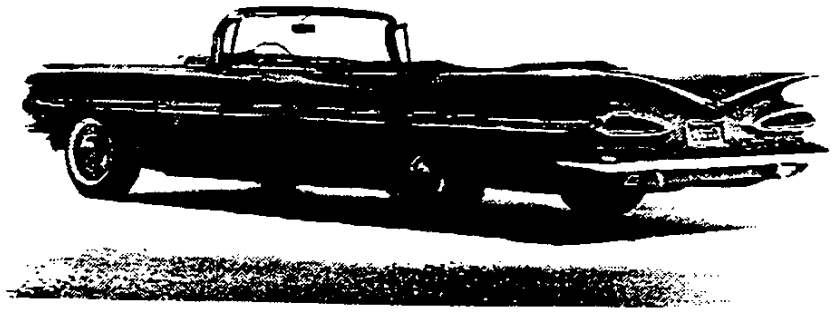
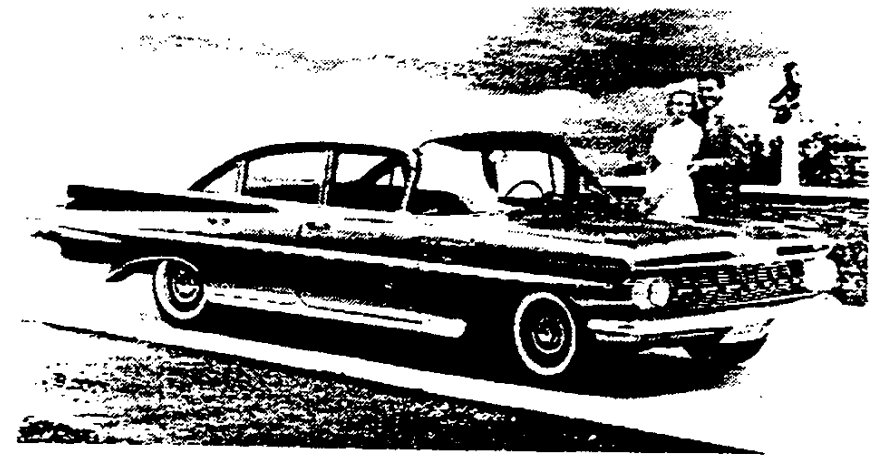
CHEVROLET



1959 Chevrolet, Impala two-door convertible, V-8



1959 Chevrolet, Bel Air four-door sedan, 6-cyl (AA)

1959

1959
CHEVROLET PASSENGER CAR SPECIFICATIONS

CHEVROLET ENGINEERING CENTER

ENGINEERING PRODUCT INFORMATION DEPARTMENT
WARREN, MICHIGAN • OCTOBER, 1958

AUTOMOBILE SPECIFICATIONS...

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 PURPOSE OF CHEVROLET 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 1959 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.

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 Corvette. Also covered are Sedan Delivery and Sedan Pickup models.

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. These are shown on a separate page.

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 ($\pm$/64, $\pm$/32, $\pm$/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 types #2 and #3 are quoted without manufacturing tolerances.

Unless specified otherwise all dimensions are in inches.

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.

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. The index lists the details covered by the title headings.

Tabs are provided for conveniently locating basic sections such as BODY AND SHEET METAL and ENGINES AND CLUTCHES.

REVISIONS...

All revisions and the dates on which they are made will be indicated at the bottom of the page on which they occur. Where it is necessary to indicate a change in an individual specification, a symbol will be placed in the proximity of the revised specification. This symbol also will be repeated at the bottom of the page with a description of the revision. The following symbols have been established for this purpose: o, x, +, v, *, -. They may be used singly, in multiples or in combinations.

Subsequent revisions on a revised page will be made in the same manner as described above. However, to emphasize and clarify the later changes, all symbols and descriptions pertaining to previous revisions will be removed and a note added including the previous date of change preceded by the word "Revised".

ADDRESS ALL 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

AC Spark Plug Division ------ AC
Acting ---------- Act
Adjustment ---------- Adj
After Bottom Center ------- ABC
After Top Center ---------- ATC
Aluminum ---------- Al
Ampere ---------- Amp
Approximately ---------- Approx
Assembly ---------- Assem
Automatic ---------- Auto
Auxiliary ---------- Aux
Average ---------- Avg

Barometric ---------- Bar
Barrel ---------- Bbl
Battery ---------- Bat
Bearing ---------- Brg
Before Bottom Center ------ BBC
Before Top Center --------- BTC
Before Top Dead Center --- BTDC
Bolt Circle ---------- BC
Bracket ---------- Brkt
Brake Horsepower --------- BHP
Bushing ---------- Bush

Cab-Over-Engine ---------- COE
Candle Power ---------- CP
Camshaft ---------- Cam
Capacity ---------- Cap
Carburetor ---------- Carb
Cast Iron ---------- CI
Center of Gravity ---------- CG
Change ---------- Chg
Circumference --------- Circum
Column ---------- Col
Commercial ---------- Comm
Compression ---------- Comp
Conditioning ---------- Cond
Connecting ---------- Conn
Continue ---------- Cont
Conventional & Convertible -- Conv
Central Office Production Order --
---------- COPO
Cross Member ---------- CM
Cubic Feet ---------- Cu Ft
Cubic Inches ---------- Cu In
Cylinder ---------- Cyl

Daylight Opening ---------- DLO
Decalcomania ---------- Decal
Degree ---------- Deg
Delivery ---------- Del
Designation ---------- Design
Diameter ---------- Dia
Dimension ---------- Dim
Displacement ---------- Displ
Distributor ---------- Distr
Division ---------- Div
Double ---------- Dbl
Double Row ---------- DR
Drawing ---------- Dwg

Each ---------- Ea
Effective ---------- Eff
Electric ---------- Elect
Engine ---------- Eng
Equipment ---------- Equip
Equivalent ---------- Equiv
Etcetera ---------- Etc
Except ---------- Exc
Exhaust ---------- Exh
Exterior ---------- Ext

Factory Optional Accessory - FOA
Fahrenheit ---------- F
Feet ---------- Ft
Feet Per Minute --------- Ft/Min
Figure ---------- Fig
Foot Pounds ---------- Ft-Lb
Front ---------- Fr

Gallon ---------- Gal
Gallons Per Minute -------- GPM
General Motors ---------- GM
Generator ---------- Gen
Governor ---------- Gov

Heavy Duty ---------- HD
Horsepower ---------- Hp
Hot Rolled ---------- HR
Hour ---------- Hr
Housing ---------- Hsg
Hydraulic ---------- Hyd

Identification ---------- Id
Ignition ---------- Ign
Inches ---------- In
Inches Cubed ---------- In^3
Inches to the Fourth Power --- In^4
Included ---------- Incl
Inside Diameter ---------- ID
Instrument ---------- Inst
Intermediate ---------- Inter

Joint ---------- Jt

Kilometer ---------- Kilo

Laminated Safety Plate ------ LSP
Left ---------- L
Left Hand ---------- LH
Light ---------- Lt
Limited Production Option --- LPO
Lubricate ---------- Lub

Material ---------- Matl
Maximum ---------- Max
Medium ---------- Med
Members ---------- Mbrs
Mercury ---------- Hg
Mile ---------- Mi
Miles Per Hour ---------- MPH
Millimeter ---------- MM
Minutes & Minimum -------- Min
Miscellaneous ---------- Misc
Model, Modified & Modulus -- Mod
Mounting ---------- Mtg

Negative ---------- Neg
New Departure ---------- ND
Nominal ---------- Nom
Number ---------- No

Odometer ---------- Odom
Operation ---------- Oper
Opposite ---------- Opp
Optional ---------- Opt
Ounce ---------- Oz
Outside Diameter ---------- OD
Overdrive ---------- Od

Page ---------- P
Pages ---------- Pp
Passenger ---------- Pass
Piece ---------- Pc
Pint ---------- Pt
Pitch Diameter ---------- PD
Ply Rating ---------- Pr
Pound ---------- Lb
Pounds Per Square Inch ------ PSI
Power ---------- Pwr
Powerglide ---------- PG
Preliminary ---------- Prelim
Pressure ---------- Press
Product or Production ------ Prod
Projected ---------- Proj
Propeller ---------- Prop

Quality ---------- Qual
Quantity ---------- Quan
Quart ---------- Qt
Quarter ---------- Qtr

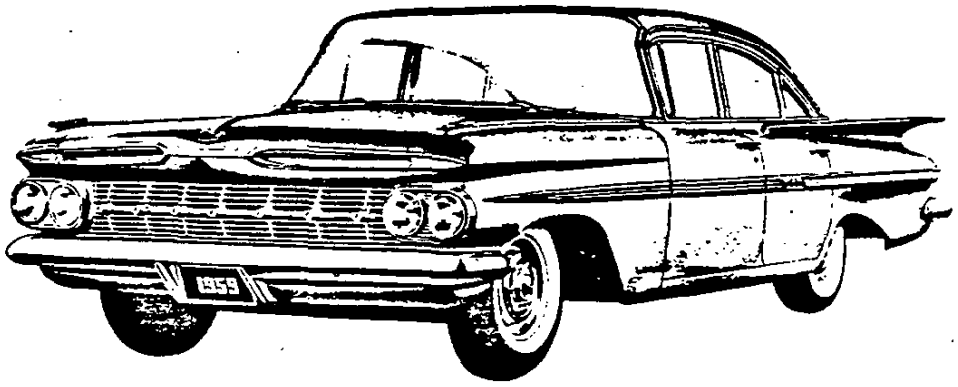
Radiator ---------- Rad
Radius & Roller ---------- R
Rear ---------- Rr
Reference ---------- Ref
Regular & Regulator -------- Reg
Regular Production Option -- RPO
Reinforce & Reinforcement - Reinf
Required ---------- Req'd
Retaining ---------- Ret
Reverse & Revolutions ------ Rev
Revolutions Per Mile ------ Rev/Mi
Revolutions Per Minute ------ RPM
Right ---------- Rt
Rubber ---------- Rub

Safety Solid Plate	SSP
Saginaw	Sag
Section	Sect
Sedan	Sed
Sheet	Sh
Single Row	SR
Society of Automotive Engineers	SAE
Society of Fuse Engineers	SFE
Speedometer	Speedo
Spherical	Spher
Spring	Spr
Square	Sq
Square Inches	Sq. In
Standard	Std
Steel	Stl
Steering	Strg
Suspension	Susp
Tachometer	Tach
Temperature	Temp
That Is	ie
Theoretical	Theo
Thread	Thd
Tolerance	Tol
Transmission	Trans
Turboglide	TG
Vacuum	Vac
Velocity	Vel
Visibility Area	VA
Volume	Vol
Wagon	Wgn
Weight	Wt
Wheel	Whl
Windshield	W/S

SYMBOLS

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

GENERAL



MODEL IDENTIFICATION 2

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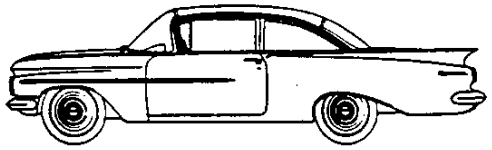
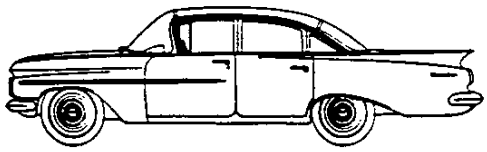
AIR CONDITIONING 14

MODEL IDENTIFICATION

BISCAYNE SERIES

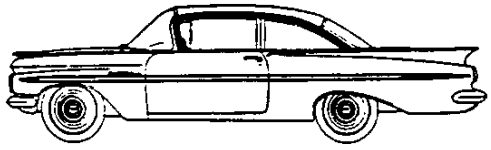


Model 11-1211;11-1221—2-door, 6-passenger, 4 window Sedan, luggage compartment in rear.

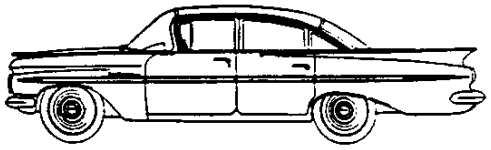


Model 11-1219 — 4-door, 6-passenger, 6 window Sedan, luggage compartment in rear.

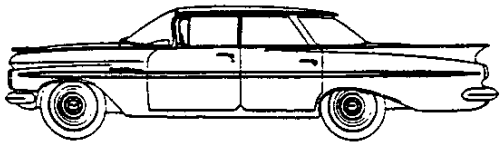
BEL AIR SERIES



Model 15-1611 — 2-door, 6-passenger, 4 window Sedan, luggage compartment in rear.

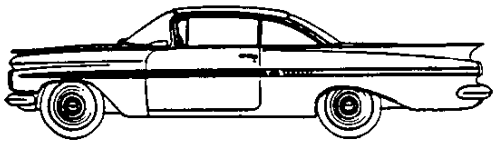


Model 15-1619 — 4-door, 6-passenger, 6 window Sedan, luggage compartment in rear.

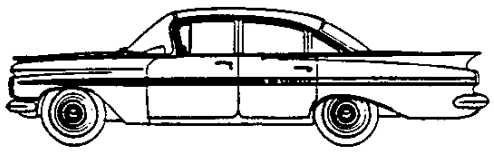


Model 15-1639—4-door, 5-passenger, 4-window Sport Sedan, luggage compartment in rear.

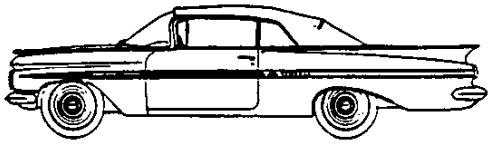
IMPALA SERIES



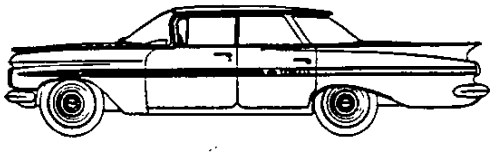
Model 17-1837 — 2-door, 5-passenger, 4 window Sport Coupe, luggage compartment in rear.



Model 17-1819 — 4-door, 6-passenger, 6 window Sedan, luggage compartment in rear.

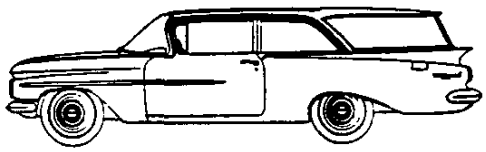


Model 17-1867 — 2-door, 5-passenger, 4 window Convertible, luggage compartment in rear.

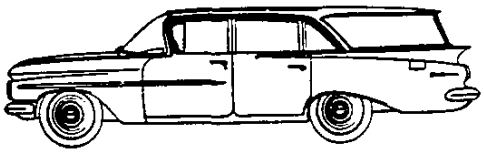


Model 17-1839 — 4-door, 5-passenger, 4-window Sport Sedan, luggage compartment in rear.

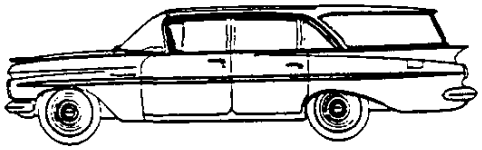
STATION WAGON SERIES



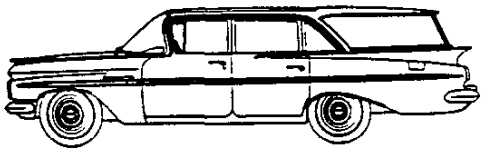
Model 11-1215 Brookwood — 2-door, 6 passenger, 6 window Station Wagon, drop gate in rear with retractable window.



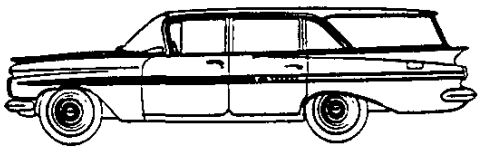
Model 11-1235 Brookwood — 4-door, 6 passenger, 8 window Station Wagon, drop gate in rear with retractable window.



Model 15-1635 Parkwood — 4-door, 6 passenger, 8 window Station Wagon, drop gate in rear with retractable window.

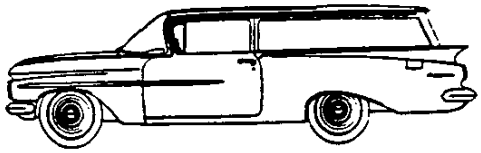


Model 15-1645 Kingswood — 4-door, 9 passenger, 8 window Station Wagon, drop gate in rear with retractable window.

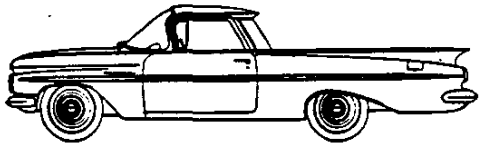


Model 17-1835 Nomad —4-door, 6-passenger, 8 window Station Wagon, drop gate in rear with retractable window.

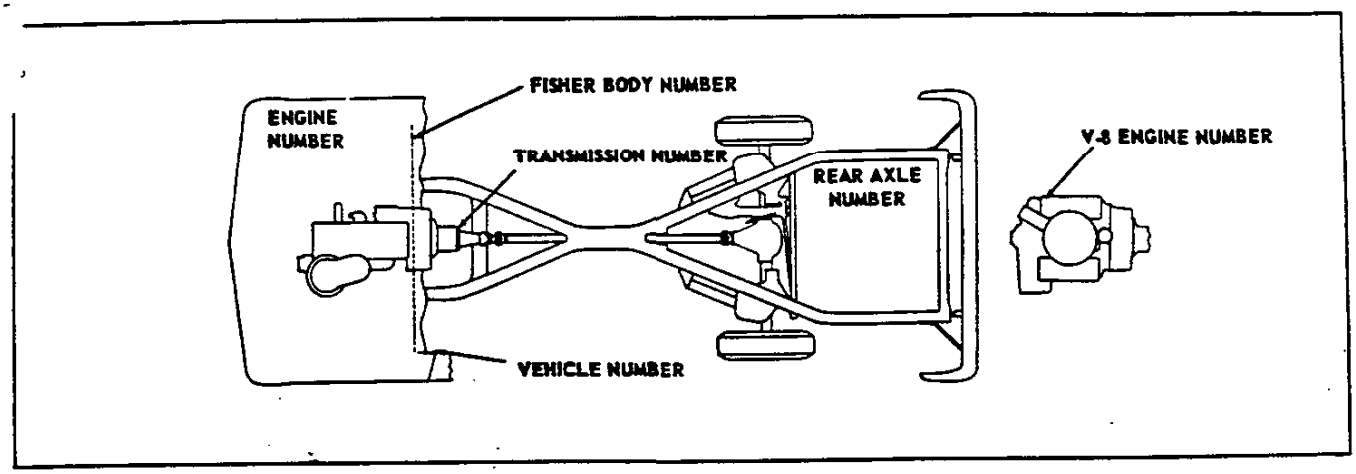
COMMERCIAL MODELS



Model 11-1270 Biscayne — 3-door, 2-passenger, 2-window Sedan Delivery, swing up door in rear.



Model 11-1280 El Camino — 2-door, 3-passenger, 2 window Sedan Pickup, drop gate in rear.



SERIAL NUMBERS AND IDENTIFICATION

VEHICLE SERIAL NUMBER

6-Cylinder Example:

Series	Model year	Assembly plant	Unit number
A	59	T	100025

8-Cylinder Example:

Series	Model year	Assembly plant	Unit number
B	59	T	100026

With 6-Cylinder Engine:
A 1100 (except 1170-1180)
C 1500
E 1700
G 1170-1180

With 8-Cylinder Engine:
B 1200 (except 1270-1280)
D 1600
F 1800
H 1270-1280

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

Starting Unit Number ---------- 100001 and up at each assembly plant regardless of series.

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

ENGINE IDENTIFICATION

Example: F 1210 CD

	Source Designation	Production Month & Date $	Type Designation
	F	1210	CD
Assembly Plant:	F - Flint		T - Tonawanda

6-Cylinder: (235)

A - Regular production engine with 3-speed or overdrive

AE - Regular with heavy-duty clutch (1119-1519 taxi cab)

B - Regular with Powerglide

8-Cylinder Engine (283)

C - Regular production engine
CD - Regular with overdrive
CF - Regular with 4-barrel carburetor equipt.
CG - Regular with 4-bbl. carb. & overdrive
CH - Regular with fuel injection
CJ - Regular with fuel injection & Hi-lift cam
D - Regular with Powerglide
DB - Regular with 4 bbl. carb. & Powerglide
DE - Regular with air suspension & Powerglide
DF - Regular with air susp., 4 bbl. carb. & PG
DK - Regular with air cond. & PG
DL - Regular with air cond., PG & air susp.
DM - Regular with air cond., PG & 4 bbl. carb.
DN - Regular with a/c PG, 4 bbl. carb., & air susp.
DP - Regular with fuel injection & PG

E - Regular with Turboglide
EB - Regular with 4 bbl. carb. & Turboglide
EC - Regular with fuel injection & Turboglide
ED - Regular with air suspension & Turboglide
EF - Regular with air susp. 4 bbl. carb. & TG
EG - Regular with air cond. & TG
EH - Regular with air cond., TG, & air susp.
EJ - Regular with air cond. TG, & 4-bbl. carb.
EK - Reg. with air cond. TG, 4-bbl. carb. & air susp.
F - 348 optional engine
FA - 348 with triple 2-bbl. carb. equip.
FB - 348 with triple 2-bbl. carb. & Hi-lift cam
FD - 348 with 4-bbl. carb. & Hi-lift cam
FE - 348 with triple 2-bbl. carb. & Hi-lift cam
FG - 348 with 4-bbl. carb. & Hi-lift cam
G - 348 with Powerglide
GB - 348 with triple 2-bbl. carb. & PG
GD - 348 with 4-bbl. carb. Hi-lift cam & PG
H - 348 with Turboglide
HA - 348 with triple 2-bbl. carb. & TG

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.

TRANSMISSION IDENTIFICATION

Example:	Plant & Type Designation	Month	Day of Month	Shift
	M	11$	26$	D¢

Prefix	Plant	Type
M	Muncie ---	3-speed & O.D.
S	Saginaw --	3-speed & O.D.
C	Cleveland ----	Powerglide
B	Toledo -------	Turboglide

Location, 3-Speed ---------- Stamped on rear face of case on upper right corner.
Powerglide ---------- Stamped on rear flange of governor cover.
Turboglide ---------- Stamped on boss on lower right rear of case.

REAR AXLE IDENTIFICATION

Example: AA 212

Plant and Type Designation	Production Month $	Date Day$
AA	2	12

Gear & Axle	Buffalo
AA --------	BA -- 348 4-sp; 348 PG & hi-lift cam
AB --------	BB --------- 348 TG & PG; 348 3-sp
AD --------	BD --- Taxi cab, 3.36:1 ratio W/PG
AG --------	BG --------- Taxi cab, 3.55:1 ratio
AK --------	BK ------- Limited slip, 3.55:1 ratio
AM --------	BM ------- Limited slip, 3.36:1 ratio
AW --------	BW ---------W-engine, 3.08:1 ratio
AX --------	BX ------- Limited slip, 3.08:1 ratio
FH --------	BH ------- Limited slip, 3.70:1 ratio

Location ---------- Stamped front right side of differential carrier.

¢ - D denotes day shift; N denotes night. (PG & TG only)
$ - Month: 1 denotes January etc.; 01 denotes 1st day etc.

1959 PASSENGER CAR
REGULAR EQUIPMENT - EXTERIOR

ITEM		MODELS
Front and rear bumpers with twin vertical guards		All
Dual headlights		
Twin parking and direction signal lights		
Twin tail, stop and direction signal lights		
Rear license lamps (two)		All except Station Wagons$
Deck lid emblem		
Hub caps		All
Push-button door handles		
Outside key locks below front door handles		
Dual windshield wipers, electric, single-speed		
Dual horns		
Anodized Aluminum	Grille body and screen	
	Air inlet frames and screens	
	Tail light bezels	
	Tail light dividing strips	1700-1800
	Body side molding	1100-1200 exc. 1180-1280
	Headlight bezels	All
	Parking light bezels	
Chevrolet script on hood		
Chevrolet script and "V" on hood (283 V-8 only)		
Chevrolet script, "V", and crossed flags on hood (348 V-8 only)		
Front fender ornaments		1500-1600-1700-1800
Front fender crown moldings		1700-1800
Twin back-up lights		
Gasoline filler behind rear license area		All except Station Wagons
Gasoline filler door on left hand rear quarter panel		Station Wagons$
Series script on front fenders		1500-1600¢
Series script on rear door or rear quarter panel		1100-1200-1700-1800ff
Simulated exhaust port above rear window		1719-1819-1737-1837-1739-1839
Deck lid or tailgate medallion		All
Outside rear view mirror - L.H.		1170-1270
Bonderized body and sheet metal		All
Electric rear window regulator		1545-1645
Manual rear window regulator		All Station Wagons except 1545-1645
Bright-metal Moldings	Windshield reveal	All
	Deck lid or tailgate peak	
	Rear quarter panel peak	
	Ventipane channel and post	
	Body side, double with insert area	1500-1600-1700-1800-1180-1280
	Drip cap	1180-1280-1500-1600-1700-1800 except 1767-1867-1170-1270
	Windshield pillar	
	Rear window upper, side, and lower	All except Station Wagons and Convertible*
	Door upper frame and rear quarter window reveal	1719-1819-1735-1835
	Roof side and rail	1737-1837-1739-1839-1180-1280
	Roof rear	1739-1839-1180-1280
	Belt reveal	1700-1800-1180-1280
	Deck lid center	1700-1800 except 1735-1835
	Rear license opening	
	Tailgate window reveal, side, and top	All Station Wagons
	Tailgate pillar cap	1535-1635-1545-1645-1735-1835
	Tailgate window lower reveal	
	Rear quarter window reveal	
	Pickup box rail	1180-1280

$ - And models 1170-1270; 1180-1280
¢ - And models 1180-1280
ff - Except 1180-1280
* - And models 1170-1270

1959 PASSENGER CAR
REGULAR EQUIPMENT - INTERIOR

ITEM			MODELS
Instrument Panel	Ignition switch identification plate		1100-1200
	Anodized aluminum trim molding		1500-1600
	Anodized aluminum trim molding and plate		1700-1800
	"Chevrolet" nameplate		1100-1200-1500-1600-1735-1835
	"Impala" nameplate		1700-1800 except 1735-1835
	Black plastic control knobs		1100-1200
	Chrome-capped control knobs		1500-1600-1700-1800
	Black plastic vent control knobs		All
	Electric clock		1700-1800
	Parking brake alarm		
	Glove compartment	Light	1500-1600-1700-1800
		Lock	All
	Cigarette lighter		1500-1600-1700-1800
	Ash tray		All
	3-Position ignition lock and starter switch		
Steering Wheel	Deep hub, perforated spokes, half-circle horn ring		1700-1800
	Deep hub, dual solid spokes, half-circle horn ring		1500-1600
	Deep hub, dual solid spokes, horn button		1100-1200
Crank type front ventipanes			All
Coat hooks			All except 1767-1867-1170-1270-1180-1280
Door locking knobs			All
Rear seat speaker grille			1737-1837-1767-1867
Inside rear view mirror			All except 1170-1270
Rear window control switch on instrument panel			1545-1645
Interior Lights	Single dome, center		All except 1739-1839-1737-1837-1767-1867¢
	Dual side rail		1739-1839-1737-1837
	Dual in dash		1767-1867
	Third seat, courtesy		1545-1645
Manual interior light switch integral with headlight switch (main switch)			All
Automatic interior light switch, front doors only			1500-1600-1700-1800
Sunshades	Dual		1500-1600-1700-1800
	Left hand only		1100-1200
Front and rear seat padding			See page 18 - Body and S.M.
Aluminum seat end panels			1700-1800
Armrests front and rear doors or quarter panels			1500-1600-1700-1800
Ash tray, rear door or quarter panels			1500-1600-1700-1800
Door remote control handle, conventional type			All except 1700-1800
Door remote control handle, paddle type			1700-1800
Floor Covering	Carpet		1700-1800
	Carpet, vinyl-covered inserts		1500-1600
	Rubber mat, vinyl-covered		1100-1200
	Vinyl-type cargo floor and covered wheelhouses		Station Wagons
	Painted load floor and wheelhouses		1170-1270; 1180-1280
Bright Metal Moldings	Windshield, upper and side		1737-1837-1739-1839
	Rear window, upper and side		
	Front door, rear door or rear quarter trim		1700-1800
	Side roof rails		1737-1837-1739-1839

¢ - Also 1170-1270

* - Polyurethane and cotton rear seat cushion on 17-1819; 17-1837; 17-1839; 17-1867

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1959 PASSENGER CAR REGULAR PRODUCTION
OPTIONS AND FACTORY OPTIONAL ACCESSORIES

GROUP	ITEM		NUMBER	MODELS
Engine	Air cleaner, oil bath		216	Series 11-15-1700
	Carburetor (s)fi	Single 4-barrel	410	Series 12-16-1800
		Triple 2-barrel	573-574%	Series 12-16-1800$
	Clutch, heavy-duty		227	Series 11-15-1700
	Engine, 348 cubic inch V-8		576-577fi	Series 12-16-1800$
	Exhaust, dual		220	Series 12-16-1800
	Fan, thermostatically controlled		121*	
	Filter, oil		237	All
	Fuel injection		578	Series 12-16-1800&
	Generators	35-amp.	338	All
		40-amp.	326	
		50-amp. (low cut-in)	378	
Transmission	Four-speed		685	Series 12-16-1800$
	Overdrive		315	All
	Powerglide		313	
	Turboglide		302	Series 12-16-1800
Chassis	Axle, rear (limited-slip)		675	All
	Battery, heavy-duty (11-plate, 70 amp.)		345	
	Brakes, power		412	
	Disks, wheel		117*	
	Springs, rear (heavy-duty)		593	
	Steering, power		324	
	Suspension, air		580	Series 12-16-1800$
	Tires	7.50 X 14-4 ply (whitewall)	465	All except 11-1215, 35, $;
		8.00 X 14-4 ply (blackwall)	283	15-1635, 45; 17-1835, 67
		8.00 X 14-4 ply (whitewall)	588	All
		8.50 x 14-4 ply (blackwall)	366	1170-80; 1270-80
		8.50 x 14-4 ply (whitewall)	368	
Body	Air conditioning		110*	Series 12-16-1800&
	Cushion, foam rubber front seat		335	Series 11-1200$
	Deluxe body equipment fi		347	
	Deluxe steering wheel		348	Series 11-1200
	Glass	Tinted (rear window only)	388	17-1837 only
		Tinted	398	All
	Heater and Defroster	Air flow	101*	
		Recirculating	116*	
	Pad, instrument panel		427	
	Radio and Antenna	Manual	103*	
		Push-button	104*	
	Seat, 6-way power		380	Series 15-16-17-1800
	Taxicab equipment**		330	11-12-15-1619 only
	Top, folding (colors)		470	17-1867 only
	Washer, push-button windshield		109*	All
	Wipers, 2-speed electric ¢		333	
	Window (s)	Power tailgate	424	15-16-17-1835 only
		Power	426	Series 15-16-17-1800
	Seat	RF, auxiliary	263	1170-1270
		Front, full width	482	

* - Factory Optional Accessory. Also available as dealer-installed accessory.
fi - Includes front fender ornaments, front armrests, right hand sunshade, and cigarette lighter.
¢ - Includes push-button washers, and overlapping windshield wipers.
** - Also includes Chassis and Engine equipment.
$ - Except 1270.
& - Except 1270-80.
fi - RPO 577 special cam 348 engine, 4-barrel carburetor.
fi - RPO 581 economy carburetor - 1100 series.
% - RPO 574 triple 2-barrel special cam on 12-16-1800 with 348 engine.

1959 PASSENGER CAR
DEALER-INSTALLED ACCESSORIES

ITEM			MODELS
Air Conditioner	Fresh air (All Weather)		Series 12-16-1800
	Recirculating (Cool Pack)		All
Alarm	Parking brake		Series 11-12-15-1600
	Speed warning		All
Antenna (radio)	Dummy	Left rear	All except 11-1215, 35; 15-1635, 45; 17-1835
	Manual	Right rear	
		Right front	All
Armrests	Front or rear		Series 11-1200
Ash Tray	Vacuum		All
Belt	Seat		
Brake	Vacuum power		
Cap	Gasoline tank filler locking		
Carrier	Luggage (rooftop-type)		All except 17-1867; 1170-80; 1270-80
	Spare wheel (Continental-type)		All except 11-1215, 35; 15-1635, 45; 17-1835 1170-80; 1270-80
Clock	Electric		Series 11-12-15-1600
Container	Litter		All
Compass	Illuminated		
Cover	Accelerator pedal		
	Front seat cushion		
	Wheel (disk-type)		
Deflectors	Rain		All except 17-1837, 39, 67; 1170-80; 1270-80
Dimmer	Automatic headlight (Autronic Eye)		All
Dispenser	Tissue		
Extension	Front door vent window		All
Fan	Thermostatically controlled		1200-1600-1800
Flasher unit	Traffic hazard		All
Grille	Rear radio speaker		15-1645
Guard	Door edge		All
	Front bumper and grille		
	Gas filler and license plate		11-1211, 19, 21; 15-1611, 19; 1170-80; 1270-80
Harness	Seat belt shoulder		All
Heater and Defroster	Air flow		
	Recirculating		
Light(s)	Ash tray		
	Backing		Series 11-12-15-1600
	Courtesy		All except 17-1867
	Engine compartment		All
	Glove compartment		Series 11-1200
	Luggage compartment		All except 11-1215, 35; 15-1635, 45; 17-1835; 1170-80; 1270-80
	Spot	Inside-operated	All
		Outside-operated	
		Portable	
Lighter	Cigarette		Series 11-1200
Lock	Throttle		All
Mat	Floor (front or rear)		
Mirror	Rear view	Inside (prismatic)	All, except 1170-1270
		Outside (door-mount)	
	Visor vanity		All
Moldings	Body sill		
Ornaments	Front fender crown		Series 11-1200
	Hub cap or wheel disk		All
	Rear fender simulated exhaust		
Pad	Ventilated seat		
Radio	Manual *		
	Push-button *		
	Signal-seeking *		
Screen	Radiator insect		
Shield	Door handle		
	Windshield glare (plastic)		
	Rear window glare (plastic)		17-1837
Speaker	Rear radio		All except 1170-80; 1270-80
Sunshade	Right hand		Series 11-1200
Tool Kit			All
Washer	Windshield	Push-button	
		Foot-operated	

* - Includes front or rear antenna for sedan and sport models, front antenna only for station wagon models.

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VEHICLE WEIGHTS

1100-1200 SERIES BISCAYNE

VEHICLE TYPE		SHIPPING WEIGHT			CURB WEIGHT			LOADED WEIGHT		
Model	Description	Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
1111	2-Door Sedan 6-cylinder	1870	1665	3535	1880	1810	3690	2210	2380	4590
1111P		1950	1690	3640	1960	1840	3800	2290	2410	4700
1211	2-Door Sedan 8-cylinder	1845	1685	3530	1860	1830	3690	2190	2400	4590
1211P		1925	1710	3635	1940	1955	3795	2270	2425	4695
1211T		1855	1700	3555	1870	1845	3715	2195	2420	4615
1119	4-Door Sedan 6-cylinder	1880	1725	3605	1890	1870	3760	2220	2440	4660
1119P		1960	1750	3710	1975	1895	3870	2305	2465	4770
1219	4-Door Sedan 8-cylinder	1880	1720	3600	1890	1870	3760	2220	2440	4660
1219P		1955	1750	3705	1970	1895	3865	2300	2465	4765
1219T		1885	1740	3625	1900	1885	3785	2230	2455	4685
1121	Utility Sedan 6-cylinder	1850	1630	3480	1865	1770	3635	2095	1990	4085
1121P		1930	1655	3585	1945	1800	3745	2180	2015	4195
1221	Utility Sedan 8-cylinder	1845	1645	3490	1860	1785	3645	2090	2005	4095
1221P		1925	1670	3595	1940	1810	3750	2170	2030	4200
1221T		1850	1660	3510	1870	1800	3670	2100	2020	4120
1170	Sedan Delivery 6-cylinder	1885	1855	3640	1805	1975	3780	1885	2515	4400
1170P		1860	1885	3745	1885	2000	3885	1960	2545	4505
1270	Sedan Delivery 8-cylinder	1775	1860	3635	1800	1975	3775	1875	2520	4395
1270P		1855	1885	3740	1880	2000	3880	1955	2545	4500
1270T		1780	1875	3655	1810	1990	3800	1885	2535	4420
1180	Sedan Pickup 6-cylinder	1885	1705	3590	1905	1825	3730	2120	2280	4400
1180P		1960	1735	3695	1985	1850	3835	2200	2305	4505
1280	Sedan Pickup 8-cylinder	1870	1710	3580	1895	1825	3720	2110	2280	4390
1280P		1950	1735	3685	1975	1850	3825	2195	2305	4500
1280T		1875	1725	3600	1905	1840	3745	2120	2295	4415

1500-1600 SERIES BEL AIR

1511	2-Door Sedan 6-cylinder	1870	1645	3515	1885	1790	3675	2215	2360	4575
1511P		1950	1670	3620	1965	1815	3780	2295	2385	4680
1611	2-Door Sedan 8-cylinder	1860	1650	3510	1875	1795	3670	2205	2365	4570
1611P		1940	1680	3620	1955	1825	3780	2285	2395	4680
1611T		1870	1665	3535	1885	1810	3695	2210	2385	4595
1519	4-Door Sedan 6-cylinder	1895	1710	3605	1905	1855	3760	2235	2425	4660
1519P		1975	1735	3710	1985	1880	3865	2315	2450	4765
1619	4-Door Sedan 8-cylinder	1895	1720	3615	1910	1865	3775	2240	2435	4675
1619P		1975	1745	3720	1990	1890	3880	2320	2460	4780
1619T		1905	1735	3640	1920	1880	3800	2250	2450	4700
1539	4-Door Sport Sedan 6-cylinder	1905	1715	3620	1920	1860	3780	2170	2360	4530
1539P		1985	1740	3725	1995	1890	3885	2250	2385	4635
1639	4-Door Sport Sedan 8-cylinder	1895	1735	3630	1915	1875	3790	2165	2375	4540
1639P		1975	1755	3735	1990	1905	3895	2245	2400	4645
1639T		1905	1750	3655	1920	1895	3815	2175	2390	4565

1700-1800 SERIES IMPALA

1719	4-Door Sedan 6-cylinder	1920	1705	3625	1930	1850	3780	2260	2420	4680
1719P		1995	1735	3730	2010	1880	3890	2340	2450	4790
1819	4-Door Sedan 8-cylinder	1900	1720	3620	1915	1865	3780	2245	2435	4680
1819P		1980	1745	3725	1995	1890	3885	2325	2460	4785
1819T		1910	1735	3645	1925	1880	3805	2255	2450	4705
1737	2-Door Sport Coupe 6-cylinder	1900	1670	3570	1915	1810	3725	2215	2260	4475
1737P		1980	1695	3675	1995	1840	3835	2295	2290	4585
1837	2-Door Sport Coupe 8-cylinder	1890	1685	3575	1905	1830	3735	2200	2285	4485
1837P		1970	1715	3685	1985	1860	3845	2280	2315	4595
1837T		1895	1705	3600	1910	1850	3760	2210	2300	4510
1739	4-Door Sport Sedan 6-cylinder	1930	1735	3665	1940	1885	3825	2195	2380	4575
1739P		2010	1765	3775	2020	1910	3930	2275	2405	4680
1839	4-Door Sport Sedan 8-cylinder	1920	1750	3670	1935	1895	3830	2185	2395	4580
1839P		2000	1780	3780	2015	1925	3940	2265	2425	4690
1839T		1925	1770	3695	1940	1915	3855	2190	2415	4605

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17-1800 SERIES IMPALA (CON'T.)

1767	Convertible 6-cylinder	1945	1715	3660	1955	1860	3815	2255	2310	4565
1767P		2020	1745	3765	2035	1890	3925	2335	2340	4675
1867	Convertible 8-cylinder	1935	1715	3650	1950	1860	3810	2250	2310	4560
1867P		2020	1740	3760	2035	1885	3920	2330	2340	4670
1867T		1945	1730	3675	1960	1875	3835	2260	2325	4585

1100-1200 SERIES BROOKWOOD

VEHICLE TYPE		SHIPPING WEIGHT			CURB WEIGHT			LOADED WEIGHT		
Model	Description	Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
1115	2-Door Station Wagon 6 cyl.	1805	2065	3870	1830	2180	4010	2150	2760	4910
1115P		1885	2090	3975	1910	2205	4115	2230	2786	5015
1215	2-Door Station Wagon 8 cyl.	1795	2065	3860	1825	2175	4000	2145	2755	4900
1215P		1875	2090	3965	1905	2205	4110	2225	2785	5010
1215T		1805	2080	3885	1830	2195	4025	2150	2775	4925
1135	4-Door Station Wagon 6 cyl.	1835	2120	3955	1860	2235	4095	2180	2815	4995
1135P		1910	2150	4060	1935	2265	4200	2260	2840	5100
1235	4-Door Station Wagon 8 cyl.	1815	2140	3955	1840	2255	4095	2165	2830	4995
1235P		1895	2165	4060	1920	2280	4200	2240	2860	5100
1235T		1825	2155	3980	1850	2270	4120	2170	2850	5020

1500-1600 SERIES PARKWOOD

1535	4-Door Station Wagon 6 cyl.	1840	2125	3965	1865	2240	4105	2195	2810	5005
1535P		1915	2155	4070	1940	2270	4210	2270	2840	5110
1635	4-Door Station Wagon 8 cyl.	1835	2135	3970	1860	2250	4110	2190	2820	5010
1635P		1915	2160	4075	1940	2275	4215	2270	2845	5115
1635T		1840	2150	3990	1870	2265	4135	2200	2835	5035

1500-1600 SERIES KINGSWOOD

1545	4-Door Station Wagon 6 cyl. *	1815	2200	4015	1845	2320	4165	2070	3445	5515
1545P		1905	2225	4130	1925	2350	4275	2150	3475	5625
1645	4-Door Station Wagon 8 cyl. *	1820	2195	4015	1845	2320	4165	2070	3445	5515
1645P		1900	2220	4120	1925	2345	4270	2150	3470	5620
1645T		1830	2210	4040	1845	2335	4180	2075	3460	5535

1700-1800 SERIES NOMAD

1735	4-Door Station Wagon 6 cyl.	1845	2140	3985	1875	2250	4125	2200	2825	5025
1735P		1930	2160	4090	1955	2275	4230	2275	2855	5130
1835	4-Door Station Wagon 8 cyl.	1840	2135	3975	1865	2250	4115	2185	2830	5015
1835P		1920	2160	4080	1945	2275	4220	2265	2855	5120
1835T		1845	2150	3995	1875	2265	4140	2195	2845	5040

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 105 pounds to the sedan delivery, sedan pickup, and station wagons except the 9 passenger models. Add 111 to the 9 passenger station wagon, 123 to all other models. For the weight of water add 35 pounds to the 6 cyl. models, 37 pounds to the 283 V-8 models, and 44 pounds to the 348 V-8 models.

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

Example:

Model 1119 (6 passenger) ------- 3760+900 = 4660

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

Example:

Model 1119 ---------- 3760+600 = 4360

Note: Eight cylinder engine weights shown are for the standard 283 cu. in. V-8. For the optional 348 cu. in. V-8 add 145 pounds to front and total shipping weights, 152 pounds (engine weight plus water) to front and total curb and loaded weights.

P - Powerglide; T - Turboglide * - 9 passenger

TAXI-CAB EQUIPMENT (RPO 330)

MODEL APPLICATION: 4-Door Sedans
Biscayne 1119 (6 cyl.) & 1219 (V8)
Bel Air 1519 (6 cyl.) & 1619 (V8)

BODY EQUIPMENT

INTERIOR TRIM
- Biscayne
  - Standard ---------- Cloth/vinyl, gray
  - Optional ---------- All vinyl, gray
- Bel Air
  - Standard ---------- Cloth/vinyl, gray
  - Optional ---------- All vinyl, gray

FLOORS, FRONT AND REAR
- Covering ---------- Waterproof asphalt impregnated paper felt, .125 minimum thickness.
- Mats ---------- Black rubber (no spatter design) .125 minimum thickness. Styling identical to regular production including reinforcing patch under accelerator pedal. Regular production jute backing deleted.

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 (front jamb switches regular production on Bel Air models).
- Armrests ---------- Rear armrests furnished on Biscayne models (regular production on Bel Air models).
- Glass (rolling only) ------ Safety solid plate "Tuflex"
- Rear door hinges ---------- 80° wide opening type (regular production - 64°).

INSTRUMENT PANEL
- Trim molding ---------- Imprinted ignition lock positions "ACC" - "OFF" "ON" "START"
- Door warning lamp
  - Lens ---------- Red plastic, 1.125 dia.
  - Bracket ---------- Bright metal
  - Location ---------- Under instrument panel, left of steering column.
  - Switch ---------- All door jambs

CHASSIS EQUIPMENT

WHEELS
- Type ---------- Short spoke disc
- Size ---------- 15 x 5K

FUEL TANK (LPO 1151A)
- Capacity (gal) ---------- 22

TIRES
- Type ---------- Tubeless, blackwall, rayon
- Size ---------- 6.70 x 15-4 pr

SUSPENSION
- Coil Springs
  - Type ---------- Heavy duty
  - Front
    - 6 Cylinder models
      - Part number ---------- 3746853
      - Capacity at ground ---------- 1130
    - V8 models
      - Part number ---------- 3752906
      - Capacity at ground ---------- 1175
  - Rear
    - All models
      - Part number ---------- 3758764
      - Capacity at ground ---------- 1315
- Wheel Bearings
  - Type
    - Front, inner & outer -- Heavy duty, tapered roller
    - Rear ---------- Heavy duty, roller
- Spherical Joints, Front
  - Type ---------- Metal lined
- Lower Control Arm Bushings, Rear
  - Type ---------- Heavy duty; inner and outer metal sleeves with rubber insert
- Shock Absorbers
  - Type ---------- Heavy duty
  - Piston Diameter ---------- 1.625
  - Piston Travel
    - Front ---------- 4.94
    - Rear ---------- 8.43

ENGINE EQUIPMENT

ALL MODELS
- Clutch Lever Shaft ---------- Lubrication fitting provided
- Ignition Switch ---------- "Accessory" position provided in place of "Lock"

SIX CYLINDER MODELS
- Spark Plugs ---------- AC 46
- Distributor ---------- Positive ground via wire to coil bracket
- Clutch ---------- 11" heavy duty (see Engine & Clutch, Page 41)
- Carburetor
  - Model
    - 3-speed ---------- 7013955
    - Powerglide ---------- 7013956

POLICE CAR EQUIPMENT

MODEL APPLICATION: 2-Door Sedan - Biscayne 1111 (6 cyl.)
- Biscayne 1211 (V8)
4-Door Sedan - Bel Air 1519 (6 cyl.)
- Bel Air 1619 (V8)
4-Door Station - Brookwood 1135 (6 cyl.)
Wagon (6 Pass) Brookwood 1235 (V8)

BODY EQUIPMENT
(LPO 1105)

INTERIOR TRIM
- Biscayne
  - Standard ---------- Cloth/vinyl, gray
  - Optional ---------- All vinyl, gray
- Bel Air
  - Standard ---------- Cloth/vinyl, gray
  - Optional ---------- All vinyl, gray
- Brookwood ---------- All vinyl, gray

FLOORS
- Covering
  - Front, all models -------- Waterproof asphalt impregnated paper felt, .125 minimum thickness.
  - Rear, sedans only ---------- Same as front
- Mats
  - Front, all models ------- Black rubber (no spatter design) .125 minimum thickness. Styling identical to regular production including reinforcing patch under accelerator pedal. Regular production jute backing deleted.
  - Rear, sedans only---------- Same as front except reinforcing patch is omitted.

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

SUNSHADE, R.H.
- Regular Production ---------- Bel Air models; provided on Biscayne & Brookwood models

CHASSIS EQUIPMENT
(LPO 1108)

WHEELS
- Type ---------- Short spoke disc
- Size ---------- 15x5K

TIRES
- Type ---------- Tubeless, blackwall rayon
- Size
  - Sedans ---------- 6.70x15-4 pr
  - Station wagons ---------- 6.70x15-6 pr

SUSPENSION
- Coil Springs, Front
  - Capacity at ground ---------- 1150
  - Type ---------- Heavy duty
- Shock Absorbers, Front & Rear
  - Type ---------- Heavy duty
  - Piston Diameter ---------- 1.625
  - Piston Travel
    - Front ---------- 4.94
    - Rear ---------- 8.43
- Spherical Joints, Front
  - Type ---------- Metal lined
- Lower Control Arm Bushings, Rear
  - Type ---------- Heavy duty
- Front Stabilizer Bar
  - V8 & station wagons ---------- Regular production
  - 6 cyl. sedans ---------- Provided

WHEEL BEARINGS
- Front, inner and outer - Heavy duty, tapered roller
- Rear ---------- Heavy duty, roller

BRAKES
- Lining
  - Material ---------- Sintered iron, segmented
  - Method of attachment ---------- Riveted
- No. of segments per shoe
  - Front
    - Primary ---------- Six
    - Secondary ---------- Twelve
  - Rear
    - Primary -------- Six, Secondary ------- Ten

AIR CONDITIONING EQUIPMENT (FOA 110)

COMPRESSOR
- Make ---------- Frigidaire
- Type ---------- 5 cylinder reciprocating
- Clutch Coil, Ohms (@80°F) ---------- 4.18-4.28
- Amperes (@ 80 F) ----------2.86@ 12 volts
- Oil, Type ----------Frigidaire 525 viscosity
- Capacity (Oz) ---------- 13
- Pulley Diameter (nominal) ---------- 5.31
- Ratio (compressor to engine) ---------- 1.25:1
- Drive ---------- Rotating socket plate

REFRIGERANT
- Type ---------- Freon 12
- Capacity (lb) ---------- 4.5

CONDENSER
- Type ---------- Tube and fin
- Material ---------- Steel brazed with cadmium or zinc plate
- Location ---------- Mounted in front of radiator to radiator support

RECEIVER-DEHYDRATOR
- Material ---------- Heavy gage drawn steel tube
- Location ---------- Right side of condenser
- Function, Receiver --------- Reservoir for storage of high pressure liquid
- Dehydrator ---------- Accumulate moisture and trap foreign material

EVAPORATOR
- Location ----------Right cowl plenum chamber
- Core Size (Sq. In) ---------- 125.0
- Cooling and Heating Coil Material --------- Copper tubes and button fins

TEMPERATURE REGULATOR
- Type ---------- Hot gas by-pass valve
- Location ---------- On compressor

PRESSURE RELIEF VALVE
- Opens (approx) ---------- 440-450 psi
- Closes (approx) ---------- 300 psi

BLOWER MOTOR
- Volts ---------- 12
- Amperes (cold) ---------- 14.3 (max)
- Speed (cold) ---------- 3550 rpm

ENGINE IDLE SETTING
- Auto Trans in Drive ---------- 450 rpm
- Std Trans in Neutral ---------- 450 rpm
- Fast Idle "Full On", Compressor Engaged and Transmission in Neutral ---------- 900 rpm

FRONT SPRINGS
For detailed information see Page 3, Chassis Section

SHOCK ABSORBERS, FRONT
- Model Number ---------- F539G 63A
- Piston Diameter and Travel ----------1.25; 4.9375

CRANKSHAFT PULLEY
- Type ---------- Dual groove

WATER PUMP AND FAN PULLEY
- Type ---------- Dual groove

FAN
- Number of Blades ---------- 5, staggered
- Diameter ---------- 18.00

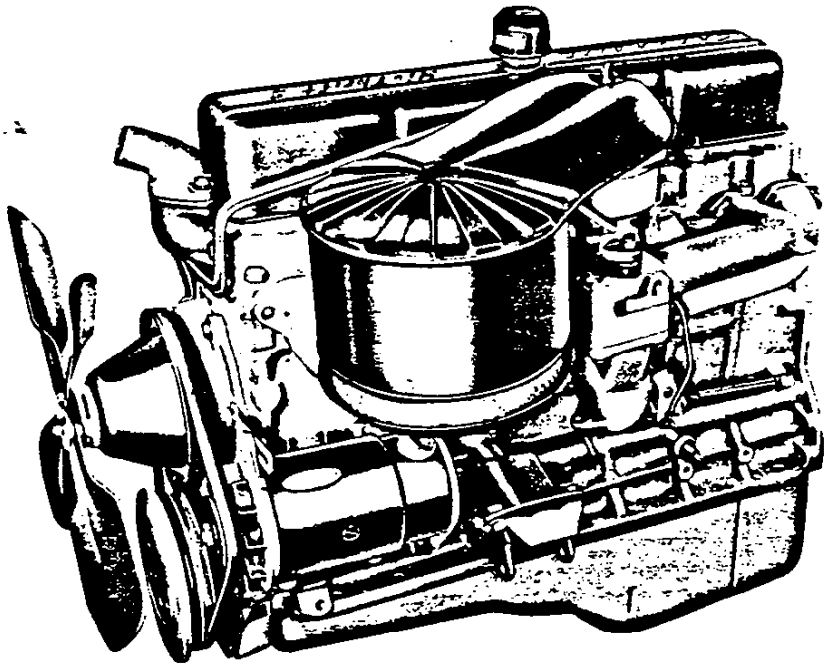
FAN BLADE CLUTCH
- Type -------- Temperature modulated viscous drive
- Fan speed limited at ---------- 3100 rpm

COMPRESSOR BELT
- Pitch Line Length, 283 Cu In V-8 ---------- 58.50
- 348 Cu In V-8 ---------- 60.00

GENERATOR
- Model ---------- 1102114
- Amperes ---------- 35

VOLTAGE AND CURRENT REGULATOR
- Model, 283 Cu In V-8 ---------- 1119002
- 348 Cu In V-8 ---------- 1119235

ENGINES AND CLUTCHES



HI-THRIFT SIX CYLINDER ENGINE

HI-THRIFT SIX CYLINDER ENGINE 2

283 CUBIC INCH V-8 ENGINE 10

348 CUBIC INCH V-8 ENGINE 26

CLUTCHES 41

GENERAL DATA

Engine		Conventional		Powerglide
Piston displacement (cu. in.)		235.5		
Type		Valve-in-head		
Number of cylinders		6		
Bore and stroke (nominal)		3.56 x 3.94		
Compression ratio		8.25:1		
Taxable (SAE) horsepower		30.4		
Idling speed (RPM)		475 in neutral		425 in drive
Compression press. (PSI) @ cranking speed, engine hot		130		
Dry weight (pounds)	Engine and clutch	605		555
	With transmission	670	700+	775
Lubrication		Full pressure		
Power plant mounting		Three point mounting, two front and one rear; combination compression and shear type		
Measurements (inches)	Fan to rear of clutch housing	41.26		36.37
	Front of cylinder block to rear of clutch housing	34.26		29.37
	Length of cylinder block	27.95		
	Top air cleaner to bottom oil pan	29.30		
	Crankcase vent tube to air cleaner (width)	25.75		

ADVERTISED MAXIMUM ENGINE PERFORMANCE

Engine		Conventional and Powerglide
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
			O. D. locked out	O. D. locked in	
Rear axle ratio		3.55:1	3.70:1		3.36:1
Tire size		7.50 x 14-4$			
Crankshaft revolutions per mile		2801.0	2919.3	2043.5	2651.0
Crankshaft RPM@ 1 MPH	Low and rev.	137.3	143.2	100.2(143.2 Rev)	80.4
	Second	78.5	81.8	57.3	
	Third¢	46.7	48.7	34.1	44.2
Piston travel (ft./mile)		1837.5	1915.1	1340.5	1739.1

¢ - Also known as N/V factor
\+ - Overdrive transmission
$ - 8.00 x 14-4 pr tires standard on 1767 and station wagon models.

