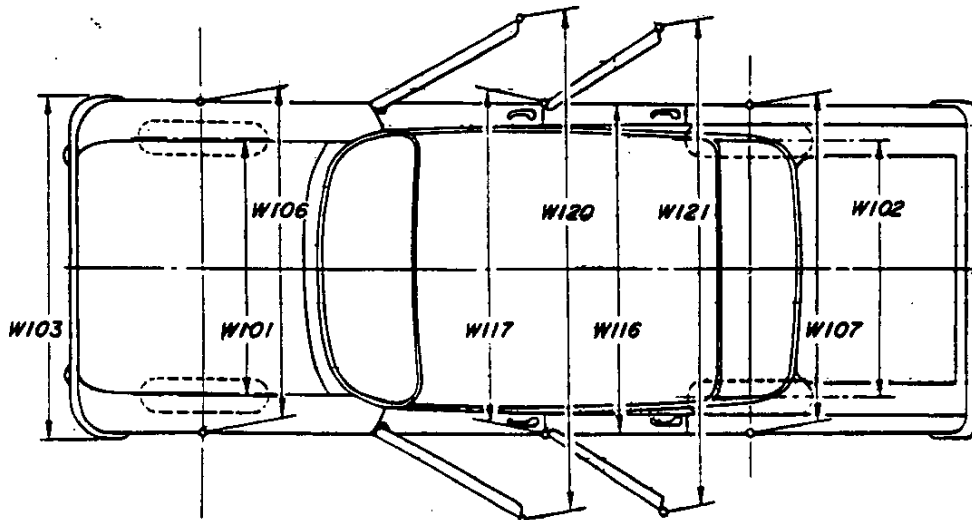
MAKE OF CAR CORVAIR MODEL YEAR 1964 DATE ISSUED 9-23-63 REVISED (e)

## CAR AND BODY DIMENSIONS—GENERAL

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

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

## EXTERIOR WIDTH DIMENSIONS

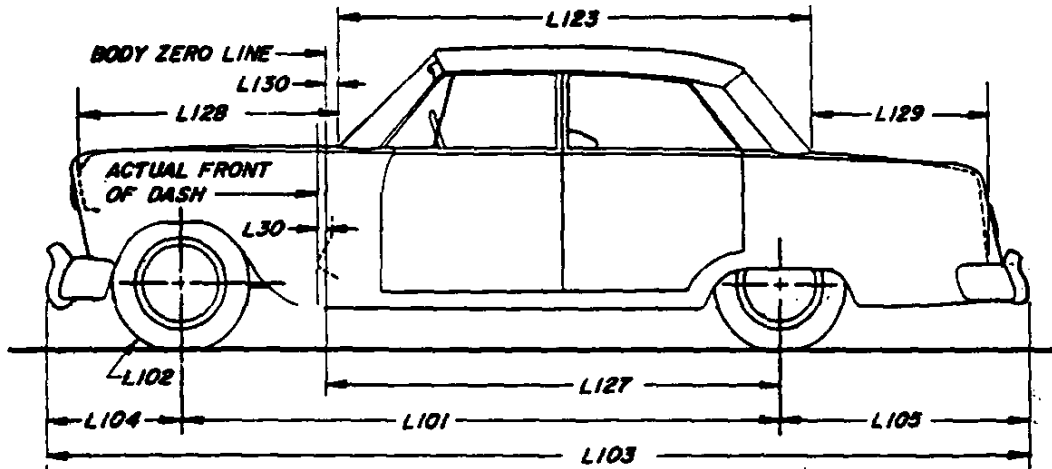


MODEL	Ref. No.	Sedans	Coupes	Convertibles
5-6-7-900				
Tread - front	W101		54.4	
Tread - rear	W102		55.1	
Maximum overall car width	W103		67.0	
Maximum overall body width	W116		67.0	
Maximum body width at #2 pillar	W117	66.0	---	---
Front fender overall width	W106		66.3	
Rear fender overall width	W107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

