

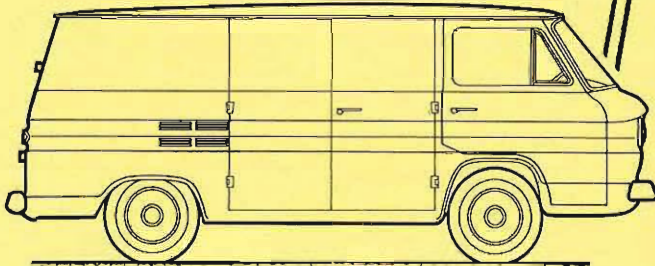
# GENERAL



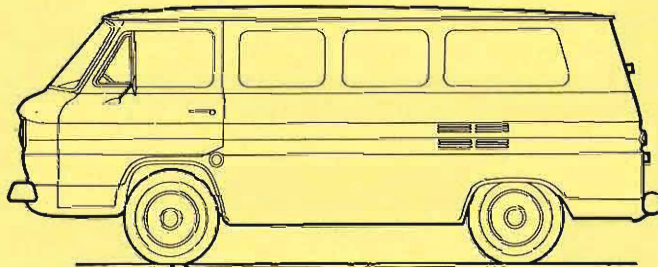
MODEL IDENTIFICATION .....	3
SERIAL NUMBERS AND IDENTIFICATION .....	4
DEALER INSTALLED ACCESSORIES .....	7
REGULAR PRODUCTION OPTIONS .....	8



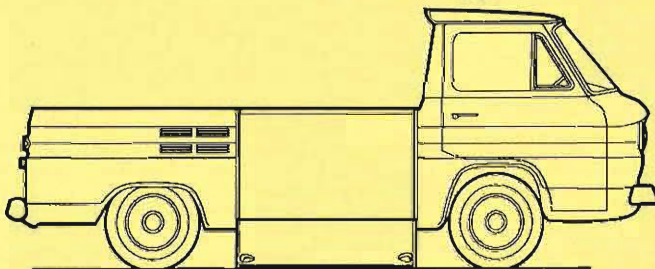
**MODEL IDENTIFICATION**



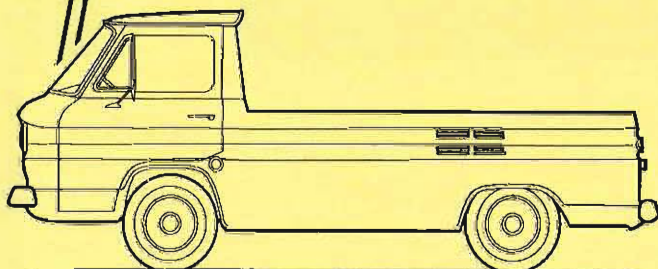
R1205 PANEL



R1206 SPORTS WAGON



R1254 RAMPSIDE PICKUP



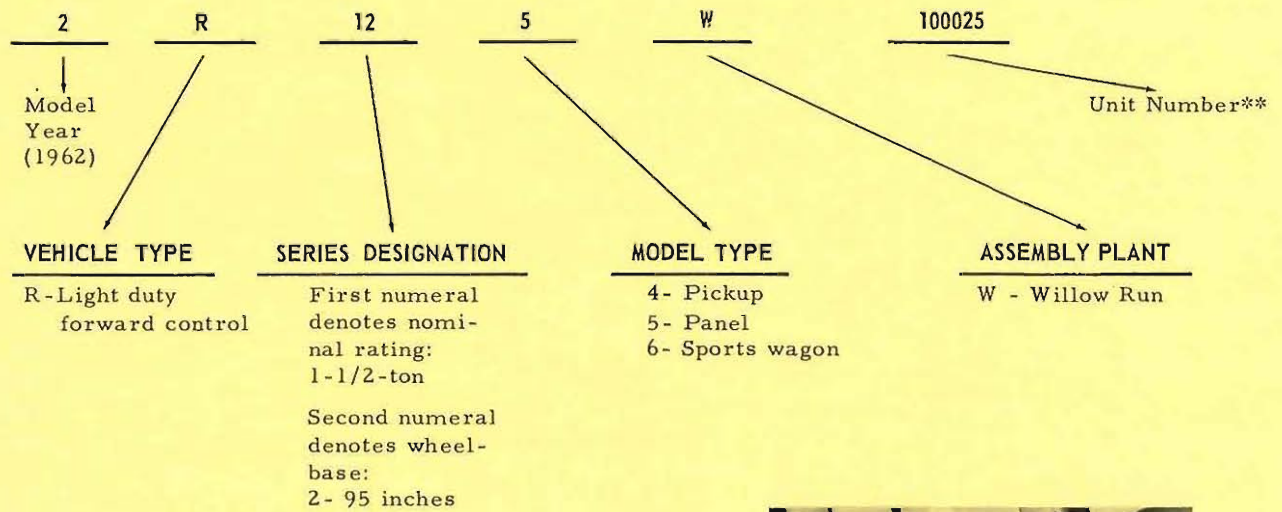
R1244 PICKUP



# SERIAL NUMBERS AND IDENTIFICATION

## Vehicle Serial Number Identification

EXAMPLE:



\*\* - Starting unit number is 10001 at each assembly plant regardless of series.



LOCATION ----- STAMPED TAG LOCATED ON LH LOCK PILLAR



## Engine Identification

EXAMPLE:

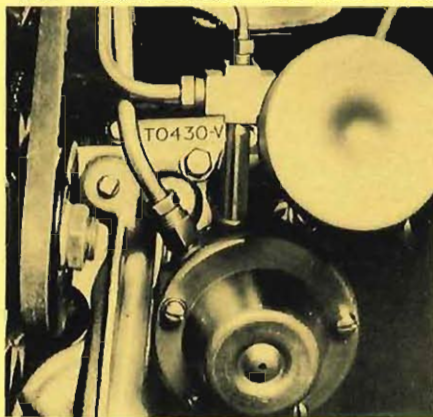
T  
/\  
SOURCE DESIGNATION  
T (TONAWANDA)

04  
/\  
MONTH

30  
/\  
DAY

V  
/\  
TYPE DESIGNATION

- V - Base engine
- VA - Used on R10 with RPO 225
- W - Used on R10 with RPO 667
- WA - Used on R10 with RPO 225 and Automatic Transmission



LOCATION - - - STAMPED ON TOP  
REAR SURFACE, LEFT HALF OF  
CRANKCASE

## Rear Axle Identification

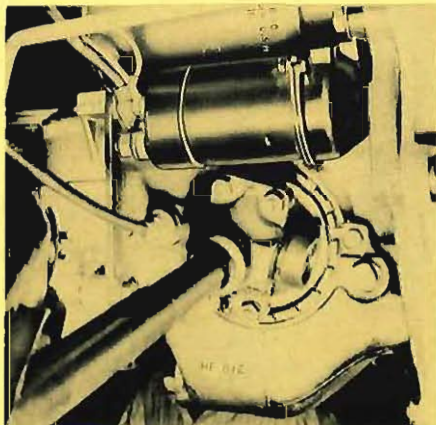
EXAMPLE:

HE  
/\  
TYPE DESIGNATION

6  
/\  
MONTH

12  
/\  
DAY

HE - Base axle



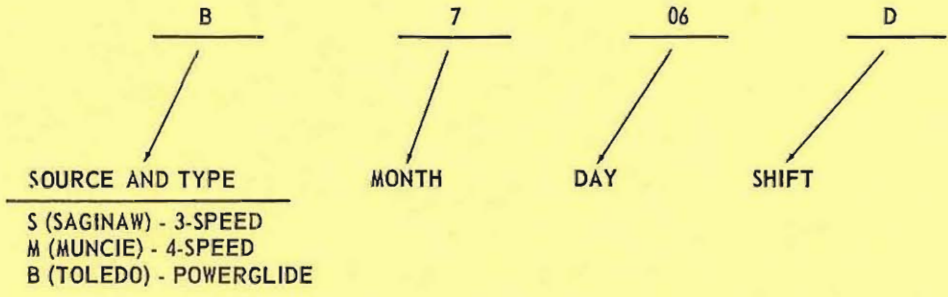
LOCATION - - - NUMBER STAMPED ON  
LOWER LEFT SIDE OF  
CASTING



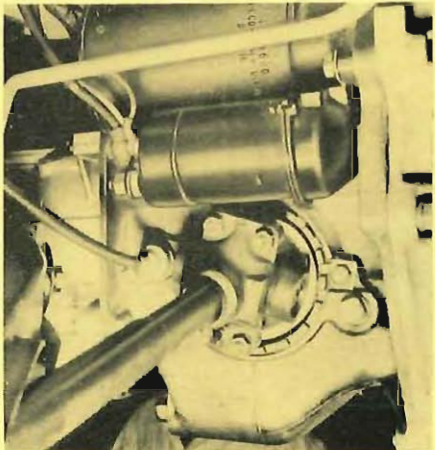
# SERIAL NUMBERS AND IDENTIFICATION-Cont'd.

## Transmission Identification

EXAMPLE:

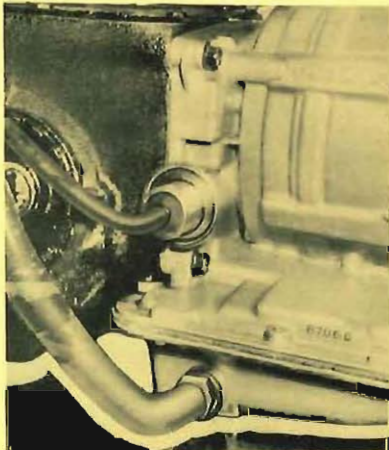


3-SPEED & 4-SPEED



LOCATION - - - STAMPED ON UPPER LEFT DIFFERENTIAL MOUNTING BOSS

POWERGLIDE



LOCATION - - - STAMPED ON RIGHT HAND SIDE OF CASTING AND MIDDLE PAN MOUNTING BOSS.

## DEALER INSTALLED ACCESSORIES

Belt - Seat  
Cap - Gas Tank Filler Locking  
Carrier - Roof Luggage  
Clock - Instrument Panel  
Container - Litter  
Cover - Roof Luggage Carrier  
Cover - Wheel Trim  
Deflector - Rain  
Floor - Level Platform  
Guard - Bumper  
Harness - Wiring  
Heater and Defroster (Gas)  
Heater and Defroster (Direct Air)  
Lamp - Courtesy  
Lamp - Dome  
Lamp - Portable Spot  
Lamp - Spot  
Lamp - Traffic Hazard Switch and Flasher  
Lighter - Cigarette  
Mirror - Outside Rear View  
Mirror - Inside Prismatic Rear View  
Radio and Antenna  
Rail - Utility Side  
Reflector - Reflex  
Rest - Door Arm  
Sunshade - Right Hand  
Switch - Glove Compartment Light  
Safety and Emergency Unit  
Safety Flare - Reflector  
Tissue Dispenser and Litter Container  
Tool Kit  
Tent and Camping Equipment  
Washer - Windshield



## REGULAR PRODUCTION OPTIONS

123	Radio equipment - manually operated
128	Gasoline heater equipment
132	Wheel trim cover equipment
134	Level load floor equipment
136	Air-conditioning equipment
138	Direct air heater equipment
148	Seat belt equipment
210	Rear view mirror equipment
213	Shock absorber equipment
243	Special crankcase ventilation
255	Heavy front spring equipment
264	Auxiliary seat equipment
269	Supplementary seat equipment
355	Two-speed windshield wiper & washer equipment
370	Laminated glass equipment
393	Chrome bumper equipment (includes hub caps)
420	Taxi cab equipment
431	Custom equipment
481	Differential carrier positraction
482	Full width seat equipment
645	Body side door equipment
652	Four-speed transmission equipment
667	Automatic transmission equipment

