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|

CHEVROLET



1953 Chevrolet, Bel Air four-door sedan, 6-cyl (AA)

1953

Passenger Car
CHEVROLET
1953
SPECIFICATIONS

ISSUED TO

**Prepared
by**
ENGINEERING DEPARTMENT—TECHNICAL DATA GROUP
CHEVROLET—CENTRAL OFFICE
DIVISION OF GENERAL MOTORS CORPORATION
DETROIT 2, MICHIGAN
Lithographed in U.S.A.



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INTRODUCTION

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 1953 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, trucks, and school bus chassis 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 or 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.

As in 1952, this book is in two parts -- one for passenger cars with a supplement for vehicles equipped with automatic transmission and one for trucks.

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.

CONTINUED

INTRODUCTION—Continued

DIMENSIONS...

The dimensions shown are of three types:

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

Type #2. Those dimensions where accuracy of fit is of less importance, as in structural members such as frame parts, I-beam axles, or in fuel tanks; also, dimensions for the purpose of identification, such as cylinder bore, or diameter of the wheel cylinder piston, where dimensions are expressed in fractions or integers with fractions and to which fairly large tolerances ($\pm 1/64$, $\pm 1/32$, $\pm 1/16$) are applied.

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

In this book, the dimensions of type #1 are quoted with limits exactly as on the drawings while the dimensions of 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 table of contents lists the subjects in the order in which they occur. The subject headings are reprinted at the bottom of each page beside the page number. The index lists the details covered by the subject headings.

To provide for reorganizing or incorporating additional information without disturbing the page number sequence, blocks of numbers are assigned to the ends of the passenger and truck sections.

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: •, x, †, †, *, -. 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
Technical Data Department
Room 106, Curtis Building
Detroit 2, Michigan
OR CALL
TRinity 2-4600, Extension 8662

ABBREVIATIONS AND SYMBOLS

ABBREVIATIONS

AC ----- AC Spark Plug Division
 act ----- acting
 adj ----- adjustment
 amp ----- ampere
 approx ----- approximately
 assy (assys) ----- assembly
 aux ----- auxiliary
 avg ----- average

bar. ----- barometric
 BC ----- bottom center
 brg ----- bearing
 BTC ----- before top center
 bush. ----- bushing

cap. ----- capacity
 COE ----- cab-over-engine
 col ----- column
 com ----- commercial
 comp. ----- compression
 conn ----- connecting
 conv ----- conventional
 COPO ----- Central
 Office Production Order
 cp ----- candle power
 cu ft ----- cubic feet
 cu. in. ----- cubic inches
 cyl ----- cylinder

dbl ----- double
 DLO ----- daylight opening
 dia ----- diameter
 dimen ----- dimension
 displ ----- displacement
 DR ----- double row
 distr ----- distributor
 ea ----- each
 eff ----- effective
 eng ----- engine
 equip ----- equipment
 ext ----- exterior

F ----- Fahrenheit
 F (weights) ----- front
 fr ----- front
 ft ----- feet
 ft lb ----- foot pounds
 ft/mi ----- feet per mile

gal ----- gallon
 gen ----- generator
 GM ----- General Motors

gov ----- governor
 GVW ----- gross vehicle weight

HD ----- heavy duty
 Hg ----- mercury
 HP ----- horsepower
 HR ----- hot rolled
 hr ----- hour
 Hy ----- Hyatt

ID ----- inside diameter
 i. e. ----- that is
 in. ----- inches
 in³ ----- inches cubed
 in⁴ ----- inches to fourth power
 incl ----- included
 instr ----- instrument

lb (lbs) ----- pounds
 LH ----- left hand

matl ----- material
 max ----- maximum
 mbrs ----- members
 mf ----- microfarads
 mi ----- mile
 min ----- minute & minimum
 mm ----- millimeter
 mod ----- modulus
 MPH ----- miles per hour

ND ----- New Departure
 neg ----- negative
 No. (no.) ----- number

OD ----- outside diameter
 oz ----- ounce

pass. ----- passenger
 pc ----- piece
 PD ----- pitch diameter
 pr ----- ply rating
 press. ----- pressure
 proj ----- projected
 prop. ----- propeller
 PSI ----- pounds per square inch
 pt ----- pint

qt ----- quart

R ----- Roller
 R (weights) ----- rear

rad ----- radiator
 reg ----- regulator & regular
 ret ----- retaining
 rev ----- revolutions & reverse
 rev/mile ----- revolutions per mile
 RH ----- right hand
 RPM ----- revolutions per minute
 RPO ----- regular production option
 rr ----- rear

SAE ----- Society
 of Automotive Engineers
 Sag. ----- Saginaw
 SFE ----- Society of Fuse Engineers
 sq ----- square
 sq. in. ----- square inches
 SR ----- single row
 st ----- stainless
 stl ----- steel
 strg ----- steering

Tim ----- Timken
 TC ----- top center
 trans ----- transmission

U.S. ----- United States Rubber Co.

Var ----- Various


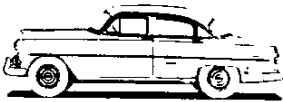










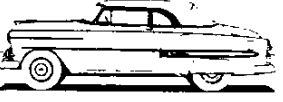




w ----- watt
 w/s ----- windshield
 wt ----- weight

SYMBOLS

----- pounds, number
 + ----- plus
 - ----- minus
 & ----- and
 x ----- by, times
 : ----- to (ratio)
 - ----- to (range)
 / ----- per
 % ----- per cent
 £ ----- centerline
 ° ----- degrees
 ' ----- minutes
 " ----- seconds, inches
 ÷ ----- divided by
 @ ----- at

PASSENGER CARS

MODEL IDENTIFICATION

| Name and Description | One-Fifty - Series 1500 | Two-Ten - Series 2100 | Bel Air - Series 2400 |
|---|---|--|---|
| 4-DOOR SEDAN 6-passenger, 5-window sedan with luggage compartment in rear |  |  |  |
| MODEL | 1503; 53-1269 * | 2103; 53-1069W * | 2403; 53-1069WD * |
| 2-DOOR SEDAN 6-passenger, 5-window sedan with luggage compartment in rear |  |  |  |
| MODEL | 1502; 53-1211 * | 2102; 53-1011W * | 2402; 53-1011WD * |
| CLUB COUPE 6-passenger, 2-door, 5-window coupe with luggage compartment in rear |  |  | |
| MODEL | 1524; 53-1227 * | 2124; 53-1027 * | |
| BUSINESS COUPE 3-passenger, 2-door, 5-window coupe with luggage compartments behind seat and in rear |  | | |
| MODEL | 1504; 53-1227B * | | |
| SPORT COUPE 6-passenger, 2-door, 5-window coupe with hardtop; luggage compartment in rear | |  |  |
| MODEL | | 2154; 53-1037 * | 2454; 53-1037D * |
| CONVERTIBLE 5-passenger, 2-door, 5-window coupe with folding top; luggage compartment in rear | |  |  |
| MODEL | | 2134; 53-1067TX * | 2434; 53-1067DTX * |
| STATION WAGON (HANDYMAN) 6-passenger, 4-door, 7-window, all-steel body with drop and lift gates in rear |  |  | |
| MODEL | 1509; 53-1262F * | 2109; 53-1062F * | |
| STATION WAGON (TOWNSMAN) 8-passenger, 4-door, 7-window, all-steel body with drop and lift gates in rear | |  | |
| MODEL | | 2119; 53-1062 * | |
| SEDAN DELIVERY 2-passenger, 3-door, 3-window panel delivery |  | | |
| MODEL | 1508; 53-1271 * | | |

* - Fisher Body style number

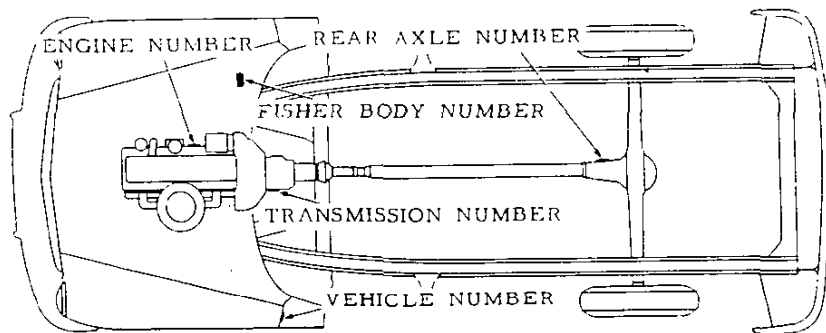
3-16-53

8 - MODEL IDENTIFICATION

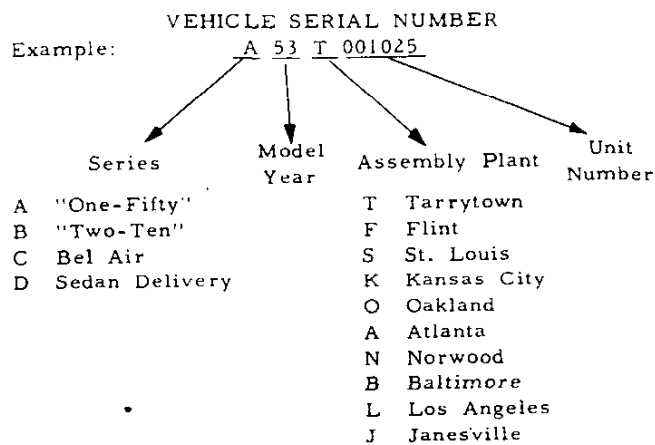
CHEVROLET 1953 SPECIFICATIONS—PASSENGER

SERIAL NUMBERS

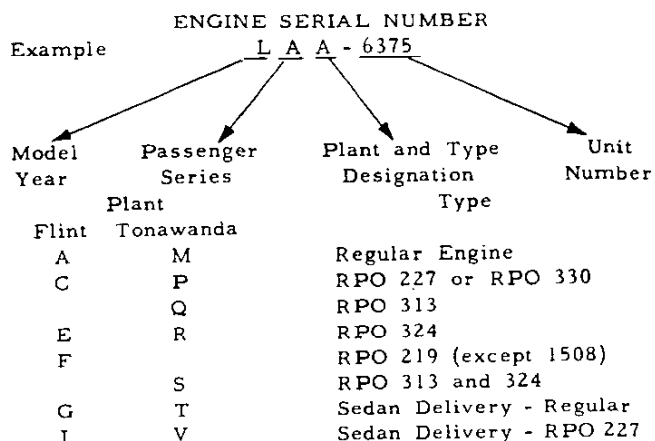
SERIAL NUMBER LOCATIONS
(See descriptions below.)



Note: Serial numbers except body number were obtained from Standards Department.



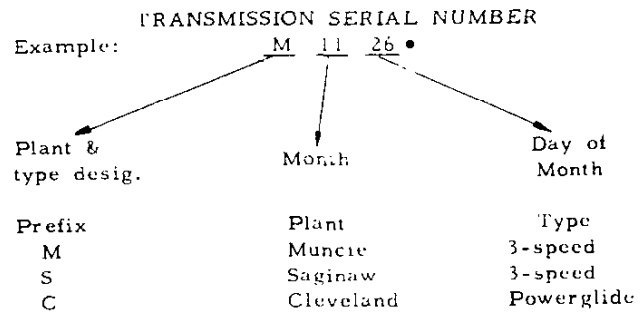
Starting unit number ----- 1001 and up, at each assembly plant regardless of series.
Location ----- Stamped on plate attached to left front body hinge pillar.



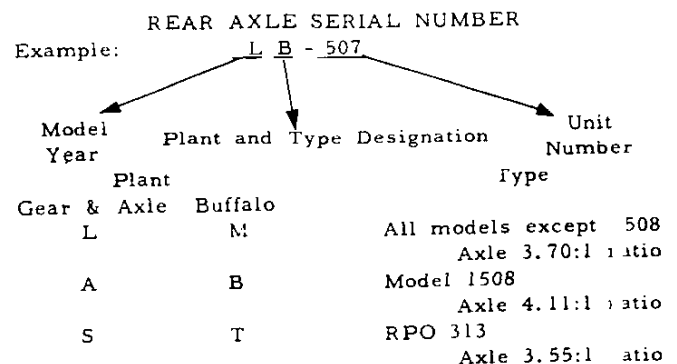
Starting unit number ----- 1001 and up, at each engine plant
Location ----- Stamped on right hand side of cylinder block to rear of distributor.

3-16-53. Revised: 7-1-53, • - Serial numbers changes effective 7-1-53.

CHEVROLET 1953 SPECIFICATIONS—PASSENGER



To identify heavy duty 3-speed transmission the letter "H" will be used as a suffix to production date.
Location ----- Conventional; stamped on left side of case at front edge of cover. Powerglide; on rear face of case.



Unit number ----- The first one or two digits represent the month; the last two, the day of the month.
Location ----- Stamped on front, right side of differential carrier

FISHER BODY NUMBER
Description ----- Consists of separate numbers and symbols for body style, body number, trim type, and paint combination. Controlled by body source.
Location ----- Stamped on plate on right hand shoulder of cowl, under the hood.