ADVERTISED CAR PERFORMANCE

Transmission	3-Speed	3-Speed with Overdrive (RPO 315)		Powerglide (RPO 313)
		Locked out	Locked in	
Model	1519			
Performance weight (pounds) +	4360	4395		4465
Pounds/gross horsepower	32.30	32.56		33.07
Pounds/cu. in. displacement	18.51	18.66		18.96
Gross horsepower/cu. in. displacement	.573			
Power displacement (cu. ft./mile) %	189.7	197.7	138.4	179.5**
Displacement factor (cu. ft./ton mile) #	87.0	90.0	63.0	80.4**

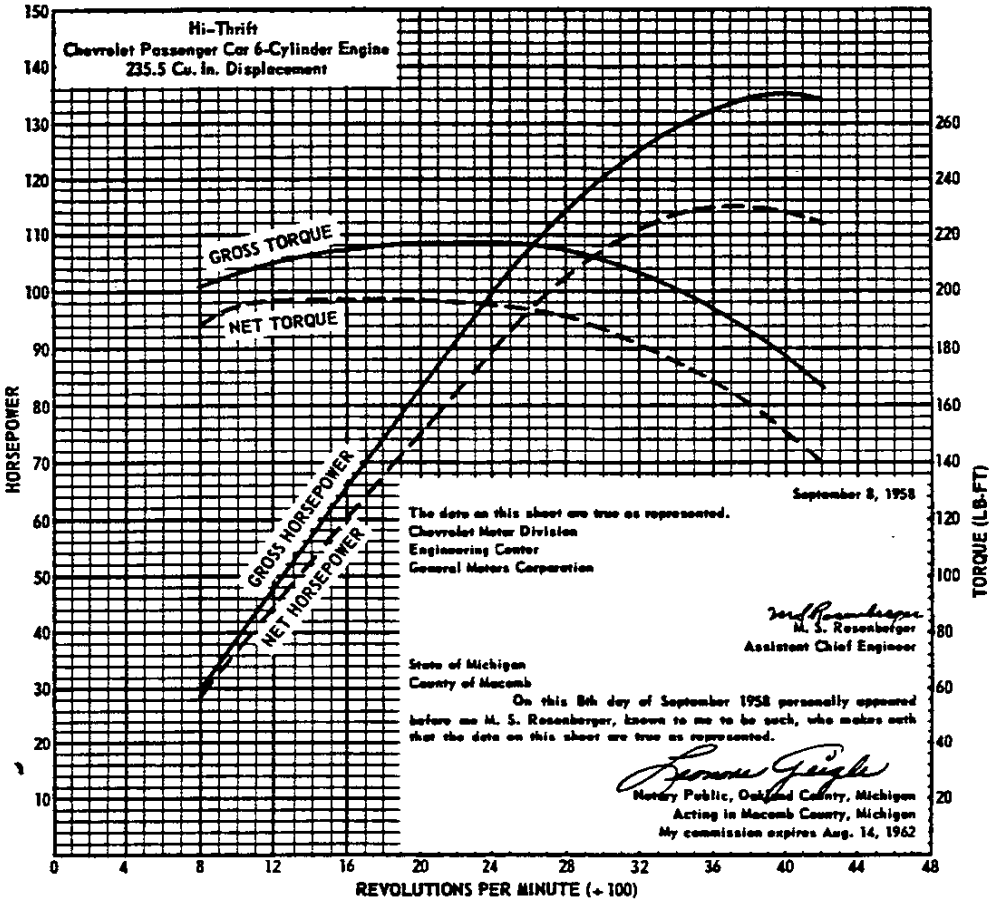
** - Data computed assuming zero slippage in torque converter.

\+ - Curb weight plus 600 # (four 150 # passengers).

% - $\frac{\text{Crankshaft revolutions per mile X piston displacement} \div 2}{1728}$

\# - Power displacement divided by performance weight in tons.

HI-THRIFT SIX CYLINDER ENGINE



The engine performance curves shown on this sheet are taken from Chevrolet engine test report 18334-20 They represent the full throttle performance of a new Hi-Thrift 135 six cylinder passenger car engine with 235.5 cubic inch displacement, as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and the 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, and optimum spark advance.

NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle. It includes the use of the regular muffler and pipes, the fan in operation and automatic spark advance. The generator is not charging.

CONNECTING RODS - Cont'd
Bearings - Cont'd
Clearance ---------- .0007-.0027
End play ---------- .005-.010
Inside diameter ---------- 2.3132
Projected area (Sq. In.) ---------- 2.332

VALVES
Inlet
Material ---------- High alloy steel (8645)
Stem to guide clearance ---------- .0010-.0027
Lift ---------- .3275
Exhaust
Material ---------- High alloy steel (21-4N)
Stem to guide clearance ---------- .0010-.0027
Lift ---------- .3275

VALVE SPRINGS
Length and Pressure
Valve closed-inlet & exhaust ---- 1.858 @ 62-68 lb.
Valve opened-inlet & exhaust -- 1.528 @ 158-168 lb.
Free length-inlet & exhaust ---------- 2.16
Valve spring dampers ---------- None

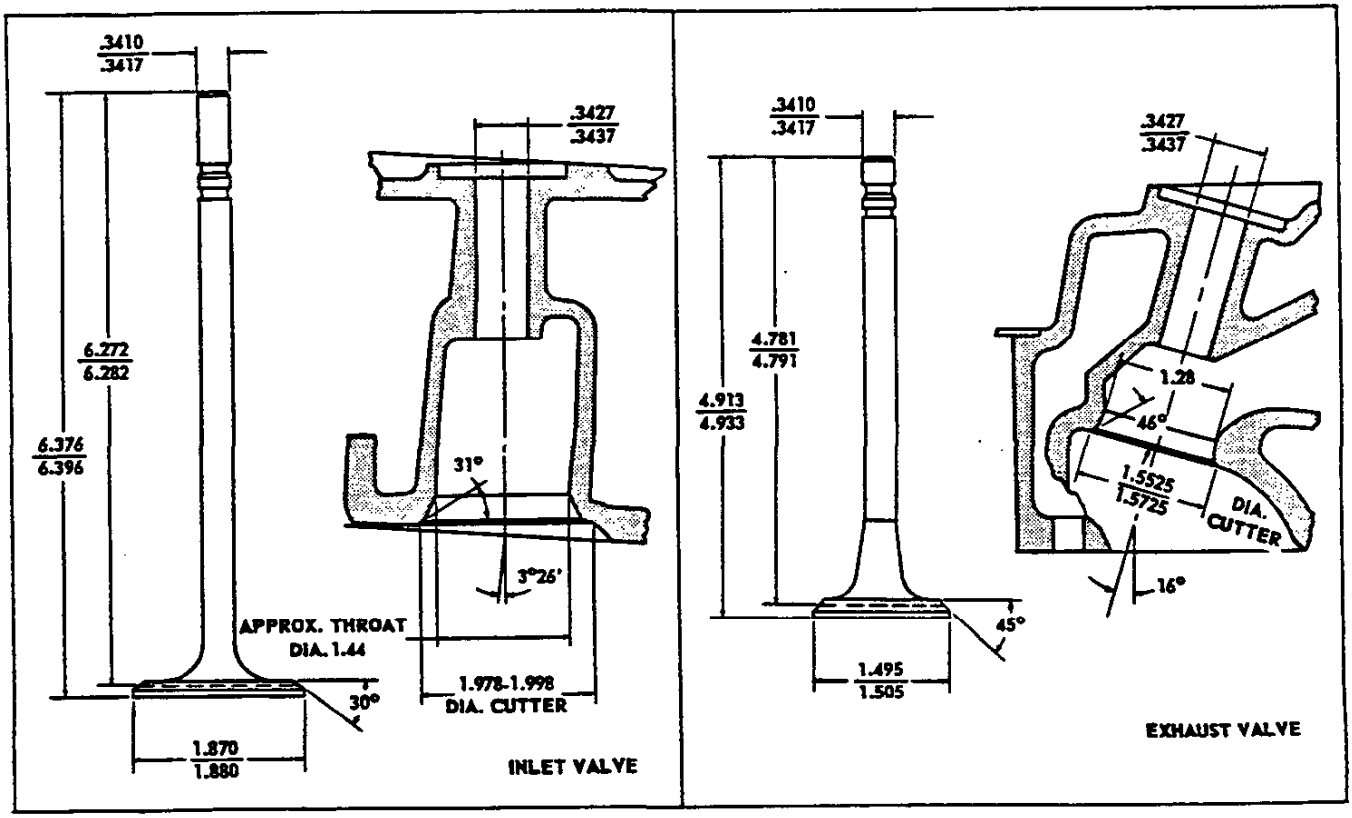
VALVE TIMING (Theoretical)
Intake
Opens ---------- 16° BTC
Closes ---------- 48° ABC
Exhaust
Opens ---------- 46° 30' BBC
Closes ---------- 17° 30' ATC

PISTONS
Material ---------- Cast alloy aluminum
Type ---------- Flat head, controlled expansion
Weight ---------- 18.08 oz.
Top Land Clearance ---------- .033-.042
Skirt Clearance ---------- .0006-.0010
Compression Ring Groove Depth ---------- .199-.205
Oil Ring Groove Depth ---------- .199-.205

PISTON PINS
Material ---------- Chromium steel
Type ---------- Locked in rod
Length ---------- 3.168-3.198
Diameter ---------- .8660-.8665
Clearance ---------- .00015-.00025
Direction of Offset ---------- Major thrust side

COMPRESSION RINGS
Type
Upper and lower ---------- Thick wall, inside bevel or counterbore
Material ---------- Cast alloy iron
Coating ---------- Wear resistant
Width ---------- .0930-.0935
Wall Thickness ---------- .168-.178
Gap ---------- .007-.017

OIL RINGS
Type - Multi-piece (two chrome rails and one spacer)
Material
Rails ---------- Steel
Spacer ---------- Stainless Steel
Coating ---- Upper & lower rails chrome plated O.D.
Width ---------- .224-.231
Gap (rails) ---------- .015-.055
Wall Thickness (rails) ---------- .150-.156



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
- Hydraulic Lifters ---------- Pressure
- Timing Gear ---------- Nozzle sprayed

OIL PUMP
- Type ---------- Gear
- Normal Oil Pressure ---------- 35 PSI @ 2000 RPM
- Intake Type ---------- Fixed
- Capacity (GPM @ engine RPM) 4.01-4.22 @ 1170-1200

CRANKCASE CAPACITY (quarts)
- Dry ---------- 5.5
- Refill ---------- 5.0

OIL FILTER (RPO 237)
- Make and Type ---------- AC, partial flow
- Capacity (dry) ---------- 1 qt.
- Replacement Type ----------Element

OIL PRESSURE GAUGE
- Type---------- Electric

LUBRICANT GRADES AND TEMPERATURES

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

CRANKCASE VENTILATION
- Type ---------- Road draft

FUEL AND EXHAUST SYSTEM

FUEL TANK
- Capacity (gallons)
  - Station Wagon and Sedan Delivery ---------- 17*
  - All others ---------- 20
- Filler Location
  - Station Wagon and Sedan Delivery --------- Behind LR quarter panel
  - All others ---------- At center of body back lower panel to rear of hinged license plate bracket

FUEL FILTER
- In Fuel Tank ---------- Screen
- In Carburetor Inlet ---------- Sintered bronze filter

FUEL GAUGE (Tank Unit)
- Make and Type ---------- AC, electric

FUEL PUMP ASSEMBLY
- Make ---------- AC
- Type ---------- Mechanical
- Location -------- Lower right front corner of engine
- Pressure Range ---------- 3.50-4.50 PSI

*-9-passenger station wagon has 18 gal. capacity.

CARBURETOR
- Make ---------- Rochester Products
- Model
  - Regular ---------- 7013003
  - Powerglide ---------- 7013000
- Type ---------- Single barrel, downdraft
- SAE Flange Size ---------- 1.50
- Venturi Inside Diameter ---------- 1.34
- Choke ---------- Automatic
- Throttle Bore ---------- 1.5625

AIR CLEANER
- Type
  - Regular ---------- Oil wetted
  - RPO 216 ---------- Oil bath

EXHAUST SYSTEM
- Type ---------- Single, diffusion resonance
- Muffler ---------- Reverse flow
- Exhaust Pipe Outside Diameter ---------- 2.00
- Tailpipe Inside Diameter ---------- 1.81

COOLING SYSTEM

GENERAL
- Type
  - Pressure, with full length water jackets around cylinders.

THERMOSTAT
- Make ---------- Harrison
- Type ---------- Pellet
- Begins to Open @ ---------- 167-172°F
- Fully Opened @ ---------- 192°F

RADIATOR
- Make and Type ---------- Harrison, tube on center
- Core Constant and Thickness
  - Regular ---------- .28 x .55 x 1.75
  - Powerglide ---------- .25 x .55 x 1.75
- Frontal Area ---------- 390 sq in
- Capacity,(quarts)
  - 3-Speed transmission
    - Less heater ---------- 17
    - With heater ---------- 18
  - Powerglide transmission
    - Less heater ---------- 16.5
    - With heater ---------- 17.5

RADIATOR HOSE
- Outlet, lower (radiator to water pump) ---- 1.75 I.D.
- Inlet, upper (thermostat hsg. to rad.) ----- 1.50 I.D.

RADIATOR CAP
- Type ---------- Pressure
- Valve Opens at ---------- Approx. 13 PSI

WATER PUMP
- Type ---------- Centrifugal
- Capacity ---------- 55 GPM @ 4000 RPM
- Drive ---------- Fan belt
- Bearing ------ Permanent lubricated double row ball

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COOLING SYSTEM - Continued

FAN
- Number of Blades ---------- 4, staggered
- Diameter ---------- 17.62
- Ratio (fan to engine RPM) ---------- .949:1

FAN AND GENERATOR BELT
- Number Used ---------- One
- Angle of "V" ---------- 37°-44°
- Pitch Line Length ---------- 40.50
- Width ---------- .375
- Fan Pulley Size (pitch diameter) ---------- 7.00

ELECTRICAL SYSTEM

GENERATOR
- Make and Model ---------- Delco-Remy, 1102096
- Type ---------- Two brush, shunt wound
- Drive ---------- By fan belt
- Pulley size ---------- 2.88 P.D.
- Generator RPM/MPH ---------- Approx. 107
- Maximum Generator Output RPM (Hot) ---------- 2450
- Eng. RPM @ Max. Gen. Output ---------- 1065
- Car MPH (high gear) @ Max. Gen. Output ---------- 22.9
- Ratio (Generator to engine) ---------- 2.30:1
- Rating:
  - Amps ---------- 30
  - Volts ---------- 12-15

OPTIONAL GENERATOR EQUIPMENT
- 35 Amp. (RPO 338) ---------- 1102114
- 40 Amp. (RPO 326) Medium duty ---------- 1105123
- 50 Amp. (RPO 378) Low cut-in ---------- 1106985

BATTERY
- Make and Model ---------- Delco, 1980458
- Voltage Rating ---------- 12
- Capacity ---------- 53 amp hr. at 20 hr. rate
- Plates per Cell ---------- 9
- Terminal Grounded ---------- Negative
- Location ---------- Front of engine compartment near radiator baffle

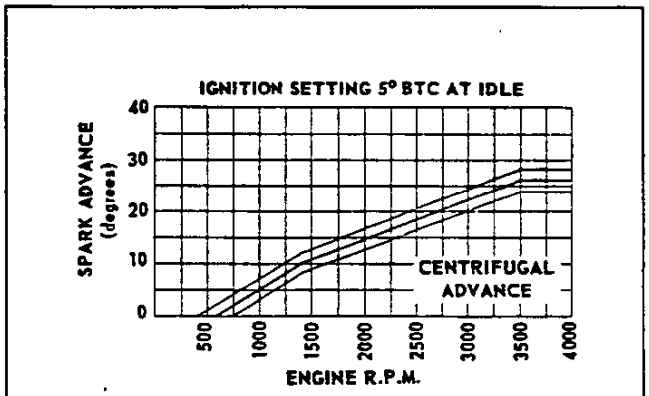
VOLTAGE AND CURRENT REGULATOR
- Make and Model ---------- Delco-Remy, 1119001
- Type ---------- Vibrator
- Cutout Relay
  - Closing voltage @ generator RPM - 11.8-13.5@1300
- Voltage Regulator
  - Voltage ---------- 13.8-14.8
- Current Regulator
  - Amperes ---------- 27-33

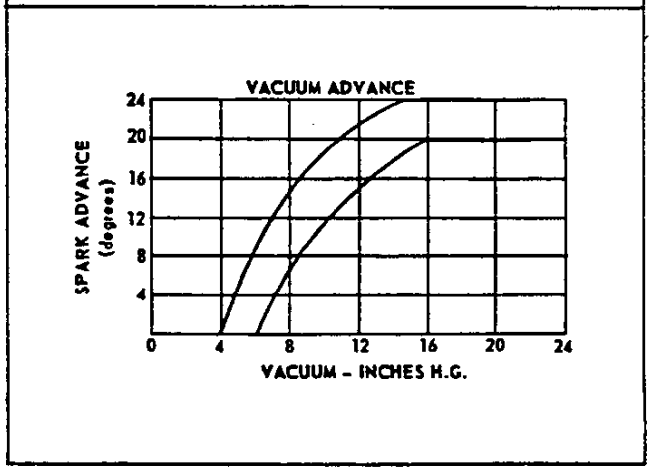
STARTING MOTOR
- Make and Model ---------- Delco-Remy, 1107652
- Rotation (Drive end view) ---------- Clockwise
- Test Conditions ---- Engine at operating temperature
- No Load Test
  - Amps ---------- 49-76
  - Volts ---------- 10.6
  - RPM ---------- 6200-6900

Drive
- Engagement type ---------- Solenoid
- No. of teeth ---------- 9
- Gear ratio (flywheel to starter) ---------- 18.6:1
- Flywheel tooth face width ---------- .4135

STARTING
- Ignition Switch ---------- 4 positions: Locked off, unlocked off, on, and start.
- Starting Procedure
  - Turn ignition key to extreme right after placing shift lever in neutral and depressing clutch
  - Powerglide models - Place selector lever in Park or Neutral

DISTRIBUTOR
- Make and Model ---------- Delco-Remy, 1112403
- Breaker Gap ---------- .016-.021
- Cam Angle ---------- 28°-35°
- Breaker Arm Tension ---------- 19-23 oz.
- Spark Advance Data
  - Centrifugal advance begins (RPM) ---------- 450-750
  - Centrifugal advance max. degrees @ RPM ---------- 24°-28° @ 3500
  - Vacuum advance begins (inches Hg) ---------- 6
  - Vacuum advance max. degrees @ inches Hg ---------- 22@15.5





COIL

Make ---------- Delco Remy
Model ---------- 1115120
Amperes Drawn ---------- 4.0 engine stopped, 1.8 engine idling (500 RPM)

IGNITION TIMING

Crankshaft Degrees (initial setting) ---------- 5°BTC
Mark Location ---------- On flywheel
Firing Order ---------- 1-5-3-6-2-4

SPARK PLUG

Make and Model ---------- AC, 44
Thread Size ---------- 14mm
Gap ---------- .033-.038
Torque ---------- 25 lb. ft.

283 CUBIC INCH V-8 ENGINE

GENERAL DATA

Engine		Conventional		Powerglide	Turboglide
Piston displacement (cu. in.)		283			
Type		Valve-in-head			
Number of cylinders		8			
Bore and stroke (nominal)		3.875 x 3.000			
Compression ratio		8.5:1 @			
Taxable (SAE) horsepower		48			
Idling speed (RPM)		475 in neutral		450 in neutral	
Compression press. (PSI)@ cranking speed, engine hot		150**			
Dry weight (pounds)	Engine and clutch	605	610▼	545	530
	With transmission	665	700▼	770	685
Lubrication		Full pressure			
Power plant mounting		Three point mounting, two front and one rear; combination compression and shear type			
Measurements (inches)	Fan to rear of clutch housing	36.57		31.66	
	Front of cylinder block to rear of clutch housing	29.57		24.66	
	Length of cylinder block	23.28			
	Top air cleaner to bottom oil pan	29.54			
	Exhaust manifold to generator (width)	26.72			

ADVERTISED MAXIMUM ENGINE PERFORMANCE

Engine		Turbo-Fire	Super Turbo-Fire	Ramjet Fuel Injection	Ramjet Fuel Injection Special
Carburetor		2-barrel (Production)	4-barrel (RPO 410)	Fuel injection through nozzles at intake ports (RPO 578)	
Camshaft		Standard			Special
Brake horsepower	Gross	185@ 4600 RPM	230@ 4800 RPM	250@ 5000 RPM	290@ 6200 RPM
	Net	150@ 4200 RPM	175@ 4400 RPM	225@ 4800 RPM	245@ 5600 RPM
Torque (lb. ft.)	Gross	275@ 2400 RPM	300@ 3000 RPM	305@ 3800 RPM	290@ 4400 RPM
	Net	245@ 24-2800 RPM	255@ 2800 RPM	280@ 3400 RPM	265@ 4200 RPM

ENGINE SPEED AND PISTON TRAVEL

Transmission		3-Speed (Production)	Overdrive (RPO 315) Locked out	Overdrive (RPO 315) Locked in	4-Speed (RPO 685)	Powerglide (RPO 313)*	Turboglide (RPO 302)*
Rear axle ratio		3.55:1	3.70:1		3.55:1	3.36:1	
Tire size		7.50 x 14-4$					
Crankshaft revolutions per mile		2801.0	2919.3	2043.5	2801.0	2651.0	
Crankshaft RPM @ 1 MPH	Low	115.3	143.2	100.2	102.7	80.4	
	Reverse	130.8		143.2	105.5	80.4	
	Second	71.5	81.8	57.3	77.5		
	Third				61.2		
	Direct ¢	46.7	48.7	34.1	46.7	44.2	
Piston travel (ft/mile)		1400.5	1459.7	1021.8	1400.5	1325.5	

* - Data computed assuming zero slippage in torque converter.
** - 160 psi with 4-barrel carburetor and fuel injection with regular cam engines; 140 psi with fuel injection and special cam engine.
▼ - Overdrive transmission
@- 9.5:1 on Super Turbo-Fire and Fuel Injection; 10.5:1 on Fuel Injection Special engine.
$ - 8.00 x 14-4 tires standard on 1867, station wagon, Sedan Delivery and Sedan Pick-up.
¢ - Also known as N/V factor.
10-15-58 • Revised 3-23-59

ADVERTISED CAR PERFORMANCE

3-Speed Transmission	ENGINE			
	Turbo-Fire	Super Turbo-Fire	Ramjet Fuel Injection	Ramjet Fuel Injection Special
Model	1619			
Performance weight (pounds) +	4375	4390	4420	4420
Pounds per gross horsepower	23.65	19.09	17.68	15.24
Pounds per cu. in. displacement	15.46	15.51	15.62	15.62
Gross horsepower per cu. in. displacement	.654	.813	.883	1.025
Power displacement (cu. ft. mile) @	227.9	227.9	227.9	227.9
Displacement factor (cu. ft./ton mile) #	104.2	103.8	103.1	103.1

3-Speed w/Overdrive Transmission $

Performance weight (pounds) +	4415	4430		
Pounds per gross horsepower	23.86	19.26		
Pounds per cu. in. displacement	15.60	15.65		
Gross horsepower per cu. in. displacement	.654	.813		
Power displacement (cu. ft./mile) @	166.3	166.3		
Displacement factor (cu. ft./ton mile) #	753.3	75.1		

4-Speed Transmission

Performance weight (pounds) +			4435	4435
Pounds per gross horsepower			17.74	15.29
Pounds per cu. in. displacement			15.67	15.67
Gross horsepower per cu. in. displacement			.883	1.025
Power displacement (cu. ft./mile) @			227.9	227.9
Displacement factor (cu. ft./ton mile) #			102.8	102.8

Powerglide Transmission *

Performance weight (pounds) +	4480	4495	4525	
Pounds per gross horsepower	24.22	19.54	18.10	
Pounds per cu. in. displacement	15.83	15.88	15.99	
Gross horsepower per cu. in. displacement	.654	.813	.883	
Power displacement (cu. ft./mile) @	215.7	215.7	215.7	
Displacement factor (cu. ft./ton mile) #	96.3	96.0	95.3	

Turboglide Transmission *

Performance weight (pounds) +	4400	4415	4445	
Pounds per gross horsepower	23.62	19.20	17.78	
Pounds per cu. in. displacement	15.55	15.60	15.71	
Gross horsepower per cu. in. displacement	.654	.813	.883	
Power displacement (cu. ft./mile) @	215.7	215.7	215.7	
Displacement factor (cu. ft./ton mile) #	98.0	97.7	97.1	

* - Data computed assuming zero slippage in torque converter.

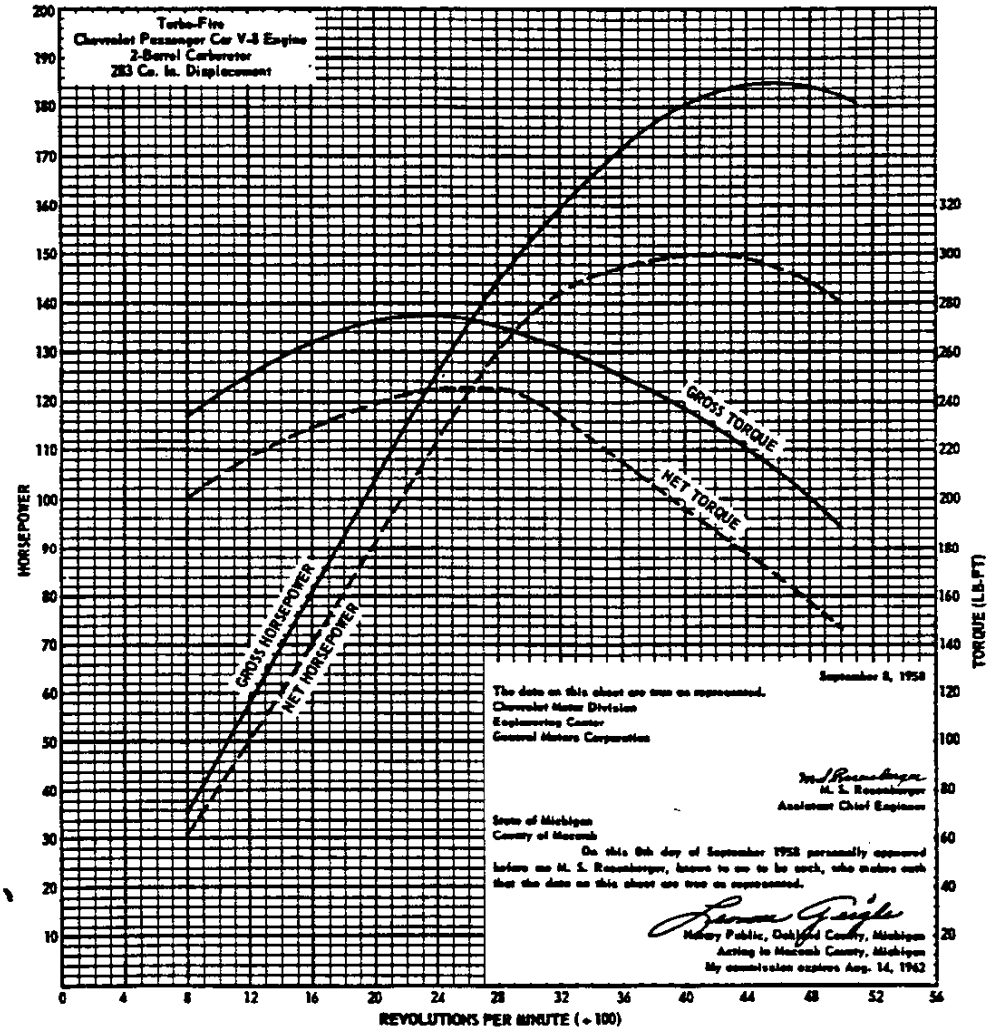
\+ - Curb weight plus 600 lb. (weight of four 150# passengers).

@ - $\frac{\text{Crankshaft revolutions per mile x piston displacement} + 2}{1728}$

\# - Power displacement divided by performance weight in tons.

$ - Overdrive locked in.

TURBO-FIRE 283 CUBIC INCH V-8 ENGINE

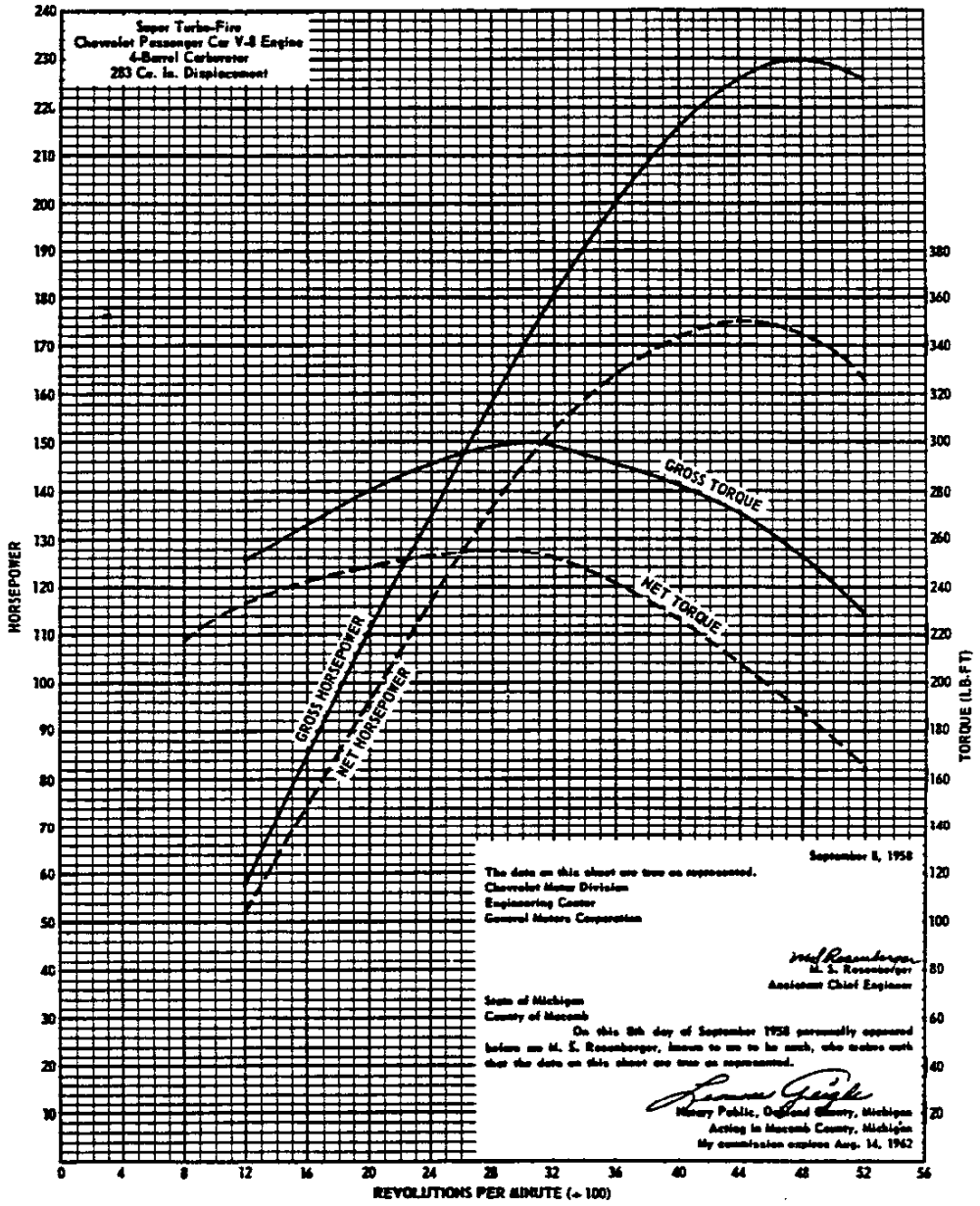


The engine performance curves shown on this sheet are taken from Chevrolet engine test report 17697-25. They represent the full throttle performance of a Turbo-Fire 283 Chevrolet passenger car engine with 283 cubic inch displacement, as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and the 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, and optimum spark advance.

NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle. It includes the use of the regular muffler and pipes, the fan in operation and automatic spark advance. The generator is not charging.

SUPER TURBO-FIRE 283 CUBIC INCH V-8 ENGINE

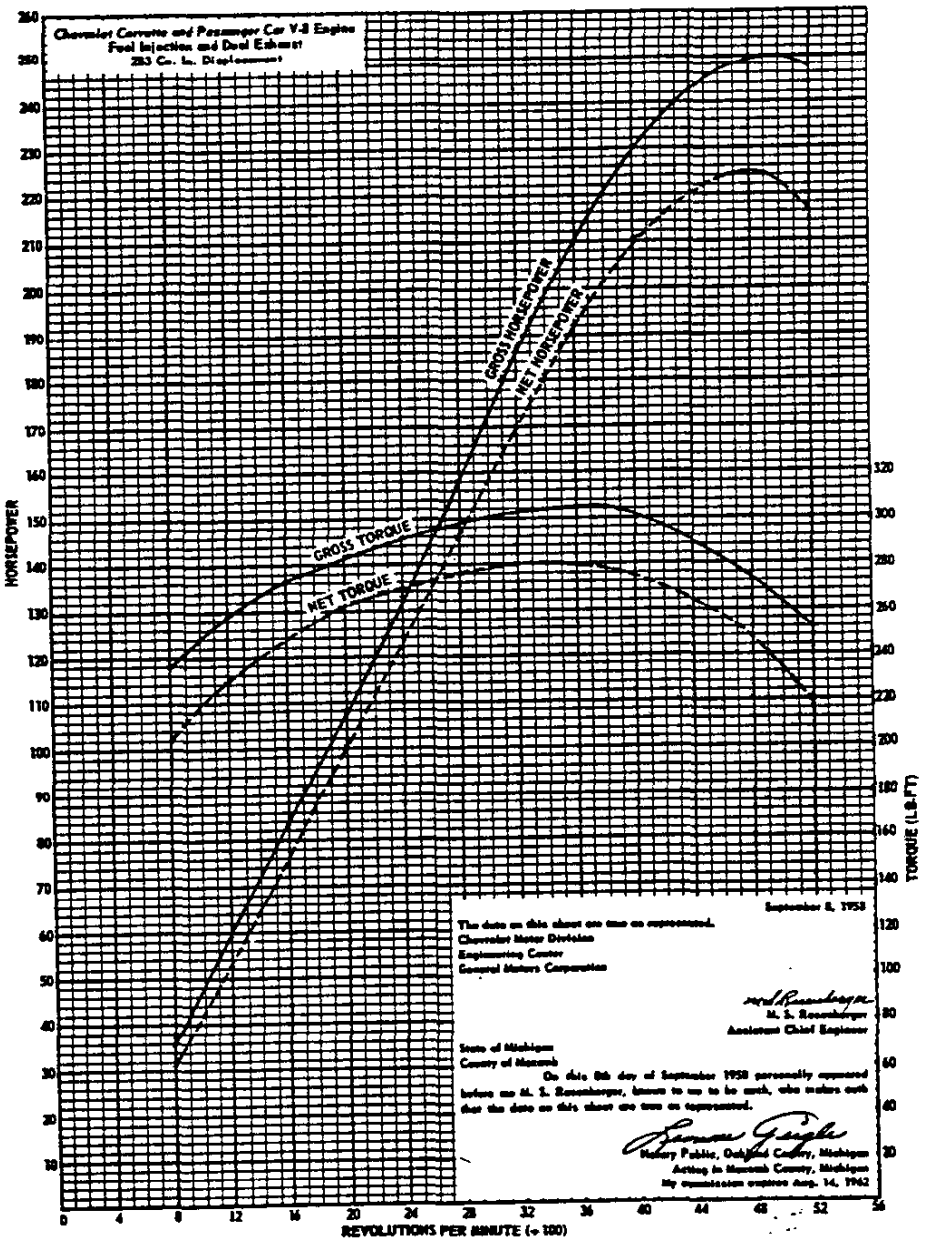


The engine performance curves shown on this sheet are taken from Chevrolet engine test report 18333-10. They represent the full throttle performance of a Super Turbo-Fire Chevrolet passenger car engine with 283 cubic inch displacement, as obtained from dynamometer test data corrected to standard barometric preasure 29.92 inches of mercury and the 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, and optimum spark advance.

NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle. It includes the use of the regular muffler and pipes, the fan in operation and automatic spark advance. The generator is not charging.

RAMJET FUEL INJECTION
283 CUBIC INCH V-8 ENGINE

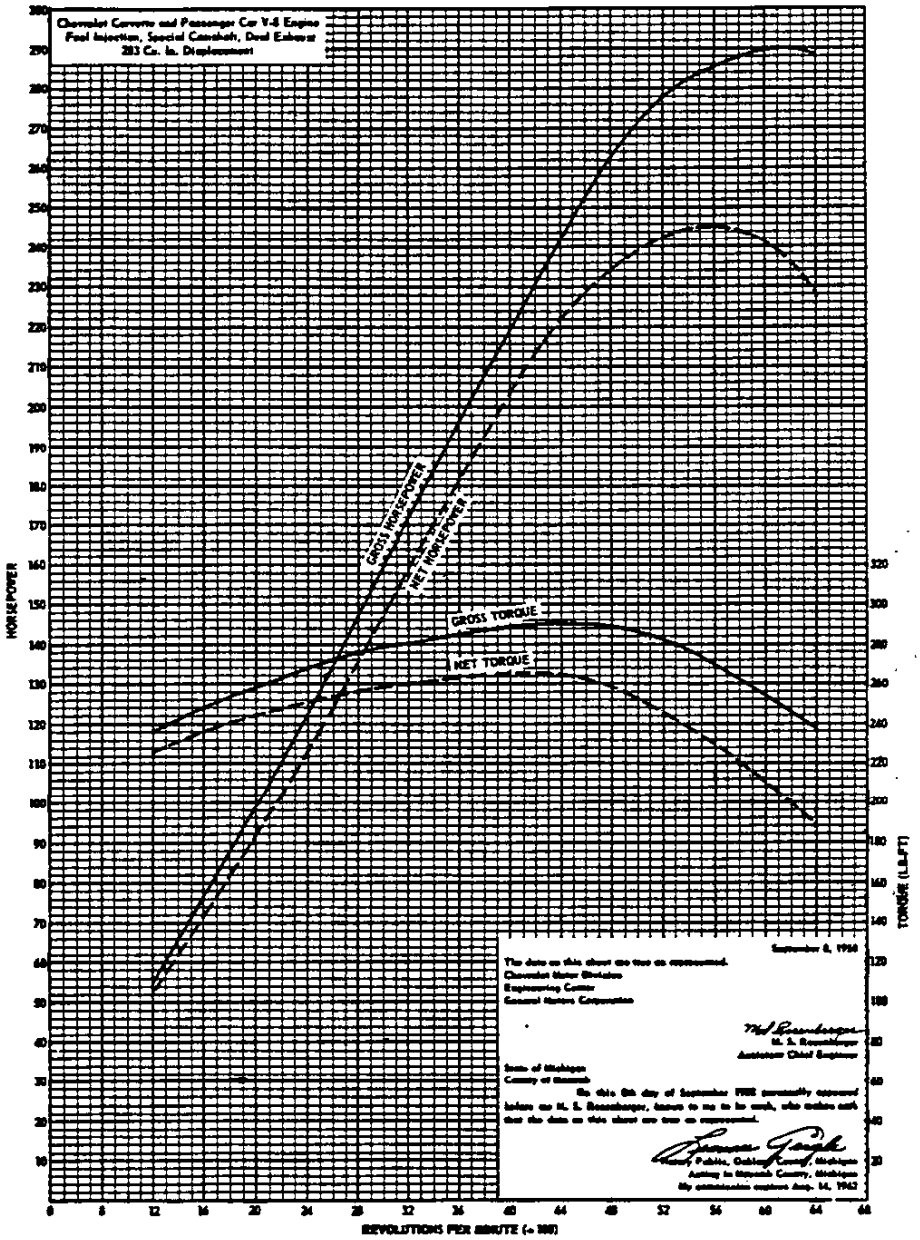


The engine performance curves shown on this sheet are taken from Chevrolet engine test report 17696-12. They represent the full throttle performance of a Chevrolet Corvette and passenger car V-8 engine with 283 cubic inch displacement, as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and the 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, and optimum spark advance.

NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle. It includes the use of the regular mufflers and pipes, the fan in operation and automatic spark advance. The generator is not charging.

RAMJET FUEL INJECTION
283 CUBIC INCH V-8 ENGINE
(With Special Camshaft)



The engine performance curves shown on this sheet are taken from Chevrolet engine test report 17696-12. They represent the full throttle performance of a Chevrolet Corvette V-8 engine with 283 cubic inch displacement, as obtained from dynamometer test data corrected to standard barometric pressure of 29.92 inches of mercury and the 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, and optimum spark advance.

NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle. It includes the use of the regular mufflers and pipes, the fan in operation and automatic spark advance. The generator is not charging.

ENGINE - 283 cu. in. V8	Turbo-Fire	Super Turbo-Fire	Ramjet Fuel Injection	Ramjet Fuel Injection Special

CYLINDER HEAD AND CASE

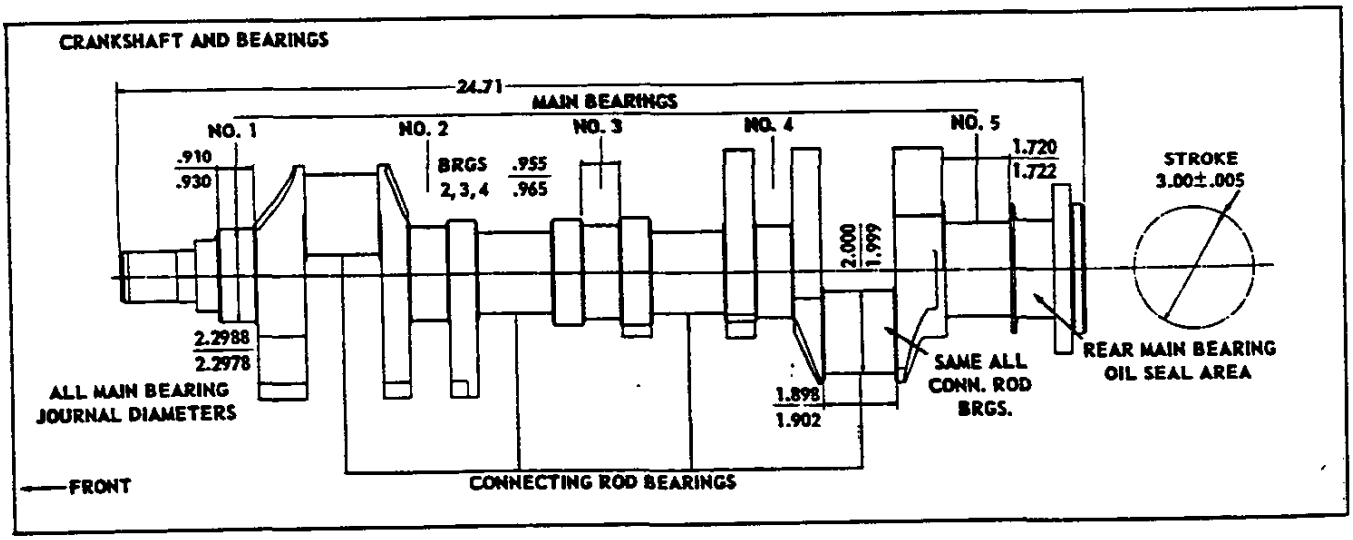
Material	Cast alloy iron
Bore Diameter	3.8745-3.8775
Head Bolt Torque	60-70 lb. ft.
No. of Cylinder Head Bolts	34

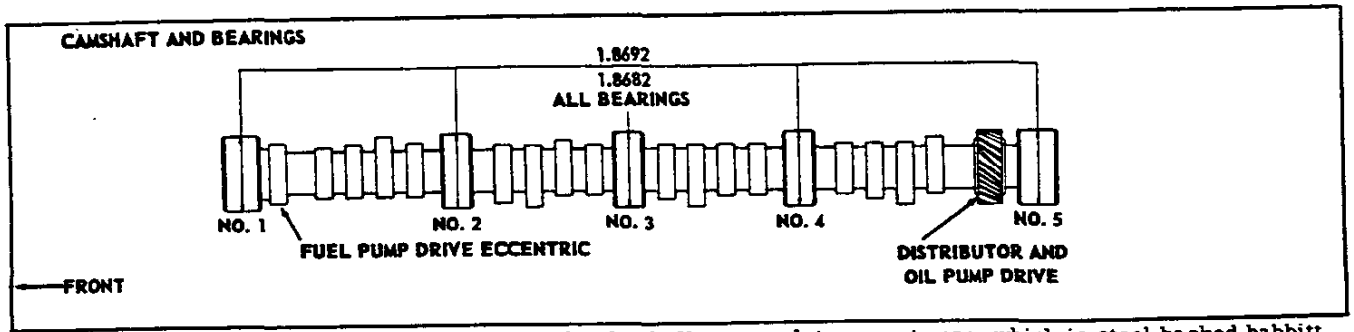
CRANKSHAFT

Material	Forged steel
End Play	.002-.006
Vibration Damper	Oscillating (rubber mounted)
Weight (pounds)	48
Counterweights	7
Crankshaft Pulley Diameter	6.64 P.D.

MAIN BEARINGS

Material	Steel backed babbitt	Premium*
Type	Precision, removable	
End Thrust Against Bearing	#5	
Dimensions		
Bearing #1 thru 4		
Theoretical I.D.	2.3004	
Effective length	.762	
Projected area	1.753 sq. in.	
Bearing #5		
Theoretical I.D.	2.3004	
Effective length	1.169	
Projected area	2.689 sq. in.	





* - Steel backed aluminum alloy matrix with a thin lead alloy overplate except rear, which is steel backed babbitt.

ENGINE - 283 cu. in. V8	Turbo-Fire	Super Turbo-Fire	Ramjet Fuel Injection	Ramjet Fuel Injection Special

CAMSHAFT

Make	Own
Material	Cast alloy iron

CAMSHAFT BEARINGS

Material	Steel backed babbitt
Dimensions	
Bearing #1 thru 4	
Theoretical I. D.	1. 8712
Effective length	. 740
Projected area	1. 385 sq. in.
Bearing #5	
Theoretical Length	1. 8712
Effective length	. 940
Projected Area	1. 759 sq. in.