# DIMENSIONS AND WEIGHTS



VEHICLE WEIGHTS AND LOAD DISTRIBUTION .....	3
CUBIC CAPACITY .....	3
EXTERIOR DIMENSIONS .....	4
INTERIOR DIMENSIONS .....	6





# VEHICLE WEIGHTS

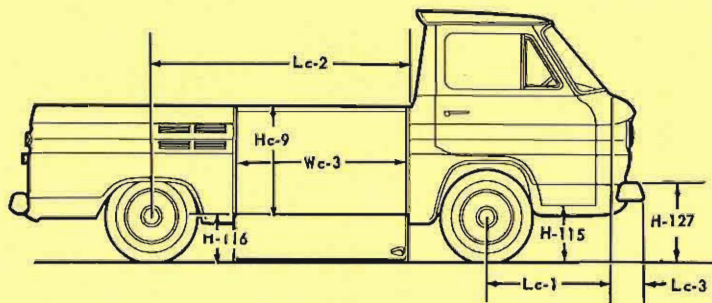
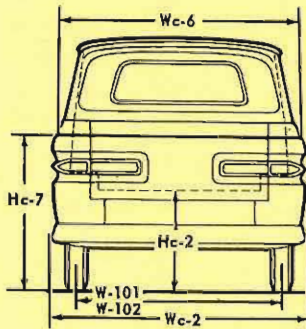
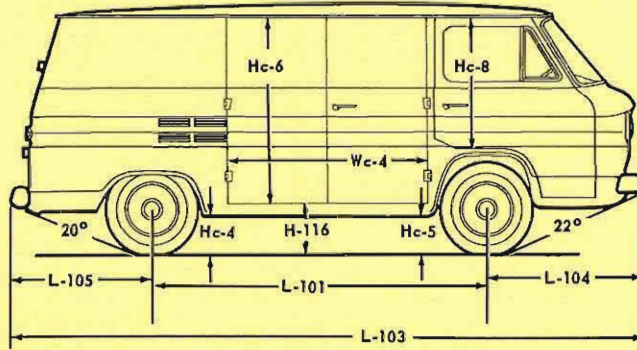
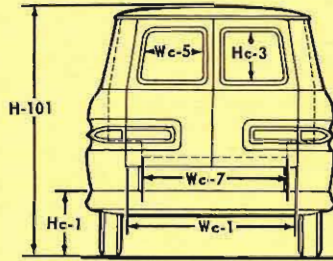
MODELS	WITH STANDARD EQUIPMENT						CUBIC CAPACITY (CU.FT.)	BODY & OR PAYLOAD	WITH MINIMUM EQUIPMENT FOR MAXIMUM GVW		LOAD LENGTH (IN.)
	SHIPPING*			CURB*					PAYLOAD DISTRIBUTION		
	FRONT	REAR	TOTAL	FRONT	REAR	TOTAL		FRONT	REAR		
R1205	1201	1619	2820	1315	1615	2930	191.0	1,700	50%	50%	155.6
R1206	1275	1755	3030	1391	1754	3145	175.5 §	1,450	49%	51%	¶
R1244	1242	1338	2580	1354	1341	2695	82.5	1,900	39%	61%	109.2
R1254	1281	1379	2660	1392	1378	2770	82.5	1,850	39%	61%	109.2

\* - Estimated weight.

§ - Based on three passengers.

¶ - Payload distribution based on a payload of nine passengers.

# EXTERIOR DIMENSIONS





### HEIGHTS

Code	Description	Base GVW	Curb	70.15	70.77	70.76
H-101	Overall height		Loaded		68.82	
		Max. GVW	Loaded		68.54	
H-115	Step height - front	Base GVW	Curb	19.24	20.35	19.85
			Loaded		17.09	
		Max. GVW	Loaded		17.25	
H-116	Step height - side	Base GVW	Curb		16.25	
			Loaded	14.56		15.01
		Max. GVW	Loaded	14.25		14.17
H-127	Top of front bumper to ground				21.49	
Hc-1	Top of rear bumper to ground				19.15	
Hc-2	Step height - rear	Base GVW	Curb	28.67	28.62	29.28
			Loaded		28.51	
		Max. GVW	Loaded		27.57	
Hc-3	Rear window height			13.20		
Hc-4	Bottom of frame to ground - forward of rear wheelhouse				9.89	
Hc-5	Bottom of frame to ground - rearward of front wheelhouse				9.57	
Hc-6	Side door opening height			51.08		
Hc-7	Top of pickup box to ground					42.30
Hc-8	Front entrance room				31.49	
Hc-9	Center floor to top of pickup box					29.13
Hc-10	Front ground clearance (at lower control arm)				7.04	
Hc-11	Rear ground clearance (at lower control arm)				8.14	
Hc-12	Minimum ground clearance (at rear of front wheel opening)				6.62	

### LENGTHS

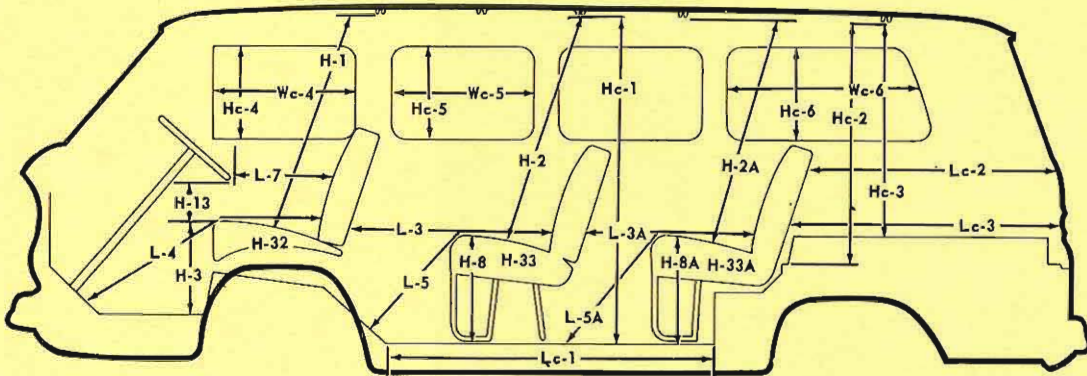
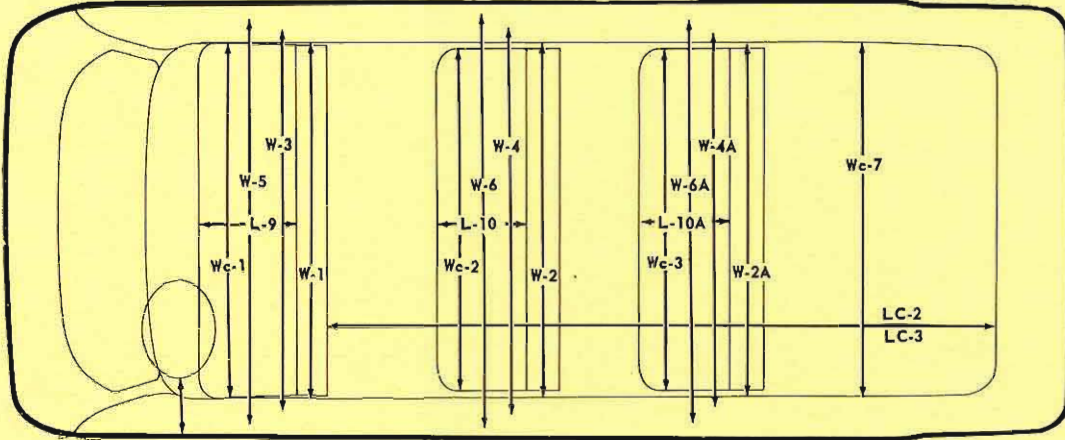
L-101	Wheelbase		95.00
L-103	Overall length		179.70
L-104	Front overhang		44.40
L-105	Rear overhang		40.30
Lc-1	Front of dash to $\mathcal{C}$ of front wheels		38.39
Lc-2	Back of cab to $\mathcal{C}$ of rear wheels		75.92
Lc-3	Front of bumper to front of dash		6.31

### WIDTHS

W-101	Front tread		58.00
W-102	Rear tread		58.00
Wc-1	Rear door width	45.96	43.92
Wc-2	Maximum bumper width		70.00
Wc-3	Ramp door opening width		45.66
Wc-4	Side door opening width	53.00	
Wc-5	Rear window width	15.34	
Wc-6	Inside box width at rails		61.20
Wc-7	Width between wheel housings		44.30



# INTERIOR DIMENSIONS





PICKUP

PANEL

GREENBRIER

## HEIGHTS

H-1	Headroom - front	39.7	
H-2	Headroom - intermediate		42.7
H-2A	Headroom - rear		42.6
H-3	Seat chair height - front	16.1	
H-8	Seat chair height - intermediate		17.5
H-8A	Seat chair height - rear		17.5
H-13	Steering wheel clearance	6.4	
H-32	"A" point depressed depth - front	3.6	
H-33	"A" point depressed depth - intermediate		3.6
H-33A	"A" point depressed depth - rear		3.6
Hc-1	Center floor to roof rail		53.8
Hc-2	Rear compartment floor to roof rail		39.7
Hc-3	Top of wheelhouse to roof rail		35.3
Hc-4	Front door window height	15.16	
Hc-5	Intermediate side window height		15.16
Hc-6	Rear side window height		15.16

## LENGTHS

L-3	Intermediate compartment room		34.4
L-3A	Rear compartment room		28.5
L-4	Leg room - front	44.5	
L-5	Leg room - intermediate		37.4
L-5A	Leg room - rear		37.8
L-7	Steering wheel to seat back clearance	15.8	
L-9	Seat depth - front	17.0	
L-10	Seat depth - intermediate		17.3
L-10A	Seat depth - rear		17.3
Lc-1	Center floor length	52.9	
Lc-2	Load length at belt	106.2	34.6
Lc-3	Load length at floor	120.9	44.9

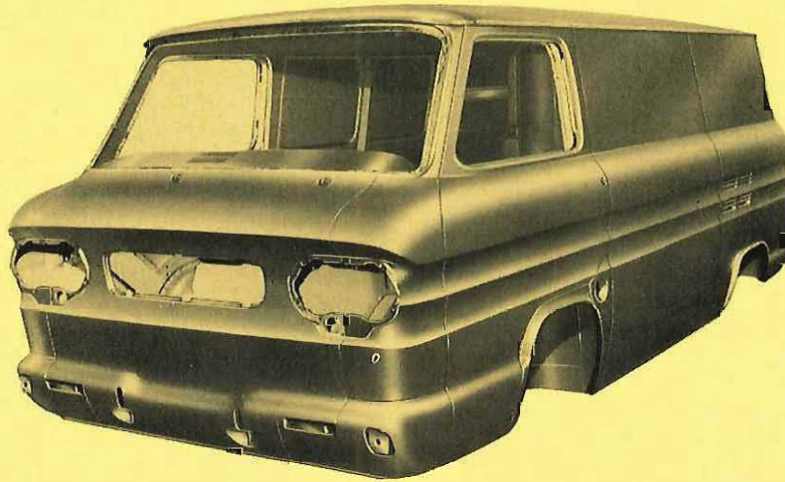
## WIDTHS

W-1	Hat room - front seat	53.4	53.4
W-2	Hat room - intermediate seat		55.0
W-2A	Hat room - rear seat		54.5
W-3	Shoulder room - front seat	59.5	59.5
W-4	Shoulder room - intermediate seat		59.3
W-4A	Shoulder room - rear seat		59.5
W-5	Hip room - front seat	61.4	61.4
W-6	Hip room - intermediate seat		61.8
W-6A	Hip room - rear seat		61.6
Wc-1	Seat cushion width - front	58.6	58.6
Wc-2	Seat cushion width - intermediate		55.6
Wc-3	Seat cushion width - rear		55.6
Wc-4	Front door window width	23.3	
Wc-5	Intermediate side window width		23.4
Wc-6	Rear side window width		32.2
Wc-7	Rear compartment maximum width	61.2	
Wc-8	Steering wheel to door inner panel clearance	4.6	