SERIAL NUMBERS - 9

VEHICLE WEIGHTS

1500 Series

| Vehicle Type | | Shipping | | | Curb | | | Loaded | | |
|--------------|--------------------------|----------|-------|------|-------|-------|------|--------|-------|------|
| Model | Description | Total | Front | Rear | Total | Front | Rear | Total | Front | Rear |
| 1502 | 2-Door Sedan | 3160 | 1745 | 1415 | 3290 | 1770 | 1520 | 4190 | 2095 | 2095 |
| 1503 | 4-Door Sedan | 3205 | 1765 | 1440 | 3335 | 1790 | 1545 | 4235 | 2115 | 2120 |
| 1504 | Business Coupe | 3125 | 1745 | 1380 | 3255 | 1770 | 1485 | 3705 | 2020 | 1685 |
| 1508 | Sedan Delivery | 3160 | 1690 | 1470 | 3290 | 1715 | 1575 | 4000 | 1725 | 2275 |
| 1509 | Station Wagon (Handyman) | 3450 | 1745 | 1705 | 3580 | 1770 | 1810 | 4480 | 2070 | 2410 |
| 1524 | Club Coupe | 3135 | 1755 | 1380 | 3265 | 1780 | 1485 | 4165 | 2130 | 2035 |

2100 Series

| | | | | | | | | | | |
|------|----------------------------|------|------|------|------|------|------|------|------|------|
| 2102 | 2-Door Sedan | 3180 | 1750 | 1430 | 3310 | 1775 | 1535 | 4210 | 2100 | 2110 |
| 2103 | 4-Door Sedan | 3225 | 1765 | 1460 | 3355 | 1790 | 1565 | 4255 | 2115 | 2140 |
| 2109 | Station Wagon (Handyman) | 3475 | 1755 | 1720 | 3605 | 1780 | 1825 | 4505 | 2080 | 2425 |
| 2119 | Station Wagon (Townsmen) ⊕ | 3590 | 1745 | 1845 | 3720 | 1770 | 1950 | 4920 | 2010 | 2910 |
| 2124 | Club Coupe | 3170 | 1760 | 1410 | 3300 | 1785 | 1515 | 4200 | 2135 | 2065 |
| 2134 | Convertible | 3410 | 1855 | 1555 | 3540 | 1880 | 1660 | 4290 | 2180 | 2110 |
| 2154 | Sport Coupe | 3280 | 1800 | 1480 | 3410 | 1825 | 1585 | 4310 | 2160 | 2150 |

2400 Series

| | | | | | | | | | | |
|------|--------------|------|------|------|------|------|------|------|------|------|
| 2402 | 2-Door Sedan | 3215 | 1765 | 1450 | 3345 | 1790 | 1555 | 4245 | 2115 | 2130 |
| 2403 | 4-Door Sedan | 3250 | 1770 | 1480 | 3380 | 1795 | 1585 | 4280 | 2120 | 2160 |
| 2434 | Convertible | 3440 | 1860 | 1580 | 3570 | 1885 | 1685 | 4320 | 2185 | 2135 |
| 2454 | Sport Coupe | 3295 | 1800 | 1495 | 3425 | 1825 | 1600 | 4325 | 2160 | 2165 |

⊕ - All models are equipped with 6.70-15-4pr tires except Townsmen Station Wagon which is equipped with 6.70-15-6pr tires.

SHIPPING WEIGHT: This is the weight of the basic vehicle with all regular equipment and with grease and oil wherever required. It does not include the weight of gasoline and water.

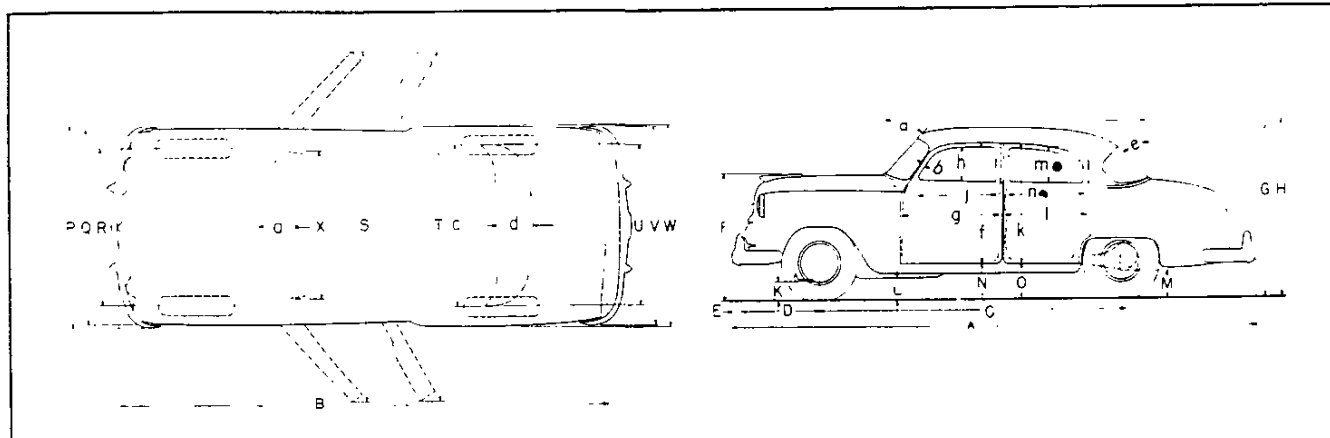
CURB WEIGHT: This is the weight of the empty vehicle ready to drive. It is the shipping weight plus the weights of gasoline (99 pounds) and water (31 pounds).

LOADED WEIGHT: This is the curb weight of the basic vehicle plus 150 pounds for each passenger.

PERFORMANCE WEIGHT: This is the curb weight of the lowest price 4-Door Sedan with regular equipment plus 600 pounds for passengers. A representative example is:

Model 1503----- 3935

EXTERIOR DIMENSIONS



| DESCRIPTION | | KEY | 1502 | 1503 | 1509 | 2119 | 1524 | 1504 | 2134 | 2154 | 1508 | |
|------------------|----------------------------|-----|----------|--------|---------|--------|----------|--------|--------|---------|--------|--|
| | | | 2102 | 2103 | 2109 | | 2124 | 2434 | 2454 | | | |
| Vehicle length | Overall | A | 195-1/2 | | 197-7/8 | | 195-1/2 | | | 195-1/4 | | |
| | Grille to rear of body | B | 184-1/2 | | 186-5/8 | | 184-1/2 | | | | | |
| | Wheelbase | C | 115 | | | | | | | | | |
| | Grille to front wheel | D | 29-3/8 | | | | | | | | | |
| | Grille to bumper guard fr. | E | 3-1/4 | | | | | | | | | |
| Vehicle height | Over ornament, loaded | F* | 45-3/4 | | | | | | | | | |
| | Over roof, loaded | G# | 63-1/8 | 67-1/8 | 66-1/4 | 63-1/4 | 61-3/4 ∅ | | 65 | | | |
| | Over roof, no load | H∅ | 64-7/8 | 68-7/8 | 64-3/4 | 64-1/4 | 63-1/2 ∅ | | 67-1/8 | | | |
| Road clearance | Under stab. link bracket | K∅ | 7-1/4 | | | | | | | | | |
| | Under exhaust pipe | L∅ | 7 | | | | | | | | | |
| | Under rear axle center | M∅ | 8 | | | | | | | | | |
| Door step height | Front door, no load | N∅ | 15-3/4 | 16 | 15-7/8 | 15-3/4 | | 15-1/2 | | 15-7/8 | | |
| | Rear door, no load | O∅ | 16 | 16-3/8 | 16-1/4 | | | | | | | |
| Vehicle width | Over front bumper | P | 74 | | | | | | | | | |
| | Over front fenders | Q | 71-1/2 | | | | | | | | | |
| | Front wheel tread | R | 56-11/16 | | | | | | | | | |
| | Over front doors, open | S | 151 | 140 | | | | 151 | | 140 | | |
| | Over rear doors, open | T | | | 129 | | | | | | | |
| | Rear wheel tread | U | 58-3/4 | | | | | | | | | |
| | Over rear bumpers | V | 73-3/4 | | | | | | | | | |
| Wind-shield | Over body maximum | W | 75 | | | | | | | | | |
| | Width | X | 50-5/8 | | | | | | | | | |
| | Slope angle | a | 43.5° | | 44.1° | | 43.5° | | | | | |
| | Height on slope | a' | 15-3/4 | | 17-3/4 | | 15-3/4 | | 14-1/4 | | 15-3/4 | |
| Rear window | Corner post on diagonal | b | | | 3-1/8 | | 2-7/8 | | 3-1/8 | | | |
| | Width | c§ | 55-1/2 | | 44-1/2 | | 47 | | 44 | | 58 | |
| | Height on slope | d§ | 15 | | 12-1/2 | | 15 | | 14-1/2 | | 14-1/4 | |
| Front door | Slope angle | e# | 45.5° | | 23.5° | | 46.8° | | 49.4° | | 48.7° | |
| | Opening height | f | 43-3/4 | | 45-7/8 | | 43-3/4 | | 42 | | 43-3/4 | |
| | Opening width | g | 44-3/8 | | 36-7/8 | | 44-3/8 | | 36-7/8 | | | |
| | Window DLO height | h | 12-7/8 | | 12-3/4 | | 14 | | 12-7/8 | | 12 | |
| Rear side door | Window DLO width | j | 35-3/8 | | 28-5/8 | | 27-3/4 | | 35-3/8 | | 35-1/2 | |
| | Opening height | k | 42-7/8 | | 46 | | | | | | | |
| | Opening width | l | 31 | | 31-1/4 | | | | | | | |
| Rear quarter | Window DLO height | m | 12-1/4 | | 14-1/2 | | | | | | | |
| | Window DLO width | n | 27-1/4 | | 28-1/8 | | | | | | | |
| | Window DLO height | m* | 12-1/8 | | 33-1/4 | | 11-5/8 | | | | | |
| | Window DLO width | n* | 28-1/8 | | 13-5/8 | | 20-3/8 | | 17-5/8 | | | |

* - Under design load conditions

∅ - At curb weight

∅ - Road clearance based on static conditions of tires and springs under design load

§ - 1502-03 is 47 x 15

- 1502-03-24 is 46.5°

DLO - Daylight opening

∅ - Convertible height, top down: 60-7/8 no load, 59-1/8 loaded

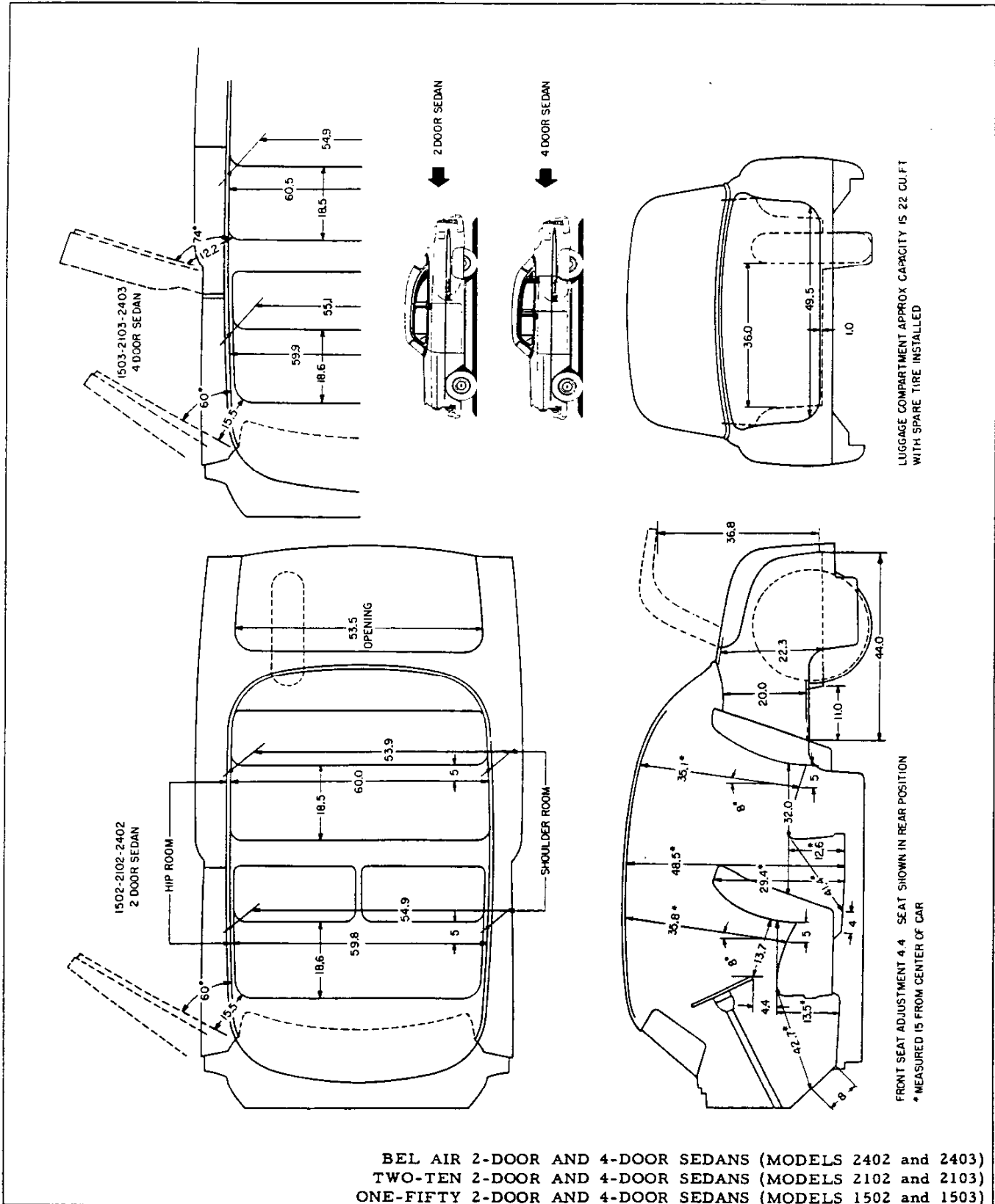
3-16-53. Revised: 7-1-53. • - m' and n' removed from drawing.