CAMSHAFT DRIVE

Type	Chain and sprocket
Sprocket Material	
Crankshaft (drive)	Steel
Camshaft (driven)	Cast alloy iron
Timing Chain	
Make	Link belt
No. of links	46
Width	. 875
Pitch	. 500

VALVE MECHANISM

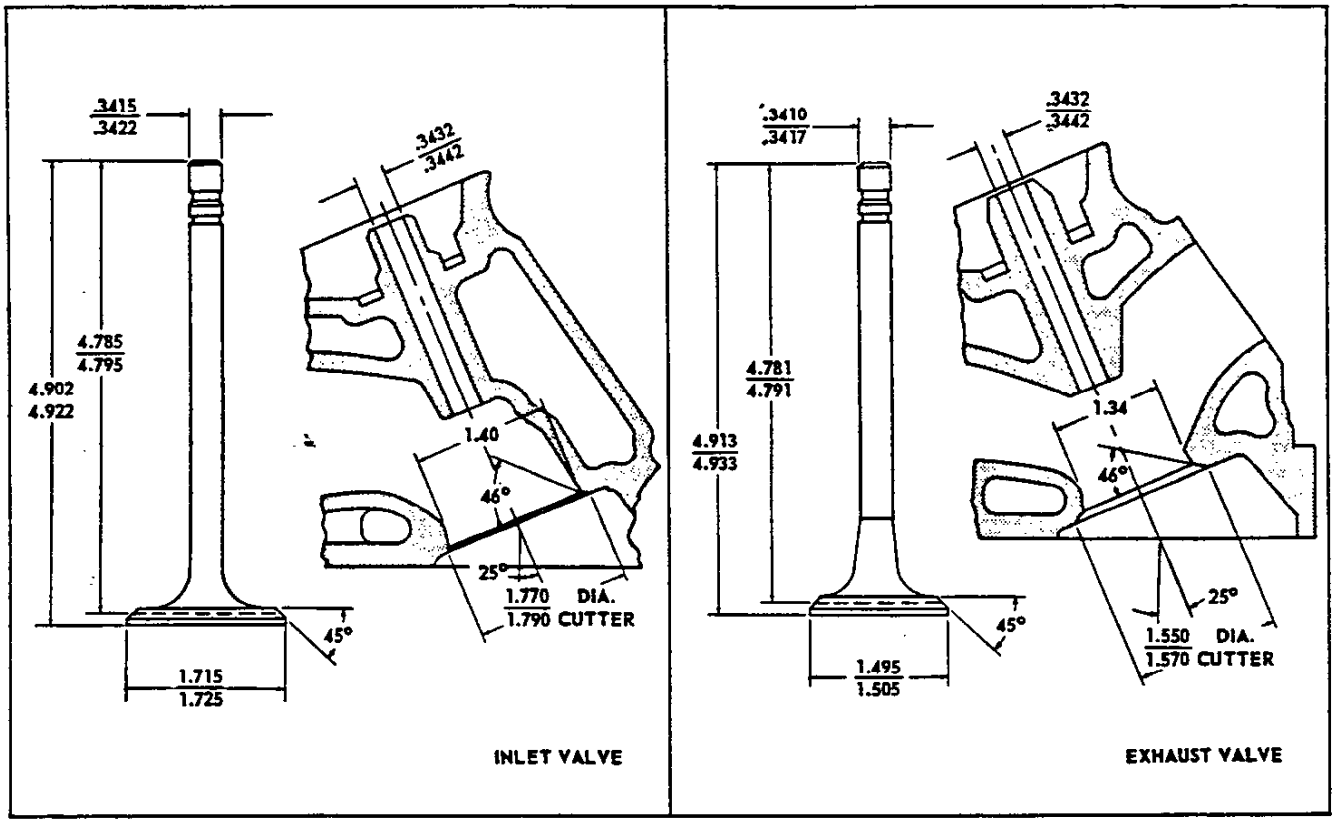
Type	Rocker arm, push rod actuated	
Lifters	Hydraulic	Mechanical
Body material		
Foot	Cast alloy iron	
Sleeve	Steel	
Plunger	Steel	
Push rod	Steel	
Rocker Arm Ratio	1. 5:1	
Valve Lash (hot)		
Inlet	Zero	. 012
Exhaust	Zero	. 018

VALVES

Inlet		
Material	High alloy steel (8645)	
Overall length	4. 9024-4. 9224	4. 8699-4. 8899
Stem to guide clearance	. 0010-. 0027	
Lift	. 3987	.39375
Exhaust		
Material	High alloy steel (21-4N)	
Overall length	4. 913-4. 933	4. 8905-4. 9105
Stem to guide clearance	. 0015-. 0032	
Lift	. 3987	. 39975

VALVE SPRINGS

Material	High alloy steel (GM63M)
Compressed Length	
Valve closed	
Inlet and exhaust	1. 696@ 69-79 lb.
Valve opened	
Inlet and exhaust	1. 306@ 159-169 lb.
Free length	
Inlet and exhaust	2. 08



ENGINE-283 cu. in. V-8	Turbo-Fire	Super Turbo-Fire	Ramjet Fuel Injection	Ramjet Fuel Injection Special

VALVE SPRING DAMPERS

No. of Coils		4
Free Length		2.00

PISTONS

Material	Cast aluminum alloy	
Type		
Head	Flat, notched	Dome, notched
Skirt	Slipper	
Weight (ounces)	20.96	25.60
Top Land Clearance	.035-.043	
Skirt Clearance	.0006-.0010	.0016-.0020
Groove Depth		
Compression ring	.2153-.2218	
Oil ring	.2093-.2158	

PISTON PINS

Material	Chromium steel
Type	Rod shrunk fit to pin
Length	2.990-3.010
Diameter	.9270-.9273
Clearance in Piston	.00015-.00025
Direction of Offset	Major thrust side

COMPRESSION RINGS

No. per Piston	Two
Type	
Upper and lower	Thickwall, inside bevel or counter bore

ENGINE - 283 cu. in. V-8	Turbo-Fire	Super Turbo-Fire	Ramjet Fuel Injection	Ramjet Fuel-Injection Special

COMPRESSION RINGS - Continued

Material	Cast alloy iron	
Coating		
Upper	Flash chrome plating	.004-.007 chrome plating
Lower	Wear resistant	
Width	.0775-.0780	.0770-.0780
Gap	.010-.020	
Wall Thickness	.184-.194	

OIL CONTROL RINGS

No. per Piston	One	
Type	Multi-piece (2 steel rails and one spacer)	
Material-Spacer	Steel	Cast alloy iron
Coating Upper and lower rails	Chrome plated O. D.	
Width	.224-.231	.1860-.1865
Gap	.015-.055	.010-.020
Wall Thickness	.150-.156	.152-.158

CONNECTING RODS

Material	Drop forged steel	
Length (center to center)	5.699-5.701	
Bearings		
Material	Steel backed babbitt	Premium*
Type	Precision, removable	
Effective length	.817	
Clearance	.0007-.0027	
End play	.008-.014	
Theoretical I. D.	2.0012	
Projected area	1.635 Sq. In.	

TIMING DIAGRAM DATA

Inlet Valve		
Opens - BTC	12°30'	35°
Closes - ABC	57°30'	72°
Exhaust Valve		
Opens - BBC	54°30'	76°
Closes - ATC	15°30'	31°
Ramp		
Inlet		
Opening	.0047, 10°	.0067, 18°
Closing	.0067, 15°	
Exhaust		
Opening	.0047, 10°	.0107, 29°
Closing	.0067, 15°	
Tappet Lift		
Inlet	.26581	.2625
Exhaust		.2665

INLET MANIFOLD

Material	Cast alloy iron	Cast aluminum

* - Steel backed aluminum alloy matrix with a thin lead alloy overplate

LUBRICATION SYSTEM

ENGINE - 283 cu. in. V-8	Turbo-Fire	Super Turbo-Fire	Ramjet Fuel Injection	Ramjet Fuel Injection Special

METHOD OF LUBRICATION

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
Timing Gears	Nozzle sprayed

OIL PUMP

Type	Gear
Normal Oil Pressure	35 psi @ 2000 RPM
Intake Type	Fixed
Capacity (GPM @ RPM, hot)	4.0-4.2 @ 1170-1200

CRANKCASE CAPACITY (quarts)

Dry	4.5
Refill	4.0

OIL PRESSURE SENDING UNIT

Type	Electrical

OIL FILTER

Availability	RPO 237	Production
Type	Full flow, spring loaded disc by-pass	
Capacity (dry)	1.0 qt.	
Replacement Type	Element	

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

CRANKCASE VENTILATION

Type	Road draft

FUEL AND EXHAUST SYSTEM

FUEL PUMP

Make	AC
Type	Mechanical
Pressure Range	5.25-6.50 psi

MANIFOLD HEAT CONTROL

Type	Automatic

AIR CLEANER

Make	AC	
Type	Dry	
Element	Paper	
Location	On carburetor air horn	On radiator bulkhead
Air Intake Duct		Channel air from air cleaner to air meter adapter

FUEL TANK

Capacity (gallons)	
Station Wagons and Sedan Delivery	17*
Others	20

*- 9-pass. Station Wagon has 18 gal. capacity.

ENGINE-283 cu. in. V8	Turbo-Fire	Super Turbo-Fire	Ramjet Fuel Injection	Ramjet Fuel Injection Special

FUEL TANK-Continued

Filler Location	
Station Wagon and Sedan Delivery	In left rear quarter panel
Others	Center of body back lower panel at rear of hinged license plate

CARBURETORS

Conventional Transmission					
Make	Rochester	Carter			
Model	7013007	3756676			
Automatic Transmission					
Make	Rochester				
Model	7013008	7013004			
Type	2 bbl., downdraft	4 bbl., downdraft			
SAE Flange Size	1.25				
Venturi ID by Make*	Rochester		Carter		
Primary	1.09	1.00	1.00		
Secondary		1.06	1.13		
Throttle Bore	1.4375	1.3125			
Choke	Automatic				

FUEL INJECTION SYSTEM

Make	Rochester Products	
Type	Constant flow	
Model	7017200	7017250

AIR INDUCTION

Air Meter	
Location	Left side of engine
Plenum Chamber	
Location	Integral with inlet manifold
Ram Pipes	
Number	Eight
Location	Integral with inlet manifold
Length	12"

AIR/FUEL RATIO CONTROL

Type	Vacuum sensitive diaphragm
Location	On fuel meter assembly

FUEL METER PUMP

Type	Gear
Drive	Gear driven by flexible shaft from distributor
Pressure (maximum)	300 psi

INJECTION NOZZLES

Number	Eight
Material	Brass
Location	On inlet manifold above intake ports
Fuel Orifice Size	0118
Insulation	Bakelite block

AUTOMATIC ENRICHMENT

Type	Electric, time-temperature
Location	On air meter assembly
Current Draw	1 amp. @ 70°F

INLET MANIFOLD ADAPTER

Material	Cast aluminum

* - Primary and Secondary applies to 4-bbl carburetors only

• Revised 3-23-59 10-15-58

ENGINE - 283 cu. in. V-8	Turbo-Fire	Super Turbo-Fire	Ramjet Fuel Injection	Ramjet Fuel Injection Special

FUEL FILTER

In Fuel Tank	Screen	
In Carburetor Inlet	Sintered bronze filter	
Make		AC
Model		GF43
Element		Paper
Location		On engine top cover

FUEL GAUGE

Make	AC
Type	Electric

EXHAUST SYSTEM

Type		
Production	Single	Dual with resonators
RPO 220	Dual with resonators	
Flow	Reverse	
Exhaust Pipe		
Outer diameter	2.00	
Wall thickness	.0625	
Tail Pipe		
Inner diameter	1.81	
Wall thickness	.0598	

COOLING SYSTEM

GENERAL

Type	Pressure, full length water jacket around each cylinder
Shroud	Regular production

THERMOSTAT

Make	Harrison
Type	Pellet
Begins to Open @	167-172°F
Fully Open @	192°F

RADIATOR

Make	Harrison	
Type	Tube on center	
Core Constant and Thickness		
Regular	.30 x .55 x 1.75	
Powerglide	.25 x .55 x 1.75	
Turboglide	.22 x .55 x 1.75	
Frontal Area	390 sq. in.	
Capacity (quarts)		
Regular transmission		
Less heater	17.5	
With heater	18.5	
Automatic transmission		
Less heater	17.25	
With heater	18.25	

RADIATOR HOSE

Location		
Inlet	Thermostat housing to radiator	
Outlet	Water pump to radiator	
Type		
Inlet	Molded elbow	Compound curve
Outlet	Molded elbow	
Inside Diameter		
Inlet	1.50	
Outlet	1.75	

ENGINE - 283 cu. in. V-8	Turbo-Fire	Super Turbo-Fire	Ramjet Fuel Injection	Ramjet Fuel Injection Special

RADIATOR CAP

Type	Pressure
Valve Opens @	13 psi

FAN

Number of Blades	4 staggered
Diameter	17.62
Ratio (fan to engine RPM)	.949:1

FAN AND GENERATOR BELT

Number Used	One
Angle of "V"	37-44°
Pitch Line Length	54.12
Width	.380±.005
Fan Pulley Size	7.00 P. D., 36° V

WATER PUMP

Type	Centrifugal
Capacity (GPM @ RPM)	44.5 @ 4000
Drive	Fan belt
Bearing	Permanently lubricated double row ball

ELECTRICAL SYSTEM

GENERATOR

Make	Delco-Remy
Model	1102097
Type	Two brush, shunt wound
Drive	By fan belt
Pulley Size	2.88 P. D.
Generator RPM/MPH	Approx. 107
Maximum Output (hot)	
@ Generator RPM	2450
@ Engine RPM	1065
Ratio (gen. to engine RPM)	2.3:1
Rating	
Amperes	30
Volts	12-15

OPTIONAL GENERATOR EQUIPMENT

Model	
35 amp (RPO 338)	1102114
40 amp (RPO 326)	1105123 (Medium duty)
50 amp (RPO 378)	1106985 (Low cut-in)

BATTERY

Make	Delco-Remy
Model	1980458
Voltage Rating	12
Number of Cells	6
Plates per Cell	9
Terminal Grounded	Negative
Location	Right front of engine compartment on radiator baffle
Capacity	53 amp. hr. @ 20 hr. rate

OPTIONAL BATTERY EQUIPMENT (RPO 345)

Model	1980668
Number of Cells	6
Plates per Cell	11
Capacity	70 amp. hr. @ 20 hr. rate

ENGINE - 283 cu. in. V8	Turbo-Fire	Super Turbo-Fire	Ramjet Fuel Injection	Ramjet Fuel Injection Special

VOLTAGE AND CURRENT REGULATOR

Make	Delco-Remy
Model	1119001
Type	Vibrator
Cut-Out Relay	
Closing voltage @ generator RPM	11.8-13.5 @ 1300
Voltage Regulator	
Voltage	13.8-14.8
Current Regulator	
Amperes	27-33

STARTING MOTOR

Make	Delco-Remy
Model	
Conventional & Powerglide	1107664
Turboglide	1107694
Rotation (drive end view)	Clockwise
Test Conditions	Engine @ operating temperature
No Load Test	
Amps	49-76
Volts	10.6
RPM	6200-9400
Drive	
Engagement type	Positive shift solenoid
Number of teeth	9
Gear ratio	
Flywheel to starter	18.6:1
Flywheel face tooth width	
Turboglide	.3435
Regular & Powerglide	.4135

STARTING

Ignition Switch	
Positions	Locked Off, Unlocked Off, On, Start
Starting Procedure	
Regular transmission	Turn ignition key to extreme right after placing shift lever in neutral and depressing clutch
Automatic transmission	Turn key to extreme right, selector in Park or Neutral

COIL

Make	Delco-Remy	
Model	1115115	1115083
Amperes		
Engine stopped	4.0	
Engine idling	1.8	

IGNITION TIMING

Crankshaft Degrees		
Initial setting	4° BTC	18° BTC
Mark Location	Vibration damper	
Firing Order	1-8-4-3-6-5-7-2	

SPARK PLUG

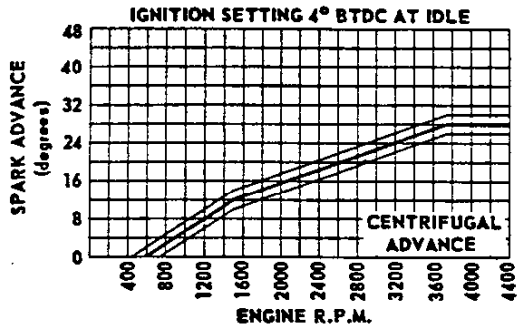
Make	AC
Model	44
Thread Size	14 mm
Gap	.033-.038
Torque (lb. ft.)	25

ENGINE - 283 cu. in. V8	Turbo-Fire	Super Turbo-Fire	Ramjet Fuel Injection	Ramjet Fuel Injection Special

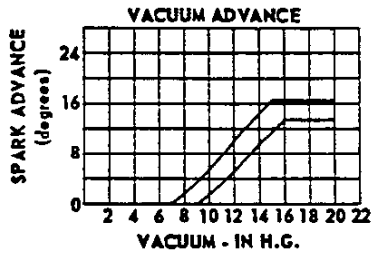
DISTRIBUTOR

Make	Delco-Remy			
Model	1110947	1110946	1110915	1110914*
Breaker Gap	.016-.021			
Cam Angle	26°-33°			
Breaker Arm Tension	19-23 oz.			
Spark Advance Data				
Centrifugal advance				
Begins (RPM)	600			1000
Maximum degrees @ RPM	28 @ 3750	28 @ 3700		22 @ 6000
Vacuum advance				
Maximum degrees @ "Hg	15 @ 15.5		24 @ 13.5	

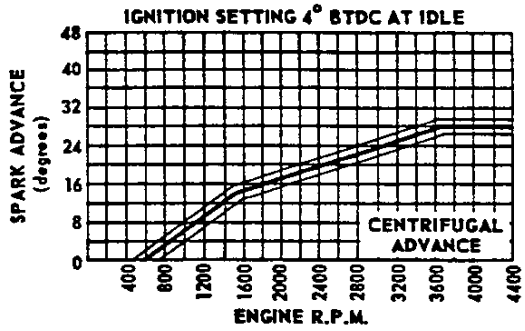
Turbo-Fire



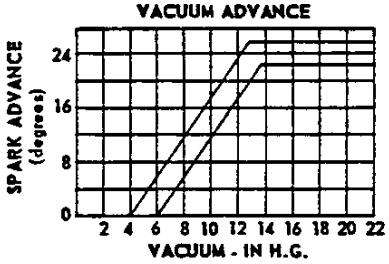
Turbo-Fire & Super Turbo-Fire



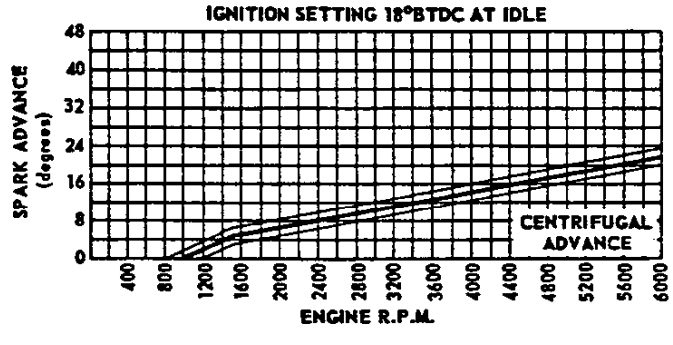
Super Turbo-Fire & Ramjet Fuel Injection



Ramjet Fuel Injection



Ramjet Fuel Injection Special



* - Dual breaker points

348 CUBIC INCH V-8 ENGINE

GENERAL DATA

Engine		Conventional	Powerglide	Turboglide
Piston displacement (cu. in.)		348		
Type		Valve-in-head		
Number of cylinders		8		
Bore and stroke (nominal)		4.125 x 3.25		
Compression ratio		9.5:1**		
Taxable (SAE) horsepower		54.5		
Idling speed (RPM)		475 in neutral	450 in drive	
Compression press. (PSI) @ cranking speed, engine hot		150		
Dry weight (pounds)	Engine and clutch	715	650	640
	With transmission	775	875	790
Lubrication		Full pressure		
Power plant mounting		Three point mounting, two front and one rear combination compression and shear type		
Measurements (inches)	Fan to rear of flywheel housing	38.23	33.82	
	Front cylinder block to rear of flywheel housing	29.92	25.51	
	Length of cylinder block	23.63		
	Exhaust manifold to ℄ generator (width)	25.57		
	Top air cleaner to bottom oil pan	28.90		

ADVERTISED MAXIMUM ENGINE PERFORMANCE

Engine		Turbo-Thrust	Turbo-Thrust Special		Super Turbo-Thrust	Super Turbo-Thrust Special
Carburetor		(RPO 576)		(RPO 577)	(RPO 573)	(RPO 574)
		4-barrel			3x2-barrel	
Camshaft		Standard	Special		Standard	Special
Brake Horsepower	Gross	250@4400 rpm	305@5600 rpm +	320@5600 rpm	280@4800 rpm	335@5800 rpm
	Net	210@4400 rpm	NA	NA	235@4800 rpm	NA
Torque (lb.-ft)	Gross	355@2800 rpm	350@3600 rpm +	358@3600 rpm	355@3200 rpm	362@3600 rpm
	Net	320@2600 rpm	NA	NA	320@2800 rpm	NA

ENGINE SPEED AND PISTON TRAVEL

Transmission		3-Speed (Production)		4-Speed (RPO 685)	Powerglide (RPO 313)*		Turboglide (RPO 302)*
Rear axle ratio		3.36:1	3.55:1				3.08:1
Tire size		7.50 x 14-4$					
Crankshaft rpm		2651.0	2801.0				2430.1
Crankshaft rpm @ 1 mph	Low	109.2	115.3	102.7	85.0+	73.7	
	Reverse	123.8	130.8	105.5			
	Second	67.6	71.5	77.5			
	Third			61.2			
	Direct¢	44.2	46.7				40.5
Piston travel (ft/mile)		1434.2	1515.3				1314.7

* - Data computed assuming zero slippage in torque converter.
\+ - Heavy Duty Powerglide
**- 11.0:1 with 4-barrel carburetor, special camshaft, and HD Powerglide; 11.25:1 with special camshaft and synchromesh transmissions.
$ - 8.00 x 14-4 tires standard equipment on 1867, station wagon, Sedan Delivery and Sedan Pick-up.
¢ - Also known as N/V factor.

10-15-58 • Revised 3-23-59

ADVERTISED CAR PERFORMANCE

3 Speed Transmission	ENGINE			
	Turbo-Thrust	Turbo-Thrust Special	Super Turbo-Thrust	Super Turbo-Thrust Special
Model	1619			
Performance weight (pounds) +	4520	4525	4530	4535
Pounds per gross horsepower	18.08	14.14	16.18	13.54
Pounds, per cu. in. displacement	12.99	13.00	13.02	13.03
Gross horsepower per cu. in. displacement	.718	.920	.805	.963
Power displacement (cu. ft./mile) @	265.2	280.2	265.2	280.2
Displacement factor (cu. ft./ton mile) #	117.3	123.9	117.1	123.6
4-Speed Transmission				
Performance weight (pounds) +	4535	4545	4545	4550
Pounds per gross horsepower	18.14	14.20	16.23	13.58
Pounds per cu. in. displacement	13.03	13.06	13.06	13.07
Gross horsepower per cu. in. displacement	.718	.920	.805	.963
Power displacement (cu. ft./mile) @	265.2	280.2	265.2	280.2
Displacement factor (cu. ft./ton mile) #	117.0	123.3	116.7	123.2
Powerglide Transmission *				
Performance weight (pounds) +	4620	4630	4635	
Pounds per gross horsepower	18.48	15.18	16.55	
Pounds per cu. in. displacement	13.28	13.30	13.32	
Gross horsepower per cu. in. displacement	.718	.876	.805	
Power displacement (cu. ft./mile) @	243.2	280.2	243.2	
Displacement factor (cu. ft./ton mile) #	105.3	121.1	104.9	
Turboglide Transmission *				
Performance weight (pounds) +	4545		4555	
Pounds per gross horsepower	18.18		16.27	
Pounds per cu. in. displacement	13.06		13.09	
Gross horsepower per cu. in. displacement	.718		.805	
Power displacement (cu. ft./mile) @	243.2		243.2	
Displacement factor (cu. ft./ton mile) #	107.0		106.8	

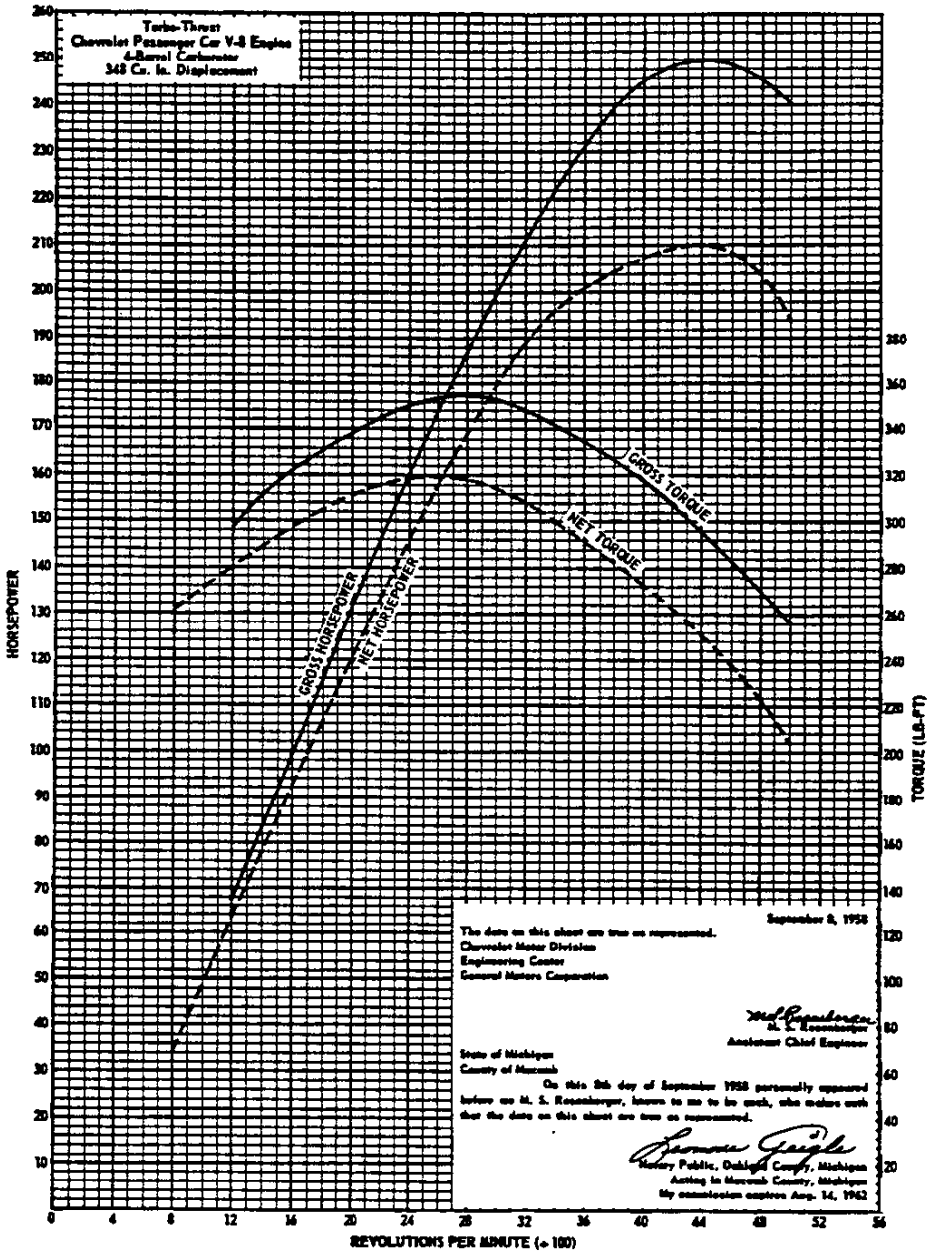
+ - Curb weight plus 600 lb. (weight of 4 150# passengers).

* - Data computed assuming zero slippage in torque converter.

@ - $\frac{\text{Crankshaft revolutions per mile x piston displacement} \div 2}{1728}$

- Power displacement divided by performance weight in tons.

TURBO-THRUST 348 CUBIC INCH V-8 ENGINE

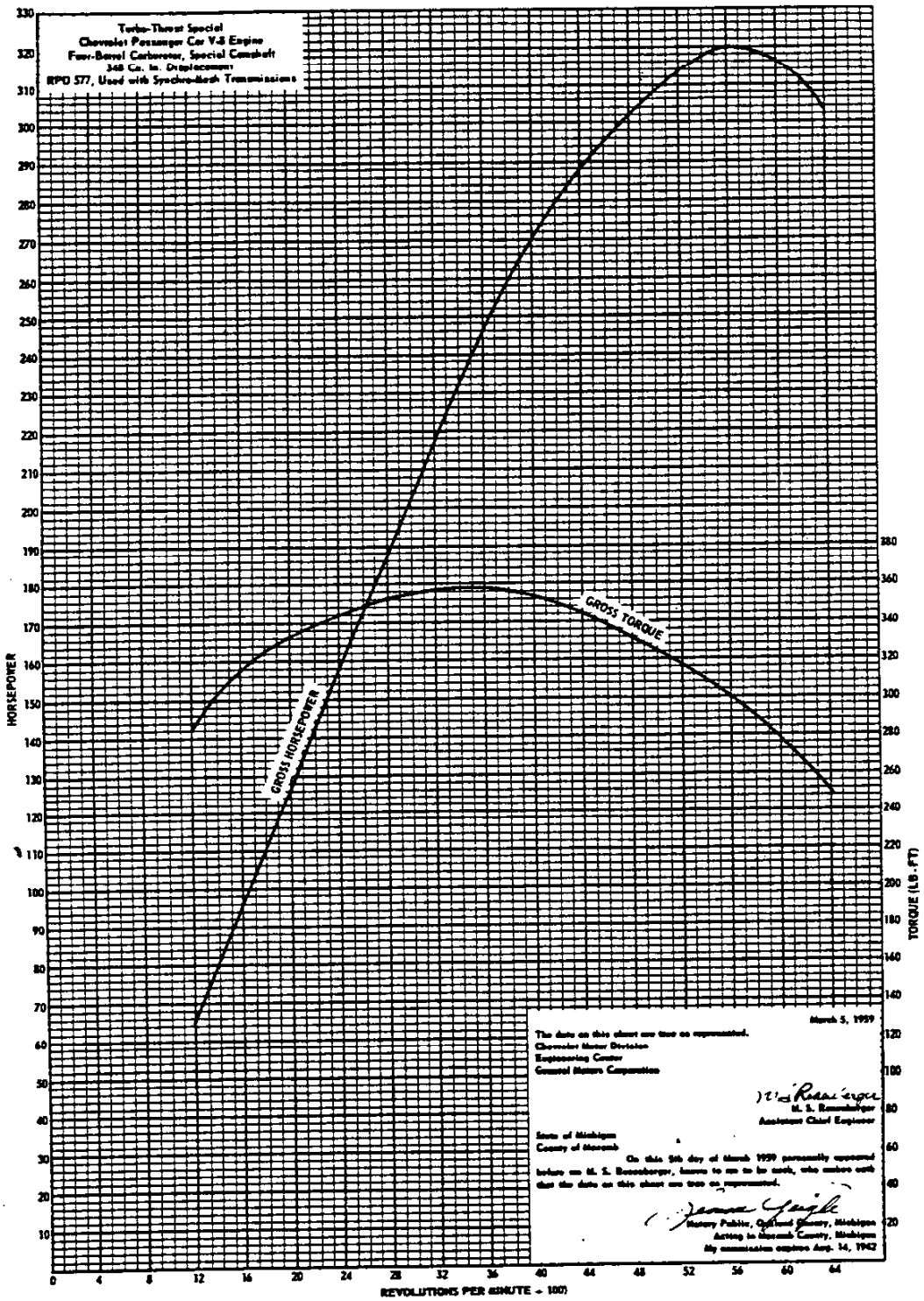


The engine performance curves shown on this sheet are taken from Chevrolet engine test report 17688-144. They represent the full throttle performance of a Turbo-Thrust 348 Chevrolet passenger car engine with 348 cubic inch displacement, as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and the 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, and optimum spark advance.

NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle. It includes the use of the regular mufflers and pipes, the fan in operation and automatic spark advance. The generator is not charging.

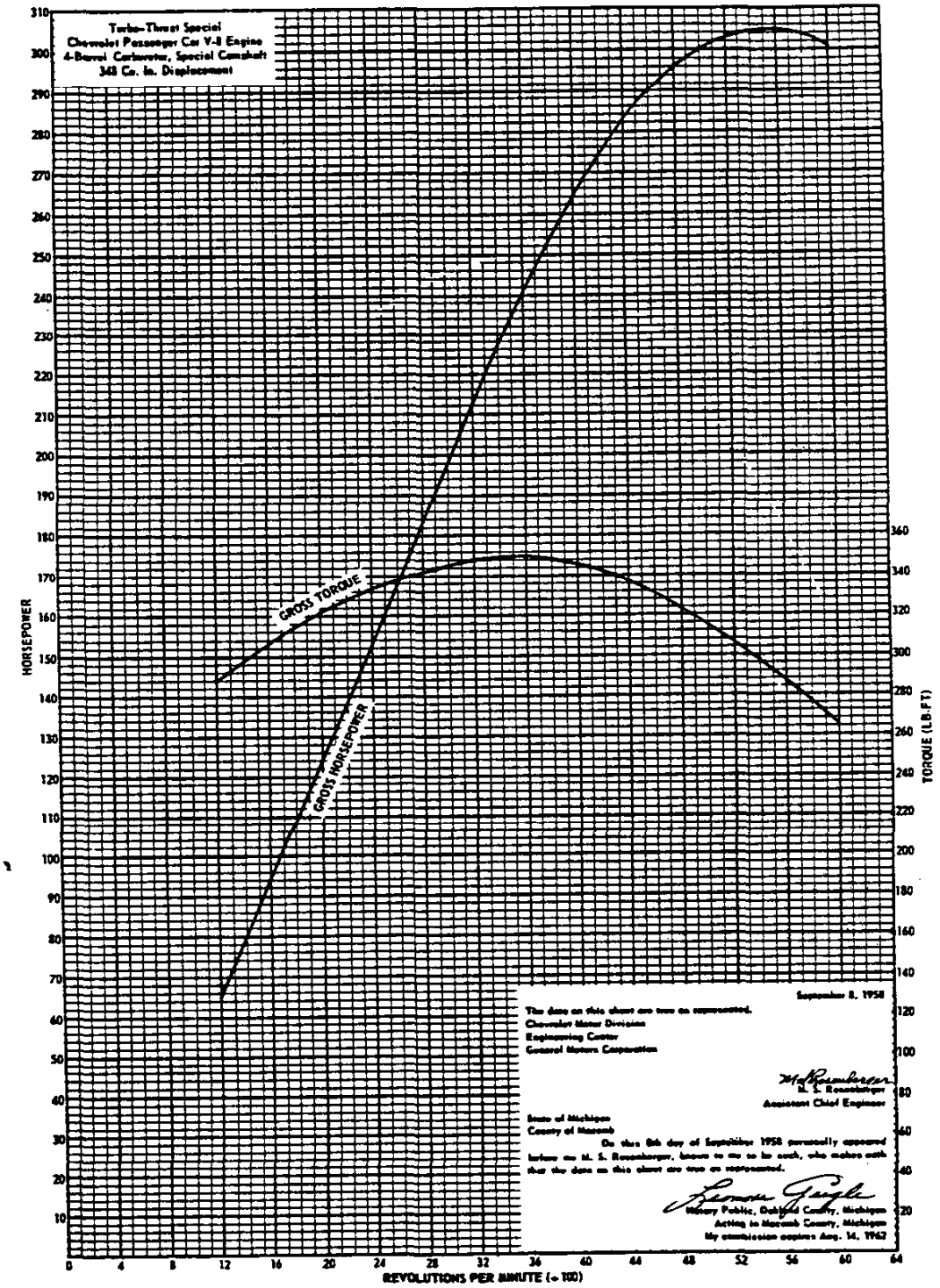
TURBO-THRUST SPECIAL 348 CUBIC INCH V-8 ENGINE
(With Special Camshaft and Synchromesh Transmission)



The engine performance curves shown on this sheet are taken from Chevrolet engine test report 18005-41. They represent the full throttle performance of a Turbo-Thrust Special Chevrolet passenger car engine with 348 cubic inch displacement, as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and the 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, and optimum spark advance.

TURBO-THRUST SPECIAL 348 CUBIC INCH V-8 ENGINE
(With Special Camshaft and Heavy Duty Powerglide Transmission)



The engine performance curves shown on this sheet are taken from Chevrolet engine test report 18005-8. They represent the full throttle performance of a Turbo-Thrust Special Chevrolet passenger car engine with 348 cubic inch displacement, as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and the 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, and optimum spark advance.

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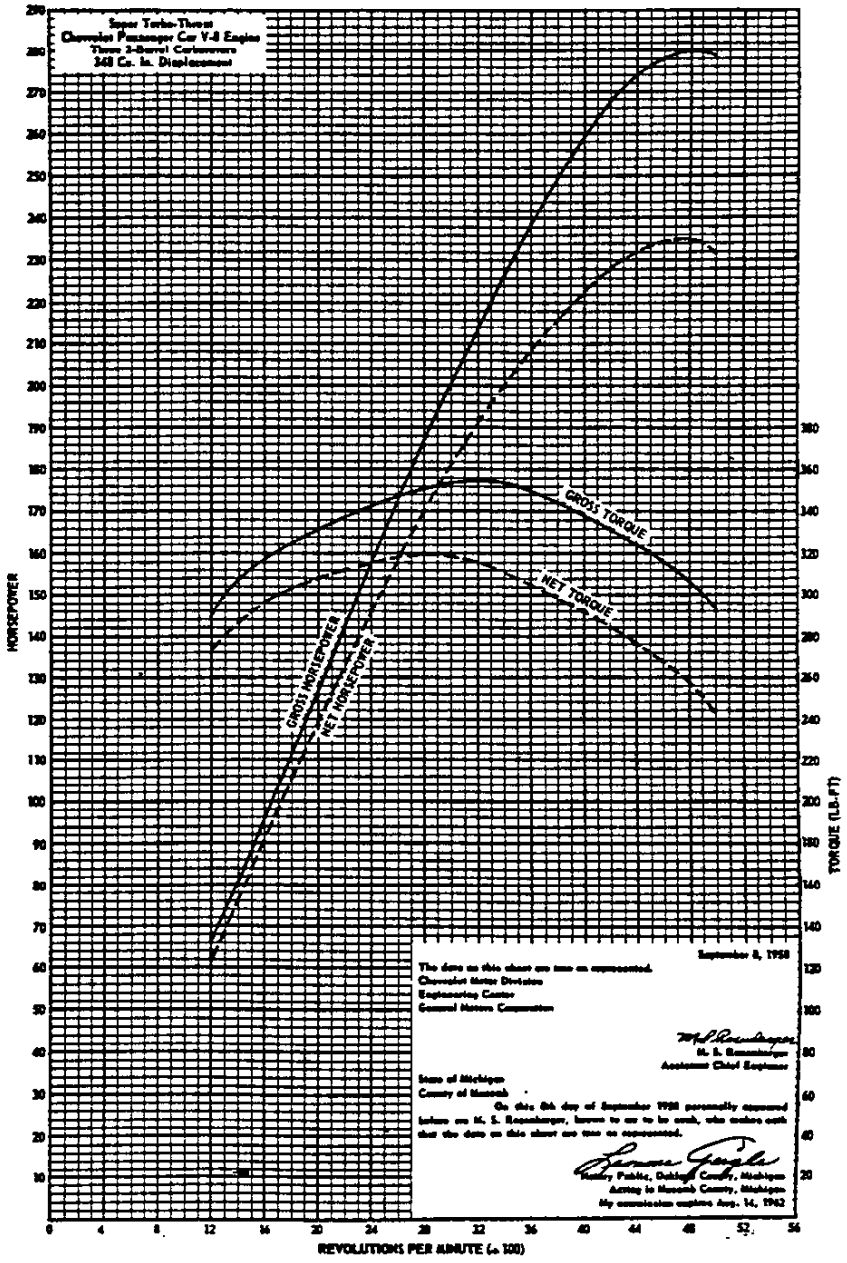
SUPER TURBO-THRUST
348 CUBIC INCH V-8 ENGINE

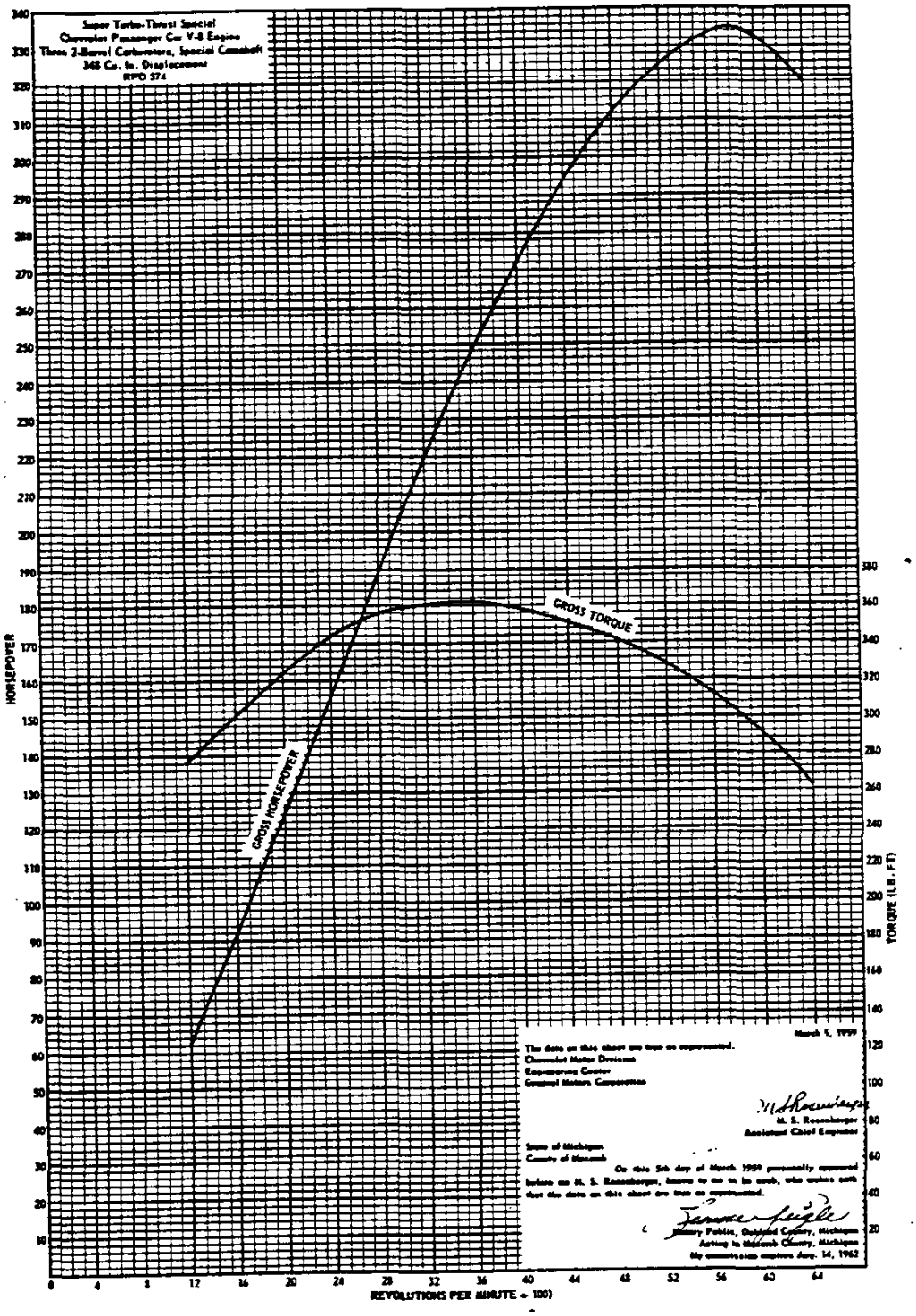


The engine performance curves shown on this sheet are taken from Chevrolet engine test report 17688-144. They represent the full throttle performance of a Super Turbo-Thrust Chevrolet passenger car engine with 348 cubic inch displacement, as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and the 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, and optimum spark advance.

NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle. It includes the use of the regular mufflers and pipes, the fan in operation and automatic spark advance. The generator is not charging.

SUPER TURBO-THRUST SPECIAL 348 CUBIC INCH V-8 ENGINE
(With Special Camshaft and Synchromesh Transmission)



The engine performance curves shown on this sheet are taken from Chevrolet engine test report 18005-41. They represent the full throttle performance of a Super Turbo-Thrust Special Chevrolet passenger car engine with 348 cubic inch displacement, as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and the 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, and optimum spark advance.

• *Revised 3-23-59 10-15-58*

ENGINE - 348 cu in V-8	Turbo-Thrust	Super Turbo-Thrust	Turbo-Thrust Special	Super Turbo-Thrust Special
			HD PG	Synchromesh

CYLINDER CASE AND HEADS

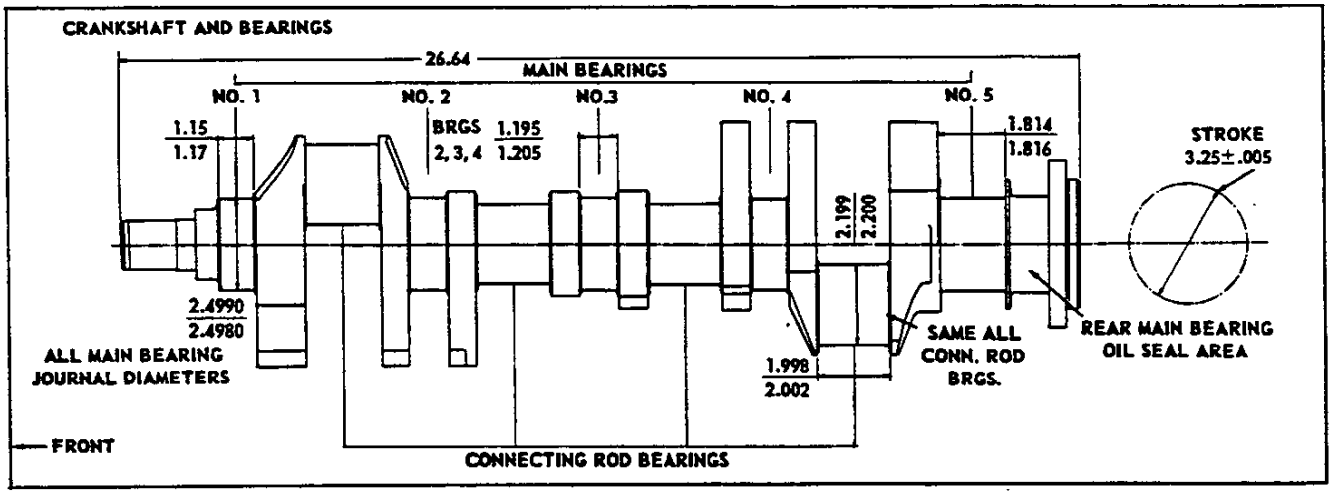
Material	Cast alloy iron
Bore Diameter	4.124-4.127
Head Bolt Torque	60-70 lb. ft.
No. Cylinder Head Bolts	36

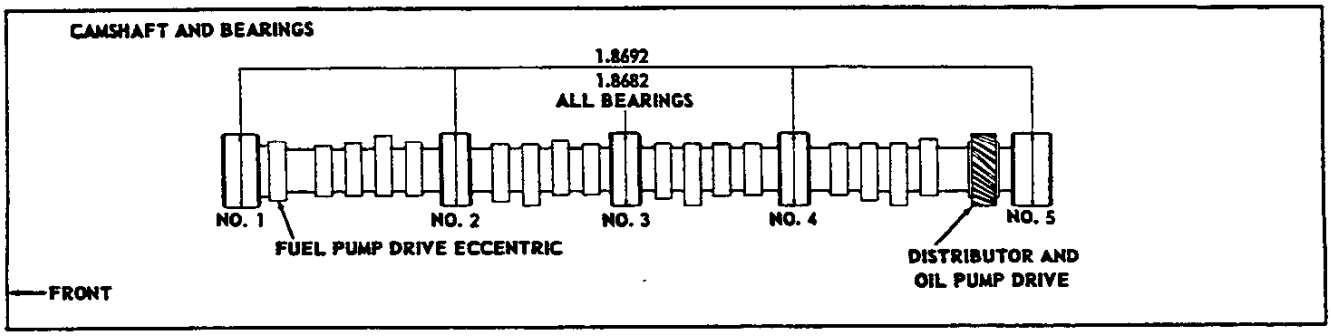
CRANKSHAFT

Material	Forged steel
End Play	.003-.007
Vibration Damper	Oscillating (rubber mounted)
Weight	58.75 lb.
Counterweights	6
Crankshaft Pulley Diameter	6.64 P. D.

MAIN BEARINGS

Material	Steel backed babbitt	Premium*
Type	Precision, removable	
End Thrust Against Bearing	#5	
Dimensions		
Bearing #1 thru 4		
Theoretical I. D.	2.5006	
Effective length	1.002	
Projected area	2.5056 sq. in.	
Bearing #5		
Theoretical I. D.	2.5006	
Effective length	1.262	
Projected area	3.1558 sq. in.	





* - Steel backed aluminum alloy matrix with a thin lead alloy overplate except rear.

ENGINE - 348 cu in V-8	Turbo-Thrust	Super Turbo-Thrust	Turbo-Thrust Special	Super Turbo-Thrust Special
			HD PG	Synchromesh

CAMSHAFT

Make	Own
Material	Cast alloy iron

CAMSHAFT BEARINGS

Material	Steel backed babbitt
Dimensions	
Bearing #1 thru 4	
Theoretical I. D.	1.8712
Effective length	.860
Projected area	1.609 sq. in.
Bearing #5	
Theoretical I. D.	1.8712
Effective length	.940
Projected area	1.759 sq. in.

CAMSHAFT DRIVE

Type	Chain and sprocket
Sprocket Material	
Crankshaft (drive)	Steel
Camshaft (driven)	Cast alloy iron
Timing Chain	
Make	Link Belt
No. of Links	48
Width	.88
Pitch	.500

VALVE MECHANISM

Type	Rocker arm, push rod actuated	
Lifters	Hydraulic	Mechanical
Body material		
Foot	Cast alloy iron	
Sleeve	Steel	
Plunger	Steel	
Push rod	Steel	
Rocker Arm Ratio	1.75:1	
Valve Lash		
Inlet	Zero	.012
Exhaust	Zero	.018

VALVES

Inlet			
Material	High alloy steel (8645) *		
Stem to guide clearance	.0010-.0027		
Lift	.4005	.4076	.4058
Exhaust			
Material	High alloy steel (21-4N)*		
Stem to guide clearance	.0025-.0042		
Lift	.4119	.4139	.4120

VALVE SPRINGS			
Compressed Length			
Valves closed	Inner	1.626@78-86 lb	1.488@20-24 lb
	Outer		1.696@69-79 lb
Valves opened	Inner	1.230@184-196 lb	1.06 @ 55-61 lb
	Outer		1.306@159-169 lb
Free Length	Inner	Approx 2.0	1.84
	Outer		2.08

* - Valve faces aluminized with special cam and synchromesh transmission
Inner and outer valve springs apply only to special cam and synchromesh transmission

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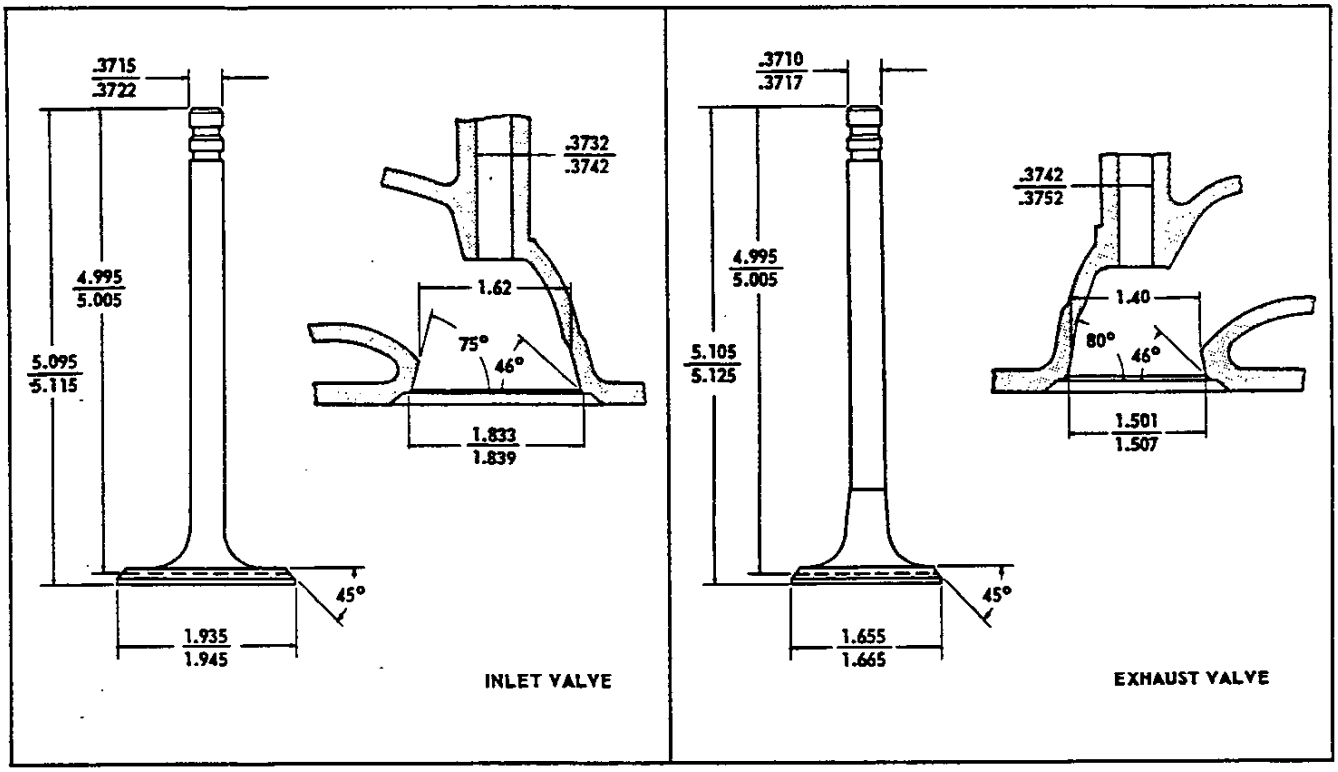

ENGINE - 348 cu in V-8	Turbo-Thrust	Super Turbo-Thrust	Turbo-Thrust Special	Super Turbo-Thrust Special
			HD PG	Synchromesh

VALVE SPRING DAMPERS

No. of Coils	3.56	
Free Length	1.765	

PISTONS

Material	Cast aluminum alloy	
Type		
Head	Peak roof	Half flat; half slanted downward 16°, notched
Skirt	Slipper, autothermic	
Weight (Oz.)	28.08	29.20
Top Land Clearance	.0325-.0367	
Skirt Clearance	.0006-.0010	
Groove Depth		
Compression ring	.2283-.2334	
Oil control ring	.2183-.2234	

PISTON PINS

Material	Alloy steel
Type	Rod shrunk fit to piston
Length	3.250-3.270
Diameter	.9895-.9898
Clearance in Piston	.00015-.00025
Direction of Offset	Major thrust side

COMPRESSION RINGS

No. per Piston	Two
Type	
Upper and lower	Thick wall, inside bevel or counterbore

ENGINE - 348 cu in V-8	Turbo-Thrust	Super Turbo-Thrust	Turbo-Thrust Special	Super Turbo-Thrust Special
			HD PG	Synchromesh

COMPRESSION RINGS - Continued

Material	Cast alloy iron	
Coating		
Upper ring	Flash chrome plate	.004-.007 chrome plating
Lower ring	Wear resistant	
Width	.0770-.0780	
Gap	.015-.025	
Wall Thickness	.196-.206	

OIL RINGS

Type	Multi-piece (2 chrome rails and one spacer)	
No. per Piston	One	
Material		
Rails	Steel	Cast alloy iron
Spacers	Stainless steel	Cast alloy iron (expanders)
Coating		
Upper and lower rails	Chrome plated OD	
Width	.224-.232	.1855-.1865
Gap	.015-.055	.013-.025
Wall Thickness	.165-.171	.156-.162

CONNECTING RODS

Material	Forged steel	
Length	6.134-6.136	
Bearings		
Material	Steel backed babbitt	Premium*
Type	Precision, removable	
Effective length	.867	
Clearance	.0007-.0027	
End play	.008-.014	
Theoretical I. D.	2.2012	
Projected area	1.908 sq. in.	