# BODY



EXTERIOR COLORS .....	3
INTERIOR COLORS AND MATERIALS .....	4
INSTRUMENT PANEL .....	6
EQUIPMENT .....	7
ELECTRICAL .....	9



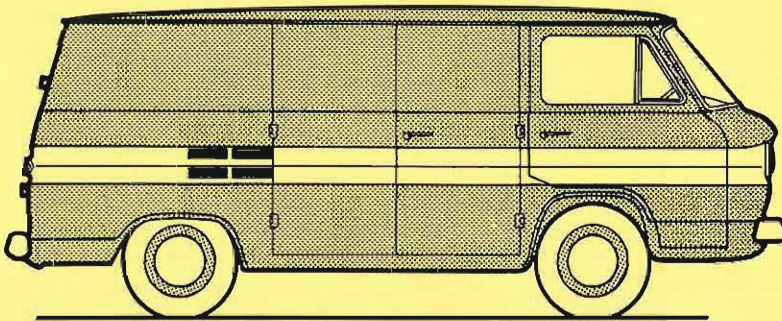
# EXTERIOR COLOR COMBINATIONS

## Body Colors

SOLID COLOR OR MAIN 2-TONE COLOR	SECONDARY 2-TONE COLOR	OPTION NUMBER	
		SOLID	2-TONE
BEIGE, Desert (New)	WHITE, Cameo	528	558
BLACK, Jet	WHITE, Cameo	500	530
BLUE, Balboa	WHITE, Cameo	508	538
BLUE, Brigade	WHITE, Cameo	507	537
GOLD, Tangier (New)	WHITE, Cameo	524 *	554 *
GRAY, Georgian (New)	WHITE, Cameo	522	552
GREEN, Glenwood (New)	WHITE, Cameo	503	533
GREEN, Woodland	WHITE, Cameo	505	535
JADE, Seamist (New)	WHITE, Cameo	502	532
ORANGE, Omaha	WHITE, Cameo	516	546
RED, Cardinal	WHITE, Cameo	514	544
TURQUOISE, Crystal (New)	WHITE, Cameo	510	540
WHITE, Cameo	RED, Cardinal	526	541
WHITE, Pure	RED, Cardinal	521	545
YELLOW, Yuma (New)	WHITE, Cameo	519	549

\* - Available for Model R1206 only.

## Method of 2-Toning



In the illustration, the dark areas represent the main 2-tone color and the light areas represent the secondary 2-tone color. With RPO 541 or 545, however, the wheels are painted the secondary color.

## Trim Colors

ITEM	COLOR
Bumpers	Cameo White *
Wheels, Solid Color Models	Jet Black **
Wheels, Two-Toned Models	Main Body Color #
Hub Caps	Cameo White *
RPO Outside Rear View Mirror Arms	Main Body Color ‡
RPO Outside Rear View Mirror Cases	Jet Black ‡

\* - Pure White substituted for models painted Pure White.

\*\* - Main body color used for Model R1206.

# - Secondary color substituted when main body color is white.

‡ - Cameo White substituted for accessory units.



# INTERIORS

## All Models Except Model R1206 with RPO 431

AREA		MATERIAL	COLOR
Exposed body metal except floor, dash panel, and instrument panel front face		Painted metal	Medium fawn
Floor and dash panel			Charcoal
Instrument panel front face			White
Instrument cluster bezel			Silver
Dispatch box door			White
RPO 431 front door embossment			Bright
Instrument cluster insert		Embossed aluminum	Bright
RPO 431 dispatch box insert		Painted vinyl-covered jute	Medium fawn
Roof panel inserts			
Sunshades	Standard, L.H.	Composition board	Medium fawn
	RPO 431, R.H.		
RPO 431	Upper	Leather-grain vinyl	Med. fawn or red *
L.H. armrest	Lower	Plastic	White
	Coverings	Pattern cloth	Multi-colored #
Standard seat	Facings	Leather-grain vinyl	Medium fawn
	Rear of backrest		
	Model R1206 seat legs	Painted metal	Charcoal
RPO 431 seat	Coverings	Nylon-faced pattern cloth	Dark fawn
	Facings	Leather-grain vinyl	Medium fawn or red *
	Top backrest bolster		
	Rear of backrest		
Lower backrest bolster			
Steering wheel	Standard	Painted hard rubber	White
	RPO 431		White and med. fawn
Turn signal housing		Painted metal	White
Turn signal lever †		Polished metal	Bright
Steering column		Painted metal	Charcoal
Parking brake and gearshift lever †			
Dome lamp		Plastic	White lens with silver base
Air vent knobs			Charcoal
Instrument cluster knobs		Bright metal	Bright
RPO 431 cigar lighter knob			
Rear view mirror		Painted metal	Silver
Front compartment floor mat §		Embossed rubber	Charcoal

\* - Red used with gray, red, or white exteriors.

# - Red, yellow, green, blue, and black stripes with fawn side and center panels.

† - Knob is black plastic.

§ - Includes rear compartment mat also for Model R1206.



**Model R1206 with RPO 431**

AREA	MATERIAL	COLOR
All exposed body metal except roof panel halo, roof bows, instrument panel front face, and dash panel	Painted metal	Med. fawn, lt. green, red, or turquoise *
Roof panel halo		White
Roof bows		
Instrument panel front face		
Dash panel		
Roof panel trim pads	Painted vinyl-covered jute	White
Left and right hand sunshades	Composition board	
Rear quarter trim pads    Upper	Leather-grain vinyl	Med. fawn, lt. green, red, or turquoise †
Lower		
Door and L.H. sidewall trim pads **		
Left and right hand        Upper	Plastic	White
armrests #                 Lower		
Front and rear compartment dome lamps		
Coverings	Nylon-faced pattern cloth	Dark fawn or turquoise †
Facings		
Seats    Rear of backrest	Leather-grain vinyl	Med. fawn, lt. green, red, or turquoise †
Top backrest bolster		
Rear compartment seat legs	Painted metal	
Lower backrest bolster	Leather-grain vinyl	White
Floor coverings	Textured vinyl-coated rubber	Dark fawn, dark green, red, or turquoise †
Steering wheel	Painted hard rubber	Two-toned with interior color and white
Spare tire cover	Leather-grain vinyl	Charcoal
Dispatch box door insert	Embossed aluminum	Bright
Cigar lighter knob	Bright metal	
Rear compartment ash trays		
Rear view mirror; bezel, knobs, and insert for instrument cluster; air vent knobs; parking brake, gearshift, and turn signal levers; steering column; turn signal housing; and dispatch box door	Same as other Corvair 95 models	

\* - Choice dependent upon exterior color: Light Green with Woodland Green and Glenwood Green; Turquoise with Jet Black and Crystal Turquoise; Red with Georgian Gray, Cardinal Red, Pure White, Cameo White; Medium Fawn with all other exterior colors.

\*\* - Includes white vinyl inserts with bright moldings.

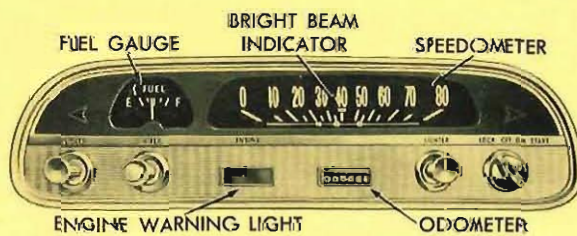
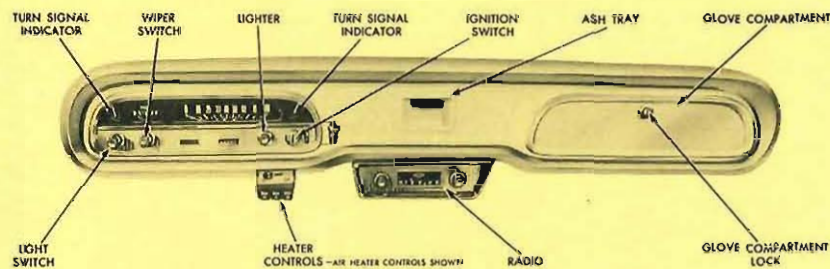
† - Choice depends upon main interior color.

# - Rear compartment armrests included when RPO 269 is stipulated.



# EQUIPMENT

## INSTRUMENTS AND CONTROLS



**NOTE:** Engine warning light consists of oil pressure and engine temperature tell-tale on left and generator and fan tell-tale on right.

# EQUIPMENT

## APPEARANCE

### Custom Equipment

#### RPO431 FOR MODEL R1206

Bright windshield reveal moldings  
 Rear door ornamental inserts  
 Chrome bumpers and hub caps  
 Cigar lighter  
 Anodized aluminum trim plate for dispatch box door  
 Special seat trim  
 Special seat padding: 3/4-inch foam for backrest; 1-1/2 inch foam for cushion  
 Choice of four interior colors  
 Keyed to exterior color  
 Left and right hand armrests for front compartment \*  
 Right hand sunshade  
 Special roof panel paint treatment  
 Special vinyl door and sidewall trim  
 Vinyl-coated rubber floor mats  
 Vinyl spare wheel cover  
 Two-tone steering wheel paint treatment  
 Bright-finished rear compartment left and right hand ash trays  
 Automatically-actuated rear compartment dome lamp

#### RPO 431 FOR MODELS R1205-44-54

Bright windshield reveal moldings  
 Rear door or tailgate ornamental inserts  
 Cigar lighter  
 Left hand armrest  
 Anodized aluminum trim plate for dispatch box door  
 Special seat trim  
 Special seat padding: 3/4-inch foam for backrest; 1-1/2 inch foam for cushion  
 Right hand sunshade  
 Two-tone paint treatment for front door panels and steering wheel

#### RPO 393 FOR ALL MODELS EXCEPT MODEL 1206 WITH RPO 431

Chrome bumper equipment, front and rear. Includes chrome hub caps except with FOA 132, Wheel Disk Equipment

\* - Rear armrests available with RPO 269.

### Glass Type and Visibility Area

Model	Windshield (laminated safety plate)	Venti-Panes (solid safety sheet)	Front Door Windows (sol. safety sheet)	Side Windows (solid safety sheet)	Quarter Windows (sol. safety sheet)	Rear Windows (solid safety sheet)	Total
Pickups						330.65 sq. in.	2400.92 sq. in.
Panels	1170.95 sq. in.	197.36 sq. in.	702.16 sq. in.			409.12 sq. in. (2 windows)	2479.39 sq. in.
Station Wagons				1394.40 sq. in. (4 windows)	916.16 sq. in. (2 windows)	409.12 sq. in. (2 windows)	4789.95 sq. in.



# EQUIPMENT-Cont'd.

## BUMPERS

Type . . . . .	Pressed steel
Thickness . . . . .	0.112 inch
Overall height . . . . .	5.125 inches
Overall width . . . . .	70.00 inches
Finish, Std. . . . .	Painted
, RPO . . . . .	Chrome-plated

## WINDSHIELD WIPERS

Make . . . . .	Delco
Type . . . . .	Single-speed *
Linkage type . . . . .	Parallel acting
Wiper blades . . . . .	15-inch, natural rubber
Blade travel . . . . .	107 degrees, R.H.; 98 degrees, L.H.
Park position . . . . .	One inch above D.L.O.

\* - Two-speed wiper/washer combination available as RPO.

## HORN

Make . . . . .	Delco
Type . . . . .	Vibrator
Number . . . . .	One

## TOOLS

Type . . . . .	Scissors
Capacity . . . . .	1800 Lbs.
Raised Height . . . . .	17.81 In.
Lowered Height . . . . .	3.56 In.
Wheel Nut Wrench . . . . .	Combined Single Unit
Jack Handle . . . . .	

