

1962

**CHEVROLET PASSENGER CAR
SPECIFICATIONS**

CHEVROLET ENGINEERING CENTER



ENGINEERING PRODUCT INFORMATION DEPARTMENT
WARREN MICHIGAN • OCTOBER 1961

INTRODUCTION

In the automobile industry, a specification is defined as any item in a detailed description of a mechanism. Usually the description is composed of separate specifications in tabular question and answer form.

Specifications of this nature, however, are not required in the manufacture of an automobile. All the information necessary for this process is given by the Engineering Department to the manufacturing and assembling plants in the forms of drawings and parts lists. But drawings and parts lists usually are not made available to other people who require information of the vehicle, since these records must be interpreted. Moreover, they and other engineering records are much too numerous or voluminous for convenient reference. Therefore, a special interpretation is made by the Engineering Department in the form of a specifications list or book, the contents of which are determined by the nature of questions people ask the Engineering Department concerning the vehicle.

As has been the experience of most manufacturers, originally the questions asked were few in number and were answered individually at the time they were asked. Through the years, however, many questions were asked quite frequently and, for convenience, the answers were recorded in the form of specifications. Others, which arose because of heightened interest and because of advancements in design, were added from time to time. As the automobile grew into a necessary means of transportation --- as its component units were advanced in design and as new ones were added --- and as manufacturers were forced to make more detailed comparisons of their vehicles with those of their competitors to satisfy an increasingly technically minded public --- more and more questions concerning the various characteristics of vehicles were answered in the form of specifications.

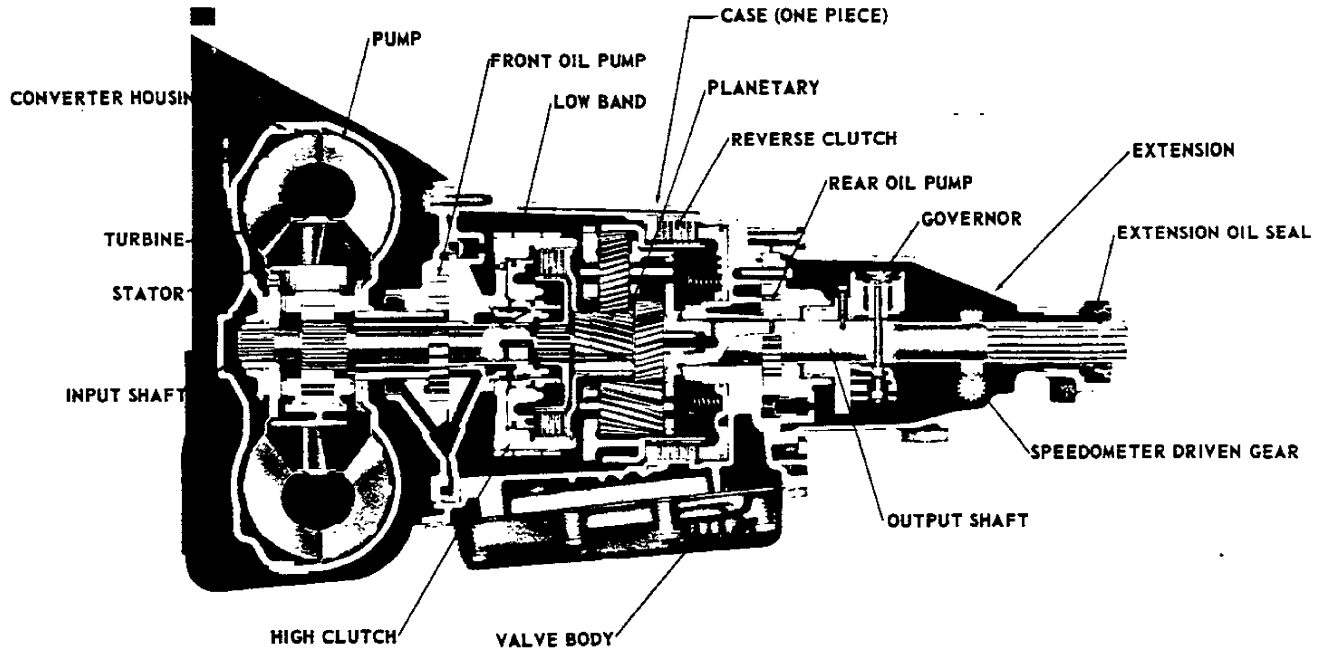
The Chevrolet Engineering Department has always been willing to answer questions of a technical nature concerning Chevrolet products and for the past thirty years has endeavored to anticipate such questions by preparing a specifications book each new model year.

This current book has been prepared to answer all the questions concerning the Chevrolet 1962 products that we believe may be asked.

It is intended primarily as a convenient and authoritative source of information for all Chevrolet executives, engineers, sales and service representatives, plant managers, and other personnel who must be in a position to answer such questions, and also as a common source of those Chevrolet specifications that are needed in advertisements, vehicle comparisons, trade publications, license applications and in correspondence with governments, firms, educational institutions, and individuals throughout the world who require a wide variety of information about Chevrolet products for diverse purposes.



Director - Engineering
Product Information



250 AND 300 HP ENGINES AUTOMATIC TRANSMISSION

GENERAL DATA

Type ----- Automatic hydraulic torque converter with planetary gear system for reverse and low.
 Selector Lever Location ----- Steering column
 Selector Lever Operation ----- Actuates manual valve in hydraulic control system.
 Selector Lever Quadrant Positions ----- P-R-N-D-L
 Parking Lock Type ----- Pawl and gear
 Parking Lock Operation
 For 135 and 170 hp engines ----- Applied by selector lever through direct linkage.
 For 250 and 300 hp engines ----- Applied by selector lever through spring-loaded linkage.
 Flywheel Assembly ----- Steel stamping with welded on ring gear.

HYDRAULIC CONTROLS

Manual Valve Type ----- Spool
 Pressure Regulator Valve ----- Spool
 Pressure Range (Minimum and maximum psi @ idle)
 For 135 and 170 hp engines 135 hp 170 hp
 Drive and neutral ----- 50-77 50-100
 Low and park ----- 77 120
 Reverse ----- 96-181 98-250
 For 250 and 300 hp engines 250 hp 300 hp
 Drive ----- 50-125
 Low ----- 125
 Reverse ----- 90-220
 Neutral and park ----- 50-125

GOVERNOR

Type ----- Centrifugal Drive
 For 135 and 170 hp engines ----- From gear on output shaft.
 For 250 and 300 hp engines ----- Mounted on output shaft.
 Location
 For 135 and 170 hp engines ----- Rear of transmission at left side.
 For 250 and 300 hp engines ----- In extension
 Operation ----- Regulates pump oil pressure to automatic shift control valve body.

ACCELERATOR PEDAL CONTROL (Output Shaft RPM)

For the 135 hp engine	Upshift	Downshift
Closed throttle -----	595	510
Throttle at detent -----	1590	665
Full throttle -----	2055	2080
For the 170 hp engine		
Closed throttle -----	595	510
Throttle at detent -----	1870	665
Full throttle -----	2345	2210
For the 250 hp engine		
Closed throttle -----	580	525
Throttle at detent -----	2140	840
● Full throttle -----	2500	2395
For the 300 hp engine		
Closed throttle -----	585	535
Throttle at detent -----	2400	895
Full throttle -----	2750	2635

POWERGLIDE (CONTINUED)

CONVERTER ASSEMBLY

Type ----- Three element
 Pump
 Construction
 For 135 and 170 hp engines ----- Inner and outer sheet steel shells separated by sheet steel vanes. Outer shell spot-welded to pump housing which is bolted or welded to converter housing. Flywheel assembly is bolted to converter housing.
 For 250 and 300 hp engines ----- Same except outer shell is pump housing which is welded to converter housing.
 Turbine
 Construction ----- Inner and outer shells separated by sheet steel vanes. Assembly supported in converter cover. Turns independently of converter cover and pump housing. Splined to input shaft.
 Stator ----- Aluminum air foil supported on a stationary sleeve by an over-running clutch of cam and roller design.
 Stall Torque Ratio ----- 2.10:1

PLANETARY GEAR UNIT

Type ----- Compound planetary
 Gear Ratio Range
 Drive ----- 1:1 Direct
 ● Low ----- 1.82:1
 ● Reverse ----- 1.82:1
 Low Brake Band ----- 3 linked circular segments.
 Low Band Servo ----- Piston with release spring and inner cushioning spring.

HIGH CLUTCH*

Type ----- Multi-disk
 Drive Plate
 Description
 For 135, 170 and 250 hp engines ----- Waved steel with bonded organic facings.
 For the 300 hp engine ----- Same except facings possess greater wear resistant properties.
 Number ----- 4
 Driven Plate
 Description ----- Flat steel
 Number ----- 5

REVERSE CLUTCH

Type
 For 135 and 170 hp engines ----- Band

* Higher-temperature-resistant rubber piston seals for 300 horsepower engine

● For the 250 and 300 HP engines, 1.76:1.

For 250 and 300 hp engines ----- Multi-disk
 Drive Plate
 Construction ----- Flat steel with bonded organic facings.
 Number ----- 6
 Reaction Plate
 Construction ----- Steel, waved
 Number ----- 5

SPEEDOMETER GEARS (with standard axle)

No. of Teeth
 Drive Gear ----- 8
 Driven Gear ----- 20

TORQUE MULTIPLICATION

For 135 and 170 hp engines
 Maximum overall ratio ----- 3.82:1
 Low and reverse ----- 3.82:1 to 1.82:1
 For 250 and 300 hp engines
 Maximum overall ratio ----- 3.70:1
 Low and reverse ----- 3.70:1 to 1.76:1

OIL PUMPS

General ----- Front and rear oil pumps are inter-connected by oil channels and supply pressure together or independently depending upon the action of the pressure regulator valve and check valve.
 Front Oil Pump
 Type ----- Internal-external gear
 Drive ----- Converter pump
 Function ----- Supply pressure to main system at low vehicle speeds.
 Rear Oil Pump
 Type ----- Internal-external gear
 Drive ----- Output shaft
 Function ----- Supply pressure to main system at high vehicle speeds and to transmission for push starts.

OIL COOLER

Description ----- Heat exchanger, rad bottom tank

LUBRICANT

Type ----- Type A, suffix A
 Capacity (pts)
 For 135 and 170 hp engines
 Dry ----- 21
 Refill ----- 9
 For 250 and 300 hp engines
 Dry ----- 18
 Refill ----- 3

**1962 CHEVROLET
AND
CORVETTE INDEX**

INDEX

1962 CHEVROLET PASSENGER CAR AND CORVETTE

A

Abbreviations and Symbols	(Intro) IV
Accessories, Dealer Installed	(Gen) 9
Accessories, Factory Installed	(Gen) 7-8
Accessories, Dealer Installed	(Corvette) 5
Accessories, Factory Installed	(Corvette) 5
Alignment, Front Wheel	(Chassis) 3
Axle Gears	(Chassis) 8
Axle Identification, Rear	(Gen) 4
Axle, Positraction	(Chassis) 8
Axle Ratios	(Corvette) 7
AXLE, REAR	(Chassis) 8
Axle, Rear	(Corvette) 7
Axle Shaft	(Chassis) 8

B

Back-up Lights	(Chassis) 11
Body Construction	(Body) 10
Body Glass	(Body) 11
Body Mounting Points	(Chassis) 2
Brake, Parking	(Chassis) 9
Brake, Parking	(Corvette) 7
BRAKES	(Chassis) 9
Brakes, Heavy-Duty	(Corvette) 8
Brakes, Power	(Chassis) 9
Brakes, Service	(Chassis) 9
Drum	9
Effort Distribution	9
Foot Pedal	9
Linings	9
Power	9
Brakes, Service	(Corvette) 7
Bulbs	(Chassis) 11

C

Cargo Capacities	(Dim & Wt) 6
CHASSIS	(Corvette) 6
Chassis, Heavy-Duty	(Corvette) 8
Circuit Breakers	(Chassis) 11
CLUTCHES	(Power Tr) 35
Color Combinations, Ext-Int	(Body) 3-6
Color Combinations, Ext-Int	(Corvette) 5
Control Bar, Lateral	(Chassis) 6
Convertible Top Colors	(Body) 6
Corvette Engines	(Corvette) 10-18

D

Differential	(Chassis) 8
Dimensions, Exterior	(Dim & Wt) 4, 5
Dimensions, Exterior	(Corvette) 2
Dimensions, Interior	(Dim & Wt) 2-3
Dimensions, Interior	(Corvette) 2
Dimensions, Station Wagon	(Dim & Wt) 6
Driveline	(Corvette) 7
DRIVELINES	(Chassis) 10

E

ELECTRICAL, CHASSIS	(Chassis) 11
ENGINE, HI-THRIFT 6-CYL	(Power Tr) 4-10
Air Cleaner	8
Battery	10
Bearings, Camshaft	6
Bearings, Main	6
Camshaft	6
Carburetor	8
Coil	10
Connecting Rods	8
COOLING SYSTEM	9
Crankcase Capacity	9
Crankshaft	6
Cylinder Block and Head	6
Distributor	10
ELECTRICAL SYSTEM	10
Engine Speed and Piston Travel	4
Engine Ratings	4
Exhaust System	8
Fan	9
Fan and Generator Belt	9
Filter, Oil	9
FUEL AND EXHAUST SYSTEM	8
Fuel Filter	8
Fuel Gauge	8
Fuel Pump	8
Fuel Tank	8
General Data	4
Generator	10
Lubricants	8
LUBRICATION SYSTEM	9
Oil Pressure Sending Unit	9
Oil Pump	9
Performance Factors, Vehicle	5
Piston Pins	8
Pistons	7
Power Curve	5
Radiator	9
Radiator Cap	9
Radiator Hose	9
Rings, Compression	7-8
Rings, Oil	8
Spark Plug	10
Starting Motor	10
Thermostat	9
Valves	7
Valve Springs	7
Valve Timing	7
Valve Train	7
Ventilation, Crankcase	9
Voltage and Current Regulator	10
Water Pump	9
ENGINE, 283 CUBIC INCH V-8	(Power Tr) 11-18
Air Cleaner	16
Battery	18
Bearings, Camshaft	14
Bearings, Main	14

INDEX

E	E
ENGINE, 283 CU IN V-8 (Contd) . . . (Power Tr) 11-18	ENGINE, 327 CU IN V-8 (Contd) . . . (Power Tr) 19-26
Bearings, Main 14	409 CU IN V-8 (Contd) . . . (Power Tr) 27-34
Carburetors 16	Bearings, Main 22, 30
Centrifugal Advance 18	Carnshaft 22, 30
Coil 18	Carburetors 24, 32
Connecting Rods 16	Centrifugal Advance 26, 34
COOLING SYSTEM 17	Coil 26, 34
Crankshaft 14	Connecting Rods 24, 32
Cylinder Block and Head 14	COOLING SYSTEM 25, 33
Distributor 18	Crankshaft 22, 30
Drain Locations 17	Cylinder Block and Head 22, 30
ELECTRICAL SYSTEM 18	Distributor 26, 34
Engine Speed and Piston Travel 11	ELECTRICAL SYSTEM 26, 34
Engine Ratings 11	Engine Speed and Piston Travel 19, 27
Exhaust System 16	Engine Ratings 19, 27
Fan 17	Exhaust System 24, 32
Fan and Generator Belt 17	Fan 25, 33
FUEL AND EXHAUST SYSTEM 16	Fan and Generator Belt 25, 33
Fuel Filter 16	FUEL AND EXHAUST SYSTEM 24, 32
Fuel Gauge 16	Fuel Filter 24, 32
Fuel Pump 16	Fuel Gauge 24, 32
Fuel Tank 16	Fuel Pump 24, 32
General Data 11	Fuel Tank 24, 32
Generator 18	General Data 19, 27
Ignition Timing 18	Generator 26, 34
Inlet Manifold 14	Ignition Timing 26, 34
Lubricants 17	Lubricants 25, 33
LUBRICATION SYSTEM 17	LUBRICATION SYSTEM 25, 33
Oil Filter 17	Oil Filter 25, 33
Oil Pump 17	Oil Pump 25, 33
Performance Factors, Vehicle 12	Oil Rings 24, 32
Piston Pins 16	Performance, Vehicle 20, 28
Pistons 16	Pistons 23, 31
Power Curves 13	Power Curves 21, 29
PRINCIPAL COMPONENTS 14	PRINCIPAL COMPONENTS 22, 30
Radiator 17	Radiator 25, 33
Radiator Cap 17	Radiator Cap 25, 33
Radiator Hose 17	Rings, Compression 23, 31
Rings, Compression 15-16	Spark Plugs 26, 34
Rings, Oil Control 16	Starting Motor 26, 34
Spark Plug 18	Thermostat 25, 33
Starting Motor 18	Vacuum Advance 26, 34
Thermostat 17	Valve Spring Dampers 23, 31
Vacuum Advance 18	Valve Springs 23, 31
Valve Spring Dampers 15	Valve Timing 23, 31
Valve Springs 15	Valve Train 22, 30
Valve Timing 15	Valves 23, 31
Valve Train 15	Voltage and Current Regulator 26, 34
Valves 15	Water Pump 25, 33
Voltage and Current Regulator 18	Engine Identification (Gen) 4
Water Pump 17	Engine Identification (Corvette) 6
ENGINE, 327 CU IN V-8 (Power Tr) 19-26	ENGINES, CORVETTE (Corvette) 10-18
409 CU IN V-8 (Power Tr) 27-34	Equipment, Optional (Corvette) 5
Air Cleaner 24, 32	Equipment, Regular (Corvette) 4
Battery 26, 34	Equipment, Regular Ext-Int (Gen) 5-6

INDEX

1962 CHEVROLET PASSENGER CAR AND CORVETTE Cont'd.

F

Four-Speed Transmission (Power Tr) 37
 Four-Speed Transmission (Corvette) 19
FRAME (Chassis) 2
 Frame (Corvette) 6
FRONT SUSPENSION (Chassis) 3, 4
 Fuses and Circuit Breakers (Chassis) 11

G H

Glass, Body (Body) 11
 Glass, Body (Corvette) 6
 Headlights (Chassis) 11
 Heavy-Duty Chassis (Corvette) 8

I

Identification, Serial Numbers and (Gen) 4
 Identification, Serial Numbers and (Corvette) 6
 Instrument Panel Lighting (Chassis) 11
 Introduction (Intro) II, III

K L

King Pins (Corvette) 6
 License Lights (Chassis) 11
 Lights, Passenger Compartment (Chassis) 11
 Limited Slip Axle (Corvette) 8

M O

Model Identification (Gen) 2, 3
 Mounts, Body (Chassis) 2
 Optional Equipment (Corvette) 5
 Options, Regular Production (Gen) 7-8
 Overdrive Transmission (Power Tr) 38

P

Paint, Exterior (Body) 2
 Parking Brake (Chassis) 9
 Parking Lights (Chassis) 11
 Planetary Gears, Powerglide (Power Tr) 40
 Police Car Equipment (Gen) 11
 Positraction (Chassis) 8
 Power Brakes (Chassis) 9
 Power Steering (Chassis) 5
POWER TEAMS (Power Tr) 2
 Power Teams (Corvette) 9
 Powerglide Transmission (Power Tr) 39
 Powerglide Transmission (Corvette) 19
 Propeller Shafts (Chassis) 10

Q R

Quadrant, Powerglide (Power Tr) 39
 Radius Rods (Corvette) 7
REAR SUSPENSION (Chassis) 6

S

Seat Padding (Body) 11
 Selector, Powerglide (Power Tr) 39
 Service Brakes (Chassis) 9
 Shift Points, Powerglide (Power Tr) 39
 Shock Absorbers, Front (Chassis) 3
 Shock Absorbers, Front (Corvette) 6
 Spherical Joints (Chassis) 3
 Springs, Front (Chassis) 4
 Springs, Front (Corvette) 6
 Springs, Rear (Chassis) 7
 Springs, Rear (Corvette) 7
 Stabilizer Bar (Chassis) 3
 Stabilizer, Front (Corvette) 7
 Stabilizer, Rear (Corvette) 7
STEERING (Chassis) 5
 Gear 5
 Linkage 5
 Power 5
 Steering (Corvette) 7
 Steering Knuckle (Chassis) 3
 Steering Knuckle (Corvette) 6
 Stop Light Switch (Chassis) 9
 Stop Lights (Chassis) 11
 Suspension (Corvette) 6, 7
SUSPENSION, FRONT (Chassis) 3
SUSPENSION, REAR (Chassis) 6

T

Tachometer (Corvette) 7
 Tail and Stop Lights (Chassis) 11
 Taxi-Cab Equipment (Gen) 10
 Three-Speed Transmission (Power Tr) 37
 Three-Speed Transmission (Corvette) 19
 Tires (Corvette) 7
TIRES, WHEELS AND (Chassis) 10
 Torque Converter, Powerglide (Power Tr) 40
 Torque Multiplication (Power Tr) 3
 Torque Multiplication (Corvette) 9
 Torque Multiplication, Powerglide (Power Tr) 40
TRANSMISSIONS (Power Tr) 36-40
 Three-Speed Synchromesh 37
 Four-Speed Synchromesh 37
 Overdrive 38
 Powerglide 39
TRANSMISSIONS (Corvette) 19
 Three-Speed Synchromesh 19
 Four-Speed Synchromesh 19
 Powerglide 19
 Trim Combinations, Ext-Int (Body) 7-9
 Trunk Capacities (Dim & Wt) 6
 Universal Joints (Chassis) 10
 Visibility Area (Body) 11

INDEX

W		W	
Weights, Vehicle	(Dim & Wt) 7-8	Wheel Bearings, Rear	(Chassis) 6
Weights, Vehicle	(Corvette) 6	Wheel Travel, Front	(Chassis) 3
Wheel Alignment, Front	(Chassis) 3	Wheel Travel, Rear	(Chassis) 6
Wheel Alignment, Front	(Corvette) 6	Wheels	(Corvette) 7
Wheel Bearings, Front	(Chassis) 3	WHEELS AND TIRES	(Chassis) 10





2

3

4



REGULAR EQUIPMENT-EXTERIOR

		ITEM	MODELS
Bright metal trims	Stainless Steel	Windshield reveal	All
		Roof drip gutter	15-16-17-1800 exc 17-1867
		Rear belt reveal	17-1867
		Roof rail reveal	17-1847, 39
		Belt reveal	17-1800
		Door upper reveal	17-1869, 35, 45
		Windshield pillar gutter	15-1600; 17-1835, 45, 69
		Roof rear drip gutter	15-1635, 45; 17-1835, 45
		Quarter window reveal	15-1637
		Rear quarter stationary window upper reveal	17-1835, 45
		Rear window reveal	11-1800 exc 15-1635, 45; 11-1235; 17-1845, 35, 67
		Rear window lower reveal extension	17-1839, 47
		Tailgate window reveal	17-1835, 45
		Body side (painted insert on 17-1800)	15-16-17-1800
	Rear cove molding		
	Rocker panel	11-12-17-1800	
	Headlight, parking light bezels		
	Tail light bezels	All	
	Radiator grille		
	Chevrolet hood nameplate molding		
	Back-up frames		
	Rear cove trim panels	17-1800	
	Rear cove accent molding	17-1800	
	Tailgate window glass molding	11-1235; 15-1635, 45; 17-1835, 45	
	Ventipane frame	15-1637; 17-1847, 39, 67	
	Series nameplates and emblems		
	Ventipane glass channel	All	
	Hub caps		
Side window glass moldings	15-1637; 17-1847, 39, 67		
Front fender ornaments	17-1800		
Simulated exhaust port	17-1839, 47, 69		
Rear license lamp			All
Hood emblem			All
Deck lid emblem			All exc station wagons
Dual windshield wipers, electric, single-speed			All
"Chevrolet" script on tailgate or deck lid			11-12-15-1600
Gasoline filler in left rear quarter panel			All
Electric rear window regulator			15-1645; 17-1845
Manual rear window regulator			11-1235; 15-1635; 17-1835
Front fender side emblems	Crest and "V" (283 V-8 identification)		15-16-1800
	Crest, "V" and crossed flags (327 V-8 identification)		
	Crest "V" and crossed flags with "409" number plate (409 V-8 identification)		

REGULAR EQUIPMENT-INTERIOR

ITEM		MODELS	
Instrument Panel	Anodized aluminum trim molding	11-12-15-1600	
	Anodized aluminum trim molding and plate, including valance area	17-1800	
	Series emblems	15-16-17-1800	
	Chrome capped control knobs	All	
	Glove compartment	Light	15-16-17-1800
		Lock	
	Chrome vent control knobs	All	
	Cigarette lighter		
	Ash tray		
	5-position ignition lock and starter switch		
	Electric clock	17-1800	
	Parking brake alarm		
	Rear window control switch	15-1645, 17-1845	
	Convertible top switch	17-1867	
Steering Wheel	Deep hub, dual solid spokes, horn bar with thumb tabs (2-tone on 17-1800)	15-16-17-1800	
	Deep hub, dual solid spokes, horn button	11-1200	
Coat hooks	All exc 17-1867		
Crank-type front ventipanes	All		
Door locking knobs - front and rear			
Dual sunshades			
Inside rear view mirror (chrome back & support on 17-1800)			
Manual interior light switch integral with headlight switch (main switch)			
Automatic interior light switch, front doors only		15-16-17-1800	
Interior Lights		Single dome, center (with switch on all wagons)	All exc 17-1847, 17-1839, 17-1867
	Dual side rail	17-1839	
	Dual rear quarter dome	17-1867, 47	
	Rear quarter dome	17-1847	
	Third seat, courtesy	15-1645, 17-1845	
Rear seat speaker grille	17-1847, 17-1867		
Aluminum front seat end panels	17-1800		
Door remote control handle, paddle-type	All exc 17-1800		
Door remote control handle, conventional-type (dual arm type 15-1600)			
Armrests, front door	All		
Armrests, rear doors or quarter panels	15-16-17-1800		
Ash tray, rear door or quarter panels	17-1847, 17-1839		
Bright Metal Moldings		Windshield, upper and side	
		Rear window, upper and side	
	Side roof rails	15-16-17-1800	
	Front door, rear door or rear quarter trim		
Luggage compartment lamp	17-1800 exc 35, 45		
Deluxe heater	All		

ORGANIZATION OF BOOK

Every effort has been made to facilitate the finding of information. The sequence followed in presenting the information is that of the G. M. Uniform Parts Classification major groupings, modified to facilitate usage by the reading majority, who are unacquainted with this classification. The title page for each section lists the subjects in the order in which they occur in that section. The title for each section, such as CHASSIS, is printed at the bottom of each page beside the page number. A detailed index is located at the back of the book.

Tabs are provided for conveniently locating basic sections such as BODY, CHASSIS, and POWER TRAINS.

VEHICLES AND EQUIPMENT SPECIFIED

The specifications are those of all standard left drive passenger and delivery cars which have been designed to be manufactured for the domestic (U.S.A.) open market. Included also are the specifications of the RPO (Regular Production Option) units which are intended for use with these vehicles. All data are for vehicles with regular equipment, except where noted as RPO.

No information is furnished concerning right drive vehicles of equipment manufactured for export, nor any vehicles or equipment built on COPO's (Central Office Production Orders) or any other special orders. Accessories released through the Parts and Accessories Department, however, are listed although specifications are not included. This publication covers all passenger cars, including the Chevy II, Corvair, and Corvette. Also covered is the Corvair Greenbrier Station Wagon.

Except where noted, all information was derived directly from official Chevrolet Engineering Department drawings, parts lists, and test reports, or was calculated from these records.

ABBREVIATIONS

The data are presented in a condensed tabular form which necessitates the use of abbreviations or symbols in some cases. See page IV.

LOCATION OR POSITION OF PARTS

When referring to the location or position of any engine part or vehicle unit, the practice throughout the automotive industry is that such reference is made from the driver seat position. Any views shown or references made, which are contrary to the above rule, are clearly labelled or explained in the text of the specifications.

DIMENSIONS

The dimensions shown are of three types:

•
Type #1. Those dimensions where very accurate fits are essential in the parts concerned, such as bearing surfaces and splines, and where dimensions usually are expressed on drawings in decimals with very close limits.

•
Type #2. Those dimensions where accuracy of fit is of less importance, as in structural members such as frame parts, I-beam axles, or in fuel tanks; also, dimensions for the purpose of identification, such as cylinder bore, or diameter of the wheel cylinder piston, where dimensions are expressed in fractions or integers with fractions and to which fairly large tolerances ($\pm 1/64$, $\pm 1/16$) are applied.

•
Type #3. Those dimensions, such as wheelbases, ground clearances, body size dimensions, and turning diameters, which are subject to large manufacturing variations.

•
In this book, the dimensions of type #1 are quoted with limits exactly as on the drawings while the dimensions of type #2 and #3 are quoted without manufacturing tolerances.

Unless specified otherwise all dimensions are in inches.

REVISIONS

Specification changes and the dates on which they occur are indicated on revised pages. A dot symbol is used in the proximity of the revised specification. The date appears at the bottom of the page. Subsequent revisions on a revised page are indicated in the same manner. To emphasize and clarify the later changes, however, symbols pertaining to previous revisions are removed.

ADDRESS INQUIRIES TO

ENGINEERING PRODUCT
INFORMATION DEPARTMENT

Room 3-312, Chevrolet
Engineering Center
Box 246 North End Station
Detroit 2, Michigan
Or Call

Jefferson 9-5000, Extension 3005 or 3006

ABBREVIATIONS AND SYMBOLS

ABBREVIATIONS

A
 AC Spark Plug Division ----- AC
 After Bottom Center ----- ABC
 After Top Center ----- ATC

B
 Barrel ----- bbl
 Before Bottom Center ----- BBC
 Before Top Center ----- BTC
 Before Top Dead Center ----- BTDC
 Bolt Circle ----- BC
 Brake Horsepower ----- BHP

C
 Candle Power ----- CP
 Cast Iron ----- CI
 Commercial ----- Comm
 Connecting ----- conn
 Central Office Production Order ----- COPO
 Cubic Inches ----- Cu. In.

D
 Daylight Opening ----- DLO
 Decalcomania ----- decal
 Double Row ----- DR

F
 Factory Optional Accessory ----- FOA

G
 Gallons Per Minute ----- GPM
 General Motors ----- GM

H
 Heavy Duty ----- HD
 Horsepower ----- HP
 Hot Rolled ----- HR

I
 Inside Diameter ----- ID

L
 Laminated Safety Plate ----- LSP
 Left Hand ----- LH
 Limited Production Option ----- LPO

N
 Not Available ----- NA
 New Departure ----- ND

O
 Outside Diameter & Overdrive ----- OD

P
 Pitch Diameter ----- PD
 Ply Rating ----- PR
 Pounds Per Square Inch ----- psi or PSI
 Powerglide ----- PG

R
 Regular Production Option ----- RPO
 Revolutions Per Mile ----- rev/mi
 Revolutions Per Minute ----- rpm

S
 Safety Solid Plate ----- SSP
 Saginaw ----- Sag
 Single Row ----- SR
 Society of Automotive Engineers ----- SAE
 Society of Fuse Engineers ----- SFE

T
 Thread ----- thd
 Turboglide ----- TG

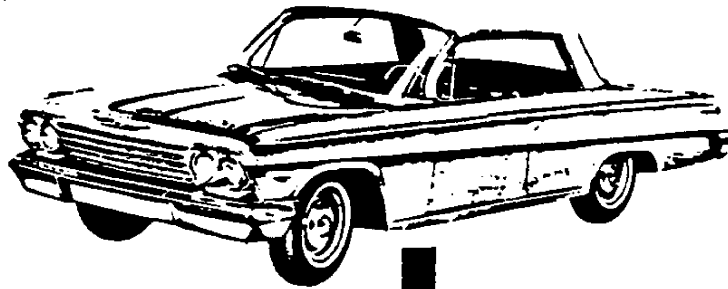
W
 Windshield ----- W/S

SYMBOLS

And ----- &
 At ----- @
 By, Times ----- x
 Center Line ----- \oplus
 Degrees ----- °
 Divided By ----- +
 Inches or Seconds ----- ''
 Minus ----- -
 Minutes ----- '
 Number or Pounds ----- #
 Per ----- /
 Per Cent ----- %
 Plus ----- +
 To (Range) ----- -
 To (Ratio) ----- :

ORIGINAL COPY

GENERAL



MODEL IDENTIFICATION	2
SERIAL NUMBERS AND IDENTIFICATION	4
REGULAR EQUIPMENT - EXTERIOR	5
REGULAR EQUIPMENT - INTERIOR	6
OPTIONAL EQUIPMENT	7
DEALER INSTALLED ACCESSORIES	9
TAXI-CAB EQUIPMENT	10
POLICE CAR EQUIPMENT	11

MODEL IDENTIFICATION

1100-1200 BISCAYNE SERIES



MODEL 11-1211 2-DOOR SEDAN, 6-PASSENGER
MODEL 11-1235 4-DOOR STATION WAGON, 6-P.
MODEL 11-1269 4-DOOR SEDAN, 6-PASSENGER



MODEL 15-1611 2-DOOR SEDAN, 6-PASSENGER
MODEL 15-1635 4-DOOR STATION WAGON, 6-PASSENGER
MODEL 15-1637 2-DOOR SPORT COUPE, 5-PASSENGER
MODEL 15-1645 4-DOOR STATION WAGON, 9-PASSENGER
MODEL 15-1669 4-DOOR SEDAN, 6-PASSENGER

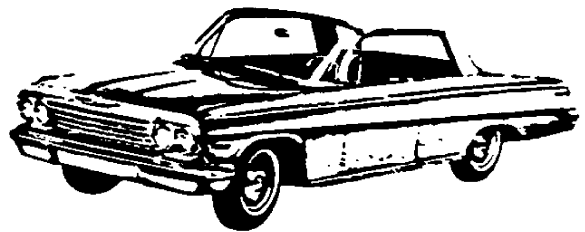
1500-1600 BEL AIR





MODEL 17-1839 4-DOOR SPORT SEDAN, 6-PASSENGER
MODEL 17-1847 2-DOOR SPORT COUPE, 5-PASSENGER
MODEL 17-1845 4-DOOR STATION WAGON, 9-PASSENGER

1700-1800 IMPALA SERIES



MODEL 17-1835 4-DOOR STATION WAGON, 6-PASSENGER
MODEL 17-1867 2-DOOR CONVERTIBLE, 5-PASSENGER
MODEL 17-1869 4-DOOR SEDAN, 6-PASSENGER



SERIAL NUMBERS AND IDENTIFICATION

ONLY BASIC DESIGNATIONS SHOWN

VEHICLE SERIAL NUMBER

6-Cylinder Example:

Model Year	Model	Assembly Plant (Tarrytown)	Unit Number (25th unit)
1962	1169	T	100025
2			

Thus: The 25th model built at Tarrytown would be serial number 21169T100025

8-Cylinder Example:

Model Year	Model	Assembly Plant (Flint)	Unit Number (26th unit)
1962	1269	F	100026
2			

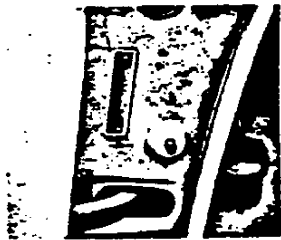
Thus: The 26th model built at Flint would be serial number 21269F100026

ASSEMBLY PLANTS

A - Atlanta	L - Los Angeles
B - Baltimore	N - Norwood
F - Flint	O - Oakland
G - Framingham	S - St. Louis
J - Janesville	T - Tarrytown
K - Kansas City	

Starting unit number ----- 100001 and up at each assembly plant regardless of series

Location ----- Stamped on plate attached to left front body hinge pillar



REAR AXLE IDENTIFICATION

Example: AA 0212

Plant and Type
Designation
AA

Production*
Month & Date
0212

Gear & Axle Buffalo

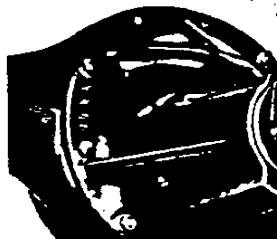
AA ----- BA ----- 3-speed transmission

AB ----- BB ----- Automatic transmission

AC ----- BC ----- Overdrive transmission

Location ----- Stamped from right side differential carrier.

* - Month: February, 02; 12th day of February, 12



ENGINE IDENTIFICATION

Example: F 0212 B

Source Designation	Production* Month & Date	Type Designation
F	0212	B(235 P.G.)

235 Cubic Inch 6-Cylinder

- A - Regular production engine, 3-speed or OD
- B - Regular engine, Powerglide

283 Cubic Inch 8-Cylinder

- C - Regular production engine, 3-speed
- CD - Regular engine, Overdrive
- D - Regular, Powerglide

327 Cubic Inch 8-Cylinder (RPO 300)

- R - Optional, 3 or 4-speed trans, 4-bbl. carb.
- S - Optional, Powerglide, 4-bbl. carb.

409 Cubic Inch 8-Cylinder (RPO 580)

- Q - Optional, 3 or 4-speed, large 4-bbl. carb. spec. cam.



6-cylinder



8-cylinder

Location:

6-cylinder engine ----- Stamped on pad on right side of cylinder block to rear of distributor

8-cylinder engine ----- Stamped on pad at front right side of cylinder block

* - Month: February, 02; 12th day of February, 12

Assembly Plant

F-Flint

T-Tonawanda

REGULAR PRODUCTION OPTIONS AND FACTORY OPTIONAL ACCESSORIES

GROUP	ITEM	NUMBER	MODELS	
Engine	Air cleaner, oil bath	216	11-15-1700	
	Alternator, 12-42 amp.	317	All	
	Alternator, 5-52 amp.	434	All	
	Alternator, 23-62 amp.	435	All	
	Carburetor, economy - 110 HP	581	1100	
	Clutch, heavy-duty	227	11-15-1700	
	327 cubic inch V-8 - 250 HP	300	12-16-1800	
	327 cubic inch V-8 high performance - 300 HP	397	12-16-1800	
	409 cubic inch V-8 - 380 HP	580	12-16-1800	
	409 cubic inch V-8 dual 4 barrel - 409 HP	587	12-16-1800	
	Fan drive, thermostatic	121	12-16-1800	
	Generator, 35 amp	338	All	
	Radiator, heavy-duty	257	All	
	Ventilation, engine positive	417	11-15-1700	
	Ventilation, special crankcase	242	All	
Transmission	Four speed	685	12-16-1800	
	Overdrive	315	All	
	Powerglide	313	All	
Chassis	Axle, limited slip (3.08, 3.36, 3.55, 3.70, 4.11, 4.56:1)	675	All	
	Axle, rear (3.08:1)	203	12-16-1800	
	Battery, heavy-duty	345	All	
	Brakes, power	412	All	
	Brakes, metallic	686	All	
	Chassis, police car	401	11-1211, 69, 35	
	Cover, wheel trim	117	All	
	Shock absorbers, front and rear	200	All exc. wagons	
	Springs, heavy-duty front	253	All	
	Springs, heavy-duty rear	593	All	
	Steering, power	324	All	
	Tires	6.70 x 15-4 pr blackwall nylon	1833	All exc. wagons
		6.70 x 15-4 pr blackwall nylon-tube	1830	All exc. wagons
		6.70 x 15-4 pr blackwall rayon	1836	All exc. wagons
		6.70 x 15-4 pr blackwall rayon-tube	1829	All exc. wagons
		6.70 x 15-4 pr b/w rayon-tube	1831	All exc. wagons
		6.70 x 15-6 pr b/w rayon (taxi & police)	288	11-1211, 69
		6.70 x 15-6 pr b/w rayon/tube (taxi & police)	1840	11-1211, 69
		7.00 x 14-4 pr whitewall rayon	1802	11-1211, 69
		7.10 x 15-4 pr blackwall rayon	1851	All exc. wagons
		7.10 x 15-4 pr blackwall nylon	1852	All exc. wagons
7.50 x 14-4 pr blackwall rayon		1801	11-1211, 69	
7.50 x 14-4 pr blackwall nylon	1807	All exc. wagons		

REGULAR PRODUCTION OPTIONS AND FACTORY OPTIONAL ACCESSORIES - Cont'd.