CHEVROLET 1953 SPECIFICATIONS—PASSENGER

EXTERIOR DIMENSIONS - 11

BODY INTERIOR DIMENSIONS

Trim and hardware differences between One-Fifty, Two-Ten and Bel Air models are not considered in these dimensions. However, these differences are never greater than 5/8.



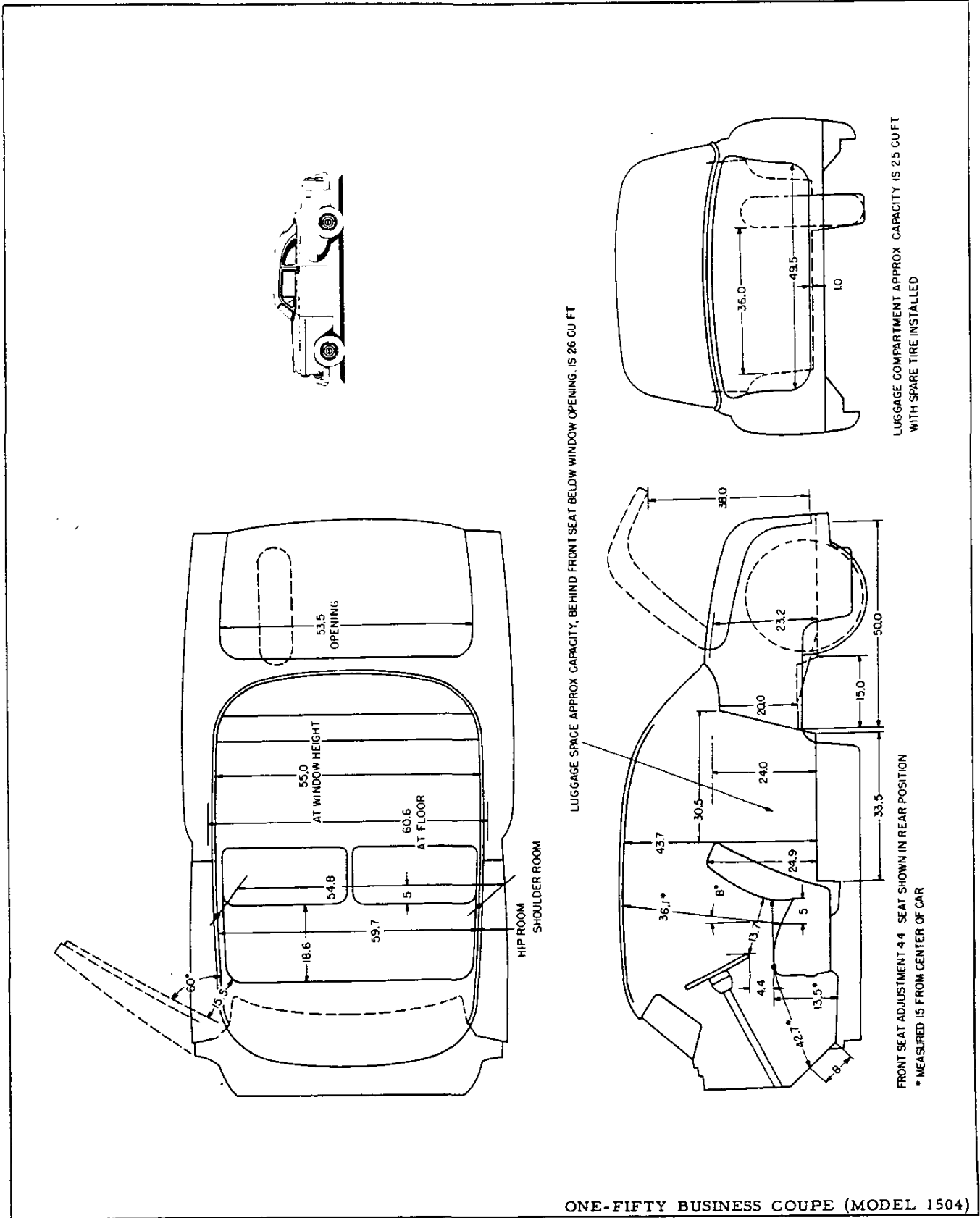
LUGGAGE COMPARTMENT APPROX CAPACITY IS 22 CU.FT WITH SPARE TIRE INSTALLED

FRONT SEAT ADJUSTMENT 4.4 SEAT SHOWN IN REAR POSITION * MEASURED 15 FROM CENTER OF CAR

BEL AIR 2-DOOR AND 4-DOOR SEDANS (MODELS 2402 and 2403)
 TWO-TEN 2-DOOR AND 4-DOOR SEDANS (MODELS 2102 and 2103)
 ONE-FIFTY 2-DOOR AND 4-DOOR SEDANS (MODELS 1502 and 1503)

CONTINUED

BODY INTERIOR DIMENSIONS—Continued

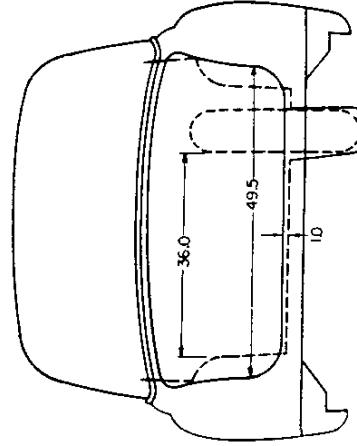


ONE-FIFTY BUSINESS COUPE (MODEL 1504)

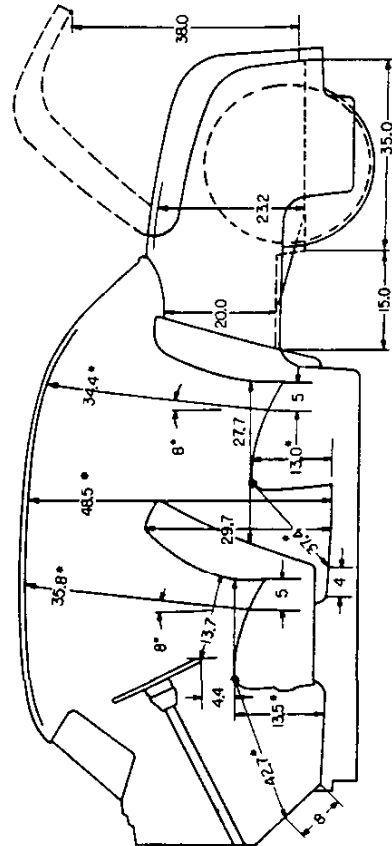
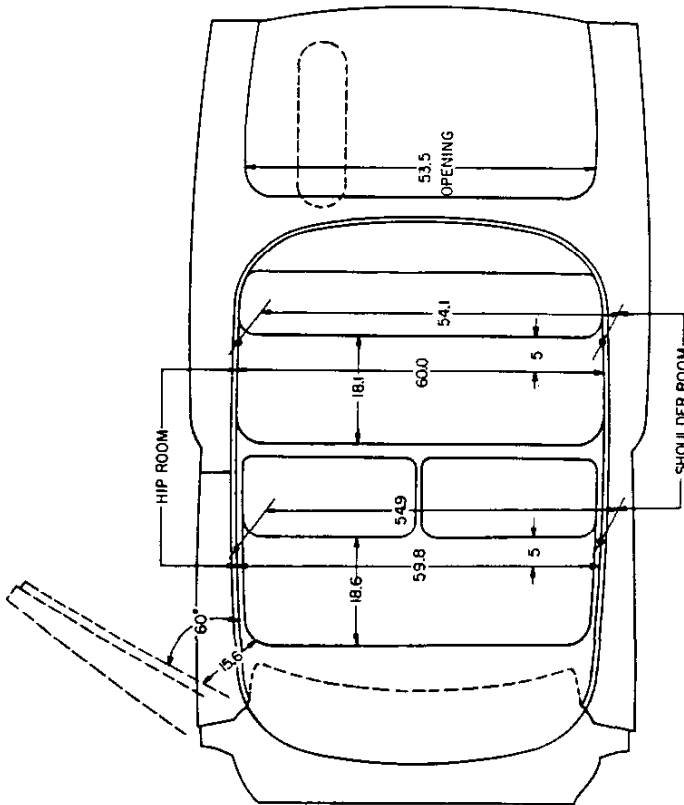
CONTINUED

BODY INTERIOR DIMENSIONS—Continued

Trim and hardware differences between One-Fifty and Two-Ten models are not considered in these dimensions. However, these differences are never greater than 5/8.



LUGGAGE COMPARTMENT APPROX CAPACITY IS 25 CU FT WITH SPARE TIRE INSTALLED



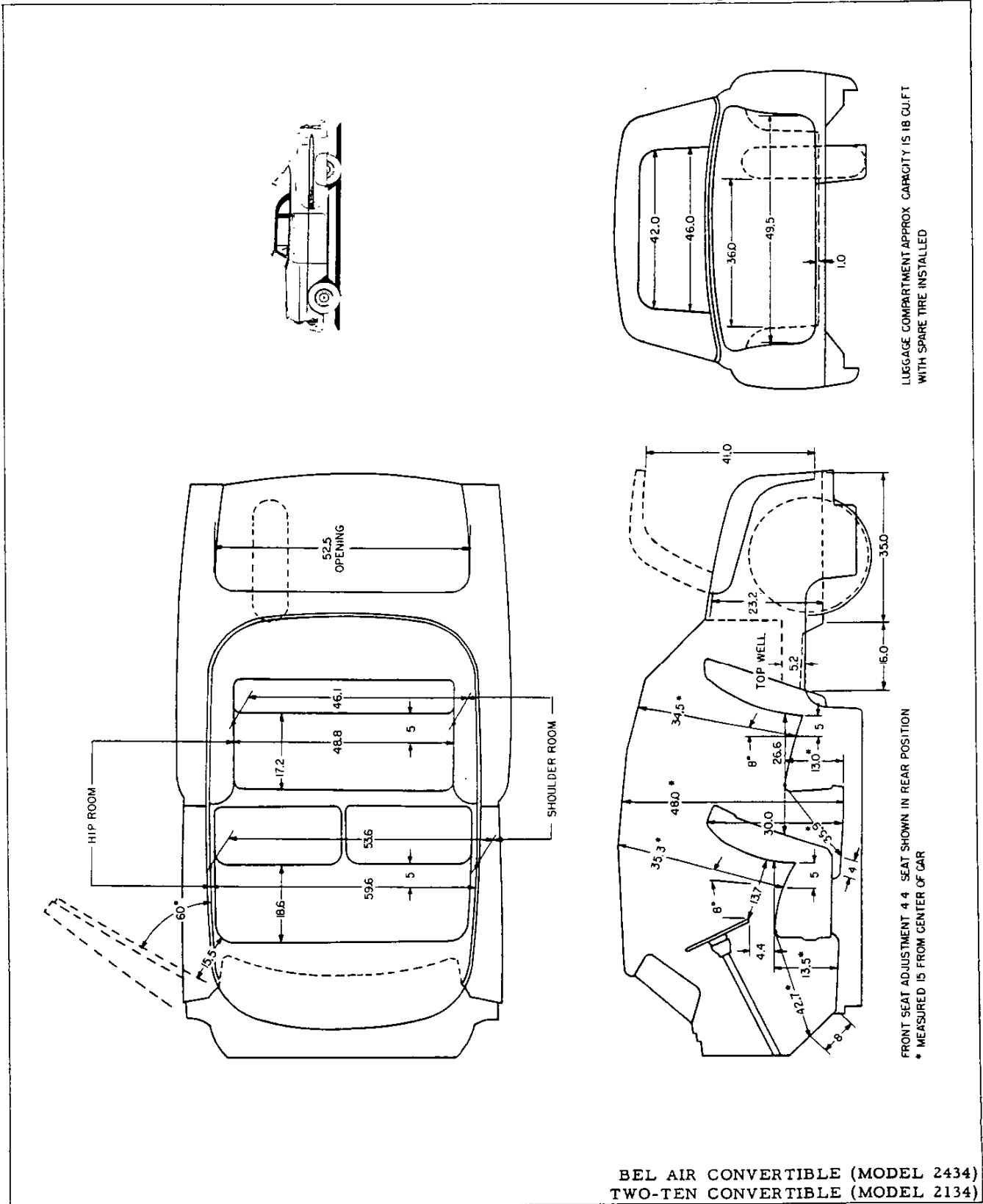
FRONT SEAT ADJUSTMENT 4 4 SEAT SHOWN IN REAR POSITION
* MEASURED 15 FROM CENTER OF CAR

TWO-TEN CLUB COUPE (MODEL 2124)
ONE-FIFTY CLUB COUPE (MODEL 1524)

CONTINUED

BODY INTERIOR DIMENSIONS—Continued

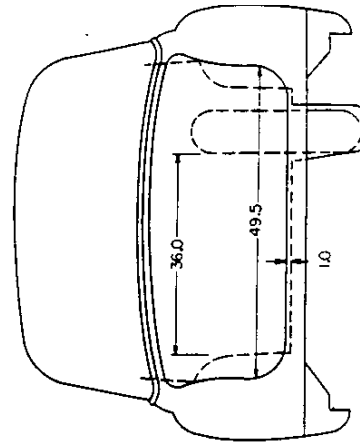
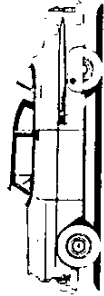
Trim and hardware differences between Two-Ten and Bel Air models are not considered in these dimensions. However, these differences are never greater than 5/8.