# ELECTRICAL

## PARKING LIGHTS

Location	Below Headlights
Bulb Type	Dual Filament, Parking & Turn Signal

## TAIL AND STOP LAMPS

Make	Guide Lamp
Type	Comb. Tail, Stop, Directional Signal Unit

## REAR LICENSE LIGHTS

Type	Dual
Location	On Engine Access Door at Each Side of License Carrier

## INSTRUMENT PANEL LIGHTING

Fuel Gauge	White Light
Speedometer Dial	
High Beam Indicator	Red (when lighted)
Oil Pressure Indicator	"OIL" (black letters on red background). Visible at Low Pressure or Excessive Temperature
Generator	Tell-Tale (lights at low gen. charge)
Main Switch	Three-Position Pull Type, with Integral Dome Lamp Switch & Rheostat to Control Instrument Panel Lighting

## DOMELIGHT

Pickup Location	Above Rear Window
Panels & Station Wagons	At Center of Roof Panel, Rear of Front Seats*

## DIRECTION SIGNAL

Make	Guide Lamp
Type	Flasher, Front and Rear, Self-Cancelling
Turn Indicators	Green Lighted Arrows at Outer Edge of Instrument Cluster Face

\* - On station wagons with RPO 431, second dome light provided on rearmost roof bow (automatically actuated by opening of side or rear doors).



# ELECTRICAL - Cont'd.

## Headlamps

Make & Type	Guide, Dual T-3 Sealed Beam
Location	At Extreme Sides of Front Panel
Sealed Beam Dia.	5.75
Dimmed By	Foot Switch (raises & lowers beam)
High Beam Ind.	In Speedometer Dial

## Lamp Usage

TRADE NO.	RATING	PART NO.	ITEM	QUAN- TITY	APPLICABILITY	
					STD.	RPO
53	1CP	131282	Air Heater Control Panel	1		X
			Gas Heater Control Panel	1		X
			High-Beam Indicator	1	X	
			Direction Signal Indicator	2	X	
			Powerglide Selector Window	1		X
			Traffic Hazard Switch	1		X
			Cigar Lighter	1		X
57	2CP	127934	Open Side Door Tell-Tale	1		*
			Instrument Cluster	2	X	
			Oil Pressure & Temp. Tell-Tale	1	X	
			Generator Charging Tell-Tale	1	X	
			Dispatch Box	1		X
67	4CP	142450	License	2	X	
89	6CP	142452	Courtesy	2		X
211	12CP	9414045	Dome	1	X	
			Rear Compartment Dome	1		**
1034	32/4CP	454645	Tail, Stop, & R. Direction Signal	2	X	
			Parking & F. Direction Signal	2	X	
1891	2CP	456985	Radio Dial	1		X
4001	37.5W	5948501	Headlamp - Inner	2	X	
4002	¢	5948502	Headlamp - Outer	2	X	
4405	30W	456720	Spotlamp	1		X
4416		455242	Spotlamp - Portable	1		X

\* - For Model R1206 double side doors.

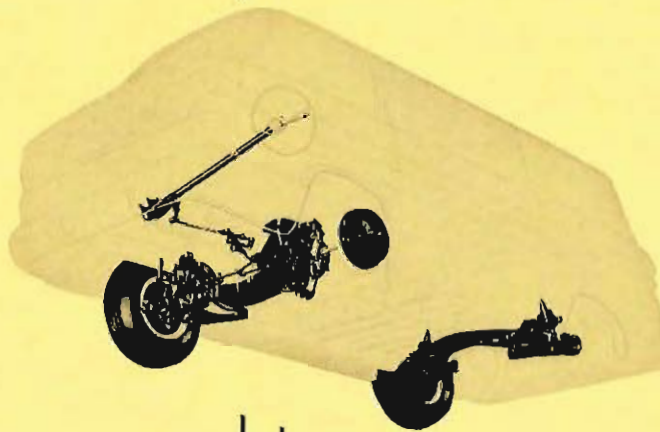
\*\* - For Models R1205 and R1206 only.

¢ - Upper beam, 37.5W; lower beam 50W.

## Fuse and Circuit Breaker Usage

TYPE	AMPS.	PART NO.	LOCATION	APPLICABILITY
3AG or AGC	3	106652	Fuse Block	Clock (Accessory)
			Dome Lamp Cable	R. Compartment Dome Lamp (Accessory)
SAE	20	106653	Fuse Block	Instrument Cluster Lamps
				Windshield Wiper Motor
				Gas Heater Purge Switch (Accessory)
				Spotlamp (Accessory)
				Gas Heater Blower (Accessory)
				Tail, Stop, Dome Lamp
				Dispatch Box Lamp (Accessory)
				Air Heater Blower (Accessory)
				Courtesy Lamp (Accessory)
				Open Side Door Tell-Tale (Option)
3AG or AGC	10	117142	Fuse Block	Gas Heater Blower (Accessory)
				15
3AG or AGC	4	148511	Fuse Block	Courtesy Lamp (Accessory)
				15
Circuit Breaker Flasher	15	3713382	Main Light Switch	Radio Receiver (Accessory)
		3713382	Fuse Block	Headlamps & Parking Lamps
				Direction Signal Lamps

# CHASSIS

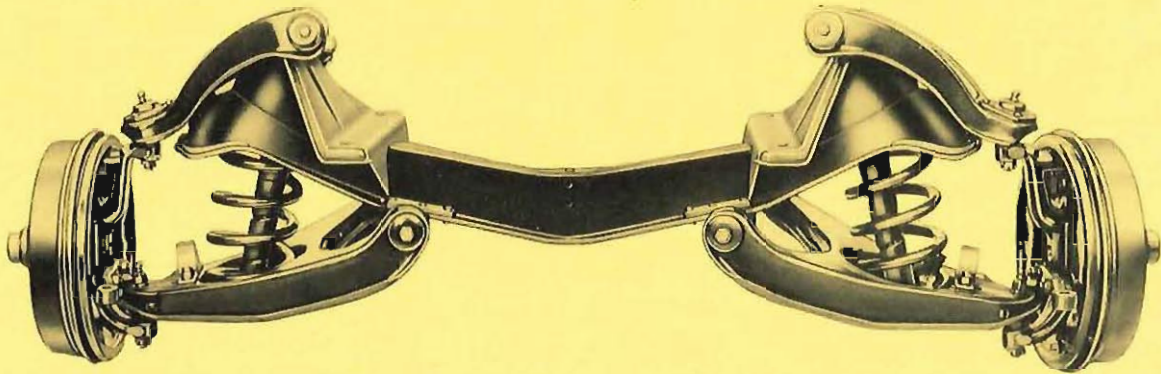


FRONT SUSPENSION .....	3
REAR SUSPENSION .....	6
STEERING .....	8
BRAKES .....	10
TIRES AND WHEELS .....	10





# FRONT SUSPENSION



## GENERAL

Type -----	Independent, incorporating anti-dive geometry, joints and coil springs mounted on a removable cross member
Capacity -----	2500 lbs.

## CONTROL ARMS

Material -----	Steel stampings
----------------	-----------------

## UPPER CONTROL ARM PIVOT SHAFT

Material -----	Forged steel
Diameter -----	.666
Length -----	12.66

## UPPER CONTROL ARM BUSHING

Material -----	Case hardened, carbo-nitride steel
Type -----	Serrated, pressed fit
Diameter -----	ID .670-.677 OD 1.276-1.281

## STEERING KNUCKLE UPPER CONTROL ARM BUMPER

Material -----	SAE R415
Diameter -----	1.50 inches

## LOWER CONTROL ARM SHAFT

Material -----	Forged steel
Diameter -----	.736/.731
Length -----	14.36



## FRONT SUSPENSION—Cont'd.

### LOWER CONTROL ARM BUSHING

Material ----- Case hardened, carbo-nitride steel  
 Type ----- Serrated, pressed fit  
 Diameter ----- ID . 737-. 744  
 OD 1. 323-1. 328

### STEERING KNUCKLE LOWER CONTROL ARM BUMPER

Material ----- SAE R620 K2  
 Diameter ----- 1. 80 inches

### SPHERICAL JOINTS

Type ----- Ball stud and socket  
 Number ----- One each, upper and lower  
 Ball stud material ----- Cold upset steel  
 Ball diameter - upper ----- 1. 304-1. 308  
 lower ----- 1. 246-1. 250  
 Bearing seat surface ----- Molded, phenolic impregnated fabric  
 laminations, upper and lower.  
 Socket-type and material ----- Two-piece, bonded by a grease tight  
 weld with a non-metallic bearing  
 liner, upper and lower  
 Socket lubrication ----- Chassis grease

### STEERING KNUCKLES

Material ----- Forged, heat treated steel  
 Spindle diameter - At inner bearing ----- 1. 2493-1. 2498  
 At outer bearing ----- . 7492-. 7497  
 Spindle thread ----- 3/4-20

### SPRINGS

	R1205, 44, 54 RPO R1206	Chevrolet R1206
Make -----		Chevrolet
Type -----		RH helix
Material -----		High alloy steel
Number of coils - active -----		5. 08
total -----		6. 42
Wire diameter -----	. 677	. 650
Outer diameter -----	5. 154	5. 100
Theoretical pitch diameter -----	4. 477	4. 450
Free overall height -----	12. 43	12. 44
Height at normal load -----	7. 86 @ 1860 lbs	7. 86 @ 1610 lbs
Height at maximum load -----	5. 94 @ 3022 lbs	5. 94 @ 2616 lbs
Deflection rate at spring -----	605 lb/in	5. 24 lb/in
Deflection rate at wheel -----		175 lb/in
Sprung capacity -----	1040 lbs each	905 lbs each
Capacity at ground -----	1150 lbs each	1015 lbs each

**FRONT SHOCK ABSORBERS**

Application	Regular Production	RPO Heavy Duty
Make	Delco	
Type	Hydraulic, direct double acting	
Mounting location	Mounted vertically within coil spring, between control arm and suspension cross member.	
Model number	R5180G	691J
Valve code	C2.5 (6) N10/F1-46	5 (1) E10/N2
Piston diameter	1.00	1.375
Piston travel	5.00	

**WHEEL BEARINGS**

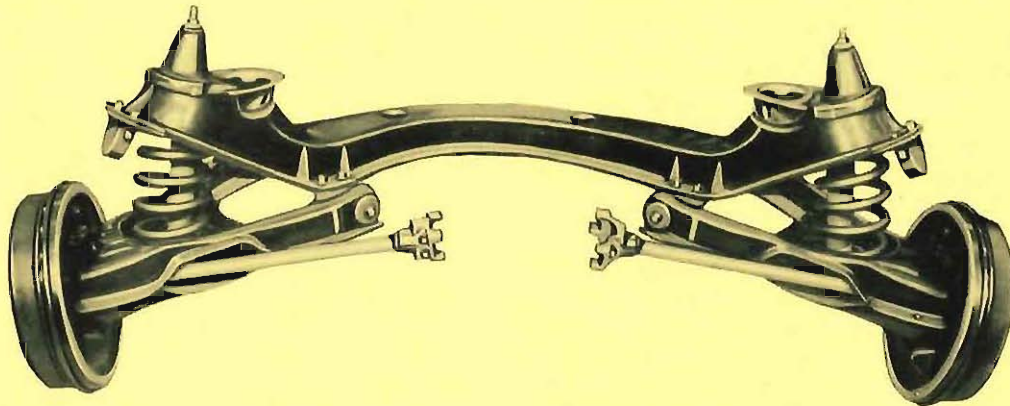
Type -----	Single row tapered roller, inner and outer
Part number - inner -----	7450630
outer -----	7450627