GROUP	ITEM	NUMBER	MODELS		
Chassis Continued	Tires	7.50 x 14-4 pr whitewall rayon	1806	All exc. wagons	
		7.50 x 14-4 pr whitewall nylon	1802	11-1211, 69	
		7.50 x 14-6 pr blackwall rayon	466	All	
		8.00 x 14-4 pr blackwall rayon	283	All exc. wagons	
		8.00 x 14-4 pr whitewall rayon	691	All	
		8.00 x 14-4 pr blackwall nylon	1814	All	
Body	Air conditioning, deluxe		110	All	
	Air conditioning, cool pack		111	All	
	Belt, seat		148	All	
	Body, police car		400	11-1211, 69, 35	
	Cushion, foam rubber front seat		335	11-1200	
	Comfort and Convenience	Inside and outside r/v mirror			All
		2-speed wiper and washer			All
		Glove box lamp		147	11-1200
		Luggage lamp			11-12-15-1600 (exc. wagons)
		Back-up lamp			11-12-15-1600
	Glass, tinted		398	All	
	Group "A"	Front grille guard		149	All
		Rear bumper guard		150	
	Lock, compartment		139	Station Wagons	
	Pad, instrument panel		427	All	
	Radio, manual		103	All	
	Radio, push-button		104	All	
	Seat, split second		259	Station Wagons	
	Seat, 6-way electric front		380	15-16-17-1800	
	Steering wheel, deluxe		348	11-1200	
	Super-sport	Instrument panel assist bar		240	17-1847, 67
		Wheel discs and spinners			
		Ornaments, emblems, and moldings			
		Bucket seats			
		4-speed transmission trim plate			
	Gadget box				
	Tachometer		331	12-16-1800	
	Taxicab		330	11-1269	
	Top, folding		470	17-1867	
	Window, electric tailgate		424	2-seat wagons	
	Windows, electric		426	15-16-17-1800	
	Wipers and washers, windshield 2-speed		333	All	
Wire wheel cover (simulated)		133	All		

DEALER INSTALLED ACCESSORIES

ITEM	MODELS
Alarm - Parking	11-12-15-1600
Antenna - Front fender radio	All
Antenna - Rear fender radio	All except wagons
Antenna - Rear fender dummy radio	All except wagons
Belt - Seat	All
Blade - Fan	All
Brake - Power	All
Cap gas tank filler locking	All
Carrier - Roof luggage	Station wagons
Clock - Instrument panel	11-12-15-1600
Compass - Auto	All
Conditioning - Air (Deluxe)	All
Conditioning - Air (Cool Pack)	All
Control - Cruise	All
Control - Headlamp automatic beam	All
Cover - Accelerator pedal	All
Cover - Front seat cushion	All
Cover - Roof luggage carrier	Station wagons
Cover - Wheel trim	All
Deflector - Rain	All except sport models
Defogging Unit - Back window	All except conv. & station wagons
Extension - Coat hook	All except convertible
Fan - Thermomodulated	12-16-1800
Guard - Bumper rear	All except wagons
Guard - Door edge	All
Guard - Radiator grille	All
Guard - Gas tank filler door	All
Lamp - Back up	11-12-15-1600
Lamp - Courtesy	All except 17-1847, 67
Lamp - Luggage compartment	All except wagons
Lamp - Portable spot	All
Lamp - Traffic hazard flasher	All
Lamp - Underhood	All
Lock - Rear compartment	All wagons
Lock - Rear door safety	All except 2-door models
Mat - Front and rear floor deluxe	All
Mat - Front floor full width	All
Mat - Rear compartment floor	Station wagons
Mirror - Outside rear view (door mount)	All
Mirror - Prismatic - Inside rear view	All
Mirror - Visor vanity	All
Molding - Body sill	15-1600
Ornament - Front fender	11-12-15-1600
Pad - Rear floor	Station wagons
Radio - Manual	All
Radio - Push button	All
Release - Rear compartment lid vacuum	All except wagons
Screen - Radiator insect	All
Screen - Rear door window	All 4-door models
Screen - Tailgate window	All wagons
Speaker - Radio auxiliary	All
Tool Kit	All
Unit - Litter container	All
Unit - Tissue dispenser	All
Unit - Tissue dispenser and litter container	All
Washer - Windshield push button	All

TAXI-CAB EQUIPMENT-RPO 330

MODEL APPLICATION:

4-Door Sedan - 1169-1269

BODY EQUIPMENT

INTERIOR TRIM

Biscayne
Standard ----- Cloth/vinyl, fawn, aqua, or red
Optional ----- All vinyl, fawn

FLOORS, FRONT AND REAR

Covering ----- Waterproof asphalt impregnated paper felt, .125 minimum thickness.
Mats ----- Black rubber (nospatter design) .125 minimum thickness.

SEAT CUSHIONS AND BACKRESTS

Construction, front and rear ----- Heavy-duty
"S" wire springs, reinforced.

DOORS, FRONT AND REAR

Jamb switches (dome lamp) ----- Furnished on all four doors.
Armrests ----- L.H. & R.H. rear doors

INSTRUMENT PANEL

Open-door red warning lamp
Location ----- Bright metal bracket under instrument panel, left of steering column.
Switch ----- All door jambs

CHASSIS EQUIPMENT

FRAME

Type ----- Heavy duty with reinforced front cross member, rear spring brackets, rear shock absorber and front upper control arm brackets

SUSPENSION

Coil Springs & Shock Absorbers, Front and Rear
Type ----- Heavy-duty

Spherical Joints, Front

Type ----- Metal lined
Rear Axle Lower Control Arm Bushings
Type ----- Heavy-duty; inner and outer metal sleeves with rubber insert.

Front Wheel Hubs and Drums

Type ----- Heavy-duty, includes heavy duty front brake drum webs.

WHEELS AND TIRES

Wheel Size ----- 15 x 5K
Tire type and size ----- Blackwall tubeless rayon, 6.70 x 15-4

LUBRICATION FITTINGS

Used at U-joints of front, intermediate, and rear propeller shaft.

REAR AXLE

Type ----- Heavy-duty, heavy-duty wheel roller bearings, parking brake cable with nylon liner, and cadmium plated rear brake flange plate mounting bolts and nuts.

POWER TRAIN EQUIPMENT

SIX-CYLINDER MODELS

Spark Plugs ----- AC 46
Distributor ----- Positive ground via wire to coil bracket
Clutch ----- 10" heavy-duty
Carburetor
Model
3-speed ----- 7013955
Powerglide ----- 7013956
Transmission 3-Speed ---- Heavy-duty; incorporates heavy-duty dutch gear and mainshaft bearings
Pulley (water pump and fan) ----- Heavy duty

POLICE CAR EQUIPMENT

MODEL APPLICATION:

2-Door Sedan - 1111-1211
 4-Door Sedan - 1169-1269
 4-Door Station Wagon - 1135-1235

BODY EQUIPMENT (RPO 400)

INTERIOR TRIM

Standard (Sedans) --- Cloth/vinyl, fawn, aqua, or red
 Optional (Sedans) ----- All vinyl; fawn
 Standard (Station wagon)- All vinyl; fawn, aqua or red

FLOORS

Covering

Front and Rear ----- Waterproof asphalt im-
 pregnated paper felt, .125 minimum thickness.
 (Front only on station wagon)

Mats

Front and Rear ----- Black rubber (no spatter
 design) .125 minimum thickness.
 (Front only on station wagon)

SEAT CUSHIONS AND BACKRESTS

Front, all models ----- Heavy duty
 "S" wire springs, reinforced.
 Rear, sedans only ----- Same as front

CHASSIS EQUIPMENT (RPO 401)

SUSPENSION

Coil Springs & Shock Absorbers, Front & Rear
 Type ----- Heavy duty
 Spherical Joints, Front
 Type ----- Metal lined

REAR AXLE

Type ----- Heavy-duty, includes
 heavy-duty wheel roller bearings, parking brake
 cable with nylon liner, and cadmium plated rear
 brake flange plate mounting bolts and nuts.

Rear Axle Lower Control Arm Bushings, Rear Sus- pension

Type ----- Heavy duty; inner and outer
 metal sleeves with rubber insert.

Front Stabilizer Bar

Regular equipment on V-8, provided on 6 cyl.
 Clutch ----- 10" with H. D. driven disc &
 clutch spring (V-8)

WHEELS AND TIRES

Wheel Size ----- 15 x 5-1/2 K ●
 Tire type and size ----- Blackwall tubeless rayon,
 6.70 x 15-4 on sedans, 6.70 x 15-6 on wagons.

METALLIC BRAKES

Material ----- Sintered Iron
 Segments Per Shoe:
 Primary - Front and Rear ----- Six
 Secondary ----- Front, 12; Rear, 10
 Lining Size:

Front:

Primary ----- 1.64 x 1.37 x .210
 Secondary ----- 1.64 x 1.37 x .330

Rear:

Primary ----- 2.0 x 1.00 x .210
 Secondary ----- 2.0 x 1.00 x .330

Wheel Cylinder Bore:

Front ----- 1.1875
 Rear ----- 1.00

Method of Attachment ----- Welded
 Gross Lining Area (sq in) ----- 145.0
 Effective Area (sq in) ----- 145.0
 Brake Effectiveness (front) ----- 58.5%

TRANSMISSION

Type ---- Heavy duty, incorporates heavy duty clutch
 gear and mainshaft bearings. (6-cylinder only)

MASTER CYLINDER

Diameter ----- .875 ●

(

(

.

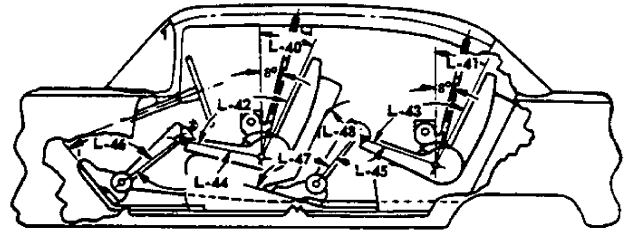
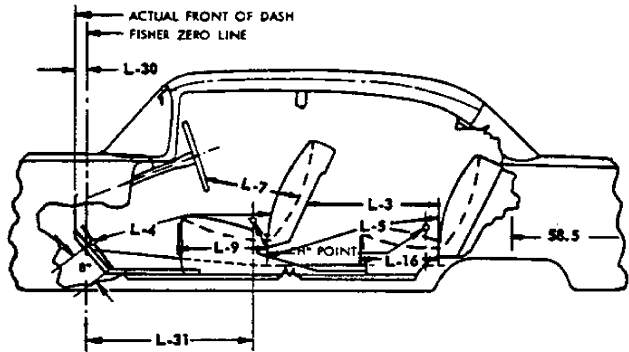
DIMENSIONS AND WEIGHTS



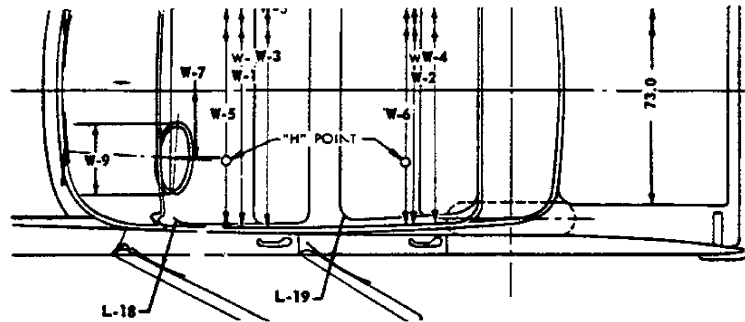
INTERIOR DIMENSIONS	2
EXTERIOR DIMENSIONS	4
STATION WAGON CARGO AND SEDAN TRUNK CAPACITIES	6
VEHICLE WEIGHTS	7

INTERIOR DIMENSIONS

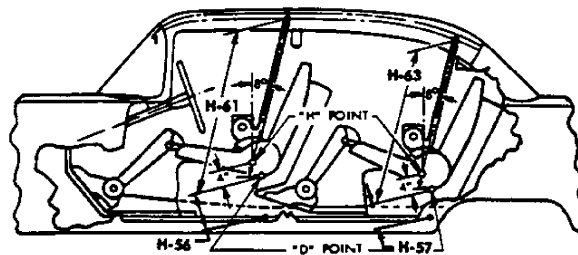
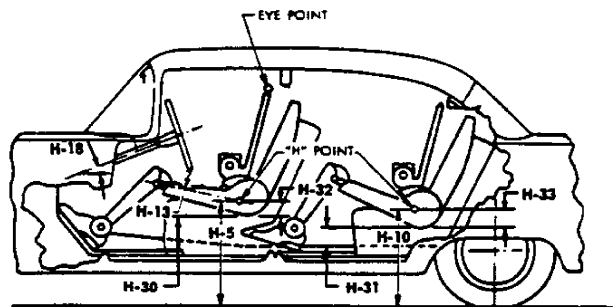
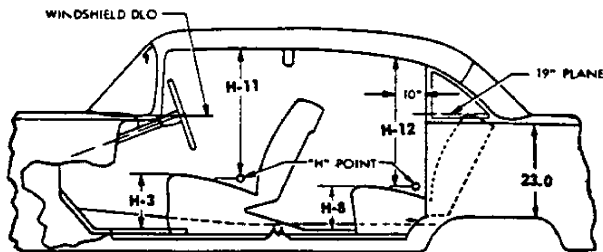
INTERIOR LENGTHS



INTERIOR WIDTHS

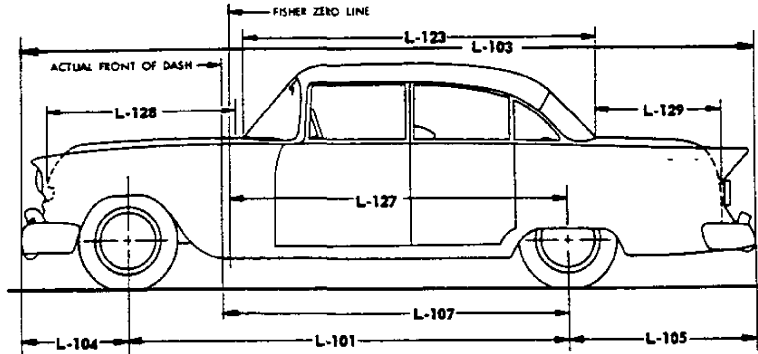


INTERIOR HEIGHTS



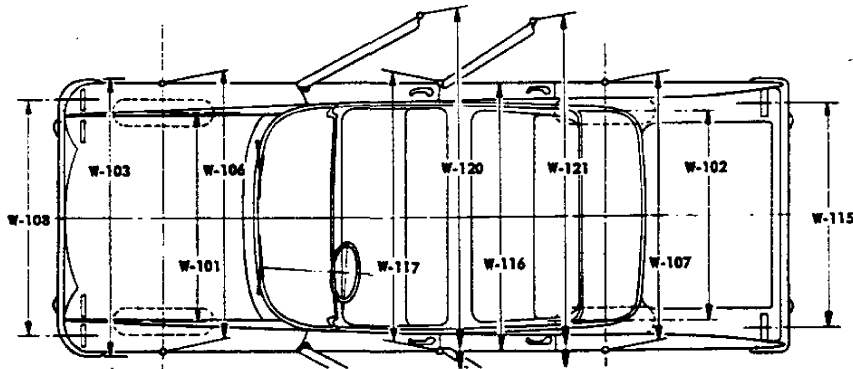
		MODELS						
		1211 1611	1269 1669 1869	1637 1847	1839	1867	1235 1635-45 1835-45	
CODE	DESCRIPTION							
L	L-3	Rear compartment room						
	L-4	Leg room - front						
	L-5	Leg room	rear	28.5	26.0	28.5	26.0	28.5
			third	45.0	44.5	45.0	44.5	45.0
	L-7	Steering wheel clearance to seat back						
	L-9	Seat depth - front						
	L-16	Seat depth	rear	18.0	18.5	18.0	18.5	
			third	-	-	-	-	17.5
	L-17	"D" point travel						
	L-18	Entrance - foot clearance - front						
	L-19	Entrance - foot clearance - rear						
	L-30	Body "O" line to actual front of dash						
	L-31	Body "O" line to "H" point - front						
	L-40	Back angle - front						
	L-41	Back angle	rear	23°	20°	23°	15.5°	22.5°
			third	-	-	-	-	17°
	L-42	Hip angle - front						
	L-43	Hip angle	rear	90.5°	91.5°	80°	91.5°	74.5°
			third	-	-	-	-	81.5°
	L-44	Knee angle - front						
	L-45	Knee angle	rear	145°	143.5°	143°	143.5°	145°
			third	107°	110°	92°	110°	91°
	L-46	Foot angle - front						
	L-47	Foot angle	rear	120°			117°	127°
			third	117°			112°	118°
	L-48	Knee clearance						
	W	W-1	Hat room - front					
		W-2	Hat room	rear	57.5			
third				55.5	54.0	54.5	52.0	58.0
W-3		Shoulder room - front						
W-4		Shoulder room	rear	57.5	58.0	57.0	58.0	51.0
			third	-	-	-	-	55.0
W-5		Hip room - front						
W-6	Hip room	rear	62.5	63.5	55.0	63.0	52.0	
		third	-	-	-	-	46.0	
W-7	Steering wheel clearance to ϕ of car							
W-9	Steering wheel outside diameter							
H	H-3	Chair height - front						
	H-5	"H" point to ground - front						
	H-8	Chair height	rear	14.0	13.0	14.0	13.5	14.0
			third	-	-	-	-	15.5
	H-10	"H" point to ground	rear	19.5	18.5	19.5	18.5	19.5
			third	-	-	-	-	22.0
	H-11	Entrance room - front						
	H-12	Entrance room - rear						
	H-13	Steering wheel thigh clearance						
	H-18	Steering column angle						
	H-30	"D" point to heel point - front						
	H-31	"D" point to heel point	rear	8.0	6.5	8.0	6.5	8.0
			third	-	-	-	-	8.0
H-32	Seat cushion deflection - front							
H-33	Seat cushion deflection	rear	4.0	4.5	4.0	4.5	4.5	
		third	-	-	-	-	4.0	
H-56	"D" point to floor - front							
H-57	"D" point to floor	rear	4.0	3.0	4.0	3.0	4.0	
		third	-	-	-	-	8.0	
H-61	Torso room - front (depressed)							
H-63	Torso room	rear (depressed)	39.0	38.5	39.0	38.5	39.0	
		third (depressed)	38.0			40.0		
		-	-	-	-	37.0		

EXTERIOR DIMENSIONS

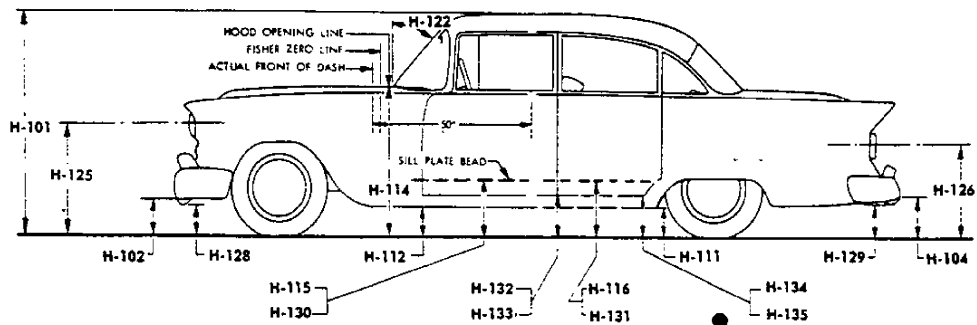


"C" SUFFIX DIMENSIONS NOT ILLUSTRATED

CODE	DESCRIPTION	MODELS					
		1211 1611	1269 1669 1869	1637 1847	1839	1867	1235 1635-45 1835-45
L-101	Wheelbase	119.0					
L-103	Overall length - bumper to bumper	209.6					
L-104	Overhang - front	32.7					
L-105	Overhang - rear	57.9					
L-107	Front of dash to \mathcal{C} of rear wheels	100.5					
L-123	Body upper structure length at \mathcal{C}	102.6	101.6	102.9	105.2	140.7	
L-127	Body "O" line to \mathcal{C} of rear wheels	100.0					
L-128	Hood length at \mathcal{C}	55.0					
L-129	Deck length at \mathcal{C}	48.0					
Lc-1	Overall length--less bumpers	206.4					

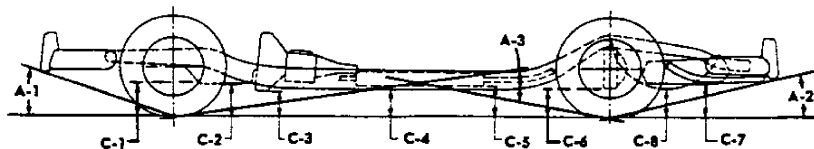


W-101	Tread - front	60.3					
W-102	Tread - rear	59.3					
W-103	Overall width (maximum)	79.0					
W-106	Front fender width at \mathcal{C} of wheel	76.4					
W-107	Rear fender width at \mathcal{C} of wheel	76.0					
W-108	Outer headlight centers width	62.4					
W-115	Taillight centers width	71.9				64.6	
W-116	Maximum overall width of body	76.0					
W-117	Maximum body width at center pillar	76.0					
W-120	Overall width, front doors open	158.1	140.6	158.1	140.6	158.1	140.6
W-121	Overall width, rear doors open	--	139.8	--	139.8	--	139.8
Wc-1	Front bumper width	78.8					
Wc-2	Rear bumper width	77.6					
Wc-3	Inner headlight centers width	49.5					
Wc-4	Opening width at beltline - front door	38.5	28.8	38.5	28.4	38.5	28.8
Wc-5	Opening width below beltline - front door	43.9	31.4	43.9	31.2	43.9	31.4
Wc-6	Opening width below beltline - rear door	--	30.8	--	30.8	--	30.8
Wc-7	Door swing out distance - front	46.2	37.4	46.2	37.4	46.2	37.4
Wc-8	Door swing out distance - rear	--	34.3	--	33.9	--	34.3
Wc-9	Windshield DLO width	61.2					
Wc-10	Rear window DLO width	61.4	59.1	58.7	53.3		



CODE	DESCRIPTION	MODELS					
		1211 1611	1269 1669 1869	1637 1847	1839	1867	1235 1635-45 1835-45
H-101	Overall height-loaded	55.5			55.0	56.0	
H-102	Front bumper bottom to ground	13.0			13.5	14.0	
H-104	Rear bumper bottom to ground	13.5			14.0	14.5	
H-111	Rocker panel to ground-rear	8.0					
H-112	Rocker panel to ground-front	8.5					
H-114	Hood at rear to ground	39.0					
H-115	Step height-front door-loaded	13.0					
H-116	Step height-rear door-loaded	--	13.0	--	13.0	--	
H-122	Windshield slope angle	57.3°			54.7°	57.3°	
H-125	Headlight centerline to ground	27.0				28.0	
H-126	Taillight centerline to ground	25.5				26.5	
H-128	Bottom of front bumper guard to ground	--	--	--	--	--	
H-129	Bottom of rear bumper guard to ground	--	--	--	--	--	
H-130	Step height-front door-unloaded	15.0					
H-131	Step height-rear door-unloaded	15.0			15.0	--	
H-132	Bottom of front door to ground-open	13.0					
H-133	Bottom of front door to ground-closed	11.5					
H-134	Bottom of rear door to ground-open	--	11.5	--	11.5	--	
H-135	Bottom of rear door to ground-closed	--	11.5	--	11.5	--	
Hc-1	Rear window slope angle	47°			61°	47°	
Hc-2	Windshield DLO vertical height	15.2					
Hc-3	Rear window DLO vertical height	13.0			15.0	14.0	
Hc-4	Front door opening height	37.0					
Hc-5	Rear door opening height	--	37.0	--	37.0	--	
Hc-7	Overall height-unloaded	57.5			57.0	58.0	
Hc-8	Trunk sill to ground-loaded	22.0				--	
Hc-9	Tailgate to ground	--	--	--	--	23.0	
Hc-10	Deck at rear window to ground	35.5					

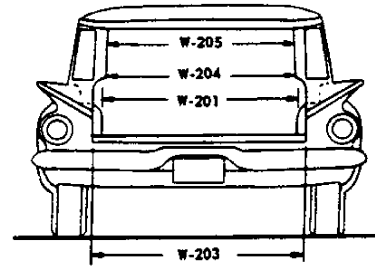
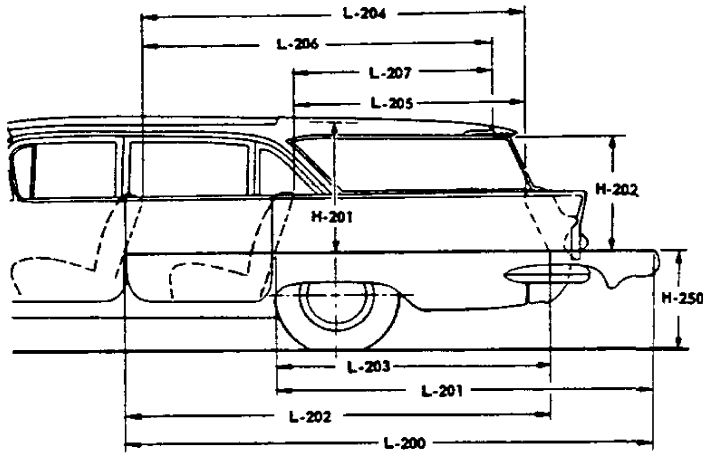
HEIGHTS



CODE	DESCRIPTION	MODELS					
		1211 1611	1269 1669 1869	1637 1847	1839	1867	1235 1635-45 1835-45
A-1	Angle of approach	27°					
A-2	Angle of departure	13°					
A-3	Ramp breakover angle	11°					
C-1	Front suspension to ground	7.5					
C-2	Oil pan to ground	7.0					
C-3	Flywheel housing to ground	7.5					
C-4	Frame to ground	7.5					
C-5	Exhaust system to ground	6.5					
C-6	Rear axle to ground	7.5					
C-7	Fuel tank to ground	8.0					
C-8	Tire well to ground	--	--	--	--	--	
C-9	Minimum ground clearance	6.5					

† 54.5 on 1847

STATION WAGON CARGO AND SEDAN TRUNK CAPACITIES



CARGO DIMENSIONS

CODE	DESCRIPTION	MODELS				
		1235	1635	1645	1835	1845
L-200	Maximum cargo length - front seat			118.5		
L-201	Maximum cargo length - rear seat			84.5		
L-202	Cargo length at floor - front seat			94.0		
L-203	Cargo length at floor - second seat			60.0		
L-204	Cargo length at belt - front seat			82.5		
L-205	Cargo length at belt - second seat			47.0		
L-206	Cargo length at roof - front seat			76.5		
L-207	Cargo length at roof - second seat			39.5		
W-200	Cargo width - front (rr of frt. seat back, flr. level) †			62.0		
W-201	Cargo width - wheelhouse			46.0		
W-203	Rear opening width at floor			56.5		
W-204	Rear opening width at belt			54.5		
W-205	Maximum rear opening width above belt			54.0		
H-201	Maximum cargo height			31.5		
H-202	Rear opening height			30.5		
H-250	Tailgate to ground height			23.0		

† Not illustrated

CARGO CAPACITIES (CU. FT.)

1235	6-Passenger Wagon	Rear seat folded	97.5 (inc. 10.5 for hidden compt.)
1635		Rear seat erect	49.5
1835			
1645	9-Passenger Wagon	Rear and third seat folded	87.0 (plus 5.7 for hidden compt.)
1845		Rear seat erect and third seat folded	49.5
		Rear and third seat erect	5.6

TRUNK CAPACITIES (CU. FT.)

Model	Overall		Standard Luggage
Sedans and Coupes	29.7		19.0
Convertibles	Top up	29.7	19.0
	Top down	28.2	

VEHICLE WEIGHTS

1100-1200 BISCAYNE SERIES

Model	VEHICLE TYPE Description	SHIPPING WEIGHT			CURB WEIGHT			DESIGN WEIGHT		
		Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
1111	2-Door Sedan 6-cylinder	1855	1550	3405	1880	1685	3565	2100	2310	4310
1111P		1935	1550	3515	1960	1715	3675	2185	2240	4425
1211	2-Door Sedan 8-cylinder	1840	1650	3400	1865	1695	3560	2095	2215	4310
1211P		1920	1590	3510	1950	1720	3670	2175	2245	4420
1135	4-Door Station Wagon 6-cylinder	1800	2045	3845	1810	2190	4000	2035	2715	4750
1135P		1875	2075	3950	1885	2220	4105	2110	2745	4855
1235	4-Door Station Wagon 8-cylinder	1785	2055	3840	1790	2205	3995	2015	2730	4745
1235P		1860	2085	3945	1870	2230	4100	2095	2755	4850
1169	4-Door Sedan 6-cylinder	1880	1600	3480	1900	1735	3635	2125	2260	4385
1169P		1960	1625	3590	1985	1765	3750	2210	2290	4500
1269	4-Door Sedan 8-cylinder	1865	1610	3475	1890	1740	3630	2115	2270	4385
1269P		1945	1640	3585	1970	1775	3745	2195	2300	4495

1500-1600 BEL AIR SERIES

1511	2-Door Sedan 6-cylinder	1860	1550	3410	1880	1685	3565	2105	2210	4315
1511P		1935	1580	3515	1960	1710	3670	2185	2235	4420
1611	2-Door Sedan 8-cylinder	1845	1560	3405	1870	1690	3560	2095	2315	4310
1611P		1925	1585	3510	1950	1720	3670	2175	2245	4420
1535	4-Door Station Wagon 6-cylinder	1800	2045	3845	1805	2195	4000	2035	2715	4750
1535P		1880	2070	3950	1885	2220	4105	2110	2745	4855
1635	4-Door Station Wagon 8-cylinder	1780	2060	3840	1790	2210	4000	2015	2735	4750
1635P		1860	2090	3950	1870	2235	4105	2095	2760	4855
1537	2-Door Sport Coupe 6-cylinder	1875	1570	3445	1900	1700	3600	2175	2175	4350
1537P		1955	1595	3550	1975	1730	3705	2255	2200	4455
1637	2-Door Sport Coupe 8-cylinder	1865	1575	3440	1885	1710	3595	2160	2185	4345
1637P		1940	1605	3545	1965	1740	3705	2245	2210	4455
1545	4-Door Station Wagon 6-cylinder*	1810	2085	3895	1820	2230	4050	2075	3175	5250
1545P		1885	2115	4000	1895	2260	4155	2155	3200	5355
1645	4-Door Station Wagon 8-cylinder*	1795	2095	3890	1805	2240	4045	2060	3185	5245
1645P		1870	2125	3995	1880	2270	4150	2140	3210	5350
1569	4-Door Sedan 6-cylinder	1880	1600	3480	1905	1735	3640	2130	2260	4390
1569P		1955	1630	3585	1985	1760	3745	2205	2290	4495
1669	4-Door Sedan 8-cylinder	1865	1610	3475	1890	1745	3635	2115	2270	4465
1669P		1945	1635	3580	1970	1770	3740	2195	2295	4490

VEHICLE WEIGHTS -Cont'd.

1700-1800 IMPALA SERIES

VEHICLE TYPE		SHIPPING WEIGHT			CURB WEIGHT			DESIGN WEIGHT		
Model	Description	Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
1735	4-Door Station Wagon 6-cylinder	1810	2060	3870	1820	2205	4025	2040	2730	4770
1735P		1890	2085	3975	1900	2230	4130	2125	2755	4880
1835	4-Door Station Wagon 8-cylinder	1790	2075	3865	1800	2215	4015	2030	2745	4775
1835P		1875	2100	3975	1885	2245	4130	2110	2770	4880
1739	4-Door Sport Sedan 6-cylinder	1915	1625	3540	1945	1755	3700	2170	2280	4450
1739P		1995	1650	3645	2020	1785	3805	2245	2310	4555
1839	4-Door Sport Sedan 8-cylinder	1890	1645	3535	1920	1775	3695	2145	2400	4445
1839P		1970	1670	3640	1995	1805	3800	2220	2330	4550
1745	4-Door Station Wagon 6-cylinder*	1820	2105	3925	1830	2250	4080	2090	3190	5280
1745P		1900	2130	4030	1910	2275	4185	2165	3220	5385
1845	4-Door Station Wagon 8-cylinder*	1810	2110	3920	1815	2260	4075	2075	3200	5275
1845P		1885	2140	4025	1895	2285	4180	2150	3230	5380
1747	2-Door Sport Coupe 6-cylinder	1885	1570	3455	1910	1705	3615	2185	2180	4365
1747P		1960	1600	3560	1985	1735	3720	2265	2205	4470
1847	2-Door Sport Coupe 8-cylinder	1865	1585	3450	1890	1720	3610	2165	2195	4360
1847P		1945	1615	3560	1970	1745	3715	2245	2220	4465
1767	2-Door Convertible 6-cylinder	1925	1640	3565	1950	1770	3720	2225	2245	4470
1767P		2005	1665	3670	2025	1800	3825	2305	2270	4575
1867	2-Door Convertible 8-cylinder	1920	1640	3560	1940	1775	3715	2215	2250	4465
1867P		1995	1665	3660	2020	1800	3820	2295	2275	4570
1769	4-Door Sedan 6-cylinder	1895	1615	3510	1925	1745	3670	2150	2270	4420
1769P		1975	1640	3615	2000	1775	3775	2225	2300	4525
1869	4-Door Sedan 8-cylinder	1880	1625	3505	1905	2760	3665	2130	2285	4415
1869P		1955	1655	3610	2985	1785	3770	2210	2310	4520

P - Powerglide
* - 9-passenger

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 and water.

CURB WEIGHT: The weight of the empty vehicle ready to drive. It is the shipping weight plus the weights of gasoline and water. For the weight of gasoline add 118 pounds to station wagons, and 121 pounds to all others. For the weight of water add 38 pounds to the 6-cylinder models, 39 pounds to the 283 and the 327 V-8 models, and 45 pounds to the 409 V-8 models.

DESIGN WEIGHT: The curb weight of the basic vehicle plus 150 pounds for each passenger. (5-passengers, 2 front, 3 rear)

Example:

$$\text{Model 1169 (5-passengers)} \text{----- } 3630 + 750 = 4380$$

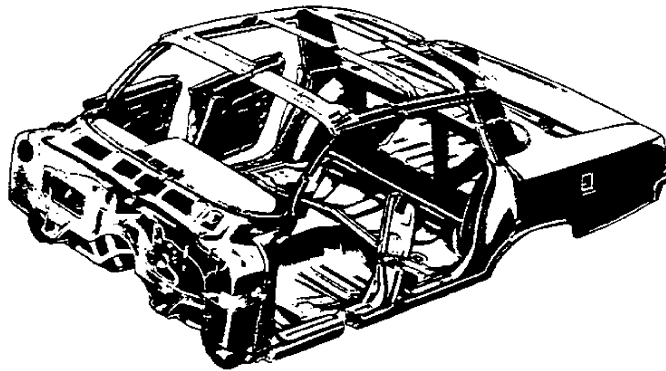
PERFORMANCE WEIGHT: The curb weight of the lowest priced 4-door sedan with regular equipment plus 600 pounds for 4-passengers.

Example:

$$\text{Model 1169} \text{----- } 3630 + 600 = 4230$$

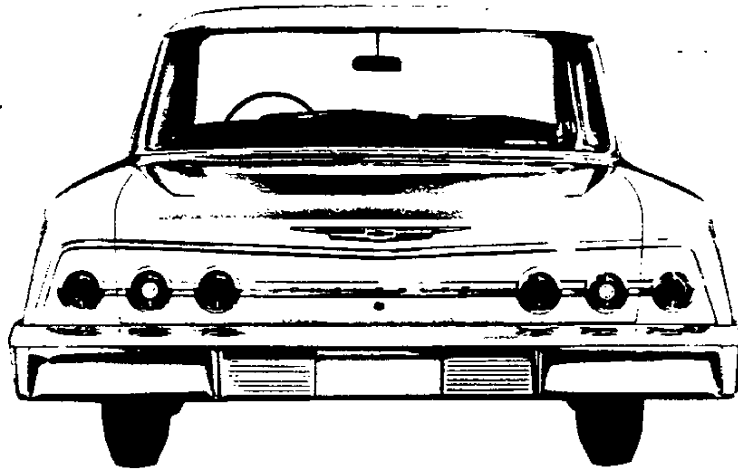
‡ Based on passenger weight distribution for number of passengers in front and rear. For total loaded weight, add 150 pounds for each passenger to the designated passenger carrying capacity for the particular vehicle.

BODY



EXTERIOR PAINT	2
EXTERIOR - INTERIOR COLOR COMBINATIONS	3
INTERIOR TRIM DISTRIBUTION	7
BODY CONSTRUCTION	10
BODY GLASS	11

EXTERIOR PAINT PROCESS



NINE STEP FINISHING PROCESS

1. **Rustproofing . . .** The bare steel is thoroughly treated with chemicals that clean the metal and give it a corrosion-resisting surface. This chemical treatment also etches the metal which improves paint adhesion.
2. **Sheet Metal Primer . . .** 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° F for 30 minutes. After baking, a coat of sealer is applied to all surfaces requiring a subsequent coat of lacquer.
3. **Body Primer . . .** Specially formulated corrosion resistant primers are used for all areas 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.
4. **Primer-Surfacer Coat . . .** A primer-surfacer coat is applied to all outside surfaces of the body requiring lacquer and then oven baked a minimum of 45 minutes at 285° F.
5. **Sanding . . .** Power wet-sanding followed by hand sanding is done on all surfaces requiring lacquer. After sanding, surface is inspected and additional spot sanding is done to assure an absolutely smooth surface as a base for the lacquer.
6. **Lacquering . . .** Many coats of acrylic lacquer are now sprayed on the surfaces to build up a finish of the required thickness for each color.
7. **Final Baking . . .** To assure a durable, hard, high luster finish the lacquer is now baked 30 minutes at 235° F.
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. **Polishing . . .** Machine buffing with special pastes to provide both a high luster and a glassy smooth surface.
- 9a. **Paint Repair . . .** Any slight mars, nicks, or scratches that might occur during final assembly are factory-repaired and corrected before shipping.