TIMING DIAGRAM DATA

Valve Timing			
Inlet			
Opens - BTC	18°30'	33°	35°
Closes - ABC	67°30'	74°	72°
Exhaust			
Opens - BBC	68°30'	88°	76°
Closes - ATC	25°30'	19°	31°
Ramp			
Inlet			
Opening	.0034, 10°	.0066, 20°	.0059, 18°
Closing	.0044, 13°		
Exhaust			
Opening	.0034, 10°	.0102, 31°	.0059, 18°
Closing	.0044, 13°		
Tappet Lift			
Inlet	.2288	.2329	.2319
Exhaust	.2354	.2365	.2354

LUBRICATION SYSTEM

METHOD OF LUBRICATION

Type	Controlled full pressure
Main Bearings	Pressure
Connecting Rods	Pressure
Piston Pins	Splash

* - Steel backed aluminum alloy matrix with a thin lead alloy overplate

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ENGINE - 348 cu in V-8	Turbo-Thrust	Super Turbo-Thrust	Turbo-Thrust Special	Super Turbo-Thrust Special
			HD PG	Synchromesh

METHOD OF LUBRICATION - Continued

Cylinder Walls	Pressure, jet cross spray
Camshaft Bearings	Pressure
Lifters	Pressure
Timing Gear	Nozzle sprayed

OIL PUMP

Type	Gear
Normal Oil Pressure	35 psi @ 2000 RPM
Intake Type	Fixed
Capacity (GPM, hot)	4.0-4.2 @ 1170-1200 RPM

OIL PRESSURE SENDING UNIT

Type	Electric

CRANKCASE CAPACITY (quarts)

Dry	4.5
Refill	4.0

OIL FILTER

Availability	RPO 237	Production
Type	Full flow, spring loaded disc by-pass	
Capacity (dry)	1.0 quart	
Replacement Type	Element	

LUBRICANT GRADES AND TEMPERATURES

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

CRANKCASE VENTILATION

Type	Road draft

FUEL AND EXHAUST SYSTEM

FUEL PUMP

Make	AC
Type	Mechanical
Pressure Range	5.25-6.50 psi

MANIFOLD HEAT CONTROL

Type	Automatic

AIR CLEANER

Make	AC
Element	Paper

FUEL TANK

Capacity (gallons)	
Station Wagons and Sedan Delivery	17*
All others	20
Filler location	
Station Wagons and Sedan Delivery	In left rear quarter panel
All others	Center of body back lower panel at rear of hinged license plate

FUEL FILTER

Fuel Tank	Screen
Carburetor Inlet	Sintered bronze filter

*- 9-pass. Station Wagon has 18 gal. capacity.

ENGINE - 348 cu in V-8	Turbo-Thrust	Super Turbo-Thrust	Turbo-Thrust Special	Super Turbo-Thrust Special
			HD PG	Synchromesh

FUEL GAUGE

Make	AC
Type	Electric

EXHAUST SYSTEM

Type	Dual with resonators	
Exhaust Pipe		
O. D.	2.00	2.50
Wall thickness	.0625	
Tail Pipe		
I. D.	1.81	2.0
Wall thickness	.0598	

CARBURETORS

Regular Transmission						
Make	Carter		Rochester	Carter		Rochester
Model	3756677			3764593		
Front			7013015			7013973
Center			7013020			7013974
Rear			7013017			7013975
Automatic Transmission						
Make	Carter, Rochester		Rochester	Carter**		
Model	3756678, 7013006			3764593		
Front			7013015			
Center			7013016			
Rear			7013017			
Type	4 bbl., downdraft		2 bbl., downdraft	4 bbl., downdraft		2 bbl., downdraft
SAE Flange Size	1.25			1.50		1.25
Venturi ID by Make*	Carter	Rochester		Carter		Rochester
Primary	1.06	1.13	Fr & Rr 1.19	1.25		Fr & Rr 1.19
Secondary	1.25	1.25	Center 1.25	1.56		Center 1.25
Throttle Bore	1.4375			1.56 Pr, 1.68 Sec		1.4375
Choke	Automatic					

COOLING SYSTEM

GENERAL

Type	Pressure with full length water jacket around each cylinder
Shroud	Production

THERMOSTAT

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

RADIATOR

Make	Harrison
Type	Tube on center
Core Constant and Thickness	
Regular transmission	.25 x .55 x 1.75
Automatic transmission	PG-.22 x .55 x 1.75; TG-.20 x .55 x 1.75
Frontal Area	428 sq. in
Capacity (quarts)	
Less heater	21
With heater	22

RADIATOR CAP

Type	Pressure
Valve Opens @	Approx. 13 psi

* - Primary and Secondary data applies to 4-bbl carburetors only

** - Aluminum intake manifold on engines with synchromesh transmissions

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ENGINE - 348 cu in V-8	Turbo-Thrust	Super Turbo-Thrust	Turbo-Thrust Special	Super Turbo-Thrust Special
			HD PG	Synchromesh

RADIATOR HOSE

Location	
Inlet	Thermostat housing to radiator
Outlet	Water pump to radiator
Type	Molded elbow
Inner Diameter	
Inlet	1.50
Outlet	1.75

FAN AND GENERATOR BELT

Number Used	One
Angle of "V"	37-44°
Pitch Line Length	57"
Width	.375-.385
Fan Pulley Size	7.00 P.D., 36° "V"

FAN

Number of Blades	4, staggered
Diameter	17.62
Ratio (fan to engine RPM)	.949:1

WATER PUMP

Type	Centrifugal
Capacity (GPM @ RPM)	53@ 4000
Drive	Fan belt
Bearing	Permanently lubricated double row ball

ELECTRICAL SYSTEM

GENERATOR

Make	Delco-Remy	
Model	1102097	1102059
Type	Two brush, shunt wound	
Drive	By fan belt	
Pulley Size	2.88 P.D.	4.00 P.D.
Generator RPM/MPH	Approx. 101	Approx. 73
Maximum Output		
Generator RPM (hot)	2450	2580
Engine RPM (hot)	1065	1554
Ratio (gen. to engine RPM)	2.3:1	1.66:1
Rating		
Amps	30	
Volts	12-15	

OPTIONAL GENERATOR EQUIPMENT

Model	
35 Amp (RPO 338)	1102114
40 Amp (RPO 326)	1105123 Medium duty
50 Amp (RPO 378)	1106985 Low cut-in

BATTERY

Make	Delco-Remy
Model	1980558
Voltage Rating	12
Number of Cells	6
Plates per Cell	11
Terminal Grounded	Negative
Location	Right front of engine compartment on radiator baffle
Capacity	61 amp. hr. @ 20 hr. rate

ENGINE - 348 cu in V-8	Turbo-Thrust	Super Turbo-Thrust	Turbo-Thrust Special	Super Turbo-Thrust Special
			HD PG	Synchromesh

OPTIONAL BATTERY EQUIPMENT (RPO 345)

Model	1980668
Capacity	70 amp. hr. @ 20 hr. rate

VOLTAGE AND CURRENT REGULATOR

Make	Delco-Remy
Model	1119234
Type	Vibrator
Cut-out- Relay	
Closing voltage @ generator RPM	11.8-13.5 @ 1300
Voltage Regulator	
Voltage	13.8-14.8
Current Regulator	
Amperes	27-33

STARTING MOTOR

Make	Delco-Remy	
Model		
Conventional	1107688	
Powerglide		
Turboglide	1107687	
Rotation (drive end view)	Clockwise	
-Test Conditions	Engine at operating temperature	
No Load Test		
Amps	65-100	
Volts	10.6	
RPM	3600-5100	
Drive		
Engagement type	Positive shift solenoid	
Number of teeth	9	
Gear ratio		
Flywheel to starter	18.6:1	
Flywheel face tooth width		
Regular and Powerglide	.4135	
Turboglide	.3435	

STARTING

Ignition Switch	
Positions	Locked Off, Unlocked Off, On, and Start
Starting Procedure	
Regular transmission	Turn ignition key to extreme right after placing shift lever in neutral and depressing clutch
Automatic transmission	Turn key to extreme right, selector in Park or Neutral

COIL

Make	Delco-Remy		
Model	1115083	1115111	1115114
Amperes Drawn			
Engine stopped	4.0		
Engine idling	1.8		

IGNITION TIMING

Initial Setting	4° BTC	12°BTC
Mark Location	Vibration damper	
Firing Order	1-8-4-3-6-5-7-2	

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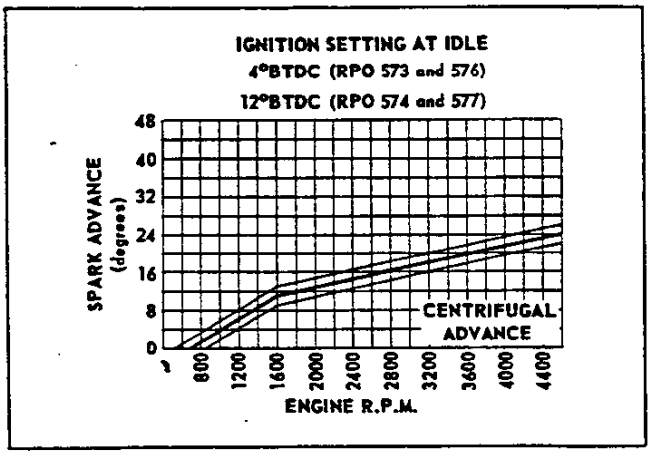
ENGINE - 348 cu in V-8	Turbo-Thrust	Super Turbo-Thrust	Turbo-Thrust Special	Super Turbo-Thrust Special
			HD PG	Synchromesh

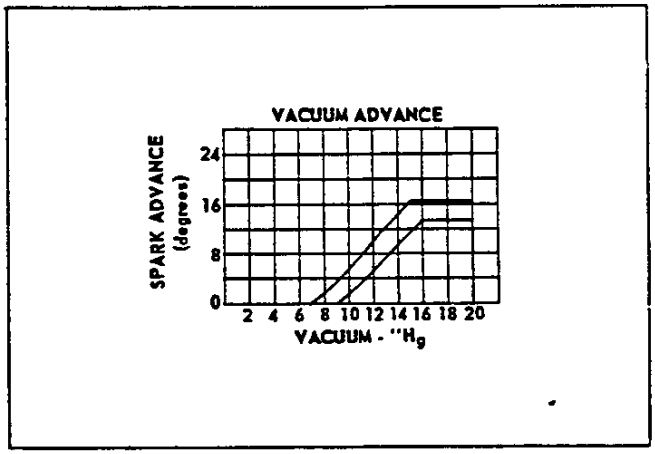
SPARK PLUGS

Make	AC
Model	44N
Thread Size	14 MM
Gap	.033-.038
Torque	25 lb. ft.

DISTRIBUTOR

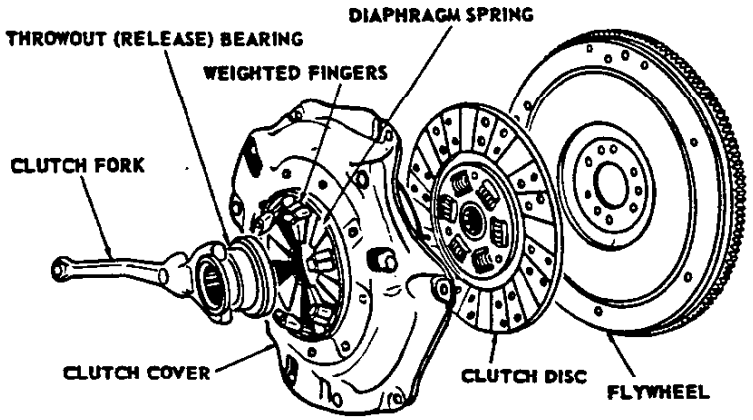
Make	Delco-Remy	
Model	1110948	1110919*
Breaker Gap	.016-.021	
Cam Angle	26-33°	
Breaker Arm Tension	19-23 oz.	
Spark Advance Data		
Centrifugal advance		
Begins (RPM)	700	
Maximum degrees @ RPM	24@4600	
Vacuum advance		
Maximum degrees @ "Hg	15@15.5	





* - Dual Breaker points

DIAPHRAGM SPRING TYPE



CLUTCHES

ITEM			Hi-Thrift 6 Cylinder 3-Speed & O'drive	Hi-Thrift 6 Cylinder Heavy Duty Clutch	Turbo-Fire V8 3-Speed	Turbo Fire & Super Turbo-Fire V8 O'drive	Super Turbo-Fire V8 3-Speed	Ramjet Fuel Injection 3 and 4-Speed	Turbo-Thrust & Super Turbo-Thrust 3-4 Speed
Type			Single plate, dry disc	Semi-centrifugal, single plate, dry disc					
Rated torque cap. (lb. ft.)			245	342	295	323	313	323	370
Drive			Strap						
Clutch Spring	Material		Spring steel, heat treated						
	Spring pressure		Through diaphragm spring						
	Total pressure		1450-1600	1575-1725	1475-1625	1575-1725	1575-1725	1575-1725	1775-1875
	Release		Diaphragm action, spring pivots on pivot ring						
Driven Disc	Type		One spring cushioned plate with two facings						
	Vibration dampers		6 cushion springs			12 springs	6 springs	12 cushion springs	
	Facing (two)	Material	Woven asbestos*					Woven asbestos**	
		O. D.	9.50	11.0	10.0	10.0	10.0	10.0	10.5
		I. D.	6.00	6.5	6.0	6.5	6.0	6.5	6.5
		Area (both facings)	85.22	123.70	100.53	90.72	100.53	90.72	106.81
		Thickness	.135	.133	.135	.135	.135	.135	.133
Bearings	Clutch Release	Type, make	See anti-friction bearing chart						
		Lub.	Packed for life						
	Pilot	Make & no.	Chevrolet-412562						
		Type	Sintered powdered bronze bushing, oil impregnated						
		I. D.	.5915-.5925						
		O. D.	1.0935-1.0945						
		Width	.740-.760						
		Lub.	Self						
Controls	Clutch fork type		Forged pivot mounted on ball						
	Pedal mounting		Pendant from brace on dash						
Flywheel	Material		Cast alloy iron						
	Wt. with ring gear (lb.)		30.90	31.25	28.22	29.35	28.22	28.22	27.50
	Ring Gear	Type	Hot rolled steel, shrunk on flywheel						
		No. teeth	168						
		Width & P. D.	.4110-.4160; 14.00 P. D.						
Clutch attach. to flywheel			6 Bolts						

* - Molded asbestos used optionally in Hi-Thrift 6 cylinder 3-speed & overdrive clutches

** - Premium grade

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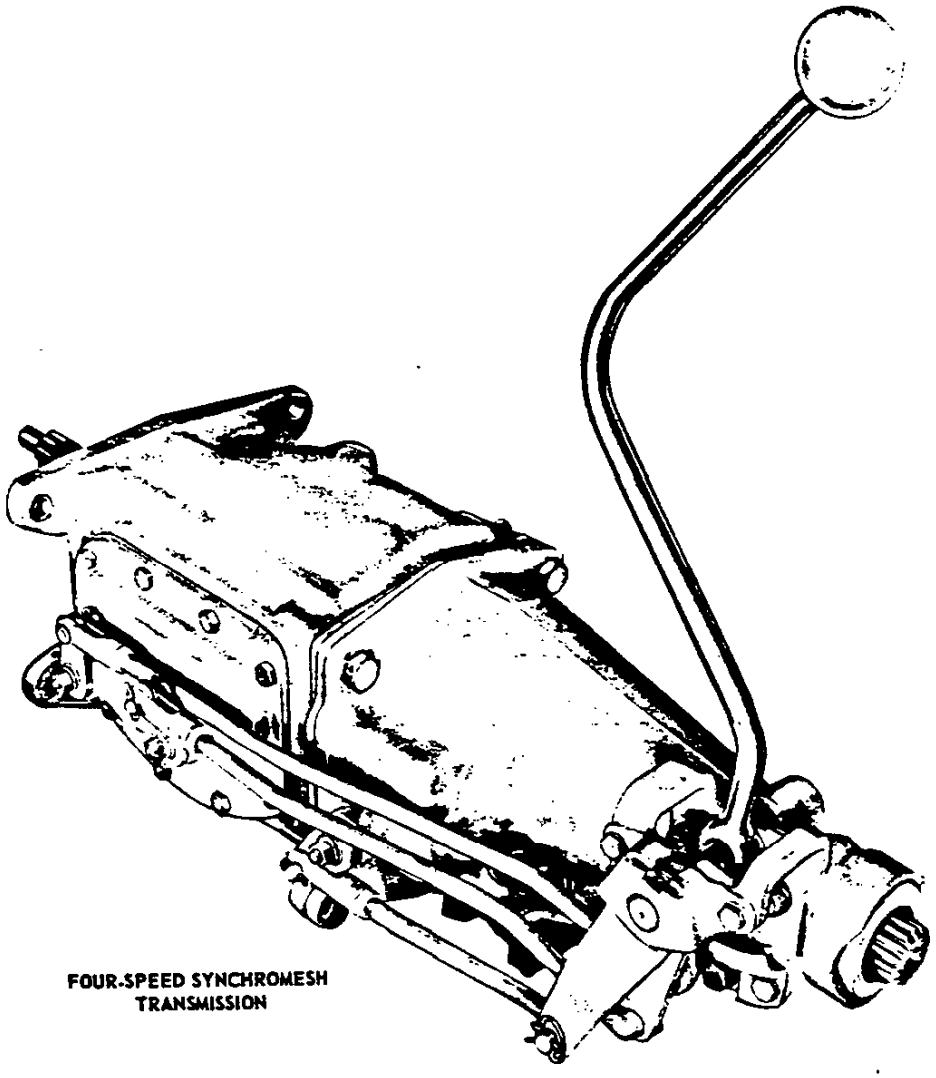
TRANSMISSIONS



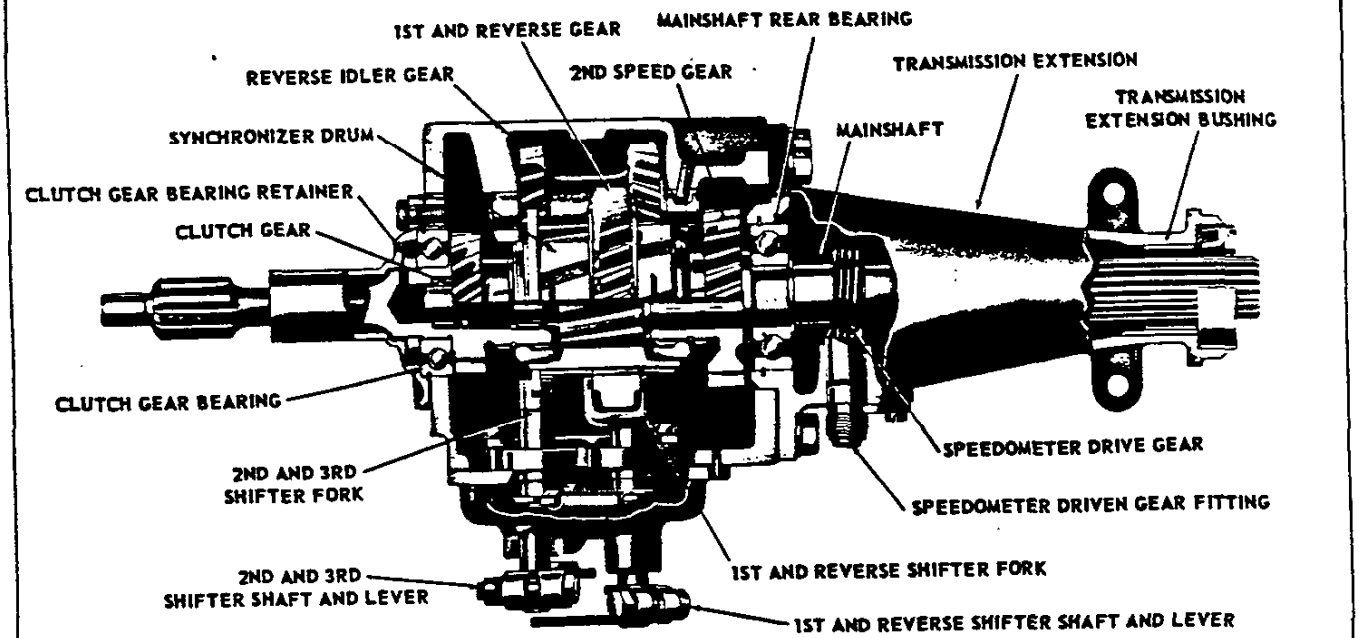
FOUR-SPEED SYNCHROMESH TRANSMISSION

THREE AND FOUR-SPEED CONVENTIONAL TRANSMISSIONS 3

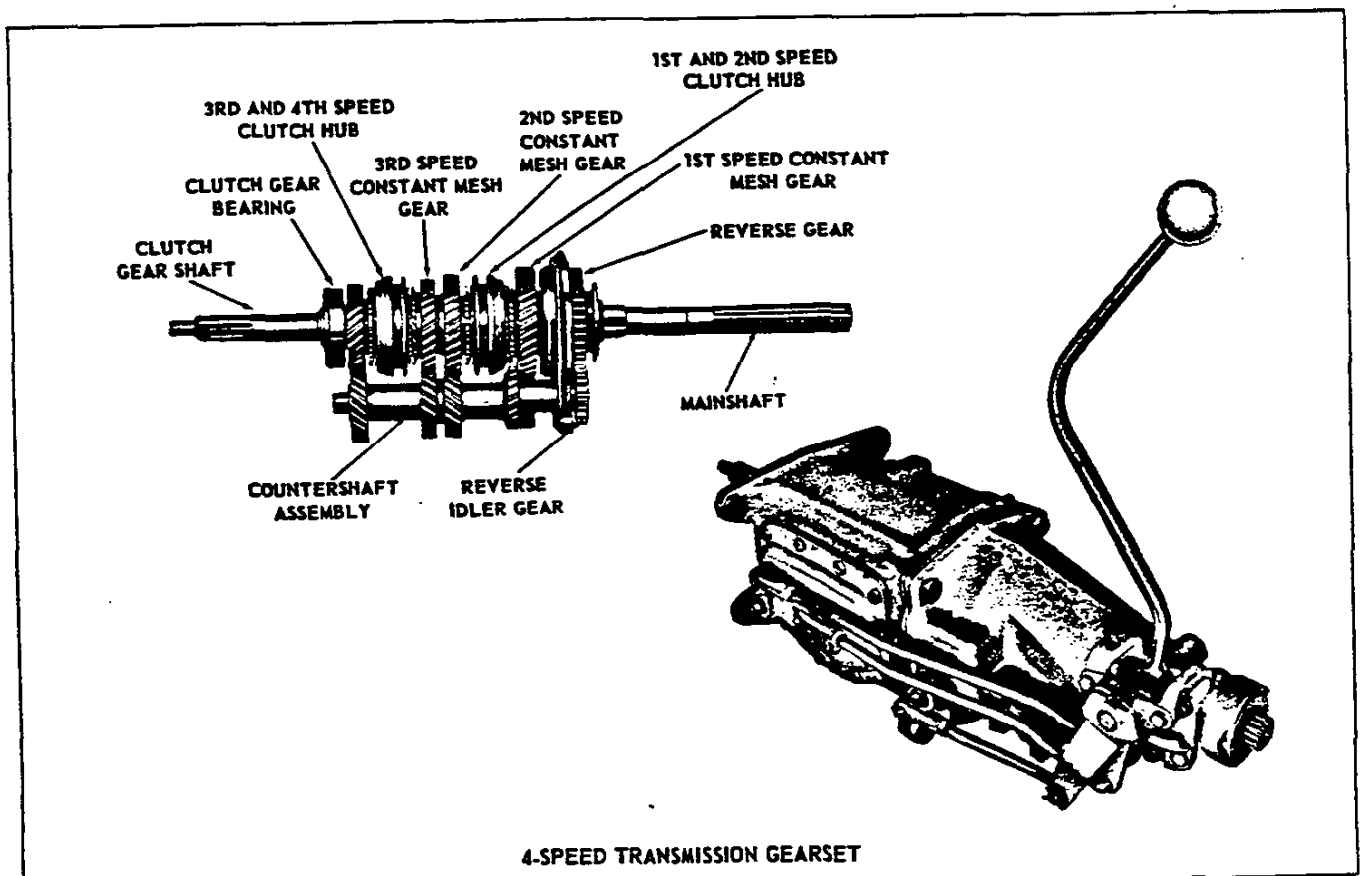
OVERDRIVE UNIT 4

POWERGLIDE 4

TURBOGLIDE 6



TOP VIEW OF CONVENTIONAL 3-SPEED TRANSMISSION AND EXTENSION



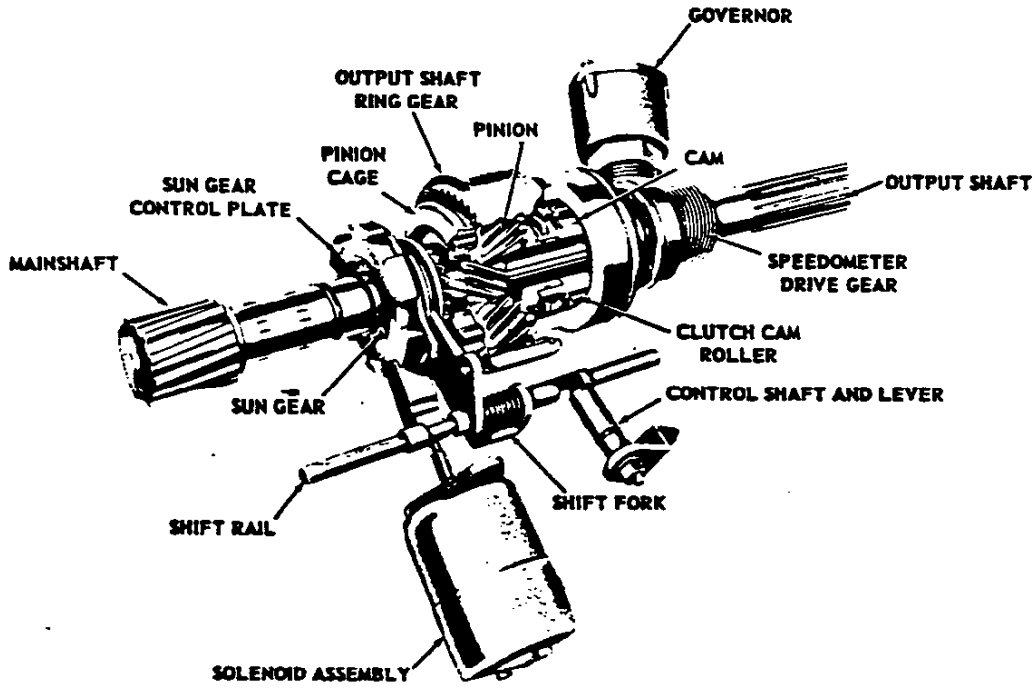
4-SPEED TRANSMISSION GEARSET

THREE AND FOUR-SPEED CONVENTIONAL TRANSMISSIONS

ITEM			235 cu. in. 6 cyl.	283 cu. in. V-8	348 cu. in. V-8	RPO (V-8's only*)+
Make			Own, synchromesh, manual shift			
Type			3-Speed			4-Speed
Gearshift	Control		Remote			
	Type		Lever			
	Location		On steering column			On floor
Gears	Type		All helical			
	Material		Forged steel, hardened			
	Synchronization		2nd and 3rd			1st, 2nd, 3rd, 4th
	Constant mesh gears		2nd			1st, 2nd, 3rd
	Sliding gears		1st and reverse			Reverse
	Gear Ratios	First	2.94:1	2.47:1		2.20:1
		Second	1.68:1	1.53:1		1.66:1
		Third	Direct	Direct		1.31:1
		Fourth				Direct
		Reverse	2.94:1	2.80:1		2.26:1
Speedometer Gears	Tooth pitch		28			
	Teeth	Drive	8			
		Driven	21		20	@
Lubricant	Type recommended		SAE 90 transmission multi-purpose or mineral oil lubricant			
	Capacity		2 pints			3 pints
Oil seal (transmission extension)			Steel encased double seal of spring loaded synthetic rubber and felt			
Anti-friction bearings			See anti-friction bearing chart			

* - Fuel Injection and Turbo-Thrust Engines only.
@ - 21 driven teeth for Fuel Injection and 20 for Turbo-thrust engines.
+ - This transmission also optional on Corvette.

OVERDRIVE UNIT



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.

Minimum Cut-in Speed ---------- 27-30 MPH

Cut-out Speed ---------- 18-22 MPH

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	2.94:1	@

SPEEDOMETER GEARS

Tooth Pitch ---------- 30

Teeth-driving and Driven ---------- 8 & 24

LUBRICANT

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

Capacity

Transmission ---------- 2 pints

Overdrive unit ---------- 1 pint

Total ---------- 3 pints

POWERGLIDE (RPO 313)

GENERAL DATA

Make & Type ------ Own, automatic hydraulic torque converter with planetary gear system for reverse and low; converter maximum torque ratio (at stall) ---------- 2.1:1

Total Transmission Torque Multiplication (converter planetary gear ratio)

Maximum overall transmission ratio ------- 3.82:1

Low gear drive or low range ------ 3.82:1 to 1.82:1

Reverse range ---------- 3.82:1 to 1.82:1

Oil Type ------ Automatic transmission fluid, type A Suffix "A"

Oil Capacity -------- 10-1/2 quarts; refill 4-1/2 qts.

Oil Cooler -------- Integral with radiator assembly and connected to trans. by inlet and outlet pipes

Selector Lever

Location ---------- On steering column

Operation ---------- Actuates manual valve in hydraulic control system

Positions (indicated in quadrant on steering column) ---------- Five; (left to right), Park - Reverse - Neutral - Drive - Low

Parking Lock

Type ---------- Pawl and gear

Parking Lock (Cont'd.)

Operation ---------- Applied by selector lever through positive linkage

Flywheel --- Steel stamping with welded-on ring gear

Drive Range - Representative Shift Points:

Accelerator pedal position:	Miles per hour Upshift	Downshift
Closed throttle	13-15	10-13
Throttle at detent	30-45	14-18
Full throttle	48-53	45-50

HYDRAULIC TORQUE CONVERTER

Type ---------- Three element

Driving Member (pump) ---------- Sheet metal, multi-vane type, spot weld to torque converter housing. The housing cover is bolted to the flywheel

Driven Member (Turbine) -- Sheet metal, multi-vane type supported by torque converter housing cover. Turns independently of housing Splined to input shaft.

Reaction Member (stator)---------- Aluminum air foil type supported on a stationary sleeve by an overrunning clutch of cam and roller design.

HIGH CLUTCH

Type ---------- Multiple-disc

Discs ---------- Driving; number and type Four, steel with cork and paper facings, bonded.

Driven; number and type ---------- Five, steel

PLANETARY GEAR UNIT

Type ---------- Compound planetary

Gear Ratios

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

Low range ---------- 1.82:1

Reverse ---------- 1.82:1

Low brake band ---------- Double-wrapped design (linked circular segments)

Low band servo

Type ---------- Piston, one release spring

Reverse brake band ---------- Single strap

Reverse band servo

Type ---------- Piston with release spring and inner cushioning spring.

HYDRAULIC CONTROLS

Manual Valve

Type ---------- Spool

Pressure Regulator Valve:

Type ---------- Spool

Pressure range (PSI)	V-8	6-Cyl.
Drive and Neutral*	50-120	50-77
Low and Park*	120	77
Reverse	98-250	96-181

Governor

Type ---------- Centrifugal

Drive ---------- From transmission output shaft

Location ---------- Accessible from rear of transmission left side

Operation ---------- Regulates pump oil pressure to automatic shifting control valve body

@ - Overdrive does not function in Reverse.

* - At maximum idling speed of 425 RPM in drive.

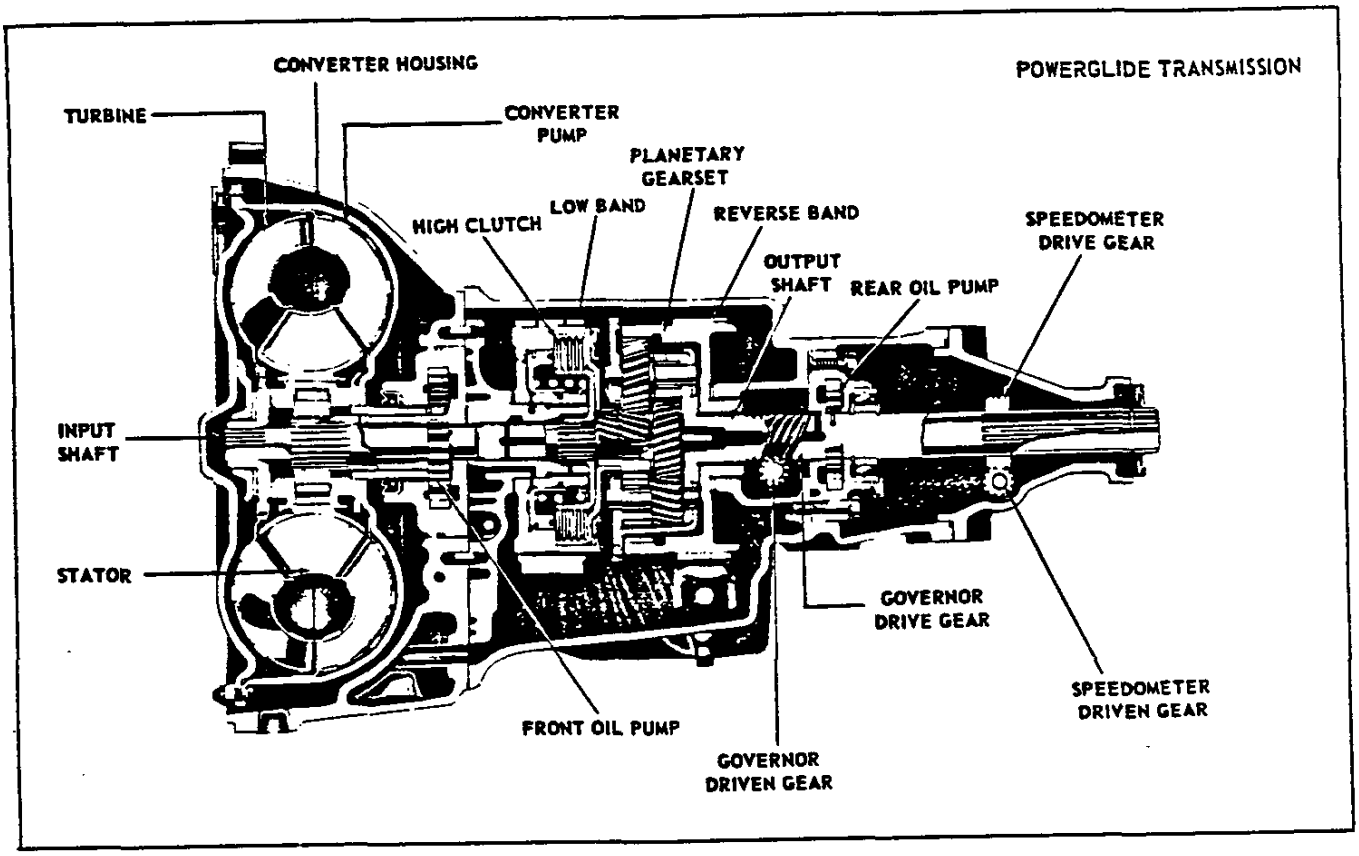
HEAVY DUTY POWERGLIDE

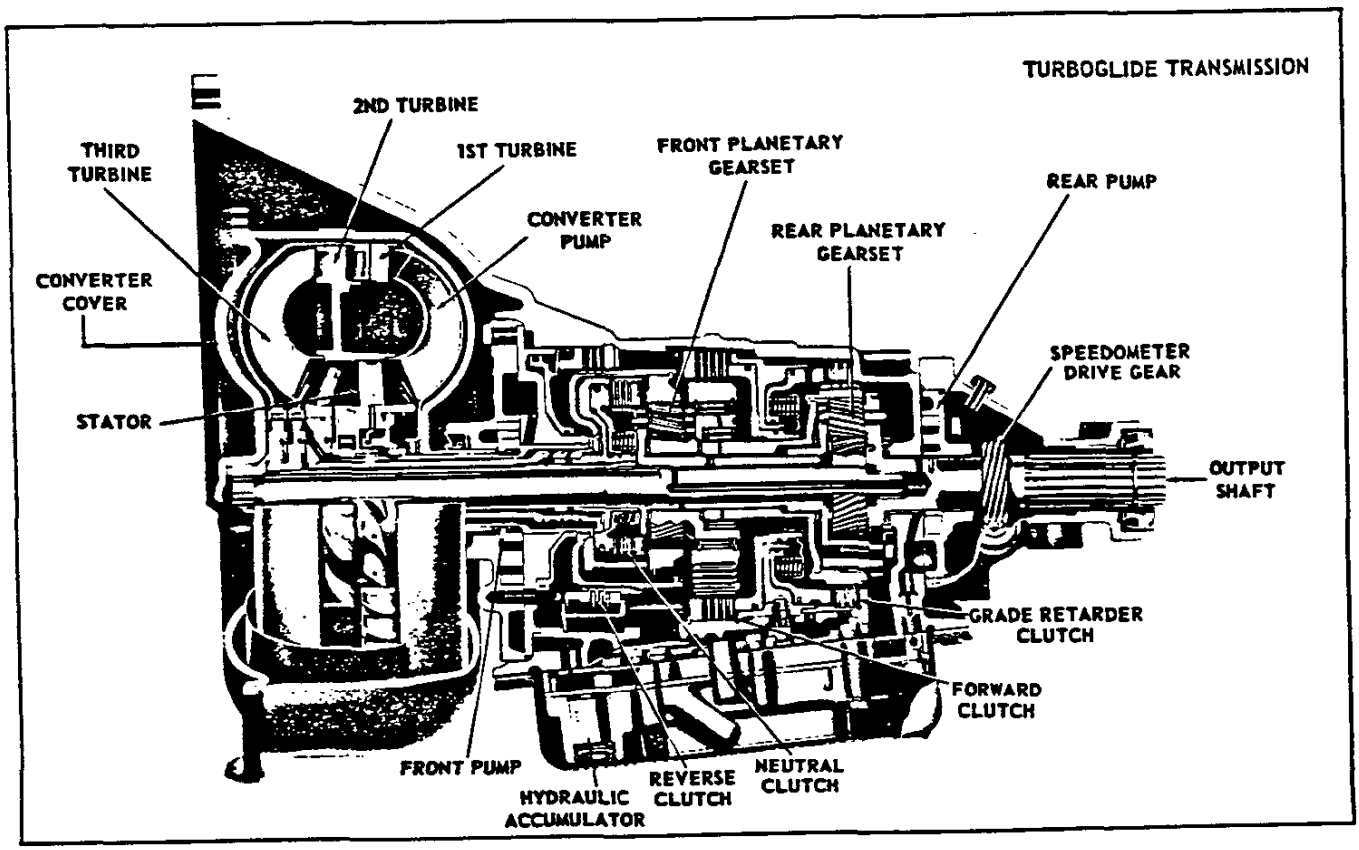
This transmission used with 348 Cubic Inch Engine (4-barrel carburetor with special camshaft) is same as regular production except for following differences:

CONVERTER COVER
Type ---------- 33 bolt

HIGH CLUTCH
Type ---------- Five plate

GOVERNOR
Type ---------- Modified to raise shift point from 4700 rpm to 5400 rpm


POWERGLIDE TRANSMISSION
CONVERTER HOUSING
TURBINE
CONVERTER PUMP
PLANETARY GEARSET
LOW BAND
REVERSE BAND
HIGH CLUTCH
SPEEDOMETER DRIVE GEAR
OUTPUT SHAFT
REAR OIL PUMP
INPUT SHAFT
STATOR
GOVERNOR DRIVE GEAR
SPEEDOMETER DRIVEN GEAR
FRONT OIL PUMP
GOVERNOR DRIVEN GEAR


TURBOGLIDE TRANSMISSION
2ND TURBINE
THIRD TURBINE
1ST TURBINE
FRONT PLANETARY GEARSET
REAR PUMP
CONVERTER PUMP
REAR PLANETARY GEARSET
CONVERTER COVER
SPEEDOMETER DRIVE GEAR
STATOR
OUTPUT SHAFT
GRADE RETARDER CLUTCH
FORWARD CLUTCH
FRONT PUMP
HYDRAULIC ACCUMULATOR
REVERSE CLUTCH
NEUTRAL CLUTCH

GENERAL DATA

Make ---------- Own
Type ---------- Triple turbine hydraulic torque converter with first turbine and second turbine driving output shaft through planetary gearsets. Third turbine drives output shaft directly. Planetary gearsets also provide Reverse and Grade Retarder operation. Two position stator vanes provide extra multiplication.
Drive Position Torque Multiplication (maximum)
Low stator angle ---------- 3.8
High stator angle ---------- 4.3
Reverse Position Torque Multiplication ---------- 3.1
Oil Type ---------- Type A Suffix "A"
Oil Capacity
Dry ---------- 19 pts.
Refill ---------- 4 pts.
Oil Cooler ---------- Integral with radiator assy. and connected to transmission by inlet and outlet pipes
Selector Lever
Location ---------- On steering column
Operation ---------- Actuates manual valve in hydraulic control system
Quadrant Positions (on stg. column)
Number ---------- Five
P ---------- Park
R ---------- Reverse
N ---------- Neutral
D ---------- Drive
GR ---------- Grade Retarder
Line Pressures
Park ---------- 80 PSI
Reverse ---------- 80-200 PSI
Neutral ---------- 80 PSI
Drive ---------- 80-200 PSI
Grade Retarder ---------- 80 PSI

HYDRAULIC TORQUE CONVERTER

Type ---------- Five element
Driving Member (pump) ---------- Sheet metal, multi-vane type, spot-welded to torque converter housing. Housing cover is bolted to the flywheel.
Driven Members
First turbine ---------- Die cast aluminum axial flow air foil type, drives rear sun gear shaft
Second turbine ---------- Die-cast aluminum axial flow air foil type, pinned and press fit to drive front ring gear shaft.
Third turbine ---------- Sheet metal, multi-vane type, drives output shaft
Reaction member (stator) ---------- Magnesium air foil type with dual pitch, controlled by accelerator position.

CLUTCHES

Type ---------- Multiple-disk
Material
Driven plates --- Faced with non-metallic compound
Pressure plate ---------- Sintered iron
Reaction plates ---------- Steel
Return Spring
Forward & Grade Retarder ---------- Radial row of coil springs
Reverse ---------- Diaphragm type
Active Faces
Forward ---------- Eight
Reverse and neutral ---------- Six

PLANETARY GEAR UNIT

Material ---------- Steel
Number of Pinions
Front ---------- Six
Rear ---------- Three
Drive Gear Ratios
Drive position
Front planetary gear set ---------- 1.63:1
Rear planetary gear set ---------- 2.67:1
Gear Retarder position
Rear planetary gear set ---------- 2.67:1

PARKING LOCK MECHANISM

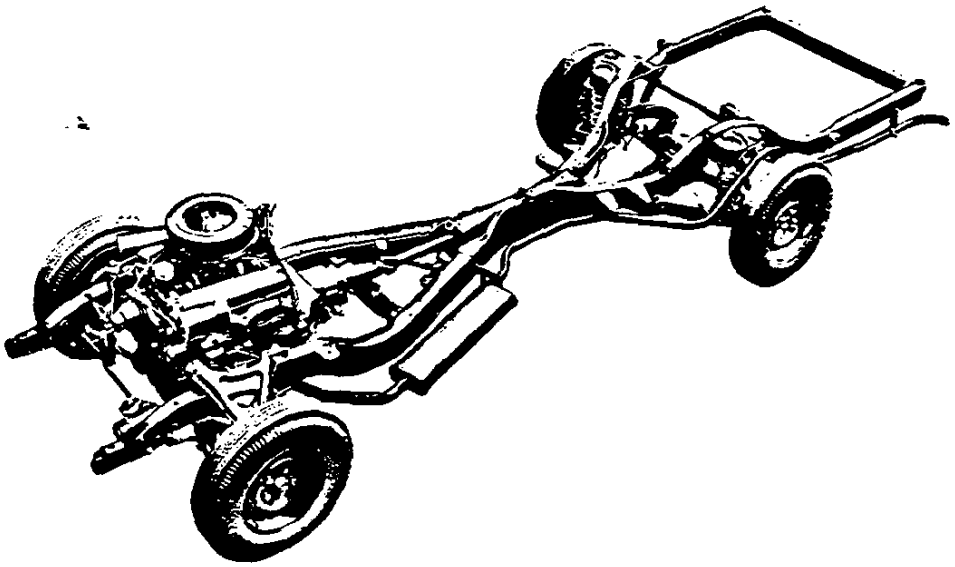
Type ---------- Spring loaded wedge
Operation ---------- Applied by selector lever through positive linkage

SPEEDOMETER GEARS *

Teeth
Drive gear ---------- 8
Driven gear
283 cu. in. engine ---------- 20
348 cu. in. engine ---------- 18

* - *Also applicable to Powerglide transmission*

CHASSIS



FRAME 2

FRONT SUSPENSION 2

STEERING 4

REAR SUSPENSION 5

AIR SUSPENSION 6

REAR AXLE 7

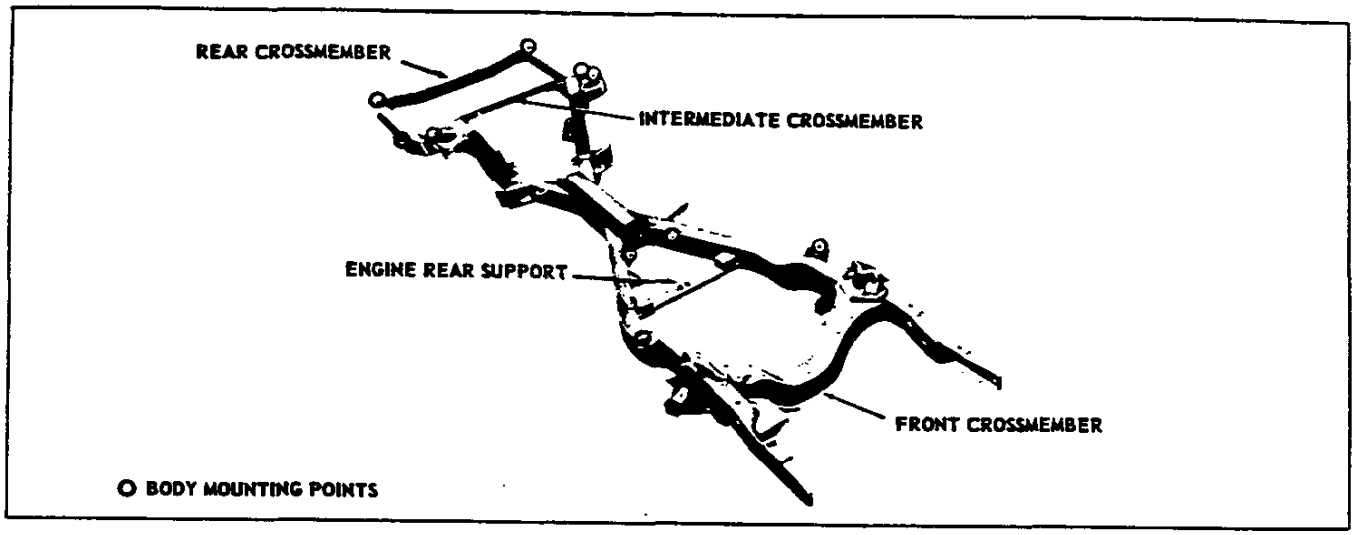
POSITRACTION 8

BRAKES 9

DRIVELINE 10

WHEELS & TIRES 10

ELECTRICAL COMPONENTS 11

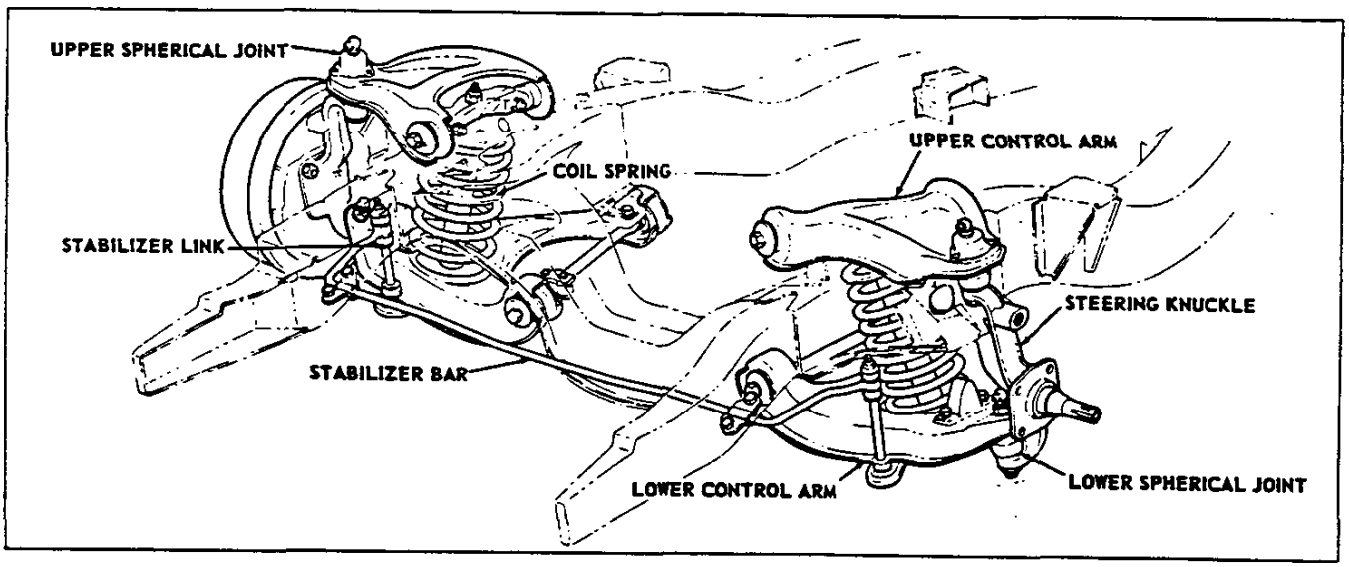


FRAME

GENERAL

Make ---------- Various
Type ---------- X-design
Material ---------- Hot rolled, pickled steel
Material yield point ---------- 33000 lb./sq. in.
Material elongation ------ 25% minimum in 2 inches
Sidemember Section:
Modulus (in^3) ---------- 1.90.
Moment of inertia ---------- 4.27

Maximum Overall Length (Approx.) ---------- 195.3
Maximum Width (over sidemembers at rear crossmember) ---------- 47.50
Convertible Frame ------- Steel plates welded to top and bottom of sidemember and center beam.
Body Mounts:
Total, all models ---------- 12
Mounting locations ---------- See frame diagram



FRONT SUSPENSION

GENERAL

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

WHEEL TRAVEL

Vertical, Loaded Conditions
Metal to Metal ---------- 3.90 up, 4.54 down

Wheel to Spring Ratio ---------- 1.87:1

SPRING BUMPERS

Material and number ------ Rubber, 2 each RH & LH
Location ---------- On topside of lower control arm and topside of frame crossmember.