# AMA Specifications – Passenger Car

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

## EXTERIOR LENGTH DIMENSIONS

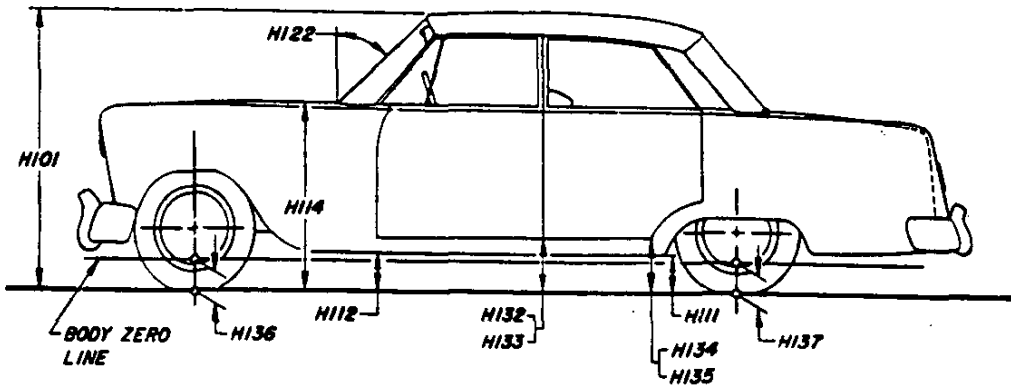


MODEL	Ref. No.	SEDANS	COUPES	CONVERTIBLES
5-6-7-900				
Body zero line to actual front of dash	L30		.6	
Wheelbase	L101		108.0	
Overhang - front	L104		30.3	
Overhang - rear	L105		41.7	
Overall length	L103		180.0	
Hood length at car centerline	L128		42.4	
Body upper structure length at car centerline	L123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

# AMA Specifications- Passenger Car

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

## EXTERIOR HEIGHT DIMENSIONS



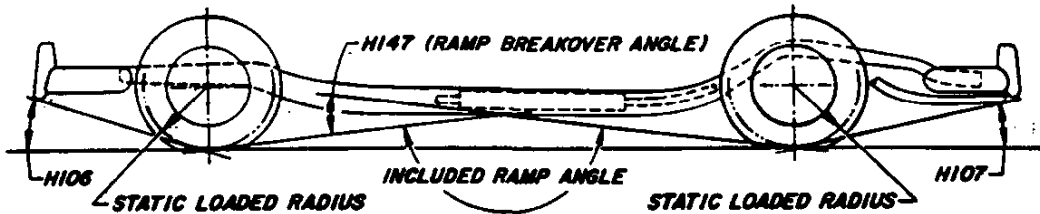
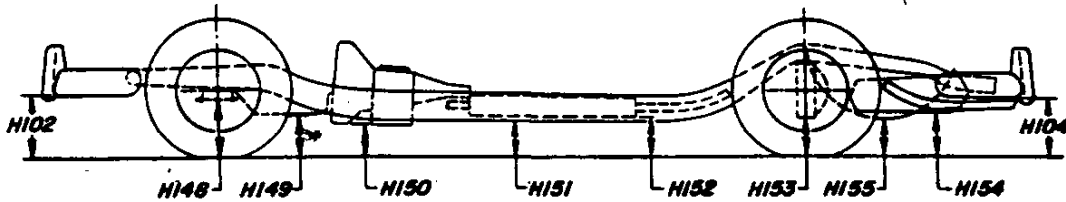
MODEL 5-6-7-900	Ref. No.	SEDANS	COUPES	CONVERTIBLES
Overall height	H101	51.5	51.4	51.1
Hood at rear to ground	H114		34.2	
Rocker panel to ground - front	H112	7.7	7.3	
Rocker panel to ground - rear	H111	7.2	7.0	
Bottom of door to ground, open - front	H132	12.2	12.4	
Bottom of door to ground, closed -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