EXTERIOR-INTERIOR COLOR COMBINATIONS

1100-1200 BISCAYNE SERIES

Exterior Colors and RPO Numbers		Interior Trim Colors and RPO Numbers					
		Models 11-1211, 11-1269			Model 11-1235		
		Fawn 860	Aqua 852	Red 876	Fawn 861	Aqua 855	Red 877
900	Tuxedo Black	X	X	X	X	X	X
903	Surf Green	X			X		
905	Laurel Green	X			X		
912	Silver Blue	X			X		
914	Nassau Blue	X			X		
917	Twilight Turquoise		X			X	
918	Twilight Blue		X			X	
920	Autumn Gold	X		X	X		X
923	Roman Red	X		X	X		X
925	Coronna Cream	X			X		
936	Ermine White	X	X	X	X	X	X
938	Adobe Beige	X		X	X		X
940	Satin Silver			X			X
948	Honduras Maroon	X			X		
950	Ermine White/Tuxedo Black	X	X	X	X	X	X
953	Ermine White/Surf Green	X			X		
955	Surf Green/Laurel Green	X			X		
959	Ermine White/Silver Blue	X			X		
962	Silver Blue/Nassau Blue	X			X		
963	Ermine White/Twilight Blue		X			X	
965	Twilight Turquoise/Twilight Blue		X			X	
970	Adobe Beige/Autumn Gold	X		X	X		X
973	Ermine White/Roman Red	X		X	X		X
984	Ermine White/Satin Silver			X			X

Wheels are lower body color (black with optional wheel disk and whitewall tire combination).

EXTERIOR - INTERIOR COLOR COMBINATIONS - Cont'd.

1500-1600 BEL AIR SERIES

Exterior Colors and RPO Numbers		Interior Trim Colors and RPO Numbers				
		Models 15-1611, 15-1669, 15-1637, 15-1635, 15-1645				
		Fawn	Aqua	Red	Blue	Green
		863	850	872	839	823
900	Tuxedo Black	X	X	X	X	X
903	Surf Green					X
905	Laurel Green					X
912	Silver Blue				X	
914	Nassau Blue				X	
917	Twilight Turquoise		X			
918	Twilight Blue		X			
920	Autumn Gold	X		X		
923	Roman Red	X		X		
925	Coronna Cream	X				
936	Ermine White	X	X	X	X	X
938	Adobe Beige	X		X		
940	Satin Silver			X	X	
948	Honduras Maroon	X				
950	Ermine White/Tuxedo Black	X	X	X	X	X
953	Ermine White/Surf Green					X
955	Surf Green/Laurel Green					X
959	Ermine White/Silver Blue				X	
962	Silver Blue/Nassau Blue				X	
963	Ermine White/Twilight Blue		X			
965	Twilight Turquoise/Twilight Blue		X			
970	Adobe Beige/Autumn Gold	X		X		
973	Ermine White/Roman Red	X		X		
984	Ermine White/Satin Silver			X	X	

Wheels are lower body color (black with optional wheel disk and whitewall tire combination).

1700-1800 IMPALA SERIES
(EXCEPT CONVERTIBLE)

Exterior Colors and RPO Numbers		Interior Trim Colors and RPO Numbers						
		Models 17-1869, 17-1847, 17-1839, 17-1835, 17-1845						
		Fawn	Aqua	Red	Blue	Green	Gold	Black
		866	853	874	842	826	892	
		867 *	854 *	875 *	843 *	827 *	891 *	812 *
900	Tuxedo Black	X (a)	X (a)	X (d)	X (a)	X (a)	X (a)	X (a)
903	Surf Green					X (a)		
905	Laurel Green					X (a)		
912	Silver Blue				X (a)			
914	Nassau Blue				X (c)			
917	Twilight Turquoise		X (a)					X (b)
918	Twilight Blue		X (a)					X (b)
920	Autumn Gold	X (a)		X (d)				
923	Roman Red	X (a)		X (a)				X (b)
925	Coronna Cream	X (b)					X (a)	X (b)
936	Ermine White	X (b)	X (b)	X (d)	X (c)	X (b)	X (b)	X (b)
938	Adobe Beige	X (b)		X (d)				-
940	Satin Silver			X (d)	X (c)		-	X (b)
948	Honduras Maroon	X (a)						X (b)
927	Anniversary Gold						X (a)	
950	Ermine White/Tuxedo Black	X (a)	X (a)	X (a)	X (a)	X (a)	X (a)	X (a)
953	Ermine White/Surf Green					X (a)		
955	Surf Green/Laurel Green					X (a)		
959	Ermine White/Silver Blue				X (a)			
962	Silver Blue/Nassau Blue				X (c)			
963	Ermine White/Twilight Blue		X (a)					
965	Twilight Turquoise/Twilight Blue		X (a)					
970	Adobe Beige/Autumn Gold	X (a)		X (a)				
973	Ermine White/Roman Red	X (a)		X (a)				X (b)
984	Ermine White/Satin Silver			X (a)	X (a)			X (b)

* - Bucket seat option, 17-1847 only.

Body side molding insert area: (a) Ermine White, (b) Tuxedo Black, (c) Silver Blue, (d) Roman Red.

Wheels are lower body color (black with optional wheel disk and whitewall tire combination).

EXTERIOR - INTERIOR COLOR COMBINATIONS - Cont'd.

1700-1800 IMPALA SERIES CONVERTIBLE

Exterior Colors and RPO Numbers		Interior Trim Colors and RPO Numbers						
		Models 17-1867						
		Fawn	Aqua	Red	Blue	Green	Gold	Black
		870	847	886	836	829	894	814
		856 *	845 *	879 *	831 *	821 *	890 *	815 *
900	Tuxedo Black	X (a)	X (a)	X (d)	X (a)	X (a)	X (a)	X (a)
903	Surf Green					X (a)		
905	Laurel Green					X (a)		
912	Silver Blue				X (a)			
914	Nassau Blue				X (c)			
917	Twilight Turquoise		X (a)					X (b)
918	Twilight Blue		X (a)					X (b)
920	Autumn Gold	X (a)		X (d)				
923	Roman Red	X (a)		X (a)				X (b)
925	Coronna Cream	X (b)					X (a)	X (b)
936	Ermine White	X (b)	X (b)	X (d)	X (c)	X (b)	X (b)	X (b)
938	Adobe Beige	X (b)		X (d)				
940	Satin Silver			X (d)	X (c)			X (b)
948	Honduras Maroon	X (a)						X (b)
927	Anniversary Gold						X (a)	

Exterior Colors and RPO Numbers		Folding Top Colors and RPO Numbers			
		Models 17-1867			
		White	Black	Cream	Blue
		Reg. Prod.	470A	470B	470C
900	Tuxedo Black	X	X	X	
903	Surf Green	X	X		
905	Laurel Green	X	X		
912	Silver Blue	X	X		X
914	Nassau Blue	X	X		X
917	Twilight Turquoise	X	X		
918	Twilight Blue	X	X		
920	Autumn Gold	X	X		
923	Roman Red	X	X		
925	Coronna Cream	X	X	X	
936	Ermine White	X	X		
938	Adobe Beige	X	X		
940	Satin Silver	X	X		
948	Honduras Maroon	X	X		
927	Anniversary Gold	X	X		

* - Bucket seat option.

Body side molding insert area: (a) Ermine White, (b) Tuxedo Black, (c) Silver Blue, (d) Roman Red.

Wheels are body color (black with optional wheel disk and whitewall tire combination).

INTERIOR TRIM DISTRIBUTION

1100-1200 BISCAYNE SERIES

AREA		MATERIAL	TRIM COMBINATIONS			
			Fawn	Aqua	Red	
Seats	Cushion and Backrest	Pattern Cloth *	Medium Fawn	Medium Aqua	Medium Red	
		Pattern Vinyl **				
	Backrest Top Bolster	Pattern Vinyl *	Dk. Fawn	Dk. Aqua	Dk. Red	
		Leather Grain Vinyl**				
	Cushion and Backrest Facings	Leather Grain Vinyl*	Md. Fawn	Md. Aqua	Md. Red	
		Leather Grain Vinyl**				
	Front Seat	Upper	Pattern Vinyl *	Md. Fawn	Md. Aqua	Md. Red
Leather Grain Vinyl**						
Back	Balance	Leather Grain Vinyl	Md. Fawn	Md. Aqua	Md. Red	
		Pattern Vinyl				
Side Walls	Upper	Leather Grain Vinyl	Medium Fawn	Medium Aqua	Medium Red	
	Balance					
	Armrest	Upper				
		Base				Plastic
	Center Pillar	Upper				Vinyl-Painted Metal
		Lower				Leather Grain Vinyl
	Door Windhose	Woven Fabric				
Load Area **	Vinyl-Painted Metal					
Door Lock Buttons	Plastic	Dark Fawn	Dark Aqua	Dark Red		
Headlining		Cloth *	Light Fawn	Light Aqua	Light Fawn	
		Pattern Vinyl **				
Sunshades		Composition Board				
Sunshade Binding		Vinyl				
Rear Package Shelf *		Composition Board	Md. Fawn	Md. Aqua	Md. Red	
Cowl Side Kick Panels						
Windshield and Back Window Upper and Side Moldings, Qtr. Window Mldg.		Painted Metal	Dark Fawn	Dark Aqua	Medium Red	
Instrument Panel, Steering Column, Dir. Signal Hsg.						
Steering Wheel					Painted Hard Rubber			Dark Red
Floor Covering	Passenger Area	Rubber, Vinyl Spatter	Md. Fawn	Md. Aqua	Md. Red	
	Load Area, Tailgate, Fldg. Seat Back and Filler Panel **	Vinyl-Painted Metal				
Lugg. Compt. - Floor and Sides*		Painted Metal	Gray/White Spatter			
Stowage	Sides		Dk. Fawn	Dk. Aqua	Dk. Red	
Compt. **	Floor Mat		Rubber	Black		

* - Sedans only.
 ** - Station wagon only.

INTERIOR TRIM DISTRIBUTION - Cont'd.

1500-1600 BEL AIR SERIES

AREA		MATERIAL	TRIM COMBINATIONS					
			Fawn	Aqua	Red	Blue	Green	
Seats	Cushion and Backrest		Pattern Cloth	Medium Fawn	Medium Aqua	Medium Red	Medium Blue	Medium Green
	Backrest Top Bolster		Leather Grain Vinyl					
	Backrest Bolster Accents	Panels	Vinyl	Taupe	Blue	Taupe	Blue	Blue
				Copper	Green	Copper	Green	Green
		Frames, Stripes		Dk Red	Aqua	Dk Red	Aqua	Aqua
	Cushion and Backrest Side Bolsters, Facings		Leather Grain Vinyl					
	Front Seat Back	Upper	Ribbed Vinyl	Medium Fawn	Medium Aqua	Medium Red	Medium Blue	Medium Green
		Center						
		Lower						
	Upper		Leather Grain Vinyl					
Side Walls	Upper Area Accents	Panels	Painted Metal	Taupe	Blue	Taupe	Blue	Blue
				Copper	Green	Copper	Green	Green
		Frames, Stripes		Dk Red	Aqua	Dk Red	Aqua	Aqua
	Center		Leather Grain Vinyl	Dk Fawn	Dk Aqua	Dk Red	Dk Blue	Dk Green
	Lower		Pattern Vinyl	Medium Fawn	Medium Aqua	Medium Red	Medium Blue	Medium Green
	Armrest	Upper	Leather Grain Vinyl					
		Base*	Plastic	Bright				
	Center Pillar	Upper	Vinyl-Painted Metal					
		Lower	Leather Grain Vinyl					
	Door Windhose		Woven Fabric	Medium Fawn	Medium Aqua	Medium Red	Medium Blue	Medium Green
Load Area†		Leather Grain Vinyl**						
Door Lock Buttons		Plastic						
Headlining and Sunshades		Cloth††	Light Fawn	Light Aqua	Light Fawn	Light Blue	Light Green	
Sunshade Binding		Pattern Vinyl §						
Sunshade		Leather Grain Vinyl						
Rear Package Shelf		Composition Board	Md Fawn	Md Aqua	Md Red	Md Blue	Md Green	
Cowl Side Kick Panel			Dk Fawn	Dk Aqua	Dk Red	Dk Blue	Dk Green	
Windshield and Back Window Upper and Side Mldgs, Qtr. Window Mldg.		Painted Metal	Dark Fawn	Dark Aqua	Medium Red	Dark Blue	Dark Green	
Roof Rail Molding **								
Instrument Panel, Steering Column, Dir. Signal Hsg.					Dark Red			
Steering Wheel		Painted Hard Rubber						
Floor Covering	Passenger Area	Deep-Twist Carpet	Md Fawn	Md Aqua	Md Red	Md Blue	Md Green	
	Third Seat Well	Rubber						
	Load Area, Tailgate, Fldg. Seat Backs and Filler Panel ‡	Vinyl-Painted Metal	Dark Fawn	Dark Aqua	Dark Red	Dark Blue	Dark Green	
Luggage Compt.	Floor Mat	Foam Coated Cloth	Gray/White Spatter					
	Floor and Sides	Painted Metal						
Storage Compt. †	Floor Mat	Rubber	Black					
	Sides	Painted Metal	Dk Fawn	Dk Aqua	Dk Red	Dk Blue	Dk Green	

*-Sport Coupe Rear Armrests are leather-grain vinyl, built-in.

**-Sport Coupe

‡-Station Wagons

††-Sedans

§-Sport Coupe and Station Wagons.

1700-1800 IMPALA SERIES

AREA			TRIM COMBINATIONS							Black*	
			Fawn	Aqua	Red	Blue	Green	Gold			
Seats	Cushion and Backrest	Pattern Cloth							---		
	Backrest	Pattern Vinyl *							Black		
	Backrest	Cloth							---		
	Insert	Leather Grain Vinyl*									
	Cushion and Backrest Top, Side, Center Bolsters and Facings	Leather Grain Vinyl	Medium Fawn	Medium Aqua	Medium Red	Medium Blue	Medium Green	Light Gold	Black		
	Front Seat	Upper	Ribbed Vinyl								
		Center									
	Back	Lower	Leather Grain Vinyl								
	Fr. Seat Panels	End	Metal	Bright							
		Trim**		Bright							
Rear Speaker	Frame	Painted Metal	Md Fawn	Md Aqua	Md Red	Md Blue	Md Green	Lt Gold	Black		
Grille & Molding	Screen, Metal		Bright								
Side Walls	Upper Lower	Leather Grain Vinyl Ribbed Vinyl	Medium Fawn	Medium Aqua	Medium Red	Medium Blue	Medium Green	Light Gold	Black		
	Armrest	Upper	Leather Grain Vinyl								
		Base	Plastic ††	Bright							
	Center Pillar	Upper	Vinyl-Painted Metal								
		Lower	Leather Grain Vinyl								
	Door Windhose	Woven Fabric	Medium Fawn	Medium Aqua	Medium Red	Medium Blue	Medium Green	Light Gold	Black		
	Load Area \$\$	Leather Grain Vinyl									
Door Lock Buttons	Plastic								Black		
Headlining	Pattern Vinyl								Ivory		
Sunshades	Leather Grain Vinyl	Light Fawn	Light Aqua	Light Fawn	Light Blue	Light Green	Pale Gold		Black		
	Pattern Vinyl								Ivory		
Sunshade Binding	Leather Grain Vinyl								Black		
Rear Package Shelf		Md Fawn	Md Aqua	Md Red	Md Blue	Md Green	Lt Gold		Ivory		
Cowl Side Kick Panel	Composition Board	Dark Fawn	Dark Aqua	Dr Red	Dark Blue	Dark Green	Md.Dk.		Black		
Windshield and Back Window Upper and Side Moldings	Painted Metal	Fawn	Aqua	Md Red	Blue	Green	Lt Gold				
Roof Rail Moldings**	Metal	Bright **									
Instrument Panel, Steering Column, Dir. Signal Hsg.	Painted Metal	Dark Fawn	Dark Aqua	Dark Red	Dark Blue	Dark Green	Md-Dk Gold				
Steering Wheel	Upper and Lower	Md Fawn	Md Aqua	Md Red	Md Blue	Md Green	Lt Gold		Black		
Floor Covering	Sides and Hub	Painted Hard Rubber	Dk Fawn	Dk Aqua	Dk Red	Dk Blue	Dk Green	Md-Dk Gold			
	Passenger Area	Deep-Twist Carpet	Medium Fawn	Medium Aqua	Medium Red	Medium Blue	Medium Green	Dark Gold			
	Third Seat Well	Rubber									
Luggage Compt.	Floor and Shelf Mat	Foam-Coated Cloth									
	Floor and Sides	Painted Metal	Gray/White Spatter								
Stowage	Floor Mat	Rubber	Black								
Compt \$\$	Sides	Painted Metal	Dk Fawn	Dk Aqua	Dk Red	Dk Blue	Dk Green	Md-Dk			
Folding Top Boot v	Leather Grain Vinyl	Md Fawn	Md Aqua	Md Red	Md Blue	Md Green	Lt Gold	Black			

- * - Sport Coupe bucket seat and Convertible interior
- ** - Bucket seat interior only.
- † - Sport Coupe and Convertible.
- †† - Sport Coupe and Conv. rear armrests are leather-grain vinyl, built-in.
- \$\$ - Station wagons
- v - Convertible
- **v - Sport Coupe, Sport Sedan.

BODY CONSTRUCTION

GENERAL

Type ----- Unisteel, with cowl, roof, underbody and body panels welded to form body shell. Doors, front and rear lids are of double-panel construction and hinge assembled to body. Separate frame and bolt-on front end sheet metal.

DOORS AND LOCKS

Door construction ----- Double steel panels, hinged at front.
Door handles ----- Push-button with rotary type latches. Inside push button locks on all doors.
Door ventipanes ----- Crank operated

HOOD AND TRUNK LID

Type ----- Counterbalanced, with spring loaded toggle action hinges on rear of hood and boxed hinges on trunk lid with torsion rod.
Hood release ----- External

VENTILATION

High level with double wall plenum chamber.

SEAT CONSTRUCTION

Type ----- Front seat cushion - Biscayne models, 3/4 polyurethane; 1" on Bel-Air and 1835, 45; 1-3/4 on all other 1800 models. Rear seat cushion - Biscayne models, jute and cotton; Bel-Air 3/4 polyurethane, 1-3/4 on Impala, 3/4 on 9-passenger wagons.

WINDSHIELD WIPERS

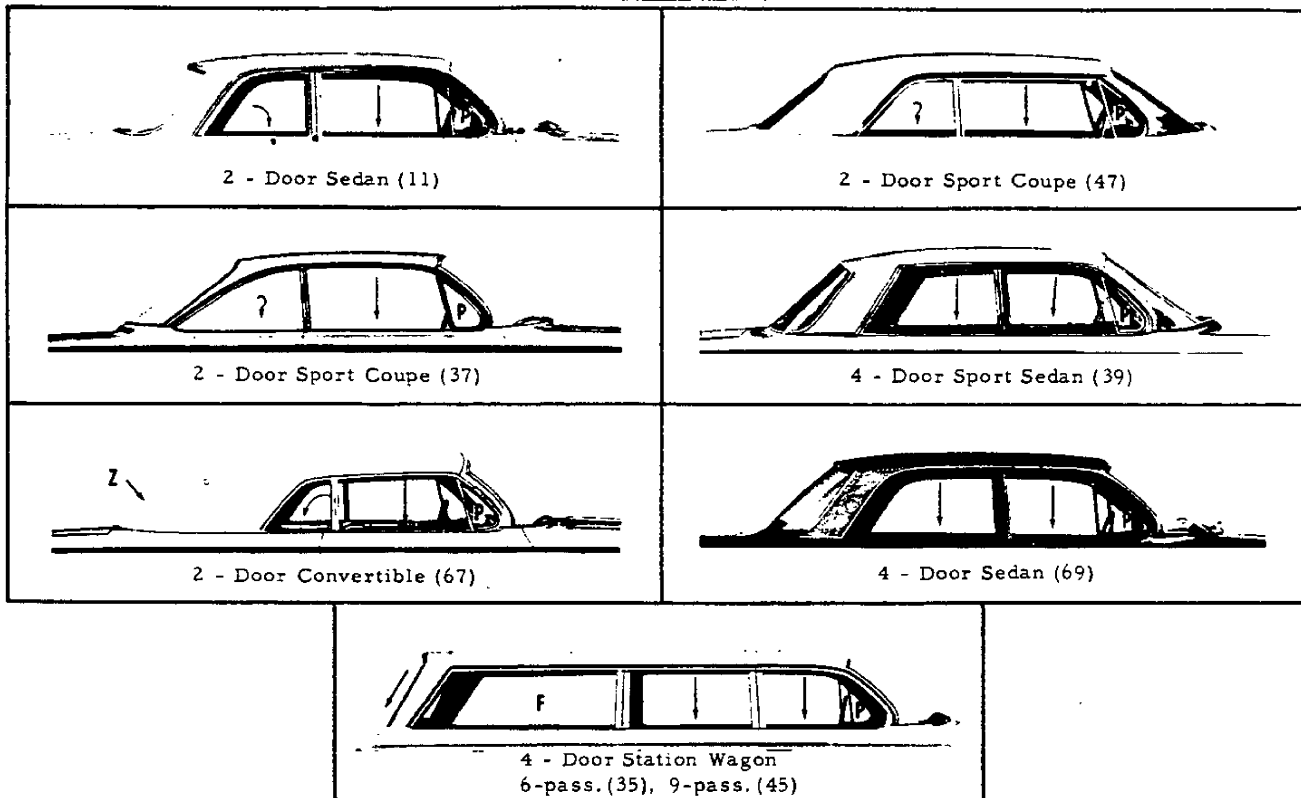
Type ----- Dual single speed electric
Linkage ----- Parallel acting

SPARE TIRE AND TOOLS

Location ----- Sedan, horizontal on center of shelf in trunk compartment; Station wagon, vertically in right hand side of cargo compartment rear of wheelhouse behind removable cover. Convertible, right side of trunk compartment rearward of wheelhouse. Tools consist of bumper jack with combination lever handle and wheel nut wrench stored under tire.

BODY GLASS

WINDOW ACTION



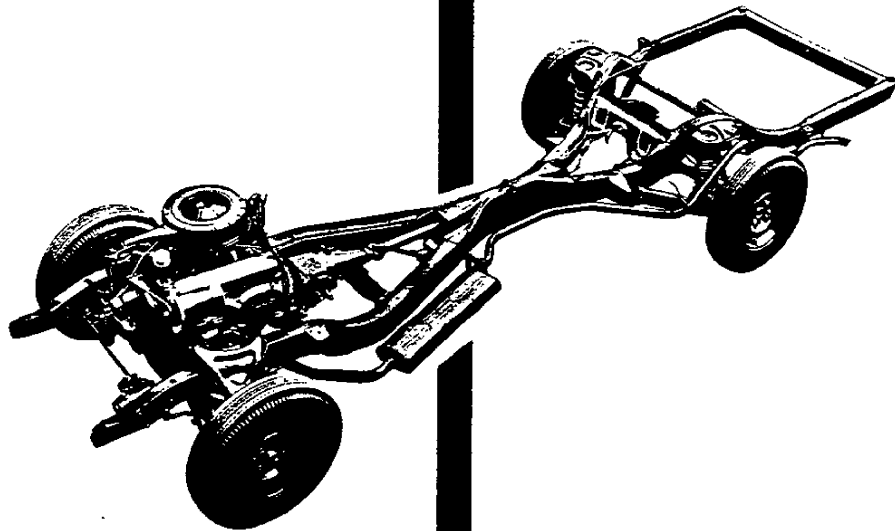
- P - Pivoting, crank vent
- F - Fixed glass
- Z - Zip out
- ? - "Monkey" action
- ↻ - Rotating

BODY GLASS TYPE AND VISIBILITY AREA

Location	69	39	11	37	47	67	35	45	
Windshield	Laminated safety plate, compound curve element								
	1600.3			1463.3			1600.3		
Front door	Ventipane	Laminated safety plate							
	Window	98.0	77.2	98.0	77.2			98.0	
	Safety solid plate								
	564.4	602.6	816.4	865.4	796.1	768.2	564.4		
Rear door window	Safety solid plate								
	655.8	659.8					820.7		
Rear quarter	Window	Safety solid plate							
	Rear side			427.4	519.0	367.8	275.0		
	Safety solid plate								
Back window	Safety solid plate						Plastic		
							1181.6		
	1277.1	1224.0	1277.1	1721.1	941.9	1103.0	898.6		
Total visibility area	4195.6	4163.9	4219.2	4783.0	3646.3	3687.7	5163.6		

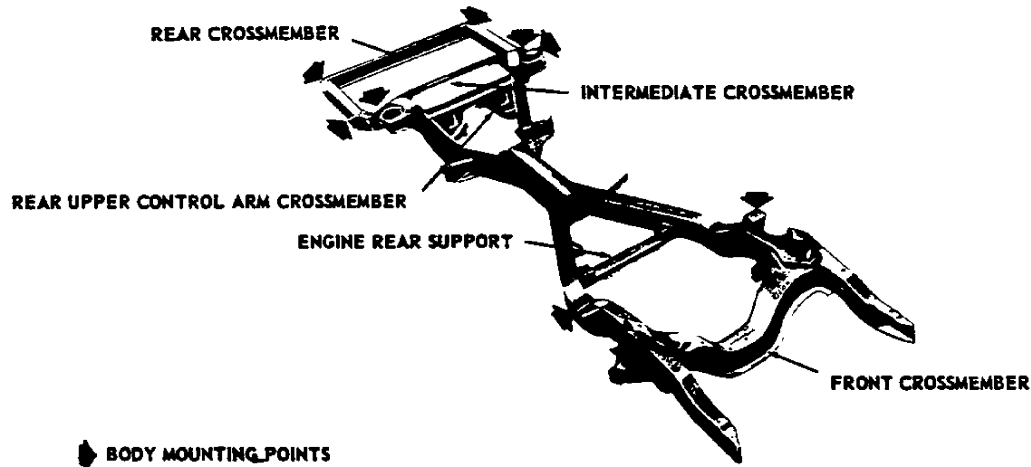


CHASSIS



FRAME	2
FRONT SUSPENSION	3
STEERING	5
REAR SUSPENSION	6
REAR AXLE	8
BRAKES	9
DRIVELINES	10
WHEELS AND TIRES	10
ELECTRICAL	11

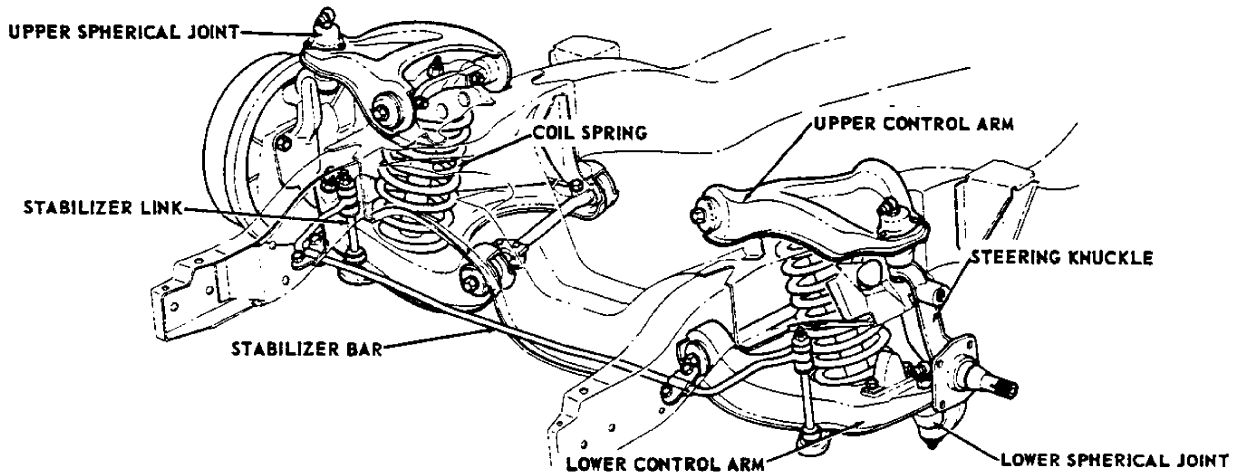
FRAME



GENERAL

Type	All welded X-Design having 4 crossmembers
Sidemember	
Section Modulus (inches ³)	1.90
Moment of Inertia (inches ⁴)	4.27
Dimensions (maximum, inches)	
Length	194.50
Width (over sidemembers at rear crossmember)	47.50
Body Mounting Points	
All except Convertible	8
Convertible Frame	
Type	Same with steel plates welded to top and bottom of sidemembers and center beam
Body Mounting Points	12

FRONT SUSPENSION



GENERAL

Make ----- Chevrolet
 Type ----- Independent, combining long and short control arms with spherical joints and coil springs.
 Provision for car leveling ----- Stabilizer bar
 Provision for brake dip control ----- Mounting angle of upper control arms.

WHEEL TRAVEL

Vertical, Loaded Conditions
 Metal to Metal ----- 3.90 up, 4.54 down
 Wheel to Spring Ratio ----- 1.87:1

SPHERICAL JOINTS

Type ----- Ball stud and socket in assembly, self adjusting for wear.
 Number ----- 1 each, upper and lower; LH & RH
 Ball Stud:
 Material ----- Hot rolled steel hardened and ground
 Ball spherical diameter:
 Upper ----- 1.304-1.308
 Lower ----- 1.246-1.250
 Bearings ----- Non-metallic; molded, phenolic impregnated fabric.
 Socket:
 Type and material:
 Upper ----- Two cup-shaped steel stampings bonded by grease-tight weld with rubber type loading ring to compensate for wear.
 Lower ----- Forged seat and stamped socket, each cup shaped, and bonded by grease tight peening.
 Lubrication ----- Through 4 high pressure fittings, one at top of each socket.

STABILIZER BAR

Type ----- Link
 Material ----- HR steel
 Diameter ----- 0.6875
 Bushing material ----- Rubber
 Application ----- All except 11 & 1500-11,-69 & 1537

WHEEL BEARINGS

Type (inner & outer) ----- Tapered roller

STEERING KNUCKLE

Type ----- Forged steel with integral brake cylinder mounting, detachable steering arms.
 Spindle Diameters:
 At inner bearing ----- 1.2490-1.2495
 At outer bearing ----- .7490-.7495
 Spindle thread size ----- 3/4 - 20 NEF-3

SHOCK ABSORBERS ●

Make ----- Delco Products
 Type ----- Direct, double acting, hydraulic
 Secured (thru coil spring) to ----- Lower control arm and front suspension crossmember.
 Piston diameter ----- 1.00
 Piston travel ----- 5.25
 Code
 Station wagons, RPO 200, RPO 580 and RPO 587 --
 ----- C1.75(43)L8/D1-82
 All others ----- C2.75(43)J8/C1.25-82
 Piston rod plating ----- Chrome

CONTROL ARM BUSHINGS

Type and number ----- Pre-loaded rubber; 8 (2 each pivot shaft, left hand and right hand).
 Material ----- Steel encased rubber
 Size:
 Upper ----- .670-.677 x 1.76 approximately
 Lower ----- .737-.744 x 2.08 approximately

FRONT WHEEL ALIGNMENT ●

@Caster (curb) ----- 0°±30'
 @Camber (curb) ----- 30'±30'
 Steering axis inclination ----- 7°11'
 Toe-in (overall, as shipped) ----- 1/16 - 3/16

@ Right and left sides equal within 0°±30'

FRONT SPRINGS FOR STANDARD ENGINES

Application	Series	1100			1200			1500				1600				1700				1800									
	Model	11	35	69	11	35	69	11	35	37	45	69	11	35	37	45	69	35	39	45	47	67	69	35	39	45	47	67	69
135 HP Engine	Manual	B	A	B				B	A	B	B	B						A	A	B	A	D	A						
	Powerglide	C	D	C				C	D	C	C	C						D	D	C	D	E	D						
170 HP Engine	Manual				A	A	A						A	A	A	B	A							A	A	B	A	D	A
	Powerglide				D	D	D						D	D	D	C	D							D	D	C	D	E	D

Application	A	B	C	D	E
Part number	3741497	3746852	3746853	3758760	3764582
Type	Right hand helix				
Material	High alloy steel				
No. of coils (active, total)	8.67, 10.11	7.67, 9.11		8.67, 10.11	
Wire dia	.630	.664		.630	.648
OD	5.19				
PD	4.432	4.466		4.432	4.450
Height	Free	17.25	15.52	15.73	17.54
	Working (inches@lb)	10.50@1855		10.50@1935	10.50@2020
Deflection rate (lb/inch)	@ Spring	275	370		275
	@ Wheel *	91	115		91

FRONT SPRINGS WITH RPO ENGINES

Application	Series	1200			1600				1800						
	Model	11	35	69	11	35	37	45	69	35	39	45	47	67	69
250 HP (RPO 300)	3-Speed														
	4-Speed	A			A			B	A	A	B	A	C	A	
	Powerglide	A			A			B	A	A	B	A	C	A	
300 HP (RPO 397)	3-Speed														
	4-Speed	A			A			B	A	A	B	A	C	A	
	Powerglide	A			A			B	A	A	B	A	C	A	
380 HP (RPO 580)	3-Speed	D			D				D						
	4-Speed	D			D				D						
409 HP (RPO 587)	3-Speed	D			D				D						
	4-Speed	D			D				D						

Application	A	B	C	D
Part Number	3758760	3746853	3764582	3752908
Type	Right hand helix			
Material	High alloy steel			
No. of Coils (Active, Total)	8.67, 10.11	7.67, 9.11		8.67, 10.11
Wire Dia.	.630	.664		.648
OD	5.062	5.130		5.098
PD	4.432	4.466		4.450
Height	Free	17.54	15.73	17.02
	Working (Inches @ lb.)	10.50 @ 1935		10.50 @ 2020
Deflection Rate (lb/in)	@ Spring	275	370	310
	@ Wheel *	91	115	100

* Ride Rate

**REAR SPRINGS FOR STANDARD ENGINES
AND RPO 300 AND RPO 397**

APPLICATION	SERIES	1100			1200			1500			1600				1700				1800										
	MODEL	11	35	69	11	35	69	11	35	37	45	69	11	35	37	45	69	35	39	45	47	67	69	35	39	45	47	67	69
135 HP Engine	Manual or Powerglide	D	C	D				D	C	B	▲	D						C	E	▲	A	D	E						
170 HP, 250 HP and 300 HP engines	Manual or Powerglide				E	C	E						E	C	A	▲	E							C	E	▲	A	D	E

APPLICATION		A	B	C	D	E
Part Number		3752910	3754513	3765137	3777133	3777136
Type		Right hand helix				
Material		High alloy steel				
No. of coils (active, total)		9.6, 10.41	7.8, 9.41	8.8, 10.41	7.8, 9.41	8.8, 10.41
Wire Dia		.583	.587	.648	.587	.583
OD		5.00				
PD		4.221	4.225	4.286	4.225	4.221
Height	Free	16.33	15.44	16.36	15.77	16.66
	Working (inches @ lb)	9.55@ 1560		9.89@ 2200	9.88@ 1560	
Deflection	@ Spring	230	265	340	265	230
Rate (lb/inch)	@ Wheel *	107	118	142	118	107

REAR SPRINGS WITH OTHER RPO ENGINES

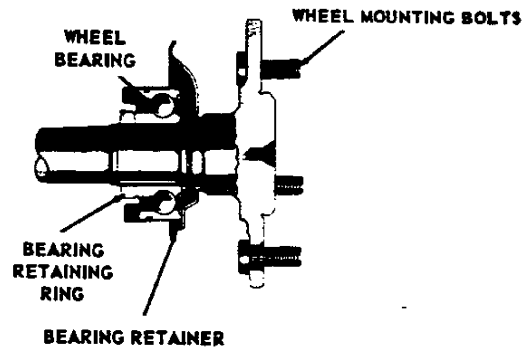
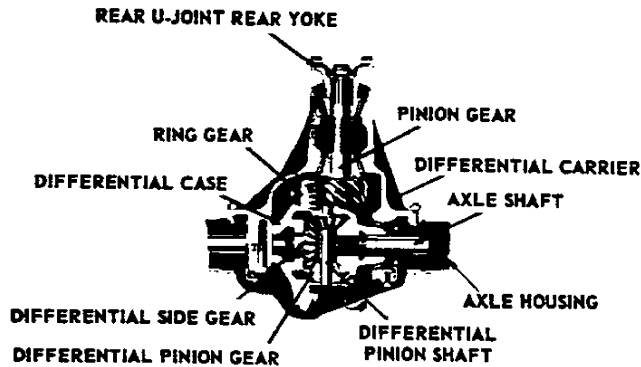
Application	Series	1200			1600			1800							
	Model	11	35	69	11	35	37	45	69	35	39	45	47	67	69
380 HP (RPO 580)	3-Speed	A	B	A	A	B			A	B	A				A
	4-Speed														
409 HP (RPO 587)	3-Speed	A	B	A	A	B			A	B	A				A
	4-Speed														

Application		A	B	C
Part Number		3777134	3777137	3813818
Type		Right hand helix		
Material		High alloy steel		
No. of Coils (Active, Total)		7.8, 9.41		
Wire Dia.		.630	.681	.630
OD		4.898	5.000	4.898
PD		4.268	4.319	4.268
Height	Free	15.03	15.40	14.35
	Working (Inches @ lb.)	9.88 @ 1750		9.88 @ 1520
Deflection	@ Spring	340	450	340
Rate (lb/in)	@ Wheel *	142	180	142

▲ Rear spring is 3777137, specifications for which are shown under REAR SPRINGS WITH OTHER RPO ENGINES ●

* Ride Rate ●

REAR AXLE



GENERAL

Make ----- Chevrolet
 Type ----- Semi-floating, hypoid gear, Hotchkiss drive type, with overhung drive pinion supported by two tapered roller bearings
 Rating ----- 3000 lb
 Four-Link Suspension Drive:
 Drive and torque taken through --- All control arms
 Lateral forces taken through --- Lateral control bar
 Housing Type ----- Pressed steel banjo, two piece welded construction with axle housing cover welded in place
 Lubricant Capacity (pints) ----- 4
 Lubricant Recommended ----- SAE 90 passenger car hypoid lubricant or "Multi-Purpose" lubricant

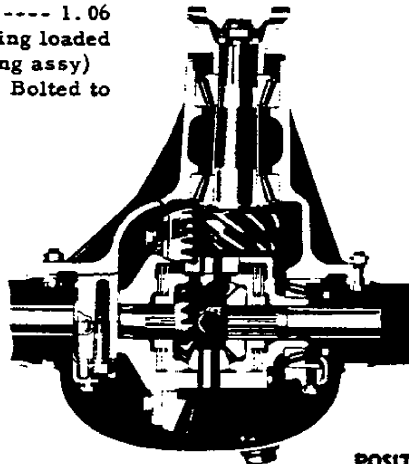
DIFFERENTIAL

Type ----- Two pinion with Armasteel housing
 Drive Pinion Offset (ϕ differential pinion to ϕ drive pinion, vertically) ----- 1.5
 Hypoid Drive Ring Gear PD (and OD) ----- 8.375