SHOCK ABSORBERS

Make ---------- Delco
Type ---------- Direct, double acting hydraulic
Mounting ---------- Vertically from lower control arm through coil spring to fr. suspension crossmember.
Model Number ---------- 506G-52A; 506G-63A
Valve Code ---------- C3.75J8-8-8/OXJ; C4J8-8/OXJ
Piston Diameter and Travel ---------- 1.00; 4.9375

STEERING KNUCKLE

Type ---------- Forged steel with integral brake cylinder mounting, detachable steering arms.
Spindle Diameters:
At inner bearing ---------- 1.2492-1.2497
At outer bearing ---------- .7491-.7496

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.
Seals:
Upper ---------- Rubber with bonded nylon bushing
Lower ---------- Rubber with steel cover
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 high pressure fitting at top of each socket.

WHEEL BEARINGS

Wheel bearing lubricant --- High melting point grease

STABILIZER 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
All except 1111-19-21;11-1270;11-1280;1511-19-37-39

STABILIZER BAR

Type ---------- Link
Diameter ---------- 0.6875
Bushings ---------- Rubber; 10 (1 each at frame side rail and 4 each left hand and right hand at link attachment).
Usage - All except 1111-19; 11-1270; 11-1280; 1511-19

FRONT WHEEL ALIGNMENT:

Caster ---------- $0^{o}\pm30'$
Camber ---------- $+30'\pm30'$
Steering axis inclination ---------- $7^{o}11'$
Toe-in (per wheel) ---------- 1/16-1/8

SPRINGS

Application	Series		1100-1200							1500-1600					1700-1800				
	Model		11	15	19	21	35	70	80	11	19	35	39	45	19	35	37	39	67
6 Cylinder	Manual		C	A	C	C	A	B	B	C	C	A	A	A	A	A	A	A	E
	Powerglide		D	E	D	D	E	B	B	D	D	E	E	E	E	E	E	E	J
V-8 283 cu.in	Manual or Turboglide		A	A	A	A	A	B	B	A	A	A	A	A	A	A	A	A	E
	Powerglide		E	E	E	E	E	B	B	E	E	E	E	E	E	E	E	E	J
	Air Cond	Powerglide	F	F	F	F	F	-	K¢	F	F	F	F	F	F	F	F	F	G
		Turboglide	J	J	J	J	J	-	D¢	J	J	J	J	J	J	J	J	J	F
V-8 348 cu.in	Manual or Turboglide		E	E	E	E	E	-	-	E	E	E	E	E	E	E	E	E	J
	Powerglide		J	J	J	J	J	-	-	J	J	J	J	J	J	J	J	J	F
	Air Cond	Powerglide	G	G	G	G	G	-	L¢	G	G	G	G	G	G	G	G	G	H
		Turboglide	F	F	F	F	F	-	K¢	F	F	F	F	F	F	F	F	F	G

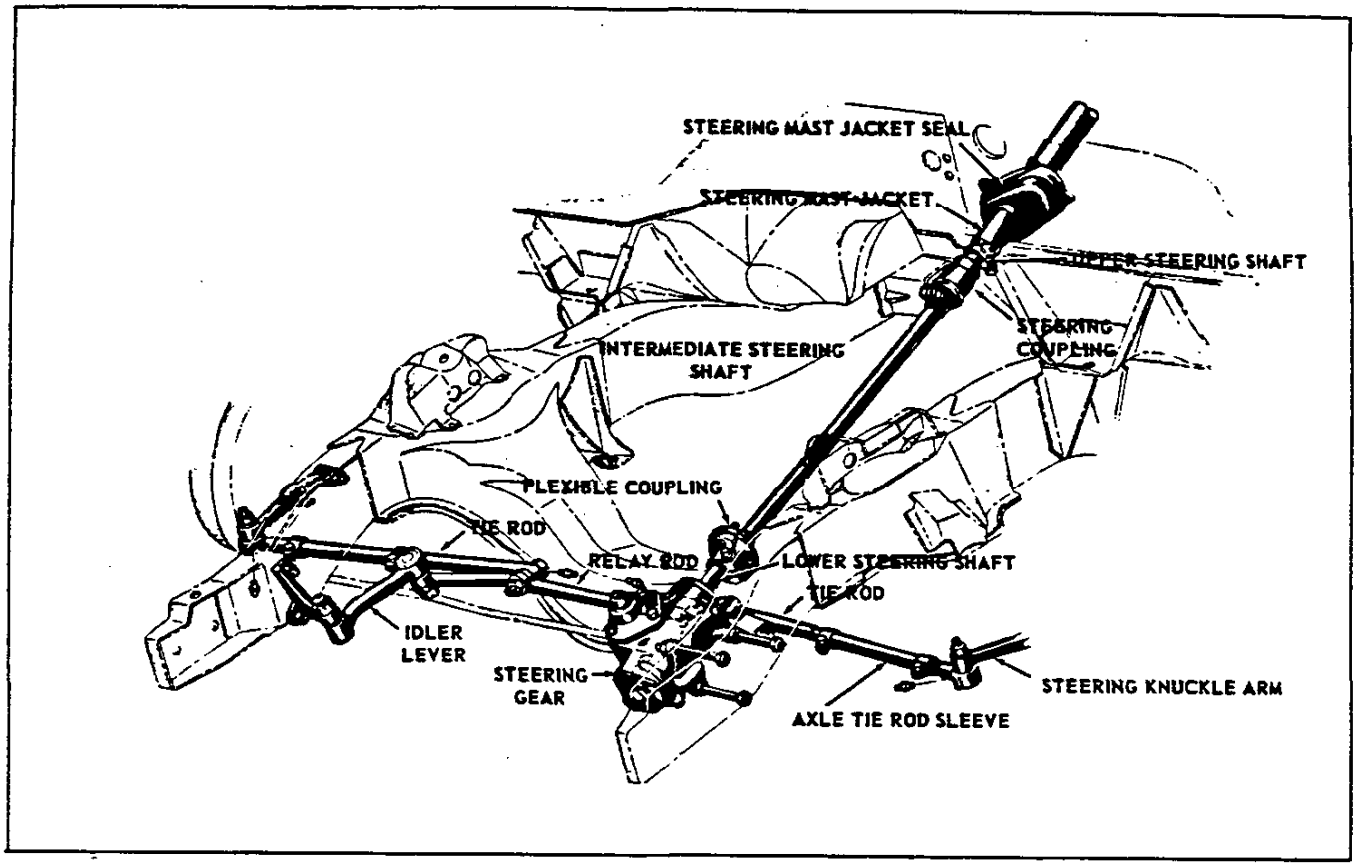
¢ 1280 only

Data

Application	A	B	C	D	E	F	G	H	J	K	L
Part No	3741497	3746851	3746852	3746853	3758760	3758763	3759987	3764408	3764582	3752906	3752908
Type	Right hand helix										
Material	High alloy steel										
No. coils	8.67-10.11	7.67-9.11			8.67-10.11					7.67-9.11	
Wire Dia	.630	.664			.630	.648				.664	
Outside dia	5.062	5.130			5.062	5.098				5.130	
Pitch dia	4.432	4.466			4.432	4.450				4.466	
Ht Free	17.05	15.03	15.32	15.53	17.33	17.08	17.27	17.56	16.82	15.76	15.98
Ht Working	10.30@ 1855#	10.30@ 1750#	10.30@ 1855#	10.30@ 1935#	10.30@ 1935#	10.30@ 2100#	10.30@ 2160#	10.30@ 2250#	10.30@ 2020#	10.30@ 2020#	10.30@ 2100#
HT-curb wt	10.88	10.68	10.72	10.72	11.10	10.83	11.27	11.13	11.24	10.64	10.67
Cap @ grd*	1095			1130		1240	1270	1320	1195	1195	1235
Deflection rate	275 lb/in	370 lb/in			275 lb/in	310 lb/in				370 lb/in	
	96 lb/in	129 lb/in			96 lb/in	108 lb/in				129 lb/in	

* - Includes unsprung weight

• Revised 6-22-59 • Revised 3-23-59 10-15-58



STEERING

STEERING GEAR

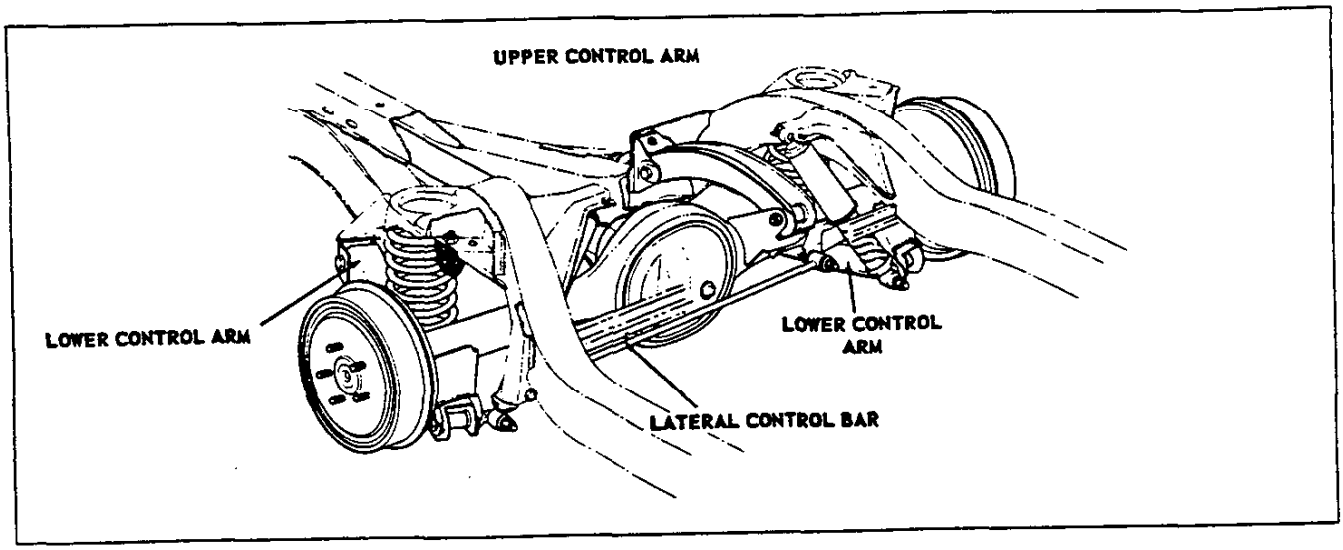
Make	Saginaw
Type	Semi-reversible recirculating ball
Gear Ratio	24:1
Overall Ratio (Approx.)	28:1
Steering Mainshaft Diameter	.750
Steering Column Diameter	2.01
Steering Wheel Diameter	17.00
Turning Diameters	
Outside front:	
Right and left wall to wall	43.6 Ft.
Right and left curb to curb	40.8 Ft.
Inside rear:	
Right and left wall to wall	23.2 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 stop	6.14
To wheel stops on control arm	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	On rear of generator
Drive	From splined extension of generator drive shaft.
Maximum pump pressure	750-800 PSI
Fluid capacity	1.5 pts.
Generator:	
Make	Delco-Remy
Model	1102115
Pulley size (pitch diameter)	3.32, 36°"V"
Ratio (generator to engine)	2.00:1
Belt size:	
Reg. prod. 6-cyl. eng.--	.310 x 44.50 pitch length
Reg. prod. 8-cyl. eng.--	.310 x 56.00 pitch length
Power Application	Double acting piston in power cylinder is actuated by control valve after approximately 3 pounds of pressure is exerted at the steering wheel.
Overall Ratio	24:1
Gear Ratio	20:1



REAR SUSPENSION

GENERAL

Make ---------- Own

Type ---------- Four-link with an upper control arm, a lateral control bar, and 2 lower control arms. Coil springs.

CONTROL ARMS

Mounting:

Upper ---------- Pivotally attached at forward end to frame right sidemember, and on axle housing banjo at rear.

Lower -------- Pivotally attached at forward ends to frame brackets and at rear to axle housing brackets.

LATERAL CONTROL BAR

Mounting -------- Pivotally attached at right side of axle housing banjo and at frame left sidemember.

Diameter ---------- .750

Length (℄ to ℄ of bushing) ---------- 31.45

WHEEL TRAVEL

Vertical, Loaded Conditions

Metal to Metal ---------- 4.32 up, 5.56 down

Wheel to Spring Ratio ----------1.51:1

SUSPENSION BUMPERS

Material and number ------ Rubber, 1 each RH & LH

Location ---- On underside of frame at top of kick-up

SHOCK ABSORBERS

Make ---------- Delco

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

Mounting ----------Short cantilever brackets welded to frame sidemember at upper end and to rear spring anchor plate at lower end.

Model Number ---------- FD503W 69A; FD503W 54A

Valve Code ------- C3, 57G8-8/OXJ; C4.25C8-8/DXJ

Piston Diameter and Travel ---------- 1.00; 8.4375

SPRINGS

Series		1100-1200							1500-1600					1700-1800				
Models		11	15	19	21	35	70	80	11	19	35	39	45	19	35	37	39	67
Standard	6 Cyl	D	C	D	D	C	E	E	D	D	C	D	A	B	C	B	B	D
	All V8	B	C	B	B	C	E	E	B	B	C	B	A	B	C	B	B	D
Heavy Duty	6 Cyl	E	A	E	E	A	F	F	E	E	A	E	-	E	A	E	E	E
	All V8	E	A	E	E	A	F	F	E	E	A	E	-	E	A	E	E	E
Model Application		A		B		C		D			E		F					
Part Number		3744364		3752910		3765137		3754513			3758764		3764330					
Make and Type		Own, right hand helix																
Material		High alloy steel																
Number of Coils		7.8, 9.41		8.8, 10.41				7.8 active, 9.41 total										
Wire Diameter		.681		.583		.648		.587			.630							
Outside Diameter		5.000		4.804		4.934		4.812			4.898							
Pitch Diameter		4.319		4.221		4.286		4.225			4.268							
Height	Free	14.73		16.33		16.02		15.44			14.70		15.14					
	Working	9.55@ 2330#		9.55@ 1560#		9.55@ 2200#		9.55@ 1560#			9.55@ 1750#		9.55@ 1900#					
Height Under Curb Wt		10.58		9.55		10.52		9.55			9.80		10.24					
Capacity at Ground*		1700		1195		1615		1195			1315		1415					
Deflection Rate	At spring	450 lb/in		230 lb/in		340 lb/in		265 lb/in			340 lb/in							
	At wheel	175 lb/in		101 lb/in		145 lb/in		112 lb/in			145 lb/in							

* - Includes unsprung weight

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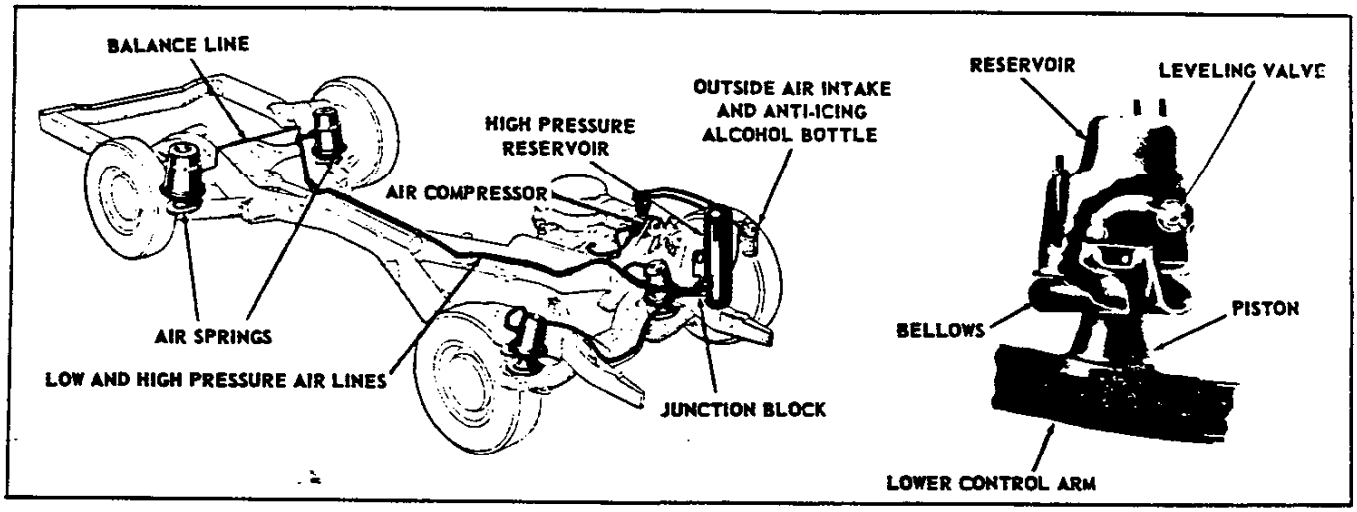


AIR SUSPENSION

GENERAL

Make ---------- Chevrolet
Type and Description ---------- Level Air, with air springs at each wheel and 3 leveling valves. Air supply system consisting of an engine driven air compressor, high pressure accumulator, junction block, anti-icing bottle integral with make up air intake.

AIR SPRINGS

Reservoir:
Material ---------- Stamped sheet steel
Number ---------- One each wheel
Location ---------- On brackets welded to frame sidemembers with lower ends covered with fabric-reinforced rubber bellows.
Leveling Valves:
Orifice diameters:
Right & left front reservoir:
Inlet & exhaust ---------- .020
Left rear reservoir:
Inlet ---------- .031
Exhaust ---------- .042
Balance line orifice ---------- .020
Dead band (design) ---------- ±3/8
Piston:
Material ---------- Hot rolled steel
Number ---------- One each wheel
Location ---------- Welded to suspension lower control arms.
Bellows:
Material ---------- Fabric reinforced rubber
Number ---------- One each wheel
Maximum diameter ---------- 7.350
Diameter at bead ---------- 6.208

AIR COMPRESSOR

Type ---- Air cooled, single cylinder, reciprocating
Capacity ---- 800-1400 cu.in./min. @ 1250 RPM
---- 1350-2400 cu.in./min. @ 2500 RPM
Max. Pressure ---- Relief valve set at 220-250 PSI
Pulley Ratio to Engine ---------- 1.25:1
Pulley Size ---------- 3/8 40°V-belt

AIR SUPPLY SYSTEM PRESSURES

High Pressure to Air Springs ---------- 220-250 PSI
Low Pressure from Air Springs ---------- 0 to 15 PSI
With manual valve closed -------- 0 to 140-165 PSI

HIGH PRESSURE ACCUMULATOR

Size ---- 19.18 high, 5.38 dia., 360 cu.in. capacity
operating Pressure ---------- 220-250 PSI
Minimum Burst Pressure ---------- 1000 PSI
Location ---------- Inside left hand radiator support filler panel.

JUNCTION BLOCK

Function ---------- Combines into one assembly. separate manifold functions for high and low pressure systems, all relief valves, and a manual low pressure shut-off valve for special purposes.
High Pressure Relief ---------- 220-250 PSI
Low Pressure Relief ---------- 15 PSI
With manual valve closed ---------- 140-165 PSI
Location ---------- Top of left hand frame sidemember behind radiator support filler panel.

ANTI-ICING BOTTLE

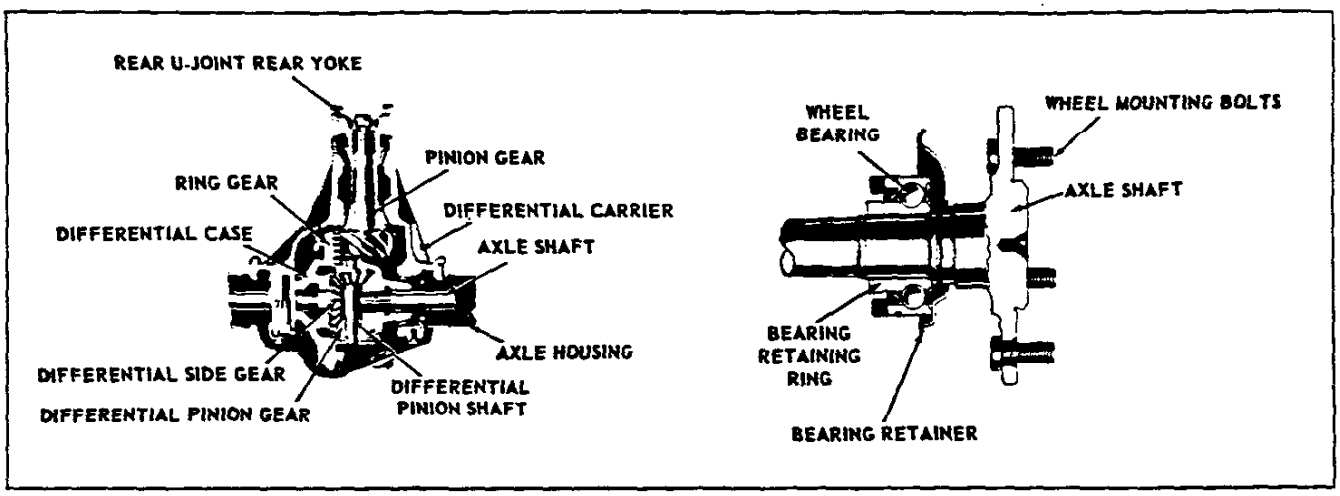
Material ---------- Glass
Size ---------- 5.06 high, 3.18 dia.
Capacity ---------- One pint
Cap Material ---------- Aluminum die casting
Location ---- On left hand front fender inner skirt

AIR CLEANER

Filter Element Material ---------- Nylon fabric
Screen Material ---------- No. 14 galvanized wire

SHOCK ABSORBERS

Front:
Make ---------- Delco
Type ---------- Direct, double acting, hydraulic
Mounting -------- On lower suspension control arm and bracket welded to top of frame sidemember.
Piston dia. and travel ---------- 1.00 x 6.6875
Rear:
Make ---------- Delco
Type ---------- Direct, double acting, hydraulic
Mounting ---- On lower suspension control arm and bracket welded to top of frame sidemember.
Piston dia. and travel ---------- 1.00 x 8.4375



REAR AXLE

GENERAL

Make ---------- Own
Type ---------- Semi-floating
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 ---------- 4 pints
Lubricant Recommended --------- SAE 90 passenger car hypoid lubricant or "Multi-Purpose" lubricant.

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.

DIFFERENTIAL

Type ------ Two pinion with cast arma-steel housing
Bearing cap bolt torque ---------- 70-75 lb. ft.

		3-Speed				4-Speed		Overdrive	
		235-6	283-V8	348-V8		283-V8¢	348-V8	235-6	283-V8
Axle ratio●		3.55:1		3.55§	3.36	3.55:1		3.70:1	
Overdrive lock position								Out	In
Total gear reduction*	First	10.44	8.77		8.30	7.81		10.88	7.61
	Second	5.96	5.43		5.14	5.89		6.22	4.35
	Third	3.55	3.55		3.36	4.65		3.70	2.59
	Fourth					3.55			
	Reverse	10.44	9.94		9.41	7.99		10.88	
Max axle shaft torque in low gear (lb ft) ¶	235 6-cyl	1748						1822	1274
	283 V8 2-bbl		1826					2266	1585
	283 V8 4-bbl		1901					2358	1649
	283 V8 FI		2087			1859			
	283 V8 FI (spec cam)		1975			1759			
	348 V8 4-bbl			2385	2258		2124		
	348 V8 4-bbl (spec cam)			NA	NA		NA		
	348 V8 3X2 bbl			2385	2258		2124		
	348 V8 3X2-bbl (spec cam)			NA	NA		NA		

* - Axle ratio x transmission ratio.
● - Gear reduction x maximum net engine torque x efficiency factor (.90 in direct drive, .85 all others).
¢ - 4-speed transmission available on 283-V8 only when equipped with fuel injection.
§ - 3.55 ratio with special cam engines only.

GEARS, FINAL DRIVE

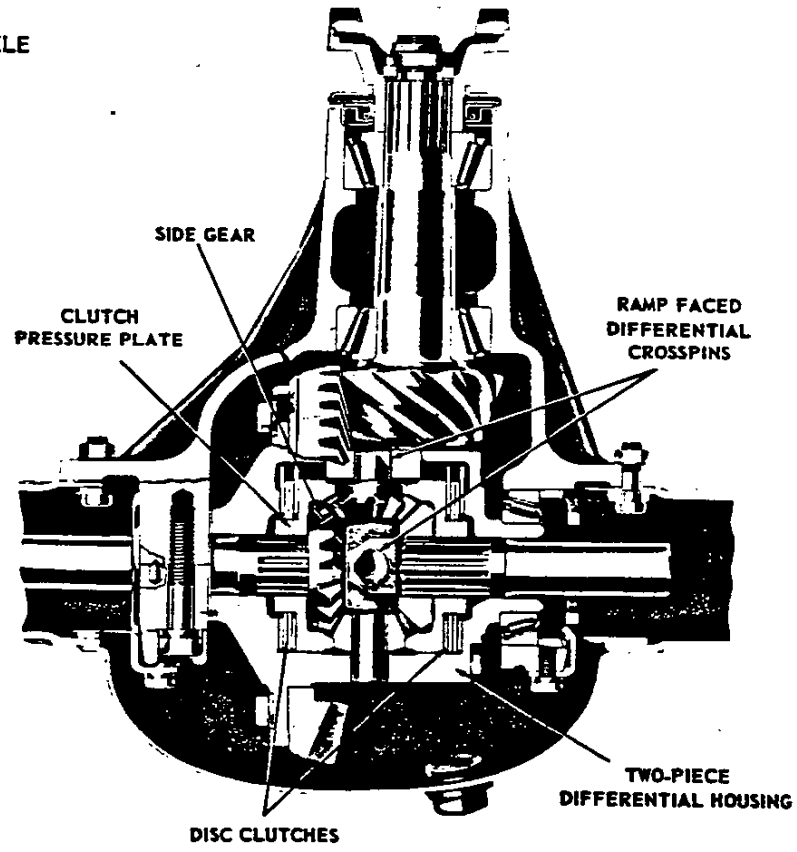
Engine & Transmission	Type	Ratio	No. teeth ring gear & pinion
6 cyl & 283-V8 3-speed	Hypoid	3.55:1	9-32
348-V8 3-speed		3.36:1	11-37
6 cyl & 283-V8 O'drive		3.70:1	9-37
283-V8 4-speed		3.55:1	9-32
348-V8 4-speed		3.36:1	11-37
6 cyl & 283-V8 Pwrgld		3.36:1	11-37
283-V8 Turboglide		3.36:1	11-37
348-V8 Pwrgld & Tbogld		3.08:1	12-37

Pinion Gear:
Mounting ---------- Overhung
Thrust taken by ---------- Pinion bearings
Adjustment --- By shims of .028 average thickness

POWERGLIDE
Total Torque Multiplication (Final Drive Gears, Torque Converter and Planetary Gears):
Drive:
6-cylinder & 283 cu. in. V8 --- 12.84:1 to 3.36:1
348 cu. in. V8 ---------- 11.77:1 to 3.08:1
Low or reverse:
6-cylinder & 283 cu. in. V8 -- 12.84:1 to 6.12:1
348 cu. in. V8 ---------- 11.77:1 to 5.61:1

TURBOGLIDE
Total Torque Multiplication (Final Drive Gears, Torque Converter and Planetary Gears):
Drive:
283 cu. in. V8 ---------- 14.45:1 to 3.36:1
348 cu. in. V8 ---------- 13.24:1 to 3.08:1
Reverse:
283 cu. in. V8 ---------- 10.4
348 cu. in. V8 ---------- 9.5

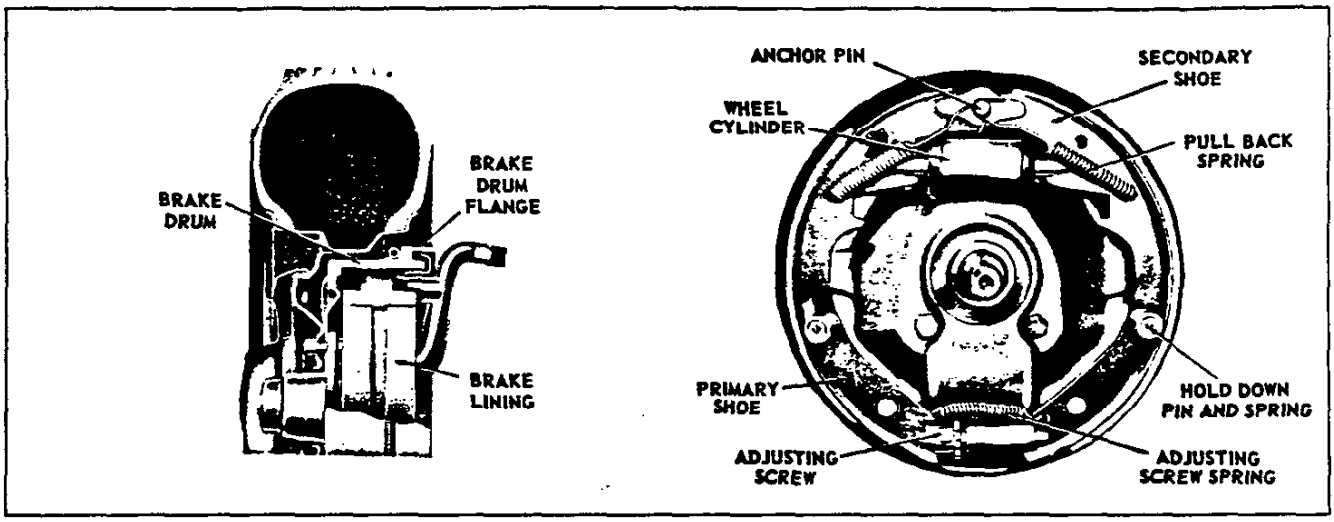
POSITRACTION REAR AXLE



POSITRACTION

Make and Type ---------- Spicer, limited slip, with dual multiple disc clutches applied by reaction to drive line torque through the differential side gears.

Clutch Driving Plate No. and Mat. ------- 4, CR steel
Clutch Driven Plate No. and Mat. ------- 4, CR steel
Number of Pinions ---------- 4
Active faces ---------- 3



BRAKES

SERVICE BRAKES

Make ---------- Own
Type ---------- Servo, four wheel hydraulic
Brake Drum:
Type ---------- Composite
Rim material ---------- Cast alloy iron
Web material ---------- Pressed steel
Diameter, front and rear ---------- 11
Total effective area ---------- 328 sq. in.
Distribution of Braking Effort (theoretical):
On front wheels ---------- 56%
On rear wheels ---------- 44%
Brake Lining (dimensions after grinding):
Material ------- Full molded asbestos composition
Width, front brakes ---------- 2.75
Width, rear brakes ---------- 2.00
Thickness ---------- .175
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 ---------- 1.329
Wheel Cylinders:
Piston travel ---------- 0.221
Mounting ---------- Front, on wheel spindles, rear, on backing plate.
Front, inside diameter ---------- 1.125
Rear, inside diameter ---------- 1.00
Braking Ratio:
Pedal ---------- 6.15:1
Hydraulic ---------- 4.53:1
Total overall ---------- 27.9:1

* - 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
Pad cover material ---------- Rubber
Brake system fluid capacity --- 0.70 pint (approx.)
Brake fluid recommended --------- Delco Super 11

PARKING BRAKE

Make and Type --------- Own, 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 upward pressure on integral lever suspended at left cowl side kick panel.

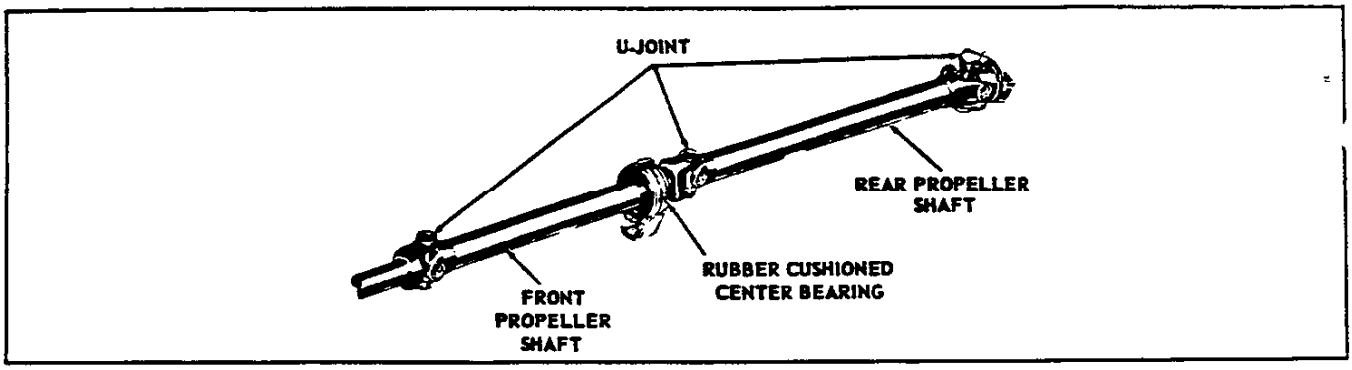
POWER BRAKES (RPO 412)

Type ---------- Regular production master cylinder assisted by vacuum power unit.
Power Unit Location ---------- Mounted on dash under hood.

Braking Assistance (percentage):
By vacuum cylinder ---------- 40%
By foot pedal ---------- 60%
Braking Ratio:
Pedal ---------- 3.43:1
Hydraulic ---------- 4.53:1
Overall ---------- 15.5:1
Pedal Load to Actuate Power Brakes --------- 10 lb.

STOP LIGHT SWITCH (Reg. prod. & RPO 412)

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



DRIVELINES

SPLINES

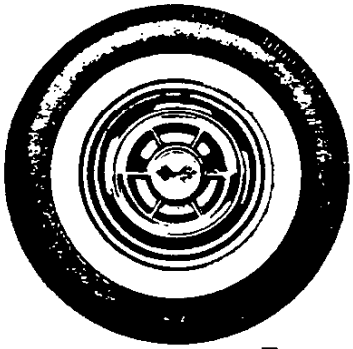
Clutch Disc to Trans. Clutch Gear Shaft ---------- 10 straight side
Trans. Mainshaft to Fr. U-joint Fr. Yoke ---------- 16 involute
Fr. Prop. Shaft to Intermediate U-joint Fr. Yoke ---------- 9 straight side ¢
Rear U-joint R. Yoke to R. Axle Pinion Shaft ---------- 17 involute
Diff. Side Gears to R. Axle Shafts ------ 17 involute

PROPELLER SHAFTS

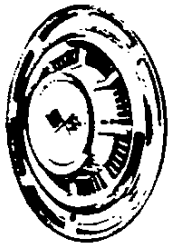
Make ---------- Own
Number and Type ---------- Two, tubular
Tube Outside Diameter ---------- 1.995-2.003
Tube Wall Thickness ---------- .092-.097
Oil Seal ----- Steel reinforced, spring loaded leather
End Types:
Front shaft, fr.; rear shaft fr. & rr.--Welded yoke
Front shaft, rear ---------- Slip yoke

UNIVERSAL JOINTS

Make ---------- Own
Number ---------- Three
Type ---------- Yoke and spider (trunnion)
Trunnion Material ----- Drop forged steel, hardened



STANDARD HUB CAP
ALL MODELS



ACCESSORY WHEEL DISC
ALL MODELS

WHEELS AND TIRES

WHEELS

Make and Type ---------- Own, short spoke disc.
Attachment to hub ---------- 5 hex. nuts, 7/16-20
Bolt circle diameter ---------- 4.75
Offset and rim size -------- .560 x 14 x 5J (modified)
(14 x 5-1/2 J on 9-pass. wagon)

TIRES

Type ---------- Tubeless, blackwall
Size and Ply Rating:
Convertible ---- Sedan Delivery, Sedan Pickup and Station Wagons ---------- 8.00-14-4 *
Balance of line ---------- 7.50-14 -4

¢ - On 10 spline spacing; one spline extra width.

TUBELESS TIRE DATA

Tire size and rating	Loaded rolling radius	Loaded rev's per mile	Loaded cap. each tire	Pressure	
				Frt.	Rr.
7.50-14-4	12.78	789	1085	24	24
8.00-14-4	13.01	774	1175	24	24 $
8.50-14-4	13.30	760	1265	24	24
6.70-15-4#	13.31	760	1065	24	24

- RPO 330 Taxi Equipment only.
* - 8.50-14-4 optional on Sedan Delivery and Sedan Pickup

$ - Rear pressure on 9-pass wagon 28 lb.

10-15-58 • Revised 3-23-59

ELECTRICAL COMPONENTS

HEADLIGHTS
- Make ---------- Guide, T-3
- Type ---------- Dual, horizontal
- Sealed Beam Unit Diameter ---------- 5.75
- Dimmed By ---------- Foot switch
- High Beam Indicator ---------- Chevrolet emblem in speedometer face
- Watts ---------- 37.5-50
- Volts ---------- 12-16
- Location ---------- Outer extremity of radiator grille

PARKING LIGHTS
- Location ---------- Outer extremity of elongated air inlet
- Bulb Replacement ---------- Remove screws in bezel
- Controlled By ---------- Main switch

TAIL AND STOP LIGHTS
- Make ---------- Guide Lamp
- Type ---------- Two single tail lights having two lamps, which serve as tail, stop and turn signals.

DIRECTIONAL SIGNAL
- Make ---------- Guide Lamp
- Type ---------- Flasher, front and rear, self cancelling
- Front ---------- Uses double filament parking bulb
- Rear ---------- Uses double filament parking lamp bulb
- Turn Indicators on Dash ---------- Circles at lower outer sides of speedometer face

BACK-UP LIGHTS
- Location ---------- Mounted at either extremity of sheet metal below the bumper.
- Impala Series and Nomad Station Wagon ---------- Regular production
- All Others ---------- Optional

INSTRUMENT PANEL LIGHTING
- Temperature Gauge ---------- Clear white light
- Gasoline Gauge ---------- Clear white light
- Speedometer Dial ---------- Clear white light
- High Beam Indicator ---------- Red when lighted
- Oil Pressure Indicator ---------- The word "OIL" (black letters on red background) visible when oil pressure is below safety level.
- Generator ---------- The word "GEN" (black letters on red background) visible when generator is not charging.
- Turn Indicators ---------- Green when lighted
- Heater and Radio Controls ---------- Reflected green light
- Glove Compartment ---------- Clear white light when switch is actuated by opening compartment door.

MAIN SWITCH
- Type ---------- Three position "pull" type switch mounted on instrument panel with protective fuse. A rheostat operated by rotating the switch knob controls the brightness of the instrument panel lights. Passenger compartment lights are controlled by a detent in the rheostat when switch knob is rotated to extreme travel counter clockwise.

PASSENGER COMPARTMENT LIGHTS
- Impala Sport Coupe and Sport Sedan---------- Dual roof rail lamps
- Convertible ---------- Dual courtesy lamps, one under instrument panel each side.
- Station Wagon (9-Passenger) ------- Single courtesy lamp on left side to rear of third seat.
- Station Wagons ---------- Single dome light located approximately at center of roof. In addition to switches listed below, a manual switch is provided at light.
- Manually Controlled By ---------- Main switch
- Automatically Controlled By ---------- Opening front doors only on 15-16-17-1800 Series. No automatic control on 11-1200 Series.

REAR LICENSE LIGHTS
- Station Wagons ---------- One bulb under emblem at top of license plate
- All Others ----------Two bulbs in upper side of recess for license plate.

HORNS
- Make ---------- Delco-Remy
- Type ---------- Vibrator
- Number and Location ---------- Two, attached to radiator side support
- Relay in Circuit---------- Yes
- Current
  - High and low notes ---------- 8-11 amperes

BULBS

Location			Quan.	Trade No.	CP¢
Headlamp	Outer	High beam	2	4002	37.5 W
		Low beam			50W
	Inner	High beam	2	4001	37.5 W
Ash Tray Lamp			1	53	1
Cigarette Lighter Lamp			1		
Compass			1		
Headlamp Beam Indicator			1		
Heater Lamp or Air Cond.			1		
Ignition Lock Light			1		
Courtesy Lamp		Convt.	2	89	6
		Sta. Wgn.*	1		
Back-up Lamp			2	1073	32
Directional Signal-Frt.		Parking & turn	2	1034	4-32
Directional Signal-Rear		Tail, stop & turn	4		

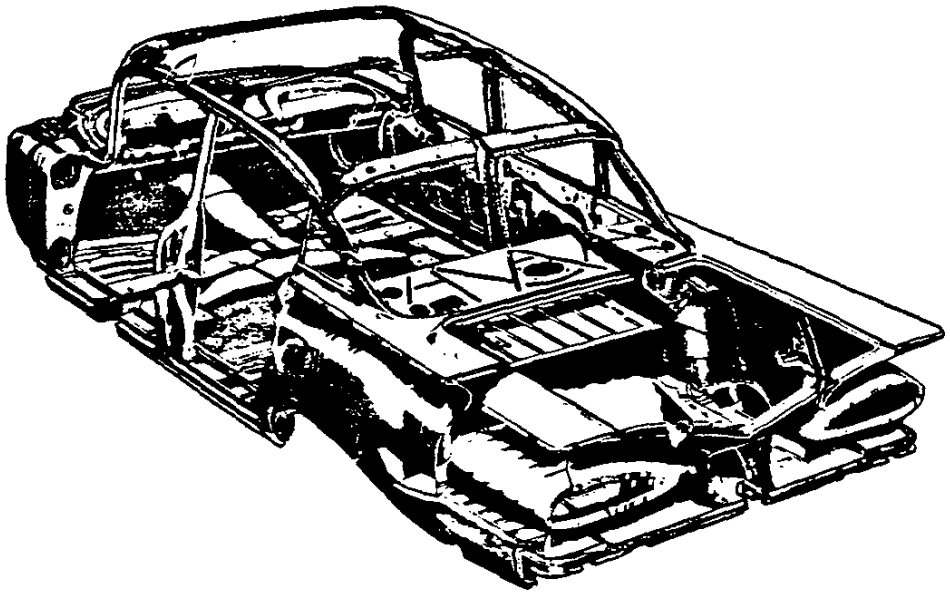
Location		Quan.	Trade No.	CP¢
Clock		1	57	2
Direction Signal Indicator		2		
Generator Indicator		1		
Glove Compartment Light		1		
Instrument Cluster		4 or 5		
Oil Pressure Indicator		1		
Parking Brake Alarm		1		
Side or Dome Lamps	Hardtops	2	90	6
	Others	1	1004	15
License Plate Lamp		1 or 2	67	3
Luggage Compartment Lamp		1	1003	15
Underhood Lamp		1	93	15
Spot Lamp	Inside operated	1	4405	30W
	Outside operated	1	4404	
	Portable	1	4416	
Radio Dial		1	1891	1

FUSES AND CIRCUIT BREAKERS

Device or Circuit Protected		Fuse & Amp	Circuit Breaker	Location
Air Conditioning (incl. heater)		SAE 20		Fuse block
Overdrive Solenoid		SAE 9		Eng. compt.
Underhood Lamp				Dash panel
Cigarette Lighter Lamp		AGC 3		Fuse block
Clock Lamp				
Compass Lamp				
Ignition Light				
Instrument Lamps				
Radio Lamp				
Tell-Tale Lamps				
Back Up Lamp		AGC 10		Fuse block
Clock Motor				
Heater & Defroster (deluxe)				
Heater & Defroster (recirculating)				
Parking Brake Alarm				
Dome lamp		AGC 15		Fuse block
Glove Compartment Lamp				
License Lamp				
Luggage Compartment Lamp				
Stop Lamps				
Tail Lamps				
Directional Signal Indicator		Flasher		Fuse block
Hydraulic Folding Top Motor			15 amp	Switch
Headlamps				
Parking Lamps				
Power Seats			40 amp	Dr. pillar
Power Windows				
Windshield Wiper Motor			10 amp	Switch
Radio Receiver	Manual & pushbutton	AGC 4		Fuse block
	Signal seeking	AGC 7.5		
Spot Lamp	Inside operated	AGC 15		Fuse block
	Outside operated			

*9 - Passenger only
¢ - Candlepower

BODY AND SHEET METAL



INTERIOR DIMENSIONS 2

EXTERIOR DIMENSIONS 6

EXTERIOR PAINT 8

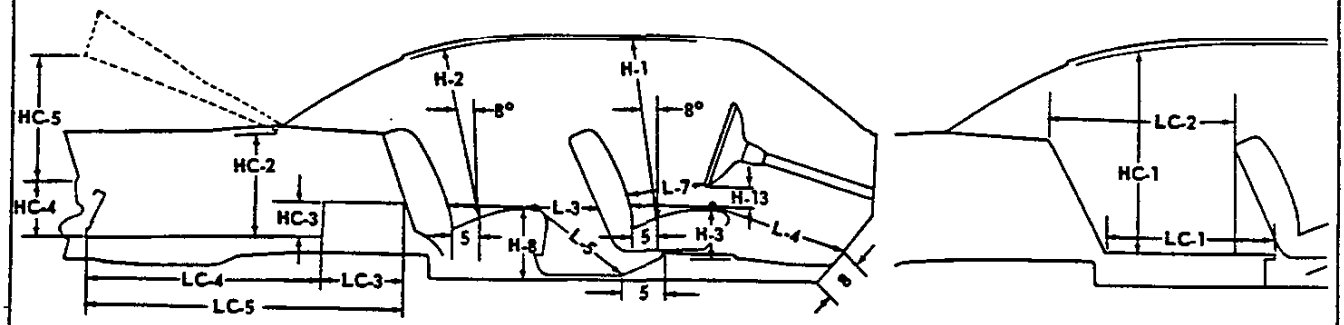
EXTERIOR - INTERIOR COLOR COMBINATIONS 9

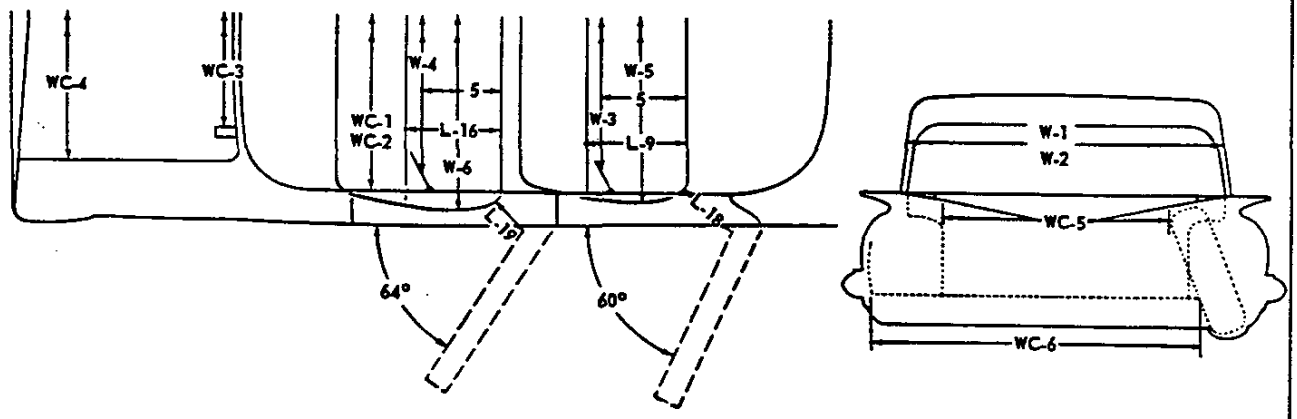
INTERIOR TRIM DISTRIBUTION 13

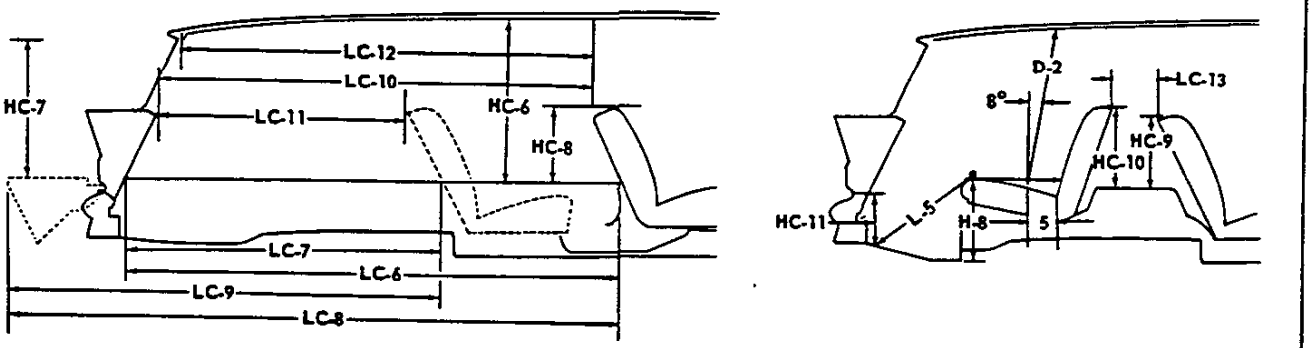
BODY GLASS 17

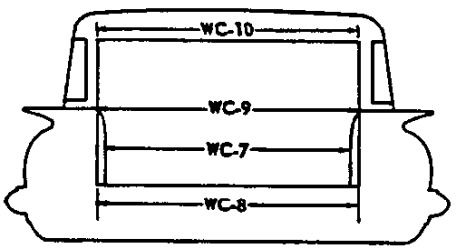
SEAT PADDING CHART 18

NOTE: ALL DIMENSIONS SHOWN WITH A LETTER "c" SUFFIX ARE CHEVROLET DIMENSIONS. ALL OTHERS ARE STANDARD GM DIMENSIONS.
ONLY 8 CYLINDER MODELS ARE SHOWN. (6 CYLINDER MODELS ARE IDENTICAL)









TRUNK AND CARGO CAPACITIES (CU. FT.)