# AMA Specifications—Passenger Car

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

## GROUND CLEARANCE DIMENSIONS

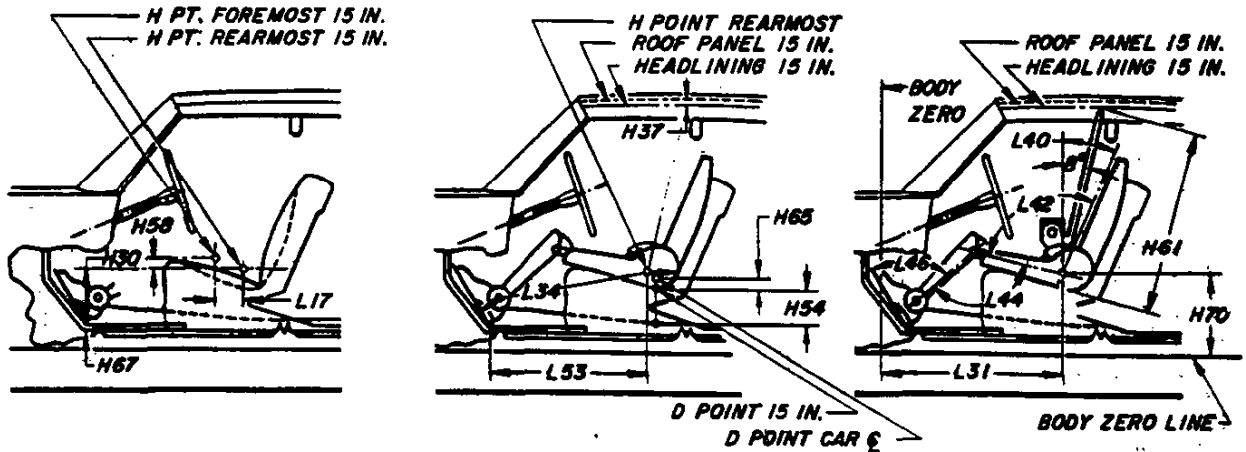


MODEL	Ref. No.	SEDANS	COUPES	CONVERTIBLES
5-6-7-900				
Front bumper to ground	H102	15.1	15.0	14.8
Rear bumper to ground	H104	15.2	15.5	15.3
Angle of approach	H106	25.4°	24.8°	24.4°
Angle of departure	H107	14.5°	15.4°	15.0°
Ramp breakover angle	H147	12.7°	12.9°	12.5°
Front suspension to ground	H148	6.0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

# AMA Specifications—Passenger Car

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

## FRONT COMPARTMENT DIMENSIONS

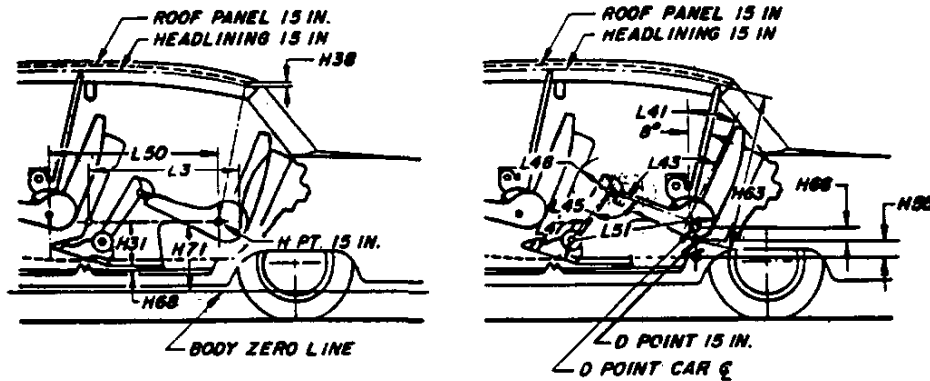


MODEL 5-6-7-900	Ref. No.	Sedans		Coupes		Convertibles Bucket
		Bench	Bucket	Bench	Bucket	
H Point to body zero line	L31	42.9	42.6			42.7
H Point to body zero line - front	H70	NA				
Effective head room	H61	37.6	37.7	37.7	37.6	37.9
Headlining to roof height	H37	.5	.6	.5	.6	---
Maximum effective leg room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