AXLE RATIO	RING & PINION	SPEEDO-METER GEAR
3.36:1	11-37	20
3.55:1	9-32	20 or 21

AXLE SHAFT

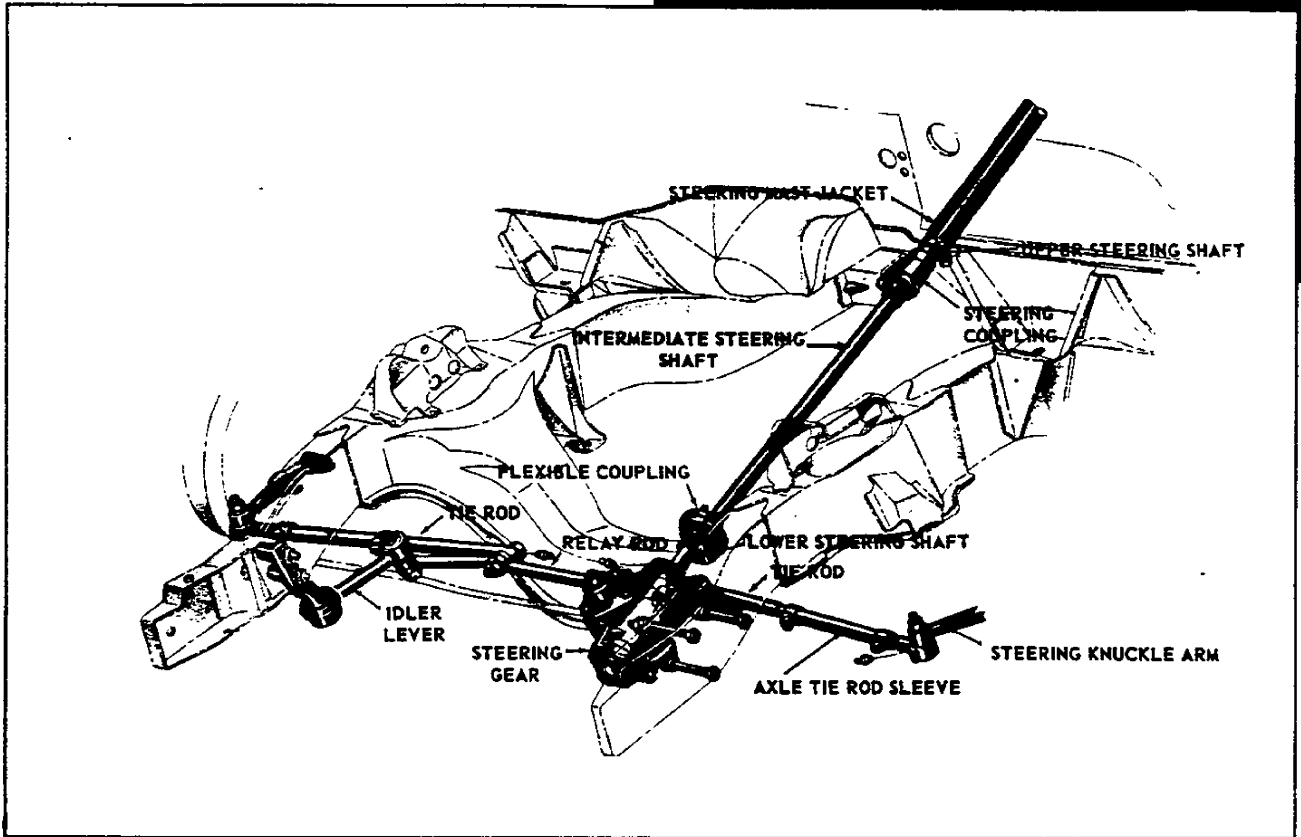
Type and Material ----- Forged and hardened steel with wheel drive flange forged integral with shaft
 Minimum Diameter ----- 1.06
 Oil Seal ----- Steel encased spring loaded synthetic rubber (part of rear wheel bearing assy)
 Hub Attachment ----- Bolted to integrally forged wheel drive flange



POSITRACTION

For availability, see POWER TRAINS Section

STEERING



STEERING GEAR

Make	Saginaw
Type	Semi-reversible recirculating ball
Gear Ratio	24:1
Overall Ratio (Approx.)	28:1
Steering Mainshaft Diameter .....	.750
Steering Column Diameter	2.01
Steering Wheel Diameter	17.00
Turning Diameters	
Outside front:	
Right and left wall to wall	44.1 Ft.
Right and left curb to curb	40.8 Ft.
Inside rear:	
Right and left wall to wall	24.2 Ft.
Right and left curb to curb	24.5 Ft.
Outside Wheel Angle with Inside Wheel@20° -	17°54'
Number of Wheel Turns:	
To steering gear stops	6.14
Lock to lock	5.80

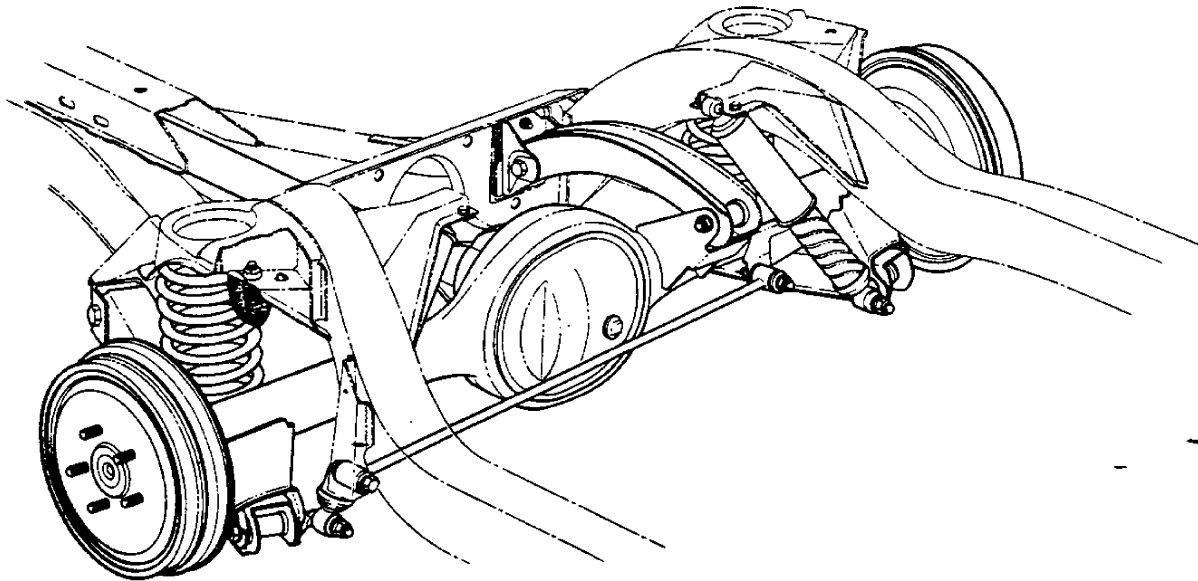
LINKAGE

Type	Relay
Location	To front of wheels
Tie Rods	2

POWER STEERING (RPO 324):

Make	Saginaw
Type	Hydraulic
Pump:	
Type	Vane
Mounting -- 6 cyl. ---	On bracket above generator
8 cyl. ---	On bracket below generator
Drive	From the crankshaft pulley.
Fluid capacity	1.5 pts
Power Application	Double acting piston in power cylinder is actuated by control valve after approximately 3 pounds of pressure is applied at the steering wheel.
Overall Ratio	24:1
Gear Ratio	20:1
Number of wheel turns:	
To steering gear stops	5.20
● Lock to lock	4.83

REAR SUSPENSION



GENERAL

Make ----- Chevrolet
 Type ----- Four-link with an upper control arm, a lateral control bar, and 2 lower control arms, coil springs.
 Provision for squat control ----- Rear suspension geometry, drive and torque taken through upper and lower control arms.

LATERAL CONTROL BAR

Mounting ----- Pivotaly attached at right side of axle housing banjo and at frame left sidemember.
 Diameter ----- .750
 Length ----- 31.35-31.47

WHEEL BEARINGS

Type ----- Single row ball

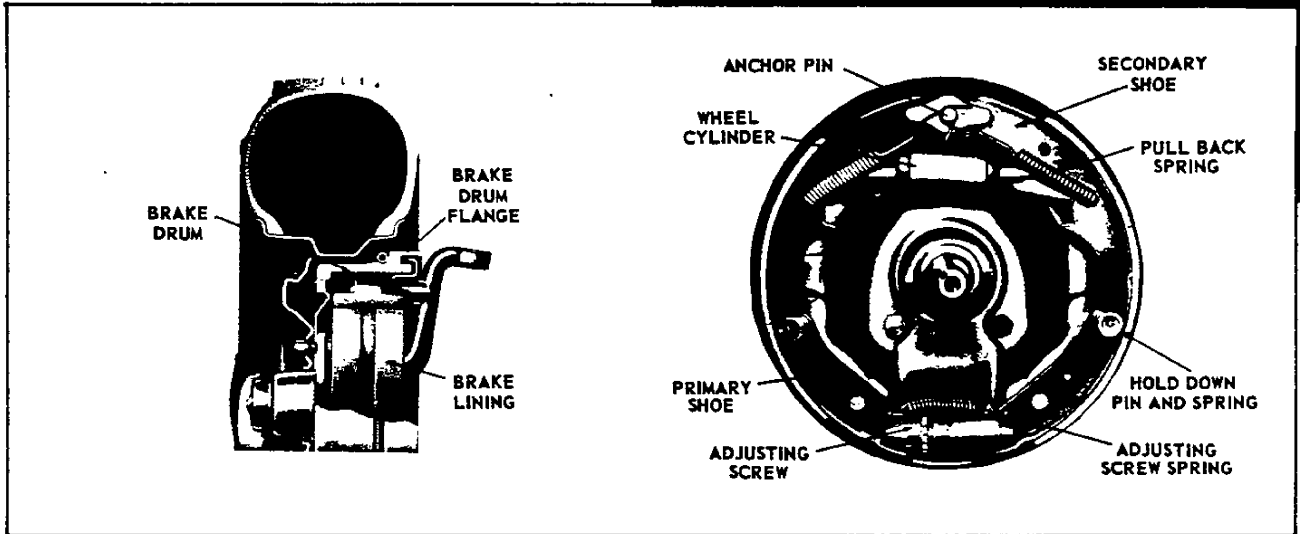
WHEEL TRAVEL

Vertical, Loaded Conditions
 Metal to metal ----- 4.32 up, 5.56 down
 Wheel to Spring Ratio ----- 1.51:1

SHOCK ABSORBERS ●

Make ----- Delco Products
 Type ----- Direct, double acting, hydraulic
 Secured to ----- Short cantilever bracket welded to frame side member at upper end (rear of) lower control arm at lower end
 Piston diameter ----- 1.00
 Piston travel (nominal) ----- 8.50
 Code
 Station wagons, RPO 200, RPO 580
 and RPO 587 ----- C2.25(40)F8/C1-82
 Others ----- C3(40)D8/B1.25-82

BRAKES



SERVICE BRAKES

Type ----- Servo, four wheel hydraulic
 Brake system fluid capacity ---- 0.64 pints (approx.)
 Line pressure @ 100 lb. pedal load (psi)----- 750
 Brake Drum:

Type ----- Composite
 Rim material ----- Cast alloy iron
 Web material ----- Pressed steel
 Diameter, front and rear ----- 11
 Swept drum area ----- 328 sq. in.

Distribution of Braking Effort (theoretical):

On front wheels ----- 58.5%
 On rear wheels ----- 41.5%

Brake Lining (dimensions after grinding):

Material ----- Full molded asbestos composition
 Width, front brakes ----- 2.75
 Width, rear brakes ----- 2.00
 Thickness (Minimum) ----- .168
 Length per wheel ----- 21.00
 Length, primary shoe ----- 9.30
 Length, secondary shoe ----- 11.70
 Method of attachment to shoe ----- Bonded
 Clearance ----- Adjust to a
 light drag and back off seven notches.
 Total effective area ----- 185.6 sq.in.*

Master Cylinder:

Mounting ----- Under hood on dash panel
 Diameter ----- 1.0
 Piston travel (Max.) ----- 1.329

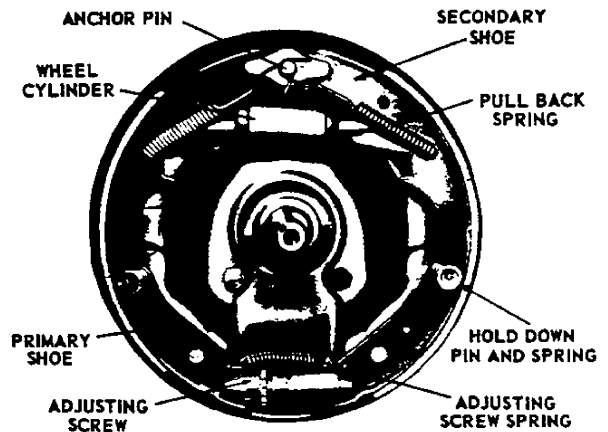
Wheel cylinders:

Mounting ----- Front, on wheel spindles,
 rear, on backing plate.
 Front, inside diameter ----- 1.1875
 Rear, inside diameter ----- 1.00

Braking Ratio:

Pedal ----- 6.21:1
 Hydraulic ----- 4.82:1
 Total overall ----- 29.93:1

* - Gross lining area is 199.5 square inches.
 All primaries have .38 inch full length groove.



Foot Pedal:

Type ----- Pendant
 Travel ----- 6.38
 Mounting ----- On brace under dash

PARKING BRAKE

Type ----- Mechanical pull rods
 and cables operate the two rear service brakes.
 Total Effective Lining Area ----- 77 sq.in.
 Control ----- Applied by pendulum foot pedal;
 released by T-handle below instrument panel left of
 steering column

STOP LIGHT SWITCH

Type ----- Mechanical
 Mounting ----- Under dash

POWER BRAKES (RPO 412)

Type ----- Regular production
 master cylinder assisted by vacuum power unit.
 Power Unit Location ----- Mounted
 on dash under hood.
 Brake System Fluid Capacity ----- 76 pints (Approx.)

Braking Assistance (percentage):

By vacuum cylinder ----- 40%
 By foot pedal ----- 60%

Braking Ratio:

Pedal ----- 3.43:1
 Hydraulic ----- 4.82:1
 Overall ----- 16.53:1
 Pedal Load to Actuate Power Brakes ----- 10 lb.

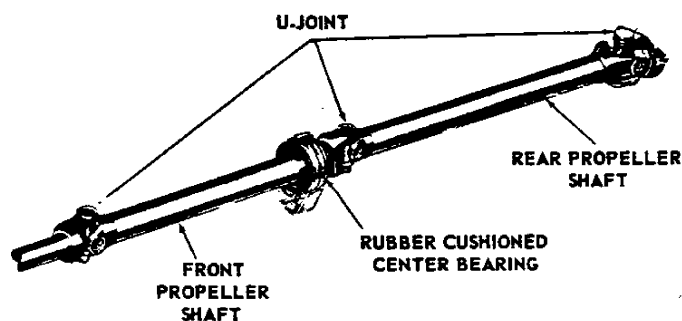
METALLIC BRAKES (RPO 686)

See Police Car Equipment in Passenger Car
 GENERAL Section.

DRIVELINES

UNIVERSAL JOINTS

Type ----- Yoke and yoke trunnion
 Number ----- 3
 Intermediate Bearing ----- Anti-friction, prepacked



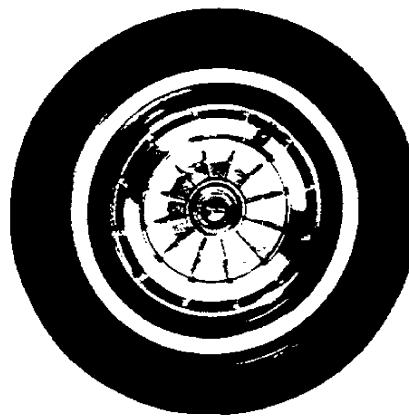
PROPELLER SHAFTS

Type ----- Tubular, exposed
 Number ----- 2
 Tube
 OD ----- 1.995-2.003
 Length
 Rear ----- 35.00
 Front
 3-Speed ----- 30.12
 Overdrive and 4-speed ----- 24.97
 Powerglide ----- 24.03
 Wall thickness ----- .097

WHEELS AND TIRES

WHEELS

Type ----- Short spoke disk
 Attachment to hub ----- 5 Hex nuts, 7/16-20 UNF-2B,
 arranged on a 4.75 inch dia bolt circle
 Offset ----- 0.560
 Rim Size
 Station Wagons ----- 14x6.0 JK
 Other Models ----- 14x5.0 J



ACCESSORY WHEEL DISK

TIRES

Type ----- Blackwall rayon tubeless
 Construction ----- 2 Ply except
 wagons which are 4 ply

Size

Sedan, Coupes and Convertibles except 11-1200
 Series Sedans ----- 7.50x14-4 PR
 11-1200 Series Sedans ----- 7.00x14-4 PR
 Station Wagons ----- 8.00x14-4 PR

● TIRE DATA

Tire Size	Loaded			Pressure (Cold)	
	Rolling Radius	Rev/Mi	Cap./Tire	Frt	Rr
7.00x14-4	12.15	815	975	24	
7.50x14-4	12.40	798	1085	24	
8.00x14-4	13.01	774	1175	24	24*

* - 28 psi on Station Wagons

SPARE TIRE LOCATION

Sedans and Coupes ----- Horizontally on
 left side of kickup
 Convertible ----- Horizontally on
 trunk floor to right of well
 Station Wagons ----- Vertically in
 right rear quarter panel, rear of wheelhouse

TOOLS

Jack
 Type ----- Bumper
 Stowage ----- Column serves as spare
 wheel support and base as spare wheel retainer
 Wheel Wrench ----- Serves also
 as jack handle and hub cap remover
 Stowage ----- Secured by tire under tire

ELECTRICAL

BULBS

Lamp Usage			Requirements	Trade No.	CP
Head-lamp	Outer	High beam	2	4002	37.5W
		Low beam			50W
	Inner	High beam	2	4001	37.5W
PG quadrant			1	53	1
Compass					
Direction signal indicator					
Heater or air conditioning					
Ignition switch					
Tachometer gage					
Traffic hazard flasher					
Headlamp beam indicator					
Clock					
Generator indicator					
Temp. indicator and gage			3	57	2
Glove compartment			1		
Speedometer head			3		
Oil pressure indicator			1		
Radio dial					
Fuel gage					

Lamp Usage		Requirements	Trade No.	CP
License		1	67	4
Tail (only)		2		
Dome	Rear quarter	2	90	6
	Roof center	1		
	Side rail	2		
Courtesy	Rear quarter	1	89	
	Instrument panel	2		
Luggage compartment		1	93	15
Underhood				
Parking brake alarm (flshg)		1	257	2
Back up		2	1073	32
Direction signal	Front	2	1034	4 and 32
	Parking & turn			
	Rear	2 or 4		
Tail, stop & turn				
Spot light	Inside operated	1	4405	30W
	Portable		4416	

FUSES AND CIRCUIT BREAKERS

Device or Circuit protected	Fuse and Rating (AMP)	Circuit Breaker Rating (AMP)	Location *	
Air conditioning (including heater)	SAE 20		FB	
Air conditioning blower motor			EC	
Cool Pak			FB	
Cool Pak blower motor			EC	
Windshield Wiper motor			14 (2 spd, in switch)	FB
Clock motor	AGC 15		FB	
Courtesy lamps				
Dome lamp				
Glove compartment lamp				
License lamp				
Luggage compartment lamp			EC	
Overdrive solenoid				
Spot lamp (inside operated)				
Tail lamps				
Tail, stop and direction signal lamps				
Tail, stop and direction signal lamps	AGC 10		FB	
Traffic hazard lamp				
Back up lamps				
Deluxe heater	SAE 9		EC	
Parking brake alarm flasher				
Underhood lamp	AGC 4		FB	
Radio receiver and radio lamp	AGC 3		FB	
Instrument panel lamps not shown		Flasher	FB	
Direction signal indicator				
Headlamps			15	Light Switch
Hydraulic folding top motor			40	Door Pillar
Parking lamps			15	Light Switch
Power seats			40	Door Pillar
Power windows			40	Door Pillar

* FB = Fuse block; EC = Engine compartment



4

5

6

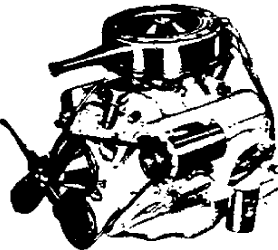
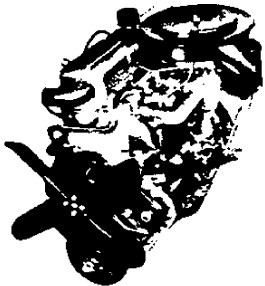
7

8

9



POWER TRAINS



POWER TEAM COMBINATIONS 2

HI-THRIFT 235 SIX CYLINDE ENGINE 4

TURBO-FIRE 283 V-8 ENGINE 11

TURBO-FIRE 327 V-8 ENGINE 19

TURBO-FIRE 409 V-8 ENGINE 27

CLUTCHES 35

THREE AND FOUR SPEED TRANSMISSIONS 36

OVERDRIVE UNIT 38

POWERGLIDE 39

POWER TEAM COMBINATIONS

<u>ENGINE</u>	<u>EQUIPMENT</u>	<u>TRANSMISSION</u>	<u>AXLE RATIO</u>	<u>POSITRACTION AXLE RATIOS</u>
235 CUBIC INCH L-6 HI-THRIFT 235 135 HORSEPOWER	SINGLE BARREL CARBURETOR HYDRAULIC LIFTERS	3-SPEED		
		SEDANS AND COUPES	3.36:1	3.36:1
		STATION WAGONS	3.55:1	3.55:1
		OVERDRIVE	3.70:1	3.70:1
		POWERGLIDE	3.36:1	3.36:1
283 CUBIC INCH V-8 TURBO-FIRE 283 170 HORSEPOWER	2-BARREL CARBURETOR HYDRAULIC LIFTERS	3-SPEED	3.36:1	3.36:1
		OVERDRIVE	3.70:1	3.70:1
		POWERGLIDE	3.36:1	3.36:1
327 CUBIC INCH V-8 TURBO-FIRE 327 250 HORSEPOWER RPO 300	4-BARREL CARBURETOR HYDRAULIC LIFTERS	3-SPEED	3.36:1	3.36:1
		4-SPEED	3.36:1	3.36:1
		POWERGLIDE	3.08:1	3.08:1
327 CUBIC INCH V-8 TURBO-FIRE 327 300 HORSEPOWER RPO 397	LARGE 4-BARREL ALUMINUM CARBURETOR HYDRAULIC LIFTERS	3-SPEED	3.36:1	3.36:1
		4-SPEED	3.36:1	3.36:1
		POWERGLIDE	3.36:1	3.36:1
409 CUBIC INCH V-8 TURBO-FIRE 409 380 HORSEPOWER RPO 580	LARGE 4-BARREL ALUMINUM CARBURETOR SPECIAL CAMSHAFT MECHANICAL LIFTERS	3-SPEED	3.36:1	3.36:1
				3.36:1
		4-SPEED	3.36:1	4.11:1
				4.56:1
		4-SPEED (OPTIONAL)	3.08:1	3.08:1
409 CUBIC INCH V-8 TURBO-FIRE 409 400 HORSEPOWER RPO 587	TWO 4-BARREL ALUMINUM CARBURETOR SPECIAL CAMSHAFT MECHANICAL LIFTERS	3-SPEED	3.36:1	3.36:1
				3.36:1
		4-SPEED	3.36:1	4.11:1
				4.56:1
		4-SPEED (OPTIONAL)	3.08:1	3.08:1

MULTIPLICATION FACTORS

WITH MANUAL TRANSMISSIONS

ENGINE	CARBU-RETION	TRANS-MISSION	TOTAL GEAR REDUCTION*					AXLE RATIO	MAX AXLE TORQUE LOW# GEAR (LB-FT)	
			1st	2nd	3rd	4th	Rev			
135 HP Six Cyl Hi-Thrift	Single Barrel	3-Speed	9.88	5.65	3.36		11.19	3.36:1	1654	
		Overdrive	out	10.88	6.22	3.70		12.32	3.70:1	1822
			in	7.62	4.35	2.59			3.70:1	1275
170 HP V-8 Turbo-Fire	2-Barrel	3-Speed	9.88	5.65	3.36		11.19	3.36:1	2057	
		Overdrive	out	10.88	6.22	3.70		12.32	3.70:1	2265
			in	7.62	4.35	2.59			3.70:1	1586
250 HP V-8 Turbo-Fire RPO 300	4-Barrel	3-Speed	8.30	5.14	3.36		9.41	3.36:1	2222	
		4-Speed	8.53	6.35	5.07	3.36	8.77	3.36:1	2285	
300 HP V-8 Turbo-Fire RPO 397	4-Barrel Aluminum	3-Speed	8.30	5.14	3.36		9.41	3.36:1		
		4-Speed	8.53	6.35	5.07	3.36	8.77	3.36:1		
380 HP V-8 Turbo-Fire RPO 580	4-Barrel Aluminum Special Cam	3-Speed	8.30	5.14	3.36		9.41	3.36:1		
		4-Speed	7.82	5.82	4.65	3.08	8.04	3.08:1		
		4-Speed	7.39	5.51	4.40	3.36	7.59	3.36:1		
409 HP V-8 Turbo-Fire RPO 587	2 x 4 Barrel Special Cam	3-Speed	8.30	5.14	3.36		9.41	3.36:1		
		4-Speed	7.82	5.82	4.65	3.08	8.04	3.08:1		
		4-Speed	7.39	5.51	4.40	3.36	7.59	3.36:1		

WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION*	AXLE RATIO
135 HP Six Cyl Hi-Thrift	Powerglide	Drive	12.84:1 - 3.36:1	3.36:1
		Low & Reverse	12.84:1 - 6.12:1	
170 HP V-8 Turbo-Fire	Powerglide	Drive	12.84:1 - 3.36:1	3.36:1
		Low & Reverse	12.84:1 - 3.36:1	
250 HP V-8 Turbo-Fire RPO 300	Powerglide	Drive	11.40:1 - 3.08:1	3.08:1
		Low & Reverse	11.40:1 - 5.61:1	
300 HP V-8 Turbo-Fire RPO 397	Powerglide	Drive	12.43:1 - 3.36:1	3.36:1
		Low & Reverse	12.43:1 - 6.12:1	

* - Axle ratio x transmission ratio

- Gear reduction x maximum net engine torque x efficiency factor (0.90 in drive, 0.85 all others)

235 CUBIC INCH SIX CYLINDER ENGINES

GENERAL DATA

Piston Displacement (Cu In)	Synchromesh	Overdrive	Powerglide
Type	235.5		
Number Cylinders	Valve-in-head		
Bore and Stroke (nominal)	6		
Compression Ratio	3.56 x 3.94		
Taxable (SAE) Horsepower	8.25:1		
Firing Order	30.4		
Idling Speed (RPM)	1-5-3-6-2-4		
Compression Press. (PSI) @ Cranking Speed, Engine Hot	500 in neutral	475 in drive	
Lubrication	130		
Power Plant Mounting	Full pressure		
Measurements	Two front, combination compression & shear type; one rear, full shear type		
	Fan to rear of engine block	34.48	
	Top of oil filler to bottom of oil pan	29.48	
	Crankcase vent tube to air cleaner (width)	28.80	

ADVERTISED ENGINE RATINGS

Engine	HI-Thrift 235		
Carburetor	Single Barrel		
Brake Horsepower	Gross	135 @ 4000 RPM	
	Net	115 @ 3600 RPM	
Torque (Lb-Ft)	Gross	217 @ 2000-2400 RPM	
	Net	197 @ 1200-2000 RPM	

ENGINE SPEED AND PISTON TRAVEL

Transmission	3-Speed	3-Speed with Overdrive		Powerglide
		OD Locked Out	OD Locked In	
Rear Axle Ratio	3.36:1	3.70:1		3.36:1
Tire Size	7.50 x 14-4 PR*			
Crankshaft Revolutions per Mile	2651.0	2919.3	2043.5	2651.0
Crankshaft RPM @ 1 MPH	Low	129.94	143.0	80.4
	Second	74.25	81.7	57.2
	Direct (N/V Factor)	44.2	48.7	44.2
	Reverse	147.1	162.0	113.4
Piston Travel (ft/mile)	1740.8	1916.8	1341.6	1740.8

* - 7.00 x 14-4 PR standard on 11-1200 series coupes and sedans; 8.00 x 14-4 PR standard on station wagons.

VEHICLE PERFORMANCE FACTORS

(Model 1569)

Transmission	3-Speed	3-Speed with Overdrive		Powerglide*
		Locked out	Locked in	
Performance Weight (pounds)	4235	4270		4340
Pounds per Gross Horsepower	31.37	31.63		32.15
Pounds per Cu In Displacement	18.02	18.17		18.47
Gross HP per Cu In Displacement		.574		
Power Displacement (Cu Ft/mile)	180.26	198.49	138.94	180.26
Displacement Factor (Cu Ft/ton mile)	85.11	92.96	65.07	83.07

* - Data computed assuming zero slippage in torque converter.

GLOSSARY

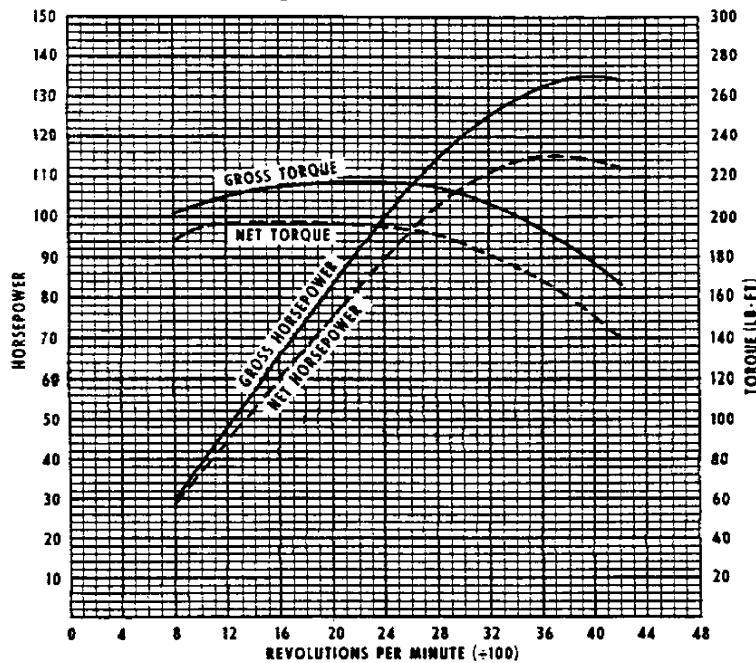
Performance Weight = Curb Weight plus 600 Lb
(weight of four 150 Lb passengers)

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

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

135 HP HI-THRIFT 6-CYLINDER

Single Barrel Carburetor



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

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

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

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

235 CUBIC INCH SIX CYLINDER ENGINES-Cont'd.

PRINCIPAL COMPONENTS

CYLINDER BLOCK

Material ----- Cast alloy iron
 Bore Diameter ----- 3.5620-3.5640
 No. of Bulkheads ----- 4
 Water Jacket ----- Full length
 Cylinder Numbering Arrangement
 Front to Rear ----- 1-2-3-4-5-6

CYLINDER HEAD

Material ----- Cast alloy iron
 Bolt No. ----- 18; .500 dia 13 threads/in
 ● Combustion Chamber Volume ----- 5.3869 cu. in.

INLET MANIFOLD

Material ----- Cast alloy iron
 Type ----- 3 port, round section
 Heat Provision ----- Heated by exhaust manifold

EXHAUST MANIFOLD

Material ----- Cast alloy iron
 Type ----- Low resistance
 Outlet Diameter (nominal) ----- 2.00

CRANKSHAFT

Material ----- Forged steel
 End Play ----- .0035-.0095
 Counter Weights ----- 7
 Crank Arm Length ----- 1.97
 Vibration Damper ----- Rubber mounted, inertia
 Timing Gear and Tooth Type ----- Steel, helical cut
 Pulley Pitch Diameter ----- 6.64

MAIN BEARINGS

Material ----- Extra-life steel backed babbitt
 Type ----- Precision removable
 Thrust Against Bearing No. ----- 3
 Clearance, Bearings #1 & #2 ----- .0008-.0024
 Bearings #3 & #4 ----- .0010-.0026

● Dimensions

Bearing	Theoretical Inner Dia	Effective Length	Projected Area
1	2.6858	1.063	2.855
2	2.7166	.907	2.464
3	2.7478	.979	2.690
4	2.7790	1.189	3.304

CAMSHAFT

Material ----- Cast alloy iron
 Drive ----- Gear; Bakelite and fabric composition with steel hub.
 End Play ----- .003-.005
 Lobe Lift; Inlet and Exhaust ----- .2217
 Bearings

Material ----- Extra-life steel backed babbitt

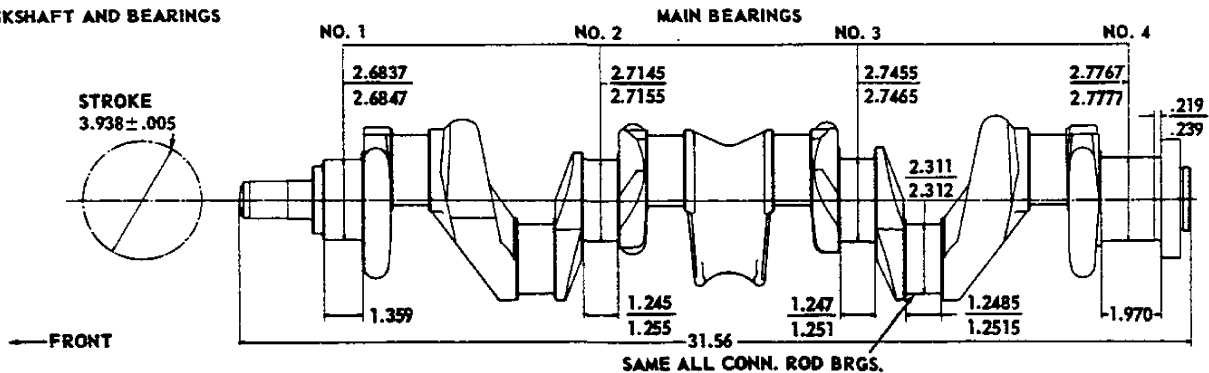
● Dimensions

Bearing	Rear Diameter	Effective Length	Projected Area
1	2.1562	1.120	2.415
2	2.0937	.940	1.968
3	2.0312	.940	1.909
4	1.9687	.938	1.847

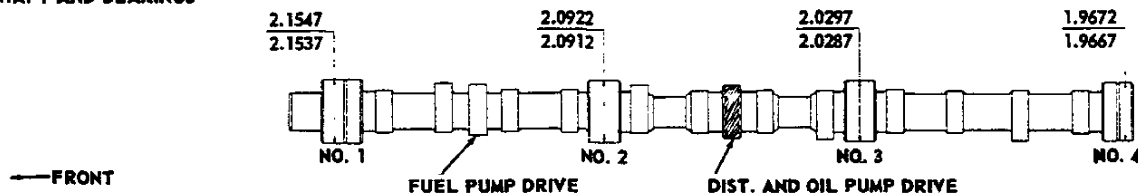
ROCKER ARMS

Type & Material ----- Cast alloy iron
 Ratio ----- 1.477:1

CRANKSHAFT AND BEARINGS



CAMSHAFT AND BEARINGS



PRINCIPAL COMPONENTS - Continued

VALVE TRAIN

Type ----- Overhead rocker arm
 push rod actuated
 Lifters ----- Hydraulic
 Push Rods -----
 Type & Material ----- Solid steel
 Ends ----- Hardened

VALVE SPRINGS

Diameter (I. D.) ----- .97
 Installed Length (in @ lb)
 Valves Closed ----- 1.858 @ 62-68
 Valves Open ----- 1.528 @ 158-168
 Free Length ----- 2.16
 Oil Shields ----- None

VALVES

Inlet Material ----- Carbon steel
 Exhaust Material ----- High alloy steel
 Stem to Guide Clearance ----- .0010-.0027

VALVE LIFT

Inlet ----- .3275
 Exhaust ----- .3275

VALVE TRAIN LASH

Inlet ----- Zero
 Exhaust ----- Zero

VALVE TRAIN TIMING (Including Ramps)

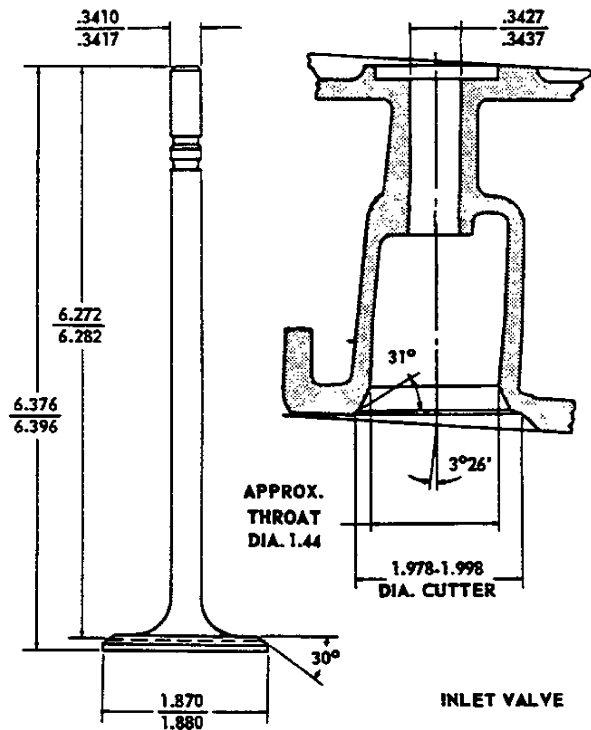
Inlet Valve
 Opens - BTC ----- 62°
 Closes - ABC ----- 94°
 Duration ----- 336°
 Exhaust Valve
 Opens - BBC ----- 92°30'
 Closes - ATC ----- 62°30'
 Duration ----- 336°

PISTON

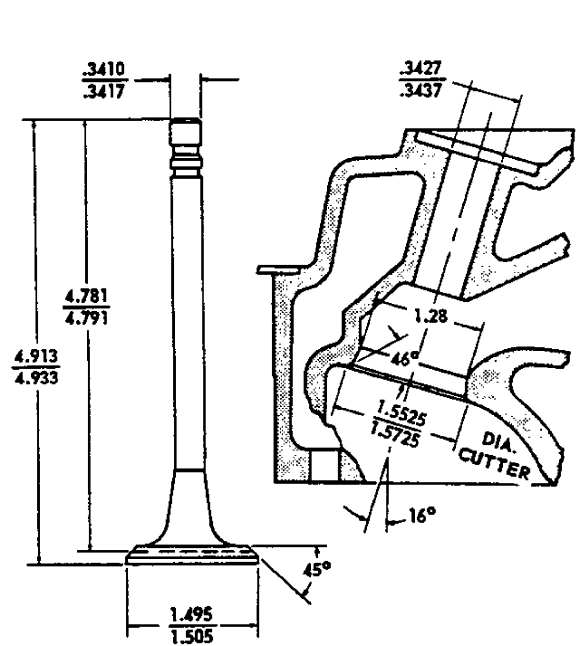
Material ----- Cast aluminum alloy
 Head Type ----- Flat
 Skirt Type ----- Full
 Top Land Clearance ----- .033-.042
 Skirt Clearance ----- .0006-.0010
 Compression Ring Groove Depth ----- .199-.205
 Oil Ring Groove Depth ----- .199-.205
 Pin Bore Offset ----- .073-.083