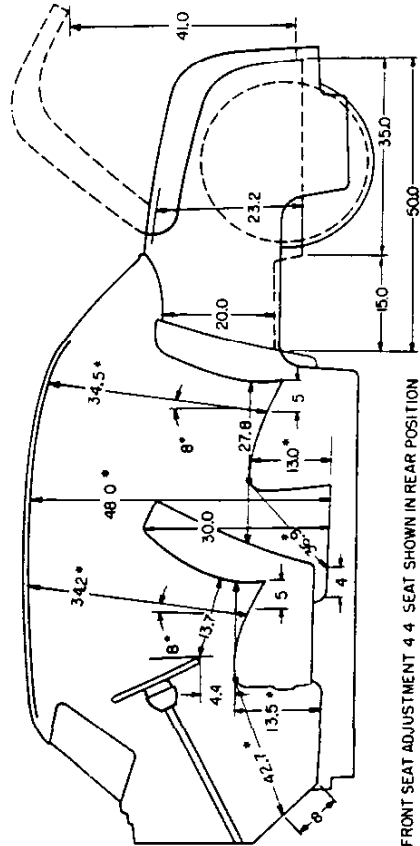
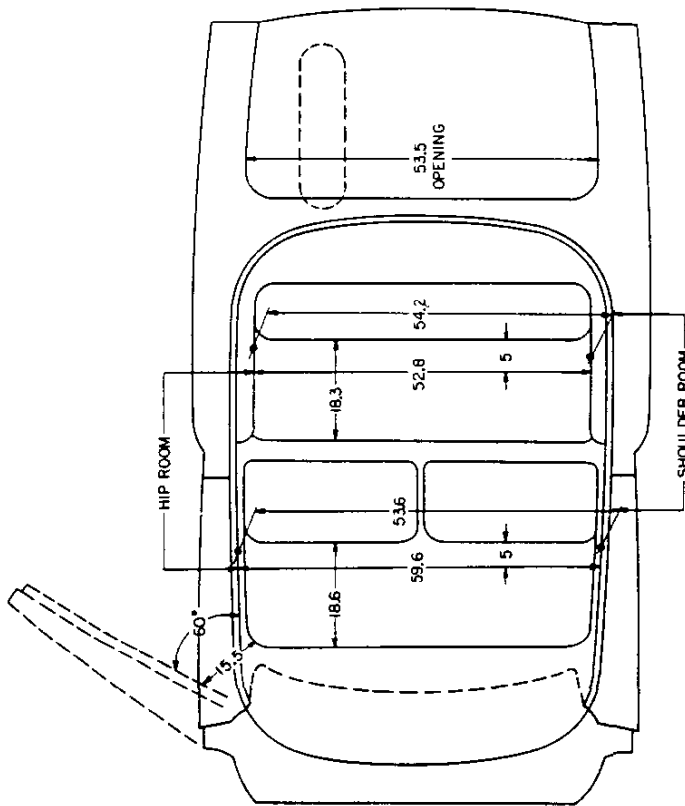
BEL AIR CONVERTIBLE (MODEL 2434)
TWO-TEN CONVERTIBLE (MODEL 2134)

CONTINUED

BODY INTERIOR DIMENSIONS—Continued



LUGGAGE COMPARTMENT APPROX CAPACITY IS 25 CU FT
WITH SPARE TIRE INSTALLED



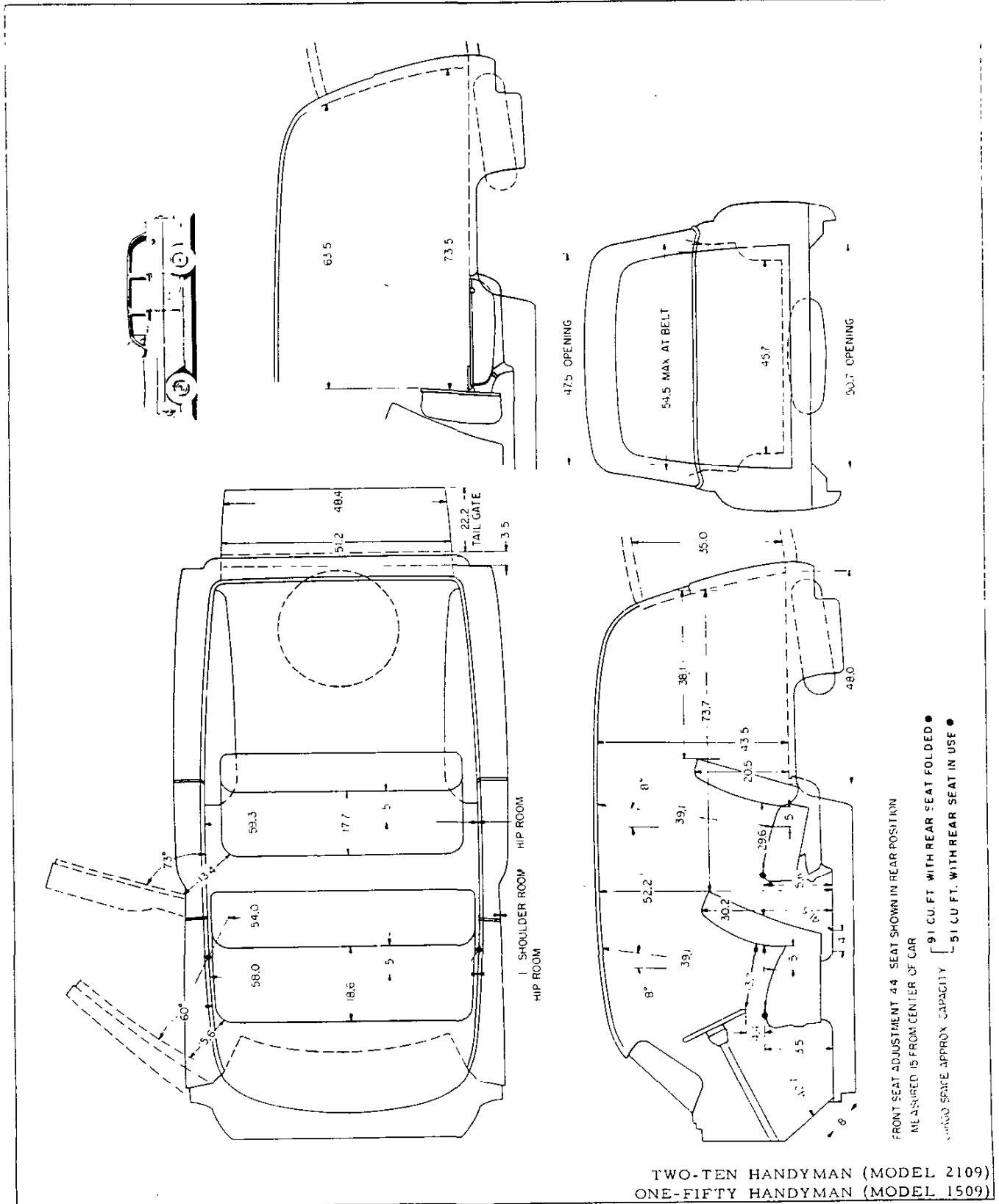
FRONT SEAT ADJUSTMENT 4 SEAT SHOWN IN REAR POSITION
* MEASURED 15" FROM CENTER OF CAR

BEL AIR SPORT COUPE (MODEL 2454)
TWO-TEN SPORT COUPE (MODEL 2154)

CONTINUED

BODY INTERIOR DIMENSIONS—Continued

Trim and hardware differences between One-Fifty and Two-Ten models are not considered in these dimensions. However, these differences are never greater than 5/8.

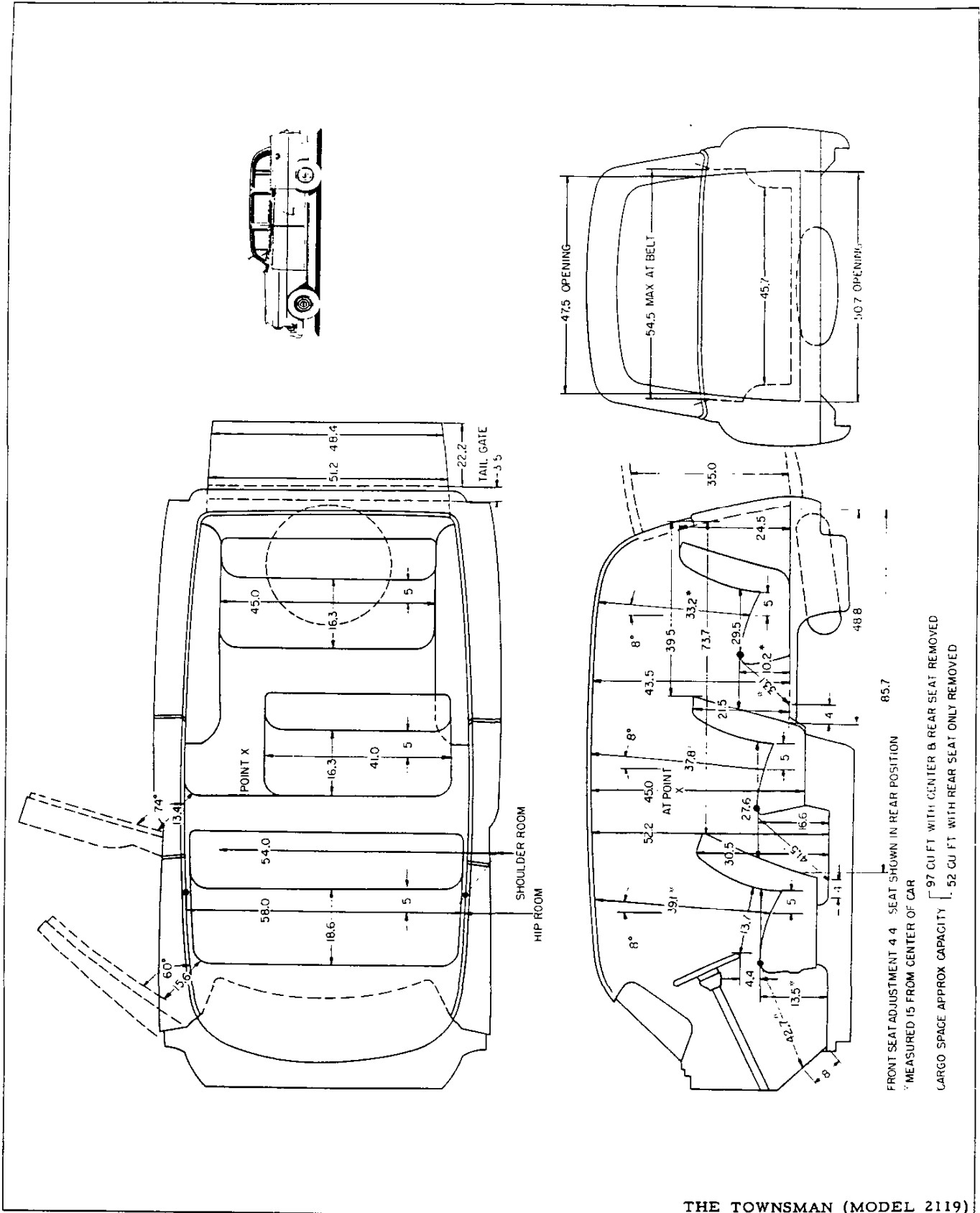


FRONT SEAT ADJUSTMENT 4.4 SEAT SHOWN IN REAR POSITION
 MEASURED 15 FROM CENTER OF CAR
 APPROX SEAT CAPACITY [91 CU. FT. WITH REAR SEAT FOLDED •
 51 CU. FT. WITH REAR SEAT IN USE •