# AMA Specifications – Passenger Car

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

## REAR COMPARTMENT DIMENSIONS

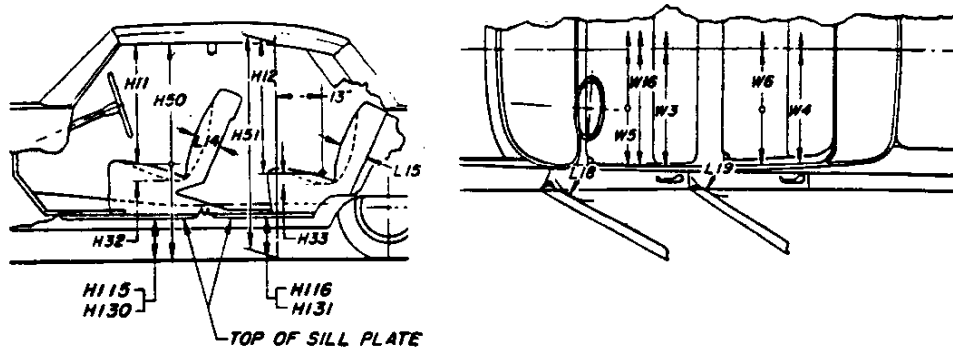


MODEL	Ref. No.	Sedans		Coupes		Convertibles Bucket
		Bench	Bucket	Bench	Bucket	
5-6-7-900						
H Point couple distance	L50	30.9	31.4	28.5	27.7	28.8
H Point to body zero line - rear	H71	NA				
Effective head room	H63	36.6	36.8	36.6	37.2	37.8
Headlining to roof height	H38	.6	.6	---	.1	---
Minimum effective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

# AMA Specifications – Passenger Car

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

## SEAT AND ENTRANCE DIMENSIONS

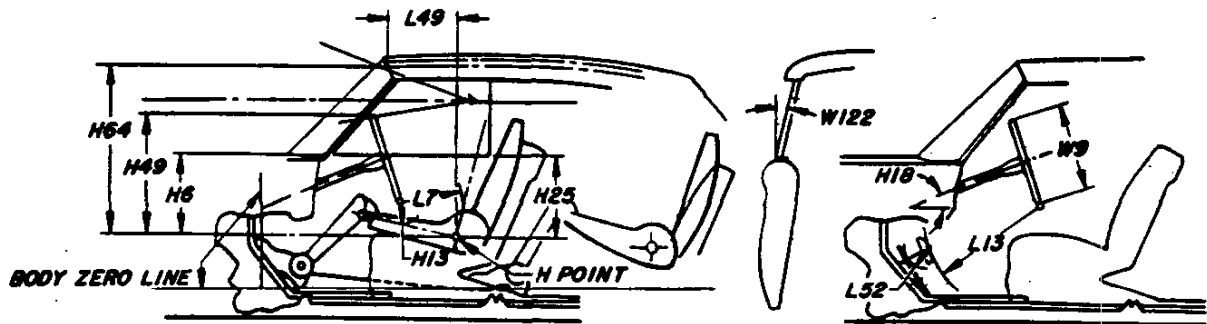


MODELS	Ref. No.	Sedans		Coupes		Convertibles Bucket
		Bench	Bucket	Bench	Bucket	
5-6-7-900						
Shoulder room - front	W3	53.9				
Hip room - front	W5	58.2				
Seat width - front	W16	50.7	53.1	50.7	53.2	
Upper body opening to ground - front	H50	46.0	45.9	45.9		
Entrance height - front	H11	29.0	28.7	28.8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

# AMA Specifications – Passenger Car

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

## VISION AND CONTROL DIMENSIONS



MODEL 5-6-7-900	Ref. No.	Sedans		Coupes		Convertibles Bucket
		Bench	Bucket	Bench	Bucket	
H Point to windshield bottom DLO	H6	18.3	18.1	18.3	18.1	
H Point to windshield upper DLO	H64	30.6	30.4	30.6	30.4	30.3
H Point to windshield upper DLO	L49	12.3	12.1	12.0		
Belt height - front	H25	16.8	16.6	16.7	16.6	
Steering wheel center to centerline of car	W7	14.0				
Steering wheel maximum outside diameter	W9	16.0				
Steering column angle - horizontal	H18	20°				
H Point to top of steering wheel	H49	22.7	22.4	22.6	22.4	
Steering wheel torso clearance	L7	12.2	12.0	12.0	11.9	
Steering wheel thigh clearance	H13	3.2	2.9	3.1	3.0	
Brake pedal knee clearance	L13	24.0				
Brake pedal to accelerator	L52	2.9				
Tumble-home	W122	14°				