COMPRESSION RINGS-UPPER

Material ----- Cast alloy Iron
 Inside Bevel ----- Bottom of ring 30 degrees
 to piston vertical axis
 Ring Face ----- Tapered
 Coating ----- Wear resistant
 Width ----- .0930-.0935
 Wall Thickness ----- .168-.178
 Gap ----- .007-.017



INLET VALVE



EXHAUST VALVE

235 CUBIC INCH SIX CYLINDER ENGINES-Cont'd.

PRINCIPAL COMPONENTS - Continued

COMPRESSION RINGS - LOWER

Material	Cast alloy iron
Inside Bevel	Top of ring 30 degrees to piston vertical axis
Ring Face	Tapered
Coating	Wear resistant
Width .....	.0930-.0935
Wall Thickness .....	.168-.178
Gap .....	.007-.017

OIL CONTROL RINGS

Material	Steel
Type	Multi-piece (2 rails and one spacer)
Width .....	.187-.189 assembled
Wall Thickness .....	.150-.156
Gap .....	.015-.055
Rail Coatings	Chrome plated

PISTON PINS

Material	Chromium steel
Length	3.168-3.198
Diameter .....	.8660-.8665
Clearance in Piston .....	.00015-.00025
Pin Mounting	Locked in rod

CONNECTING RODS

Material	Forged steel
Length (center to center)	6.8125

CONNECTING ROD BEARINGS

Material	Extra-life steel backed babbitt
Type	Precision removable
Clearance .....	.0007-.0027
Theo. I. D.	2.3132
Effective Length	1.008
End Play .....	.005-.010

FUEL AND EXHAUST SYSTEM

FUEL TANK

Capacity (Gal)	
Sedans & coupes	20
Station wagons	19
Fuel Tank Location	
Station wagon	In left quarter panel behind rear wheel
Remaining Models	Rearward of rear axle kick-up in shelf area
Filler Location	Behind opening in left rear quarter panel

FUEL GAUGE (Tank Unit)

Make & Type	AC electric
-------------------	-------------

FUEL FILTER

In Fuel Tank	Strainer
In Carburetor Inlet	Sintered bronze filter

FUEL PUMP ASSEMBLY

Make	AC
Drive	Camshaft eccentric
Type	Diaphragm
Location	Lower right front of engine
Pressure Range	3.50-4.50 PSI

CARBURETOR

Make	Rochester
Model	Synchromesh & Powerglide
Type	Single barrel, downdraft
SAE Flange Size	1.50
Throttle Bore	1.5625
Venturi Diameter	1.34

AIR CLEANER

Make & Type	AC, Oil wetted polyurethane type filter element
-------------------	--

EXHAUST SYSTEM

Type	Single
Exhaust Pipe O. D.	2.00
Wall thickness .....	.063
Tail Pipe I. D.	1.81
Wall thickness .....	.059
Mufflers	
Type	Reverse flow
Construction	Oval, sheet steel, welded
Length, Body	29.24
Width (ID)	3.24
Height (ID)	7.74
Corrosion Prevention	Aluminum and Zinc

LUBRICATION SYSTEM

GENERAL

Type ----- Controlled, full pressure
 Main Bearings ----- Pressure
 Connecting Rods ----- Pressure
 Piston Pins ----- Splash
 Cylinder Walls ----- Pressure, jet cross sprayed
 Camshaft Bearings ----- Pressure
 Valve Lifters ----- Pressure
 Rocker Arms ----- Pressure
 Timing Gears ----- Nozzle sprayed
 Oil Pressure Sending Unit
 Type ----- Electric
 Actuation ----- Opens or closes circuit @ 2 to 6 PSI
 Crankcase Ventilation ----- Road draft type
 Oil Filler
 Cap ----- Oil-wetted metal mesh breather
 Location - Top center section of rocker cover

CRANKCASE CAPACITY (Quarts)

Refill ----- 5.0
 Refill with Filter Change ----- 6.0

OIL PUMP

Type ----- Gear

Regulator Valve ----- Opens between 30-35 lbs
 Oil Pressure @ 2000 RPM ----- 40 PSI (min.)
 Intake Type ----- Fixed
 Capacity (GPM @ Eng. RPM) -- 4.01-4.22@1170-1200

OIL FILTER

Make ----- AC
 Type ----- Partial flow, Replaceable element
 Location ----- Left side of engine
 bracketed to exhaust manifold.
 Capacity (qts) ----- 1

LUBRICANT GRADES AND TEMPERATURES

32°F and Above --- SAE 20W, SAE 20, SAE 10W-30
 0°F and Above ----- SAE 10W or SAE 10W-30
 Below 0°F ----- SAE 5W or SAE 5W-20

OIL PAN DRAIN SCREW

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

COOLING SYSTEM

GENERAL

Type ----- Pressure
 Capacity (Qts)
 ●With Heater (Standard Equipment) -----18.0
 By-pass ----- Internal

RADIATOR

Make and Type ----- Harrison, tube on center
 Core Constant and Thickness
 Distance between fins ----- .16
 Distance between tubes ----- .55
 Thickness of core ----- 1.26
 Frontal Area (Sq In) ----- 357

RADIATOR, HEAVY DUTY (RPO 257)

Core Constant and Thickness
 Distance between fins ----- .20
 Distance between tubes ----- .55
 Thickness of core ----- 1.75
 Front Area (Sq In) ----- 428.74

RADIATOR CAP RELIEF VALVE

Opens at ----- Approx 13 PSI

THERMOSTAT

Make and Type ----- Harrison, pellet
 Begins to Open at ----- 167-172°F
 Fully Opened at ----- 192°F

RADIATOR HOSE

Outlet, Lower (radiator to water pump) ---- 1.75 ID
 Inlet, Upper (thermostat hsg to radiator) --- 1.50 ID

FAN

Number of Blades ----- 4, staggered
 Diameter ----- 17.62
 Fan Pulley Pitch Diameter ----- 7.00

WATER PUMP

Type ----- Centrifugal
 Capacity ----- 60 GPM @ 4000 RPM
 Bearing ----- Permanent lubricated double row
 Drive ----- Fan belt
 Ratio (pump to engine RPM) ----- 949:1

BELT, CRANKSHAFT, FAN AND GENERATOR

Number Used ----- One
 Angle of "V" ----- 37°-44°
 Pitch Line ----- 40.50
 Width ----- .375

DRAIN LOCATIONS

Radiator ----- Right side bottom
 Type ----- Petcock
 Engine Block ----- Left rear side
 Type ----- Plug

235 CUBIC INCH SIX CYLINDER ENGINES-Cont'd.

ELECTRICAL SYSTEM

SUPPLY SYSTEM

BATTERY

Make ----- Delco-Remy
 Voltage Rating ----- 12
 Capacity (SAE) ----- 53 Amp hr @ 20 hr rate
 Total Number of Plates ----- 54
 Number of Cells ----- 6
 Terminal Grounded ----- Negative
 Location ----- Front engine compartment near radiator baffle.

GENERATOR

Make ----- Delco-Remy
 Type ----- Two brush, shunt wound
 Rating
 Amps ----- 30
 Volts ----- 12-15
 Drive ----- By fan belt
 Pulley Pitch Diameter ----- 2.88
 Ratio (Gen to Engine Speed) ----- 2.30:1

REGULATOR

Make ----- Delco-Remy
 Type ----- Vibrator
 Cutout Relay
 Closing voltage@gen RPM ----- 11.8-13.5 @ 1300
 Voltage Regulator
 Voltage ----- 13.8-14.8
 Current Regulator
 Amperes ----- 27-33
 Location ----- Left side front engine compartment.

STARTING SYSTEM

STARTING MOTOR

Make ----- Delco-Remy
 Rotation (drive end view) ----- Clockwise
 Test Conditions ----- Engine at operating temp
 No Load Test
 Amps ----- 49-76
 Volts ----- 10.6
 RPM ----- 6200-6900

Motor Drive

Engagement ----- Solenoid
 Pinion meshes at ----- Rear
 Pinion tooth no. ----- 9
 Flywheel tooth no. ----- 168
 Mounting ----- Bolted to clutch housing

STARTING

Ignition Switch ----- Five (5) positions, Accessory, Lock, Off, On, Start.

Starting Procedure

Synchromesh ----- Place gearshift lever in neutral and depress clutch pedal to floor.

Powerglide ----- Place control lever in N or P position.

Initial Start ----- Depress accelerator pedal to floor and release. Turn ignition to START and release as soon as engine starts. When engine is warm or outside temperature is below 0°F hold accelerator about half way open.

IGNITION SYSTEM

COIL

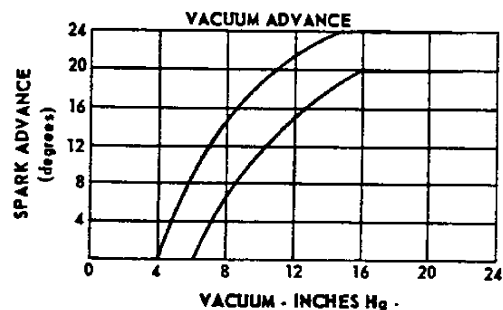
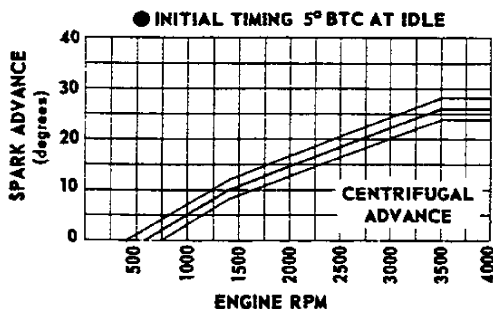
Make ----- Delco-Remy
 Type ----- 12 volt
 Amperes Drawn
 Engine stopped ----- 4.0
 Engine idling ----- 1.8 (500 RPM)

DISTRIBUTOR

Make ----- Delco-Remy
 Type ----- Single breaker
 Cam Angle ----- 33°
 Breaker Gap ----- .019
 Breaker Arm Tension ----- 19-23 oz
 Centrifugal Advance Begins (RPM) ----- 600
 Max Degrees @ RPM ----- 26° @ 3500
 Vacuum Advance Begins (In Hg) ----- 5
 Max Degrees @ In Hg ----- 22° @ 15.5
 Timing (Initial Design Setting)
 Crankshaft Degrees @ RPM --- 5° BTC @ 450-500
 Timing Mark Location ----- On flywheel

SPARK PLUGS

Make ----- AC 46
 Thread Size (mm) ----- 14
 Gap ----- .033-.038
 Torque ----- 25 lb ft



283 CUBIC INCH V-8 ENGINE

GENERAL DATA

Piston Displacement (Cu In)	Synchromesh	Overdrive	Powerglide
Type	283		
Number Cylinders	Valve-in-head		
Bore and Stroke (nominal)	8		
Compression Ratio	3.875 x 3.000		
Taxable (SAE) Horsepower	8.5:1		
Firing Order	.48		
Idling Speed (RPM)	1-8-4-3-6-5-7-2		
Compression Press (PSI) @ Cranking Speed Engine Hot	500 in neutral		475 in drive
Lubrication	140		
Power Plant Mounting	Full pressure		
Measurements	Two front, combination compression & shear type; one rear, full shear type		
	Fan to rear of engine block	30.28	
	Top air cleaner to bottom oil pan	29.54	
	Exhaust manifold to generator (width)	26.72	

ADVERTISED ENGINE RATINGS

Engine	Turbo-Fire 283		
Carburetor	2-Barrel		
Brake Horsepower	Gross	170 @ 4200 RPM	
	Net	135 @ 4000 RPM	
Torque (Lb-Ft)	Gross	275 @ 2200 RPM	
	Net	245 @ 2000 RPM	

ENGINE SPEED AND PISTON TRAVEL

Transmission	3-Speed	Overdrive (RPO 315)		Powerglide
Rear Axle Ratio	3.36:1	Locked out	Locked in	3.36:1
Tire Size	7.50 x 14-4 PR#			
Crankshaft Revolutions per Mile	2651.0	2919.3	2043.5	2651.0
Crankshaft RPM @ 1 MPH	Low	129.9	143.0	80.4
	Reverse	147.1	162.0	80.4
	Second	74.2	81.7	57.2
	Direct	44.2	48.7	34.1
Piston Travel (Ft/mile)	1325.5	1459.7	1021.8	1325.5

* - Also known as N/V factor

- 7.00 x 14-4 PR on 11-1200 Series Coupes & Sedans
8.00 x 14-4 PR on Station wagon models.

283 CUBIC INCH V-8 ENGINE - Cont'd.

VEHICLE PERFORMANCE FACTORS (Model 1669)

3-Speed Transmission

Performance Weight (pounds)	4240
Pounds per Gross Horsepower	24.94
Pounds per Cu In Displacement	14.98
Gross Horsepower per Cu In Displacement	.601
Power Displacement (Cu Ft/mile)	217.08
Displacement Factor (Cu Ft/ton mile)	102.40

3-Speed w/Overdrive Transmission (Overdrive Locked In)

Performance Weight (pounds)	4276
Pounds per Gross Horsepower	25.15
Pounds per Cu In Displacement	15.11
Gross Horsepower per Cu In Displacement	.601
Power Displacement (Cu Ft/mile)	167.32
Displacement Factor (Cu Ft/ton mile)	78.26

3-Speed w/Overdrive Transmission (Overdrive Locked Out)

Performance Weight (pounds)	4276
Pounds per Gross Horsepower	25.15
Pounds per Cu In Displacement	15.11
Gross Horsepower per Cu In Displacement	.601
Power Displacement (Cu Ft/mile)	239.03
Displacement Factor (Cu Ft/ton mile)	111.80

Powerglide Transmission *

Performance Weight (pounds)	4345
Pounds per Gross Horsepower	25.56
Pounds per Cu In Displacement	15.35
Gross Horsepower per Cu In Displacement	.601
Power Displacement (Cu Ft/mile)	217.08
Displacement Factor (Cu Ft/ton mile)	99.94

* - Data computed assuming zero slippage in torque converter

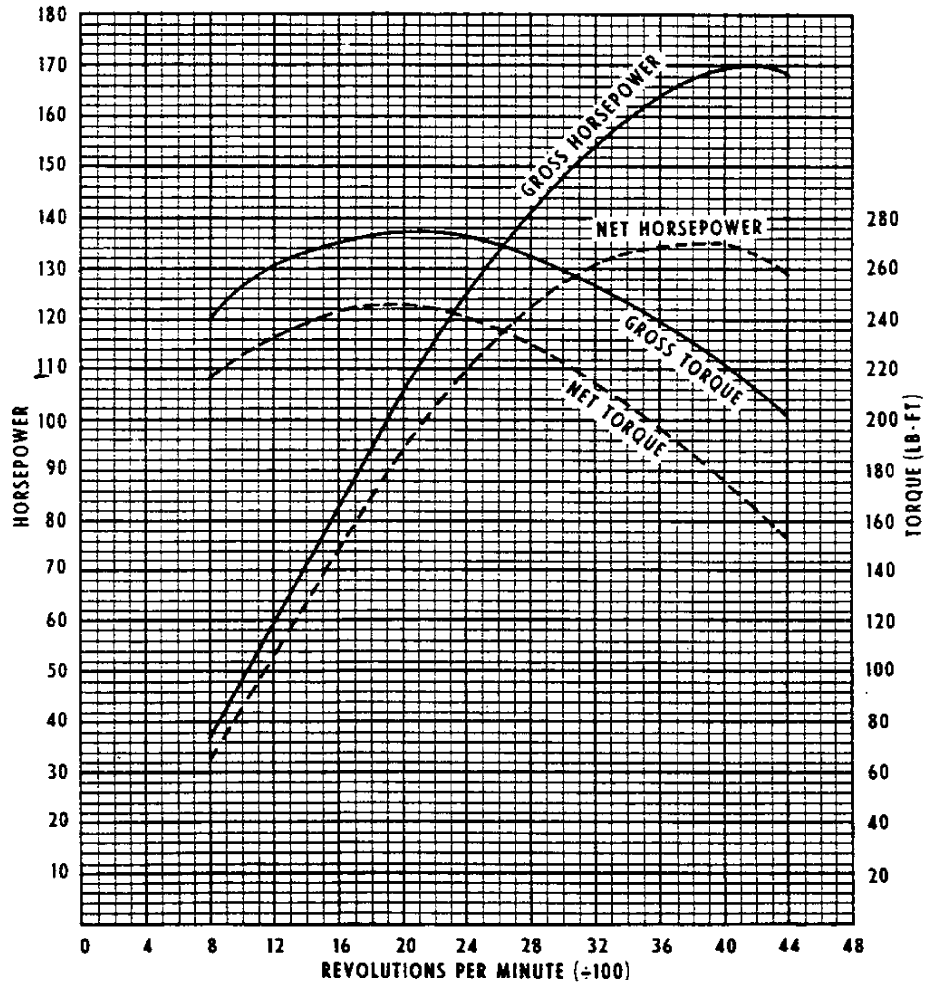
GLOSSARY

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

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

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

170 HP TURBO-FIRE V-8
2-Barrel Carburetor



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

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

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

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

283 CUBIC INCH V-8 ENGINE - Cont'd.

PRINCIPAL COMPONENTS

CYLINDER BLOCK

Material ----- Cast alloy iron
 Bore Diameter ----- 3.8745-3.8775
 No of Bulkheads ----- 5
 Water Jacket ----- Full length around each cyl
 Cylinder Numbering ----- Left bank 1-3-5-7
 Arrangement Frt to Rear ----- Right bank 2-4-6-8

CYLINDER HEAD

Material ----- Cast alloy iron
 Bolt No. & Size ----- 34; .4375 dia, 14 threads/in
 Combustion Chamber Volume ----- 4.986 Cu In

INLET MANIFOLD

Material ----- Cast alloy iron
 Type ----- 8 port double-deck
 Heat Provision ----- Heated by exhaust gases

EXHAUST MANIFOLD

Material ----- Cast alloy iron
 Type ----- Low resistance
 Outlet Diameter (nominal) ----- 2.00

CRANKSHAFT

Material ----- Forged steel
 End Play ----- .002-.006
 Counter Weights ----- 6
 Crank Arm Length ----- 1.50
 Vibration Damper ----- None
 Timing Gear & Mtl ----- Sprocket & Chain; Steel
 Pulley Pitch Diameter ----- 6.64

MAIN BEARINGS

Material ----- Extra-life steel backed babbitt
 Type ----- Precision removable
 End Thrust Against Bearing ----- 5
 Clearance ----- .0008-.0034

Dimensions

Bearing	Theoretical Inner Dia	Effective Length	Projected Area
1-4	2.3004	.752	1.7299
5	2.3004	1.177	2.7076

CAMSHAFT

Material ----- Cast alloy iron
 Lobe Lift
 Inlet ----- .2224
 Exhaust ----- .2224

Bearings

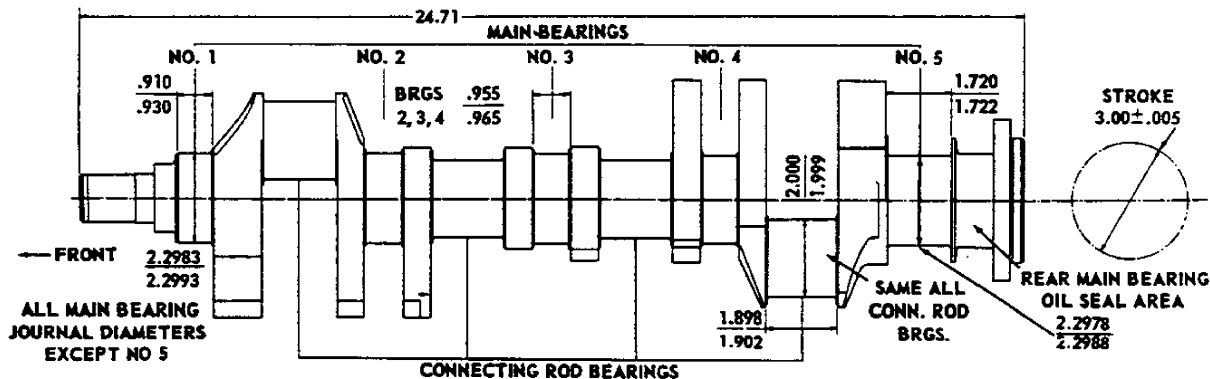
Material ----- Extra-life steel backed babbitt
 Dimensions

Bearing	Ream Diameter	Effective Length	Projected Area
1-4	1.8712	.740	1.3847
5	1.8712	.940	1.7589

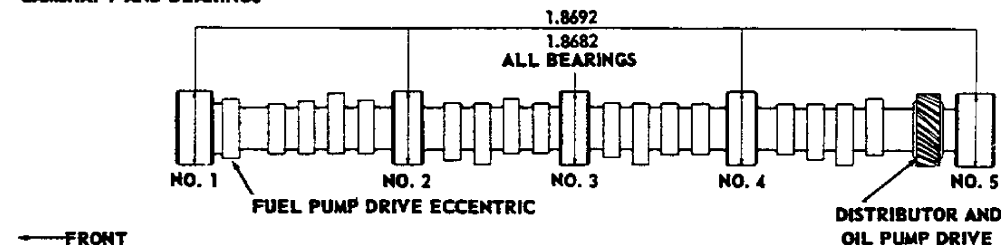
VALVE TRAIN

Type ----- Individually mounted overhead rocker arms push rod operated
 Lifters ----- Hydraulic
 Push Rods
 Type & Material ----- Hollow steel
 Ends ----- Hardened

CRANKSHAFT AND BEARINGS



CAMSHAFT AND BEARINGS



PRINCIPAL COMPONENTS - Continued

ROCKER ARMS

Type & Material ----- Stamped steel
Ratio ----- 1.5:1

VALVE SPRINGS

Diameter (I.D.) ----- .872-.888
Installed Length (in @ lb)
Valves Closed ----- 1.696 @ 76-84
Valves Opened ----- 1.366 @ 155-165
Free Length ----- 2.03
Valve Spring Dampers ----- None
Oil Shields ----- Steel cup

VALVES

Inlet Material ----- Carbon steel
Coating ----- None
Exhaust Material ----- High alloy steel
Coating ----- None
Stem to Guide Clearance ----- .0015-.0032

VALVE LIFT

Inlet ----- .3336
Exhaust ----- .3336

VALVE TRAIN LASH

Inlet ----- Zero
Exhaust ----- Zero

VALVE TRAIN TIMING (Including Ramps)

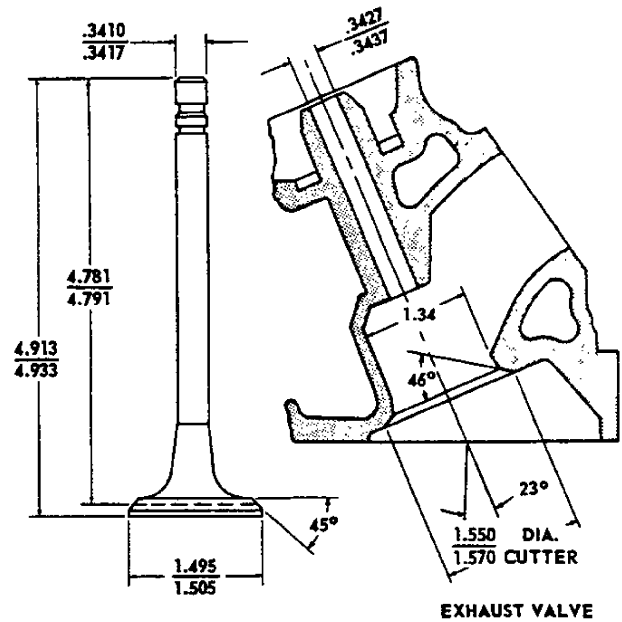
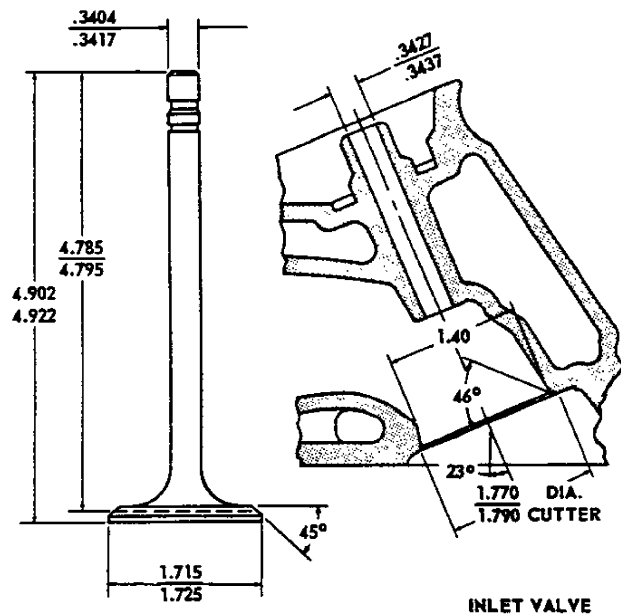
Inlet Valve
Opens - BTC ----- 330°
Closes - ABC ----- 102°
Duration ----- 315°
Exhaust Valve
Opens - BBC ----- 72°
Closes - ATC ----- 50°
Duration ----- 302°

PISTON

Material ----- Cast aluminum alloy
Head Type ----- Flat, notched
Skirt Type ----- Slipper
Top Land Clearance ----- .035-.044
Skirt Clearance ----- .0006-.0010
Compression Ring Groove Depth ----- .2153-.2218
Oil Ring Groove Depth ----- .2093-.2158
Pin Bore Offset ----- .055-.065

COMPRESSION RINGS - UPPER

Material ----- Cast alloy iron
Inside Bevel ----- Bottom edge 30 degrees
Ring Face ----- Tapered
Coating ----- Flash chrome plate
Width ----- .0775-.0780
Wall Thickness ----- .179-.194
Gap ----- .010-.020



283 CUBIC INCH V-8 ENGINE - Cont'd.

PRINCIPAL COMPONENTS - Continued:

COMPRESSION RINGS - LOWER

Material ----- Cast alloy iron
Inside Bevel ----- Top edge 30 degrees to
piston vertical axis
Ring Face ----- Tapered
Coating ----- Wear resistant
Width ----- .0770-.0780
Wall Thickness ----- .184-.194
Gap ----- .010-.020

OIL CONTROL RINGS

Material ----- Steel
Type ----- Multi-piece (2 rails and one spacer)
Width ----- .1930-.1950 assembled
Wall Thickness ----- .150-.156
Gap ----- .015-.055
Rail Coatings ----- Chrome Plated

PISTON PINS

Material ----- Chromium steel
Length ----- 2.990-3.010
Diameter ----- .9270-.9273
Clearance in Piston ----- .00015-.00025
Pin Mounting ----- Locked in rod by shrink fit

CONNECTING RODS

Material ----- Drop forged steel
Length (center to center) ----- 5.699-5.701

CONNECTING ROD BEARINGS

Material ----- Extra life steel backed babbitt
Type ----- Precision removable
Clearance ----- .0007-.0027
Theo. I.D. ----- 2.0016
Effective Length ----- .807
End Play ----- .008-.014

FUEL AND EXHAUST SYSTEM

FUEL TANK

Capacity (Gal)
Sedans & Coupes ----- 20
Station Wagons ----- 19
Fuel Tank Location
Station Wagon ----- In left quarter panel
behind rear wheel
Remaining Models ----- Rearward of rear axle
kick-up in shelf area
Filler Location ----- Behind opening in left
rear quarter panel

FUEL GAUGE (Tank Unit)

Make & Type ----- AC electric

FUEL FILTER

In Fuel Tank ----- Strainer
In Carburetor Inlet ----- Sintered bronze filter

FUEL PUMP ASSEMBLY

Make ----- AC
Drive ----- Camshaft eccentric
Type ----- Diaphragm
Location ----- Lower right front of engine
Pressure Range ----- 5.25-6.50 PSI

CARBURETOR

Make ----- Rochester
Model ----- Synchromesh & Powerglide
Type ----- 2-barrel, downdraft
SAE Flange Size ----- 1.25
Throttle Bore ----- 1.4375
Venturi Diameter ----- 1.09

AIR CLEANER

Make & Type ----- AC, Resin impregnated
paper type element

EXHAUST SYSTEM

Type ----- Single
Exhaust Pipe O.D. ----- 2.00
Wall thickness ----- .0625
Tail Pipe O.D. ----- 1.875
Wall thickness ----- .0598
Muffler
Type ----- Single, reverse flow
Construction ----- Oval, sheet steel, welded
Length, Body ----- 29.24
Width (ID) ----- 3.24
Height (ID) ----- 7.74
Corrosion prevention ----- Zinc coated

LUBRICATION SYSTEM

GENERAL

Type ----- Controlled full pressure
 Main Bearings ----- Pressure
 Connecting Rods ----- Pressure
 Piston Pins ----- Splash
 Cylinder Wall ----- Pressure, jet cross sprayed
 Camshaft Bearings ----- Pressure
 Valve Lifters ----- Pressure
 Rocker Arms ----- Pressure
 Timing Gears ----- Nozzle sprayed
 Oil Pressure Sending Unit
 Type ----- Electric
 Actuation ----- Opens or closes circuit @ 2 to 6 PSI
 Crankcase Ventilation ----- Road draft type
 Oil Filler
 Cap ----- Oil-wetted metal mesh breather
 Location ----- Left front of intake manifold

CRANKCASE CAPACITY (Quarts)

Refill ----- 4.0
 Refill with Filter Change ----- 5.0

OIL PUMP

Type ----- Gear
 Regulator Valve ----- Opens between 40-45 lbs

Oil Pressure @ 2000-RPM ----- 40 PSI (min.)
 Intake Type ----- Fixed
 Capacity (GPM @ Eng RPM) ----- 4.3 @ 2000

OIL FILTER

Make ----- AC
 Type ----- Replaceable element
 Location ----- Left rear underside of engine
 Capacity (Qts) ----- 1
 By-Pass Valve ----- Opens between 9 to 11 PSI drop in pressure

LUBRICANT GRADES AND TEMPERATURES

32° F and Above -- SAE 20W, SAE 20 or SAE 10W-30
 0° F and Above ----- SAE 10W, or SAE 10W-30
 Below 0° F ----- SAE 5W or SAE 5W-20

OIL PAN DRAIN SCREW

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

COOLING SYSTEM

GENERAL

Type ----- Liquid, Pressurized
 Capacity (Qts)
 ●With Heater (Standard Equipment) ----- 18.5
 By-pass ----- Internal

RADIATOR

Make & Type ----- Harrison, tube on center
 Core Constant and Thickness
 Distance between fins ----- .20 (syn) .18 (P/G)
 Distance between tubes ----- .55
 Thickness of core ----- 1.26
 Frontal Area (Sq. In) ----- 356.8

RADIATOR HEAVY DUTY (RPO 257)

Core Constant and Thickness
 Distance between fins ----- .22
 Distance between tubes ----- .55
 Thickness of core ----- 1.75
 Frontal Area (Sq In) ----- 428.7

RADIATOR CAP RELIEF VALVE

Opens at ----- Approx 13 PSI

THERMOSTAT

Make and Type ----- Harrison, Pellet
 Begins to Open ----- 167°-172° F
 Fully Opened ----- 192° F

RADIATOR HOSE

Outlet, Lower (radiator to waterpump) ----- 1.75 ID
 Inlet, Upper ----- 1.50 ID

FAN

Number of Blades ----- 4 staggered
 Diameter ----- 17.62
 Fan Pulley Pitch Diameter ----- 7.00

BELT; CRANKSHAFT, FAN AND GENERATOR

Number Used ----- One
 Angle of "V" ----- 37-44°
 Pitch Line ----- 54.12
 Width ----- .380

WATER PUMP

Type ----- Centrifugal
 Capacity ----- 53 GPM @ 4200 RPM
 Bearing ----- Permanently lubricated double row ball
 Drive ----- Fan Belt
 Ratio (pump to engine RPM) ----- .949:1

DRAIN LOCATIONS

Radiator ----- Right side bottom
 Type ----- Petcock
 Engine Block ----- Right and left center
 Type ----- Plug

283 CUBIC INCH V-8 ENGINE - Cont'd.

ELECTRICAL SYSTEM

SUPPLY SYSTEM

BATTERY

Make ----- Delco-Remy
 Voltage Rating ----- 12
 Capacity ----- 53 amp hr @ 20 hr rate
 Total Number of Plates ----- 54
 Number of Cells ----- 6
 Terminal Grounded ----- Negative
 Location ----- Front engine compartment
 near radiator baffle

GENERATOR

Make ----- Delco-Remy
 Type ----- Two brush, shunt wound
 Rating
 Amps ----- 30
 Volts ----- 12-15
 Drive ----- By fan belt
 Pulley Pitch Diameter ----- 2.88
 Ratio (Gen to Engine Speed) ----- 2.30:1

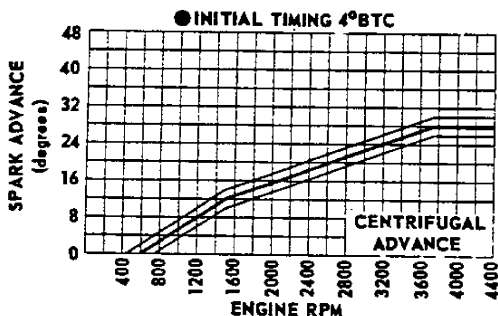
REGULATOR

Make ----- Delco-Remy
 Type ----- Vibrator
 Cutout Relay
 Closing voltage @ generator RPM-11.8-13.5@ 1300
 Voltage Regulator
 Voltage ----- 13.8-14.8
 Current Regulator
 Amperes ----- 27-33
 Location ----- Left side front
 engine compartment

STARTING SYSTEM

STARTING MOTOR

Make ----- Delco-Remy
 Rotation (drive end view) ----- Clock wise
 Test Conditions ----- Eng at operating temperature
 No Load Test
 Amps ----- 49-76
 Volts ----- 10.6
 RPM ----- 6200-9400
 Motor Drive
 Engagement ----- Solenoid
 Pinion meshes at ----- Rear
 Pinion tooth no ----- 9
 Flywheel tooth no ----- 168
 Mounting ----- Bolted to clutch housing



STARTING

Ignition Switch ----- Five (5) positions; Accessory
 Lock, Off, On, Start

Starting Procedure

Synchromesh ----- Place gearshift lever in neutral
 and depress clutch pedal to floor
 Powerglide ----- Place control lever in N or P
 position

Initial Start ----- Depress accelerator pedal to
 floor and release. Turn ignition
 to START and release as soon
 as engine starts. When engine
 is warm or outside temperature
 is below 0° F hold accelerator
 about half way open.