TWO-TEN HANDYMAN (MODEL 2109)
 ONE-FIFTY HANDYMAN (MODEL 1509)

CONTINUED

BODY INTERIOR DIMENSIONS—Continued

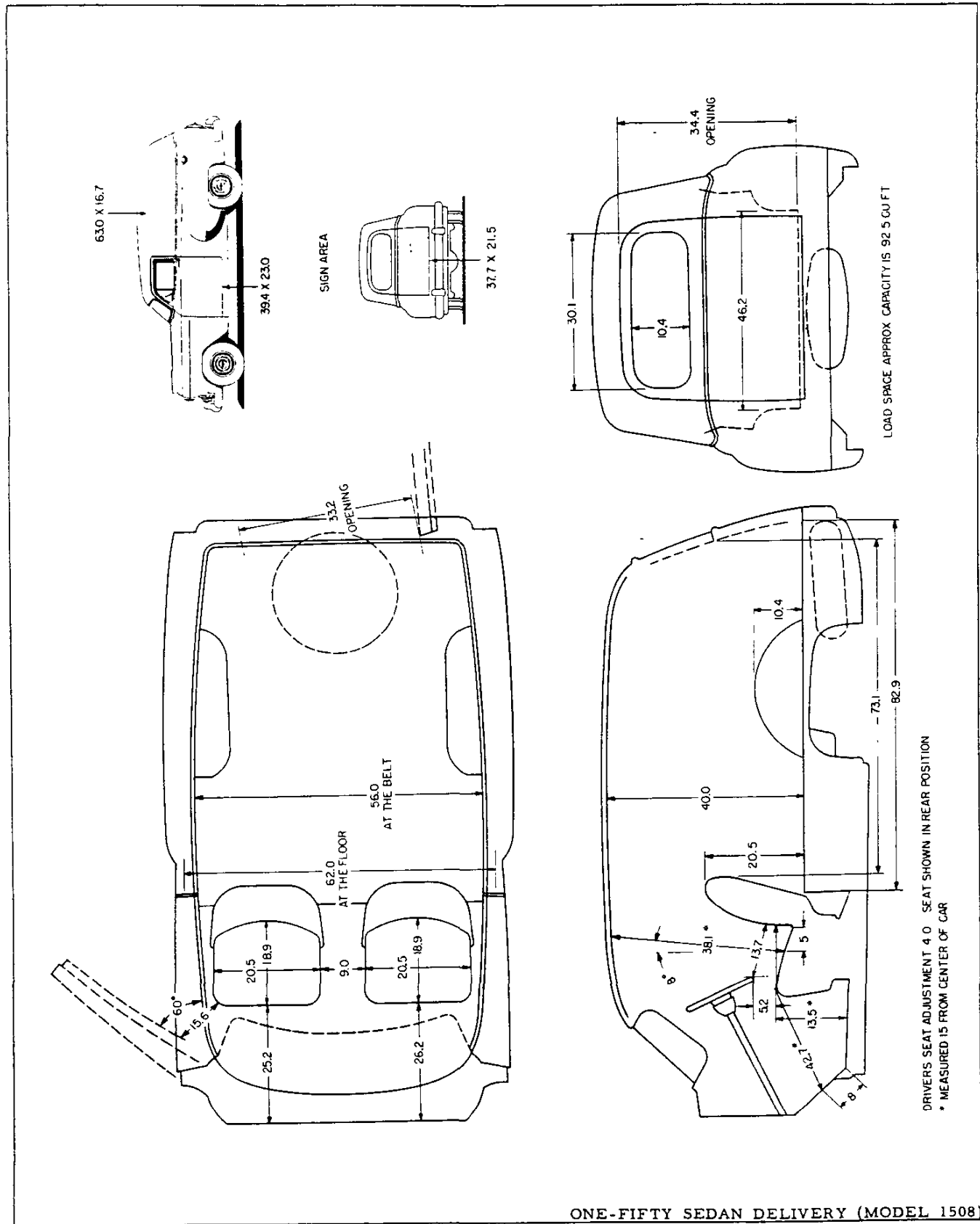


FRONT SEAT ADJUSTMENT 4.4 SEAT SHOWN IN REAR POSITION
 * MEASURED 15 FROM CENTER OF CAR
 CARGO SPACE APPROX CAPACITY 97 CU FT WITH CENTER B REAR SEAT REMOVED
 52 CU FT WITH REAR SEAT ONLY REMOVED

THE TOWNSMAN (MODEL 2119)

CONTINUED

BODY INTERIOR DIMENSIONS—Continued



ONE-FIFTY SEDAN DELIVERY (MODEL 1508)

EXTERIOR-INTERIOR COLOR COMBINATIONS

| Upper Body | Lower body, Sheet metal, (and Wheels on Series 1500 and 2100) | Wheel Stripes | Inst. panel upper, Garnish moldings, Lock buttons, Steering wheel rim and cap | Inst. panel lower, Steering wheel spokes, Steering column, Gearshift shaft and lever | Trim Combination |
|----------------|---|---------------|---|--|------------------|
| Onyx Black | Onyx Black | Argent Silver | Dusk Gray † | Driftwood Gray | Gray |
| | | | Target Red | Driftwood Gray | Red & Gray |
| | | | Onyx Black | Driftwood Gray | Black & White |
| | | | Dusk Gray | Dusk Gray | Gray |
| Horizon Blue | Horizon Blue | Onyx Black | Regatta Blue | Horizon Blue | Blue |
| | | | Dusk Gray | Dusk Gray | Gray |
| Regatta Blue | Regatta Blue | Argent Silver | Regatta Blue | Horizon Blue | Blue |
| | | | Dusk Gray | Dusk Gray | Gray |
| Surf Green | Surf Green | Onyx Black | Woodland Green § | Surf Green | Green |
| | | | Dusk Gray | Dusk Gray | Gray |
| | | | Dusk Gray | Dusk Gray | Beige & Black |
| Woodland Green | Woodland Green | Argent Silver | Woodland Green § | Woodland Green | Green |
| | | | Dusk Gray | Dusk Gray | Gray |
| | | | Dusk Gray | Dusk Gray | Beige & Black |
| | | | Woodland Green | Woodland Green | Green |
| Driftwood Gray | Driftwood Gray | Onyx Black | Regatta Blue | Horizon Blue | Blue |
| | | | Dusk Gray | Dusk Gray | Gray |
| | | | Dusk Gray | Dusk Gray | Beige & Black |
| Dusk Gray | Dusk Gray | Argent Silver | Dusk Gray † | Driftwood Gray | Gray |
| | | | Dusk Gray | Dusk Gray | Gray |
| | | | Dusk Gray | Dusk Gray | Beige & Black |
| Sahara Beige | Sahara Beige | Onyx Black | Saddle Brown § | Sahara Beige | Brown |
| | | | Dusk Gray | Dusk Gray | Gray |
| | | | Dusk Gray | Dusk Gray | Beige & Black |
| Saddle Brown | Saddle Brown | Argent Silver | Saddle Brown § | Sahara Beige | Brown |
| | | | Dusk Gray | Dusk Gray | Gray |
| | | | Woodland Green | Woodland Green | Green |
| Madeira Maroon | Madeira Maroon | Argent Silver | Madeira Maroon † | Driftwood Gray | Gray |
| | | | Dusk Gray | Dusk Gray | Gray |
| | | | Dusk Gray | Dusk Gray | Beige & Black |
| Campus Cream | Campus Cream | Onyx Black | Woodland Green | Surf Green | Green |
| | | | Target Red | Driftwood Gray | Red & Gray |
| Target Red | Target Red | Argent Silver | Target Red | Driftwood Gray | Red & White |
| | | | Target Red | Driftwood Gray | Red & White |
| Sungold | Sungold | Onyx Black | Sungold | Driftwood Gray | Yellow & White |

TWO-COLOR COMBINATIONS

| | | | | | |
|----------------|----------------|---------------|------------------|----------------|----------------|
| Regatta Blue | Horizon Blue | Onyx Black | Regatta Blue | Horizon Blue | Blue |
| | | | Dusk Gray | Dusk Gray | Gray |
| India Ivory | Horizon Blue | Onyx Black | Regatta Blue | Horizon Blue | Blue |
| India Ivory | Regatta Blue | Argent Silver | Regatta Blue | Horizon Blue | Blue |
| Woodland Green | Surf Green | Onyx Black | Woodland Green § | Surf Green | Green |
| | | | Dusk Gray | Dusk Gray | Gray |
| | | | Woodland Green | Woodland Green | Green |
| Campus Cream | Woodland Green | Argent Silver | Woodland Green | Surf Green | Green |
| Woodland Green | Campus Cream | Onyx Black | Woodland Green | Surf Green | Green |
| Dusk Gray | Driftwood Gray | Onyx Black | Dusk Gray † | Driftwood Gray | Gray |
| | | | Dusk Gray | Dusk Gray | Gray |
| Saddle Brown | Sahara Beige | Onyx Black | Saddle Brown § | Sahara Beige | Brown |
| | | | Dusk Gray | Dusk Gray | Gray |
| | | | Woodland Green | Woodland Green | Green |
| Sahara Beige | Saddle Brown | Argent Silver | Saddle Brown | Sahara Beige | Brown |
| India Ivory | Sungold | Onyx Black | Woodland Green | Surf Green | Green |
| | | | Sungold | Driftwood Gray | Yellow & White |

* - Available for model 1508 on special order at no extra cost

† - Onyx Black steering wheel rim and cap

§ - Wood Grain finish on side window garnish moldings on model 2119

3-16-53. Revised: 7-1-53. ● - Interior color combination changed.

20. EQUIPMENT AND COLORS

CHEVROLET 1953 SPECIFICATIONS—PASSENGER

EXTERIOR-INTERIOR COLOR COMBINATIONS

| Series 1500 | | | | Series 2100 | | | | Series 2400 | | | | |
|------------------------------|------|------|----------------------|-------------|--------------|----------------------|--------------|-------------|----------------------|-----------------------------|------------------------|--|
| 1502 1503 1504 1524 | 1508 | 1509 | 2102 2103 2124 | 2154 | 2109 2119 | 2134 Top Color | 2402 2403 | 2454 | 2434 Top Color | Rear Fender Insert Panel | Wheels (No Stripes) | |
| | | | ● | ● | | | ● | | | Driftwood Gray | Driftwood Gray | |
| | | | | | | Black | | ● | | Driftwood Gray | Driftwood Gray | |
| ● | | | | | | | | | Black | | | |
| | ● | | ● | ● | | Blue | ● | ● | Blue | India Ivory | Driftwood Gray | |
| ● | | | ● | | | | ● | | | India Ivory | Driftwood Gray | |
| ● | | | ● | ● | ● | Green | ● | ● | Green | Woodland Green | Campus Cream | |
| ● | | | ● | | | | ● | | | Campus Cream | Campus Cream | |
| ● | | | ● | | | | | | | | | |
| ● | | | ● | | | Blue | ● | | Blue | Regatta Blue | Driftwood Gray | |
| ● | | | ● | | | | ● | | | Driftwood Gray | Driftwood Gray | |
| ● | | | ● | | | | ● | | | Saddle Brown | Sahara Beige | |
| ● | | | ● | | | | | | | | | |
| ● | | | ● | ● | ● | Lt. Tan | ● | ● | Lt. Tan | Sahara Beige | Sahara Beige | |
| ● | | | ● | | | | ● | | | Driftwood Gray | Driftwood Gray | |
| ● | | | ● | | | | | | | | | |
| ● | | | ● | | | Green | | | Green | Woodland Green | Campus Cream | |
| | | | | | | Black | | | Black | India Ivory | Driftwood Gray | |
| | | | | | | | | | Black | India Ivory | Driftwood Gray | |
| | | | | | | | | | Black | India Ivory | Driftwood Gray | |
| ● | | | ⊙ | ● | | | ● | ● | | India Ivory | Driftwood Gray | |
| | | | ⊙ | ● | | | ● | ● | | India Ivory | Driftwood Gray | |
| | | | ● | ● | ● | | ● | ● | | Woodland Green | Campus Cream | |
| ● | | | | | | | | | | | | |
| | | | ⊙ | ● | | | ● | ● | | Campus Cream | Campus Cream | |
| | | | ⊙ | ● | | | ● | ● | | Woodland Green | Campus Cream | |
| | | | ⊙ | ● | | | | | | | | |
| ● | | | ● | ● | ● | | ● | ● | | Saddle Brown | Sahara Beige | |
| ● | | | | | | | | | | | | |
| | | | ⊙ | ● | | | ● | ● | | Sahara Beige | Sahara Beige | |
| | | | | | | | ● | ● | | India Ivory | Driftwood Gray | |
| | | | | | | | ● | ● | | India Ivory | Driftwood Gray | |

⊙ - 2124 only
 ⊙ - 2102, 2103 only

INTERIOR UPHOLSTERY AND COLOR COMBINATIONS

1500 SERIES

SEDANS AND COUPES

Models 1502-03-04-24

Color: Two-tone gray.