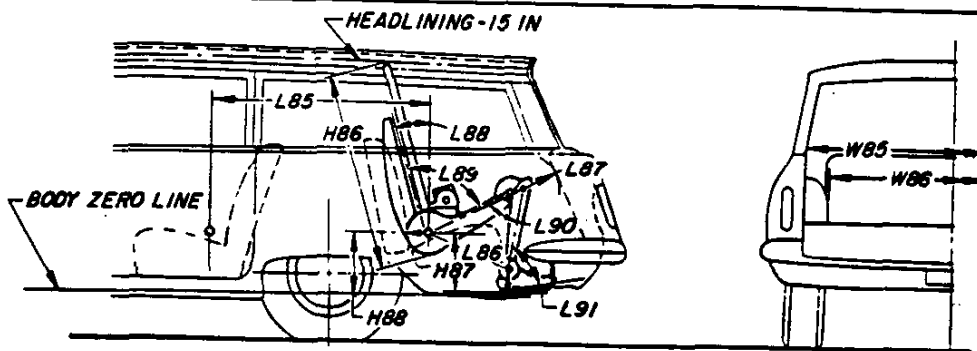
# AMA Specifications – Passenger Car

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

## LUGGAGE COMPARTMENT

MODEL 5-6-7-900	Ref. No.	SEDANS	COUPES	CONVERTIBLES
Usable luggage capacity (See instructions)			6,6	
Liftover height	H195		28,6	
Position of spare tire storage		Horizontal, Engine Compartment (a)		
Method of holding lid open		Torsion Rod Counter-balanced		

## THIRD SEAT DIMENSIONS



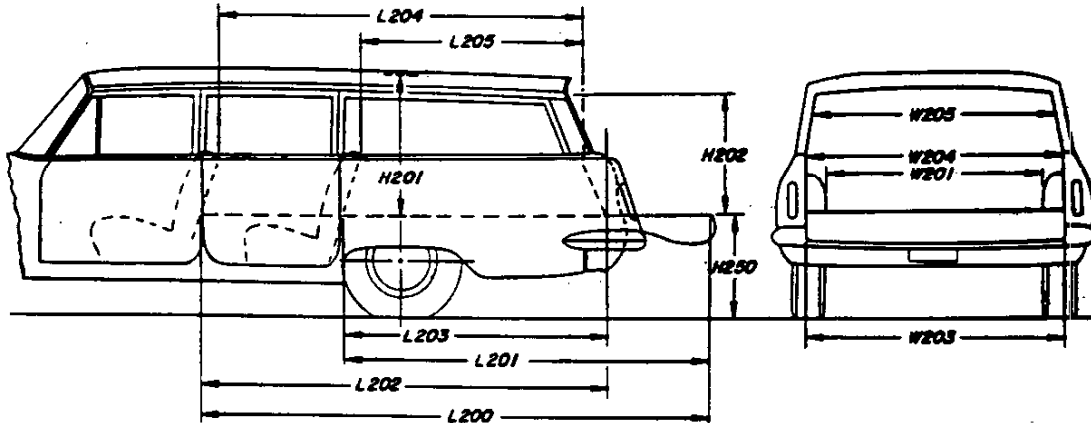
MODEL	Ref. No.	
Seat facing direction		
Shoulder room	W85	
Hip room	W86	
H Point couple distance	L85	
H Point to body zero line - third seat	H88	
Effective head room	H86	NONE
Effective leg room	L86	
H Point to heel point	H87	
Knee room	L87	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

(a) In front compartment when air conditioning is used

# AMA Specifications—Passenger Car

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

## STATION WAGON—CARGO SPACE DIMENSIONS



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

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# AMA Specifications - Passenger Car

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

## BODY - MISCELLANEOUS INFORMATION

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

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

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

(a) Foam pad on 969.