**FRONT SUSPENSION GEOMETRY**

ITEM	DESIGN	CURB
Toe in per wheel	.00-.031	.031-.093
Camber	+0° 30' ± 0° 30'	+0° 15' ± 0° 30'
Caster	+4° ± 0° 30'	+2° 30' ± 0° 30'



## REAR SUSPENSION



### GENERAL

Type -----	Independent swing type, using hat section type lower control arms, coil springs and shock absorbers.
Capacity -----	2500 lbs

### CONTROL ARMS

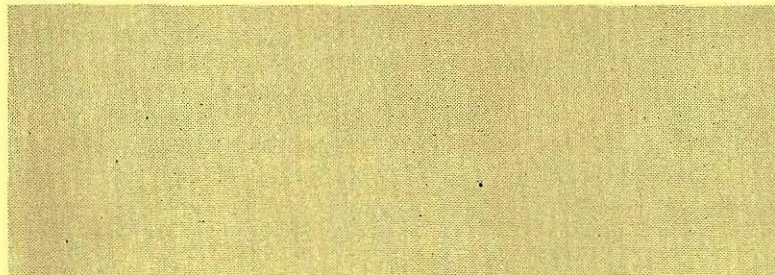
Material -----	Steel stampings
----------------	-----------------

### CONTROL ARM PIVOT SHAFT

Type -----	Rubber bushed at both ends
Attachment -----	Bolted to crossmember
Material -----	Drop forged steel
Diameter -----	.731-.736
Length -----	14.31

### CONTROL ARM BUSHINGS

Material - outer sleeve -----	Stainless steel
inner sleeve -----	Case hardened, carbo-nitride. Rubber cushion between inner and outer sleeves.
Type -----	Serrated, pressed fit.
Diameter -----	ID .737-.744 OD 1.323-1.328



### SPRINGS

Make -----	Chevrolet
Type -----	RH helix coil
Material -----	High alloy steel
Number of coils - active -----	6.50
total -----	6.95
Wire diameter -----	.710
Outer diameter -----	4.873
Theoretical pitch diameter -----	4.163
Free overall height -----	12.520
Height at normal load -----	7.6 @ 1920 lbs
Height at maximum load -----	5.9 @ 2943 lbs
Deflection rate at spring -----	750 lb/in
Deflection rate at wheel -----	228 lb/in
Sprung capacity -----	1050 lbs each
Capacity at ground -----	1150 lbs each

### SHOCK ABSORBERS

Type -----	Direct, double acting hydraulic.
Make -----	Delco
Piston - diameter -----	1.000
travel -----	5.000
Mounting location -----	Mounted vertically within coil spring, between control arm and suspension cross member.

### WHEEL BEARINGS

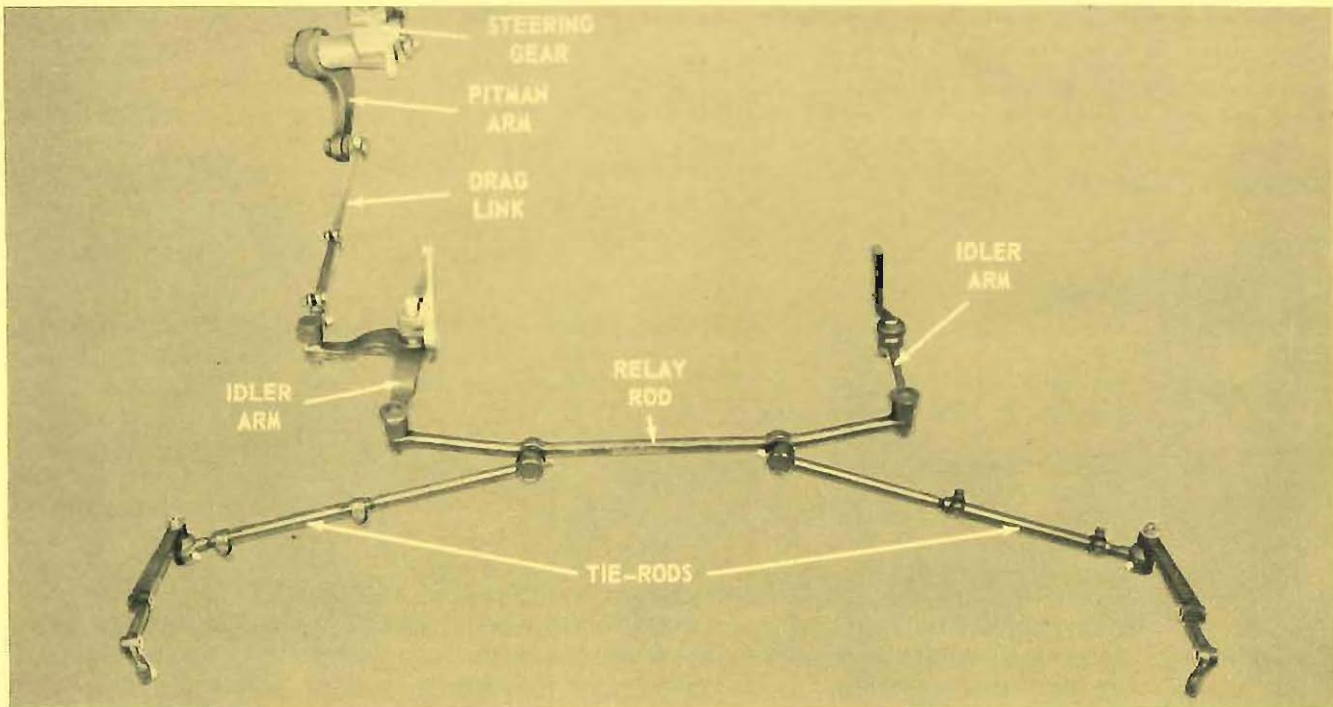
Type -----	Double row barrel
Make -----	Hyatt, ZCE 6635

### REAR SUSPENSION GEOMETRY

Camber at Design load -----	1/8°±30'
Camber at Curb -----	5-3/4°±30'
Toe-in at Design load -----	-1/8 to + 1/8"
at Curb -----	1/8 to 3/8"



# STEERING



## STEERING GEAR

Make and Material			Saginaw steering gear, malleable iron
Type			Recirculating ball
Ratio			20:1
Overall steering ratio			23:1
Steering shaft diameter			.750
Steering column diameter			1.995-2.0005
Gear adjustment (pounds pull at steering wheel rim)			No lash 7/8 to 1-1/2 at 8.5 radius Lash 1/2 to 3/4 at 8.5 radius
Mounting			On frame side rail
Steering wheel size and type			17 inch, two spoke
Number of steering shafts			One
Material			Carburized, heat treated steel
Pitman shaft	Diameter	Outer end	1.1205-1.1215
		Inner end	1.1230-1.1240
Material			Cast bronze
Pitman shaft	Outer	ID	1.1245-1.1255
		Length	1.370-1.380
Bushings	Inner	ID	1.1255-1.1260
		Length	.840
Location			Straddle mounted in steering gear housing
Type			Worm welded to steering shaft
Shaft diameter			.750
Worm and Steering Shaft	Bearings	Type	Ball
		Part number	266800
	Upper & lower Bearings	Type	Single row ball
		Part number	5666693

## Steering Linkage

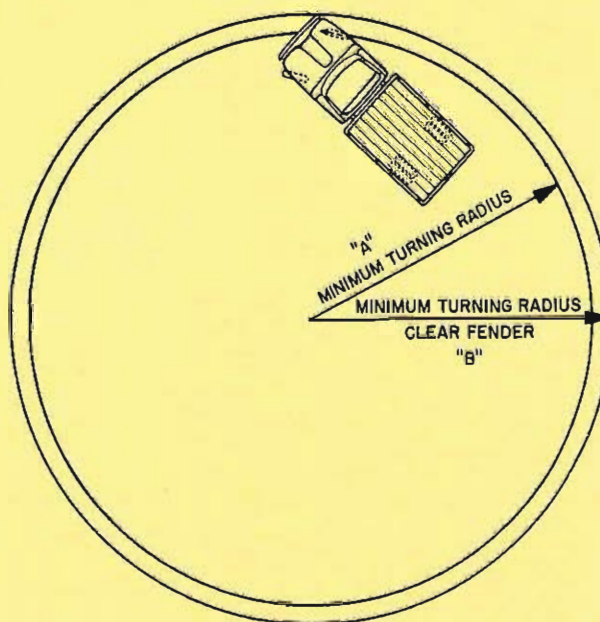
Type	Parallel relay
Number of tie rods	Two
Tie rod type	Adjustable dual equal length
Idler arm mounting	On RH frame side rail
Relay rod	One, with tie rods attached
Connecting rod attachment	To pitman arm at one end and to steering relay and connecting rod arm assembly at the other end

## Turning Radii

Radius clearance at curb	19.6 feet
Wall to wall clearance	21.3 feet

"A" DIMENSION = Measured to the edge of the front tire at the outside of the circle. This indicates radius clearance required at curb height.

"B" DIMENSION = Measured to outer extremity of truck (front bumper or fender) indicating required wall-to-wall radius clearance.

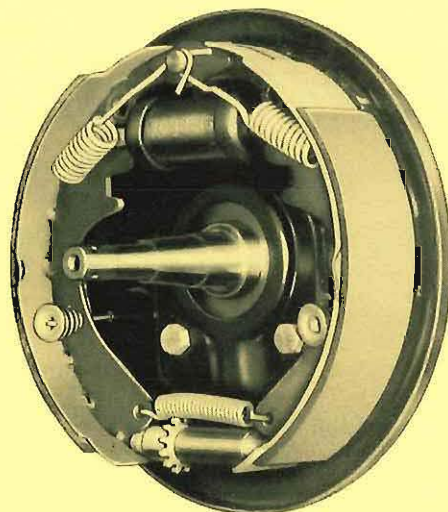




# BRAKES, TIRES, AND WHEELS

## Service and Parking Brake

Type	Duo-Servo, 4-wheel hydraulic		
Drum	Type	Composite	
	Material	Rim	Cast alloy iron
		Web	Pressed steel
	Diameter	Front	10.955
		Rear	10.955
Effective area	275.33 sq. in. total		
Lining	Material	Full molded asbestos	
	Width	Front	2.000
		Rear	2.000
	Facing Thickness	Front	.168
		Rear	.168
	Attachment	Bonded	
	Shoe anchor	Peened fixed anchor	
	Effective area	167.10 sq. in. total	
Master Cylinder	Diameter	1.00	
	Make	Moraine	
	Push rod travel	1.329	
Wheel Cylinder	Diameter	Front	1.125
		Rear	1.000
	Brake Distribution	Front	50% ± 2%
		Rear	50% ± 2%
Brake Lever Ratios	Pedal	6.8	
	Hydraulic	4.52	
	Overall	30.74	
Parking Brake	Type	Mechanical pull type, cables to rear service brakes	
	Effective lining area	83.55 sq. in. total	
	Operation	Lever under dash	



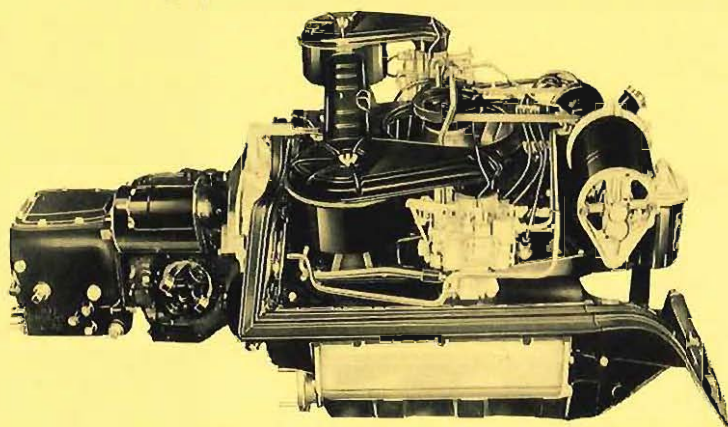
## Tires and Wheels

BASE OR RPO	FRONT	MAX. LOAD (LB)	INFL. PRESS. (LB)	REAR	MAX. LOAD (LB)	INFL. PRESS. (LB)	SECTION WIDTH (IN)	LOADED ROLLING RAD.(IN)	REVS/ MILE LOADED
Base	7.00-14-4			7.00-14-4					
132	7.00-14-4	975	24	7.00-14-4	1065	28	7.18	12.16	810
647 †	7.00-14-4			7.00-14-4					
132 †	7.00-14-4	7.00-14-4							
648	7.00-14-6	975	28	7.00-14-6	1065	28			
132 †	7.00-14-6			7.00-14-6					
674 †	7.00-14-6			7.00-14-6					
	7.00-14-6			7.00-14-6					

\* - All wheels are 14 x 5J Mod. short spoke disk type with .56 offset and 5-stud, 7/16 diameter attachment.