Models			Overall	Standard Luggage
Sedans and Sport Sedan			30.0	19.2
Sport Coupe			32.0	20.1
Convertible		Top up	29.5	19.3
		Top down	28.0	18.9
Station Wagons	6-pass.	Rear seat folded	92.0	---
		Rear seat erect	52.0	---
	9-pass.	Rear and third seat folded	90.0	---
		Rear erect and third folded	50.0	---
		Rear and third erect	6.0	---
Utility Sedan		Inside load space (below window sills)	31.0	---

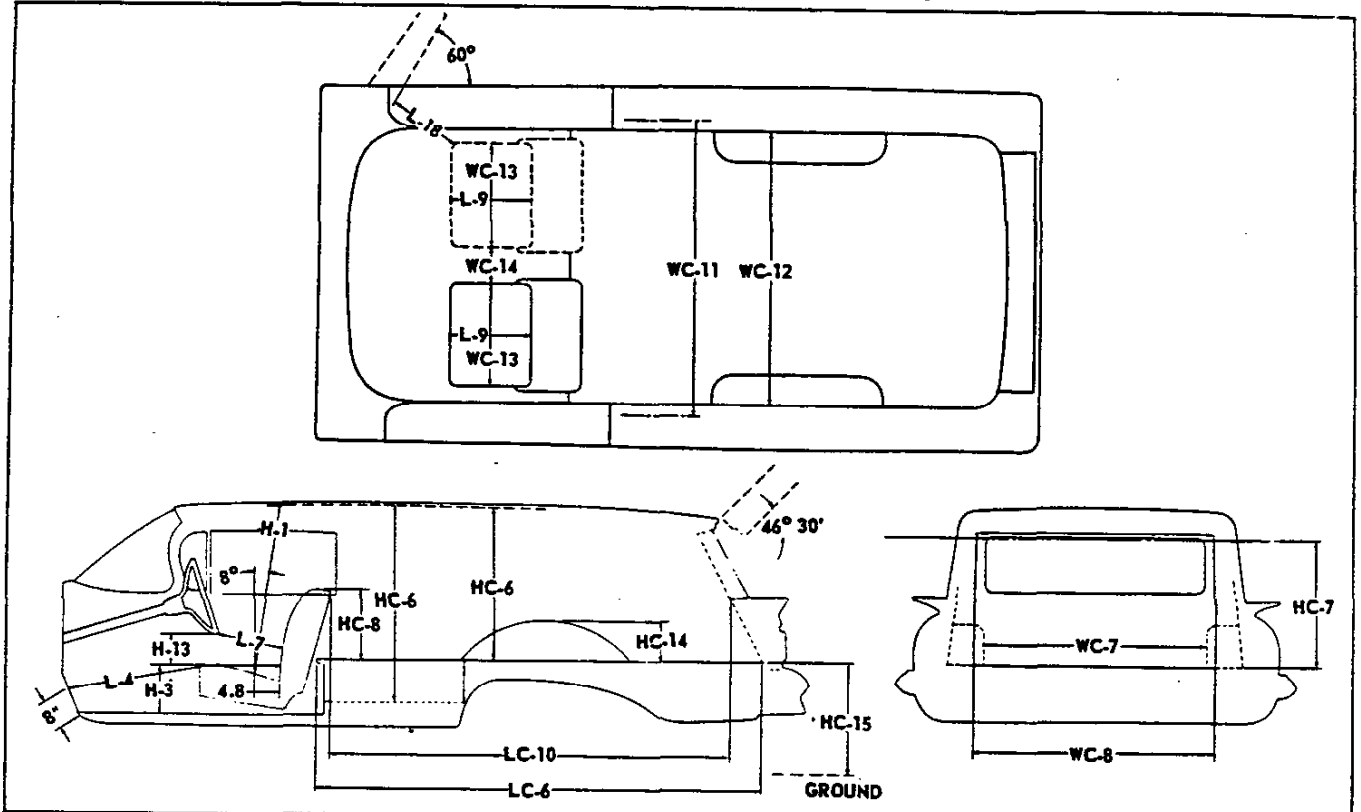
INTERIOR DIMENSIONS

Dim.	Description	MODELS						
	INTERIOR LENGTHS	1211 1221 1611	1219 1619 1819	1837	1639 1839	1867	1215	1235 1635 1645 1835
L-3	Rear compartment room	29.2		25.7	29.5	25.5	29.3	
L-4	Leg room - front	45.0			44.7		44.8	
L-5	Leg room - rear	42.8		37.6	40.8	37.6	41.7	
	Leg room - third							38.3¢
L-7	Steering wheel clearance to seat back	14.2						
L-9	Seat depth -front	19.0					18.3	
L-16	Seat depth - rear	18.3		17.2	18.2	17.2	18.6	
	Seat depth - third							18.0¢
L-18	Entrance - foot clearance - front	15.4						
L-19	Entrance - foot clearance - rear		10.9		11.2			13.2
Lc-1	Rear compartment length at floor	35.1*						
Lc-2	Rear compartment length at belt	36.2*						
Lc-3	Trunk length - front	18.5		23.2	18.5	24.0		
Lc-4	Trunk length - rear	40.0						
Lc-5	Trunk length - overall	58.5	63.2	58.5	64.0			
Lc-6	Load length - ℄ floor - front seat to tailgate - closed						94.8	
Lc-7	Load length - ℄ floor - rear seat to tailgate - closed						60.0	
Lc-8	Load length - ℄ floor - front seat to tailgate - open						120.1	
Lc-9	Load length - ℄ floor - rear seat to tailgate - open						85.3	
Lc-10	Load length at belt - front seat to tailgate - closed						84.2	
Lc-11	Load length at belt - rear seat to tailgate - closed						48.2	
Lc-12	Load length at roof - front seat to back window						78.1	
Lc-13	Clearance - rear seat to third seat							9.0¢
	INTERIOR WIDTHS							
W-1	Hat room - front	57.3			57.5		57.4	
W-2	Hat room - rear	56.8		55.5	57.3	52.8	57.2	
	Hat room - third							54.4¢
W-3	Shoulder room - front	60.5						
W-4	Shoulder room - rear	59.7		58.8		51.3	59.2	
	Shoulder room - third							57.5¢
W-5	Hip room - front	66.1			66.3		66.1	
W-6	Hip room - rear	65.5		57.0	66.2	52.7	66.0	
	Hip room - third							46.5¢
Wc-1	Rear compartment width at floor	67.6*						
Wc-2	Rear compartment width at belt	60.2*						
Wc-3	Width between trunk hinge boxes	39.5						
Wc-4	Trunk maximum opening width	52.0						
Wc-5	Spare tire to opposite wheel housing	43.1						
Wc-6	Trunk maximum width at floor	61.0						
Wc-7	Minimum width between wheel houses	46.0					46.4	
Wc-8	Tailgate opening width at floor						47.6	
Wc-9	Tailgate opening width at belt						46.0	
Wc-10	Rear window opening width						44.6	
	INTERIOR HEIGHTS							
H-1	Head room - front	36.1		33.3	33.7	34.0	35.8	
H-2	Head room - rear	34.3		34.2	34.5	34.3	36.9	
	Head room - third							34.0¢
H-3	Chair height - front	9.2					9.3	
H-8	Chair height - rear	13.8		12.0	11.5	12.0	12.2	
	Chair height - third							16.0¢
H-11	Entrance room - front	29.3		28.8	28.6	28.4	29.2	
H-12	Entrance room - rear		28.0		29.0			29.5
H-13	Steering wheel clearance	5.2						
Hc-1	Rear compartment - maximum height	37.4*						
Hc-2	Trunk maximum height	20.0						
Hc-3	Trunk floor kickup height	7.4						
Hc-4	Trunk sill to floor	12.5						
Hc-5	Trunk maximum opening height	33.6		35.4	33.6			
Hc-6	Load height - maximum						32.1	
Hc-7	Rear opening height						26.7	
Hc-8	Front seat back to load floor						13.6	
Hc-9	Rear seat back to load floor						13.7	
Hc-10	Third seat back to load floor							15.8¢
Hc-11	Sill height third seat							13.0¢

* - Model 1221 utility sedan only. ¢ - Model 1645 9 passenger station wagon only.

• Revised 3-23-59 10-15-58

INTERIOR DIMENSIONS AND PLATFORM HEIGHTS

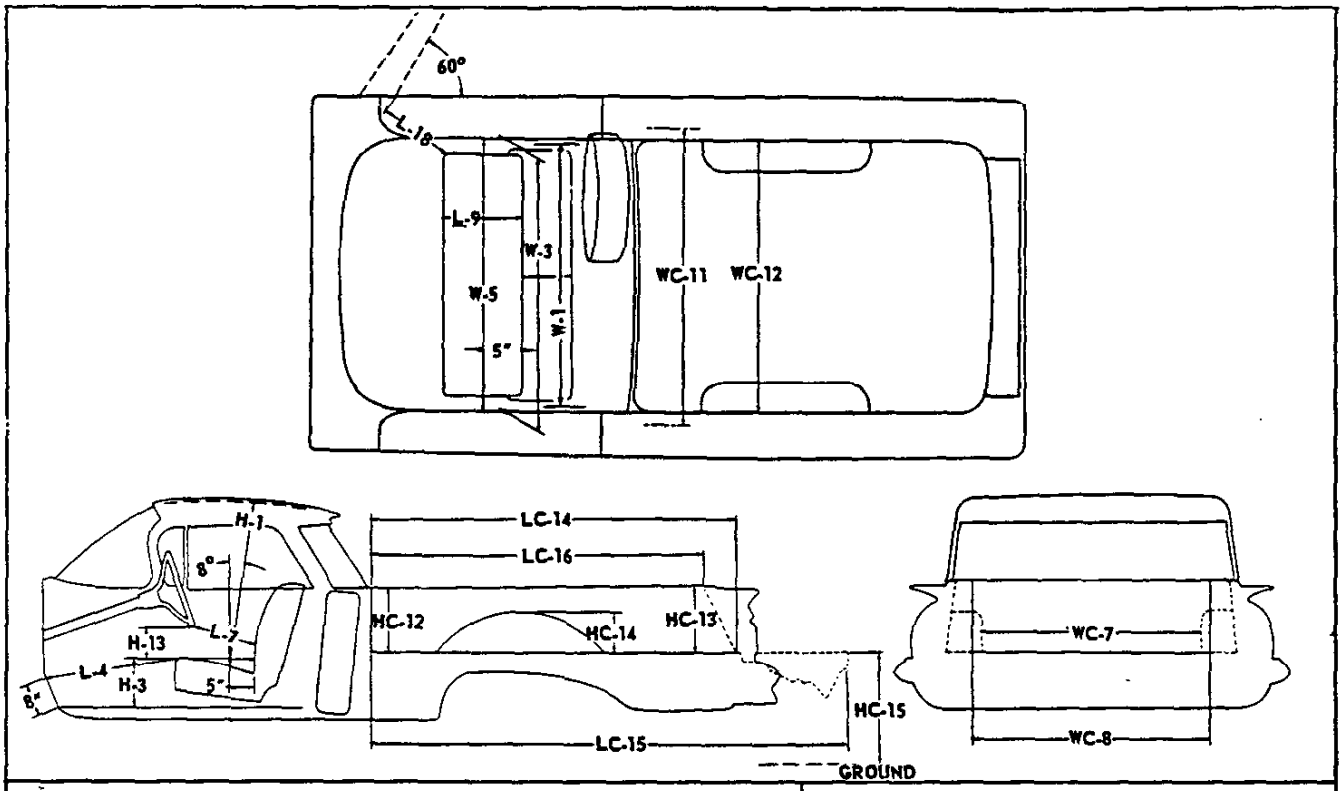


INTERIOR LENGTHS		MODEL
Dim.	Description	1270
L-4	Legroom	45.1
L-7	Steering wheel clearance to seat back	14.6
L-9	Seat depth	17.1
L-18	Entrance-foot clearance	16.7
Lc-6	Load length-front seat to lift gate closed	93.8
Lc-10	Load length at belt	84.2

INTERIOR WIDTHS		
Wc-7	Minimum width between wheelhouses	46.5
Wc-8	Liftgate opening at floor	47.6
Wc-11	Load width at floor	64.3
Wc-12	Load width at belt	60.7
Wc-13	Seat width	20.3
Wc-14	Seat clearance	6.0

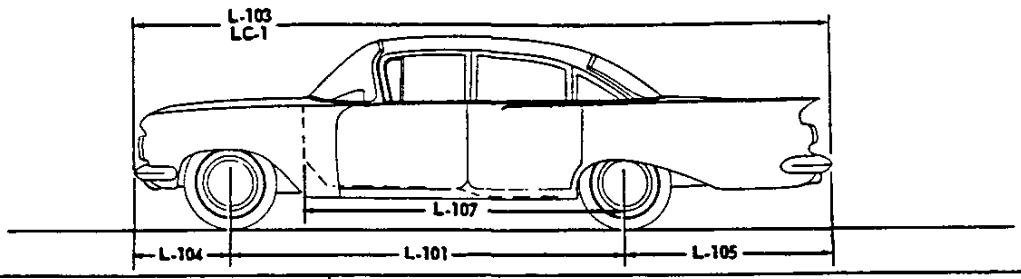
INTERIOR HEIGHTS			
H-1	Headroom		35.7
H-3	Chair height		9.1
H-13	Steering wheel clearance		5.2
Hc-6	Load height-maximum	Flush floor	32.2
		Depressed floor	40.2
Hc-7	Rear opening height		25.9
Hc-8	Front seat back to load floor		14.6
Hc-14	Wheelhouse height		10.7
Hc-15	Platform Height	@ design with 8.00-14-4 tires	25.8
		@ design with 8.50-14-4 tires	26.1
		@ curb with 8.00-14-4 tires	27.0
		@ curb with 8.50-14-4 tires	27.3

INTERIOR DIMENSIONS AND PLATFORM HEIGHTS

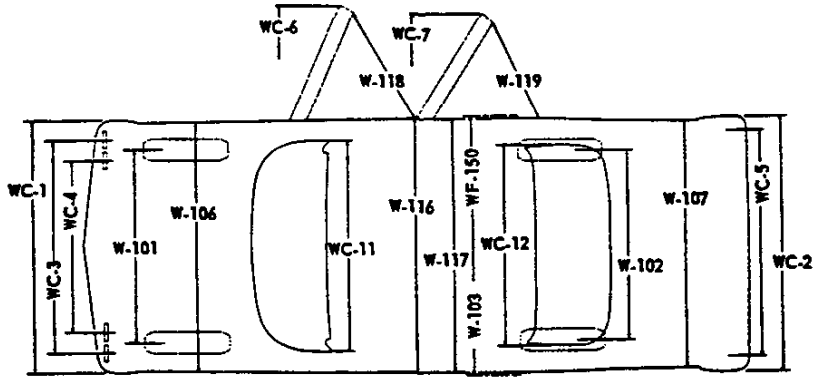


INTERIOR LENGTHS		MODEL
Dim.	Description	1280
L-4	Leg room	45.0
L-7	Steering wheel clearance to seat back	14.2
L-9	Seat depth	19.0
L-18	Entrance - foot clearance	15.4
Lc-14	Box length at floor - tailgate closed	76.2
Lc-15	Box length at floor - tailgate open	96.8
Lc-16	Box length at belt	70.6
	INTERIOR WIDTHS	
W-1	Hat room	57.3
W-3	Shoulder room	60.5
W-5	Hip room	66.1
Wc-7	Minimum width between wheelhouses	46.5
Wc-8	Tailgate opening at floor	47.6
Wc-11	Box width at floor	64.3
Wc-12	Box width at belt	60.7
	INTERIOR HEIGHTS	
H-1	Headroom	36.1
H-3	Chair height	9.2
H-13	Steering wheel clearance	5.2
Hc-12	Box height - front	12.8
Hc-13	Box height - rear	13.3
Hc-14	Wheelhouse height	10.7
Hc-15	Platform Height @ Design with 8.00-14-4 tires	25.8
	Platform Height @ Design with 8.50-14-4 tires	26.1
	Platform Height @ Curb with 8.00-14-4 tires	27.0
	Platform Height @ Curb with 8.50-14-4 tires	27.3

EXTERIOR DIMENSIONS

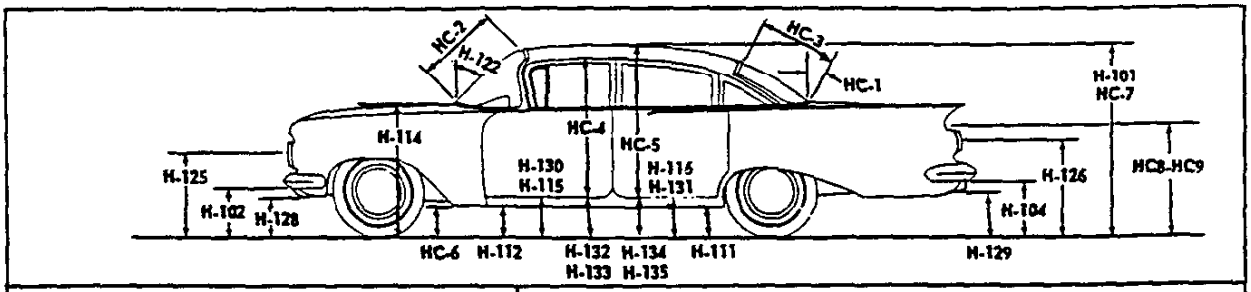


EXTERIOR LENGTHS		MODELS								
Dim.	Description	1211 1221 1611	1219 1619 1819	1837	1639 1839	1867	1215	1235 1635 1645 1835	1270	1280
L-101	Wheelbase	119.0								
L-103	Overall length-bumper to bumper	210.9								
L-104	Overhang - front	32.6								
L-105	Overhang - rear	59.3								
L-107	Front of dash to ℄ of rear wheels	100.6								
Lc-1	Overall length less bumpers	195.2								

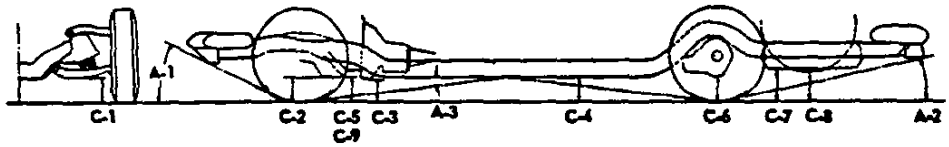


EXTERIOR WIDTHS		MODELS								
Dim.	Description	1211 1221 1611	1219 1619 1819	1837	1639 1839	1867	1215	1235 1635 1645 1835	1270	1280
W-101	Tread-front	60.3								
W-102	Tread-rear	59.3								
W-103	Overall width (maximum)	79.9								
W-106	Front fender width at ℄ of wheel	78.9								
W-107	Rear fender width at ℄ of wheel	78.4								
W-116	Maximum overall width of body	78.5								
W-117	Maximum body width at center pillar	79.1								
W-118	Door swing out distance - front	45.2	35.8	35.8	35.8	35.8	45.2	35.8	45.2	45.2
W-119	Door swing out distance - rear		28.9		28.9			28.9		
Wf-150	Maximum overall width with mouldings	79.7								
Wc-1	Front bumper width	79.9								
Wc-2	Rear bumper width	79.9								
Wc-3	Outer headlight centers width	70.0								
Wc-4	Inner headlight centers width	57.4								
Wc-5	Tail light centers width	59.8								
Wc-6	Overall width, front doors open	161.2	145.9	161.2	145.9	161.2	161.2	145.9	161.2	161.2
Wc-7	Overall width, rear doors open		134.4		134.4			134.4		
Wc-8	Opening width at beltline - frt. door	32.4	23.4	32.4	23.4	32.4	32.4	23.4	32.4	32.4
Wc-9	Opening width below beltline - frt. door	46.2	34.9	46.2	34.9	46.2	46.2	34.9	46.2	46.2
Wc-10	Opening width below beltline - rr. door		28.1		28.1			28.1		
Wc-11	Windshield DLO width	64.6								
Wc-12	Rear window DLO width	61.2					45.4		47.0	62.5

EXTERIOR DIMENSIONS



EXTERIOR HEIGHTS		MODELS								
		1211 1221 1611	1219 1619 1819	1837	1639 1839	1867	1215	1235 1635 1645 1835	1270	1280
Dim.	Description									
H-101	Overall height - loaded	56.0		54.0		56.0	56.3		56.3	
H-102	Front bumper bottom to ground	10.9				11.2	11.9		11.4	
H-104	Rear bumper bottom to ground	11.4				11.7	12.4		13.6	
H-111	Bottom of body to ground	8.0							10.3	
H-112	Rocker panel to ground - front	8.5							10.8	
H-114	Hood at rear to ground	38.6								
H-115	Step height - front door - loaded	13.1							13.2	
H-116	Step height - rear door - loaded		12.8		12.8			12.8		
H-122	Windshield slope angle	48.8°		55.3°			48.8°			
H-125	Headlight centerline to ground	24.1								
H-126	Taillight centerline to ground	25.7								
H-128	Bottom of front bumper guard to ground	10.8								
H-129	Bottom of rear bumper guard to ground	11.4								
H-130	Step height - front door - unloaded	14.7				14.9	15.5		14.9	
H-131	Step height - rear door - unloaded		15.1		14.9			15.7		
H-132	Bottom of front door to ground - open	11.7						11.9	12.1	
H-133	Bottom of front door to ground - closed	10.6						10.8	10.6	
H-134	Bottom of rear door to ground - open		11.5		11.5			11.7		
H-135	Bottom of rear door to ground - closed		10.4		10.4			10.4		
Hc-1	Rear window slope angle	59°		62°	60°	59.8°	25°0'		47°	
Hc-2	Windshield DLO slant height	26.6								
Hc-3	Rear window DLO slant height	25.7		29.0	17.0	16.8	14.0		13.0	15.5
Hc-4	Front door opening height	37.6		36.5	36.3	35.9	37.7	37.6	37.6	
Hc-5	Rear door opening height		37.3		36.2			37.3		
Hc-6	Bottom of front fender at rr. to ground	9.5								
Hc-7	Overall height - unloaded	58.1		56.1		58.1	58.4		58.4	
Hc-8	Trunk sill to ground-loaded	28.4								
Hc-9	Tailgate to ground-open-loaded	24.8								



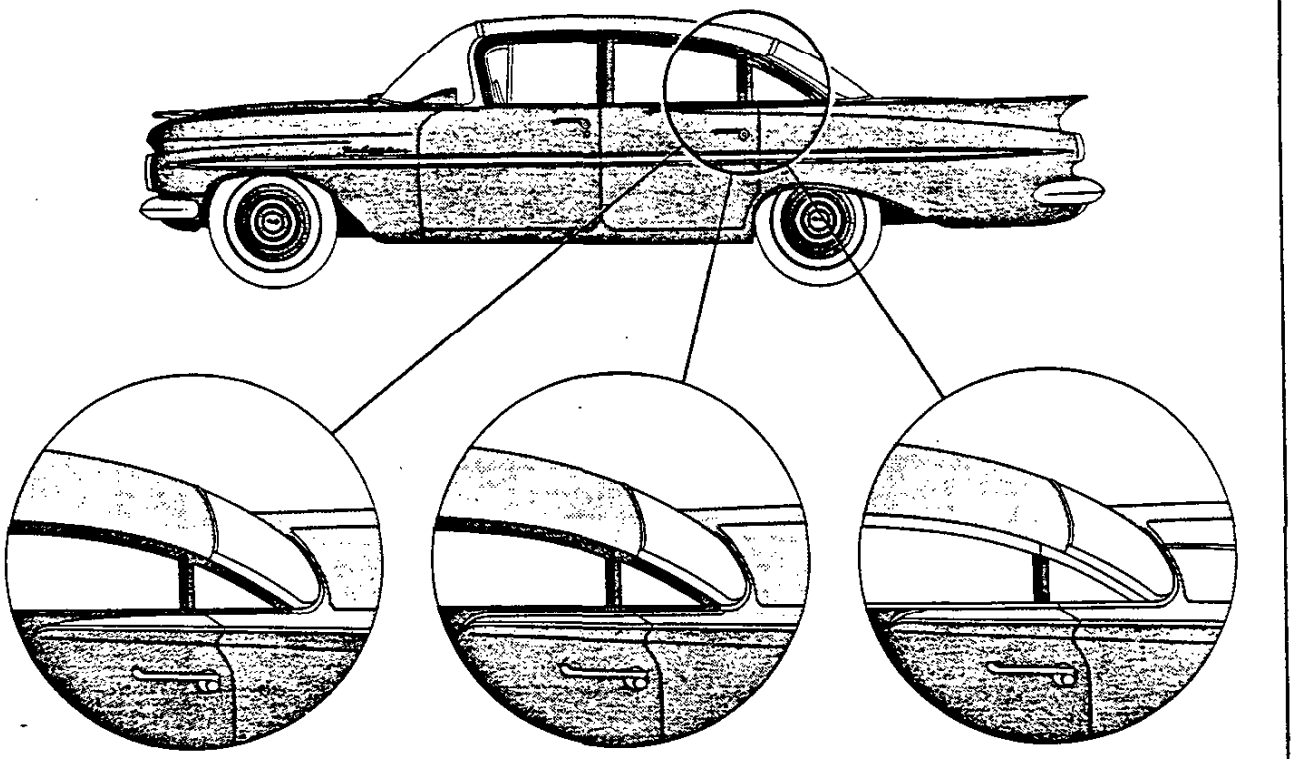
GROUND CLEARANCES		MODELS								
		1211 1221 1611	1219 1619 1819	1837	1639 1839	1867	1215	1235 1635 1645 1835	1270	1280
Dim.	Description									
A-1	Angle of approach	25°45'								
A-2	Angle of departure	12°								
A-3	Ramp breakover angle	12.5°								
C-1	Front suspension to ground	6.9								
C-2	Oil pan to ground	6.6								
C-3	Flywheel housing to ground	6.5								
C-4	Frame to ground	6.4								
C-5	Exhaust system to ground	6.0							6.7	
C-6	Rear axle to ground	7.3								
C-7	Fuel tank to ground	7.8					12.3*			
C-8	Tire well to ground	8.3				8.4	8.2			
C-9	Minimum ground clearance	6.0†							6.7	

† At muffler

*7.6 on 1645

EXTERIOR PAINT

TWO-TONE PAINT AREAS



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 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 200°F.
8. Undercoating . . . An asphaltous 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.

9a. Polishing . . . Machine buffing with special pastes to provide both a high luster and a glassy smooth surface.

9b. 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
BISCAYNE SERIES, EL CAMINO, SEDAN DELIVERY, AND BROOKWOOD STATION WAGONS

EXTERIOR			INTERIOR	
SOLID COLORS	TWO-TONE COLORS **		FABRICS	PAINT
	Roof & Upper Deck (or Tailgate)	Lower Body & Wheels		
Tuxedo Black ¢	Snowcrest White	Tuxedo Black	Light and Medium Gray	Medium Gray
Crown Sapphire	Snowcrest White	Crown Sapphire		
Gothic Gold ¢	Satin Beige	Gothic Gold		
Roman Red ¢	Snowcrest White	Roman Red		
Snowcrest White ¢	Snowcrest White	Grecian Gray		
Cameo Coral	Satin Beige	Cameo Coral		
Grecian Gray				
Satin Beige				
Highland Green ¢	Snowcrest White	Highland Green	Light and Medium Green *	Medium Green *
Aspen Green ¢	Aspen Green	Classic Cream		
Classic Cream				
Frost Blue ¢	Frost Blue	Harbor Blue	Light and Medium Blue *	Dark Blue *
Harbor Blue	Harbor Blue	Frost Blue		

* - Gray is substituted for models 11-1221, 11-1270

** - Two-Tone not available for models 11-1270

¢ - Only colors available on models 11-1270

EXTERIOR - INTERIOR COLOR COMBINATIONS
BEL AIR SERIES; KINGSWOOD AND PARKWOOD STATION WAGONS

EXTERIOR			INTERIOR	
SOLID COLORS	TWO-TONE COLORS		FABRICS	PAINT
	Roof & Upper Deck (or Tailgate)	Lower Body & Wheels		
Tuxedo Black	Snowcrest White	Tuxedo Black	Light and Medium Gray	Medium Gray
Roman Red	Snowcrest White	Roman Red		
Snowcrest White	Snowcrest White	Grecian Gray		
Cameo Coral	Satin Beige	Cameo Coral		
Grecian Gray				
Highland Green	Snowcrest White	Highland Green	Light and Medium Green	Medium Green
Aspen Green	Aspen Green	Classic Cream		
Classic Cream				
Frost Blue	Frost Blue	Harbor Blue	Light and Medium Blue	Dark Blue
Harbor Blue	Harbor Blue	Frost Blue		
Crown Sapphire	Snowcrest White	Crown Sapphire	Light and Medium Turquoise	Medium Turquoise
Gothic Gold	Satin Beige	Gothic Gold	Light and Medium Copper	Medium Copper
Satin Beige				

EXTERIOR - INTERIOR COLOR COMBINATIONS
IMPALA SERIES AND NOMAD STATION WAGON

EXTERIOR			INTERIOR	
SOLID COLORS	TWO-TONE COLORS *		FABRICS	PAINT
	Roof & Upper Deck (or Tailgate)	Lower Body & Wheels		
Tuxedo Black	Snowcrest White	Tuxedo Black	Light and Medium Gray	Medium Gray **
Roman Red	Snowcrest White	Roman Red		
Snowcrest White	Snowcrest White	Grecian Gray		
Cameo Coral	Satin Beige	Cameo Coral		
Grecian Gray				
Highland Green	Snowcrest White	Highland Green	Light and Medium Green	Medium Green **
Aspen Green	Aspen Green	Classic Cream		
Classic Cream				
Frost Blue	Frost Blue	Harbor Blue	Light and Medium Blue	Dark Blue **
Harbor Blue	Harbor Blue	Frost Blue		
Crown Sapphire	Snowcrest White	Crown Sapphire	Light and Medium Turquoise	Medium Turquoise **
Snowcrest White				
Gothic Gold	Satin Beige	Gothic Gold	Light and Medium Copper	Medium Copper **
Satin Beige				
Tuxedo Black	Snowcrest White	Tuxedo Black	Red ¢	Red ¢
Roman Red	Snowcrest White	Roman Red		
Snowcrest White	Snowcrest White	Grecian Gray		
Grecian Gray				

* - Not available for Convertible.
** - Upper and lower portions of steering wheel painted a light tone.
¢ - Not available for 4-Door Sedan or Nomad Station Wagon.

EXTERIOR - INTERIOR COLOR COMBINATIONS
IMPALA SERIES AND NOMAD STATION WAGON

EXTERIOR			INTERIOR	
SOLID COLORS	TWO-TONE COLORS *		FABRICS	PAINT
	Roof & Upper Deck (or Tailgate)	Lower Body & Wheels		
Tuxedo Black	Snowcrest White	Tuxedo Black	Light and Medium Gray	Medium Gray **
Roman Red	Snowcrest White	Roman Red		
Snowcrest White	Snowcrest White	Grecian Gray		
Cameo Coral	Satin Beige	Cameo Coral		
Grecian Gray				
Highland Green	Snowcrest White	Highland Green	Light and Medium Green	Medium Green **
Aspen Green	Aspen Green	Classic Cream		
Classic Cream				
Frost Blue	Frost Blue	Harbor Blue	Light and Medium Blue	Dark Blue **
Harbor Blue	Harbor Blue	Frost Blue		
Crown Sapphire	Snowcrest White	Crown Sapphire	Light and Medium Turquoise	Medium Turquoise **
Snowcrest White				
Gothic Gold	Satin Beige	Gothic Gold	Light and Medium Copper	Medium Copper **
Satin Beige				
Tuxedo Black	Snowcrest White	Tuxedo Black	Red ¢	Red ¢
Roman Red	Snowcrest White	Roman Red		
Snowcrest White	Snowcrest White	Grecian Gray		
Grecian Gray				

* - Not available for Convertible.
** - Upper and lower portions of steering wheel painted a light tone.
¢ - Not available for 4-Door Sedan or Nomad Station Wagon.

IMPALA CONVERTIBLE TOP COLORS

EXTERIOR COLOR	TOP COLOR			
	Ivory	Black	Green	Blue
Tuxedo Black	X	X		
Aspen Green	X	X	X	
Highland Green	X		X	
Crown Sapphire	X	X		
Frost Blue	X	X		X
Harbor Blue	X			X
Gothic Gold	X	X		
Roman Red	X	X		
Snowcrest White	X	X		
Grecian Gray	X	X		
Classic Cream	X	X	X	
Cameo Coral	X	X		
Satin Beige	X	X		

INTERIOR TRIM DISTRIBUTION
BISCAYNE SEDANS & BROOKWOOD STATION WAGONS

AREA			MATERIAL	INTERIOR TRIM COLOR TONE
Seats	Cushion and Backrest		Pattern Cloth*	Medium
	Cushion and Backrest Bolster		Leather Grain Vinyl	Light
	Cushion and Backrest Facing			
	Front Seat Back	Upper		
		Lower	Leather Grain Vinyl	Medium
		Lower Cross Bar		
Pass. Area Side-walls	Upper Area and Dividing Welt		Leather Grain Vinyl	Light
	Lower Area and Scuff Pad		Leather Grain Vinyl	Medium
Sunshade			Embossed Board	Light
Sunshade Binding			Leather Grain Vinyl	
Headlining			Cloth*	
Cowl Side Kick Panel			Embossed Board	Medium
Floor Covering			Vinyl Covered Rubber	Medium**
Utility Area¢	Upper Sidewall		Leather Grain Vinyl	Light
	Lower Sidewall		Embossed Board	Medium
	Rear Division Wall		Panel Board, Painted	
	Wheelhouse		Paint	
	Utility Floor Covering		Rubber	Black
Load Area$	Sidewall		Leather Grain Vinyl	Medium
	Wheelhouse Cover Panel			
	Load Floor Covering		Vinyl Type Linoleum	

* - Pattern Vinyl on Station Wagons
** - Medium color spattered over black
¢ - Utility Sedan only
$ - Station Wagons only

INTERIOR TRIM DISTRIBUTION
BEL AIR SERIES, PARKWOOD AND KINGSWOOD STATION WAGONS

AREA			MATERIAL	INTERIOR TRIM COLOR TONE
Seats	Cushion and Backrest		Pattern Cloth*	Medium
	Cushion and Backrest Bolster		Leather Grain Vinyl	
	Bolster Insert		Leather Grain Vinyl	Light
	Cushion and Backrest Facing		Leather Grain Vinyl	Medium
	Front Seat Back	Upper		
		Lower		
		Lower Cross Bar		
Pass. Area Side-walls	Upper Area			
	Lower Area and Scuff Pad			
	Dividing Welt		Leather Grain Vinyl	Light
Arm-rest	Upper Area		Leather Grain Vinyl	Medium
	Base		Plastic	
Sunshade			Cloth**	Light
Sunshade Binding			Leather Grain Vinyl	
Headlining			Cloth**	
Cowl Side Kick Panel			Embossed Board	Medium
Floor Covering			Carpet¢	
Load Area$	Sidewall		Leather Grain Vinyl	
	Wheelhouse Cover Panel			
	Load Floor Covering		Vinyl Type Linoleum	

* - Plastic backed pattern cloth on Station Wagons
** - Pattern vinyl on Station Wagons
¢ - With medium color rubber inserts, front and rear
$ - Station Wagons only

INTERIOR TRIM DISTRIBUTION
IMPALA SERIES AND NOMAD STATION WAGON

AREA			MATERIAL	INTERIOR TRIM COLOR TONE
Seats	Cushion and Backrest		Pattern Cloth*	Medium
	Backrest Bolster Insert		Leather Grain Vinyl	
	Dividing Welts		Vinyl	Bright
	Cushion and Backrest Bolster		Leather Grain Vinyl	Light**
	Cushion and Backrest Facing			
	Front Seat Back	Upper Area	Leather Grain Vinyl	Medium
		Lower Area	Leather Grain Vinyl	Light**
		Lower Cross Bar	Leather Grain Vinyl	Medium
	Front Seat End Panels***		Aluminum	Bright
Pass. Area Side-walls	Upper Area		Leather Grain Vinyl	Medium
	Dividing Welts		Vinyl	Bright
	Lower Area and Scuff Pad		Leather Grain Vinyl	Light**
	Sidewall Insert		Leather Grain Vinyl	Medium
Armrest			Leather Grain Vinyl¢	
Sunshade			Pattern Vinyl¢¢	Light¢¢¢
Sunshade Binding			Leather Grain Vinyl	
Headlining$			Pattern Vinyl¢¢	
Cowl Side Kick Panel			Embossed Board	Medium
Floor Covering			Carpet$$	
Load Area $$$	Sidewall		Leather Grain Vinyl	
	Wheelhouse Cover Panel			
	Load Floor Covering		Vinyl Type Linoleum	

* - Pattern vinyl on Convertible
** - Medium tone on red trim
*** - Not used on 4-Door Sedan and Station Wagon
¢ - Plastic base on 4-Door Sedan and Station Wagon
¢¢ - Cloth on 4-Door Sedan
¢¢¢ - Light gray on red trim
$ - Not used on Convertible
$$ - Carpet texture vinyl covered rubber on Convertible
$$$ - Station Wagon only

INTERIOR TRIM DISTRIBUTION
BISCAYNE SEDAN DELIVERY

AREA		MATERIAL	INTERIOR TRIM COLOR TONE
Seats	Cushion and Backrest	Leather Grain Vinyl	Medium
	Cushion and Backrest Facing	Leather Grain Vinyl	Light
	Back of Backrest	Leather Grain Vinyl	Medium
Side-walls	Upper Area and Dividing Welt	Leather Grain Vinyl	Light
	Lower Area and Scuff Pad	Leather Grain Vinyl	Medium
Sunshade		Embossed Board	Light
Sunshade Binding		Leather Grain Vinyl	
Headlining		Pattern Vinyl	
Cowl Side Kick Panel		Embossed Board	Medium
Floor Covering (front)		Vinyl Covered Rubber*	
Load Area	Side Panels	Paint	
	Wheelhouses		
	Rear Door		
	Load Platform		

* - Medium color spattered over black

INTERIOR TRIM DISTRIBUTION
EL CAMINO SEDAN PICKUP

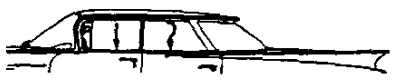
AREA			MATERIAL	INTERIOR TRIM COLOR TONE
Seats	Cushion and Backrest		Pattern Vinyl	Medium
	Cushion and Backrest Bolster		Leather Grain Vinyl	Light
	Cushion and Backrest Facing			
	Front Seat Back	Upper		
		Lower	Leather Grain Vinyl	Medium
		Lower Cross Bar		
Side-walls	Upper Area and Dividing Welt		Leather Grain Vinyl	Light
	Lower Area and Scuff pad		Leather Grain Vinyl	Medium
Sunshade			Embossed Board	Light
Sunshade Binding			Leather Grain Vinyl	
Headlining			Pattern Vinyl	
Cowl Side Kick Panel			Embossed Board	Medium
Storage Compartment (behind seat)				
Floor Covering			Vinyl Covered Rubber*	

* - Medium color spattered over black

BODY GLASS

BODY GLASS ACTION

4-Door Sedan (19)



4-Door Sport Sedan (39)

2-Door Sedan (11)

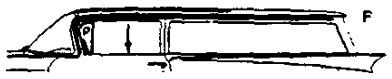
2-Door Utility Sedan (21)

2-Door Sport Coupe (37)

2-Door Convertible (67)

2-Door Station Wagon (15)

4-Door Station Wagon
6-pass.(35), 9 pass.(45)



Sedan Delivery (70)

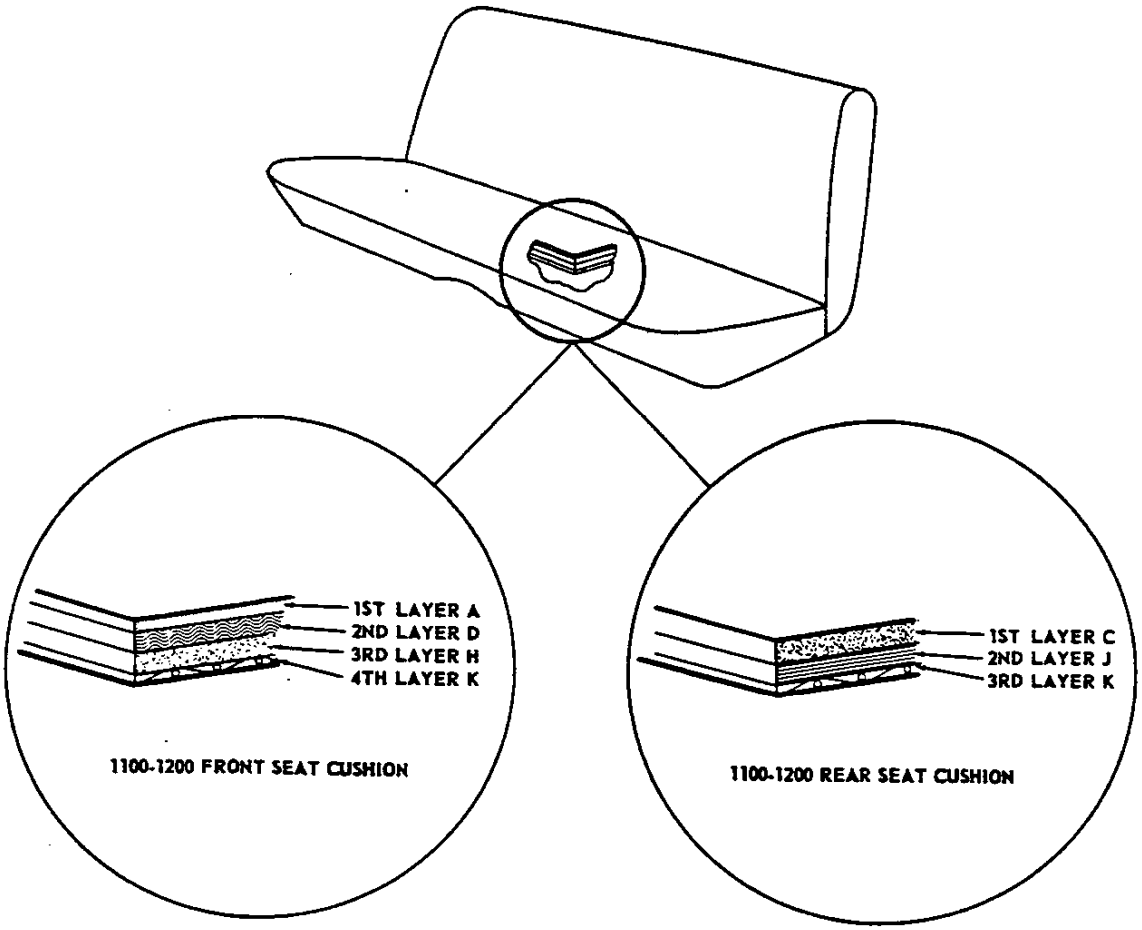
Sedan Pickup (80)

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

BODY GLASS TYPE AND VISIBILITY AREA

Location		19	39	11	37	21	67	70	80	15	35	45
Windshield		Laminated Safety Plate, one piece, compound curved										
		1740.1	1711.8	1740.1	1711.8	1740.1	1711.8	1740.1				
Front Door	Ventipane	Laminated Safety Plate										
		94.2	75.4	94.2	75.4	94.2	75.4	94.2				
	Window	Laminated Safety Plate										
		524.1	463.1	726.6	679.9	726.6	646.6	726.6	597.0	726.6	524.1	
Rear Door Window		LSP									LSP	
		665.8	589.2								722.0	
Rear Quarter	Window			LSP		SSP	LSP			LSP		
				623.1	476.2	608.2	288.0			543.6		
	Fixed Vent	SSP								Safety Solid Plate		
		109.2								159.6	181.4	
	Rear Side									Safety Solid Plate, crvd		
										1076.7		
Back Window		Safety Solid Plate, curved					Plastic	Safety Solid Plate, curved				
		1553.7	1309.1	1553.7	1726.8	1553.7	963.3	579.2	1034.5	623.2		
Total V.A.(sq.in.)		4687.1	4148.6	4737.7	4670.1	4722.8	3685.1	3140.1	3465.8	4964.0	4961.7	

SEAT PADDING CHART



FOR MATERIAL APPLICATION TO OTHER MODELS REFER TO CHART BELOW

Material Application	1100-1200							1500-1600					1700-1800				
	11	15	19	21	35	70	80	11	19	35	39	45	19	35	37	39	67
Front Seat Cushion	A-D-H-K							A-E-H-K					A-B G-K	A-E H-K	A-B-G-K		
Rear Seat Cushion	C-J-K							A-D-H-L			A-D H-L		A-F M		A-F-K		
Second Seat Cushion					C-J K					A-D H-L		A-D H-L		A-F M			
Third Seat Cushion												*					

* - 1st layer - 1-3/4 oz. cotton topper; 2nd layer - 3" to 1" molded polyurethane pad with integral burlap insulator as 3rd layer.

Item	Material Type
A	Cotton Topper - 3 oz
B	Foam Rubber - 1-3/4"
C	Cotton Pad - 6 oz
D	Polyurethane - 3/4"
E	Polyurethane - 1"
F	Polyurethane - 1-3/4"
G	Cotton Base Pad - 3 oz
H	Cotton Base Pad - 5 oz
J	Jute Pad
K	Wire - Burlap Insulator
L	Burlap - Plastic Insulator
M	Burlap (Composite) Insulator

AMA Specifications – Passenger Car

repared and distributed by American automobile manufacturers, using uniform questionnaire form
ed by car manufacturers under auspices of the Automobile Manufacturers Association.

EVROLET **MODEL YEAR** 1959 **DATE: ISSUED** 7-15-58 **REVISED** 10-16-58

hevrolet Motor Division, General Motors Corporation

MODEL NAME	SYMBOL	MODEL NAME	SYMBOL
Biscayne	1100	Station Wagons	1100(Brookwood)
Bel Air	1500		1500(Parkwood,Kingswood
Impala	1700		1700(Nomad)

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NOTES:

1. The specifications set forth herein are those in effect at the date of compilation and are subject to change without notice.

UNLESS OTHERWISE INDICATED:

2. All specifications are standard for the models under which they are listed.
3. Specifications apply basically to 4-door sedan or equivalent. Body dimensions shown on pages 19-24 include other body models available.
4. All dimensions are nominal engineering dimensions.

GENERAL SPECIFICATIONS

DEL		Additional Information Page No.:	1100-1500-1700 Series (6 cyl.)
elbase (L-101)		22	119.0
Tread	Front (W-101)	23	60.3
	Rear (W-102)	23	59.3
Maximum Overall Dimensions	Length (L-103)	22	210.9
	Width (W-103)	23	79.9
	Height (H-101)	21	56.0
Transmission— (Specify trade name - opt., not available)	Manual	12	3-speed
	Overdrive	13	Optional
	Automatic	13	Powerglide (optional)
Axle ratio	Manual	14	3.55:1
	Overdrive	14	4.11:1
	Automatic	14	3.36:1
Tire size		15	7.50 x 14-4 ply (a)
Engine	Type, no. cyl., valve arr.	2	In Line, 6, OHV
	Fuel system (Carb. or inj.)	6	Carburetor
	Bore and stroke	2	3.56 x 3.94
	Piston displ., cu. in.	2	235.5
	Std. compression ratio	2	8.25:1
	Max. bhp at engine rpm	2	135@ 4000
	Max. torque at rpm	2	217@ 2000 - 2400

) 8.00 x 14-4 ply on convertible, station wagons, sedan delivery, sedan pickup.

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 1-30-59

MODEL 1100-1500-1700 Series (6 Cyl.)

ENGINE—GENERAL

Type, no. cyls., valve arr.		In Line, 6, OHV
Bore and stroke		3.56 x 3.94
Piston displacement, cu. in.		235.5
Bore spacing (C/L to C/L)		4.375" between 2-3 and 4-5, remainder 4.187"
No. system (front to rear)	L. Bank	In Line, 1-2-3-4-5-6
	R. Bank	
Firing order		1-5-3-6-2-4
Compres. ratio (nominal)	Standard	8.25:1
	Optional	None
Cylinder Head Material	Standard	Cast alloy iron
	Optional	None
Cylinder Sleeve - Wet, dry, none		None
Number of mounting points	Front	Two
	Rear	One
Taxable horsepower $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{2.5}$		30.4
Published max. bhp at engine RPM*	Standard	135@ 4000
	Optional	None
Published max. torque* (lb. ft. @ RPM)	Standard	217@ 2000 - 2400
	Optional	None
Recommended fuel regular - premium	Standard	Regular
	Optional	N.A.
Recommended idle speed (neutral)		3-speed, 475 RPM in Neutral, Automatic 450 RPM in Drive

ENGINE—PISTONS

Material	Cast alloy aluminum
Description and finish	Flat head, controlled expansion
Weight (piston only) oz.	18.88

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

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET **MODEL YEAR** 1959 **DATE: ISSUED** 7-15-58 **REVISED** 10-16-58

MODEL 1100-1500-1700 Series (6 Cyl.)

ENGINE PISTONS (Cont.)

Clearance (limits)	Top land		.033-.042
	Skirt	Top	.0006-.0010 (a)
		Bottom	N.A.
Ring groove depth	No. 1 ring		.199-.205
	No. 2 ring		.199-.205
	No. 3 ring		.199-.205
	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, wear resistant
	Width	.0930-.0935
	Gap	.007-.017
Oil	Description - material, type, coating, etc.	Rails, steel; Spacer, stainless steel upper and lower rails chrome plated
	Width	.221-.231
	Gap	.015-.055
Expanders		In oil ring assembly

ENGINE—PISTON PINS

Material			Chromium steel
Length			3.168-3.198
Diameter			.8660-.8665
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-.078

ENGINE—CONNECTING RODS

Material		Forged steel
Weight (oz.)		28.03
Length (center to center)		6.8125
Bearing	Material & Type	Steel backed babbitt
	Overall length	1.008
	Clearance (limits)	.0007-.0027
	End play	.005-.010

(a) Measured 1.29" from top of piston

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MODEL 1100-1500-1700 Series (6 Cyl.)

ENGINE—CRANKSHAFT

Material			Forged steel
Vibration damper type			Oscillating (rubber floating)
End thrust taken by bearing (No.)			3
Crankshaft end play			.0035-.0095
Main bearing	Material & type		Steel backed babbitt, removable
	Clearance		#1&2-.0008-.0024. #3&4-.0010-.0026
	Journal dia. and bearing overall length	No. 1	2.6840 x 1.063
		No. 2	2.7150 x .907
		No. 3	2.7460 x .979
		No. 4	2.7770 x 1.189
		No. 5	None
		No. 6	None
		No. 7	None
	Dir. & amt. cyl. offset		None
Crankpin journal diameter			2.311-2.312

ENGINE—CAMSHAFT

Location			Above and to right of crankshaft
Material			Cast alloy iron
Bearings	Material		Steel backed babbitt
	Number		4
Type of drive	Gear or chain		Gear
	Crankshaft gear or sprocket material		Steel
	Camshaft gear or sprocket material		Bakelite and fabric composition with steel hub
	Timing chain	No. of links	None
		Width	None
		Pitch	None

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard
Special provision for valve rotation (intake, exhaust)		None
Rocker ratio		1.477:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero
	Exhaust	Zero
Timing marks on fly-wheel, damper, other		Flywheel

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET **MODEL YEAR** 1959 **DATE: ISSUED** 7-15-58 **REVISED** 10-16-58

MODEL 1100-1500-1700 Series (6 Cyl.)

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	16°
		Closes (°ABC)	48°
		Duration - deg.	244°
	Exhaust	Opens (°BBC)	46°30'
		Closes (°ATC)	17°30'
		Duration - deg.	244°
	Valve opening overlap		33°30'
Intake	Material		High Alloy steel (8645)
	Overall length		6.376-6.396
	Actual overall head dia.		1.870-1.880
	Angle of seat		31° in head
	Seat insert material		None
	Stem diameter		.3410-.3417
	Stem to guide clearance		.0010-.0027
	Lift		.3275
	Outer spring press. and length	Valve closed (lb. @ in.)	62-68@ 1.858
		Valve open (lb. @ in.)	158-168@ 1.528
	Inner spring press. and length	Valve closed (lb. @ in.)	None
		Valve open (lb. @ in.)	None
Exhaust	Material		High Alloy steel (21-4N)
	Overall length		4.913-4.933
	Actual overall head dia.		1.495-1.505
	Angle of seat		46° in head
	Seat insert material		None
	Stem diameter		.3410-.3417
	Stem to guide clearance		.0010-.0027
	Lift		.3275
	Outer spring press. and length	Valve closed (lb. @ in.)	62-68@ 1.858
		Valve open (lb. @ in.)	158-168@ 1.528
	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

(Continued)

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MODEL 1100-1500-1700 Series (6 Cyl.)