## DIMENSION DEFINITIONS

- W3 SHOULDER ROOM - FRONT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.
- W4 SHOULDER ROOM - REAR. Measured in the same manner as W3.
- W5 HIP ROOM - FRONT. The lateral dimension through H Point to trimmed surfaces.
- W6 HIP ROOM - REAR. Measured in the same manner as W5.
- W7 STEERING WHEEL CENTER TO CENTERLINE OF CAR. Measured horizontally from steering wheel center to centerline of car. The point at steering wheel center is located in the surface plane of wheel.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- W16 SEAT WIDTH - FRONT. The maximum trimmed width of front seat cushion.
- W85 SHOULDER ROOM - THIRD SEAT. Measured in the same manner as W3.
- W86 HIP ROOM - THIRD SEAT. Measured in the same manner as W5.
- W101 TREAD - FRONT. Measured at centerline of tires, with nominal camber, at ground.
- W102 TREAD - REAR. Measured at centerline of tires at ground.
- W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions.
- W106 FRONT FENDER OVERALL WIDTH. Measured at centerline of front wheels, excluding moldings.
- W107 REAR FENDER OVERALL WIDTH. Measured at centerline of rear wheels, excluding moldings.
- W116 MAXIMUM OVERALL BODY WIDTH. Measured across body, excluding hardware and applied moldings, but including fenders when integral with body.
- W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.
- W120 MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN. Measured with front doors in maximum hold-open position.
- W121 MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN. Measured in same manner as W120.
- W122 TUMBLE-HOME. The angle from vertical to the front door glass outer surface or the chord of a curved door glass, measured at the front H Point station.
- L3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at a height tangent to the top of rear seat cushion.
- L7 STEERING WHEEL TORSO CLEARANCE. The minimum distance from the back edge of steering wheel, in straight-ahead position, to the Torso Line.
- L13 BRAKE PEDAL KNEE CLEARANCE. The minimum dimension from the lower edge of the steering wheel to the brake pedal face centerline.
- L14 SEAT BACK THICKNESS - FRONT. The maximum thickness of the seat back, excluding bolsters.
- L15 SEAT BACK THICKNESS - REAR. Measured in the same manner as L14.
- L17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.
- L18 ENTRANCE FOOT CLEARANCE - FRONT. The minimum horizontal dimension between seat and normal line of door or pillar at a height between the sill plate bead and 4.0 inches above the bead. Door should be in the maximum hold-open position.
- L19 ENTRANCE FOOT CLEARANCE - REAR. Measured in the same manner as L18 on four-door models. On two-door styles, the minimum dimension between rear corner of front seat, with front seat back tilted forward, and trimmed lock pillar, built-in quarter armrest panel, or rear seat cushion at a height between the sill plate bead and 4.0 inches above the bead.
- L30 BODY ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.
- L31 H POINT TO BODY ZERO LINE - FRONT. Horizontal dimension.
- L34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. Measured with the right foot on accelerator pedal.
- L40 BACK ANGLE - FRONT. The angle between a vertical line through the H Point and the Torso Line.
- L41 BACK ANGLE - REAR. Measured in the same manner as L40.
- L42 HIP ANGLE - FRONT. The angle between Torso Line and a line extending from knee pivot center to H Point.
- L43 HIP ANGLE - REAR. Measured in the same manner as L42.
- L44 KNEE ANGLE - FRONT. The angle between a line from H Point to knee pivot center and a line from the knee pivot center to the ankle pivot center.
- L45 KNEE ANGLE - REAR. Measured in the same manner as L44.
- L46 FOOT ANGLE - FRONT. The angle between a line extended from the knee pivot center through the ankle pivot center and a line tangent to the sole and heel of manikin bare foot.
- L47 FOOT ANGLE - REAR. Measured in the same manner as L46.
- L48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the knee pivot center to the back of front seat back.
- L49 H POINT TO WINDSHIELD UPPER DLO. The horizontal dimension from H Point to the point of tangency of horizontal line of vision (described in dimension H64) with body upper structure.