Seats: Light gray pattern cloth with dark gray textured leather fabric at base; plain dark gray flat cloth on front seat back insert and sides; textured leather fabric with dark gray painted molding on end panel lower.

Sidewalls: Dark gray textured leather fabric on upper panel and scuff pad; light gray leather fabric center panel; dark gray embossed composition board quarter panels and rear partition on Business Coupes.

Horn button: Bright metal with black painted shield.

Headlining and sunshade: Light gray plain napped cloth; dark gray leather fabric binding and grip on sunshade.

Floor covering: Front and rear - textured black rubber; luggage compartment - rib pattern black rubber.

HANDYMAN

Model 1509

Color: Two-tone green.

Seats: Light green leather fabric on cushion and backrest; dark green leather fabric front seat back insert and end panels except dark green textured leath-

er fabric and painted molding on front seat end panel lower; dark green ribbed linoleum on back of backrest and bottom of rear seat cushion.

Sidewalls: Dark green textured leather fabric on upper panel, scuff pad, and rear quarter panels; light green leather fabric center panel.

Headlining and sunshades: Light green leather fabric.

Wheelhouse cover panels: Dark green paint.

Horn button: Bright metal with black painted shield.

Floor covering and tail gate: Front and center - textured dark green mottled rubber. Rear - dark green ribbed linoleum on load space floor and tail gate.

SEDAN DELIVERY

Model 1508

Color: Beige and black.

Seats (bucket type) and side doors: Beige leather fabric on seat cushion, back rest, and upper door panels; black textured leather fabric on seat back, facings, scuff pad and lock pillar cover.

Headlining and sunshade: Beige leather fabric.

Load space sidewalls: Beige painted fiber board.

Rear door inner panel: Beige painted steel.

Horn button: Bright metal with black painted shield.

Floor covering: Driver's compartment - textured black rubber. Load space - black painted plywood.

2100 SERIES

SEDANS AND COUPES

Models 2102-03-24-54

Colors: Two-tone gray, blue, green, and brown. (See page 20 for Interior-Exterior color combinations)

Seats: Light tone solid color pattern cloth with dark tone solid color pattern cloth on back rest upper panel and front seat end panel upper; dark tone leather fabric with bright metal molding on end panel lower.

Sidewalls: Dark tone solid color pattern cloth on upper panel; light tone leather fabric on lower panel.

Arm rests: Dark tone leather fabric upper with light tone plastic base, except light tone leather fabric on rear arm rest lower on model 2154.

Headlining and sunshades: Light tone plain napped cloth; leather fabric binding and grip on sunshades.

Floor covering: Front - textured dark tone mottled rubber. Rear - dark tone solid color carpet.

HANDYMAN AND TOWNSMAN

Models 2109-19

Colors: Green and beige, or brown and beige.

Seats: Beige straw pattern leather fabric with metallic green or brown Elascobac on backrest and cushion bolsters; metallic light green or brown leather fabric with bright metal molding on front seat end panel; Arm rest lower is beige plastic; beige ribbed linoleum on Handyman rear seat back and bottom of rear seat cushion.

Sidewalls: Metallic light green or brown leather fabric on upper panel and rear quarter panel; beige

straw pattern leather fabric center panel; embossed bright metal scuff pad.

Arm rest: Beige straw pattern leather fabric upper with beige plastic base.

Headlining and sunshades: Beige leather fabric.

Wheelhouse cover panels: Beige paint.

Floor covering and tail gate: Front and center - mottled beige textured rubber. Rear - beige ribbed linoleum on floor area and tail gate; bright metal skid strips on tail gate.

CONVERTIBLE

Model 2134

Colors: Red and gray; two-tone blue, green, and brown.

Seats: Light tone leather fabric on cushion and backrest with dark tone leather fabric backrest upper panel, except solid red cushion and backrest on red and gray combination. Light tone leather fabric front seat back insert and dark tone leather fabric lower cross bar. Dark tone plastic with bright metal molding on front seat end panels.

Sidewalls: Dark tone leather fabric on upper panel; light tone leather fabric on lower panel.

Sunshades: Dark tone leather fabric.

Arm rests: Front - dark tone leather fabric upper with light tone plastic lower. Rear - dark tone leather fabric upper with light tone leather fabric lower.

Side window frames: Bright metal.

Floor covering: Textured dark tone mottled rubber.

INTERIOR UPHOLSTERY AND COLOR COMBINATIONS—Continued

2400 SERIES

SEDANS

Models 2402-03

Colors: Two-tone gray, blue, green, and brown.
(See page 20 for Interior-Exterior color combinations)

Seats: Light tone plain broadcloth with nylon-faced ladder pattern cloth bolsters; light tone plain flat cloth on front seat back insert; dark tone plain flat cloth on lower cross bar on Model 2403; dark tone carpet on lower cross bar on Model 2402; dark tone plain flat cloth with bright metal molding on front seat end panels.

Sidewalls: Dark tone leather fabric on upper panel and scuff pad; light tone plain flat cloth on center panel.

Arm rests: Dark tone leather fabric upper; light tone plastic lower.

Headlining and sunshades: Light tone plain napped cloth; dark tone leather fabric binding and grip on sunshades.

Floor covering: Dark tone solid color carpet.

SPORT COUPE

Model 2454

Colors: Black and white, yellow and white; two-tone blue, green, and brown.

Seats: Two-tone checked pattern cloth on cushion and backrest with light tone Elascofab on backrest upper panel and cushion bolster; light tone leather fabric welts. Light tone leather fabric on front seat back insert; solid color carpet on lower cross bar; light

tone plastic with bright metal molding on front seat end panels.

Sidewalls: Dark tone leather fabric on upper panel and scuff pad; light tone leather fabric on center panel.

Arm rests: Front - dark tone leather fabric on upper with light tone plastic base. Rear - dark tone leather fabric upper with light tone leather fabric lower.

Headlining and sunshades: Light tone leather fabric.

Side window frames and exposed roof bows: Bright metal.

Floor covering: Dark tone solid color carpet.

CONVERTIBLE

Model 2434

Colors: Red and white, black and white, yellow and white; two-tone blue, green, and brown.

Seats: Dark tone Elascofab cushion and backrest with light tone Elascofab on backrest upper panel and cushion facing; dark tone leather fabric on front seat back insert; dark tone solid color carpet on lower crossbar.

Sidewalls: Dark tone leather fabric on upper panel and scuff pad; light tone leather fabric center panel.

Arm rests: Front - dark tone leather fabric with light tone plastic base. Rear - dark tone leather upper with light tone leather fabric lower.

Floor covering: Dark tone solid color carpet.

Top boot: Light tone leather fabric.

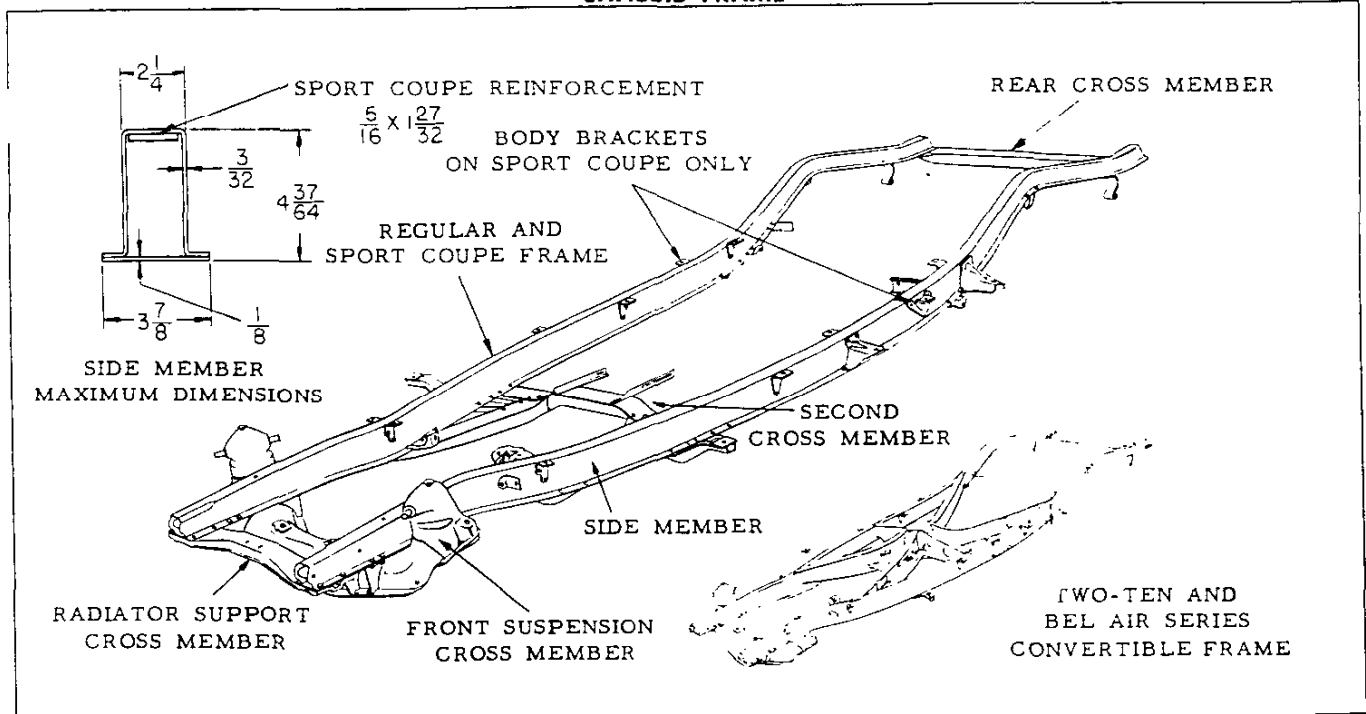
BODY GLASS

| ITEM | 1503 | 2103 2403 | 1504 1524 | 1508 | 1502, 2102 2124, 2402 | 2154 2454 | 2134 2434 | 1509 | 2109 | 2119 | |
|----------------------|---|--------------|--------------|------|--------------------------|--------------|---------------|------------------------|------------------------|------|--|
| Windshield | Laminated safety plate, curved, one piece | | | | | | | | | | |
| Front Door | Laminated safety plate | | | | | | | | | | |
| Rear door windows | | | | | | | | Laminated safety sheet | Laminated safety plate | | |
| Rear quarter windows | | | | | Laminated safety plate | | | Laminated safety plate | | | |
| Rear window | Safety solid plate, curved | | | | | | Vinyl plastic | Safety solid plate | | | |

REGULAR EQUIPMENT

| ITEM | | MODELS | | |
|---------------------------------|--|---|---|---------------------|
| Exterior | Bumpers and dual bumper guards, front and rear | All | | |
| | Hood ornament and emblem | | | |
| | Chrome plated head light rims | | | |
| | Dual windshield wipers | | | |
| | Dual horns | | | |
| | Outside key locks, front doors | | | |
| | Bumper gravel deflectors, front and rear | | | |
| | Rear fender shields | | 1500 | |
| | | | Bright metal | 2100, 2400 |
| | Rear wheel cover panels | | 2400 | |
| | Rear deck lid wing emblem with finger grip | | All except 1508-09, 2109-19 | |
| | Locking T handle on lift gate, name plate on tail gate | | 1509, 2109-19 | |
| | Dual tail and stop lights | | All | |
| | One license light in rear gravel deflector | 1508-09, 2109-19 | | |
| | License light in license guard | All except 1508-09, 2109-19 | | |
| | Bright metal moldings | Body belt | All | |
| | | Body sill | All except 1500 models | |
| | | Front and rear fenders and doors with the words "Bel Air" in script on rear fenders | 2100, 2400. "Bel Air" designation on 2400 only | |
| | | Reveals | Windshield | 1508, 2100, 2400 |
| | | | Side window | 2102-03-24, 2402-03 |
| | Rear window | | 1508, 2102-03-24-54, 2402-03-54 | |
| | Outside rear view mirror, left hand | 1508 | | |
| | Ventipane drip shields | All except 2134, 2434 | | |
| Bonderized body and sheet metal | All | | | |
| Interior | Instrument panel | Glove box lock and light | All. Lock only on 1500 | |
| | | Clock, stem wind | 2100, 2400. A removable panel covers each space on 1500 | |
| | | Cigarette lighter | | |
| | | Ash tray | 2100, 2400 | |
| | | Plastic control knobs with bright metal finger grips and inserts | 2100, 2400 Plain plastic on 1500 | |
| | | Radio grille, bright metal | | |
| | | 3-position ignition switch | All | |
| | Two-tone finish | | 2100, 2400 | |
| | | | | |
| | Steering wheel | Two spoke with horn button | 1500 | |
| | | Two spoke with full horn ring | 2100, 2400 | |
| | Dual sunshades | 2100, 2400. Left hand only on 1500 | | |
| | Inside rear view mirror | All except 1508 | | |
| | Passenger compartment light | 1, All except 2 on 2154, 2454 | | |
| | Interior lighting automatic switches, two | Front doors 2100, 2400 | | |
| | Coat hooks | 1502-03-04-24, 2102-03-24, 2402-03 | | |
| | Assist straps | 2102-24, 2402 | | |
| | Robe cord | 2102-03, 2400 | | |
| | Foam rubber seat cushion pad, front and rear | 2100, 2400 | | |
| | Arm rests, front and rear doors or quarter panels | Front only on 2109-19 | | |
| | Extra roof insulation | 2102-03-24-54, 2402-03-54 | | |
| | Rear seat ash tray | In front seat back | 2103, 2403 | |
| | | In quarter panel arm rests | 2102-24-34-54, 2402-34-54 | |
| | Package shelf ahead of rear window | 1502-03-04-24, 2102-03-24-54 2402-03-54 | | |
| | Dual ventilators in dash | All | | |
| | Adjustable front seat | | | |
| | Moveable front door ventipanes | | | |
| | Bright metal inserts in window regulator knobs | 2100, 2400 | | |
| | Rolled embossed aluminum step plates | All | | |
| | "Body by Fisher" on front door step plates | | | |
| Seat springs | Continuous "S" shaped springs | All front seats except 1508. All rear seats except 1509, 2109-19 | | |
| | Coil springs | Front seats 1508 Folding seat 1509, 2109 Center and rear seat 2119 | | |

CHASSIS FRAME



Make----- Own
 Type----- Box girder
 Construction:

Side members-----Box girder, full length, deep flanged channel, with reinforcing plate across full width of channel flanges. Sport Coupes are reinforced with steel plates 5/16 x 1-27/32, full length, welded to inside top of box section.