IGNITION SYSTEM

COIL

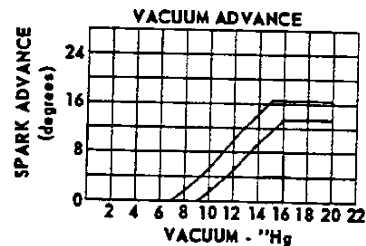
Make ----- Delco-Remy
 Type ----- 12 volt
 Amperes Drawn
 Engine stopped ----- 4.0
 Engine idling ----- 1.8

DISTRIBUTOR

Make ----- Delco-Remy
 Type ----- Single breaker
 Cam Angle ----- 30°
 Breaker Gap ----- .019 (new)
 Breaker Arm Tension ----- 19-23 oz
 Centrifugal Advance Begins (RPM) ----- 600
 Max Degrees @ RPM ----- 28 @ 3750
 Vacuum Advance Begins (In Hg) ----- 8
 Max Degrees @ In Hg ----- 15° @ 15.5
 Timing (Initial Design Setting)
 Crankshaft degrees @ RPM ----- 4° BTC @ 550
 Timing Mark Location ----- On harmonic balancer

SPARK PLUGS

Make ----- AC 46
 Thread Size (mm) ----- 14
 Gap ----- .033-.038
 Torque ----- 25 Lb Ft



327 CUBIC INCH V-8 ENGINE

GENERAL DATA

Piston Displacement (Cu In)	Synchromesh	4 Speed	Powerglide
	327		
Type	Valve-in-head		
Number Cylinders	8		
Bore and Stroke (nominal)	4.0 x 3.25		
Compression Ratio	10.5:1		
Taxable (SAE) Horsepower	51.2		
Firing Order	1-8-4-3-6-5-7-2		
Idling Speed (RPM)	500		475
Compression Press (PSI) @ Cranking Speed, Engine hot	160		
Lubrication	Full pressure		
Power Plant Mounting	Two front, combination compression & shear type; one rear, full shear type		
Measurements	Fan to rear of engine block	30.28	
	Top air cleaner to bottom oil pan	29.75	
	Exhaust manifold to generator (width)	26.72	

ADVERTISED ENGINE RATINGS

Engine	Turbo-Fire 327		Turbo-Fire 327 300 HP
Option	RPO 300		RPO 397
Carburetor	4 Barrel		Large 4 Barrel Aluminum
Brake Horsepower	Gross	250 @ 4400 RPM	300 @ 5000 RPM
	Net	210 @ 4400 RPM	
Torque (Lb-Ft)	Gross	350 @ 2800 RPM	360 @ 3200 RPM
	Net	315 @ 2600 RPM	

ENGINE SPEED AND PISTON TRAVEL

Transmission	Synchromesh	4-Speed	Powerglide
Rear Axle Ratio	3.36:1		3.08:1 **
Tire Size	7.50 x 14-4 PR*		
Crankshaft Revolutions per Mile	2651		2430
Crankshaft RPM @ 1 MPH	Low	109.1	112.3
	Second	67.6	84.9
	Third		66.7
	Direct N/V	44.2	44.2
	Reverse	123.7	115.4
Piston travel (Ft/mile)	1436		1316

*-8.00 x 14-4 PR Tires standard on Station Wagons

** 3.36:1 on 300 HP RPO 397 ●

327 CUBIC INCH V-8 ENGINE - Cont'd.

VEHICLE PERFORMANCE FACTORS (Model 1669)

ENGINE - 327 Cu. In. V-8	250 HP RPO 300	300 HP RPO 397
--------------------------	-------------------	-------------------

3-Speed Transmission

Performance Weight (pounds)	4309	4305
Pounds per Gross Horsepower	17.23	14.35
Pounds per Cu. In. Displacement	13.18	13.17
Gross HP per Cu. In. Displacement	.765	.917
Power Displacement (Cu. Ft. /mile)	250.83	250.83
Displacement Factor (Cu. Ft. /ton mile)	116.66	116.67

4-Speed Transmission

Performance Weight (pounds)	4311	4310
Pounds per Gross Horsepower	17.24	14.37
Pounds per Cu. In. Displacement	13.18	13.18
Gross HP per Cu. In. Displacement	.765	.917
Power Displacement (Cu. Ft. /mile)	250.83	250.83
Displacement Factor (Cu. Ft. /ton mile)	116.13	116.13

Powerglide *

Performance Weight (pounds)	4321	4328
Pounds per Gross Horsepower	17.28	14.43
Pounds per Cu. In. Displacement	13.21	13.24
Gross HP per Cu. In. Displacement	.765	.917
Power Displacement (Cu. Ft. /mile)	229.92	250.83
Displacement Factor (Cu. Ft. /ton mile)	106.44	116.13

* Data computed assuming zero slippage in torque converter

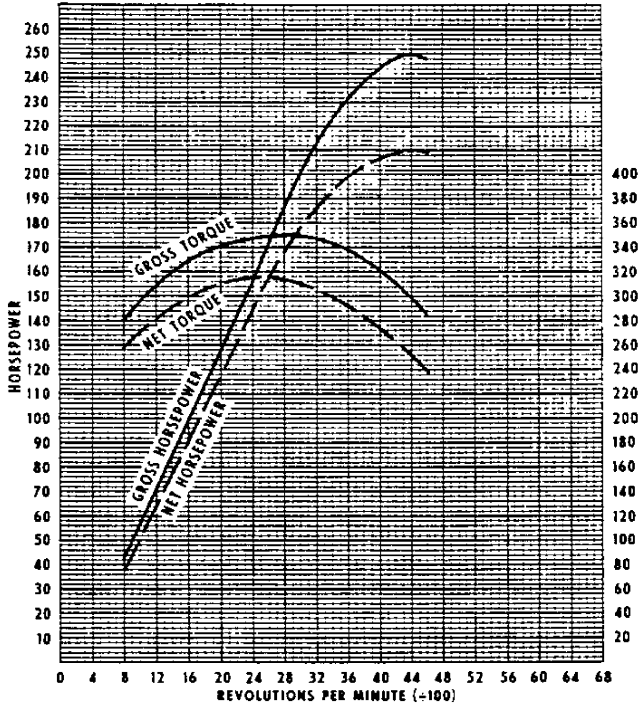
GLOSSARY

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

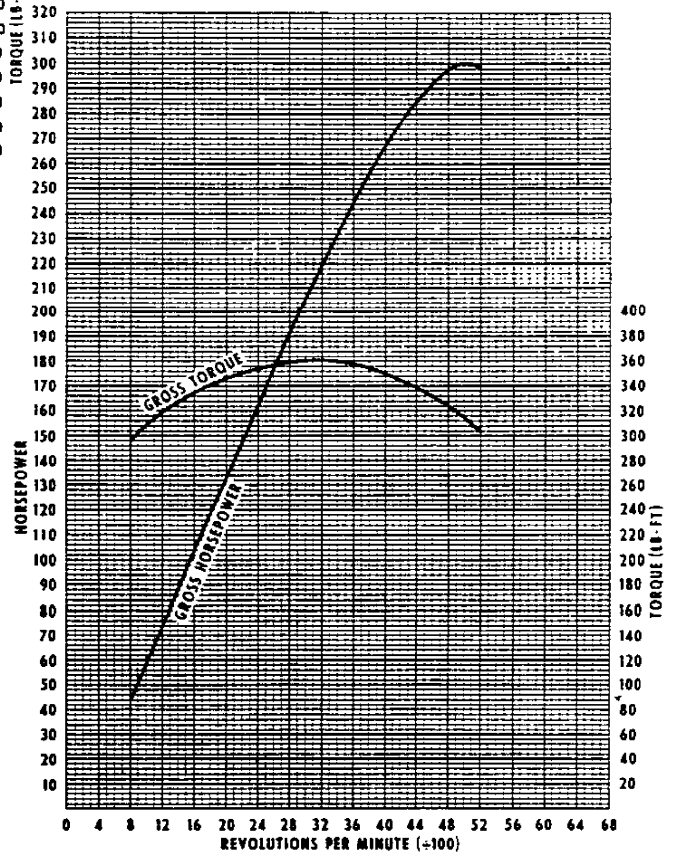
Power Displacement = $\frac{\text{Crankshaft Revs/Mi} \times \text{Piston Displacement}}{2 \times 1728}$

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

250 HP TURBO-FIRE V-8 RPO 300
4-Barrel Carburetor



300 HP TURBO-FIRE V-8 RPO 397
4-Barrel Aluminum Carburetor



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

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

system, no fan, generator not charging, optimum spark advance, & 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.

327 CUBIC INCH V-8 ENGINE - Cont'd.

PRINCIPAL COMPONENTS

CYLINDER BLOCK

Material ----- Cast alloy iron
 Bore Diameter ----- 4.00
 No. of Bulkheads ----- 5
 Water Jackets ----- Full length around each cyl
 Cylinder Numbering Arrangement (Front to Rear)
 Left Bank ----- 1-3-5-7
 Right Bank ----- 2-4-6-8

CYLINDER HEAD

Material ----- High chrome cast alloy iron
 Bolt No. & Size ----- 34: 4375 dia., 14 threads/in
 Combustion Chamber Volume (RPO 300) -- 4.452 Cu In
 (RPO 397) -- 4.596 Cu In

INLET MANIFOLD

Material ----- Cast alloy iron
 Type ----- 8 port double deck
 (RPO 397) large port
 Heat Provision ----- Heated by exhaust gases

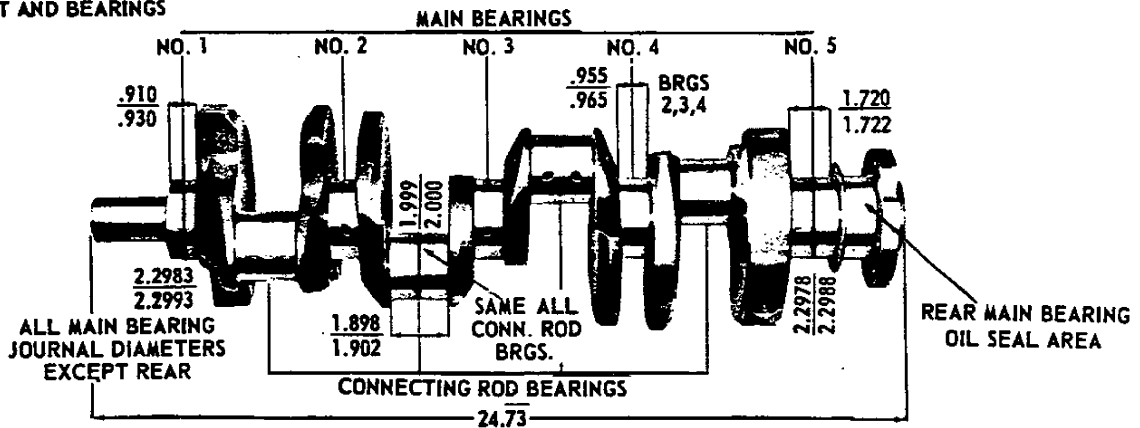
EXHAUST MANIFOLD

Material ----- Cast alloy iron
 Type ----- Low resistance
 Outlet Diameter (nominal) ----- 2.0
 (RPO 397) 2.5

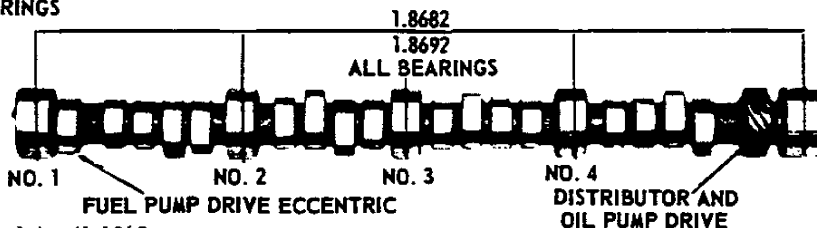
CRANKSHAFT

Material ----- Forged steel
 End Play ----- .002-.006
 Counter Weights ----- 6
 Crank Arm Length ----- 1.625
 Vibration Damper ----- Rubber mounted inertia dmp'r
 Timing Gear & Mtl. ----- Sprocket & chain, Steel
 Pulley Pitch Diameter ----- 6.64

CRANKSHAFT AND BEARINGS



● CAMSHAFT AND BEARINGS



MAIN BEARINGS

Material ----- Premium aluminum
 Type ----- Precision removable
 End Thrust Against Bearing ----- 5
 Clearance ----- .0008-.0034

● Dimensions

Bearing	Theoretical Inner Dia	Effective Length	Projected Area
1-4	2.3004	.752	1.7299
5	2.3004	1.177	2.7076

CAMSHAFT

Material ----- Cast alloy iron
 Lobe Lift
 Inlet ----- .2658
 Exhaust ----- .2658

Bearings

Material ----- Extra life steel backed babbitt
 Dimensions

Bearing	Ream Diameter	Effective Length	Projected Area
1-4	1.8712	.740	1.3847
5	1.8712	.940	1.7589

VALVE TRAIN

Type ----- Individually mounted overhead rocker arms push rod operated

Lifters ----- Hydraulic

Push Rods

Type & Material ----- Hollow steel
 Ends ----- Hardened

PRINCIPAL COMPONENTS - Continued

ROCKER ARMS

Type & Material ----- Stamped steel
 Ratio ----- 1.5:1

VALVE SPRINGS

Diameter (I.D.) ----- .872-.888
 Installed Length (in@lb)
 Valves Closed ----- 1.696 @ 69-79
 Valves Opened ----- 1.306 @ 159-169
 Free Length ----- 2.08
 Valve Spring Dampers ----- Steel - 4 coils
 Oil Shields ----- Steel cup

VALVES

Inlet Material ----- Carbon steel
 Coating ----- None
 Exhaust Material ----- High alloy steel
 Coating ----- Aluminum
 Stem to Guide Clearance ----- .0015-.0032

VALVE LIFT

Inlet ----- .3987
 Exhaust ----- .3987

VALVE TRAIN LASH

Inlet ----- Zero
 Exhaust ----- Zero

VALVE TRAIN TIMING (including ramps)

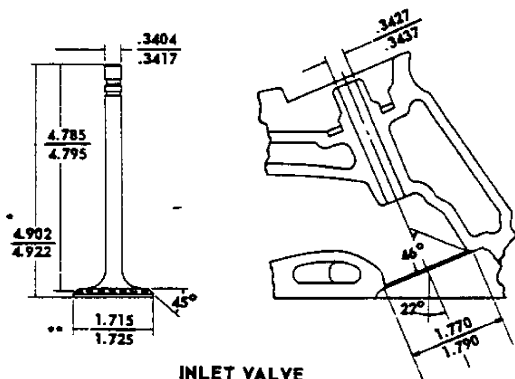
Inlet Valve
 Opens - BTC ----- 32° 30'
 Closes - ABC ----- 87° 30'
 Duration ----- 300°
 Exhaust Valve
 Opens - BBC ----- 74° 30'
 Closes - ATC ----- 45° 30'
 Duration ----- 300°

PISTON

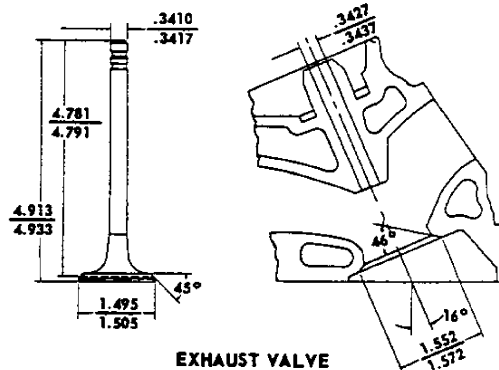
Material ----- Cast aluminum alloy
 Head Type ----- Flat, notched
 Skirt Type ----- Slipper
 Top Land Clearance ----- .0365-.0455
 Compression Ring Groove Depth ----- .2217-.2283
 Oil Ring Groove Depth ----- .2038-.2103
 Pin Bore Offset ----- .055-.065

COMPRESSION RINGS-UPPER

Material ----- Cast alloy iron
 Inside Bevel ----- Bottom edge 30 degrees
 Ring Face ----- Tapered
 Coating ----- Flash chrome plate
 Width ----- .0775-.0780
 Wall Thickness ----- .190-.200
 Gap ----- .013-.023



INLET VALVE



EXHAUST VALVE

- • 4.870 on RPO 397
- 4.889
- ** 1.935 on RPO 397
- 1.945

327 CUBIC INCH V-8 ENGINE - Cont'd.

PRINCIPAL COMPONENTS - Continued

COMPRESSION RINGS - LOWER

Material	Cast alloy iron
Inside Bevel	Top edge 30 degrees
Ring Face	Tapered
Coating	Wear resistant
Width	.0770-.0775
Wall Thickness	.190-.200
Gap	.013-.025

OIL CONTROL RINGS

Material	Steel
Type	Multi-piece (2 rails and one spacer)
Width	.1870-.1890 assembled
Wall Thickness	.133-.139
Gap	.015-.055
Rail Coatings	Chrome plated

PISTON PINS

Material	Chromium steel
Length	2.9990-3.010
Diameter	.9270-.9273
Clearance in Piston	.0015-.0025
Pin Mounting	Locked in rod by shrink fit

CONNECTING RODS

Material	Drop forged steel
Length (center to center)	5.699-5.701

CONNECTING ROD BEARINGS

Material	Premium aluminum
Type	Precision removable
Clearance	.0007-.0028
Theo. I.D.	2.0013
Effective Length	.807
End Play	.0008-.0014

FUEL AND EXHAUST SYSTEM

FUEL TANK

Capacity (Gal)	
Sedans & Coupes	20
Station Wagons	19
Fuel Tank Location	
Station Wagon	In left quarter panel behind rear wheel
Remaining Models	Rearward of rear axle kick-up in shelf area
Filler Location	Behind opening in left rear quarter panel

FUEL GAUGE (Tank unit)

Make & Type	AC, electric
-------------	--------------

FUEL FILTER

In Fuel Tank	Strainer
In Carburetor	Sintered bronze filter

FUEL PUMP ASSEMBLY

Make	AC
Drive	Camshaft eccentric
Type	Diaphragm
Location	Lower right front of engine
Pressure Range	5.25-6.50 PSI

CARBURETOR

Make & Model	Carter, <i>synchronesh</i> Carter & Rochester-pwr/gld
Type	
RPO 300	4 bbl downdraft
RPO 397	4 bbl aluminum downdraft
SAE Flange Size	
RPO 300	1.50
RPO 397	1.50

Throttle Bore

Primary	
RPO 300	1.4375
RPO 397	1.5625
Secondary	
RPO 300	1.4375
RPO 397	1.6875
Secondary Throttle Actuation	By linkage approximately when primary valves are opened half way between closed and full open
Venturi Diameter	
Primary	1.06 (RPO 300) 1.25 (RPO 397)
Secondary	1.25 (RPO 300) 1.5625 (RPO 397)

AIR CLEANER

Make & Type	AC, Resin impregnated paper type element
-------------	--

EXHAUST SYSTEM

Type	Dual
Exhaust Pipe O.D.	2.00(RPO 300) 2.50(RPO 397)
Wall Thickness	.0619-.0631 (RPO 300) .067-.081(RPO 397)
Tail Pipe OD	1.875 (RPO 300) 2.00(RPO397)
Wall Thickness	.052-.066
Muffler	
Type	Dual, reverse flow
Construction	Oval, sheet steel, welded
Length, Body	29.24
Width (ID)	3.24
Height (ID)	7.74
Corrosion prevention	Aluminum & Zinc
Resonators	
Type	Straight through
Corrosion prevention	Aluminum

LUBRICATION SYSTEM

GENERAL

Type ----- Controlled full pressure
 Main Bearings ----- Pressure
 Connecting Rods ----- Pressure
 Piston Pins ----- Splash
 Cylinder Walls ----- Pressure, jet cross sprayed
 Camshaft Bearings ----- Pressure
 Valve Lifters ----- Pressure
 Rocker Arms ----- Pressure
 Timing Gears ----- Nozzle sprayed
 Oil Pressure Sending Unit
 Type ----- Electric
 Actuation ---- Opens or closes circuit @ 2 to 6 PSI
 Crankcase Ventilation ----- Road draft type
 Oil Filler
 Cap ----- Oil-wetted metal mesh breather
 Location ----- Right front of intake manifold

CRANKCASE CAPACITY (Quarts)

Refill ----- 4.0
 Refill with Filter Change ----- 5.0

OIL PUMP

Type ----- Gear

Normal Oil Pressure ----- 40 PSI (min.) @ 2000 RPM
 Intake Type ----- Fixed
 Capacity (GPM @ Eng RPM) ----- 4.3 @ 2000
 Regulator Valve ----- Opens between 30-35 lbs

OIL FILTER

Make ----- AC
 Type ----- Full flow, replaceable element
 Location ----- Left rear underside of engine
 Capacity (Qts) ----- 1
 By-Pass Valve ----- Opens between 9 to 11 PSI drop in pressure

LUBRICANT GRADES AND TEMPERATURES

32°F and Above -- SAE 20W, SAE 20, or SAE 10W-30
 0°F and Above ----- SAE 10W, or SAE 10W-30
 Below 0°F ----- SAE 5W or SAE 5W-20

OIL PAN DRAIN SCREW

Type ----- Hex head
 Location ----- Lower front edge of oil pan sump
 Size Hex Head ----- .860-.875
 Thread ----- 1/2-20 UNF 2A
 Length ----- .081
 Diameter ----- .410-.430

COOLING SYSTEM

GENERAL

Type ----- Liquid, Pressurized
 ●Capacity (Qts)
 With Heater (Standard Equipment) ----- 18.5
 By-pass ----- Internal

RADIATOR

Make & Type ----- Harrison, tube on center
 Core Constant and Thickness
 Distance between fins ---- .20 (syn) ---- .18 (P/G)
 Distance between tubes ----- .55
 Thickness of core ----- 1.26
 Frontal Area (Sq In) ----- 357

RADIATOR HEAVY DUTY (RPO 257)

Core Constant and Thickness
 Distance between fins ----- .22
 Distance between tubes ----- .55
 Thickness of core ----- 1.75
 Frontal Area (Sq In) ----- 429

RADIATOR CAP RELIEF VALVE

Opens at ----- Approx 13 PSI

THERMOSTAT

Make ----- Harrison, Pellet
 Begins to Open ----- 167°-172°F
 Fully Opened ----- 192°F

RADIATOR HOSE

Outlet, Lower (radiator to water pump) ----- 1.75 ID
 Inlet, Upper ----- 1.50 ID

FAN

Number of Blades ----- 5, staggered
 Diameter ----- 18.00
 Fan Pulley Pitch Diameter ----- 7.00
 Drive
 Type ----- Thermo modulated fluid coupling
 Performance ----- At 4000 RPM input, fan speed
 =3200-3500 RPM @135°-150°F;
 800-1600 RPM @ 120°F and below

BELT; CRANKSHAFT, FAN AND GENERATOR

Number Used ----- One
 Angle of "V" ----- 37-44°
 Pitch Line ----- 54.12
 Width ----- .380

WATER PUMP

Type ----- Centrifugal
 Capacity ----- 55 GPM @ 4400 RPM
 Bearing ---- Permanently lubricated double ball roll
 Drive ----- Fan belt
 Ratio Pump to Engine RPM ----- .949:1

DRAIN LOCATIONS

Radiator --- RPO 300 Left RPO 397 Right side bottom
 Type ----- Petcock
 Engine Block ----- Right and left center
 Type ----- Plug

327 CUBIC INCH V-8 ENGINE - Cont'd.

ELECTRICAL SYSTEM

SUPPLY SYSTEM

BATTERY

Make ----- Delco-Remy
 Voltage Rating ----- 12
 Capacity (SAE) ----- 61 amp. hr @ 20 hr rate
 Total Number of Plates ----- 66
 Number of Cells ----- 6
 Terminal Grounded ----- Negative
 Location ----- Right front engine compartment
 near radiator baffle

GENERATOR

Make ----- Delco-Remy
 Type ----- Two brush shunt wound
 Rating
 Amps ----- 30
 Volts ----- 12-15
 Drive ----- By fan belt
 Pulley Pitch Diameter ----- 2.88
 Ratio (Gen to Engine Speed) ----- 2.30:1

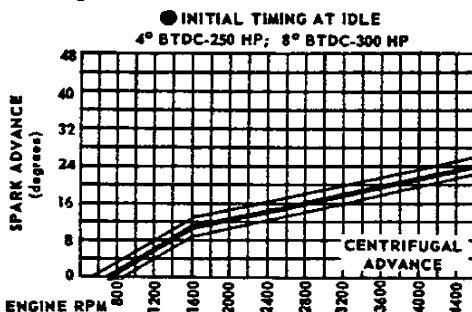
REGULATOR

Make ----- Delco-Remy
 Type ----- Vibrator
 Cutout Relay
 Closing voltage @ generator RPM-11.8-13.5@1300
 Voltage Regulator
 Voltage ----- 13.8-14.8
 Current Regulator
 Amperes ----- 27-33
 Location ----- Left side front
 engine compartment

STARTING SYSTEM

STARTING MOTOR

Make ----- Delco-Remy
 Rotation (drive end view) ----- Clockwise
 Test Conditions ----- Eng at operating temperature
 No Load Test
 Amps ----- 65 - 100
 Volts ----- 10.6
 RPM ----- 3600 - 5100
 Motor Drive
 Engagement ----- Solenoid
 Pinion meshes at ----- Rear
 Pinion tooth no ----- 9
 Flywheel tooth no ----- 168
 Mounting ----- Bolted to clutch housing



STARTING

Ignition Switch ----- Five (5) positions; Accessory
 Lock, Off, On, Start

Starting Procedure

Synchromesh ----- Place gearshift lever in
 neutral and depress clutch
 pedal to floor

Powerglide ----- Place control lever in N
 or P position

Initial Start ----- Depress accelerator pedal to
 floor and release. Turn ignition
 to START and release as soon as
 engine starts. When engine is
 warm or outside temperature is
 below 0°F hold accelerator about
 half way open.

IGNITION SYSTEM

COIL

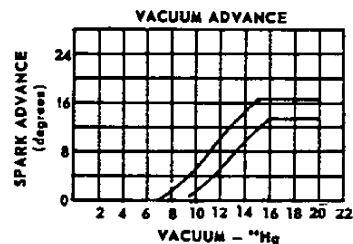
Make ----- Delco-Remy
 Type ----- 12 volt
 Amperes Drawn
 Engine stopped ----- 4.0
 Engine idling ----- 1.8

DISTRIBUTOR

Make ----- Delco-Remy
 Type ----- Single breaker
 Cam Angle ----- 30°
 Breaker Gap ----- .019 (new)
 Breaker Arm Tension ----- 19-23 oz.
 Centrifugal Advance Begins (RPM) ----- 700
 Max Degrees @ RPM ----- 24° @ 4600
 Vacuum Advance Begins (In Hg) ----- 8
 Max Degrees @ In Hg ----- 15° @ 15.5
 Timing (Initial Design Setting)
 Crankshaft Degrees @ RPM ----- 4° BTC @ 550
 RPO 397 --- 8° BTC @ 500
 Timing Mark Location ----- On harmonic balancer

SPARK PLUGS

Make ----- AC 44
 Thread Size (mm) ----- 14 mm
 Gap ----- .033-.038
 Torque ----- 25 Lb Ft



409 CUBIC INCH V-8 ENGINE

GENERAL DATA

		3-Speed	4-Speed
Piston Displacement (Cu In)		409	
Type		Valve-in-head	
Number Cylinders		8	
Bore and Stroke (nominal)		4.3125 x 3.50	
Compression Ratio		11.00:1	
Taxable (SAE) Horsepower		59.5	
Firing Order		1-8-4-3-6-5-7-2	
Idling Speed (RPM)		700	
Compression Press (PSI) @ Cranking Speed, Engine Hot		150	
Lubrication		Full pressure	
Power Plant Mounting		Two front, combination compression & shear type; one rear, full shear type	
Measurements	Fan to rear of engine block	31.94	
	Top air cleaner to bottom oil pan	31.15	
	Exhaust manifold to generator (width)	30.45	

ADVERTISED ENGINE RATINGS

Engine	Turbo-fire 409 380 HP	Turbo-fire 409 409 HP
Carburetor	Large 4-Barrel Aluminum	Two 4-Barrel Aluminum
Option	RPO 580	RPO 587
Brake Gross Horsepower	380 @ 5800	409 @ 6000
Brake Gross Torque	420 @ 3200	420 @ 4000

●ENGINE SPEED AND PISTON TRAVEL

Transmission		3-Speed	4-Speed
Rear Axle Ratio		3.36:1	
Tire Size		8.00-14-4PR	
Crankshaft Revolutions per Mile		2600.6	
Crankshaft RPM @ 1 MPH	Low	107.1	95.4
	Second	66.3	71.9
	Third		56.8
	Direct N/V	43.3	43.3
	Reverse	123.7	98.0
Piston Travel (Ft/Mile)		1408.6	
		1291.3	

409 CUBIC INCH V-8 ENGINE - Cont'd.

VEHICLE PERFORMANCE FACTORS (Model 1669)

ENGINE - 409 Cu. In. V-8	380 HP RPO 580	409 HP RPO 587
--------------------------	-------------------	-------------------

●3-Speed Transmission

Performance Weight (pounds)	4407	4418
Pounds per Gross Horsepower	11.60	10.80
Pounds per Cu. In. Displacement	10.78	10.80
Gross HP per Cu. In. Displacement	.929	1.00
Power Displacement (Cu. Ft. /mile)	307.81	307.81
Displacement Factor (Cu. Ft. /ton mile)	139.73	139.28

●4-Speed Transmission

Performance Weight (pounds)	4413	4428
Pounds per Gross Horsepower	11.61	10.82
Pounds per Cu. In. Displacement	10.79	10.82
Gross HP per Cu. In. Displacement	.929	1.00
Power Displacement (Cu. Ft. /mile)	307.81	307.81
Displacement Factor (Cu. Ft. /ton mile)	139.53	138.65

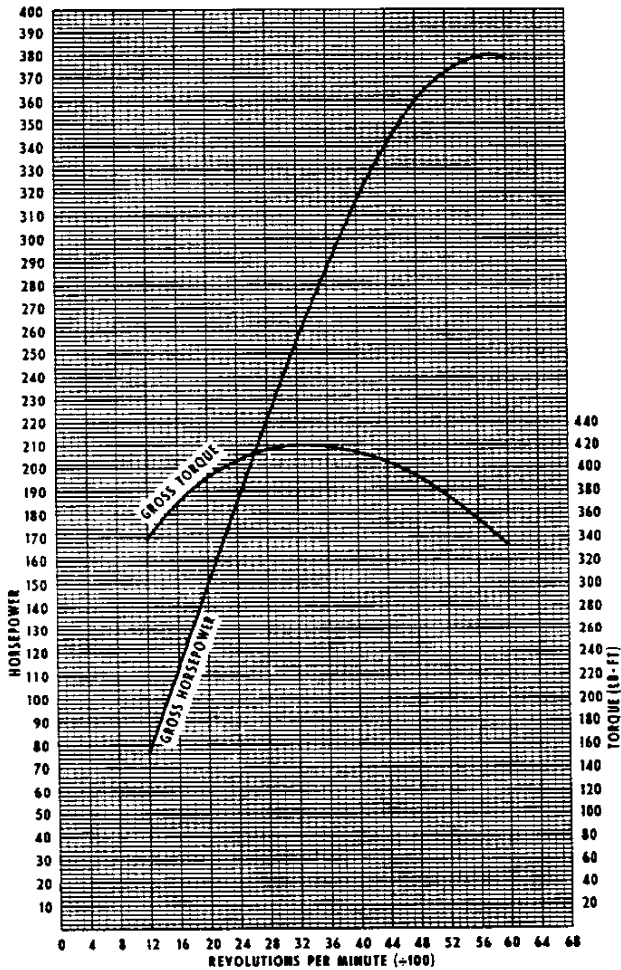
GLOSSARY

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

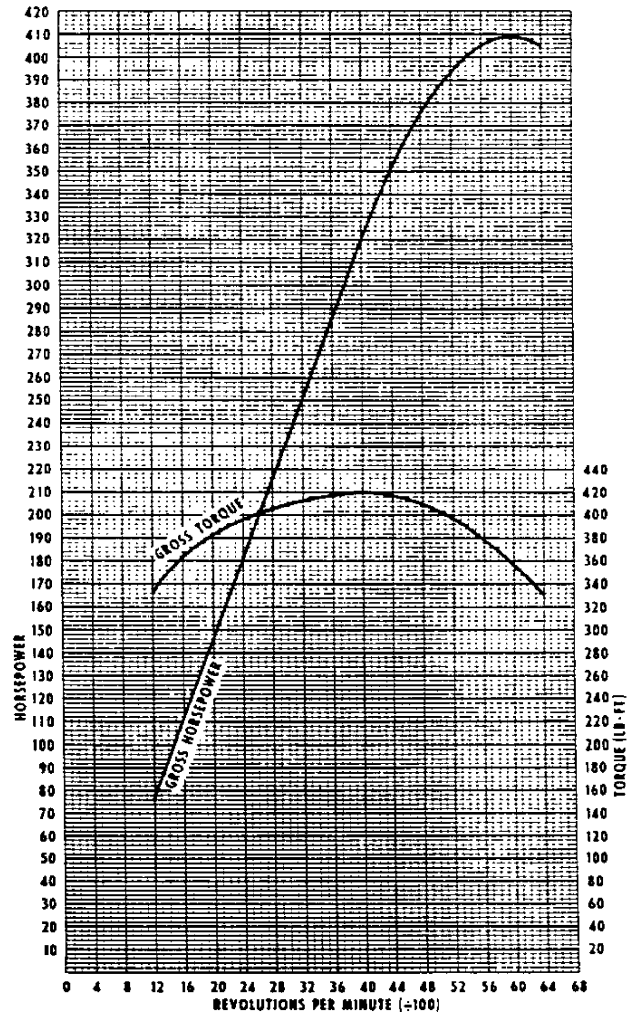
Power Displacement = $\frac{\text{Crankshaft Revs/Mi} \times \text{Piston Displacement}}{2 \times 1728}$

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

380 HP TURBO-FIRE V-8 RPO 580
4-Barrel Aluminum Carburetor
Special Camshaft



409 HP TURBO-FIRE V-8 RPO 587
Two 4-Barrel Aluminum Carburetor
Special Camshaft



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

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

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

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

409 CUBIC INCH V-8 ENGINE - Cont'd.

PRINCIPAL COMPONENTS

CYLINDER BLOCK

Material ----- Cast alloy iron
 Bore diameter ----- 4.3120-4.3150
 No of Bulkheads ----- 5
 Water Jacket ----- Full length around each cyl
 Cylinder Numbering Arrangement (front to rear)
 Left Bank ----- 1-3-5-7
 Right Bank ----- 2-4-6-8

CYLINDER HEAD

Material ----- High chrome cast alloy iron
 Bolt No & Size ----- 36; .4375 dia, 14 threads/in
 Combustion Chamber Volume ----- 5.101 Cu In

INLET MANIFOLD

● Material ----- Cast Aluminum
 Type ----- 8 port double-deck
 Heat Provision ----- Heated by exhaust gases

EXHAUST MANIFOLD

Material ----- Cast alloy iron
 Type ----- Low resistance
 Outlet Diameter (nominal) ----- 2.50

CRANKSHAFT

Material ----- Forged steel
 End Play ----- .006-.010
 Counter Weights ----- 6
 Crank Arm Length ----- 1.75
 Vibration Damper ----- Rubber mounted inertia
 Timing Gear & Mtl. ----- Steel Sprocket & Chain
 Pulley Pitch Diameter --- Dual ----- 6.64

MAIN BEARINGS

Material ----- Premium Aluminum
 Type ----- Precision removable
 End Thrust Against Bearing ----- 5
 Clearance ----- .0006-.0032
 Dimensions

Bearing	Theoretical Inner Dia	Effective Length	Projected Area
1-4	2.5001	.992	2.4801
5	2.5008	1.5855	3.9650

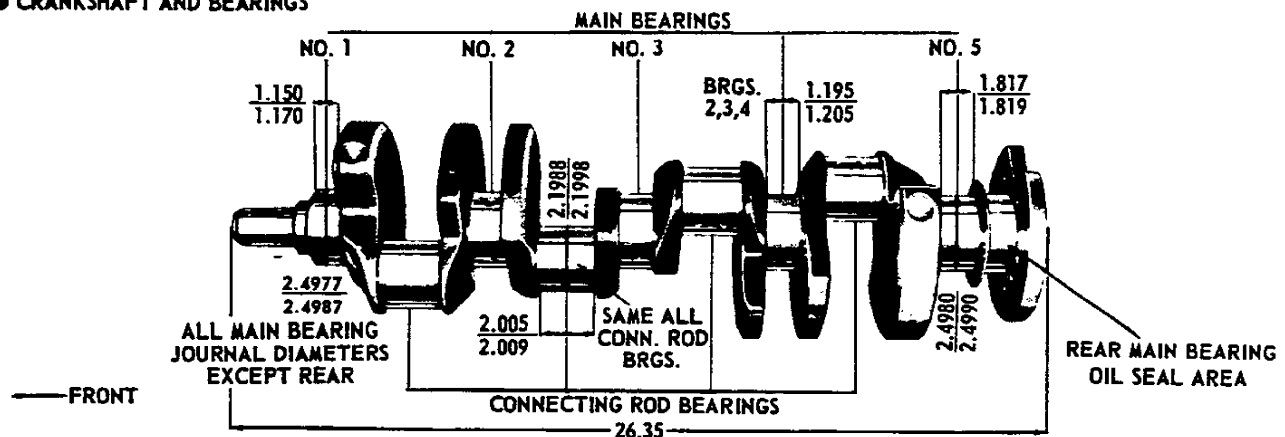
CAMSHAFT

Material ----- Cast alloy iron
 Lobe Lift
 Inlet ----- .2512
 Exhaust ----- .2512
 Bearings
 Material ----- Extra-life steel backed babbitt

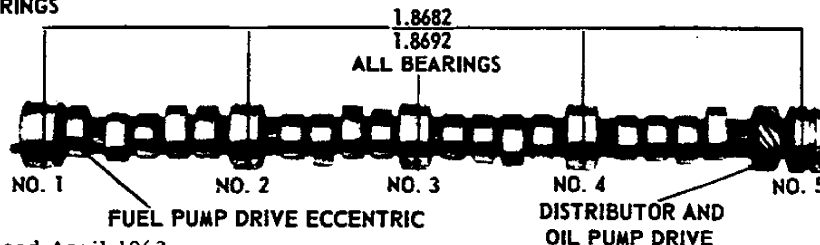
Dimensions

Bearing	Ream Diameter	Effective Length	Projected Area
1-4	1.8712	.860	1.6092
5	1.8712	.940	1.7589

● CRANKSHAFT AND BEARINGS



CAMSHAFT AND BEARINGS



October 1961 ● Revised April 1962
 30-POWER TRAINS

1962 CHEVROLET PASSENGER CAR

PRINCIPAL COMPONENTS - Continued

ROCKER ARMS

Type & Material ----- Stamped steel
 Ratio ----- 1.75:1

● VALVE SPRINGS

Diameter (I.D.) ----- 1.070-1.090
 Installed Length (in@lb)
 Valves Closed ----- 1.68 @ 128-140
 Valves Opened ----- 1.20 @ 315-339
 Free Length ----- 2.01
 Valve Spring Damper ----- Steel 3.75 coils
 Oil Shield ----- Steel cup

VALVES

Inlet Material ----- Carbon steel
 Coating - Face & head aluminized; Stem chrome flash
 Exhaust Material ----- High alloy steel
 Coating - Face & head aluminized; Stem chrome flash
 Stem to Guide Clearance ----- .0025-.0042

● VALVE LIFT

Inlet ----- .4396
 Exhaust ----- .4396

VALVE TRAIN LASH

Inlet ----- .008
 Exhaust ----- .018

● VALVE TRAIN TIMING (including ramps)

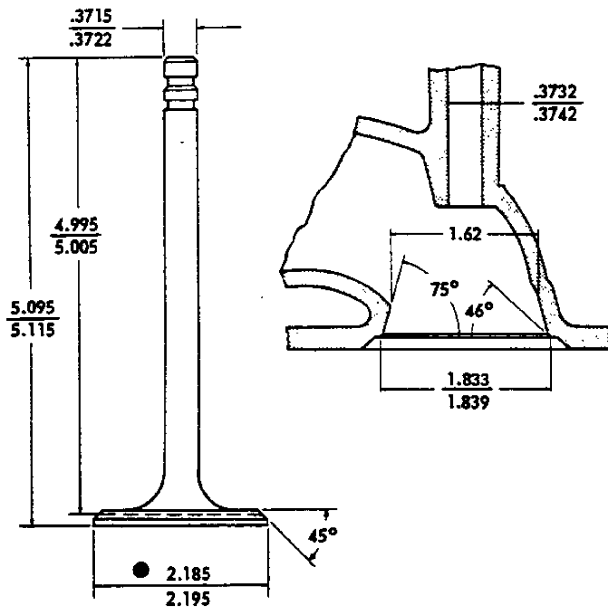
Inlet Valve (with .008 lash)
 Opens - BTC ----- -86°
 Closes - ABC ----- -132°
 Duration ----- 398°
 Exhaust Valve (with .018 lash)
 Opens - BBC ----- 93° 30'
 Closes - ATC ----- 79° 30'
 Duration ----- 353°

PISTON

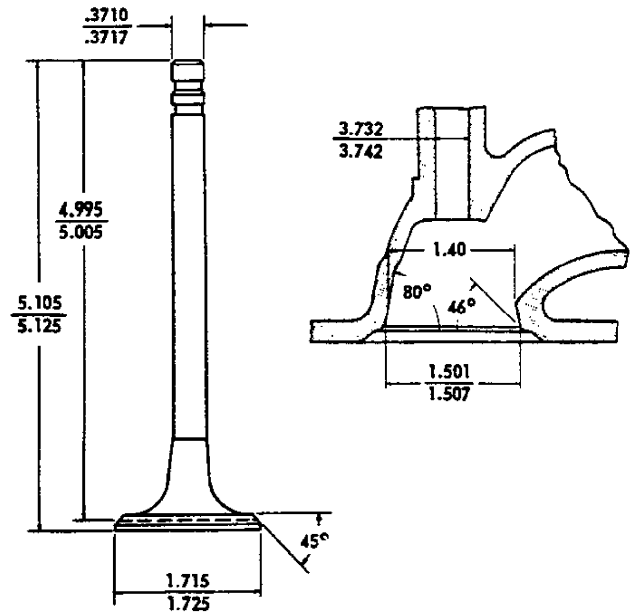
Material ----- Aluminum, Impact extruded
 Head Type ----- Half slant
 Skirt Type ----- Slipper
 Top Land Clearance ----- .0520-.0610
 Skirt Clearance ----- .0031-.0035
 Compression Ring Groove Depth ----- .2390-.2455
 Oil Ring Groove Depth ----- .2125-.2190