† - Narrow whitewall type.

# POWER TRAINS

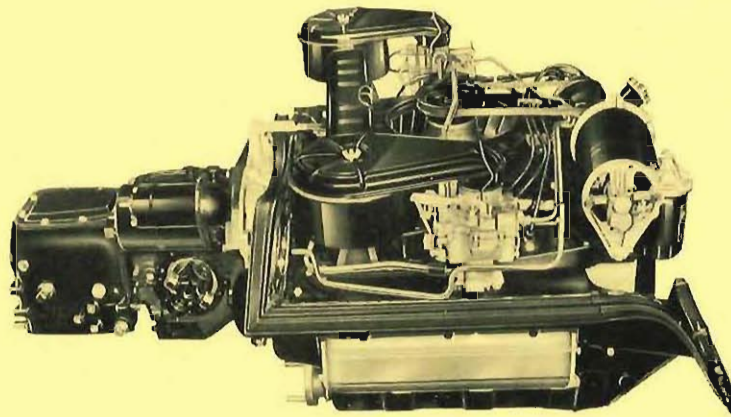


POWER TEAMS .....	2
SIX CYLINDER ENGINE - HIGH TORQUE 145 .....	3
CLUTCH .....	15
TRANSAXLE .....	16



# POWER TEAM COMBINATIONS

## BASIC POWER TRAIN ARRANGEMENT



### Power Team Combinations

ENGINE	CLUTCH	AXLE	TRANSMISSION	AVAILABILITY
Turbo-Air 145 cu. in.	9-1/8" dia.	3.89:1	3-speed synchromesh	Standard
		3.89:1	4-speed synchromesh	Optional
	---	3.89:1	2-speed automatic	Optional

### Multiplication Factors - Manual Transmission

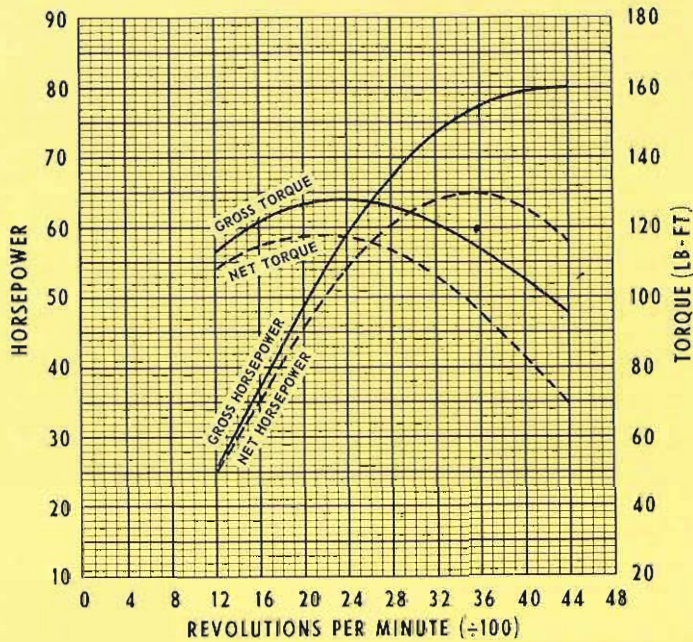
TRANSMISSION	TOTAL GEAR REDUCTION*					MAXIMUM AXLE SHAFT TORQUE <sup>†</sup>
	1ST	2ND	3RD	4TH	REVERSE	
3-speed	13.61	7.74	3.89	---	15.44	1365 Lb. Ft.
4-speed	14.20	9.14	5.60	3.89	14.24	1424 Lb. Ft.

### Multiplication Factors - Automatic Transmission

TRANSMISSION	TOTAL GEAR REDUCTION*		MAXIMUM AXLE SHAFT TORQUE <sup>†</sup>
	DRIVE	LOW & REVERSE	
Two-Speed Automatic	18.39-3.89:1	18.39-7.07:1	1845 Lb. Ft.

\* - Axle ratio x transmission ratio

† - In low transmission gear. Gear reduction x maximum net engine torque x efficiency factor (0.90 in direct, 0.85 all others)



### Performance Data

ENGINE	STANDARD & AUTOMATIC TRANSMISSIONS	
Brake Horsepower	Gross	80 @ 4400
	Net	65 @ 3600
Torque	Gross	128 @ 2300
	Net	118 @ 2200

### General Engine Data

TRANSMISSION	STANDARD	AUTOMATIC
Type	6-cylinder horizontally opposed OHV	
Piston displacement (cu. in.)	145	
Bore and stroke	3.437 x 2.600	
Compression ratio	8.0:1	
Taxable horsepower (SAE)	28.4	
Idling speed (RPM)	500	
Compression pressure-hot (psi)	140	
Dry weights (lbs)	Engine & clutch 316	294
	With transaxle 425 (431 w/4-spd.)	439
Lubrication	Full Pressure	
Power plant mounting	Two front and one rear. Shear type front; compression type rear.	
Measurements	Width	36.72
	Length	29.00
	Height	17.00

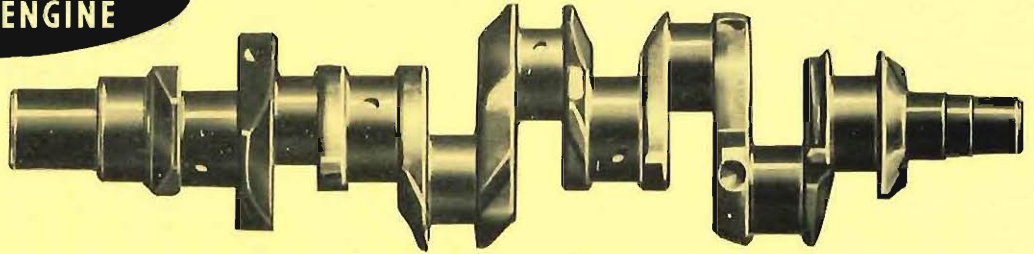
### Engine Speed and Piston Travel

TRANSMISSION	THREE SPEED	FOUR SPEED	AUTOMATIC	
Tire Size	7.00-14-4PR			
Crankshaft revolutions per mile	3150.90			
Axle ratio	3.89:1			
Crankshaft RPM @ 1 mph*	Low	183.8	191.6	229.4-95.5
	Reverse	208.4	192.2	
	Second	104.5	123.4	52.5
	Third	52.5	75.6	---
	Fourth	---	52.5	---
Piston travel (ft./mi)	1365.4			

\* - Also known as n/v factor when taken in direct drive.



**140 CUBIC INCH  
SIX CYLINDER ENGINE**



**CYLINDER HEADS**

Material -----	Permanent mold cast aluminum with integral cooling fins
Number of head bolts -----	24
Valve seat insert material	
Inlet -----	Cast nickel steel alloy
Exhaust -----	Cast chromium steel alloy
Valve seat angle	
Inlet and exhaust -----	45°

**CYLINDERS**

Type -----	Induction cast with integral cooling fins
Material -----	Cast iron
Bore diameter -----	3.4370-3.4400

**CRANKCASE**

Type -----	Molded into L & RH halves
Material -----	Cast aluminum

**CRANKSHAFT**

Material -----	Drop forged steel
End play -----	.002-.006
Vibration damper -----	Oscillating (rubber mounted)
Connecting rod journals	
Width -----	.8585-.8615
Diameter -----	1.799-1.800
Counterweights -----	None
Stroke -----	2.595-2.605
Pulley pitch diameter -----	6.64

**MAIN BEARINGS**

Material -----	Heavy duty copper lead alloy
Type -----	Precision, removable
End thrust -----	One pound
Clearance -----	.0012-.0037
Journal diameter	
#1 & 2 -----	2.0978-2.0988
#3 & 4 -----	2.0983-2.0993

BEARING	THEO. ID	EFF. LENGTH	PROJ. AREA
1	2.1008	.785	1.649
2	2.1008	.752	1.580
3 & 4	2.1013	.752	1.580



### CAMSHAFT

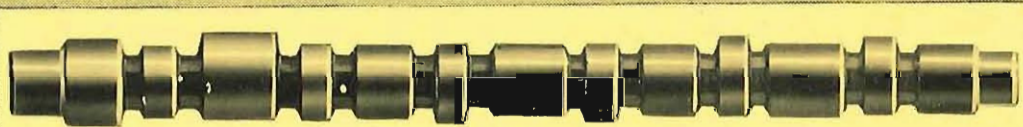
Material -----	Cast alloy iron
Drive -----	Gear
Gear material	
Crankshaft -----	Steel
Camshaft -----	Permanent mold cast aluminum
Bearing -----	No inserts, camshaft is indirect contact with crankcase

### VALVE MECHANISM

Type -----	Rocker arm and ball stud, push Rod actuated
Lifters -----	Hydraulic
Body material	
Foot -----	Cast iron
Sleeve -----	Steel
Plunger -----	Steel
Rocker arm ratio	1.50:1
Valve lash (hot) -----	Zero

### VALVE TIMING, THEORETICAL

Inlet	
Opens -----	43° BTC
Closes -----	93° BTC
Exhaust	
Opens -----	87° BBC
Closes -----	69° ATC
Tappet lift	
Inlet -----	.20920
Exhaust -----	.22935
Valve lift	
Inlet -----	.314
Exhaust -----	.344
Inlet and exhaust	
Opening & closing -----	.0044, 12° long





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

## INLET VALVES

Material -----	AISI A-3140
Overall length -----	4.489-4.509
Overall head diameter -----	1.335-1.345
Seat angle (in head) -----	45°
Stem diameter -----	.3415-.3422
Stem to guide clearance -----	.0010-.0027
Lift -----	.3601
Face angle @ coating -----	44°, aluminized

## EXHAUST VALVES

Material -----	High alloy steel, 21-4N
Overall length -----	4.494-4.514
Overall head diameter -----	1.235-1.245
Seat angle (in head) -----	45°
Stem diameter -----	.3410-.3417
Stem to guide clearance -----	.0015-.0032
Lift -----	.3601
Face angle @ coating -----	44°