Radiator support cross member----- Flanged channel section

Front cross member----- Flanged semi-tubular type with a flat steel bottom plate across diametral width of the section. Also serves as front suspension cross member.

Second cross member-----Box girder, with box section braces to the side members.

Rear cross member-----Box girder

Maximum overall length----- 169-37/64

Maximum width (over side member flanges)----- 47

Material----- Hot rolled steel, pickled

Material yield point----- 33,000 lb per sq. in.

Material elongation----- 25% min in 2 inches

Side member section: Sport Coupes All others

Modulus (in.³) 3.245 1.725

Moment of inertia (in.⁴) 7.775 4.90

CONVERTIBLE COUPE FRAMES

The second cross member is replaced by a crossed X or VK structure of I-beam section members.

FRONT SUSPENSION

Make----- Own
 Type----- Independent, short and long arm wishbone type, assembled and aligned as a complete suspension unit.

Rated capacity----- 2300 lb

WHEEL TRAVEL

Vertical, loaded conditions----- 3-5/8 up, 4 down

Wheel to spring ratio----- 1.65:1

Wheel travel for steering----- 37° to 39°30' from neutral to stop

SPRING BUMPERS

Type----- Rubber (2, compression and rebound)

SHOCK ABSORBERS

Make----- Delco

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

Mounting----- Vertically, from lower control arm through coil spring to dome of spring housing.

Model number----- 538F

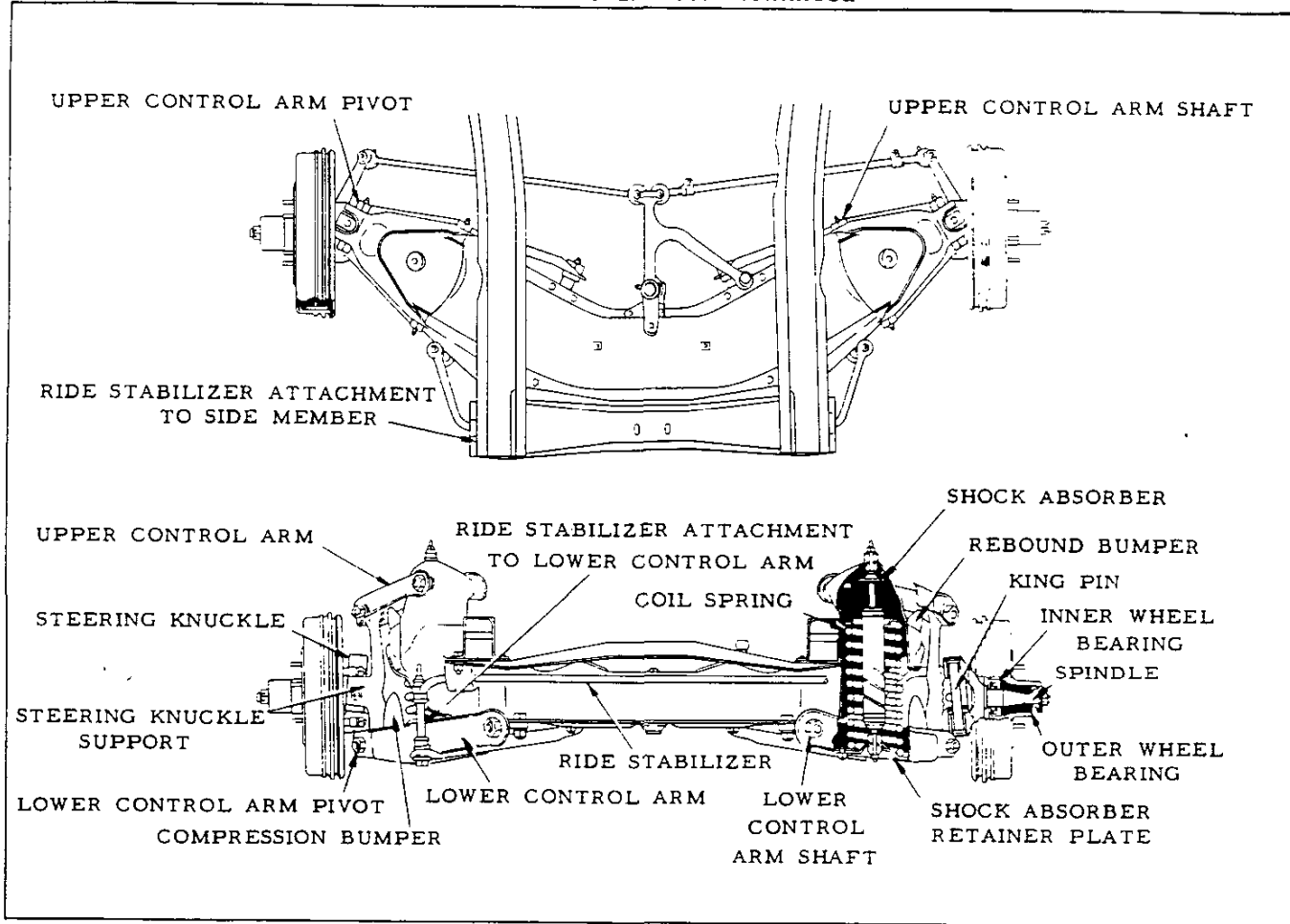
Valve Code----- 5C6/OXGI²

Piston diameter and travel----- 1 x 4-11/16

| SPRINGS | 2134-2434 and RPO's 313, 324, 330 • | ALL OTHERS |
|--------------------------|---------------------------------------|---------------------------------------|
| Make and type | Own, right hand helical coil | |
| Material and gauge | Chrome alloy steel .584-.588 | |
| Number of coils | Total 12.1 - Active 10.4 | |
| Diameters | Outside 4.45 - Pitch 3.794 | |
| Height | Free 15-1/8, Working 9.5 at 1640 lbs. | Free 14-3/4, Working 9.5 at 1555 lbs. |
| Height under curb weight | 10-3/8 | |
| Capacity at ground (lbs) | 1100 | 1050 |
| Deflection rate | 300 pounds per inch | |
| | 110 pounds per inch | |

CONTINUED

FRONT SUSPENSION—Continued



STEERING KNUCKLE

Type----- Reverse Elliott
 Spindle diameters:
 At inner bearing----- 1.2801-1.2806
 At outer bearing----- .7490-.7495

FRONT WHEEL ALIGNMENT (Service Data)

Camber, caster - means of adjustment-----
 -----Upper pivot bolts
 Camber-----0°-1°
 Caster-----0°-1°
 King pin inclination-----3°30'-4°30'
 Toe-in-----3/16-5/16 ●
 Toe-out on turns:
 Outside wheel-----20°
 Inside wheel-----22°-26°

RIDE STABILIZER

Type----- Torsion bar
 Attachment-----Rubber-insulated,
 attached with brackets to bottom plates of frame side
 members and rubber-insulated link bolts to brackets
 on front suspension lower control arms

KING PIN

Diameter----- .8660-.8665
 Bushings:
 Inside diameter----- .867-.868
 Length-----1-5/16

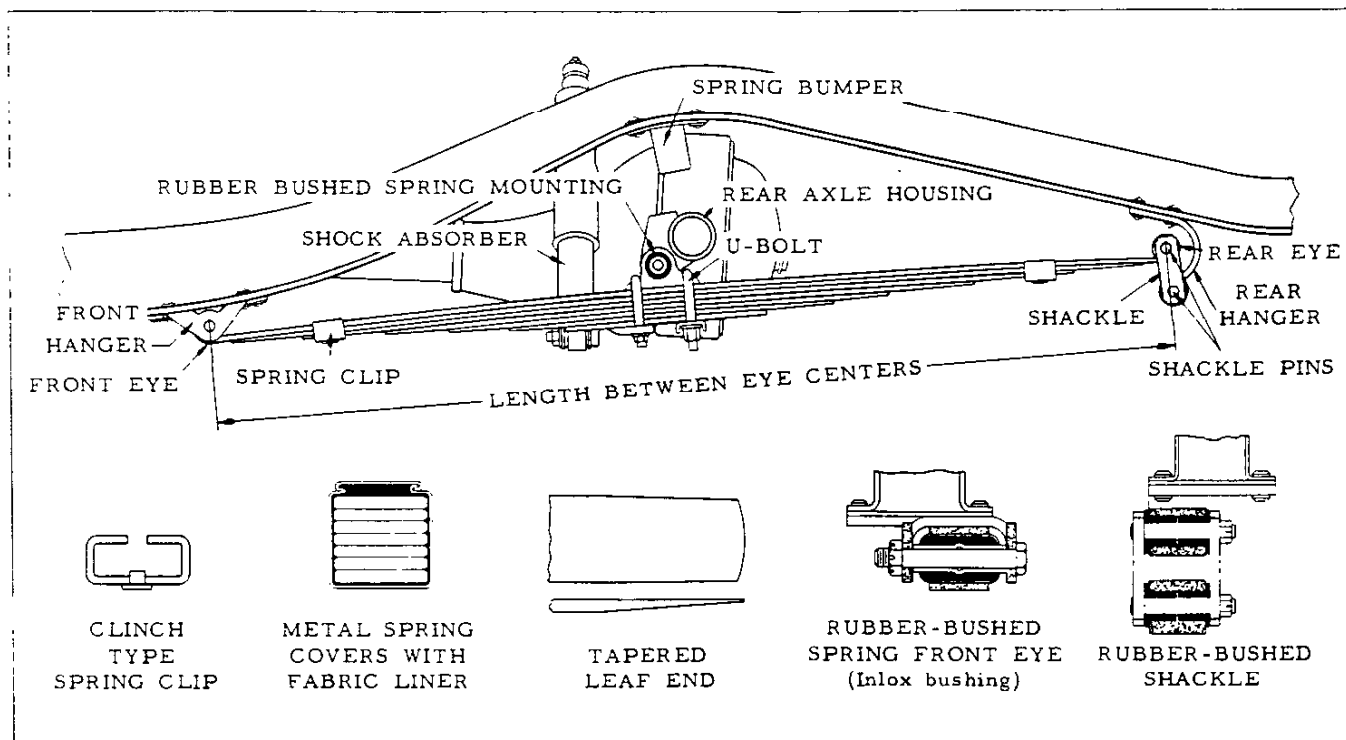
BEARINGS

Wheel bearing lubricant---High melting-point grease
 Anti-friction bearings-----See page 161

| FRICITION BEARINGS | UPPER CONTROL ARMS | | | | LOWER CONTROL ARMS | | | |
|-----------------------|--------------------------------|---------------|----------------|------------|----------------------|---------------|----------------|------------|
| | Pivot Bolt | Bolt Bushings | Shaft Bushings | Shaft Ends | Pivot Bolt | Bolt Bushings | Shaft Bushings | Shaft Ends |
| Type | Threaded steel bushings | | | | | | | |
| Type of thread | 11-pitch | | | | | | | |
| Thread major diameter | Front .644-.662 | .694 minimum | .774 minimum | .736-.740 | .714-.732 | .774 | .889 | .852-.862 |
| | Center | | | | .724-.742 | | | |
| | Rear .644-.662 | | | | .738-.756 | | | |
| Mounting | Clamp lock | | | | Self-locking threads | | | Bolted |
| Seal | Synthetic rubber, self-sealing | | | | | | | |