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	35 psi @ 3500
Oil pressure sending unit (elect. or mech.)	Electrical
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, partial, other)	Partial flow (optional)
Filter replacement (element, complete)	Element
Capacity of crankcase, less filter-refill (qt.)	5
Oil grade recommended (SAE viscosity and temperature range)	32°F and above - SAE 20W, SAE 20, SAE 10W-30 0°F and above - SAE 10W, SAE 10W-30 0°F and below - SAE 5W, SAE 5W-20
Engine Service Requirement (MM, MS, etc.)	MS or DG

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Single
Muffler No. & type (reverse flow, straight thru, separate resonator)		Reverse flow
Exhaust pipe dia. (O.D. & wall thickness)	Branch	N.A.
	Main	2.0 x .0625
Tail pipe diameter (O.D. & wall thickness)		1.81 x .0598

ENGINE—FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.			Carburetor
Fuel Tank	Capacity (gals.)		20 (a)
	Filler location		Concealed behind hinged rear license plate (b)
Fuel Pump	Type (elec. or mech.)		Mechanical
	Locations		Lower right front corner of engine
	Pressure range		3.50-4.50 psi
Vacuum booster (std., optional, none)			None
Fuel Filter	Type		Strainer - sintered bronze filter
	Locations		Gas tank - carburetor inlet
Carburetor	Make & Model No.		Rochester Products - 7013003 (c)
	Number & Type		One, single-barrel downdraft
	Barrel size		1.5625
	Choke type		Automatic
	Intake manifold heat control (exhaust or water)		Exhaust
	Air clnr. type	Standard	Oil wetted
		Optional	Oil bath

(a) 17 gallons on 6-pass. Station Wagons and Sedan Delivery, 18 gallons on 9-pass. Station Wagon.

(b) In left rear quarter panel on Station Wagons and Sedan Delivery.

(c) Powerglide transmission - Rochester Products 7013000.

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MODEL 1100-1500-1700 Series (6 Cyl.)

ENGINE—COOLING SYSTEM

Type (pressure system, atmospheric, other)			Pressure system
Radiator cap relief valve pressure			13 psi
Circulation thermostat	Type (choke, bypass)		Choke
	Starts to open at (°F)		167-172°F
Water pump	Type (centrifugal, other)		Centrifugal
	Number of pumps		One
	Drive (V-belt, other)		V-belt
	Bearing type		Permanently lubricated, double row ball
By-pass recirculation type (internal, external)			Internal
Radiator core type (cellular, tube and fin, other)			Tube on center
Cooling system capacity	With heater (qt.)		18*
	Without heater (qt.)		17*
	Opt. equipment-specify (qt.)		None
Water jackets full length of cylinder (yes, no)			Yes
Water all around cylinder (yes, no)			Yes
Radiator hose	Lower	Number and type (molded, straight)	One, molded
		Inside diameter	1.75
	Upper	Number and type (molded, straight)	One, molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	None
		Inside diameter	None
Fan	Number of blades & Spacing		4, staggered
	Diameter		17.62
	Ratio-fan to crankshaft rev.		.949:1
	Fan cutout type		None
	Bearing type		Double row ball
*Drive belts (indicate belt used by letter)	Fan		A
	Generator		A
	Water Pump		A
	Power Steering		B
	Air Conditioning		N.A.

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* Drive Belt Dimensions	A	B
Angle of V	37-44°	37-44°
Nominal length (SAE)	40.50 (a)	44.50 (a)
Width	.380± .005	.380± .005

(a) Pitch length
(*) With 3-speed transmission

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MODEL 1100-1500-1700 Series (6 Cyl.)

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy, 1980458
	Voltage Rtg. & Total Plates		12 volts - 54 plates
	SAE Designation & Amp Hr. Rtg.		2SMR 53W - 53 amp. hr. @ 20 hr. rate
	Location		Rt. Front of engine compartment on radiator baffle
	Terminal grounded		Negative
Generator	Make		Delco-Remy
	Model		1102096
	Type		Two brush, shunt wound
	Ratio—Gen. to Cr/s rev.		2.3:1
	Gen. cut-in—engine rpm		510
Regulator	Make		Delco-Remy
	Model		1119001
	Type		Vibrator
	Cutout relay	Closing voltage @ generator rpm	11.8-13.5@ 1300
		Reverse current to open	N.A.
	Regulated	Voltage	13.8-14.8
		Current	27-33
	Voltage test conditions	Temperature	Operating
		Load	8-10 amps
		Other	None

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy
	Model		1107652
	Rotation (drive end view)		Clockwise
	Engine cranking speed		N.A.
	Test conditions		Engine at operating temperature
	Lock test	Amps	N.A.
		Volts	N.A.
		Torque (lb. ft.)	N.A.
	No load test	Amps	49-76
		Volts	10.6
		RPM (min.)	6200-6900
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		Place shift lever in Neutral & depress clutch. (a) Press accelerator once to floor to set automatic choke, then release. Turn ignition key to extreme right position to start engine.

(a) For Powerglide transmission, place selector lever in "P" (Park) or "N" (Neutral) position.

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MODEL 1100-1500-1700 Series (6 Cyl.)

ELECTRICAL—STARTING SYSTEM (cont.)

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

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco-Remy
	Model		1115120
	Amps	Engine stopped	4.0
		Engine idling	1.8
Distributor	Make		Delco-Remy
	Model		1112403
	Centrifugal adv. in crankshaft degrees @ engine rpm	Start (rpm)	450-750
		Intermediate points deg. @ rpm	10@1400
		Max deg. @ rpm	24-28@3500
	Vacuum adv. in crankshaft degrees @ in. Hg.	Start (in. Hg)	6.0
		Intermediate points, deg.@in.Hg	N.A.
		Max. deg. in. Hg.	15@8.5
	Breaker gap (in.)		.016-.021
	Cam angle (deg.)		28-35
	Breaker arm tension (oz.)		19-23
Timing	Crankshaft deg. @ rpm.		5°BTC @ Idle
	Mark location		Flywheel
	Cylinder numbering system (see page 2)		In line, from front to rear (1-2-3-4-5-6)
	Firing order (see page 2)		1-5-3-6-2-4
Spark Plug	Make and model		AC-44
	Thread (mm)		14
	Tightening torque (lb. ft.)		25
	Gap		.033-.038
Cable	Conductor type		Linen core impregnated with an electrical conducting material
	Insulation type		Rubber with neoprene jacket
	Spark plug protector		Plastic

ELECTRICAL—SUPPRESSION

Description	Non-metallic high tension cables

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MODEL 1100-1500-1700 Series (6 cyl.)

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator-type		Tell-tale light
Temperature indicator-type		Gauge
Oil pressure indicator-type		Tell-tale light
Fuel indicator-type		Gauge
Other		Parking brake tell-tale light (a)
Ignition switch	Identify positions in order and circuits controlled	53° Counter clockwise from vertical - "Lock" 13° Counter clockwise from vertical - "Off", unlocked 27° Clockwise from vertical - "On" ign., batt., accessories 57° 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 lights 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 lights Rotate knob counter clockwise to turn on and brighten instru. panel lights and turn on dome light.
Other light switches	Locations and lamps controlled	Toe panel ---------- Headlight dimmer Glove compartment ---------- Glove comp. lamp (c) Front door hinge pillar ---------- Dome lamp (d) Under instrument panel ---------- Turn signal lamps Under instrument panel ---------- Stop lamps Steering mast jacket ---------- Back up lamps (a)
Other switches	Locations and devices controlled	Accelerator linkage ---------- Overdrive kick down (h) Instrument panel ---------- Heater blower (e) Door or qtr. trim panels ---------- Power windows (f) Front seat lwr. panel, lh ---------- Power seat (f) Instru. panel, center ---------- Radio (e) Instru. panel, left ---------- W/s wiper, back window (g)
Windshield wiper	Make	Delco
	Type	Electric, single speed (b)
	Vacuum booster provision	None
	Washer provision	Fact Opt. Acc. (pushbutton), or dealer inst. acc. (pushbutton or foot op.)(
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	8.0-11.0 @ 12.5 volts

(a) Standard equipment on 1700 Series, dealer inst. acc. on all others

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(b) Two speed (electric) with pushbutton washers avail. as Factory Optional Accessory.
(c) Dealer installed accessory on 1100 Series, standard equipment on all others.
(d) Except 1100 Series.
(e) Available as Factory Optional Accessory or dealer installed accessory.
(f) Available as Regular Production Option on 1500-1700 Series.
(g) Power operated tailgate window std. equip. on 9-pass. wagon (1545) Reg. Prod. Opt. on 1535-1735 wagons.
(h) Available as Regular Production Option.

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MODEL 1100-1500-1700 Series (6 cyl.)

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		1-53
Parking light		2-1034 (4 cp filaments)
Tail light		4-1034 (4 cp filaments)
Stop light		4-32 cp. filaments of tail light bulbs
Direction signal	Front	2-32 cp. filaments of parking light bulbs
	Rear	4-32 cp. filaments of tail light bulbs
	Indicator	2-57
License plate light		Sta.wgns.,sed.del.,sed pickup: 1-67, balance of models: 2-67
Instrument light		1100-1500 series: 4-57. 1700 series: 5-57
Ignition lock light		1-53
Back up light		2-1073 (std. equip. on 1700 series. acc.on 1100-1500 series)
Dome light		Sport coupe, sport sedan: 2-90, convt.:2-89, balance of models: 1-1004
Clock light		1-57 (std. equip. on 1700 series,acc on 1100-1500 series)
Radio light		1-1891*
Glove compartment light		1-57 (std. equip. on 1500-1700 series, acc on 1100 series)
Charge indicator		1-57
Oil press.ind.		1-57
hird seat courtesy		1-89 (9-passenger wagon only)
ark brake alarm		1-257 (std. equip. on 1700 series, acc on 1100-1500 series)
Heater		1-53*

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 lights SFE-10 (a), Direction indicator same as (a).

Headlamp	15CB (a)
Headlamp beam indicator	(a)
Parking light	(a)
Tail light	3 AG/AGC-15 amp (b)
Stop light	(b)
Direction indicator	Flasher
License plate light	(b)
Instrument light	3 AG/AGC-3 amp (c)
Ignition light	(c)
Back up light	3 AG/AGC-10 amp (d)
Dome light	(b)
Clock	(d)
Clock light	(c)
Radio	Light(all):(c),receiver-manual & p.button:3 AG/AGC 4 amp.,sig.seek:3 AG/AGC 7.
Glove compartment light	(b)
Cigarette lighter	Not fused
ark brake alarm	(d)
ater	Light: (c), blower: 3 AG/AGC 10 amp
Overdrive	SAE 9 amp.

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MODEL 1100-1500-1700 Series (6 Cyl.)

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Own, single plate
Type pressure plate springs		Diaphragm
Total plate pressure (lb.)		1325-1500 (a)
No. of clutch driven discs		One
Clutch facing	Material	Molded or woven composition
	Outside & inside dia.	9.50 x 6.0 (b)
	Total eff. area (sq.in.)	85.22 (c)
	Thickness	.125 (d)
	Engagement cushioning method	Spring
Release bearing	Type & method of lubrication	Ball bearing; sealed
Torsional damping	Methods: springs, friction material	Springs at hub

DRIVE UNITS—TRANSMISSIONS

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

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds			Three
Transmission	In first		2.94:1
	In second		1.68:1
	In third		1.00:1
	In fourth		None
	In reverse		2.94:1
Synchronous meshing, specify gears			2nd & 3rd
Lubricant	Capacity (pt.)		2
	Type recommended		A-9 mineral oil
	SAE viscosity number	Summer	SAE-90
		Winter	SAE-90
		Extreme cold	SAE-80

(a) 1575-1725 with heavy duty clutch
(b) 11.0 x 6.5 with H.D. clutch
(c) 123.70 sq. in. with H.D. clutch
(d) .133 with H.D. clutch

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MODEL 1100- 1500-1700 Series (6 Cyl.)

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
	Gear ratio			0.70:1
	Lubricant	Capacity (Overdrive only)		1 pint
		Separate filler (yes, no)		No
		Type recommended		A-9 mineral oil
		SAE viscosity 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 Low Rev.	1.82&1.0:1 (a) 1.82:1 1.82:1
Max. upshift speeds—drive range			53
Max. kickdown speeds—drive range			40
Torque convertor	Number of elements		3
	Max. ratio at stall at engine rpm		2.1:1
	Type of cooling (air, water)		Water
Lubricant	Capacity—refill (pt.)		9
	Type recommended		Type "A", Suffix "A"
Special transmission features			

(a) Total transmission torque multiplication - 3.82:1.

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MODEL 1100-1500-1700 Series (6 cyl.)

DRIVE UNITS—PROPELLER SHAFT

Number used			2
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 (Powerglide)		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		Own
	Number used		3
	Type (ball and trunnion, [illegible] 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 disc clutches applied by reaction torque through the differential side gears
Drive Pinion Offset			1.5
No. of differential pinions			2 (a)
Gear ratio and No. of teeth	Automatic transmission		3.36:1, 11-37
	Overdrive trans.		4.11:1, 9-37
	Manual transmission		3.55:1, 9-32
Ring gear pitch diameter & O.D.			8.375 p.d. & o.d.
Pinion adjustment (shim, other)			Shim
Pinion bearing adj. (shim, other)			None
Wheel bearing type			Ball
Lubricant	Capacity (pt.)		4
	Type recommended		A-9 hypoid
	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.

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(a) 4 pinions in Positraction axle.

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MODEL 1100-1500-1700 Series (6 cyl.)

DRIVE UNITS—WHEELS

Type & material		Short spoke disc, pressed steel
Rim (size and flange type)		14x5J (a)(e)
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.75
	Number and size	5/7/16-20

DRIVE UNITS—TIRES

Standard	Size & ply	7.50 x 14-4 ply (b)
	Type - Nylon, etc.	Rayon
	Sidewall color	Black
Optional	Size & ply	7.50 x 14-4 ply (c)
	Type - Nylon, etc.	Rayon
	Sidewall color	White
Rev/mile at 30 mph		784 (d)
Inflation press.(cold)	Front	24 psi
	Rear	24 psi

BRAKES—SERVICE

Type				Servo-4 wheel hydraulic
Power brake type				Vacuum power unit with regular production mstr. cyl.
Effective area (sq. in.)				185.6
Gross lining area (sq. in.)				199.5
Percent brake effectiveness-front				56%
Drum	Diameter	Front		11
		Rear		11
	Type and material			Composite-cast alloy iron rim, pressed steel web
Brake lining	Bonded or riveted			Bonded
	Front Shoe	Material		Full molded asbestos composition
		Size (length x width x thickness)	Front wheel	9.30 x 2.75 x .175
			Rear wheel	9.30 x 2.00 x .175
		Segments per shoe		
	Rear Shoe	Materiol		Full molded asbestos composition
		Size (length x width x thickness)	Front wheel	11.70 x 2.75 x .175
			Rear wheel	11.70 x 2.00 x .175
		Segments per shoe		1
Wheel cylinder bore	Front			1.125
	Rear			1.000
Master cylinder bore				1.000
Available pedal travel				6.4
Line pressure at 100 lb. pedal load				725 (approx.)
Shoe clearance adjustment				Adjust to light drag and back off 7 notches

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(a) Modified used as optional in regular production
(b) 8.00 x 14-4 ply black std. equip. on convertible, sta. wgns., sed.del., sed.pickup.
(c) Except convertible, sta. wgns., sed.del., sed. pickup. 8.00 x 14-4 ply black or white available on all models 8.50 x 14-4 ply black avail. on sed. del. & sed. pickup.
(d) 770 on 8.00 x 14-4 ply, 751 on 8.50 x 14-4 ply.
(e) 6J (2 Low 2 passenger station wagon model 1545.

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MODEL 1100-1500-1700 Series (6 cyl.)

BRAKES—PARKING

Type of control		Apply: Pendulum foot pedal. Release: Integral hand lever
Location of control		Under instrument panel, left of steering column
Operates on		Rear service brakes
If separate from service brakes	Type (internal or external)	None
	Drum diameter	None
	Lining size (length x width x thickness)	None

FRAME or UNITIZED CONSTRUCTION

Type and description	All welded "X" frame with box girder side rails, box section front suspension crossmember, "Z" section intermediate rear crossmember, channel section rear crossmember and reinforced box girder center beam.

SUSPENSION—GENERAL (See Supplemental page 16 for details on Air Suspension)* (a)

Provision for car leveling		Front stabilizer bar (b)
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
Other special features		

SUSPENSION—FRONT

Type and description	Independent short and long arm, spherical joint outer pivots, rubber bushed inner pivots, coil springs.

(Continued)

(a) Air suspension not available on 6 cyl. models
(b) Used only on all station wagons, and Impala models

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

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MODEL 1100-1500-1700 Series (6 cyl.)

SUSPENSION FRONT (cont.)

Spring	Type	Coil
	Material	High alloy steel
	Size (coil design height & I.D.; bar length x dia.	10.30 x 3.800; 128.5 x .664
	Spring rate (lb. per in.)	370
	Rate at wheel (lb. per in.)	129
	Design load (lb. @ design height)	1855 @ 10.30
Stabilizer	Type (link, linkless, frameless)	Link (a)
	Material & bar diameter	H.r. steel, .6875

STEERING

Mechanical (std., opt., NA)				Standard
Power (std., opt., NA)				Optional
Wheel diameter				17"
Turning diameter	Outside front	Wall to wall (l. & r.)		43.6 ft.
		Curb to curb (l. & r.)		40.8 ft.
	Inside rear	Wall to wall (l. & r.)		23.2 ft.
		Curb to curb (l. & r.)		24.5 ft.
Outside wheel angle with inside wheel at 20°				17°54'
Mechanical	Gear	Type		Semi-reversible, recirculating ball
		Make		Saginaw
		Ratios	Gear	24:1
			Overall	28:1
	No. wheel turns			5.80
Power	Type			Hydraulic. Power cylinder in linkage
	Make			Saginaw
	Trade name			Power-Touch
	Gear	Type		Semi-reversible, recirculating ball
		Ratios	Gear	20:1
			Overall	24:1
	Pump driven by			Extension of generator shaft
	Number wheel turns			5.20
Linkage	Type			Relay
	Location (front or rear of wheels, other)			Front
	Drag link (trans. or longit.)			None
	Tie rods (one or two)			Two

(a) Used only on all station wagons and Impala models

(Continued)

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MODEL 1100-1500-1700 Series (6 Cyl.)

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.)		8° ± 30'
	Camber (deg.)		±30' ±30'
	Toe-in (outside tread-inches)		1/16 - 1/8
Steering spindle & joint type			Forged steel with integral brake cyl. mount, detachable st. arms.
Wheel spindle	Diameter	Inner bearing	1.2492-1.2497
		Outer bearing	.7491-.7496
	Thread size		3/4-20
	Bearing type		Ball

SUSPENSION—REAR

Type and description				4-link, Upper control arm & bar, lower control arms, coil spring
Drive and torq. taken through (see page 14)				Upper & lower control arms
Spring	Type			Coil
	Material			High alloy steel
	Size (length x width, coil design height and I.D.; bar length & dia.)			9.55 x 3.618; 124.0 x .587
	Spring rate (lb. per in.)			265
	Rate at wheel (lb. per in.)			112
	Design load (lb. at design height)			1560 @ 9.55
	Mounting insulation type			None
	If leaf	No. of leaves		None
		Inserts	Type and size	None
			Material	None
		Shackle (comp. or tens.)		None
Stabilizer	Type (link, linkless, frameless)			None
	Material			None
Track bar type				Lateral, frame to rear axle

(a) Vehicle load carried on lower spherical joints, no auxiliary bearings required for steering motion.

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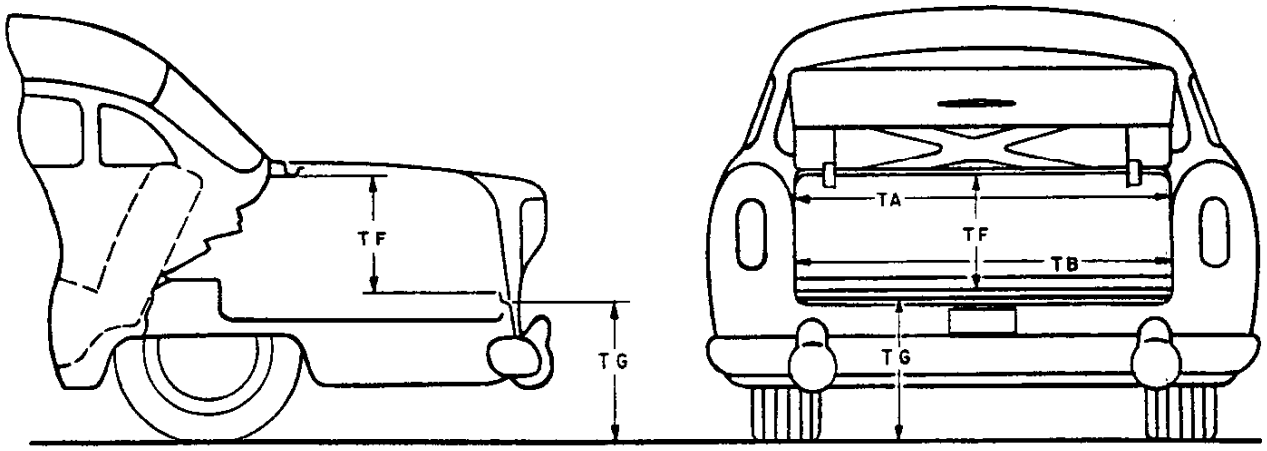
BODY—GENERAL DEFINITIONS

NOTE: Included in the dimension definitions listed on this and the following pages are those which have been adopted by the 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 Sub-Committee 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. Front and rear seat free "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
2. Front and rear seat "B" points are located on seat back 15" from center of body at height of horizontal tangent to top of seat cushion.
3. Front seat is in the full down and normal rearmost position.
4. Loaded position—5 passenger, front 300 lb., rear 450 lb.; includes spare wheel, tire and tools, and full complement of gas, oil, water, and tires to recommended pressure, etc.
5. C/L (centerline).
6. D. L. O. (daylight opening, exposed glass dimension - pages 21, 23 & 25).
7. Ramp breakover angle (page 21) is the supplement of the included ramp angle (180° minus the included ramp angle) over which a car can pass without hanging up.

MODEL 1100-1500-1700 Series(6 cyl)	4-Door Sedan	4-Door Station Wagon

BODY—TRUNK DIMENSIONS



Usable trunk luggage capacity (see Section H1 of SAE Automotive Drafting Standards)	19.248 cu.ft. (b)	- (b)
TA— Width across the top	52.0	-
TB —Width across the bottom	-	-
TF—Vertical dimension at C/L from bottom to top of opening.	7.0	-
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal - loaded)	28.4	-
Position of spare tire stowage	Nearly vertical,rh	Horizontal (a)
Method of holding lid open	Torsion bars,counterbal.	-

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(a) Vertical in rh sidewall on 9-passenger only.

(b) Overall - sedans 30.0 cu.ft.; sport coupe 32.0 cu.ft. (with luggage set 20.1); convertible 29.5 cu.ft. (with luggage set 19.3); station wagon 92.0 cu.ft. (rear seat folded)

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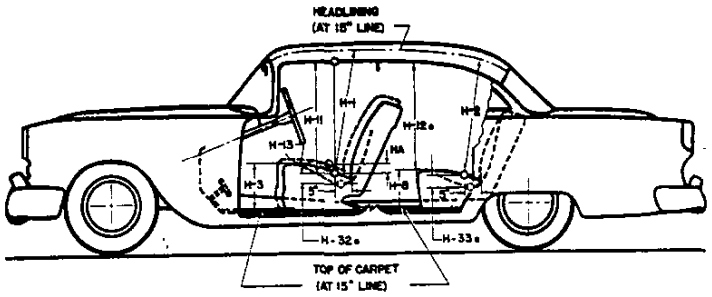
BODY—HEIGHT DIMENSIONS--INTERIOR



MODEL 1100-1500-1700 Series(6 cyl)	4-Door Sedan	4-Door Station Wagon
H1. Front headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line. (For "A" pt. see note 1, page 19)	36.1	35.8
H2. Rear headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line.	34.3	36.9(a) 34.0(b)
H3. Front cushion height above low point on floor carpet on 15" line (front edge of cushion).	9.2	9.3
H8. Rear cushion height above low point on floor carpet on 15" line (front edge of cushion).	13.8	12.2(a) 16.0(b)
H11. Entrance—front—cushion free "A" point to bottom windcord vertical.	29.3	29.2
H12a. Entrance — rear — top of cushion at vertical tangent to front of rear seat, to bottom of windcord in rear.	28.0	29.5
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance).	5.2	
HA. Front seat maximum vertical rise at free "A" point.	.5	
HF. Front seat maximum vertical rise of free "A" point with multiple-position seat.	1.8	
H32a. Front seat depressed depth – vertical dimension from free "A" point to depressed "A" point.	4.4	
H33a. Rear seat depressed depth – vertical dimension from free "A" point to depressed "A" point.	4.5	4.4(a) 3.5(b)

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(a) Rear seat (all wagons)
(b) Third seat (9-pass. wagon only)

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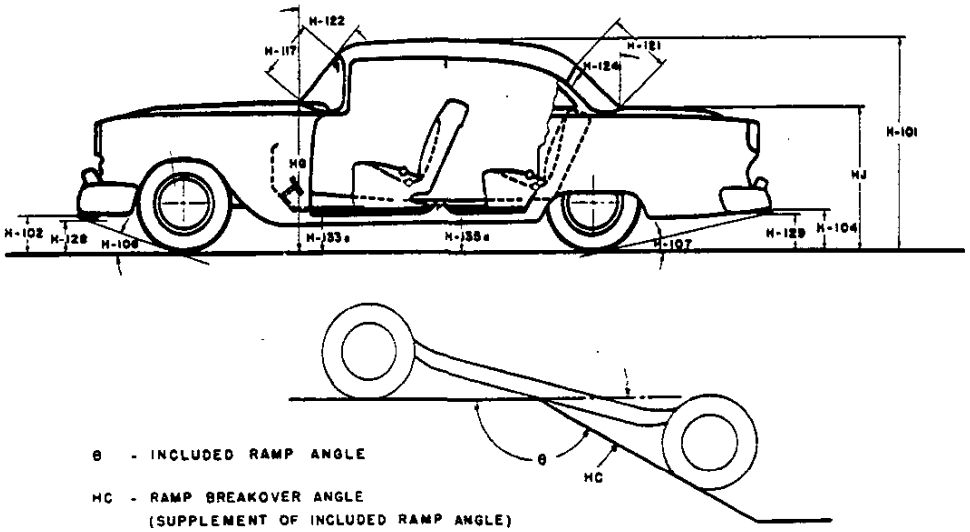
BODY—HEIGHT DIMENSIONS—EXTERIOR



θ - INCLUDED RAMP ANGLE

HC - RAMP BREAKOVER ANGLE
(SUPPLEMENT OF INCLUDED RAMP ANGLE)

MODEL 1100-1500-1700 Series (6 Cyl.)	4-Door Sedan	4-Door Station Wagon
H101. Overall height – loaded.	56.0	56.3
HB. Overall height – curb weight.	58.1	58.4
H102. Front bumper bottom to ground at normal section.	14.9	
H104. Rear bumper bottom to ground at normal section.	15.4	
H106. Angle of appr.-fr. tire static loaded rad. to interfering pt. on fr. bumper, gd., other.	26°	
H107. Angle of dep.-fr. tire static loaded rad. to interfering pt. on rr. bumper, gd., other.	12°45'	
HC. Ramp breakover angle.*	12°30'	
H117. Windshield DLO-slant height.	26.6	
H121. Backlight DLO*-max., slant height.	22.7	14.0
H122. Windshield slope angle to vertical line on car axis.	48°45'	
H124. Backlight slope angle to vertical line on car axis.	59°0'	25°0'
H128. Ground to bottom of front bumper guard.	10.8	
H129. Ground to bottom of rear bumper guard.	11.4	
H133a. Bottom of front door to ground, min. dimension – car loaded.	11.7	11.9
H135a. Bottom of rear door to ground, min. dimension – car loaded.	11.5	11.7
HD. Min. road clear. (5 pass. load) & loc.	6.0 (at muffler)	
HE. Min. road clearance at rear axle.	7.3	
HG. Hood at rr. to grd.-vert. dim. excl. molding, fr. hood opening line at cowl (curb wt.)	N.A.	
HH. Max. ht., fr. grd. frt. of windshield (curb wt.)	N.A.	
HJ. Max. ht. fr. grd. back of r. window (curb wt.)	N.A.	

* See Notes, page 19.

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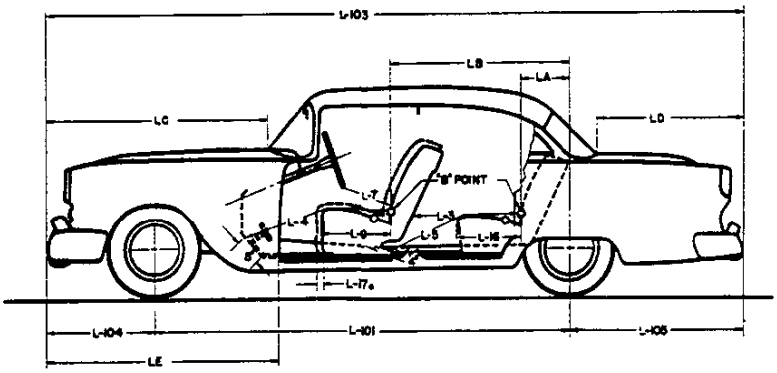
BODY—LENGTH DIMENSIONS



MODEL 1100-1500-1700 Series (6 Cyl.)		4-Door Sedan	4-Door Station Wagon
Interior	L3. Rear compartment of front seat back to rear seat back.	29.2	29.3 (a) 34.5 (b)
Interior	* L4. Leg room—front—ball of foot to top of seat to seat back--15" line.	45.0	44.8
Interior	* L5. Leg room—rear—from ball of foot to top of seat cushion and to seat back	42.8	41.7 (a) 38.3 (b)
Interior	L7. Steering wheel clearance to seat back taken on arc.	14.2	
Interior	* L9. Front seat depth (front edge to vert. tan. to seat back on 15" line).	19.0	18.3
Interior	* L16. Depth of rear seat (front edge to seat back).	18.3	18.6 (a) 18.0 (b)
Interior	L17a. Total adjustment of front seat at front lower seat frame.	4.7 (c)	
Interior	LA. Rear seat "B" point to center line of rear axle.	18.5	18.9 (a) 12.6 (negative) (b)
Interior	LB. Front seat "B" point to center line of rear axle.	53.7	
Interior	LC. Front of car to base of windshield.	52.8	
Interior	LD. Rear of car to base of rear window or upper structure.	45.4	14.7
Interior	LE. Front of car to front edge of front door.	65.1	
Exterior	L101. Wheelbase.	119.0	
Exterior	L103. Overall length (bumper to bumper inc. guards).	210.9	
Exterior	L104. Overhang—front including bumper guards.	32.6	
Exterior	L105. Overhang—rear including bumper guards.	59.3	

* Dimension taken on 15" line—see notes 1 & 2, page 19.

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(a) - Rear seat (all wagons).
(b) - Third seat (9-pass. wagon only).
(c) - 4.8 on multiple position seat.

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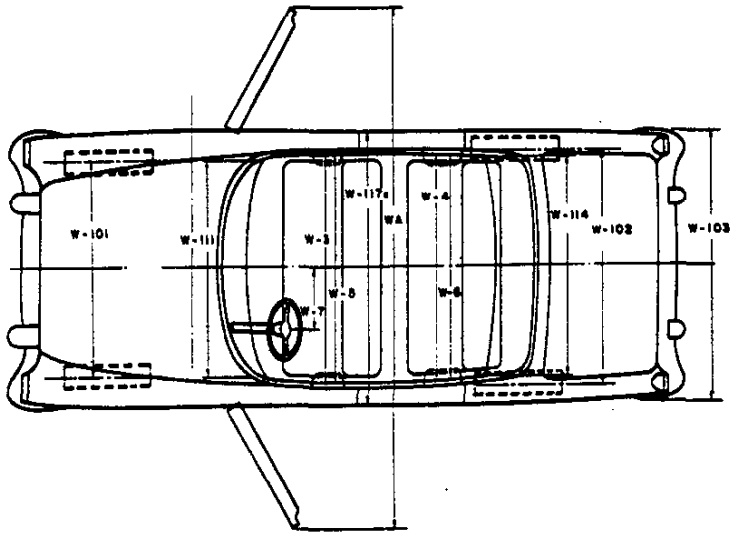
BODY—WIDTH DIMENSIONS



MODEL 1100-1500-1700 Series (6 Cyl.)		4-Door Sedan	4-Door Station Wagon
Interior	W3. Front shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	60.5	60.5
	W4. Rear shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	59.7	59.2 (a) 57.5 (b)
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back.	66.1	66.1
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back.	65.5	66.0 (a) 46.5 (b)
	W7. Steering wheel center to center 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 including bumpers or mouldings.	79.9	
	WA. Max. overall width of car with doors open.	148.9 front (c)	148.9 front (c)
	W111. Windshield DLO, max. width.	64.6	
	W114. Back window DLO, max. width.	61.2	45.4
	W117a. Max. body width at center pillar, less hardware and applied moldings.	79.1	79.0

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(a) - Rear seat (all wagons).
(b) - Third seat (9-pass. wagon only).
(c) - Doors in check position.

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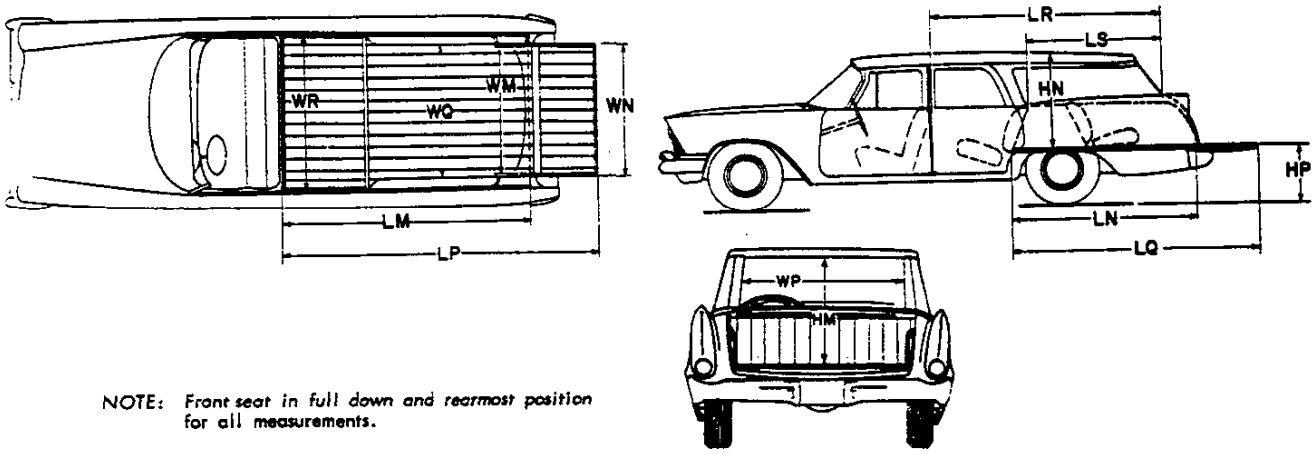
STATION WAGON—CARGO SPACE DIMENSIONS



NOTE: *Front seat in full down and rearmost position* for all measurements.

MODEL 1100-1500-1700 Series (6 Cyl.)	4-Door Station Wagon
LM Floor length from bottom of front seat to inside of tail gate in raised position.	94.8
LN Floor lgth. from bottom of second seat to inside of tail gate in raised position.	60.0
LP Floor lgth. from bottom of front seat to end of tail gate in lowered position.	120.1
LQ Floor lgth. from bottom of second seat to end of tail gate – tail gate lowered.	85.3
HM Maximum hgth. of rear opening – tail gate lowered.	26.7
WM Rear end opening width at floor.	47.6
WN Rear end opening width at top of tail gate.	46.0
WQ Minimum distance between wheelhouses.	46.4
WP Maximum width of rear opening above raised tail gate.	44.6
WR Maximum width of cargo space at floor.	66.0
LR *Cargo horizontal distance from top rear* of front seat back to top of tail gate.	84.2
LS Cargo horizontal distance from top rear of second seat back to top of tail gate.	48.2
HN Maximum height of roof above floor at center line of car.	32.1
HP Platform height of end of lowered tail gate – curb weight.	27.5
Third Seat – facing direction.	Rearward (a)

(a) – 9-passenger model only.

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MODEL 1100-1500-1700 Series (6 Cyl.)

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear) — Front doors	Front
Drs. hinged (front, rear) — Rear doors	Front
Type of finish (lacquer, enamel).	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	Right side of cyl. block to rear of distributor
Theft protection - type	Shielded ign.lock terminals,key removable in"lock"or"on"pos.only
Vent window control method (crank, friction pivot).	Crank
Windshield type (single curved, compound curved, other)	Single, compound curved
Rear window type (flat, curved, one piece, three piece)	Single curved
Side glass type (curved, flat)	Flat
Windshield glass area D.L.O.	1740.1 (a)
Backlight glass area D.L.O.	(b)
Total glass area D.L.O.	(c)

BODY—TYPES AND STYLE NAMES —

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

BODY STYLES:	CODES	
Biscayne	1111	2-door sedan - 6-passenger
	1119	4-door sedan - 6-passenger
	1121	2-door utility sedan - 3-passenger
	1170	2-door sedan delivery - 1-passenger
El Camino	1180	2-door sedan pickup - 3-passenger
Bel Air	1511	2-door sedan - 6-passenger
	1519	4-door sedan - 6-passenger
	1539	4-door sport sedan - 5-passenger
Impala	1719	4-door sedan - 6-passenger
	1737	2-door sport coupe - 5-passenger
	1739	4-door sport sedan - 5-passenger
	1767	2-door convertible - 5-passenger
Station Wagon	1115	2-door station wagon - 6-passenger (Brookwood)
	1135	4-door station wagon - 6-passenger (Brookwood)
	1535	4-door station wagon - 6-passenger (Parkwood)
	1545	4-door station wagon - 9-passenger (Kingswood)
	1735	4-door station wagon - 6-passenger (Nomad)

(a) - Impala sport coupe, sport sedan, convertible: 1711.8
(b) - 2-4 door sedans: 1553.7, sport sedan: 1309.1, sport coupe: 1726.8, convertible (plastic): 963.9, station wagons: 623.2, sedan delivery: 579.2, sedan pickup: 1034.5
(c) - 2-door sedan: 4737.7 (utility sedan: 4722.8), 4-door sedans: 4687.1, sport sedan: 4148.6, sport coupe: 4670.1, convertible (includes plastic backlight): 3685.1, 2-door station wagon: 4964.0, 4-door station wagon: 4961.7, sedan delivery: 3140.1, sedan pickup: 3465.8

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MAJOR OPTIONAL ITEMS - WEIGHTS

1100-1500-1700 Series 6-Cyl.

Model	CURB - WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING * WEIGHT
				Pass. In Front		Pass. In Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
1111- 2-door sedan	1880	1810	3690	32	68			3535
1119- 4-door sedan	1895	1870	3765	32	68			3605
1121- utility sedan	1865	1775	3640	47	53			3480
1170- sedan delivery	1805	1975	3780	47	53%			3635
1180- sedan pickup	1905	1825	3730	47	53%			3585
1511- 2-door sedan	1885	1790	3675	32	68			3515
1519- 4-door sedan	1905	1855	3760	32	68			3600
1719- 4-door sedan	1930	1850	3780	32	68			3625
1737- sport coupe	1915	1810	3725	37	63			3570
1739- sport sedan	1940	1885	3825	35	65			3665
1767- convertible	1955	1860	3815	37	63			3660
1115- 2-door sta. wgn.	1830	2180	4010	32	68			3870
1135- 4-door sta. wgn.	1860	2235	4095	32	68			3955
1535- 4-door sta. wgn.	1865	2240	4105	32	68			3965
1545- 4-door sta. wgn.	1845	2320	4165	17	83			4020
1735- 4-door sta. wgn.	1875	2250	4125	32	68			3980
%-Plus 100% of payload								

Accessories & Equipment Differential Weights				Remarks
Brakes, power			+ 15	
Heater, air flow			+ 24	All vehicle and equipment
Heater, recirculating			+ 18	weights are production weights
Radio & ant. manual			+ 9	All equipment weights are average.
Radio & ant., pushbutton			+ 12	
Seat, power			+ 19	
Steering, power			+ 22	
Trans.- Overdrive			+ 35	
Trans.- Powerglide			+ 107	
Window, power			+ 9	

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

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Data prepared and distributed by American automobile manufacturers, using uniform questionnaire form developed by car manufacturers under auspices of the Automobile Manufacturers Association.

MAKE OF CAR CHEVROLET **MODEL YEAR** 1959 **DATE: ISSUED** 7-15-58 **REVISED** 12-2-58

COMPANY Chevrolet Motor Division, General Motors Corporation

MODEL NAME	SYMBOL	MODEL NAME	SYMBOL
Biscayne	1200	Station Wagons	1200(Brookwood)
Bel Air	1600		1600(Parkwood, Kingswood)
Impala	1800		1800(Nomad)

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NOTES:

1. The specifications set forth herein are those in effect at the date of compilation and are subject to change without notice.

UNLESS OTHERWISE INDICATED:

2. All specifications are standard for the models under which they are listed.
3. Specifications apply basically to 4-door sedan or equivalent. Body dimensions shown on pages 19-24 include other body models available.
4. All dimensions are nominal engineering dimensions.

GENERAL SPECIFICATIONS

MODEL		Additional Information Page No.:	1200-1600-1800 Series	
			283 cu. in. V-8 (Standard)	348 cu. in. V-8 (Optional)
Wheelbase (L-101)		22	119.0	
Tread	Front (W-101)	23	60.3	
	Rear (W-102)	23	59.3	
Maximum Overall Dimensions	Length (L-103)	22	210.9	
	Width (W-103)	23	79.9	
	Height (H-101)	21	56.0	
Transmission—(Specify trade name – opt., not available)	Manual	12	3-Speed (b)	3-Speed (c)
	Overdrive	13	Optional (h)	Not used
	Automatic	13	Powerglide, Turboglide optional (f)	
Axle ratio	Manual	14	3.55:1	3.36:1 (i)
	Overdrive	14	3.70:1	Not used
	Automatic	14	3.36:1	3.08:1 (j)
Tire size		15	7.50 x 14-4 ply (a)	
Engine	Type, no. cyl., valve arr.	2	90° V-8, OHV	
	Fuel system (Carb. or inj.)	6	Carburetor (g)	Carburetor
	Bore and stroke	2	3.875 x 3.000	4.125 x 3.25
	Piston displ., cu. in.	2	283	348
	Std. compression ratio	2	8.5:1 (d)	9.5:1 (e)
	Max. bhp at engine rpm	2	185 @ 4600	250 @ 4400
	Max. torque at rpm	2	275 @ 2400	355 @ 2800

(a) 8.00 x 14-4 ply on Convertible, Station Wagons, Sed. Del., Sed. Pickup. Rev. Form 1-58

(b) 4-speed optional with Fuel Injection

(c) 4-speed optional

9.5:1 with 4-barrel carburetor and Fuel Injection; 10.5:1 with F.I. and spec. cam.
11.0:1 with special cam and H D Powerglide; 11.25:1 with synchromesh and special cam.

(f) Turboglide NA with 4-bbl. carburetor and special cam; no auto. w/3x2 carbs. & spec. cam

(g) Fuel Injection available optionally

(h) NA with Fuel Injection.

(i) 3.55:1 rear axle used with 4-speed transmission

(j) 3.55:1 rear axle used with special camshaft engines

AMA Specifications — Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 11-25-58
1200-1600-1800 Series

MODEL

		283 cu.in. V-8 (Standard)	348 cu.in. V-8 (Optional)
ENGINE—GENERAL			
Type, no. cyls., valve arr.		90° V8, OHV	
Bore and stroke		3.875 x 3.000	4.125 x 3.25
Piston displacement, cu. in.		283	348
Bore spacing (C/L to C/L)		4.4	4.84
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)	Standard	8.5:1	9.5:1
	Optional	9.5:1 (a)	11.0:1 (e)
Cylinder Head Material	Standard	Cast alloy iron	
	Optional	None	
Cylinder Sleeve - Wet, dry, none		None	
Number of mounting points	Front	Two	
	Rear	One	
Taxable horsepower $\frac{Dia.^2 \times No. Cyl.}{2.5}$		48	54.5
Published max. bhp at engine RPM*	Standard	185 @ 4600	250 @ 4400
	Optional	(f)	(f)
Published max. torque* (lb. ft. @ RPM)	Standard	275 @ 2400	355 @ 2800
	Optional	(f)	(f)
Recommended fuel regular - premium	Standard	Regular	Premium
	Optional	Premium	Premium
Recommended idle speed (neutral)		3-speed, 475 RPM in Neutral; Automatic, 450 RPM in Drive	
ENGINE—PISTONS			
Material		Cast aluminum alloy	
Description and finish		Flat head, slipper skirt autothermic (b)(d)	Peak roof, slipper skirt autothermic (c)
Weight (piston only) oz.		20.40	26.72 (g)

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

(Continued)

(a) 10.5:1 with Fuel Injection and special cam.
(b) With machined relief for valve clearance.
(c) Half flat having machined relief for valve clearance and half slanted downward 16° with special cam.
(d) Fuel Injection with special cam - domed piston having machined relief.
(e) With special cam and H D Powerglide; 11.25:1 with synchromesh and special cam.
(f) See Page 2 Supplement
(g) 26.20 oz. with special cam.

AMA Specifications -- Passenger Car

Supplement to Page 2

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE ISSUED 7-15-58 REVISED 11-25-58

SUPPLEMENTARY INFORMATION

MODEL 1200-1600-1800 Series

Max BHP @ Engine RPM	Max. Torque @ RPM
283 cu. in. V-8	
4-barrel Carburetor 230 @ 4800	300 @ 3000
Ramjet Fuel Injection 250 @ 5000	305 @ 3800
Ramjet Fuel Injection (with special camshaft) 290 @ 6200	290 @ 4400
348 cu. in. V-8	
4-barrel Carburetor (with special camshaft and H D Powerglide) 305 @ 5600	350 @ 3600
3 x 2-barrel Carburetor 280 @ 4800	355 @ 3200
3 x 2-barrel Carburetor (with special camshaft and synchromesh) 355 @ 5800	362 @ 3600
4-barrel Carburetor (with special camshaft and synchromesh) 320 @ 5600	358 @ 3600

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 1-30-59

MODEL 1200-1600-1800 Series

			283 cu.in. V-8 (Standard)	348 cu.in.V-8 (Optional)
ENGINE PISTONS (Cont.)				
Clearance (limits)	Top land		.035-.043	.0325-.0367
	Skirt	Top	.0006-.0010 (a)	.0006-.0010 (c)
		Bottom	NA	NA
Ring groove depth	No. 1 ring		.2153-.2218	.2283-.2334
	No. 2 ring		.2153-.2218	.2283-.2334
	No. 3 ring		.2093-.2158	.2183-.2234
	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.		Upper: cast alloy iron, plain, chrome plated. Lower; cast alloy iron, plain, wear resistant coating	
	Width		.0775-.0780	.0770-.0780
	Gap		.010 - .020	.015 - .025
	Description - material, type, coating, etc.		Rails: steel, chrome plate O.D. Spacer: stainless steel	
	Width		.224-.231 (d)	.224-.231 (d)
	Gap		.015-.055 (e)	.015-.055 (e)
Expanders			In oil ring assembly	
ENGINE-PISTON PINS				
Material			Chromium steel	
Length			2.990-3.010	3.250-3.270
Diameter			.9270-.9273	.9895-.9898
Type	Locked in rod, in piston, floating, etc.		Pressed in rod	
	Bushing	In rod or piston	None	
		Material	None	
Clearance	In piston		.00015-.00025	
	In rod		None	
Direction & amount offset in piston			Major thrust side - .060	
ENGINE-CONNECTING RODS				
Material			Drop forged steel	
Weight (oz.)			19.02	19.20
Length (center to center)			5.699-5.701	6.134-6.136
Bearing	Material & Type		Steel backed babbitt (b)	
	Overall length		.817	.867
	Clearance (limits)		.0007-.0027	.007-.0027
	End play		.008-.014	.008-.014

(a) Measured 2.44 from top of piston

(b) Steel backed aluminum alloy matrix with a thin lead alloy overplate with special cam and Synchromesh transmission

(c) Measured 2.94 from top of piston

(d) .1855-.1865 with special cam

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AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 1-30-59
1200-1600-1800 Series

MODEL

			283 cu.in. V-8 (Standard)	348 cu.in. V-8 (Optional)
ENGINE—CRANKSHAFT				
Material			Forged steel	
Vibration damper type			Oscillating (rubber floating)	
End thrust taken by bearing (No.)			5	
Crankshaft end play			.002-.006	.003-.007
Main bearing	Material & type		Steel backed babbitt, removable (a)	
	Clearance		.0008-.0034	.0006-.0032
	Journal dia. and bearing overall length	No. 1	2.2983 x .762	2.4985 x 1.002
		No. 2	2.2983 x .762	2.4985 x 1.002
		No. 3	2.2983 x .762	2.4985 x 1.002
		No. 4	2.2983 x .762	2.4985 x 1.002
		No. 5	2.2983 x 1.169	2.4985 x 1.262
		No. 6	None	None
		No. 7	None	None
	Dir. & amt. cyl. offset		None	None
Crankpin journal diameter			1.999-2.000	2.199-2.200
ENGINE—CAMSHAFT				
Location			Above crankshaft	
Material			Cast alloy iron	
Bearings	Material		Steel backed babbitt	
	Number		5	
Type of drive	Gear or chain		Chain	
	Crankshaft gear or sprocket material		Steel	
	Camshaft gear or sprocket material		Cast alloy iron	
	Timing chain	No. of links	46	48
		Width	.875	.875
		Pitch	.500	.500
ENGINE—VALVE SYSTEM				
Hydraulic lifters (Std, opt, NA)			Standard (b)	
Special provision for valve rotation (intake, exhaust)			None	
Rocker ratio			1.5:1	1.75:1
Operating tappet clearance (indicate hot or cold)		Intake	Zero (c)	
		Exhaust	Zero (c)	
Timing marks on flywheel, damper, other			Damper	

(Continued)

(a) With special camshaft, and Synchromesh transmission #1 thru 4-steel backed aluminum alloy matrix with a thin lead alloy overplate

(b) Mechanical valve lifters standard with special camshaft

(c) Valve lash (hot) with special camshaft – .012" intake, .018" exhaust

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 1-30-59

MODEL 1200-1600-1800 Series

ENGINE—VALVE SYSTEM (cont.)

			283 cu. in. V-8 (Std.)		348 cu. in. V-8 (Opt.)		
			Reg. Cam	Spec. Cam	Reg. Cam All Trans.	Special Cam Reg.Trans.	Special Cam H.D. PG
Timing	Intake	Opens (°BTC)	12°30'	35°	18°30'	35°	33°
		Closes (°ABC)	57°30'	72°	67°30'	72°	74°
		Duration - deg.	250°	287°	266°	287°	287°
	Exhaust	Opens (°BBC)	54°30'	76°	68°30'	76°	88°
		Closes (°ATC)	15°30'	31°	25°30'	31°	19°
		Duration - deg.	250°	287°	274°	287°	287°
	Valve opening overlap		28°	66°	44°	66°	52°
Intake	Material		High Alloy Steel (864 5)(d)				
	Overall length		4.902-4.922	4.869-4.889	5.095-5.115		
	Actual overall head dia.		1.715-1.725		1.935-1.945		
	Angle of seat		46° in head				
	Seat insert material		None				
	Stem diameter		.3415-.3422		.3715-.3722		
	Stem to guide clearance		.0010-.0027		.0010-.0027		
	Lift		.3987	.3938	.4005	.4058	.4076
	Outer spring press. and length	Valve closed (lb. @ in.)	69-79@ 1.696		78-86@ 1.626 (a)		
		Valve open (lb. @ in.)	159-169 @ 1.306		184-196 @ 1.230 (b)		
	Inner spring press. and length	Valve closed (lb. @ in.)	None		20-24 @ 1.488 (c)		
		Valve open (lb. @ in.)	None		55-61 @ 1.06 (c)		
Exhaust	Material		High Alloy Steel (21-4N)(d)				
	Overall length		4.913-4.933	4.890-4.910	5.105-5.125		
	Actual overall head dia.		1.495-1.505		1.655-1.665		
	Angle of seat		46° in head				
	Seat insert material		None				
	Stem diameter		.3410-.3417		.3710-.3717		
	Stem to guide clearance		.0015-.0032		.0025-.0042		
	Lift		.3987	.3998	.4119	.4120	.4139
	Outer spring press. and length	Valve closed (lb. @ in.)	69-79 @ 1.696		78-86 @ 1.626 (a)		
		Valve open (lb. @ in.)	159-169 @ 1.306		184-196 @ 1.230 (b)		
	Inner spring press. and length	Valve closed (lb. @ in.)	None		20-24 @ 1.488 (c)		
		Valve open (lb. @ in.)	None		55-61 @ 1.06 (c)		

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

(a) 69-79 @ 1.696 with special cam and synchromesh transmission. (Continued)

(b) 159-169 @ 1.306 with special cam and synchromesh transmission.