## VALVE GUIDES

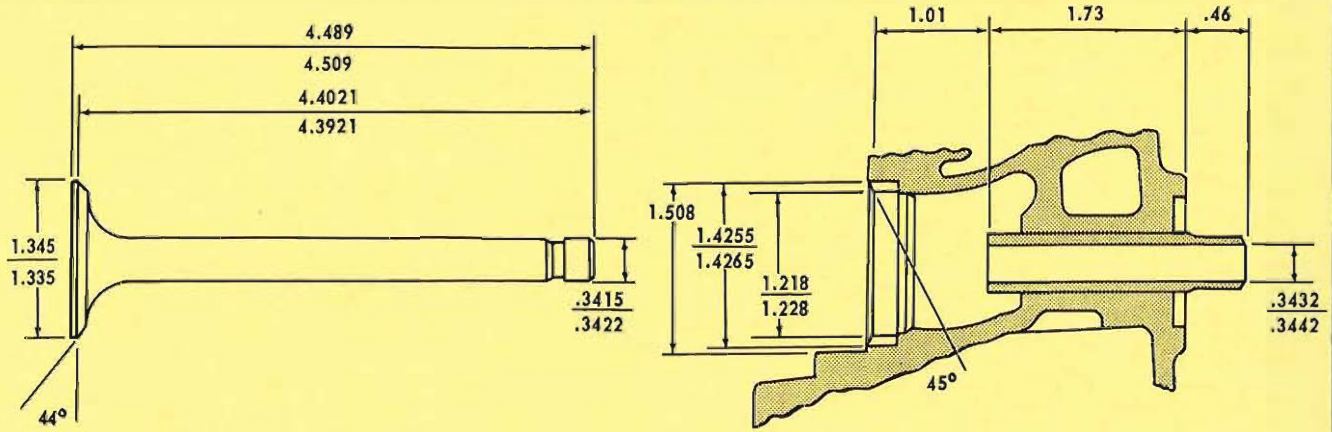
Material	
Inlet -----	Cast iron
Exhaust -----	Cast iron

## VALVE SPRINGS

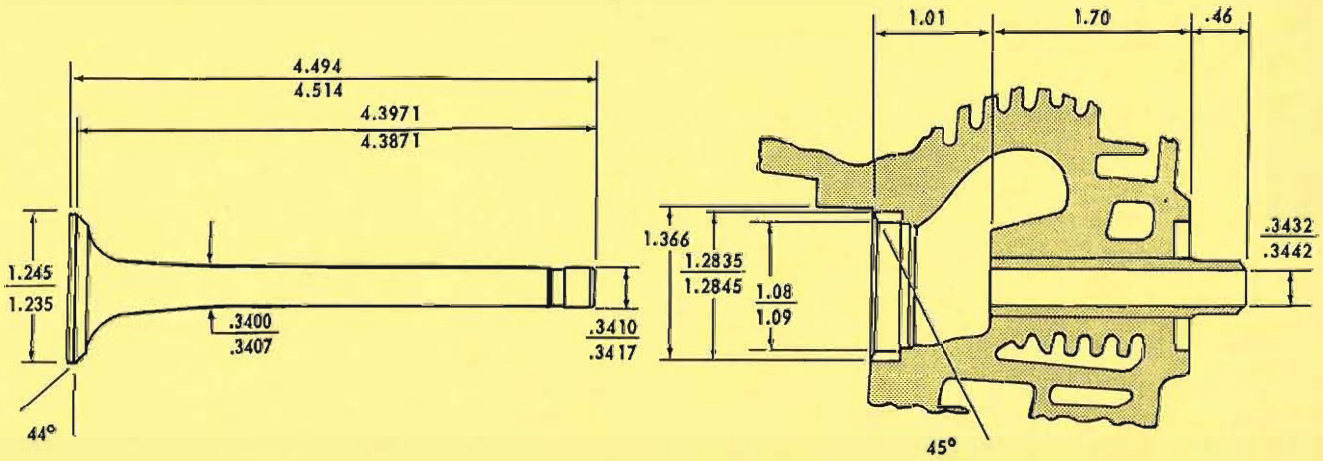
Free length	
Inlet -----	1.74
Exhaust -----	1.74
Compressed length & pressure	
Valves closed, inlet & exhaust -----	1.508 @ 58-64 lb.
Valves opened, inlet & exhaust -----	1.148 @ 141-149 lb.



INLET



EXHAUST





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

## PISTONS

Type -----	Slipper skirt, autothermic
Offset -----	.055-.065
Material -----	Cast alloy aluminum
Weight (ounces) -----	15.9
Top land clearance -----	.022-.031
Skirt clearance -----	.0011-.0015
Compression ring groove depth -----	.193-.198
Oil control ring groove depth -----	.194-.199
Length -----	3.36

## PISTON PINS

Type -----	Pressed in rod
Material -----	Alloy steel
Length -----	2.630-2.650
Diameter -----	.7999-.8002
Clearance -----	.00015-.00025
Direction of offset -----	Major thrust side
Piston pin offset -----	.055-.065

## COMPRESSION RINGS

Type -----	Inside bevel or counterbore
Material -----	Cast alloy iron
Coating -----	Wear resistant
Width -----	.0770-.0780
Wall thickness -----	.162-.172
Gap -----	.010-.020

## OIL CONTROL RINGS

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

## CONNECTING RODS

Material -----	Drop forged steel
Length (center to center) -----	4.719-4.721
Weight (ounces) -----	13.73
Bearings	
Type -----	Precision removable
Material -----	HD copper lead alloy
End play -----	.005-.010
Clearance -----	.0007-.0027
Effective length -----	.649
Theoretical ID -----	1.8012
Projected area -----	1.169
Total area -----	7.014



### CAMSHAFT BEARINGS (MACHINED IN CRANKCASE)

Total effective length -----	3.50
Front -----	.83
Front intermediate -----	.86
Rear intermediate -----	.86
Rear -----	.95
Running clearance -----	.0015/.0035
Total projected area -----	4.5275 sq. in.
Front -----	1.197 sq. in.
Front intermediate -----	1.094 sq. in.
Rear intermediate -----	1.094 sq. in.
Rear -----	1.1424 sq. in.

### Cooling System

#### GENERAL

Type ----- Air cooled by blower

#### ENGINE BLOWER

Type ----- Centrifugal  
 Location ----- Mounted horizontally on top center of engine  
 between air cleaner and crankcase  
 Material ----- Steel  
 Diameter ----- 11.00  
 Bearing ----- Sealed, permanent lube ball bearing  
 Number of vanes ----- 24  
 Drive ----- By "V" belt from crankshaft over idler  
 and generator pulleys  
 Air flow ----- 1850 CFM @ 4000 engine rpm's  
 Blower pulley pitch diameter ----- 4.1875  
 Ratio (blower to engine speed) ----- 1.58:1  
 Idler pulley pitch diameter ----- 3.32  
 Belt ----- "V"  
 Pitch length ----- 55.7  
 Width ----- .380±.055  
 Angle of "V" ----- 40°

#### ENGINE COOLING AIR THERMOSTAT

Type ----- Bellows (seamless)  
 Make ----- Harrison  
 Bellows start to open at ----- 200-210° F  
 Fully open at ----- 225-230° F

#### ENGINE COOLING AIR VALVE

Material ----- Steel  
 Inner diameter ----- 7.48  
 Height ----- 2.48



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

**Fuel and Exhaust System**

**FUEL TANK**

Location -----	Under front seat
Capacity -----	18.6 gallons
Filler location -----	LH side, rear of door

**FUEL PUMP**

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

**AIR CLEANER**

Type -----	Oil wetted
Element material -----	Polyurethane
Location -----	Individually mounted to carburetors

**CARBURETOR**

Number -----	Two (one per cylinder bank)
Make -----	Rochester
Model -----	7020101
Type -----	Single barrel, downdraft
Fuel filter location -----	Fuel inlet
Material -----	Sintered bronze
SAE flange size -----	0.75
Venturi type -----	Radial tube cluster
Diameter -----	1.00
Throttle bore -----	1.2495-1.2505
Stud centers -----	2.75

**INTAKE MANIFOLD**

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

**EXHAUST MANIFOLD**

Material -----	Cast iron
----------------	-----------

**EXHAUST SYSTEM**

Type -----	Single, diffusion & resonance
Muffler -----	Reverse flow
Exhaust pipe OD -----	1.875
Tail pipe OD -----	1.50



## Lubrication System

### GENERAL

Type -----	Controlled, full pressure
Main bearings -----	Pressure
Connecting rods -----	Pressure
Piston pins -----	Splash
Cylinder walls -----	Cross sprayed
Camshaft bearings -----	Pressure
Hydraulic lifters -----	Pressure
Timing gears -----	Sprayed
Crankcase capacity	
Dry -----	5.5 Qt.
Refill -----	4.0 Qt.
Dipstick location -----	Right rear of engine
Pressure gauge type -----	Electric
Crankcase ventilation -----	Road draft tube

### OIL FILTER

Type -----	Full flow
Capacity -----	1.0 Pt.

### OIL PUMP

Type -----	Gear
Location -----	In engine rear housing
Driven by -----	Distributor
Intake type -----	Fixed
Normal oil pressure -----	35 PSI @ 2000 rpm
Capacity -----	9 GPM @ 4000 rpm

### OIL COOLER

Make -----	Harrison
Material -----	Aluminum
Location -----	Rear of left cylinder bank
By-pass valve function -----	Allows cold oil to by-pass cooler
By-pass cooler begins to open -----	10 PSI

## Electrical System

### STARTING

Ignition switch -----	4-position; off, unlocked off, on and start
-----------------------	---

### IGNITION COIL

Make -----	Delco-Remy
Model -----	1115135
Amperes drawn	
Engine stopped -----	4.0
Engine idling -----	1.8



**145 CUBIC INCH  
SIX CYLINDER ENGINES—Cont'd.**

**Electrical System - Continued**

**STARTING MOTOR**

Make -----	Delco-Remy
Model -----	
Manual transmission -----	1108306
Automatic transmission -----	1108307
Test data -----	
Amperes -----	69
Volts -----	10.6
RPM -----	7675
Drive -----	
Engagement type -----	Solenoid
Number of teeth -----	9
Gear ratio clutch starter -----	16.3:1
Ring gear to starter -----	16.3:1

**GENERATOR**

Make -----	Delco-Remy
Model -----	1102227
Type -----	2-brush shunt
Drive -----	Blower belt
Pulley size -----	2.88 PD
Generator -----	116
Maximum generator output RPM (hot) -----	2400
Engine RPM @ maximum generator output -----	1065
Ratio (generator to engine speed) -----	2.30:1
Rating -----	
Amperes -----	30
Volts -----	14.5

**GENERATOR - 35 AMP. RPO 650**

Make -----	Delco-Remy
Model -----	1105135
Pulley size -----	2.55 PD
Type -----	Low cut-in heavy-duty
Charging rate -----	7-15 amps @ idle, 35 amps @ 13-16 MPH
Ratio (generator to engine speed) -----	2.6:1

**VOLTAGE AND CURRENT REGULATOR**

Make -----	Delco-Remy
Model -----	1119001
Type -----	Vibrator
Cut-out relay -----	
Closing voltage @ generator RPM -----	11.8-13.5 @ 1300
Regulated voltage -----	14.5
Regulated current amperes -----	30



## Electrical System - Continued

### DISTRIBUTOR

Make -----	Delco-Remy
Model -----	1110269
Housing material -----	Aluminum
Location -----	Rear engine housing
Driven off -----	Crankshaft
Breaker arm tension -----	19-23 ounces
Centrifugal spark advance begins RPM ----	400
Maximum degrees @ RPM -----	3.2 @ 3600
Vacuum advance begins -----	4.0 inches hg.
Maximum degrees @ inches hg. -----	24.5° @ 25
Breaker gap -----	.019
Nominal cam angle (dwell) -----	33°
Rotation -----	Clockwise

### IGNITION TIMING

Crankshaft degrees (initial setting) -----	4° BTC
Mark location -----	Crankshaft pulley
Firing order -----	1-4-5-2-3-6

### SPARK PLUGS

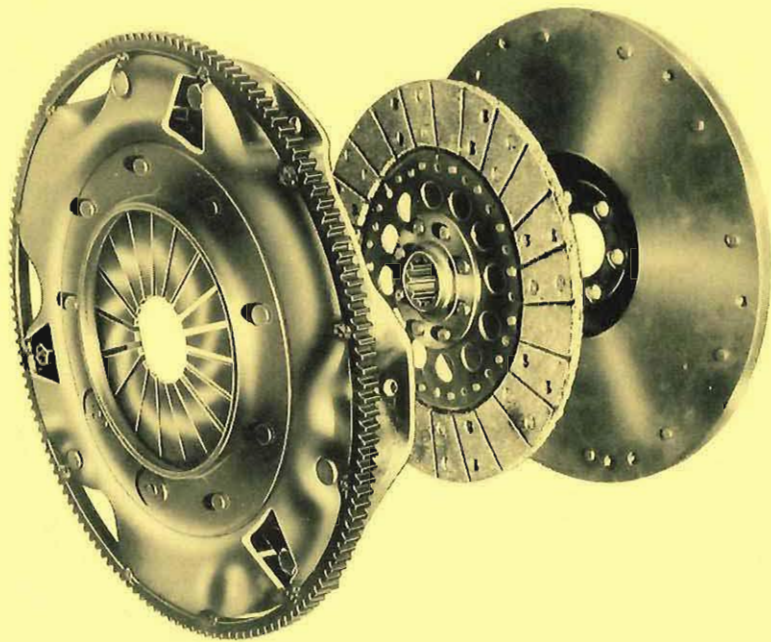
Make -----	AC
Model -----	46-FF
Thread size -----	14 MM
Gap -----	.035
Torque (lbs. ft.) -----	25

### BATTERY

Make -----	Delco
Model -----	1980556
Voltage rating -----	12
Capacity -----	40 amp. hr. @ 20 hr. rate
Plates per cell -----	9
Terminal grounded -----	Negative
Location -----	In engine compartment on LH side



CLUTCH





## GENERAL

Type ----- Single plate, dry disc  
Rated torque capacity ----- 160 lbs. ft.