**DIMENSION DEFINITIONS (cont.)**

- L50 H POINT COUPLE DISTANCE.** The horizontal dimension from the front seat H Point to the rear seat H Point.
- L51 MINIMUM EFFECTIVE LEG ROOM - REAR.** Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. Measured with the foot positioned to nearest interference between seat structure and toe, instep or lower leg.
- L52 BRAKE PEDAL TO ACCELERATOR.** The minimum dimension from center of brake pedal face to accelerator. Measured in the side view.
- L53 H POINT TO ACCELERATOR FLOOR POINT.** The horizontal dimension from intersection of accelerator and depressed floor covering to the H Point.
- L85 H POINT COUPLE DISTANCE - THIRD SEAT.** The horizontal dimension from the second seat H Point to the third seat H Point.
- L86 EFFECTIVE LEG ROOM - THIRD SEAT.** Measured in the same manner as L51. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
- L87 KNEE ROOM - THIRD SEAT.** Measured in the same manner as L48. With rear-facing third seat, dimension is measured to rear closure.
- L88 BACK ANGLE - THIRD SEAT.** Measured in the same manner as L40.
- L89 HIP ANGLE - THIRD SEAT.** Measured in the same manner as L42.
- L90 KNEE ANGLE - THIRD SEAT.** Measured in the same manner as L44.
- L91 FOOT ANGLE - THIRD SEAT.** Measured in the same manner as L46.
- L101 WHEELBASE.**
- L102 TIRE SIZE.**
- L103 OVERALL LENGTH.** Include bumper guards if standard equipment.
- L104 OVERHANG - FRONT.** Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG - REAR.** Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE.** The horizontal dimension from the theoretical intersection of extended windshield glass plane and normal cowl surface to the theoretical intersection of extended back window glass plane and normal deck surface; or in the case of a Fastback roof or Station Wagon, to back glass lower reveal molding, or rubber when molding is not used.
- L127 BODY ZERO LINE TO CENTERLINE OF REAR WHEELS.** A horizontal dimension.
- L128 HOOD LENGTH AT CAR CENTERLINE.** The horizontal dimension from the foremost point on sheet metal hood surface, excluding series identification or ornamentation, to the theoretical intersection of extended windshield glass plane and normal cowl surface.
- L129 DECK LENGTH AT CAR CENTERLINE.** The horizontal dimension from the rearmost point of the body sheet metal (visible above bumper), excluding series identification or ornamentation, to the theoretical intersection of extended back window glass plane and normal deck surface.
- L130 BODY ZERO LINE TO WINDSHIELD COWL POINT.** The horizontal dimension from body zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.
- H6 H POINT TO WINDSHIELD BOTTOM DLO.** Vertical dimension.
- H11 ENTRANCE HEIGHT - FRONT.** The vertical dimension from H Point to upper trimmed body opening.
- H12 ENTRANCE HEIGHT - REAR.** The vertical dimension from H Point to the upper trimmed body opening at a section 13.0 inches forward of the H Point.
- H13 STEERING WHEEL THIGH CLEARANCE.** The minimum dimension from the bottom of steering wheel, in straight-ahead position, to centerline of thigh.
- H18 STEERING COLUMN ANGLE - HORIZONTAL.** The angle the centerline of steering column makes with the horizontal.
- H25 BELT HEIGHT - FRONT.** The vertical dimension from H Point to bottom of side window DLO.
- H30 H POINT TO HEEL POINT - FRONT.** The vertical dimension from the H Point to the manikin accelerator heel point on the depressed floor covering.
- H31 H POINT TO HEEL POINT - REAR.** The vertical dimension from the H Point to the manikin heel point on the depressed floor covering.
- H32 SEAT CUSHION DEFLECTION - FRONT.** The vertical dimension from a point on the undepressed seat cushion to the depressed seat cushion. Measured at the H Point station.
- H33 SEAT CUSHION DEFLECTION - REAR.** Measured in the same manner as H32.
- H37 HEADLINING TO ROOF HEIGHT - FRONT.** The dimension from the intersection of the headlining and the extended effective head room line to the roof panel. Measured perpendicularly to the roof panel.
- H38 HEADLINING TO ROOF HEIGHT - REAR.** Measured in the same manner as H37.
- H49 H POINT TO TOP OF STEERING WHEEL.** The vertical dimension from the H Point to top of steering wheel, in straight-ahead position.
- H50 UPPER BODY OPENING TO GROUND - FRONT.** The vertical dimension from a point on the trimmed body opening to the ground. Measured at the H Point station.
- H51 UPPER BODY OPENING TO GROUND - REAR.** The vertical dimension from a point on the trimmed body opening to the ground. Measured 13.0 Inches forward of the H Point.