(c) With special cam and synchromesh transmission

(d) Aluminized valve faces on 348 engines with spec. cam and synchromesh transmission.

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 11-25-58

1200-1600-1800 Series

MODEL	283 cu.in. V-8 (Standard)		348 cu.in. V-8 (Optional)
ENGINE—LUBRICATION SYSTEM (cont.)			
Oil pump type	Gear		
Normal oil pressure (lb. @ engine rpm)	35 psi @ 2000 RPM		
Oil pressure sending unit (elect. or mech.)	Electrical		
Type oil intake (floating, stationary)	Stationary		
Oil filter system (full flow, partial, other)	Full flow (a)		Full flow (b)
Filter replacement (element, complete)	Element		
Capacity of crankcase, less filter-refill (qt.)	4		
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 Below 0°F – 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 cross-over pipe (c)		Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	One-reverse flow		Two, reverse flow with resonators
Exhaust pipe dia. (O.D. & wall thickness) Branch	NA		NA
Exhaust pipe dia. (O.D. & wall thickness) Main	2.0 x .0625		2.0 x .0625 (h)
pipe diameter (O.D. & wall thickness)	1.81 x .0598		1.875 x .0598 (h)
ENGINE—FUEL SYSTEM	(See Supplement to Page 6 for Details of Fuel Injection, Supercharger, etc. if used)		
Induction type: Carburetor, fuel injection, supercharger.	Carburetor (e)		Carburetor
Fuel Tank – Capacity (gals.)	20 (d)		
Fuel Tank – Filler location	Concealed behind hinged rear license plate (f)		
Fuel Pump – Type (elec. or mech.)	Mechanical		
Fuel Pump – Locations	Lower right front of engine		
Fuel Pump – Pressure range	5.25-6.50 psi		
Vacuum booster (std., optional, none)	None		
Fuel Filter – Type and	Strainer in gasoline tank and sintered		
Fuel Filter – Locations	bronze filter in carburetor inlet		
Carburetor – Make & Model No.	(g)		(g)
Carburetor – Number & Type	(g)		(g)
Carburetor – Barrel size	1.4375		1.4375
Carburetor – Choke type	Automatic		
Carburetor – Intake manifold heat control (exhaust or water)	Exhaust		
Carburetor – Air clnr. type Standard	Dry		
Carburetor – Air clnr. type Optional	None		

(a) Standard equipment with Fuel Injection
(b) Mandatory equipment with special cam
(c) Dualmehaust standard with Fuel Injection; optional on others-have resonators
(d) 17 gal. on 6-pass. Station Wagons & Sedan Delivery, 18 gal. on 9-pass. Station Wagon
(e) Fuel Injection optional
(f) In left rear quarter panel on Station Wagons and Sedan Delivery
(g) See supplement
(h) 2.5" OD exhaust pipe and 2.0" OD tail pipe with special cam and synchromesh transmission

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 10-16-58

SUPPLEMENTARY INFORMATION

MODEL 1200-1600-1800 Series V-8

Engine Fuel System - Fuel Injection

Injection System	Make	Rochester Products
	Model	7017200 (b)
	Type	Constant flow
Fuel Recommended		Premium
Fuel Pump	Type	Mechanical
	Location	Lower right front corner of engine
	Pressure range	5.25-6.50 psi
Auxiliary Fuel Filter	Type	Paper filter
	Location	Bracketed to engine adapter on right, rear of center
Inlet Manifold Adapter-Material		Cast aluminum
Inlet Manifold - Material		Cast aluminum
Air Induction (a)	Air Cleaner Type	Dry (paper element)
	Air Meter Location	Left side of engine
	Plenum Chamber	Integral with inlet manifold
	Ram Pipes	Eight, integral with inlet manifold
	Ram Pipe Length	12 inches
Fuel Induction		Metered as function of air flow
Air/Fuel Ratio Control	Type	Vacuum sensitive diaphragm
	Location	On fuel meter
Fuel Meter Pump	Type	Gear
	Location	In fuel meter assembly
	Drive	Gear driven by flexible shaft from distributor
	Pressure (max.)	300 psi
Injection Nozzles	No. Used	Eight
	Material	Brass
	Location	Mounted on inlet manifold above intake ports
	Orifice Size.Fuel	.0118
	Insulation	Bakelite blocks
Automatic Enrichment	Type	Electric, time-temperature
	Location	On air meter assembly
	Current Draw	1 amp. @ 70°
	Fast Idle Cam	Yes

(a) Air intake ducts which channel outside air to the engine compartment are furnished with Fuel Injection.
(b) 7017250 with special camshaft.

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE ISSUED 7-15-58 REVISED 1-30-59

1200-1600-1800 Series V-8

SUPPLEMENTARY INFORMATION

MODEL 1200-1600-1800 Series V-8

Engine Fuel System - cont'd.

Type	Transmission	Make	Model
		283 Cubic Inch	
2-bbl, D.D.	3-Speed	Rochester	7013007
	Automatic	Rochester	7013008
4-bbl, D.D.	3-Speed	Carter	3756676
	Automatic	Rochester	7013004
		348 Cubic Inch	
4-bbl, D.D.	3 or 4-Speed	Carter	3756677
	Automatic	Carter or	3756678
		Rochester	7013006
4-bbl, D.D. (spec.cam)	3 or 4-Speed H.D. Powerglide	Carter	3764593
3x2 bbl, D.D.	3 or 4-Speed	Rochester	7013015 (front)(a) 7013020 (center) 7013017 (rear) (a)
	Automatic	Rochester	7013016 (center)
3x2 bbl, D.D.	3 or 4-Speed	Rochester	7013973 (front) 7013974 (center) 7013975 (rear)

(a) Also used with automatic transmissions.

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 11-25-58

MODEL 1200-1600-1800 Series

ENGINE—COOLING SYSTEM

		283 cu.in. V-8 (Standard)	348 cu.in. V-8 (Optional)
Type (pressure system, atmospheric, other)		Pressure system	
Radiator cap relief valve pressure		13 psi	
Circulation thermostat	Type (choke, bypass)	Choke	Bypass
	Starts to open at (°F)	167-172°F	
Water pump	Type (centrifugal, other)	Centrifugal	
	Number of pumps	One	
	Drive (V-belt, other)	V-belt	
	Bearing type	Permanently lubricated double row ball	
By-pass recirculation type (internal, external)		Internal	External
Radiator core type (cellular, tube and fin, other)		Tube on center	
Cooling system capacity	With heater (qt.)	18.5*	22.0
	Without heater (qt.)	17.5*	21.0
	Opt. equipment-specify (qt.)	None	
Water jackets full length of cylinder (yes, no)		Yes	
Water all around cylinder (yes, no)		Yes	
Radiator hose	Lower: Number and type (molded, straight)	One, molded	
	Lower: Inside diameter	1.75	
	Upper: Number and type (molded, straight)	One, molded	
	Upper: Inside diameter	1.50	
	By-pass: Number and type (molded, straight)	None	One, molded
	By-pass: Inside diameter	None	.610
Fan	Number of blades & Spacing	4, staggered	
	Diameter	17.62"	
	Ratio-fan to crankshaft rev.	.949:1	
	Fan cutout type	(a)	
	Bearing type	Permanently lubricated double row ball	
*Drive belts (indicate belt used by letter)	Fan	A	C
	Generator	A	C
	Water Pump	A	C
	Power Steering	B	B
	Air Conditioning	B	B
	Air Suspension	B	B

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* Drive Belt Dimensions	A	C	B	
Angle of V	37-44°	37-44°	37-44°	
Nominal length (SAE)	54.12(b)	57.00 (b)	56.00 (b)	
Width	.380/.005	.380/.005	.380/.005	

(a) Viscous coupling, 5-blade, 18" fan used with air conditioning, fan speed limited to 3100 RPM.

(b) Pitch length.

(c) With 3-speed transmission.

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 1-30-59

MODEL 1200-1600-1800 Series

ELECTRICAL—SUPPLY SYSTEM

			283 cu.in. V-8 (Standard)	348 cu.in. V-8 (Optional)
Battery	Make and Model		1980458 Delco-Remy	1980558
	Voltage Rtg. & Total Plates		12 volt, 54 plate	12 volt, 66 plate
	SAE Designation & Amp Hr. Rtg.		2 SHR, 53 amp.hr.@ 20 hr. rate	61 amp.hr @ 20 hr. rate
	Location		Engine compartment, right front	
	Terminal grounded		Negative	
Generator	Make		Delco-Remy	
	Model		1102097 (a)	
	Type		Two brush, shunt wound	
	Ratio—Gen. to Cr/s rev.		2.3:1 (b)	
	Gen. cut-in—engine rpm		510	
Regulator	Make		Delco-Remy	
	Model		1119001	1119234
	Type		Vibrator	
	Cutout relay	Closing voltage @ generator rpm	11.8-13.5 @ 1300	
		Reverse current to open	N.A.	
	Regulated	Voltage	13.8-14.8	
		Current	27-33	
	Voltage test conditions	Temperature	Operating	
		Load	8-10 amperes	
		Other	None	

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy	
	Model		1107664 (c)	1107688 (d)
	Rotation (drive end view)		Clockwise	
	Engine cranking speed		N.A.	
	Test conditions		Engine at operating temperature	
	Lock test	Amps	N.A.	N.A.
		Volts	N.A.	N.A.
		Torque (lb. ft.)	N.A.	N.A.
	No load test	Amps	49-76	65-100
		Volts	10.6	10.6
		RPM (min.)	6200-9400	3600
Motor control	Switch (solenoid, manual)		Positive Shift Solenoid	
	Starting procedure		Place shift lever in neutral and depress clutch (e) Press accelerator to floor once to set automatic choke, then release. Turn ignition key to extreme right position to start engine.	

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(a) 1102059 with special cam
(b) 1.66:1 with special cam
(c) 1107694 with Turboglide
(d) 1107687 with Turboglide;
(e) For automatic transmission, place selector lever in "P" (Park) or "N" (Neutral) position.

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E OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 1-30-59

1200-1600-1800 Series

MODEL

			283 cu.in. V-8 (Standard)	348 cu.in. V-8 (Optional)
ELECTRICAL—STARTING SYSTEM (cont.)				
Motor drive	Engagement type		Positive shift solenoid	
	Pinion meshes (front, rear)		Front	
	Number of teeth	Pinion	9	
		Flywheel	168	
	Flywheel tooth face width		.4135 (a)	
ELECTRICAL—IGNITION SYSTEM				
Coil	Make		Delco-Remy	
	Model		1115115 (b)	1115083 (c)
	Amps	Engine stopped	4.0	
		Engine idling	1.8	
Distributor	Make		Delco-Remy	
	Model		1110947 (d)	1110948 (k)
	Centrifugal adv. in crankshaft degrees @ engine rpm	Start (rpm)	600 (h)	700 (l)
		Intermediate points deg. @ rpm	12@ 1500 (h)(i)	11° @ 1600 (l)
		Max deg. @ rpm	28@ 3750 (h)(i)	24@ 4600 (l)
	Vacuum adv. in crankshaft degrees @ in. Hg.	Start (in. Hg)	0@ 8 (j)	0@ 8 (f)
		Intermediate points, deg.@in.Hg	N.A. (f)	N.A. (f)
		Max.deg. in. Hg.	15@ 15.5 (j)	15@ 15.5 (f)
	Breaker gap (in.)		.016-.021	
	Cam angle (deg.)		26-33	
	Breaker arm tension (oz.)		19-23	
Timing	Crankshaft deg. @ rpm.		4 BTC (g)	
	Mark location		Vibration damper	
	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-44 (e)	
	Thread (mm)		14	
	Tightening torque (lb. ft.)		25	
	Gap		.035	
Cable	Conductor type		Linen core impregnated with electrical conducting material	
	Insulation type		Rubber with neoprene jacket	
	Spark plug protector		Hypalon jacket	
ELECTRICAL—SUPPRESSION				
Description			Non-metallic high tension cable	

.) .3435 with Turboglide transmission
5083 with Fuel Injection
5111 with 3x2 carburetors & 4-bbl.HD PG
1115114 with special cam & syn. trans.
) 1110946 with 4-barrel carburetor;
1110914 with Fuel Injection & special cam
1110915 with Fuel Injection
) 348 engine AC-44N

(f) No vacuum advance with special cam & syn. trans.
(g) 14° BTC with Fuel Injection and spec.cam
(h) 0 @ 1000, 5 @1500 and 22@6000 w/F.I. &spec.cam
(i) 14@ 1500 and 28@ 3700 for 4-barrel and Fuel Inj.
(j) 0@ 5 and 24@ 13.5 for Fuel Injection.
(k) 1110919 with special camshaft and synchromesh
(l) 0@ 600, 15@ 1550 and 28@ 5000 with special cam and synchromesh transmission.

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MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 10-16-58

MODEL 1200-1600-1800 Series

ELECTRICAL—INSTRUMENTS AND SWITCHES

		283 cu.in. V-8 (Standard)	348 cu.in. V-8 (Optional)
Speedometer	Make	AC	
	Trip odometer (yes, no)	No	
Charge indicator-type		Tell-tale light	
Temperature indicator-type		Gauge	
Oil pressure indicator-type		Tell-tale light	
Fuel indicator-type		Gauge	
Other		Parking brake tell-tale light (a)	
Ignition switch	Identify positions in order and circuits controlled	53° Counter clockwise from vertical - "Lock" 13° Counter clockwise from vertical - "Off", unlocked 27° Clockwise from vertical - "On" ign., batt., accessories 57° 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 lights 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 lights Rotate knob counter clockwise to turn on and brighten instru. panel lights and turn on dome light.	
Other light switches	Locations and lamps controlled	Toe panel ——— Headlight dimmer Glove compartment ——— Glove comp. lamp (c) Front door hinge pillar ——— Dome lamp (d) Under instrument panel ——— Turn signal lamps Under instrument panel ——— Stop lamps Steering mast jacket ——— Back up lamps (a)	
Other switches	Locations and devices controlled	Accelerator linkage ——— Overdrive kick down (h) Instrument panel ——— Heater blower (e) Door or qtr. trim panels ——— Power windows (f) Front seat lwr. panel, lh ——— Power seat (f) Instru. panel, center ——— Radio (e) Instru. panel, left ——— W/s wiper, back window (g)	
Windshield wiper	Make	Delco	
	Type	Electric, single speed (b)	
	Vacuum booster provision	None	
	Washer provision	Fact Opt. Acc. (pushbutton),or dealer inst.acc.(pushbutton or foot op)(b	
Horn	Type	Vibrator	
	Number used	2	
	Amp draw (each)	8.0-11.0 @ 12.5 volts	

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(a) Standard equipment on 1800 Series, dealer installed accessory on all others.
(b) Two-speed (electric) with push button washers avail. as Fact. Opt. Acc.
(c) Dealer installed accessory on 1200 Series, std. equip. on all others.
(d) Except 1200 Series
Available as Factory Optional Accessory or dealer installed accessory
(e) Available as Regular Production Option on 1600-1800 Series
(g) Power operated tailgate window std. equip. on 9-pass. wagon (1645) Reg. Prod. Opt. on 1635 - 1835 wagons.
(h) Avail. as Reg. Prod. Option on 283 cu. in. V-8 only.

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MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 10-16-58

MODEL 1200-1600-1800 Series 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		1-53
Parking light		2-1034 (4 cp filaments)
Tail light		4-1034 (4 cp filaments)
Stop light		4-32 cp filaments of tail light bulbs.
Direction signal	Front	2-32 cp filaments of parking light bulbs
	Rear	4-32 cp filaments of tail light bulbs.
	Indicator	2-57
License plate light		Sta.Wgns.,sed.del.,sed pickup: 1-67, balance of models: 2-67
Instrument light		1200-1600 series: 4-57, 1800 series: 5-57
Ignition lock light		1-53
Back up light		2-1073 (std. equip on 1800 series, acc. on 1200-1600 series)
Dome light		Sport coupe, sport sedan: 2-90, convt. 2-89 balance of models: 1-1004
Clock light		1-57 (std. equip. on 1800 series, acc. on 1200-1600 series)
Radio light		1-1891*
Glove compartment light		1-57 (std. equip. on 1600-1800 series, acc. on 1200 series)
Charge indicator		1-57
Oil press ind.		1-57
Third seat courtesy		1-89 (9-passenger wagon only)
Park brake alarm		1-257 (std. equip on 1800 series, acc. on 1200-1600 series)
Heater		1-53*
Air cond.		1-53*

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 lights SFE-10 (a), Direction indicator same as (a).

Headlamp	15CB (a)
Headlamp beam indicator	(a)
Parking light	(a)
Tail light	3 AG/AGC-15 amp (b)
Stop light	(b)
Direction indicator	Flasher
License plate light	(b)
Instrument light	3 AG/AGC-3 amp (c)
Ignition light	(c)
Back up light	3 AG/AGC-10 amp (d)
Dome light	(b)
Clock	(d)
Clock light	(c)
Radio	Light (all):(c), receiver-mannal & p.button: 3 AG/AGC 4 amp.,sig.seek:3AG/AGC7.5
Glove compartment light	(b)
Cigarette lighter	Not fused
Park brake alarm	(d)
Heater	Light: (c), blower: 3 AG/AGC 10 amp
Air cond.	Light: (c), blower: SAE 20 amp
Overdrive	SAE 9 amp

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AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 1-30-59

MODEL 1200-1600-1800 Series

DRIVE UNITS—CLUTCH (Manual Transmission)

		283 cu. in. V-8 (Standard)	348 cu. in. V-8 (Optional)
Make & type		Semi-centrifugal	
Type pressure plate springs		Diaphragm	
Total plate pressure (lb.)		1475-1625 (a)	1775-1875
No. of clutch driven discs		One	
Clutch facing	Material	Woven (g)	Woven (g)
	Outside & inside dia.	10.0 x 6.0 (b)(d)	10.5 x 6.5 (d)
	Total eff. area (sq.in.)	100.53 (c)	106.8
	Thickness	.135	.133
	Engagement cushioning method	Springs	
Release bearing	Type & method of lubrication	Ball bearing, sealed	
Torsional damping	Methods: springs, friction material	Springs	

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Standard (e)	
Manual with overdrive (std. or opt.)	Optional (h)	NA
Automatic (std. or opt.)	Powerglide and Turboglide (optional)(f)	

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds			Three	Four (e)	Three
Transmission ratios	In first		2.47:1	2.20:1	2.47:1
	In second		1.53:1	1.66:1	1.53:1
	In third		1.00:1	1.31:1	1.00:1
	In fourth		None	1.00:1	None
	In reverse		2.80:1	2.26:1	2.80:1
Synchronous meshing, specify gears			2nd & 3rd	1st thru 4th	2nd & 3rd
Lubricant	Capacity (pt.)		2.0	4.5	2.0
	Type recommended		A-9 mineral oil		
	SAE viscosity number	Summer	SAE-90		
		Winter	SAE-90		
		Extreme cold	SAE-80		

(a) 1575-1725 with Overdrive, 4-barrel carburetor and Fuel Injection.

(b) ID 6.5" on Overdrive, 4-barrel carburetor and Fuel Injection.

(c) 90.72" on Overdrive and Fuel Injection.

(d) Same clutch used with 3 and 4-speed transmissions.

(e) 4-speed close ratio available only with Fuel Injection and 348 cu. in. engines.

(f) Turboglide NA with special camshaft; Powerglide NA with 3X2 carbs. and special camshaft.

(g) Asbestos composition.

(h) Available with only 2 and 4-barrel carburetors.

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MODEL 1200-1600-1800 Series

	283 cu.in. V-8	348 cu.in. V-8

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)		Planetary	NA
	Manual lockout (yes, no)		Yes	–
	Downshift accelerator control (yes, no)		Yes	–
	Minimum cut-in speed		27	–
	Gear ratio		0.70:1	–
	Lubricant: Capacity (Overdrive only)		1 pint	–
	Lubricant: Separate filler (yes, no)		No	–
	Lubricant: Type recommended		A-9 mineral oil	–
	Lubricant: SAE viscosity number	Summer	SAE-90	–
		Winter	SAE-90	–
		Ext. cold	SAE-80	–

DRIVE UNITS—AUTOMATIC TRANSMISSION

		Powerglide	Turboglide	Powerglide	Turboglide
Trade name					
Type describe		Torque converter with planetary gears			
Method of Selection (Lever, Push Button or other)		Lever			
Selector Pattern		P-R-N-D-L	P-R-N-D-Gr	P-R-N-D-L	P-R-N-D-Gr
List gear ratios Selector Pattern and indicate which are used in each selector position		Drive 1.82& 1.0:1(d) Low 1.82 Rev. 1.82	Drive 1.63:1 2.67:1 Grade Retarder 2.67:1	Drive 1.82& 1.0:1(d) Low 1.82 Rev. 1.82	Drive 1.63:1 2.67:1 Grade Retarder 2.67:1
Max. upshift speeds—drive range		55	(b)	55	(b)
Max. kickdown speeds—drive range		50	(b)	50	(b)
Torque convertor	Number of elements	3	5	3	5
	Max. ratio at stall at engine rpm	2.1:1	(a)	2.1:1	(a)
	Type of cooling (air, water)	Water			
Lubricant	Capacity—refill (pt.)	9	4	9	4
	Type recommended	Type A, Suffix "A"			
Special transmission features			(c)		(c)

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(a) 3.8:1 (low stator); 4.2:1 (high stator)

(b) Stator may be switched from low to high angle at any vehicle speed. With the stator vanes in either angle, multiplication ceases at approximately 60 mph.

(c) Grade Retarder provides engine braking. Triple turbine torque converter with variable pitch stator.

(d) Total transmission torque multiplication - 3.82:1.

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 12-2-58

MODEL 1200-1600-1800 Series

DRIVE UNITS—PROPELLER SHAFT

			283 cu.in. V-8 (Standard)	348 cu.in. V-8 (Optional)
Number used			2	
Type (exposed, torque tube)			Exposed	
Outer diameter x length* x wall thickness	Manual transmission (3-speed)		Front - 2.003 x 30.12 x .097 (a) 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 (Powerglide)		Front - 2.003 x 24.03 x .097 (b) Rear - 2.003 x 35.00 x .097	
Intermediate bearing	Type (plain, anti-friction)		Anti-friction	
	Lubrication (fitting, prepack)		Prepack	
Universal joints	Make		Own	
	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 disc clutches applied by reaction torque through the differential side gears	
Drive Pinion Offset			1.5	
No. of differential pinions			2 (c)	
Gear ratio and No. of teeth	Automatic transmission		3.36:1, 11-37	3.08:1, 12-37 (d)
	Overdrive trans.		3.70:1, 10-37	Overdrive not used
	Manual transmission		3.55:1, 9-32	3.36:1, 11-37 (e)
Ring gear pitch diameter & O.D.			8.375 p.d. & p.d.	
Pinion adjustment (shim, other)			Shim	
Pinion bearing adj. (shim, other)			None	
Wheel bearing type			Ball	
Lubricant	Capacity (pt.)		4	
	Type recommended		A-9 hypoid	
	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.

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(a) Optional 4-speed transmission same as Overdrive

(b) Optional Turboglide transmission same as regular production 3-speed

(c) 4 pinions in "Positraction" axle

(d) 3.55:1 rear axle used with special camshaft engines (9-32).

(e) 3.55:1 rear axle used with 4-speed transmission (9-32).

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MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 1-30-59

1200-1600-1800 Series

MODEL | 283 cu.in. V-8 (Standard) | 348 cu.in. V-8 (Optional)

DRIVE UNITS—WHEELS

Type & material		Short spoke disc, pressed steel
Rim (size and flange type)		14x5J (a)(e)
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.75
	Number and size	5,7/16-20

DRIVE UNITS—TIRES

Standard	Size & ply	7.50 x 14-4 ply (b)
	Type - Nylon, etc.	Rayon
	Sidewall color	Black
Optional	Size & ply	7.50 x 14-4 ply (c)
	Type - Nylon, etc.	Rayon
	Sidewall color	White
Rev/mile at 30 mph		784 (d)
Inflation press.(cold)	Front	24 psi
	Rear	24 psi

BRAKES—SERVICE

Type				Servo-4 wheel hydraulic
Power brake type				Vacuum power unit with regular production mstr. cyl.
Effective area (sq. in.)				185.6
Gross lining area (sq. in.)				199.5
Percent brake effectiveness-front				56%
Drum	Diameter	Front		11
		Rear		11
	Type and material			Composite-cast alloy iron rim, pressed steel web
Brake lining	Bonded or riveted			Bonded
	Front Shoe	Material		Full molded asbestos composition
		Size (length x width x thickness)	Front wheel	9.30 x 2.75 x .175
			Rear wheel	9.30 x 2.00 x .175
		Segments per shoe		1
	Rear Shoe	Material		Full molded asbestos composition
		Size (length x width x thickness)	Front wheel	11.70 x 2.75 x .175
			Rear wheel	11.70 x 2.00 x .175
		Segments per shoe		1
Wheel cylinder bore	Front			1.125
	Rear			1.000
Master cylinder bore				1.000
Available pedal travel				6.4
Line pressure at 100 lb. pedal load				725 (approx.)
Shoe clearance adjustment				Adjust to light drag and back off 7 notches

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(a) Modified used as optional inregular production
(b) 8.00 x 14-4 ply black std. equip. on convertible, sta. wgns., sed.del.,sed.pickup.
(c) Except convertible, sta. wgns., sed.del., sed.pickup. 8.00 x 14-4 ply black or white available on all models. 8.50 x 14-4 ply black avail. on sed.del. & sed. pickup.
(d) 770 on 8.00 x 14-4 ply, 751 on 8.50 x 14-4 ply.
(e) 14 x 5-1/2 J on 9-Passenger Station Wagon Model 1645

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 10-16-58

MODEL 1200-1600-1800 Series

		283 cu.in. V-8	348 cu.in. V-8 (Optional)
BRAKES—PARKING (Standard)			
Type of control		Apply: Pendulum foot pedal. Release: Integral hand lever	
Location of control		Under instrument panel, left of steering column	
Operates on		Rear service brakes	
If separate from service brakes	Type (internal or external)	None	
	Drum diameter	None	
	Lining size (length x width x thickness)	None	
FRAME or UNITIZED CONSTRUCTION			
Type and description		All welded "X" frame with box girder side rails, box section front suspension crossmember, "Z" section intermediate rear crossmember, channel section rear crossmember and reinforced box girder center beam.	
SUSPENSION—GENERAL (See Supplemental page 16 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	
Other special features			
SUSPENSION—FRONT			
Type and description		Independent short and long arm, spherical joint outer pivots, rubber bushed inner pivots, coil springs.	

(Continued) Rev. Form 1-58

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

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SUPPLEMENTARY INFORMATION

1200-1600-1800 Series

MODEL	283 cu.in. V8 (Standard)	348 cu.in. V8 (Optional)

SUSPENSION - AIR

Type		"Level Air", with air spring at each wheel. Air supply system consisting of an engine driven air compressor, high pressure accumulator, junction block, anti-icing bottle integral with make up air intake, and three leveling valves.
Air spring	Reservoir	Stamped sheet steel
	Bellows	Fabric reinforced rubber
Compressor	Type	Air cooled, single cylinder, reciprocating
	Make	Delco
	Drive ratio	1.25:1 (comp. pulley: engine)
Normal operating pressures		High pressure to air springs: 220-250 psi Low pressure from air springs: 0 to 15 psi
Leveling valves	Locations	Right and left front, left rear -
	Orifice diameters	Right & left front reservoirs - inlet & exhaust: .020 Left rear reservoir - inlet: .031, exhaust: .042. Balance line: .02
	Dead band	3/8 (design)
Spring rates		Variable

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 1-30-59

MODEL 1200-1600-1800 Series

			283 cu.in. V8 (Standard)	348 cu.in. V8 (Optional)
SUSPENSION FRONT (cont.)				
Spring	Type		Coil	
	Material		High alloy steel	
	Size (coil design height & I.D.; bar length x dia.		10.30x3.802x141.5x.630	10.30x3.802x141.5x.630
	Spring rate (lb. per in.)		275	275
	Rate at wheel (lb. per in.)		196	196
	Design load (lb. @ design height)		1855 @ 10.30	1935 @ 10.30
Stabilizer	Type (link, linkless, frameless)		Link	
	Material & bar diameter		H.r. steel, .6875	
STEERING				
Mechanical (std., opt., NA)			Standard	
Power (std., opt., NA)			Optional	
Wheel diameter			17"	
Turning diameter	Outside front	Wall to wall (l. & r.)	43.6 ft.	
		Curb to curb (l. & r.)	40.8 ft.	
	Inside rear	Wall to wall (l. & r.)	23.2 ft.	
		Curb to curb (l. & r.)	24.5 ft.	
Outside wheel angle with inside wheel at 20°			17°54'	
Mechanical	Gear	Type	Semi-reversible, recirculating ball	
		Make	Saginaw	
		Ratios – Gear	24:1	
		Ratios – Overall	28:1	
	No. wheel turns		5.80	
Power	Type		Hydraulic. Power cylinder in linkage	
	Make		Saginaw	
	Trade name		Power-Touch	
	Gear	Type	Semi-reversible, recirculating ball	
		Ratios – Gear	20:1	
		Ratios – Overall	24:1	
	Pump driven by		Extension of generator shaft	
	Number wheel turns		5.20	
Linkage	Type		Relay	
	Location (front or rear of wheels, other)		Front	
	Drag link (trans. or longit.)		None	
	Tie rods (one or two)		Two	

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 10-30-59

MODEL 1200-1600-1800 Series

			283 cu.in. V-8 (Standard)	348 cu.in. V-8 (Optional)
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'	
	Camber (deg.)		+30' ± 30'	
	Toe-in (outside tread-inches)		1/16 - 1/8	
Steering spindle & joint type			Forged steel with integral brake cyl.mount, detachable st.arm	
Wheel spindle	Diameter	Inner bearing	1.2492-1.2497	
		Outer bearing	.7491-.7496	
	Thread size		3/4-20	
	Bearing type		Ball	
SUSPENSION—REAR				
Type and description			A-link, Upper control arm & bar, lower control arms, coil spring	
Drive and torq. taken through (see page 14)			Upper & lower control arms	
Spring	Type		Coil	
	Material		High alloy steel	
	Size (length x width, coil design height and I.D.; bar length & dia.)		9.55x3.639x139.25x.583	
	Spring rate (lb. per in.)		230	
	Rate at wheel (lb. per in.)		101	
	Design load (lb. at design height)		1560 @ 9.55	
	Mounting insulation type		None	
	If leaf	No. of leaves	None	
		Inserts Type and size	None	
		Inserts Material	None	
		Shackle (comp. or tens.)	None	
Stabilizer	Type (link, linkless, frameless)		None	
	Material		None	
Track bar type			Lateral, frame to rear axle	

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(a) Vehicle Load carried on lower spherical joints, no auxiliary bearings required for steering motion.

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 1-30-59

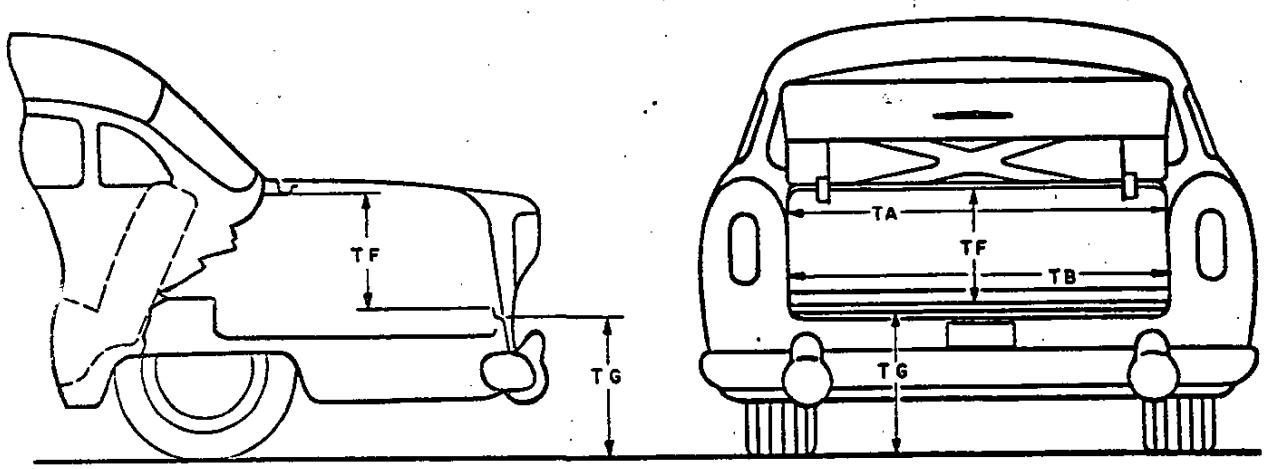
BODY—GENERAL DEFINITIONS

NOTE: Included in the dimension definitions listed on this and the following pages are those which have been adopted by the 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 Sub-Committee 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. Front and rear seat free "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
2. Front and rear seat "B" points are located on seat back 15" from center of body at height of horizontal tangent to top of seat cushion.
3. Front seat is in the full down and normal rearmost position.
4. Loaded position—5 passenger, front 300 lb., rear 450 lb.; includes spare wheel, tire and tools, and full complement of gas, oil, water, and tires to recommended pressure, etc.
5. C/L (centerline).
6. D. L. O. (daylight opening, exposed glass dimension – pages 21, 23 & 25).
7. Ramp breakover angle (page 21) is the supplement of the included ramp angle (180° minus the included ramp angle) over which a car can pass without hanging up.

MODEL 1200-1600-1800 Series V8	4 Door Sedan	4 Door Station Wagon

BODY—TRUNK DIMENSIONS



Usable trunk luggage capacity (see Section H1 of SAE Automotive Drafting Standards)	19.2 cu.ft.(b)	(b)
TA— Width across the top	52.0	–
TB—Width across the bottom	–	–
TF—Vertical dimension at C/L from bottom to top of opening.	7.0	–
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal – loaded)	28.4	–
Position of spare tire stowage	Nearly vertical,rh	Horizontal (a)
Method of holding lid open	Torsion bars,counterbal	2

(a) Vertical in rh sidewall on 9-passenger only.

(b) Overall: Sedans 30.0 cu.ft. Station Wagon 92.0 cu.ft.(rear seat folded)
Sport Coupe 32.0 cu.ft.(with luggage set 20.1)
Convertible 29.5 cu.ft.(with luggage set 19.3)

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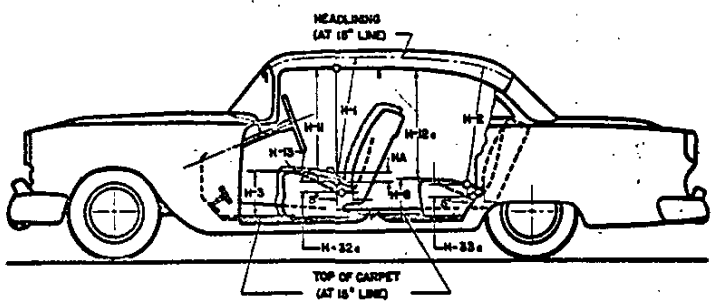
MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 10-16-58

BODY—HEIGHT DIMENSIONS--INTERIOR



MODEL 1200-1600-1800 Series V8	4-Door Sedan	4-Door Station Wagon
H1. Front headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line. (For "A" pt. see note 1, page 19)	36.1	35.8
H2. Rear headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line.	34.3	36.9(a) 34.0(b)
H3. Front cushion height above low point on floor carpet on 15" line (front edge of cushion).	9.2	9.3
H8. Rear cushion height above low point on floor carpet on 15" line (front edge of cushion).	13.8	12.2(a) 16.0(b)
H. Entrance—front—cushion ree "A" point to bottom windcord vertical.	29.3	29.2
H12a. Entrance — rear — top of cushion at vertical tangent to front of rear seat, to bottom of windcord in rear.	28.0	29.5
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance).	5.2	
HA. Front seat maximum vertical rise at free "A" point.	.5	
HF. Front seat maximum vertical rise of free "A" point with multiple-position seat.	1.8	
H32a. Front seat depressed depth — vertical dimension from free "A" point to depressed "A" point.	4.4	
H33a. Rear seat depressed depth — vertical dimension from free "A" point to depressed "A" point.	4.5	4.4(a) 3.5(b)

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(a) Rear seat (all wagons)
(b) Third seat (9-pass.wagon only)

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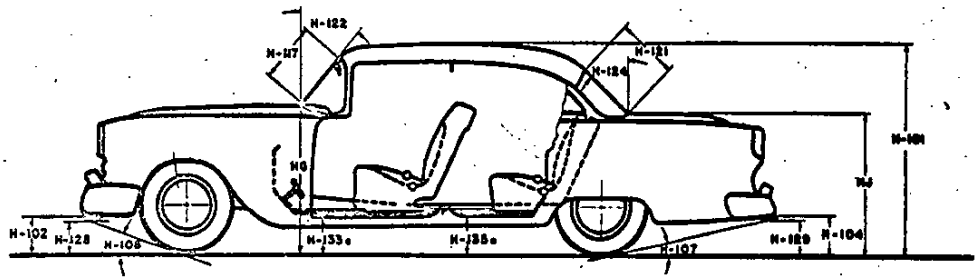
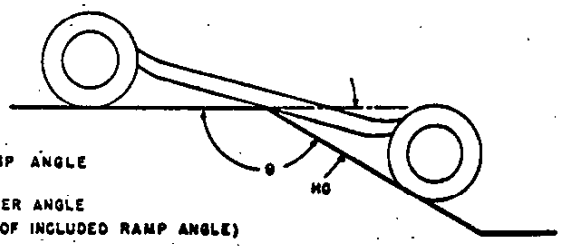
MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 11-30-59

BODY—HEIGHT DIMENSIONS—EXTERIOR





θ - INCLUDED RAMP ANGLE

HC - RAMP BREAKOVER ANGLE
(SUPPLEMENT OF INCLUDED RAMP ANGLE)

MODEL 1200-1600-1800 Series V-8	4-Door Sedan	4-Door Station Wagon
H101. Overall height - loaded.	56.0	56.3
H8. Overall height - curb weight.	58.1	58.4
H102. Front bumper bottom to ground at normal section.	11.9	
H104. Rear bumper bottom to ground at normal section.	15.4	
H106. Angle of appr.-fr. tire static loaded rad. to interfering pt. on fr. bumper, gd., other.	26°	
H107. Angle of dep.-fr. tire static loaded rad. to interfering pt. on rr. bumper, gd., other.	12° 45'	
HC. Ramp breakover angle.*	12° 30'	
H117. Windshield DLO-slant height.	26.6	
H121. Backlight DLO*-max., slant height.	22.7	14.0
H122. Windshield slope angle to vertical line on car axis.	48° 45'	
H124. Backlight slope angle to vertical line on car axis.	59° 0'	25° 0'
H128. Ground to bottom of front bumper guard.	10.8	
H129. Ground to bottom of rear bumper guard.	11.4	
H133a. Bottom of front door to ground, min. dimension - car loaded.	11.7	11.9
H135a. Bottom of rear door to ground, min. dimension - car loaded.	11.5	11.7
HD. Min. road clear. (5 pass. load) & loc.	6.0 (at muffler)	
HE. Min. road clearance at rear axle.	7.3	
HG. Hood at rr. to grd.-vert. dim. excl. molding, fr. hood opening line at cowl (curb wt.)	NA	
HH. Max. ht., fr. grd. frt. of windshield (curb wt.)	NA	
HJ. Max. ht. fr. grd. back of r. window (curb wt.)	NA	

* See Notes, page 19.

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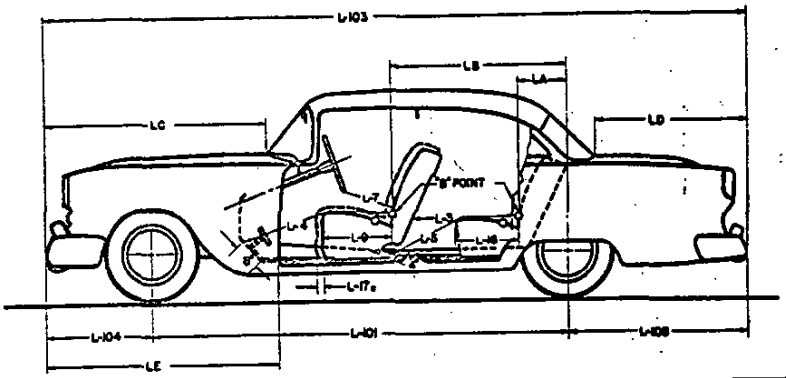
BODY—LENGTH DIMENSIONS



MODEL 1200-1600-1800 Series V8		4 Door Sedan	4 Door Station Wagon
Interior	* L3. Rear compartment of front seat back to rear seat back.	29.2	29.3(a) 34.5(b)
	* L4. Leg room—front—ball of foot to top of seat to seat back--15" line.	45.0	44.8
	* L5. Leg room—rear—from ball of foot to top of seat cushion and to seat back-	42.8	41.7(a) 38.3(b)
	L7. Steering wheel clearance to seat back taken on arc.	14.2	
	* L9. Front seat depth (front edge to vert. tan. to seat back on 15" line).	19.0	18.3
	* L16. Depth of rear seat (front edge to seat back).	18.3	18.6(a) 18.0(b)
	L17a. Total adjustment of front seat at front lower seat frame.	4.7(c)	
	LA. Rear seat "B" point to center line of rear axle.	18.5	18.9(a) 12.6(negative)(b)
	LB. Front seat "B" point to center line of rear axle.	53.7	
	LC. Front of car to base of windshield.	52.8	
	LD. Rear of car to base of rear window or upper structure.	45.4	14.7
	LE. Front of car to front edge of front door.	65.1	
Exterior	L101. Wheelbase.	119.0	
	L103. Overall length (bumper to bumper inc. guards).	210.9	
	L104. Overhang—front including bumper guards.	32.6	
	L105. Overhang—rear including bumper guards.	59.3	

* Dimension taken on 15" line—see notes 1 & 2, page 19.

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(a) Rear seat (all wagons)
(b) Third seat (9-pass. wagon only)
(c) 4.8 on multiple position seat.

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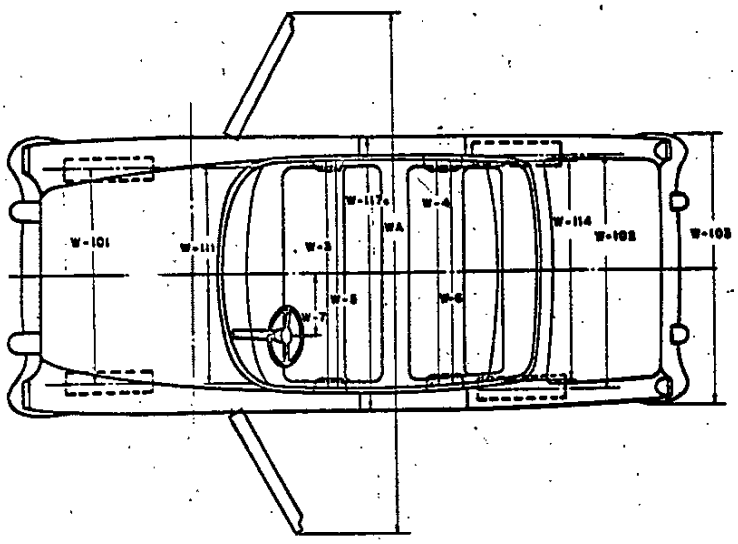
BODY—WIDTH DIMENSIONS



MODEL 1200-1600-1800 Series V8		4-Door Sedan	4-Door Station Wagon
Interior	W3. Front shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	60.5	60.5
	W4. Rear shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	59.7	59.2(a) 57.5(b)
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back.	66.1	66.1
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back.	65.5	66.0(a) 46.5(b)
	W7. Steering wheel center to center 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 including bumpers or mouldings.	79.9	
	WA. Max. overall width of car with doors open.	148.9(front)(c)	148.9(front)(c)
	W111. Windshield DLO, max. width.	64.6	
	W114. Back window DLO, max. width.	61.2	45.4
	W117a. Max. body width at center pillar, less hardware and applied moldings.	79.1	79.0

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(a) Rear seat (all wagons)
(b) Third seat (9-pass. wagon only)
(c) Doors in check position

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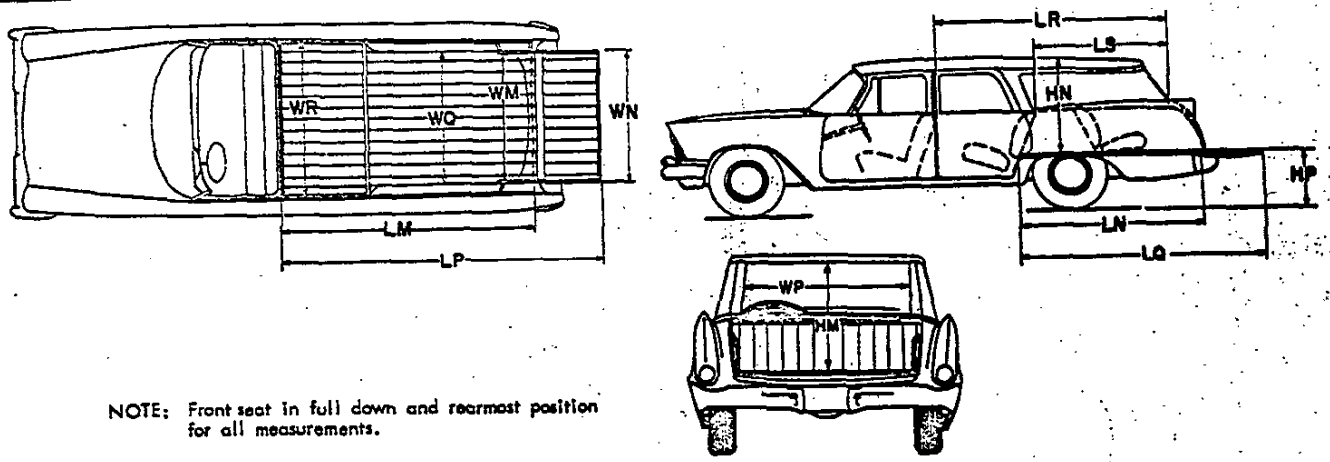
MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 11-30-59

STATION WAGON—CARGO SPACE DIMENSIONS



NOTE: Front seat in full down and rearmost position for all measurements.

MODEL 1200-1600-1800 Series	4-Door Station Wagon
LM Floor length from bottom of front seat to inside of tail gate in raised position.	94.8
LN Floor lgth. from bottom of second seat to inside of tail gate in raised position.	60.0
LP Floor lgth. from bottom of front seat to end of tail gate in lowered position.	120.1
LQ Floor lgth. from bottom of second seat to end of tail gate - tail gate lowered.	85.3
HM Maximum hgth. of rear opening - tail gate lowered.	26.7
WM Rear end opening width at floor.	47.6
WN Rear end opening width at top of tail gate.	46.0
WQ Minimum distance between wheelhouses.	46.4
WP Maximum width of rear opening above raised tail gate.	44.6
WR Maximum width of cargo space at floor.	66.0
LR Cargo horizontal distance from top rear of front seat back to top of tail gate.	84.2
LS Cargo horizontal distance from top rear of second seat back to top of tail gate.	48.2
HN Maximum height of roof above floor at center line of car.	32.1
HP Platform height of end of lowered tail gate - curb weight.	27.5
Third Seat - facing direction.	Rearward (a)

(a) 9-passenger model only

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MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE: ISSUED 7-15-58 REVISED 1-30-59

MODEL 1200-1600-1800 Series V-8

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear) — Front doors	Front
Drs. hinged (front, rear) — Rear doors	Front
Type of finish (lacquer, enamel).	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 ign.lock terminals,key removable in"lock"or"on"pos.only
Vent window control method (crank, friction pivot).	Crank
Windshield type (single curved, compound curved, other)	Single, compound curved
Rear window type (flat, curved, one piece, three piece)	Single curved
Side glass type (curved, flat)	Flat
Windshield glass area D.L.O.	1740.1 (a)
Backlight glass area D.L.O.	(b)
Total glass area D.L.O.	(c)

BODY—TYPES AND STYLE NAMES —

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

BODY STYLES:	CODES	
Biscayne	1211	2-door sedan - 6 passenger
	1219	4-door sedan - 6 passenger
	1221	2-door utility sedan - 3 passenger
	1270	2-door sedan delivery - 1 passenger
El Camino	1280	2-door sedan pickup - 3 passenger
Bel Air	1611	2-door sedan - 6 passenger
	1619	4-door sedan - 6 passenger
	1639	4-door sport sedan - 5 passenger
Impala	1819	4-door sedan - 6 passenger
	1837	2-door sport coupe - 5 passenger
	1839	4-door sport sedan - 5 passenger
	1867	2-door convertible - 5 passenger
Station Wagon	1215	2-door station wagon - 6 passenger (Brookwood)
	1235	4-door station wagon - 6 passenger (Brookwood)
	1635	4-door station wagon - 6 passenger (Parkwood)
	1645	4-door station wagon - 9 passenger (Kingswood)
	1835	4-door station wagon - 6 passenger (Nomad)

(a) Impala sport coupe, sport sedan, convertible: 1711.8
(b) 2-4 door sedans: 1553.7,sport sedan: 1309.1, sport coupe: 1726.8, convertible (plastic): 963.9, station wagons: 623.2, sedan delivery: 579.2, sedan pickup 1034.5
(c) 2-door sedan: 4737.7 (utility sedan: 4722.8), 4-door sedans 4687.1, sport sedan: 4148.6, sport coupe: 4670.1, convertible (includes plastic backlight) 3685.2, 2-door sta.wgn.: 4964.0, 4-door sta. wgn. 4961.7, sedan delivery: 3140.1, sedan pickup: 3465.8.

MAKE OF CAR CHEVROLET MODEL YEAR 1959 DATE. ISSUED 7-15-58 REVISED 2-12-59

MAJOR OPTIONAL ITEMS - WEIGHTS

1200-1600-1800 Series V-8

Model	CURB - WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING * WEIGHT
				Pass. In Front		Pass. In Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
1211- 2-door sedan	1860	1830	3690	32	68			3530
1219- 4-door sedan	1890	1870	3760	32	68			3600
1221- utility sedan	1865	1805	3670	47	53			3490
1270- sedan delivery	1800	1975	3775	47	53%			3635
1280- sedan pickup	1895	1825	3720	47	53%			3580
1611- 2-door sedan	1875	1795	3670	32	68			3510
1619- 4-door sedan	1910	1865	3775	32	68			3615
1639- sport sedan	1915	1875	3790	35	65			3630
1819- 4-door sedan	1915	1865	3780	32	68			3620
1837- sport coupe	1900	1835	3735	37	63			3580
1839- sport sedan	1935	1900	3835	35	65			3670
1867- convertible	1950	1860	3810	37	63			3650
1215- 2-door sta. wagon	1820	2180	4000	32	68			3860
1235- 4-door sta. wagon	1845	2255	4100	32	68			3955
1635- 4-door sta. wagon	1860	2250	4110	32	68			3970
1645- 4-door sta. wagon	1845	2320	4165	17	83			4015
1835- 4-door sta. wagon	1865	2250	4115	32	68			3975
% Plus 100% of payload.								

Accessories & Equipment Differential Weights				Remarks
Air conditioning			+ 150	
Brakes, power			+ 15	All vehicle and equipment
Engine, 348 cu. in. V8			+ 145	weights are production weights.
Fuel Injection			+ 46	Equipment weights are average.
Heater, air flow			+ 24	
Heater, recirculating			+ 18	
Radio & ant., manual			+ 9	
Radio & ant. pushbutton			+ 12	
Seat, power			+ 19	
Steering, power			+ 22	
Suspension, air			+ 23	
Trans., 4-speed			+ 18	
Trans. - Overdrive			+ 42	
Trans. - Powerglide			+ 106	
Trans. - Turboglide			+ 24	
Windows, power			+ 9	

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

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