## CLUTCH SPRING

Material ----- Spring steel heat treated  
Total pressure ----- 1000-1200 lbs.  
Release ----- Diaphragm action, spring pivots on pivot ring

## DRIVEN DISC

Type ----- Cushion plate with two facings  
Number of facings ----- Two  
Material ----- Woven type asbestos  
Outside diameter ----- 9.12  
Inside diameter ----- 6.12  
Area (both facings) ----- 71.82 sq. in.  
Thickness ----- 0.132-0.138

## BEARINGS

Clutch release bearing  
Make & part number ----- Chevrolet, 907052  
Lubrication ----- Permanently lubricated  
Pilot bearing  
Make & part number ----- Chevrolet 6256648  
Type ----- Sintered powdered bronze, oil impregnated  
Outside diameter ----- 0.8835-0.8845  
Inside diameter ----- 0.5915-0.5925  
Width ----- 0.740-0.760  
Lubrication ----- Self-lubricating

## CONTROLS

Clutch fork type ----- Forged, pivot mounted on ball  
Pedal mounting ----- Mounted through floor

## FLYWHEEL

Type ----- 3 piece, flexible construction  
Material ----- Cast iron  
Weight ----- 18.7 lbs.  
Starter to ring gear ratio ----- 16.3:1



# TRANSAXLE

## Transmission

### GENERAL DATA

Make -----	Chevrolet
Type -----	3-Speed synchromesh, manual shaft
Location -----	In rear, compartment integral with engine
Transmission case material -----	Cast aluminum alloy

### GEARSHIFT

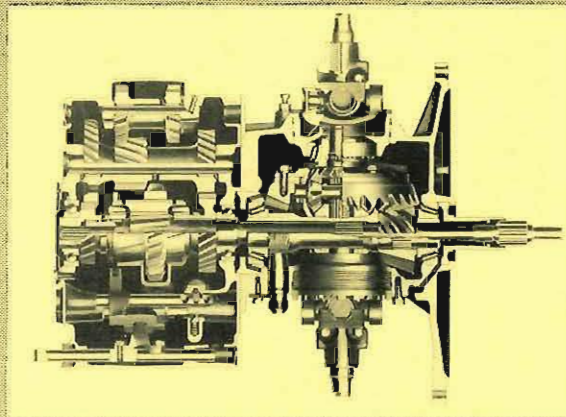
Control -----	Remote
Type -----	Lever
Location -----	Floor mounted

### GEARS

Type -----	Helical
Material -----	Forged steel, hardened
Synchronization -----	2nd and 3rd
Contant mesh gears -----	2nd and 3rd
Ratios	
First -----	3.50:1
Second -----	1.99:1
Third -----	1.00:1
Reverse -----	3.97:1

### LUBRICANT

Type recommended -----	Multi-purpose gear lubricant SAE 80
Capacity -----	1.9 pints





## Rear Drive

### GENERAL DATA

Type ----- Differential integral with engine and transmission, driving rear wheels

### AXLE SHAFT

Type ----- Forged & hardened steel with wheel drive flange forged integral with shaft  
Diameter ----- 1.296  
Hub attachment ----- Bolted to integrally forged wheel drive flange  
Drive flange diameter ----- 6.16

### DIFFERENTIAL

Type ----- 2 pinion  
Pinion teeth quantity ----- 10  
Pinion bearing ----- OD 2.6875-2.6885

### DRIVE DATA

Rear axle ratio ----- 3.89:1  
Ring gear ----- 35  
Pinion gear ----- 9  
Pinion offset ----- 1.75

### LUBRICANT

Capacity ----- 3.1  
Type ----- Multi-purpose gear lube (SAE 80)

### DIFFERENTIAL BEARING

Type ----- Roller  
Bearing -----  
OD ----- 3.0625-3.0626  
ID ----- 1.7812-1.7817  
Backlash ----- .005-.008

### MAIN SHAFT BEARING

Type ----- Barrel roller  
Inside diameter ----- 1.1802-1.1807  
Outside diameter ----- 2.440-2.442



# TRANSAXLE-Cont'd.

## Transaxle with Optional Automatic Transmission

### GENERAL DATA

Make and type -----	Chevrolet, hydraulic torque converter with automatic planetary gear system for reverse and low
Transmission case material -----	Cast aluminum alloy
Converter maximum torque ratio -----	2.6:1 at stall
Total transmission torque ratio (converter planetary gear ratio)	
Maximum overall transmission ratio ---	4.73:1
Low gear drive or low range -----	4.73:1 to 1.82:1
Reverse range -----	4.73:1 to 1.82:1
Oil type -----	Automatic transmission fluid type "A"
Oil filler location -----	Right side of engine
Oil capacity (pints)	
Dry -----	Approximately 13
Refill -----	Approximately 6
Oil cooled by -----	Air
Selector lever location -----	At right of steering column on instrument panel
Operation -----	Actuates manual valve in hydraulic control system
Positions -----	L-Low, D-Drive, N-Neutral, R-Reverse
Drive range - representative shaft points	
Closed throttle	
Upshift -----	10.0-12.5
Downshift -----	8-12
Throttle at detent	
Upshift -----	34-41
Downshift -----	23-30
Full throttle	
Upshift -----	41-47
Downshift -----	38-44

### HYDRAULIC CONTROLS

Manual valve type -----	Spool
Pressure regulator valve type -----	Spool
Governor	
Type -----	Centrifugal
Drive -----	From transmission output shaft

### HYDRAULIC TORQUE CONVERTER

Type -----	Three element
Driven member (turbine) -----	Sheet metal, multi-vane type, supported by torque converter housing cover. Turns independently of housing
Reaction member (stator) -----	Aluminum air foil type supported on a stationary sleeve by an over-running clutch of cam and roller design
Clutches	
Type -----	Multiple disc
High, number and type of discs	
Driving -----	Two, non-metallic faced
Driven -----	Three, steel
Reverse, number and type of discs	
Driving -----	Four, non-metallic faced
Driven -----	Three steel plate and one cast iron pressure plate



### PLANETARY GEAR UNIT

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

### Transaxle with Optional 4-Speed Transmission

#### GEARS

Type -----	Helical on all forward speeds, spur on reverse
Material -----	Forged steel, hardened
Synchronization -----	1, 2, 3, 4
Constant meshgears -----	1, 2, 3
Sliding -----	Reverse
Ratios	
First -----	3.65:1
Second -----	2.35:1
Third -----	1.44:1
Fourth -----	1.00:1 (direct)
Reverse -----	3.66:1

#### Bearings

#### TRANSMISSION ANTI-FRICTION

3-speed synchromesh	
Counter gear -----	435847, roller
Reverse idle gear -----	457202, roller
Clutch gear -----	904912, ball
Transmission rear -----	907258, ball
4-speed synchromesh	
Transmission mainshaft -----	904912, single row ball
Transmission countershaft -----	9414193, roller
Transmission mainshaft front -----	7451240, roller
Transmission 2nd speed gear thrust -----	9415297, roller
Clutch gear -----	904912, ball
2-speed automatic	
Transmission planet pinion -----	6256059, needle
Transmission planet pinion -----	6256686, needle

#### ENGINE ANTI-FRICTION

Engine blower -----	907175, double row ball
Blower belt idler pulley -----	907176, double row ball







1962 CORVAIR 95  
INDEX



## A B

Accessories . . . . . General  
Axle, rear . . . . . Power Trains  
Bearings . . . . . Power Trains  
Brake, parking . . . . . Chassis  
Brakes, service . . . . . Chassis  
Bulb data . . . . . Body  
Bumpers . . . . . Body

## C

Chassis electrical . . . . . Body  
Circuit breakers . . . . . Body  
Clutch . . . . . Power Trains  
Colors, exterior . . . . . Body  
Colors, interior . . . . . Body  
Cooling system, engine . . . . . Power Trains  
Cubic capacity . . . . . Dim & Weights  
Custom Equipment . . . . . Body

## D E

Dimensions, exterior . . . . . Dim & Weights  
Dimensions, interior . . . . . Dim & Weights  
Electrical system, engine . . . . . Power Trains  
Engine . . . . . Power Trains  
Engine identification . . . . . General  
Equipment, Custom . . . . . Body  
Exhaust system, engine . . . . . Power Trains  
Exterior colors . . . . . Body  
Exterior dimensions . . . . . Dim & Weights

## F G H

Front suspension . . . . . Chassis  
Fuel system, engine . . . . . Power Trains  
Fuses . . . . . Body  
Glass type . . . . . Body  
Horn . . . . . Body

## I

Identification, engine . . . . . General  
Identification, model . . . . . General  
Identification, rear axle . . . . . General  
Identification, transmission . . . . . General  
Instrument cluster . . . . . Body  
Instrument panel . . . . . Body

## J

Interior colors . . . . . Body  
Interior dimensions . . . . . Dim & Weights  
Interior materials . . . . . Body

## J L M

Jack . . . . . Body  
Lubrication system, engine . . . . . Power Trains  
Materials, interior . . . . . Body  
Model identification . . . . . General

## O P

Options, regular production . . . . . General  
Parking brake . . . . . Chassis  
Payloads . . . . . Dim & Weights  
Power team combination . . . . . Power Trains

## R S

Rear axle . . . . . Power Trains  
Rear axle identification . . . . . General  
Rear suspension . . . . . Chassis  
Regular production options . . . . . General  
Serial numbers, vehicle . . . . . General  
Steering . . . . . Chassis  
Suspension, front . . . . . Chassis  
Suspension, rear . . . . . Chassis

## T V

Tires . . . . . Chassis  
Transaxle . . . . . Power Trains  
Transmission . . . . . Power Trains  
Transmission identification . . . . . General  
Two-toning . . . . . Body  
Vehicle serial numbers . . . . . General  
Vehicle weights . . . . . Dim & Weights  
Visibility areas . . . . . Body

## W

Weights, vehicle . . . . . Dim & Weights  
Wheel alignment . . . . . Chassis  
Wheels . . . . . Chassis  
Windshield wipers . . . . . Body  
Wipers, windshield . . . . . Body