## DIMENSION DEFINITIONS (cont.)

- H54 D POINT TO TUNNEL - FRONT.** The vertical dimension from the D Point, at car centerline, to top of tunnel.
- H55 D POINT TO TUNNEL - REAR.** Measured same manner as H54.
- H58 H POINT RISE.** The vertical dimension between the H Point in the most forward and rearward seat position.
- H61 EFFECTIVE HEAD ROOM - FRONT.** The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line  $5^{\circ}$  to rear of vertical.
- H63 EFFECTIVE HEAD ROOM - REAR.** Measured same as H61.
- H64 H POINT TO WINDSHIELD UPPER DLO.** Vertical dimension from H Point to highest horizontal line of vision through windshield at 15 inch section.
- H65 D POINT DIFFERENTIAL, SIDE TO CENTER - FRONT.** Vertical dimension from side occupant to center occupant D Point.
- H66 D POINT DIFFERENTIAL, SIDE TO CENTER - REAR.** Measured in the same manner as H65.
- H67 DEPRESSED FLOOR COVERING THICKNESS - FRONT.** The vertical dimension from manikin accelerator heel point normally to underbody sheet metal immediately below heel point.
- H68 DEPRESSED FLOOR COVERING THICKNESS - REAR.** Measured same as H67.
- H70 H POINT TO BODY ZERO LINE - FRONT.** Vertical dimension.
- H71 H POINT TO BODY ZERO LINE - REAR.** Vertical dimension.
- H86 EFFECTIVE HEAD ROOM - THIRD SEAT.** Measured in the same manner as H61.
- H87 H POINT TO HEEL POINT - THIRD SEAT.** Measured in the same manner as H31.
- H88 H POINT TO BODY ZERO LINE - THIRD SEAT.** Vertical dimension.
- H101 OVERALL HEIGHT.** Measured with full design load.
- H102 FRONT BUMPER TO GROUND.** Minimum dimension.
- H104 REAR BUMPER TO GROUND.** Minimum dimension.
- H106 ANGLE OF APPROACH.** The angle between the ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e. bumper, guard, gravel deflector, fender or other interfering component, excluding license plate.
- H107 ANGLE OF DEPARTURE.** The angle between the ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e. bumper, guard, gravel deflector, tail pipe, fender or other interfering component, excluding license plate.
- H111 ROCKER PANEL TO GROUND - REAR.** The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured at front of rear wheel opening.
- H112 ROCKER PANEL TO GROUND - FRONT.** The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured at foremost point of rocker panel.
- H114 HOOD AT REAR TO GROUND.** Measured from hood opening line on shroud, exclusive of moldings.
- H115 STEP HEIGHT - FRONT (DESIGN LOAD).** The vertical dimension from top of sill plate bead, at C/L of front door sill plate, to ground.
- H116 STEP HEIGHT - REAR (DESIGN LOAD).** Measured in same manner as dimension H115.
- H122 WINDSHIELD SLOPE ANGLE.** The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.
- H130 STEP HEIGHT - FRONT (CURB LOAD).** The vertical dimension from top of sill plate, at C/L of front door sill plate, to ground.
- H131 STEP HEIGHT - REAR (CURB LOAD).** Measured same as H130.
- H132 BOTTOM OF DOOR TO GROUND, OPEN - FRONT.** Measured from bottom outside corner of door with door in maximum hold-open position.
- H133 BOTTOM OF DOOR TO GROUND, CLOSED - FRONT.** Same point on door as H132 dimension, with door closed.
- H134 BOTTOM OF DOOR TO GROUND, OPEN - REAR.** Measured in same manner as H132.
- H135 BOTTOM OF DOOR TO GROUND, CLOSED - REAR.** Measured in same manner as H133.
- H136 BODY ZERO TO GROUND - FRONT.** A vertical dimension measured at front wheel centerline.
- H137 BODY ZERO TO GROUND - REAR.** A vertical dimension measured at rear wheel centerline.
- H147 RAMP BREAKOVER ANGLE.** Supplement of included ramp angle ( $180^{\circ}$  minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.
- H148 FRONT SUSPENSION TO GROUND.** Minimum clearance at lower control arm inner shaft or lowest point on the car centerline.
- H149 OIL PAN TO GROUND.** Minimum clearance measured from sheet metal or drain plug.
- H150 FLYWHEEL/CONVERTER HOUSING AND TRANSMISSION ASSEMBLY TO GROUND.** Minimum clearance.
- H151 FRAME STRUCTURE TO GROUND.** Minimum clearance measured approximately midway between front and rear axles. In this measurement, cross bars and X-members shall be considered part of frame.
- H152 EXHAUST SYSTEM TO GROUND.** Minimum clearance. See location.
- H153 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND.** Minimum clearance.
- H154 FUEL TANK TO GROUND.** Minimum clearance measured from sheet metal or drain plug, but excluding supports or straps.
- H155 SPARE TIRE WELL TO GROUND.** Minimum clearance.
- H156 MINIMUM RUNNING GROUND CLEARANCE.** Location of measurement on the car is to be clearly recorded.
- H195 LIFTOVER HEIGHT.** Vertical dimension from luggage compartment lower opening to ground.

# AMA Specifications – Passenger Car

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