COMPRESSION RINGS-UPPER

Material ----- Cast alloy iron
 Inside Bevel ----- Bottom edge 28°52' degrees
 Ring Face ----- Tapered
 Coating ----- Chrome plate
 Width ----- .0770-.0780
 Wall Thickness ----- .194-.204
 Gap ----- .015-.025



INLET VALVE



EXHAUST VALVE

409 CUBIC INCH V-8 ENGINE - Cont'd.

PRINCIPAL COMPONENTS - Continued

COMPRESSION RINGS - LOWER

Material ----- Cast alloy iron
 Inside Bevel ----- Top edge 28°52' degrees
 Ring Face ----- Tapered
 Coating ----- Chrome plate
 Width ----- .0770-.0780
 Wall Thickness ----- .194-.204
 Gap ----- .015-.025

OIL CONTROL RINGS

Material ----- Steel
 Type ----- Multi-piece (2 rails and one spacer)
 Width ----- .1839-.1879 assembled
 Wall Thickness ----- .165-.171
 Gap ----- .015-.065
 Rail Coatings ----- Chrome plated OD

PISTON PINS

Material ----- Chromium steel
 Length ----- 3.250-3.270
 Diameter ----- .9895-.9898
 Clearance in Piston ----- 00045-.00055
 Pin Mounting ----- Locked in rod by shrink fit

CONNECTING RODS

Material ----- Drop forged steel
 Length (center to center) ----- 6.009-6.011

CONNECTING ROD BEARINGS

Material ----- Premium Aluminum
 Type ----- Precision removable
 Clearance ----- .0007-.0028
 Theo ID ----- 2.2011
 Effective Length ----- .857
 End Play ----- .015-.021

FUEL AND EXHAUST SYSTEM

FUEL TANK

Capacity (Gal)
 Sedans & Coupes ----- 20
 Station Wagons ----- 19
 Fuel Tank Location
 Station Wagon ----- In left quarter panel
 behind rear wheel
 Remaining Models ----- Rearward of rear axle
 kick-up in shelf area
 Filler Location ----- Behind opening in left
 rear quarter panel

FUEL GAUGE (Tank Unit)

Make & Type ----- AC electric

FUEL FILTER

In Fuel Tank ----- Strainer
 In Carburetor Inlet ----- Sintered bronze filter

FUEL PUMP ASSEMBLY

Make ----- AC
 Drive ----- Camshaft eccentric
 Type ----- Diaphragm
 Location ----- Lower right front of engine
 Pressure Range ----- 5.25-6.50 PSI

CARBURETOR

Make ----- Carter
 Type
 RPO 580 ----- 4 bbl downdraft
 RPO 587 ----- 2 x 4 bbl downdraft

SAE Flange Size ----- 1.50

Throttle Bore

Primary
 RPO 580 ----- 1.625
 RPO 587 ----- 1.5625
 Secondary
 RPO 580 ----- 1.6875
 RPO 587 ----- 1.6875
 Secondary Throttle Actuation ----- By linkage
 approximately when primary valves are opened
 half way between closed and full open
 Venturi Diameter
 Primary ----- (RPO 580) 1.34375 (RPO 587) 1.25
 Secondary ----- 1.5625

AIR CLEANER

Make & Type -- RPO 580 AC Oil wetted polyurethane
 RPO 587 AC Resin impregnated paper

EXHAUST SYSTEM

Type ----- Dual
 Exhaust Pipe O.D. ----- 2.50
 Wall thickness ----- .067-.081
 Tail Pipe O.D. ----- 2.00
 Wall thickness ----- .059
 Muffler
 Type ----- Dual, reverse flow
 Construction ----- Oval, sheet steel, welded
 Length, Body ----- 29.25
 Width (I.D.) ----- 3.24
 Height (I.D.) ----- 7.74
 Corrosion prevention ----- Zinc & Aluminum
 Resonators
 Type ----- Straight through
 Corrosion prevention ----- Aluminum coating

LUBRICATION SYSTEM

GENERAL

Type ----- Controlled full pressure
 Main Bearings ----- Pressure
 Connecting Rods ----- Pressure
 Piston Pins ----- Splash
 Cylinder Walls ----- Pressure, jet cross sprayed
 Camshaft Bearings ----- Pressure
 Valve Lifters ----- Pressure
 Rocker Arms ----- Pressure
 Timing Gears ----- Nozzle sprayed
 Oil Pressure Sending Unit
 Type ----- Electric
 Actuation ---- Opens or closes circuit @ 2 to 6 PSI
 Crankcase Ventilation ----- Road draft type
 Oil Filler
 Cap ----- Oil wetted metal mesh breather
 Location ----- Right front of intake manifold

CRANKCASE CAPACITY (Quarts)

Refill ----- 6
 Refill with Filter Change ----- 7

OIL PUMP

Type ----- Gear

Normal Oil Pressure ----- 50 PSI (min.) @ 2000 RPM
 Intake Type ----- Fixed
 Capacity (GPM @ Eng RPM) ----- 4.3 @ 2000
 Regulator Valve ----- Opens between 40-45 lbs

OIL FILTER

Make ----- AC
 Type ----- Full flow, replaceable element
 Location ----- Left rear of engine
 Capacity (Qts) ----- 1
 By-Pass Valve ----- Opens between 9 to 11 PSI
 drop in pressure

LUBRICANT GRADES AND TEMPERATURES

32° F and Above -- SAE 20W, SAE 20 or SAE 10W-30
 0° F and Above ----- SAE 10W or SAE 10W-30
 Below 0° F ----- SAE 5W or SAE 5W-20

OIL PAN DRAIN SCREW

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

COOLING SYSTEM

GENERAL

Type ----- Liquid, Pressurized
 Capacity (Qts)
 ● With Heater (Standard Equipment) ----- 22.0
 By-pass ----- Internal

RADIATOR

Make & Type ----- Harrison, tube on center
 Core Constant and Thickness
 Distance between fins ----- .18
 Distance between tubes ----- .55
 Thickness of core ----- 1.98
 Frontal Area (Sq In) ----- 439

RADIATOR CAP RELIEF VALVE

Opens at ----- Approx 13 PSI

THERMOSTAT

Make and Type ----- Harrison, Pellet
 Begins to Open ----- 167°-172° F
 Fully Opened ----- 192° F

RADIATOR HOSE

Outlet, Lower (radiator to water pump) ----- 1.88 ID
 Inlet, Upper ----- 1.50 ID

FAN

Number of Blades ----- 5, staggered
 Diameter ----- 18.00
 Fan Pulley Pitch Diameter ----- 7.00
 Drive
 Type ----- Thermo modulated fluid coupling
 Performance ----- At 4000 RPM input, fan speed=
 3200-3500 RPM @ 135°-150° F
 800-1600 RPM @ 120° F and below

BELT, CRANKSHAFT, FAN AND GENERATOR

Number used ----- Two
 Angle of "V" ----- 39-41°
 Pitch Line
 Fan, Gen and Wtr Pump Belt ----- 57.00
 Fan and Wtr Pump Belt ----- 40.00
 Width ----- .380

WATER PUMP

Type ----- Centrifugal
 Capacity ----- 78 GPM @ 5200 RPM
 Bearing ----- Permanently lubricated double-row ball
 Drive ----- Fan belt
 Ratio (pump to engine RPM) ----- .949:1

DRAIN LOCATIONS

Radiator ----- Left side bottom
 Type ----- Petcock
 Engine Block ----- Right and left center
 Type ----- Plug

409 CUBIC INCH V-8 ENGINE - Cont'd.

ELECTRICAL SYSTEM

SUPPLY SYSTEM

BATTERY

Make ----- Delco-Remy
 Voltage Rating ----- 12
 Capacity (SAE) ----- 61 amp hr @ 20 hr rate
 Total Number of Plates ----- 66
 Number of Cells ----- 6
 Terminal Grounded ----- Negative
 Location ----- Right front engine compartment
 near radiator baffle

GENERATOR

Make ----- Delco-Remy
 Type ----- Two brush, shunt wound
 Rating
 Amps ----- 35
 Volts ----- 12-15
 Drive ----- By fan belt
 Pulley Pitch Diameter ----- 2.88
 Ratio (Gen to Engine Speed) ----- 2.30:1

REGULATOR

Make ----- Delco-Remy
 Type ----- Vibrator
 Cutout Relay
 Closing Voltage @ Generator RPM-11.8-13.5@1300
 Voltage Regulator
 Voltage ----- 13.8 - 14.8
 Current Regulator
 Amperes ----- 33 - 37
 Location ----- Left side front engine
 compartment

STARTING SYSTEM

STARTING MOTOR

Make ----- Delco-Remy
 Rotation (drive end view) ----- Clockwise
 Test Conditions ----- Eng at operating temperature
 No Load Test
 Amps ----- 65 - 100
 Volts ----- 10.6
 RPM ----- 3600 - 5100
 Motor Drive
 Engagement ----- Solenoid
 Pinion meshes at ----- Rear
 Pinion tooth no. ----- 9

Flywheel tooth no ----- 168
 Mounting ----- Bolted to clutch housing
 Starting
 Ignition Switch ----- Five (5) positions; Accessory
 Lock, Off, On, Start

Starting Procedure

Synchromesh -- Place gearshift lever in neutral
 and depress clutch pedal to floor
 Powerglide -Place control lever in N or P position
 Initial Start ----- Depress accelerator pedal to
 floor and release. Turn ignition
 switch to START and release as
 soon as engine starts. When tempera-
 ture is below 0°F hold accelerator
 about half way open

IGNITION SYSTEM

COIL

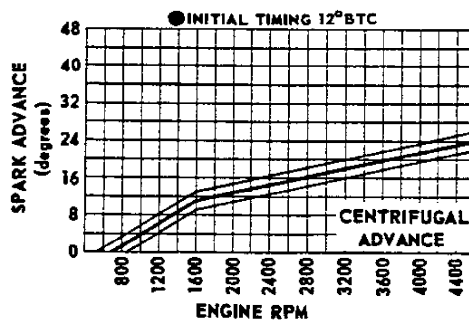
Make ----- Delco-Remy
 Type ----- 12 volt
 Amperes Drawn
 Engine stopped ----- 4.0
 Engine idling ----- 1.8

DISTRIBUTOR

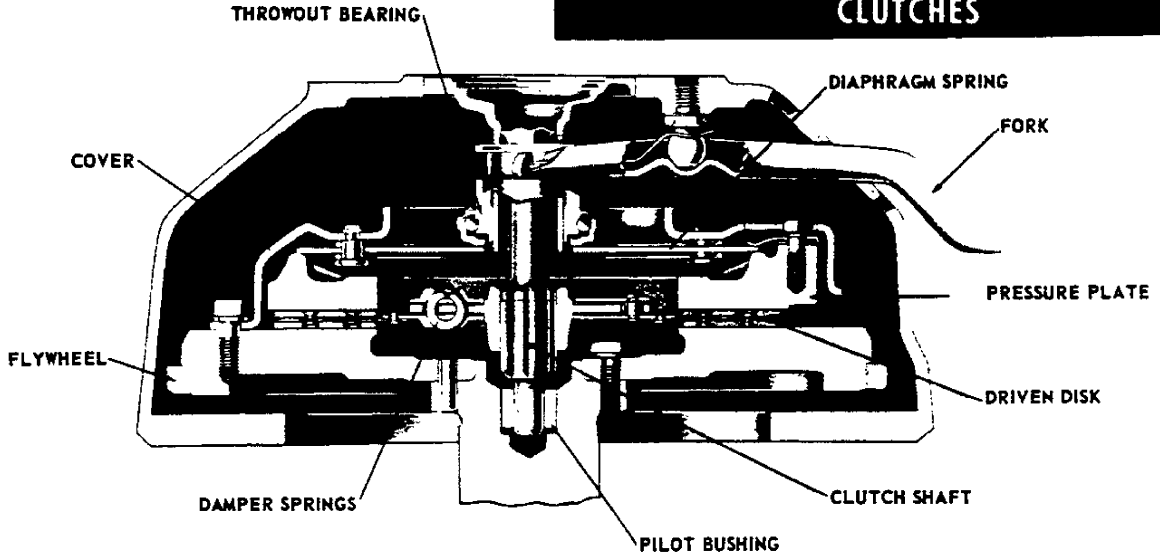
Make ----- Delco-Remy
 Type ----- Dual breaker
 Cam Angle ----- 30°
 Breaker Gap ----- 19-23 oz
 Breaker Arm Tension ----- .019
 Centrifugal Advance Begins (RPM) ----- 600
 Max Degrees @ RPM ----- 24 @ 4600
 Vacuum Advance Begins (In Hg) ----- 8.0
 Max Degrees @ In Hg ----- 15 @ 15.5
 Timing (Initial Design Setting)
 Crankshaft Degrees @ RPM ---12 BTC @ 600 RPM
 Timing Mark Location --- On harmonic balancer

SPARK PLUGS

Make ----- AC 43N
 Thread Size (mm) ----- 14
 Gap ----- .033-.038
 Torque ----- 25 Lb Ft



CLUTCHES



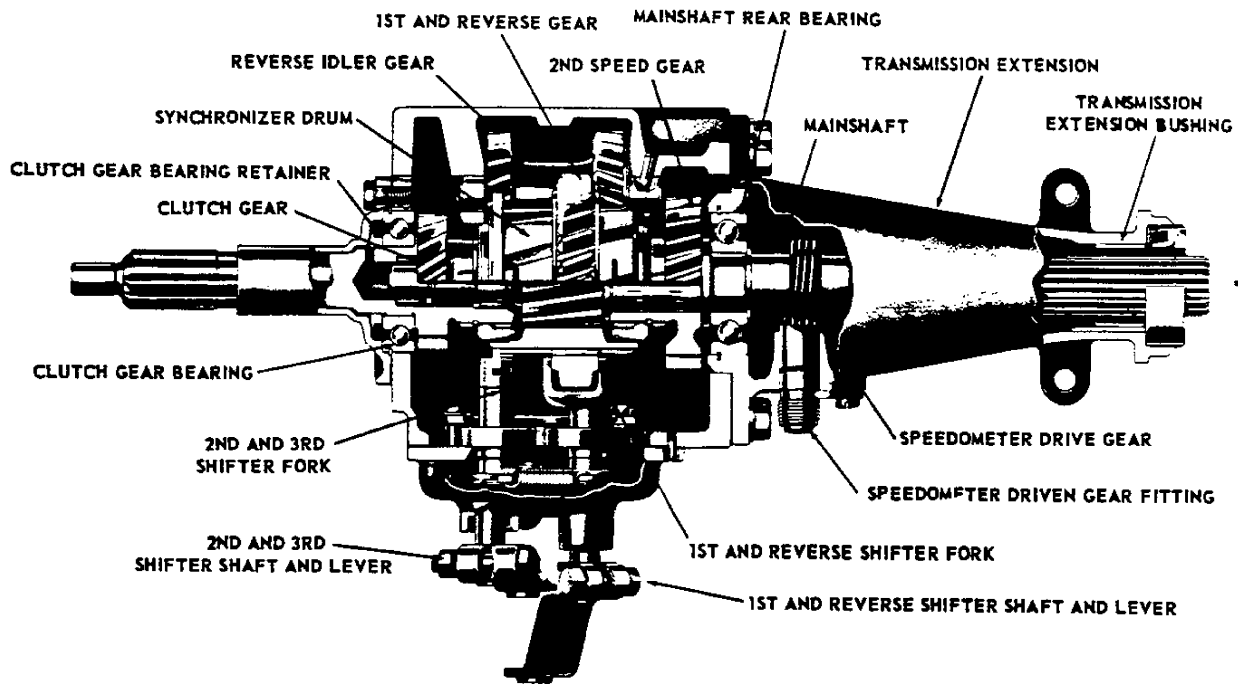
ENGINE	Name		HI-THRIFT 6		TURBO-FIRE V-8						
	Horsepower		135		170		250	300	380	409	
	Displacement (in ³)		235		283		327		409		
Transmission	3-Speed		Standard and Overdrive	Heavy Duty Clutch	3-Speed	Overdrive	3-Speed and 4-Speed		3-Speed and 4-Speed		
	Type						Single plate, dry disk				▲
Drive (cover to pressure plate)			Steel straps				Lug				
Clutch spring	Type		Circular plate diaphragm				12 coil springs				
	Material		Heat treated spring steel								
	Effective plate load (lb)		1600-1775	1900-2100	1700-1875		1900-2100		2100-2380		
	Release		Diaphragm action				Lever action				
Driven plate assembly	Type		Spring cushioned, double faced								
	Dampers		6 Springs				●		○		
	Friction ring	Material		Woven asbestos *				Woven asbestos **			
		OD		9.5	10.0	10.0		10.5			
		ID		6.0	6.0	6.5		6.5			
		Total area (Sq. Inches)		85.22	100.53	90.68		106.81			
Thickness (ea.)		.135									
Bearings	Throw-out		Type		Single row ball						
	Lubrication		Packed with high temperature high viscosity grease								
	Pilot	Material		Sintered powdered bronze bushing							
		OD		1.0935-1.0945							
		ID		.5915-.5925							
		Length		.740-.760							
Lubrication		Oil impregnated									
Controls	Clutch fork type		Drop forged steel, pivot mounted on ball								
	Pedal mounting		Pendent, from brace on dash								
Flywheel assembly	Flywheel		Material		Cast iron alloy						
	Ring gear	Material		.4375 HR Steel							
		Teeth no.		168							
		Depth		.4110-.4160							
		PD		14.00							
Clutch housing material			Cast Iron				Aluminum alloy				
Cover attachment to flywheel			6 3/8-16 Bolts, 1 inch long; shank dia .373-.375								

- * Woven front ring and molded rear ring for HI-THRIFT 6 heavy duty clutches ●
- ** Premium grade
- 6 sets of two concentrically mounted springs

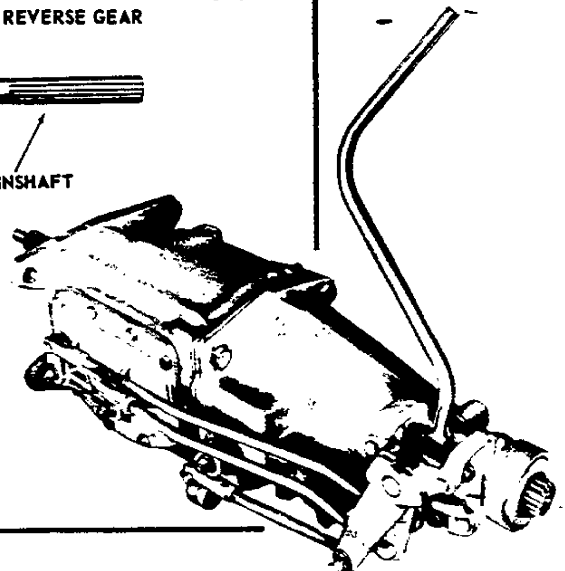
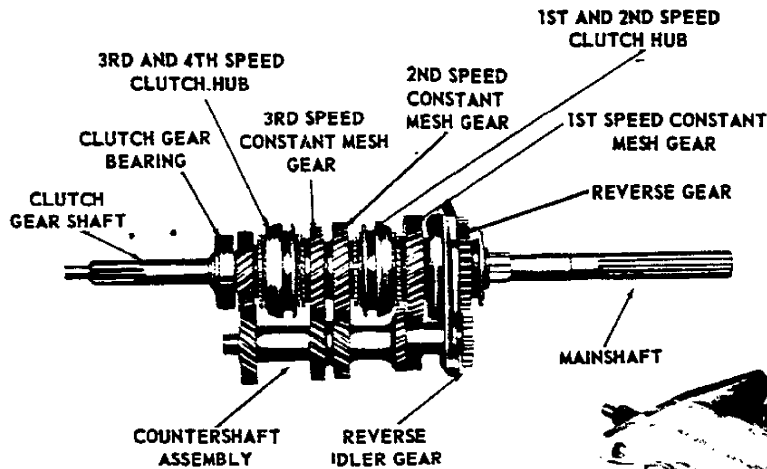
- 5 sets of two concentrically mounted springs
- ▲ Single plate, dry disk, centrifugally assisted

● Revised January 1962 October 1961

TRANSMISSIONS



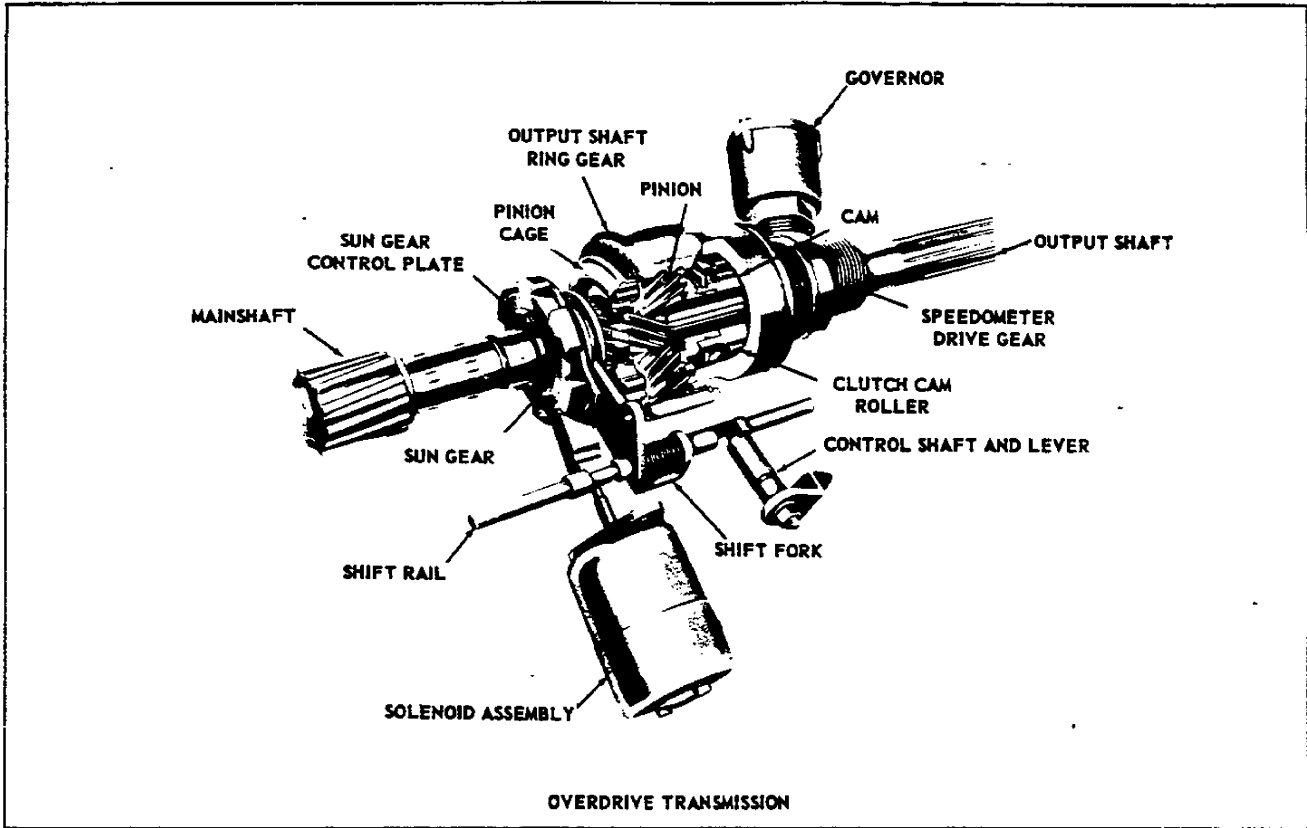
THREE-SPEED TRANSMISSION



FOUR-SPEED TRANSMISSION

Engine	Name	Hi-THRIFT 6				TURBO-FIRE V8					
		Horsepower	135	170	250	300	380	409	250	300	380	409
	Displacement (in ³)	235	283	327		409		327		409	
TRANSMISSION TYPE		THREE SPEED						FOUR SPEED			
Case material		Cast iron						Aluminum			
Gear-shift	Control	Remote									
	Type	Lever									
	Location	Steering column						Floor			
Gears	Type	Helical									
	Material	Forged steel, hardened									
	Synchronization	2nd and 3rd						All forward gears			
	Constant mesh gears	2nd						1st 2nd and 3rd			
	Sliding gears	1st and reverse						Reverse			
	Ratio	First	2.94:1		2.47:1		2.54:1		*2.20:1		
		Second	1.68:1		1.53:1		1.89:1		1.64:1		
Third		1:1		1:1		1.51:1		1.31:1			
Fourth		--		--		1:1		1:1			
Reverse		3.33:1		2.80:1		2.61:1		2.26:1			
Speedometer gears	Normal pitch	28									
	No. of Drive	8									
	Teeth Driven	20									
Lubricant	Type recommended	SAE 90 transmission multi-purpose									
	Capacity (pts)	2						2.5			
Transmission ext. oil seal		Steel encased double seal of spring loaded rubber or felt									

* Optional 2.54 low gear set.



OVERDRIVE UNIT-RPO 315

GENERAL DATA

Type ----- 3-speed synchro-mesh with 3-pinion planetary drive unit. The drive unit with its integral mainshaft replaces the mainshaft and extension of the regular 3-speed transmission.

Lockout Switch ----- Manually controlled by "pull type" cable located under instrument panel to right of steering column. With handle fully extended, overdrive is locked-out.

Kickdown Switch ----- On carburetor, actuated by accelerator pedal.

Cut-in speed (output shaft RPM) ----- 1385

Cut-out speed (output shaft RPM) ----- 975

SPEEDOMETER GEARS

Tooth Pitch ----- 30

Teeth-Drive and Driven ----- 8, 22

LUBRICANT

Type ----- SAE 90 transmission or mineral oil

Capacity

Transmission ----- 2 pints

Overdrive unit ----- 1 pint

Total ----- 3 pints

GEAR RATIOS

Overdrive Unit	Locked Out	Locked In
First	2.94:1	2.058:1
Second	1.68:1	1.176:1
Third	1.00:1	0.700:1
Reverse	3.33:1	

AMA Specifications – Passenger Car

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

MANUFACTURER Chevrolet Motor Division General Motors Corporation	CAR NAME CHEVROLET	
MAILING ADDRESS Chevrolet Engineering Center Box 7346 North End Station, Detroit 2, Mich.	MODEL YEAR 1962	ISSUED: 10-23-61 REVISED (•)

NOTES:

1. The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
2. **UNLESS OTHERWISE INDICATED:**
 - a. Specifications apply to the standard model without optional equipment. Significant deviations are noted.
 - b. Specifications apply basically to 4-door sedan or equivalent.
 - c. Nominal design dimensions are used throughout these specifications.

TABLE OF CONTENTS

General Specifications 1	Drive Units 13	Rear Suspension 19	Body & Car - General 26
Engine - Mechanical 2	Brakes 16	Body Dimensions 20	Weights 27
Electrical 8	Front Suspension & Steering . . 17	Station Wagon 25	Index 28

BODY—TYPES AND STYLE NAMES—		Body type, number of passenger & style names; use manufacturer's code for series & body style.
V-8 Engines -(Part 1 of 2) 283 Cu. In. 170 hp		
Biscayne	1211 1235 1269	2-Door, 6-Passenger Sedan 4-Door, 6-Passenger Station Wagon 4-Door, 6-Passenger Sedan
Bel Air	1611 1635 1637 1645 1669	2-Door, 6-Passenger Sedan 4-Door, 6-Passenger Station Wagon 2-Door, 5-Passenger Sport Coupe 4-Door, 9-Passenger Station Wagon 4-Door, 6-Passenger Sedan
Impala	1835 1839 1845 1847 1867 1869	4-Door, 6-Passenger Station Wagon 4-Door, 6-Passenger Sport Sedan 4-Door, 9-Passenger Station Wagon 2-Door, 5-Passenger Sport Coupe 2-Door, 5-Passenger Convertible 4-Door, 6-Passenger Sedan



AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED(*)

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	1200-1600-1800 (V-8) 170 hp engine
Wheelbase (L-101)	23	119.0
Tread	Front (W-101)	60.3
	Rear (W-102)	59.3
Maximum Overall Dimensions	Length (L-103)	209.6
	Width (W-103)	79.0
	Height (H-101)	55.5 (a)
Transmission— (Specify trade name - opt., not available)	Manual	3-Speed Synchromesh
	Overdrive	Optional
	Automatic	Powerglide (Optional)
Con- ventiona Axle ratio	Manual	3.36:1
	Overdrive	3.70:1
	Automatic	3.36:1
Tire size	16	7.50 x 14-4 pr (8.00 x 14-4 pr Wagons) (b)
Engine	Type, no. cyl., valve arr.	90° V-8, OHV
	Fuel system (Carb., other)	6 Carburetor
	Bore and stroke	2 3.875 x 3.00
	Piston displ., cu.in.	2 283.0
	Std. compression ratio	2 8.5:1
	Max. bhp at engine rpm	2 170 @ 4200
	Max. torque at rpm	2 275 @ 2200

- (a) - 55.0 on convertible.
56.0 on station wagon
- (b) - 1200 Series sedans, 7.00 x 14-4 pr.

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED ^(*)

MODEL 1200-1600-1800 (V-8) 170 hp engine

ENGINE—GENERAL

Type, no. cyls., valve arr.	90° OHV V-8	
Bore and stroke (nominal)	3.875 x 3.00	
Piston displacement, c.u. in.	283	
Bore spacing (C/L to C/L)	4.4	
No. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order	1-8-4-3-6-5-7-2	
Compres. ratio (nominal)	8.5:1	
Cylinder Head Material	Cast Iron	
Cylinder Sleeve—Wet, dry, none	None	
Number of mounting points	Front	Two
	Rear	One
Engine installation angle	5° 11' (a)	
Taxable horsepower	48	Dia. ² x No. Cyl. 2.5
Published max. bhp* @ eng. RPM	170 @ 4200	
Published max. torque* (lb. ft. @ RPM)	275 @ 2200	
Recommended fuel regular - premium	Regular	
Idle speed (spec. neutral or drive)	Manual	425-475 RPM
	Automatic	425-475 RPM (in drive)

ENGINE—PISTONS

Material	Cast aluminum alloy
Description and finish	Flat notched head, slipper skirt
Weight (piston only) oz.	20.30

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

(a) 5° with Powerglide and Overdrive

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-6 REVISED (a)

POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (a)
	Displ. cu. in.	Carburetor	Compr. Ratio	BPH @ RPM	Torque @ RPM		
12-16-1800 V-8	283	2-Bbl D. D.	8.5:1	170 @ 4200	275 @ 2200	3-Speed Overdrive * Powerglide *	3.36:1 3.70:1 3.36:1

(a) - Positraction option available in same ratio; also in 3.55:1, 4.11:1, 4.56:1, 4.88:1, 5.14:1, 5.43:1

* - Optional



.

.

..

.

.

.

.



AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET **MODEL YEAR** 1962 **DATE ISSUED** 10-23-61 **REVISED** _____
MODEL _____ 1200-1600-1800 (V-8) 170 hp engine

ENGINE PISTONS (Cont.)

Clearance (limits)	Top land		.035-.044
	Skirt	Top	.0006-.0010 (a)
		Bottom	
Ring groove depth	No. 1 ring		.2153-.2218
	No. 2 ring		.2153-.2218
	No. 3 ring		.2093-.2158
	No. 4 ring		None

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.		Compression
	No. 2, oil or comp.		Compression
	No. 3, oil or comp.		Oil Control
	No. 4, oil or comp.		None
Compression	Description - material, type, coating, etc.	Cast alloy iron-thick wall, inside bevel or counter-bore, Coating-upper flash chrome plate and lower wear resistant.	
	Width		.0775-.0780
	Gap		.010-.020
Oil	Description - material, type, coating, etc.	Multi-piece - (2 rails and one spacer expander) Spacer - Steel Rails - Stainless steel, chrome plated O. D.	
	Width		.1930-.1950 (assembled)
	Gap		.015-.055
Expanders		In oil ring assembly	

ENGINE—PISTON PINS

Material			Chromium steel
Length			2.990-3.010
Diameter			.9270-.9273
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		None
Direction & amount offset in piston		Major thrust side .060	

ENGINE—CONNECTING RODS

Material			Drop forged steel
Weight (oz.)			20.32
Length (center to center)			5.699-5.701
Bearing	Material & Type	Extra-life steel backed babbitt - removable	
	Overall length		.807
	Clearance (limits)		.0007-.0027
	End play		.008-.014

(a) Measured 2.44" from top of cylinder.

AMA Specifications—Passenger Car

Page 4

MAKE OF CAR CHEVROLET **MODEL YEAR** 1962 **DATE ISSUED** 10-23-61 **REVISED** 3-1-62

MODEL 1200-1600-1800 (V-8) 170 hp engine

ENGINE—CRANKSHAFT

Material		Forged steel	
Vibration damper type		None	
End thrust taken by bearing (No.)		5	
Crankshaft end play		.002 - .006	
Main bearing	Material & type	Extra-life steel backed babbitt - removable	
	Clearance	.0008 - .0034	
	Journal dia. and bearing overall length	No. 1	2.3004 x .752
		No. 2	2.3004 x .752
		No. 3	2.3004 x .752
		No. 4	2.3004 x .752
		No. 5	2.3004 x 1.177
		No. 6	None
No. 7		None	
Dir. & amt. cyl. offset		None	
Crankpin journal diameter		1.999 - 2.000	

ENGINE—CAMSHAFT

Location		In block above crankshaft	
Material		Cast alloy iron	
Bearings	Material	Extra-life steel backed babbitt	
	Number	5	
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		Steel sprocket
	Camshaft gear or sprocket material		Cast alloy iron
	Timing chain	No. of links	46
		Width	.875
Pitch		.500	

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard
Valve rotator, type (intake, exhaust)		None
Rocker ratio		1 1/2:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero
	Exhaust	Zero
Timing marks on flywheel, damper, other		Front pulley hub

(Continued)

Rev. Form 3-59

AMA Specifications—Passenger Car

Page

MAKE OF CAR **CHEVROLET** MODEL YEAR **1962** DATE ISSUED **10-23-61** REVISED **12-1-6**

MODEL **1200-1600-1800 (V-8) 170 hp engine**

ENGINE—VALVE SYSTEM (cont.)

* Timing	Intake	Opens (°BTC)	33°	
		Closes (°ABC)	102°	
		Duration - deg.	315°	
	Exhaust	Opens (°BBC)	72°	
		Closes (°ATC)	50°	
		Duration - deg.	302°	
Valve opening overlap		83°		
Intake	Material		Carbon steel	
	Overall length		4.902-4.922	
	Actual overall head dia.		1-23/32	
	Angle of seat & face		46° and 45°	
	Seat insert material		None	
	Stem diameter		.3410-.3417	
	Stem to guide clearance		.0010-.0027	
	Lift		.333 (Theoretical)	
	Outer spring press. and length	Valve closed (lb. @ in.)	75-90 @ 1-45/64	
		Valve open (lb. @ in.)	150-175 @ 1-3/8	
	Inner spring press. and length	Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	
	Exhaust	Material		High alloy steel
		Overall length		4.913-4.933
		Actual overall head dia.		1-1/2
Angle of seat & face		46° and 45°		
Seat insert material		None		
Stem diameter		.3410-.3417		
Stem to guide clearance		.0015-.0032		
Lift		.333 (Theoretical)		
Outer spring press. and length		Valve closed (lb. @ in.)	75-90 @ 1-45/64	
		Valve open (lb. @ in.)	150-175 @ 1-3/8	
Inner spring press. and length		Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	

ENGINE—LUBRICATION SYSTEM

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

* - Including cam ramps

(Continued)

Rev. Form 3-59

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED 3-1-62

MODEL _____ 1200-1600-1800 (V-8) 170 hp engine

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type		Gear
Normal oil pressure (lb. @ engine rpm)		● 40 psi @ 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)		Element
Capacity of crankcase, less filter-refill (qt.)		4.0
Oil grade recommended (SAE viscosity and temperature range)		32° F and above - SAE 20W, SAE 20 or SAE 10W-30 0° F and above - SAE 10W, or SAE 10W-30 0° F and below - SAE 5W, or SAE 5W-20
Engine Service Requirement (MM, MS, etc.)		MS or DG

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
Exhaust pipe dia. (O.D. wall thickness)	Branch	2 x 5/64
	Main	2 x 1/16
Tail pipe diameter (O.D. & wall thickness)		1-7/8 x 1/16

ENGINE—FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.		Carburetor, 2-Bbl. Downdraft	
Fuel Tank	Capacity (gals.)	20; 19 on station wagons	
	Filler location	Left rear quarter panel	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	Lower right front corner of engine	
	Pressure range	5.25-6.50 PSI	
Vacuum booster (std., optional, none)		None	
Fuel Filter	Type	Fine mesh plastic strainer in gasoline tank and sintered bronze filter in carburetor	
	Locations		
Carburetor	Make & Model No.	3-Speed; Rochester 7020007 Powerglide; Rochester 7020008	
	Number of carbs., bbls. per carb. & type	One - 2-Bbl	
	Barrel size	1-7/16	
	Choke type	Automatic	
	Intake manifold heat control (exhaust or water)	Exhaust	
	Air clnr. type	Standard	Paper element
		Optional	None

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED 12-1-6
 MODEL _____ 170 hp engine
 _____ 1200-1600-1800 (V-8)

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Positive shift solenoid	
	Pinion meshes (front, rear)		Rear	
	Number of teeth	Pinion		9
		Flywheel		168
	Flywheel tooth face width		.4135	

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco-Remy	
	Model		1115115	
	Amps	Engine stopped		4.0
Engine idling			1.8	
Distributor	Make		Delco-Remy	
	Model		1110947	
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)		600
		Intermediate points deg. @ rpm		12 @ 1500
		Max deg. @ rpm		26 @ 3750
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)		8.0
		Intermediate points, deg @ in Hg		
		Max. deg. in. Hg.		15 @ 15.5
		Breaker gap (in.)		.019
		Cam angle (deg.)		26-33
	Breaker arm tension (oz.)		19-23	
Timing	Crankshaft deg. @ rpm.	●	4° to 8° BTC @ 550	
	Mark location		Front pulley hub	
	Cylinder numbering system (see page 2)			Left Bank 1-3-5-7
				Right Bank 2-4-6-8
	Firing order (see page 2)		1-8-4-3-6-5-7-2	
Spark Plug	Make and model		AC 46	
	Thread (mm)		14	
	Tightening torque (lb. ft.)		25	
	Gap		.033-.040	
Cable	Conductor type	Linen core impregnated with electrical conducting material		
	Insulation type	Rubber with neoprene jacket		
	Spark plug protector	Hypalon jacket		

ELECTRICAL—SUPPRESSION

Locations & type	Non-Metallic High Tension Cables
------------------	----------------------------------

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED 12-1
 MODEL 170 hp engine
1200-1600-1800 (V-8)

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator—type		Tell-tale light
Temperature indicator—type		Tell-tale lights (Cold: Green; Hot: Red)
Oil pressure indicator—type		Tell-tale light
Fuel indicator—type		Gauge
Other		Parking brake tell-tale light
Ignition switch	Identify positions in order and circuits controlled	50° Counterclockwise from vertical - "Accessory" - accessories 25° 30' Counterclockwise from vertical - "Lock" Vertical - "Off, " unlocked 40° Clockwise from vertical - "On" ign., batt., accessories 72° Clockwise from vertical - "Start," ign., batt., starter spring return to "On" position.
	Provision for illumination	Lamp in lock housing
	Location	On instrument panel right of steering column
Main lighting switch	Identify positions and lamps controlled	Depressed - Off 1st notch - Instrument panel, parking, tail and license lights 2nd notch - Instrument panel, head, tail and license lights Rotate knob clockwise to dim and turn off instrument panel light Rotate knob counterclockwise to turn on and brighten instrument panel lights and turn on dome light
Other light switches	Locations and lamps controlled	Toe panel Glove compartment Front door hinge pillar On steering column Under instrument panel Steering mast jacket Headlight dimmer Glove comp. lamp (e) Dome lamp (a) Turn signal lamps Stop lamps Back up lamps (b)
Other switches	Locations and devices controlled	Accelerator linkage Instrument panel, rt of steer. col. L. H. Door and qtr. trim panels Front seat lower panel, L. H. side Instrument panel center Instrument panel, left of steer. col. Inst. panel, left of steer. col. Overdrive kickdown (d) Heater blower Power windows (d) Power seat (d) Radio (d) W/S wiper Tailgate window (d)
Windshield wiper	Make	Delco
	Type	Electric, single-speed (c)
	Vacuum booster provision	None
	Washer provision	Dealer installed accessory, push-button
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	8.0-11.0 @ 12.5 volts

- (a) Except I200 series
- (b) Standard equipment on 1800 models.
- (c) Optional two-speed (washer included)
- (d) Optional
- (e) Standard equipment on 1600-1800 models.

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED 12-1-
170 hp/engine
 MODEL 1200-1600-1800 (V-8)

ELECTRICAL—LAMP BULBS

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

Headlamps & arrangement	Horizontal 2-4001 (inner) 2-4002 (outer)	
Headlamp beam indicator	1-57	
Parking	2-1034 (4 cp filaments)	
Tail	2 or 4-1034 (4 cp filaments) (If tail only, 2-67) ‡	
Stop	2 or 4-32 cp filaments of tail light bulbs ‡	
Direction signal	Front	2-32 cp filaments of parking light bulbs
	Rear	2 or 4-32 cp filaments of tail light bulbs ‡
	Indicator	2-53
License plate	1-67	
Instrument	--	
Ignition lock	1-53	
Back up	2-1073 (standard equipment on 1800 series, acc. on 12-1600 series)	
Dome	1800 Sport coupe & sport sedan; 2-90; balance exc 1800 conv: 1-90	
Clock	1-57 (standard equipment on 1800 series, acc. on 12-1600 series)	
Radio	1-57x *	
Glove compartment	1-57 (standard equipment on 1600-1800 series, acc. on 1200 series)	
Gen indicator	1-57	
Oil press ind.	1-57	
Third seat		
courtesy	1-90 (9-Passenger wagon only)	
Park brake		
alarm	1-257 (standard equipment on 1800 series, acc. on 12-1600 series)	
Heater	1-53	
Tran. ind.	1-53 *	
Courtesy lamps	2-89 (1800 sport coupe and convertible and Impala Super Sport Models (
Tem. ind. & Hsg	3-57	
Underhood	1-93 (Std. on 1800 coupes & sedans, acc. on 12-1600 cps	
Luggage comp't.	1-93 (Standard on 1800 except wagons) ● and s	
Air cond.		
controls	1-53 *	
Speedo. head	3-57	
Compass	1-53 *	
Fuel gauge	1-57	
Tach.	1-53 *	
Spotlamp (in-		
side control)	1-4405 *	
Traffic hazard		
flasher	1-53 *	

Rev. Form 3-59

‡ - 1200 Series - 2 tail, stop and turn
 1600 Series - 2 tail, stop and turn, and 2 tail only
 1800 Series - 4 tail, stop and turn

● - Additional lamp at rear of front seat center console on Impala Super Sport models.

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED _____
170 hp engine
 MODEL _____ 1200-1600-1800 (V-8)

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	15 CB (a)
Headlamp beam indicator	(a)
Parking lamp	(a)
Tail lamp	AGC 15 (b)
Stop lamp	(b)
Direction indicator	Flasher
License plate lamp	(b)
Instrument lamp	---
Ignition lamp	AGC 3 (c)
Back up lamp	AGC 10 (d)
Dome lamp	(b)
Clock	(b)
Clock lamp	(c)
Radio	Receiver (including lamp) - AGC 4 (e)
Glove compartment lamp	(b)
Park, br. alarm	(d)
Heater	(d)
Overdrive	AGC 15 (f)
Underhood light	SAE 9 (G)
Luggage compt. light	(b)
A/C (incl. heater)	SAE 20 (H)
A/C Blow. Motor	SAE 20 (J)
Cool Pak	SAE 20 (H)
Cool Pak Blo Mtr.	SAE 20 (K)

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	25.5
		Highest	25.5
	Stop		25.5
	Backup		25.5
	License, rear		25.5
	Directional	Front	23.0
		Rear	25.5
	Headlamp	Inside	27.0
		Outside*	27.0
	Distance from C/L of car to center of bulb	Tail	Inside	24.0
Outside			31.0
Stop			31.0
Backup			24.0
License, rear			On center line
Directional		Front	28.0
		Rear	31.0
Headlamp		Inside	24.7
		Outside*	31.2

* If single headlamps are used enter here.

AMA Specifications -- Passenger Car

Supplement to Page 12

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED _____

SUPPLEMENTARY INFORMATION

MODEL

170 hp engine
1200-1600-1800 (V-8)

ELECTRICAL - FUSE AND CIRCUIT BREAKER DATA (Contd.)

Spotlamp (inside operated	AGC 15 (L)
Courtesy lamps	(b)
A/C Controls lamp	(c)
Heater Controls lamps	(c)
Compass, Fuel Gauge, Speedo Head, Tach., and Tempgage lamps	(c)
Traffic Hazard lamp	(b)
W/S Wiper Motor (single speed)	SAE 20 (M)
W/S Wiper Motor (two-speed (Also 14CB)	(M) (N)
Hydraulic folding top	40 CB (S)
Power seats	40 CB (P)
Power windows	40 CB (Q)
Tailgate window	40 CB (R)



4

5

6

7



AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET **MODEL YEAR** 1962 **DATE ISSUED** 10-23-61 **REVISED (a)**
MODEL 12-16-1800 3-Speed 170 hp engine Overdrive

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Chevrolet, single plate, dry disk		
Type pressure plate springs	Diaphragm		
Effective plate pressure (lb.)	1700-1875		
No. of clutch driven discs	One with two facings		
Clutch facing	Material	Woven asbestos	
	Outside & inside dia.	10.0, 6.0	10.0, 6.5
	Total eff. area (sq.in.)	100.53	90.68
	Thickness	.135	
	Engagement cushioning method	Springs	
Release bearing	Type & method of lubrication	Ball brg, sealed	
Torsional damping	Methods: springs, friction material	None	

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Standard
Manual with overdrive (std. or opt.)	Optional
Automatic (std. or opt.)	Optional

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds	Three		
Transmission ratios	In first	2.94:1	
	In second	1.68:1	
	In third	1.0:1.0	
	In fourth	--	
	In reverse	3.33:1	
Synchronous meshing, specify gears	2nd and 3rd		
Shift lever location	Steering column		
Lubricant	Capacity (pt.)	2.0 3.0	
	Type recommended	Multi-purpose gear lubricant	
	SAE viscosity number	Summer	SAE-90
		Winter	SAE-90
Extreme cold		SAE-80	

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED _____
 MODEL _____ 170 hp engine
 12-16-1800 (V-8)

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)		Planetary	
	Manual lockout (yes, no)		Yes	
	Downshift accelerator control (yes, no)		Yes	
	Minimum cut-in speed		27 mph.	
	Gear ratio		0.70:1	
	Lu- bri- cant	Capacity (pt.) (Overdrive only)		1
		Separate filler (yes, no)		No
		Type recommended		SAE gear lubricant
		SAE vis- cosity number	Summer	SAE-90
			Winter	SAE-90
Ext. cold	SAE-80			

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		P-R-N-D-L
List gear ratios Selector Pattern and indicate which are used in each selector position		Drive 1.82 and 1.0:1 (a) Low 1.82:1 Reverse 1.82:1
Max. upshift speeds—drive range		55
Max. kickdown speeds—drive range		50
Torque converter	Number of elements	3
	Max. ratio at stall	2.1:1
	Type of cooling (air, water)	Water
Lubricant	Capacity—refill (pt.)	9
	Type recommended	"A" suffix "A"
Special transmission features		

(a) - Total torque reduction - 3.82:1

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED ^(*)

MODEL _____ 170 hp engine
12-16-1800 (V-8)

DRIVE UNITS—PROPELLER SHAFT

Number used		Two	
Type (exposed, torque tube)		Exposed	
Outer diameter x length* x wall thickness	Manual transmission	Front - 2.003 x 30.12 x .097	Rear - 2.003 x 35.00 x .097
	Overdrive transmission	Front - 2.003 x 24.97 x .097	Rear - 2.003 x 35.00 x .097
	Automatic transmission	Front - 2.003 x 24.03 x .097	Rear - 2.003 x 35.00 x .097
Intermediate bearing	Type (plain, anti-friction)	Anti-friction	
	Lubrication (fitting, prepack)	Prepack	
Universal joints	Make	Chevrolet	
	Number used	3	
	Type (ball and trunnion, cross, other)	Yoke and Spider (Trunnion)	
	Bearing	Type (plain, anti-friction)	Anti-friction
Lubric. (fitting, prepack)		Prepack	
Drive taken through (torque tube or arms, springs)		Upper and lower control arms	
Torque taken through (torque tube or arms, springs)		Upper and lower control arms	

DRIVE UNITS—REAR AXLE

Description - (Incl. limited slip differential)		Standard axle-semi floating, overhung pinion gear optional "positraction" axle-semi-floating, overhung pinion gear Spicer limited slip with dual 4-disk clutches.		
Drive Pinion Offset		1.5		
No. of differential pinions		2 (a)		
Gear ratio and No. of teeth	Manual transmission	3.36:1 (11-37) (b)		
	Overdrive transmission	3.70:1 (10-37) (b)		
	Automatic transmission	3.36:1 (11-37) (b)		
Ring gear pitch diameter & O.D.		8.375 PD and OD		
Pinion adjustment (shim, other)		Shim		
Pinion bearing adj. (shim, other)		None		
Wheel bearing type		Ball		
Lubricant	Capacity (pt.)	4		
	Type recommended	Hypoid or multi-purpose lubricant		
	SAE viscosity number	Summer	SAE-90	
		Winter	SAE-90	
Extreme cold		SAE-90		

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

(a) - 4 pinions in positraction axle.

(b) - See page 2A for limited slip axle availability.

AMA Specifications – Passenger Car

Page 16

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED (a) 3-1-62
 MODEL _____ 170-hp engine
 _____ 1200-1600-1800 (V-8)

DRIVE UNITS—WHEELS

Type & material		Short spoke disk pressed steel
Rim (size and flange type)		14 x 5J (a)
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.75
	Number and size	5 - 7/16-20 Hex nuts

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	7.00x14-4 pr (c)(f)	7.50 x 14-4 pr (f)	7.00 x 14-4 pr (b)
	Type - Nylon, etc.	Rayon tubeless, blackwall		
Rev/mile at 30 mph.		815	798	774
Inflation press (cold)	Front	24-26		
	Rear	24-26 (d)		

BRAKES—SERVICE

Type (duo-servo, balanced, self adjusting, etc.)		Duo-servo, 4 wheel hydraulic			
Power brake make & type (conete, integral, etc.)		Bendix and Moraine-vacuum power unit with reg. prod. master cyl.			
		Standard	RPO 686 (e)		
Effective area (sq. in.)*		185.6	134.0 •		
Gross lining area (sq. in.)**		199.5	134.0 •		
Swept drum area (sq. in.)***		338.1	327.6		
Percent brake effectiveness—front		58.5			
Drum	Diameter	11			
	Front	11			
		11			
Type and material		Composite - Cast alloy iron rim, pressed steel web			
Bonded or riveted		Bonded	Welded		
Brake lining	Front Shoe	Material	Full molded asbestos		
		Size (length x width x thickness)	Front wheel	9.30 x 2.75 x .168	
			Rear wheel	9.30 x 2.00 x .168	
	Segments per shoe	One		6	
	Rear Shoe	Material	Full molded asbestos		Sintered iron
		Size (length x width x thickness)	Front wheel	11.70 x 2.75 x .168	2.0 x 1.0 x .210
Rear wheel			11.70 x 2.00 x .168	2.0 x 1.0 x .330	
Segments per shoe	One				
Wheel cyl- inder bore	Front	1.1875			
	Rear	1.00			
Master cylinder bore		1.00			
Available pedal travel		6.38			
Line pressure at 100 lb. pedal load		750			
Shoe clearance adjustment		Adjust to light drag and back off 12 notches			

* 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.

Form Rev. 6-60

- (a) 14 x 6.0JK on all station wagons.
- (b) Station wagons.
- (c) 1200 Series sedans
- (d) 28 psi on 6- and 9-pass. station wagons. •
- (e) Metallic brake option
- (f) 2-ply construction; 4-ply rating

AMA Specifications—Passenger Car

Page 17

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED _____
 MODEL _____ 170 hp engine
12-16-1800 (V-8)

BRAKES—PARKING

Type of control		Apply - pendulum foot pedal; release - T-handle
Location of control		Foot pedal - underdash; T-handle - on instrument panel (a)
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	All welded "X" frame with box girder side rails, box section front suspension crossmember, "Z" section intermediate crossmember, channel section rear crossmember and reinforced box girder center beam. Special crossmember for rear suspension upper control mounting.
----------------------	--

SUSPENSION—GENERAL (See Supplemental page 17 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		Geometry of rear suspension
Special provisions for car jacking		None
Shock absorber front & rear	Type	Direct, double acting
	Make	Delco
	Piston dia.	1.00
Other special features		---

SUSPENSION—FRONT

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

(Continued) Rev. Form 3-59

(a) Left of steering column

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

AMA Specifications - Passenger Cars

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED 3-1-62
 MODEL _____ 170 hp/engine
1200-1600-1800 (V-8)

SUSPENSION FRONT (cont.)

Spring	Type		Coil
	Material		High alloy steel
	Size (coil design height & I.D.; bar length x dia.)		10.50 x 3.802 x 141.3 x .630 @
	Spring rate (lb. per in.)		275
	Rate at wheel (lb. per in.)		91 •
	Design load (lb. @ design height)		1855 @ 10.50
Stabilizer	Type (link, linkless, frameless)		Link
	Material & bar diameter		HR steel, 0.6875

STEERING

Mechanical (std., opt., NA)			Standard	
Power (std., opt., NA)			Optional	
Wheel diameter			17.00	
Turning diameter	Outside front	Wall to wall (l. & r.)	44.1	
		Curb to curb (l. & r.)	40.8	
	Inside rear	Wall to wall (l. & r.)	24.2	
		Curb to curb (l. & r.)	24.5	
Outside wheel angle with inside wheel at 20°			17° 54'	
Mechanical	Gear	Type	Semi-reversible, recirculating ball	
		Make	Saginaw	
		Ratios	Gear	24.0:1
			Overall	28.0:1
	No. wheel turns		5.80 (lock to lock) •	
Power	Type (coaxial, linkage, etc.)		Hydraulic, power cylinder in linkage	
	Make		Saginaw	
	Trade name		Power-touch	
	Gear	Type	Semi-reversible, recirculating ball	
		Ratios	Gear	20.0:1
			Overall	24.0:1
	Pump driven by		Crankshaft pulley	
	Number wheel turns		4.83 (lock to lock) •	
Linkage	Type		Relay	
	Location (front or rear of wheels, other)		Front	
	Drag link (trans. or longit.)		None	
	Tie rods (one or two)		Two	

@ - Sedans and coupes, manual transmission

(Continued)

Rev. Form 3-59

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET **MODEL YEAR** 1962 **DATE: ISSUED** 10-23-61 **REVISED** 3-1-62
MODEL 170 hp engine
1200-1600-1800 (V-8)

STEERING (cont.)

Steering Axis	Inclination at camber (deg.)		7° 11'
	Bearings (type)	Upper	Spherical joint, non-metallic bearing liner
		Lower	Spherical joint, non-metallic bearing liner
	Thrust		(a)
Wheel alignment (range and preferred)	Caster (deg.)		0° ± 30' (curb) ●
	Camber (deg.)		30' ± 30' (curb) ●
	Toe-in (outside tread-inches)		1/16 - 3/16 (overall, as shipped)
Steering spindle & joint type			Forged steel w/integral brake cyl. mount, detach. strg. arm
Wheel spindle	Diameter	Inner bearing	1.2490-1.2495
		Outer bearing	.7490-.7495
	Thread size		3/4-20
	Bearing type		Tapered roller

SUSPENSION—REAR

Type and description			4-link (b)	
Drive and torq. taken through (see page 15)			Upper and lower control arms	
Spring	Type		Coil	
	Material		High alloy steel	
	Size (length x width, coil design height and I.D.; bar length & dia.)		9.88 x 3.63 x 139.25 x .583	
	Spring rate (lb. per in.)		230	
	Rate at wheel (lb. per in.)		107 ●	
	Design load (lb. at design height)		1560 @ 9.88	
	Mounting insulation type		None	
	If leaf	No. of leaves		--
		Inserts	Type and size	--
			Material	--
Shackle (comp. or tens.)		--		
Stabilizer	Type (link, linkless, frameless)		--	
	Material		--	
Track bar type			Lateral, frame to rear axle	

- (a) Vehicle load carried on lower spherical joints, no auxiliary bearings required for steering motion. Rev. Form 3-59
- (b) Upper control arm, lateral control bar, two lower control arms and coil springs.

AMA Specifications – Passenger Car

Page 20

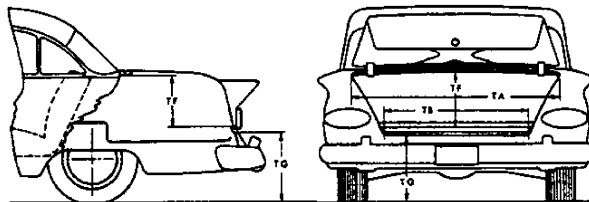
MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED _____

BODY—GENERAL DEFINITIONS

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

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

BODY—TRUNK DIMENSIONS



MODEL	SEDANS	COUPES	CONVERTIBLE	STATION WAGON
Usable trunk luggage capacity (See Section E-1 of SAE Automotive Drawing Standards)		19.0		----
Total trunk volume in cu. ft. with spare tire in place		29.7 (a)		97.5 (b)(c)
TA—Width across the top		54.0		54.2
TB—Width across the bottom		54.0		56.4
TF—Vertical dimension at C/L from bottom to top of opening		23.0		30.4
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal - loaded)		21.9		23.0
Position of spare tire stowage	Horizontal on trunk forward shelf, left side			Behind access panel in right rear quarter
Method of holding lid open	Torsion bars, counterbalanced			----

(a) 28.2 on convertible with top down.

(b) Includes 10.5 cu. ft. in hidden stowage compartment.

(c) Total 92.7 on 9-passenger wagon (includes 5.7 cu. ft. in hidden compartment).

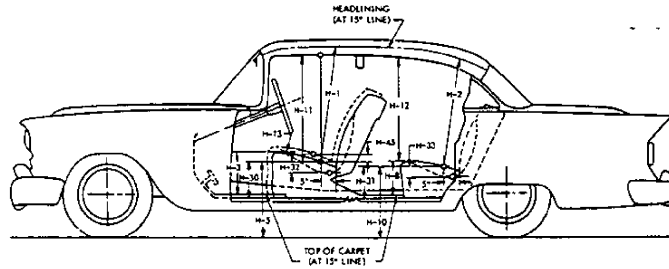
(d) Horizontal on trunk side shelf, right side

Rev. Form 3-59

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-6 REVISED _____

BODY—HEIGHT DIMENSIONS—INTERIOR



MODEL *	SEDANS	COUPES	CONVERTIBLE	STATION WAGON
H1. Front headroom. Free "A" pt. to headlining at 8° back of vertical. (For "A" pt. see note 3, page 20)	39.0	38.5		39.0
H2. Rear headroom. Free "A" pt. to headlining at 8° back of vertical	38.0			40.0 (a)
H3. Front cushion height above floor carpet at front edge of cushion. (Ignore risers)	11.0			
H5. Free "A" pt. to ground, front. Measured vertically	20.0			
H8. Rear cushion height above floor carpet at front edge of cushion. (Ignore risers)	14.0	13.0	13.5	14.0 (b)
H10. Free "A" point to ground rear. Measured vertically	19.5	18.5		19.5 (c)
H11. Entrance, front. Free "A" point to bottom of windcord, vertical	30.0		28.0	30.0
H12. Entrance, rear. Top of cushion to bottom of windcord at front edge of rear seat	29.5	--	--	30.5
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance)	5.0			
H30. Free "A" point reference height, front. Vertical dimension to SAE horizontal reference line	6.0			
H31. Free "A" point reference height, rear. Vertical dimension to SAE horizontal reference line	8.0	6.5		8.0
H32. Front seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	4.5			
H33. Rear seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	4.0	4.5 (d)		
H45. Front seat maximum vertical rise at free "A" point	.8			

(a) 37.0 on 9-Pass. 3rd seat
(c) 22.0 on 9-Pass. 3rd seat

(b) 15.5 on 9-Pass. 3rd seat
(d) 4.0 on 9-Pass. 3rd seat

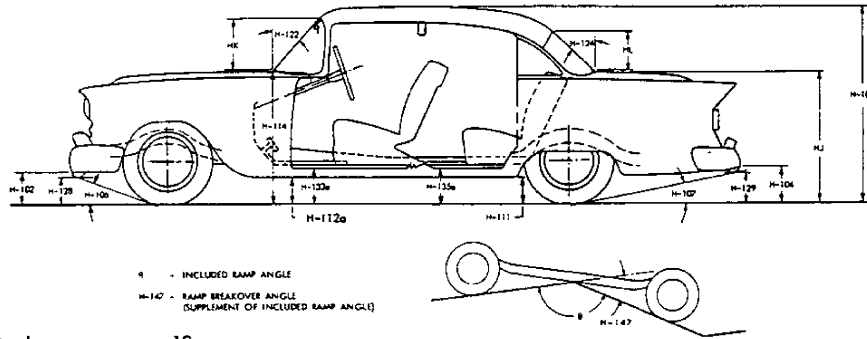
Rev. Form 3-59

NOTE: Torso room, a depressed dimension, is reported for H1 and H2 dimensions. Free "A" point and depressed "A" point dimensions are replaced with applicable "H" and "D" point dimensions.

AMA Specifications— Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED (a)

BODY—HEIGHT DIMENSIONS—EXTERIOR



NOTE: For dimensions to lamps see page 12.

MODEL	Sedans	Coupes	Convertible	Station Wagon
H101. Overall height, full design load	55.5	55.0	55.0	56.0
HB. Overall height, curb weight	57.5	57.0	57.0	58.0
H102. Front bumper bottom to ground at normal section, min. height	—	—	—	—
H104. Rear bumper bottom to ground at normal section, min. height	—	—	—	—
H106. Angle of approach. To interfering point on bumper, guard, other	—	27°	—	—
H107. Angle of departure. To interfering point on bumper, guard, other	—	13°	—	—
H111. Body Sill to Ground-Rear. Vertical dimension measured from bottom of body sill (rocker panel), excluding any flanges, to ground at front of rear wheel opening.	—	8.0	—	—
H112a. Body Sill to Ground-Front. Measured vertically at foremost point of body sill (rocker panel), excluding flanges and front fender.	—	8.5	—	—
H114. Hood at rear to ground. Vertical dimension C/L, excluding molding, at hood opening line at cowl	—	39.0	—	—
H122. Windshield normal slope angle to vertical line on car C/L	57.3°	—	54.7°	57.3°
H124. Backlight normal slope angle to vertical line on car C/L	47°	61°	57°	27°
H128. Bottom of front bumper guard to ground (a)	13.0	—	13.5	14.0
H129. Bottom of rear bumper guard to ground (a)	13.5	—	14.0	14.5
H133a. Bottom of front door to ground, min. dimension	—	—	11.5	—
H135a. Bottom of rear door to ground, min. dimension	11.5	—	—	11.5
H147. Ramp breakover angle	—	—	11.0°	—
H153. Min. road clearance at rear axle	—	—	7.5	—
H156. Min. road clearance and location	—	—	6.5 @ muffler	—
HJ. Deck at rear window to ground	—	—	35.5	—
HK. Windshield DLO*. Vertical height at C/L	—	—	15.2	—
HL. Back light DLO*. Vertical height at C/L	13.0	15.0	—	15.0

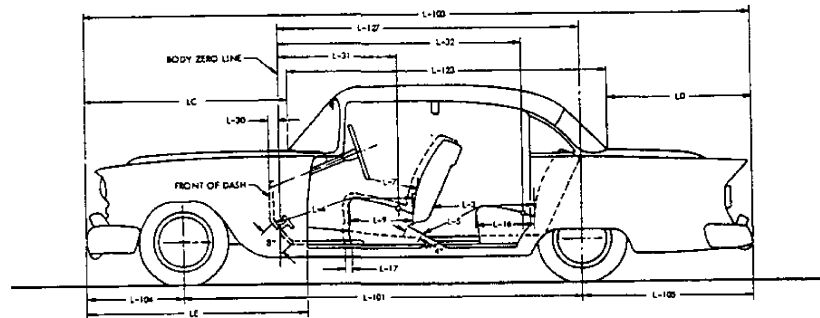
* See Note, page 20

(a) Guard integral with bumper

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE: ISSUED 10-23-61 REVISED _____

BODY—LENGTH DIMENSIONS



MODEL	SEDANS	COUPES	CONVERTIBLE	STATION WAGON
Interior	L3. Rear compartment room. Back of front seat back to front of rear seat back			
	28.5	26.0		28.5
	L4. Leg room, front. Ball of foot to top of seat to seat back			
	45.0	44.5		45.0
	L5. Leg room, rear. Ball of foot to top of seat to seat back			
	42.0	39.0		42.0 (a)
	L7. Steering wheel clearance to seat back taken on arc			
				16.0
	L9. Front seat depth. Front edge to vert. tan. of seat back			
				18.5
L16. Rear seat depth. Front edge to vert. tan. of seat back				
18.0	18.5 (b)			
L17. Maximum "A" point horizontal travel with normal seat adjustment				
			4.5	
L30. Vertical body zero line to actual front of dash. Measured horizontally*				
			.5	
L31. Vertical body zero line to free "A" point, front				
			42.0	
L32. Vertical body zero line to free "A" point, rear				
77.5	75.0		77.5	
Exterior	L101. Wheelbase			
				119.0
	L103. Overall length. Incl. bumper guards if standard equipment			
				209.6
	L104. Overhang, front. Include bumper guards if stand. eq.			
				32.7
	L105. Overhang, rear. Include bumper guards if stand. eq.			
				57.9
	L123a. Body upper structure length at C/L, excl. molding			
	102.6	101.6	105.2	140.7
L127. Vertical body zero line to centerline of rear wheels				
			100.0	
LC. Front of car to base windshield, excl. molding				
			57.3	
LD. Rear of car to base of rear window or upper structure, excl. molding				
49.4	50.6	50.0	11.6	
LE. Front of car to front edge of front door				
			67.7	

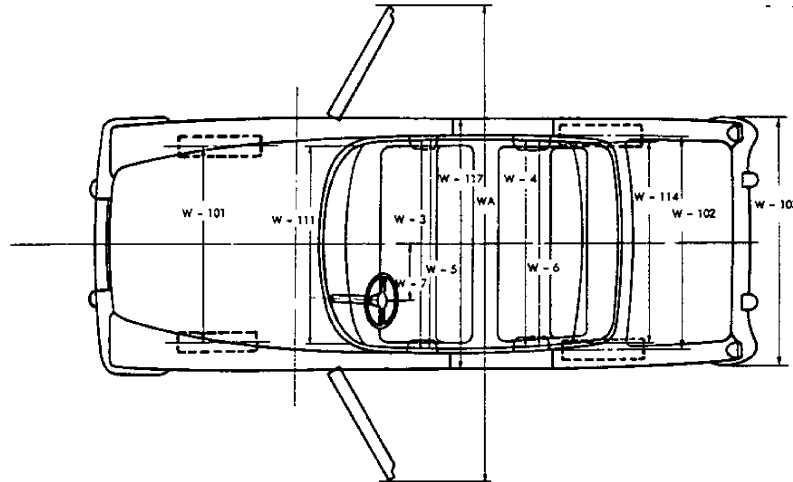
* Precede figure with minus sign if front of dash is to rear of body zero line.

(a) 57.0 on 9-passenger station wagon.
 (b) 17.5 on 9-passenger station wagon.

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE: ISSUED 10-23-61 REVISED (*)

BODY—WIDTH DIMENSIONS



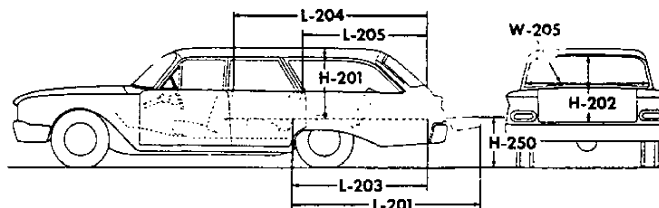
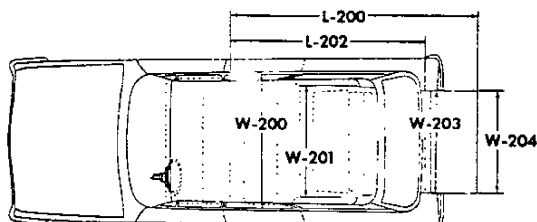
MODEL		SEDANS	COUPES	CONVERTIBLE	STATION WAGON
Interior	W3. Front shoulder room, at garnish molding height or nearest interference 5" forward of seat back	59.0			
	W4. Rear shoulder room, at garnish molding height or nearest interference 5" forward of seat back	58.0	57.0	51.0	58.0 (a)
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back	63.5			
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back	63.5	55.0	52.0	63.5 (b)
	W7. Steering wheel center (on surface plane of wheel) to C/L of body	15.9			
Exterior	W101. Front tread at ground	60.3			
	W102. Rear tread at ground	59.3			
	W103. Max. overall width of car incl. bumpers or moldings (specify location).	79.0			
	WA. Max. overall width of car with doors open (2 & 4 door)	140.6	158.1		140.6
	W111. Windshield DLO, max. width	61.2			
	W114. Back window DLO, max. width	61.4	59.1	53.3	
	W116a. Maximum overall sheet metal width excl. hardware and applied molding (specify location)	76.0			
W117. Max. body width at center pillar, less hardware and applied moldings	76.0				

(a) 55.0 on 9-passenger station wagon.
 (b) 46.0 on 9-passenger station wagon.

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE: ISSUED 10-23-61 REVISED(6)

STATION WAGON—CARGO SPACE DIMENSIONS



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

MODEL	6-PASSENGER	9-PASSENGER
L200 Floor length from back of front seat at floor level to end of lowered tail gate		118.5
L201 Floor length from back of second seat at floor level to end of lowered tail gate		84.5
L202 Floor length from back of front seat at floor level to inside of closed tail gate		94.0
L203 Floor length from back of second seat at floor level to inside of closed tail gate		60.0
L204 Minimum horizontal distance from top rear of front seat back to inside of top of tail gate		82.5
L205 Minimum horizontal distance from top rear of second seat back to inside of top tail gate		47.0
W200a Maximum width of cargo space at floor, specify location	62.0 Forward of wheelhouse	
W201 Minimum distance between wheel houses at floor level		46.0
W203 Rear end opening width at floor		56.5
W204 Rear end opening width at top of tail gate		54.5
W205 Maximum width of rear opening above raised tail gate		54.0
H201 Maximum height, floor covering to headlining at centerline of rear axle		31.5
H202 Maximum height of rear opening, tail and lift gates open		30.5
H250 Platform height measured from ground to top of tail gate floor covering at rear most edge of tail gate, curb weight		24.5
Third Seat, facing direction	---	Rearward
Tail and lift gates or sliding glass	Hinged tailgate with folding link supports and manual retractable rear window (a)	
Cargo volume index (cu. ft.) W4 (P. 24) X L204 X H201 1728		87.0 (b)

(a) Electrically operated window on 9-passenger.

(b) +10.5 cu. ft. for hidden compartment in 6-passenger; +5.7 in 9-passenger.

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1962 DATE ISSUED 10-23-61 REVISED (*)

MODEL 1200-1600-1800 (V-8)

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	Front
Type of finish (lacquer, enamel, other)		Acrylic lacquer
Hood hinge location (front, rear)		Rear
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle (Serial) No. Location		Left front body hinge pillar
Engine No. Location		Front right side of cylinder block
Theft protection - type		Shielded ignition lock terminals Key removable in "lock" or "on" position
Vent window control method (crank, friction pivot)	Front	Crank
	Rear	None
Seat cushion type	Front	Polyurethane foam with zigzag springs
	Rear	Cotton - jute with zigzag springs
Seat back type	Front	Cotton - Zigzag springs
	Rear	Cotton - Zigzag springs
Windshield type (single curved, compound curved, other)		One-piece, curved compound curve element
Rear window type (flat, curved, one piece, three piece)		One-piece, curved
Side glass type (curved, flat)		Flat
Side glass exposed surface area		1318.2
Windshield glass exposed surface area		1600.3
Backlight glass exposed surface area		1277.1
Total glass exposed surface area		4195.6

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET **MODEL YEAR** 1962 **DATE ISSUED** 10-23-61 **REVISED** 12-1-61

233 Cubic Inch V-8

MAJOR OPTIONAL ITEMS - WEIGHTS

Model	CURB - WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT
	Front	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
1211 - 2-Dr. Sedan			3560	30	70			3400
1269 - 4-Dr. Sedan			3635	30	70			3475
1611 - 2-Dr. Sedan			3565	30	70			3405
1637 - 2-Dr. Sport Cpe.			3600	37	63			3440
1669 - 4-Dr. Sedan			3635	30	70			3475
1869 - 4-Dr. Sedan			3665	30	70			3505
1847 - 2-Dr. Sport Cpe.			3610	37	63			3450
1839 - 4-Dr. Sport Sdn.			3695	30	70			3535
1867 - 2-Dr. Convertible			3720	37	63			3560
1235 - 4-Dr. Sta. Wagon			3995	30	70			3840
1635 - 4-Dr. Sta. Wagon			3995	30	70			3840
1645 - 4-Dr. Sta. Wagon			4045	22	78			3890
1835 - 4-Dr. Sta. Wagon			4035	30	70			3865
1845 - 4-Dr. Sta. Wagon			4075	22	78			3920
Accessories & Equipment Differential Weights				Remarks				
Air conditioning, deluxe			+120					
Air cond., Cool Pack			+94					
Brakes, power			+11					
Steering, power			+30					
Trans., Overdrive			+35					
Trans., Powerglide			+105					

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

AMA Specifications – Passenger Car

PAGE 28¹

INDEX

SUBJECT	PAGE NO.	SUBJECT	PAGE NO.
Air Suspension	17	Lamp Bulbs	11
Angles of Approach, Departure	22	Lamp Height & Spacing	12
Automatic Transmission	1, 14	Legroom	23
Axis, Steering	19	Lengths - Car, & Body Interior	1, 23
Axle, Rear	1, 15	Lifters, Valve	4
Battery	8	Linings - Clutch, Brake	13, 16
Bearings, Engine	3, 4, 7	Lubrication	5, 6, 13, 14, 15
Belts - Fan, Generator, Water Pump	7	Motor, Starting	8
Body - General Information, Types	Title, 20	Muffler	6
Height Dimensions	21, 22	Overdrive	14
Length Dimensions	23	Piston Pins & Rings	3
Overall Dimensions	1, 22, 23, 24	Pistons	2, 3
Trunk Capacities, Opening Dimensions	20	Power Brakes	16
Width Dimensions	24	Power Steering	18
Brakes - Parking, Service, Power	16, 17	Propeller Shaft, Universal Joints	15
Camber	19	Pumps - Oil, Fuel	6
Camshaft	4	Water	7
Capacities		Radiator, Hoses	7
Cooling System	7	Ramp Break-over Angle	22
Fuel Tank	6	Ratios - Axle	1, 15
Lubricants		Compression	1, 2
Engine Crankcase	6	Steering	18
Transmission and Overdrive	13, 14	Transmission	13, 14
Rear Axle	15	Rear Axle	1, 15
Carburetor	6	Regulator - Generator	8
Caster	19	Rims	16
Choke, Automatic	6	Rings, Piston	?
Circuit Breakers, Fuses	12	Rods - Connecting	
Clearance, Ground	22	Shock Absorbers, Front & Rear	1
Clutch - Pedal Operated	13	Spark Plugs	9
Coil, Ignition	9	Speedometer	10
Connecting Rods	3	Springs - Front & Rear Suspension	18, 19
Cooling System	7	Valve, Engine	5
Crankshaft	4	Stabilizer (Sway Bar) - Front & Rear	18, 19
Cylinders and Cylinder Head	2	Starting Motor	8
Distributor - Ignition	9	Steering	18, 19
Electrical System	8, 9, 10, 11, 12	Suppression - Ignition, Radio	9
Engine		Suspension - Front & Rear	17, 18, 19
Bore, Stroke, Displacement, Type	1, 2	Switches	10
Compression Ratio	1, 2	Tailpipe	6
Firing Order, Cylinder Numbering	2, 9	Thermostat, Cooling	7
General Information, H.P. & Torque	1, 2	Timing, Engine & Valve	4, 5, 9
Lubrication	5, 6	Tires	1, 16
Exhaust System	6	Toe in	19
Fan, Cooling	7	Torque Converter	14
Filters - Engine Oil, Fuel System	6	Torque - Engine, Rated	1, 2
Frame	17	Transmission - Types	1, 13, 14
Front Suspension	17, 18	Automatic	1, 14
Fuel, Fuel Pump, Fuel System	1, 2, 6	Manual & Overdrive	13, 14
Fuel Injection	1, 6	Ratios	13, 14
Fuses, Circuit Breakers	12	Tread	1, 24
Generator and Regulator	8	Turning Diameter	18
Glass	22, 24, 26	Unitized Construction	17
Height (Lamps)	12	Universal Joints, Propeller Shaft	15
Headroom - Body	21	Valves - Intake & Exhaust	4, 5
Heights - Car & Body	1, 21, 22	Vibration Damper	4
Hood	26	Voltage Regulator	8
Horns	10	Water Pump	-
Horsepower - Brake, Rated, Taxable	1, 2	Weights - Shipping, Curb	
Ignition System	9	Wheel Alignment	
Inflation - Tires	16	Wheelbase	1, 24
Instruments	6, 10	Wheels & Tires	16
Kingpin (Steering Axis)	19	Wheel Spindle	19
		Widths - Car & Body	1, 24
		Windshield	22, 24, 26
		Windshield Wiper	10