3-16-53. Revised: 7-1-53, Data corrected. ●

REAR SUSPENSION



SPRINGS

Make and type----- Own, semi-elliptic
 Material----- Chrome alloy steel
 Length x width----- 49 x 1-3/4
 Spring clips----- 2, clinch type
 Spring covers----- Metal with fabric liner

| ITEM | 1502-03-24 2102-03-24 -34-54, 2400 | 1504 | 1508 (RPO on 1502 -03-04-24, 2102-03 -24-34-54, 2400) | 1509 2109-19 | RPO on 1508-09, 2109-19 |
|--|--|-------|---|-----------------|-------------------------------|
| Number of leaves | 7 | 7 | 8 | 8 | 8 |
| Thickness of leaves | #1-2 | .237 | | | |
| | #3-4 | | | | |
| | #5-6-7 | .214 | | | |
| | #8 | .262 | | | |
| Total thickness | 1.544 | 1.590 | 1.804 | 1.896 | 1.996 |
| Avg design load at camber height (lbs) | 880 | 750 | 920 | 1250 | 1365 |
| Camber height at design load | 5/8 neg | 1 neg | 5/8 neg | 5/8 neg | 1-1/4 neg |
| Average rate of deflection (lb/in) | 100 | 108 | 115 | 145 | 165 |
| Leaf end type | Tapered | | | Flat | |
| Capacity at ground (lb) | 1100 | 945 | 1180 | 1475 | 1600 |

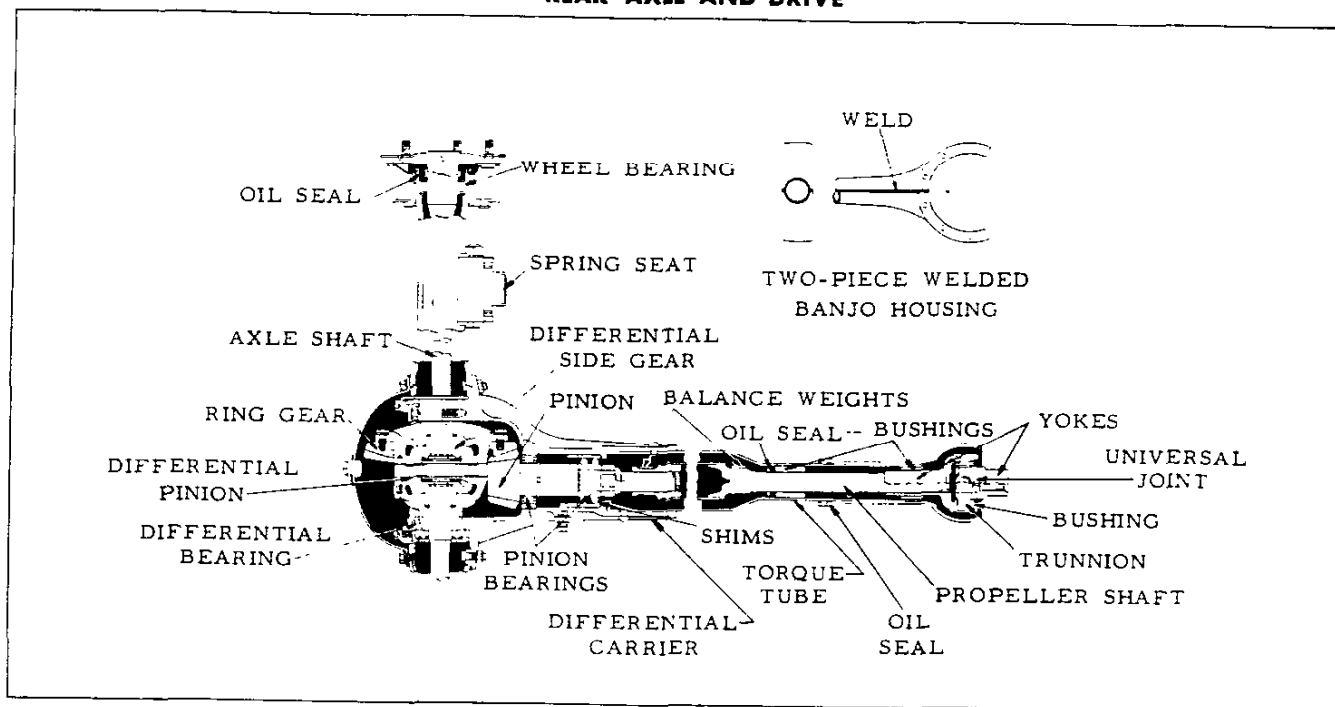
SPRING MOUNTING

Type----- Parallel, 45-1/4 between centers
 Front eye bolt diameter----- .500-.504
 Front eye bolt bushing, type and size----- Rubber-bushed, .505 min ID x 2.400-2.410 long
 Shackle mounting----- In tension from rear hanger
 Shackle type----- Rubber-bushed
 Shackle pin OD----- .498-.502
 Shackle bushing size----- .850-.860 OD x 1.125-1.145; two per shackle pin; 2 in. long when assembled
 Spring to axle attachment----- 2 U-bolts (1/2 dia) to rubber bushed seat on rear axle housing

SHOCK ABSORBERS

Make and type----- Delco, hydraulic, direct double-acting
 Model number----- 561-V
 Valve code----- 4.5C6/OXG/2
 Piston diameter and travel----- 1 x 8-3/16

REAR AXLE AND DRIVE



REAR AXLE

Make ----- Own
 Type ---- Semi-floating with torque tube drive through fully enclosed universal joint and propeller shaft
 Rating ----- 3000 pounds
 Drive medium ----- Chassis rear springs
 Torque taken by ----- Torque tube
 Housing type ----- Pressed steel banjo, 2-piece welded with pressed steel inspection cover
 Lubricant capacity ----- 3-1/2 pints
 Lubricant recommended ----- SAE 90 passenger car hypoid lubricant or "Multi-Purpose" lubricant
 Final drive gears:

Type ----- Spiral hypoid
 Ratio ----- 1508, 4.11:1; all others 3.70:1
 Teeth, ring gear ----- 37
 Teeth, pinion ----- 1508, 9; all others 10
 Gear backlash ----- .005-.008

Pinion gear:

Mounting ----- Overhung
 Thrust taken by ----- Pinion front bearing
 Adjustment ----- Shims (average .018)
 in differential carrier forward of the front bearing

| ITEM | | 1st | 2nd | 3rd | rev |
|-----------------|------------|-------|------|------|-------|
| Total gear | 1508 | 12.08 | 6.90 | 4.11 | 12.08 |
| reduction* | All others | 10.88 | 6.22 | 3.70 | 10.88 |
| Axle shaft | 1508 | 1746 | 997 | 629 | 1746 |
| torque (ft lb)⊙ | All others | 1817 | 1038 | 654 | 1817 |

Lock sleeve lock screw torque ----- 26-30 ft lb

Pinion fr brg ret nut torque ----- 200-240 ft lb

Bearings

Anti-friction bearings ----- See page 161

* - Axle ratio x transmission ratio

⊙ - Gear reduction x engine maximum net torque x efficiency factor (.90 in direct drive, .85 all others.)

AXLE SHAFT

Type and material ----- Forged steel with wheel drive flange forged integral with shaft
 Minimum diameter ----- 63/64
 Oil seal --Steel-encased spring-loaded synthetic rubber

DIFFERENTIAL

Type -----
 Two pinion with malleable iron case and carrier
 Bearing cap bolt torque ----- 65-80 ft lb

UNIVERSAL JOINT

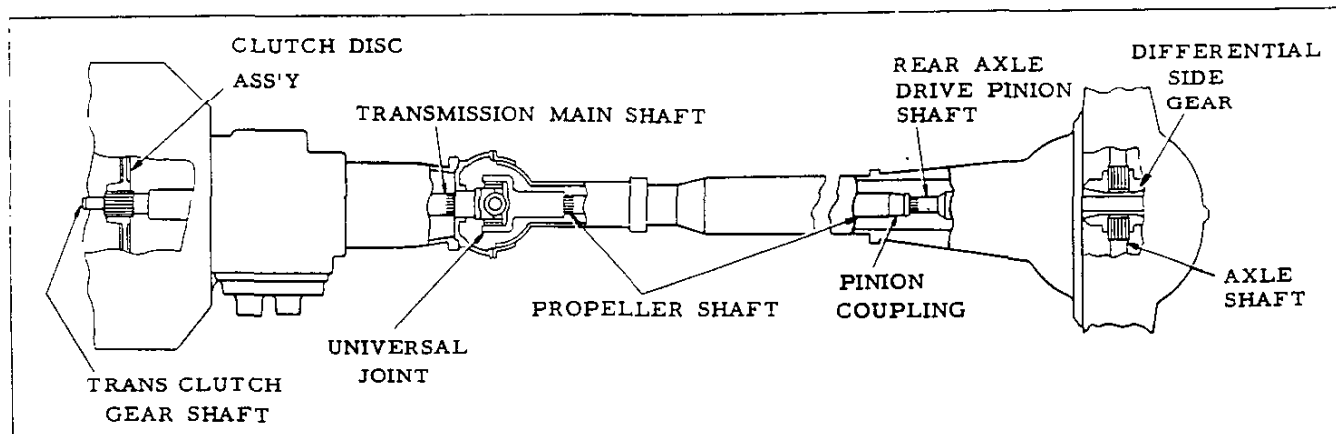
Make ----- Own
 Type ----- York and spider (trunnion)
 Trunnion material ----- Drop forged steel, hardened
 Trunnion pin diameter ----- .6835-.6845
 Bearing ID and length ----- .687-.688 x 17/32
 Lubrication ----- From transmission

PROPELLER SHAFT

Make and type ----- Own, tubular
 Tube OD ----- 1.995-2.005
 Tube wall thickness ----- .062-.068
 Shaft OD at inner bushing ----- 1.0642-1.0657
 Torque tube bushings:
 Material ----- Hard rolled bronze in steel sleeve
 Rear, ID x length ----- 1.0681-1.0691 x 1.430
 Front, ID x length ----- 1.3471-1.3481 x 1.085
 Oil seal --Steel-encased spring-loaded synthetic rubber

3-16-53. Revised: 7-1-53, ● - Sedan delivery information added.

DRIVE SYSTEM SPLINES

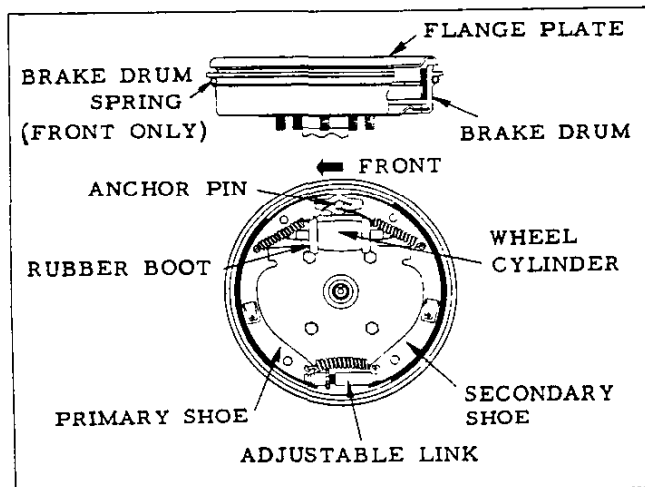


| FUNCTION OF SPLINES | NUMBER AND TYPE OF SPLINES |
|---|----------------------------|
| Clutch disc hub to transmission clutch gear shaft----- | 10 straight side |
| Transmission main shaft to U-joint front yoke----- | 10 involute |
| U-joint rear yoke to propeller shaft front end----- | 17 involute |
| Propeller shaft rear end to rear axle drive pinion shaft----- | 17 involute |
| Differential side gears to rear axle shafts----- | 10 straight side |

BRAKES

SERVICE BRAKES

| | |
|---|--|
| Make ----- | Own |
| Type ----- | Servo, four-wheel, hydraulic |
| Brake drum: | |
| Type ----- | Composite (Cast alloy iron rim and pressed steel web) |
| Diameter, front and rear ----- | 11 |
| Distribution of braking effort (theoretical): | |
| On front wheels ----- | 56% |
| On rear wheels ----- | 44% |
| Brake lining: | |
| Material ----- | Full molded asbestos composition |
| Width, front brakes ----- | 2 |
| Width, rear brakes ----- | 1-3/4 |
| Thickness (before grinding) ----- | .202-.222 |
| Length, per wheel ----- | 21 |
| Length, primary shoe ----- | 9-5/16 |
| Length, secondary shoe ----- | 11-11/16 |
| Method of attachment to shoe ----- | Bonded |
| Clearance: | |
| Adjust to a light drag and back off seven notches | |
| Total effective area ----- | 158 sq. in. |
| Main cylinder: | |
| Diameter ----- | 7/8 |
| Piston travel ----- | 1.343 |
| Wheel cylinder: | |
| Inside diameter, front ----- | 1-1/8 |
| Inside diameter, rear ----- | 1 |
| Piston travel ----- | .113 |
| Braking ratio: | |
| Pedal ----- | 4.85 to 1 |
| Hydraulic ----- | 11.84 to 1 |
| Total overall ----- | 57.43 to 1 |



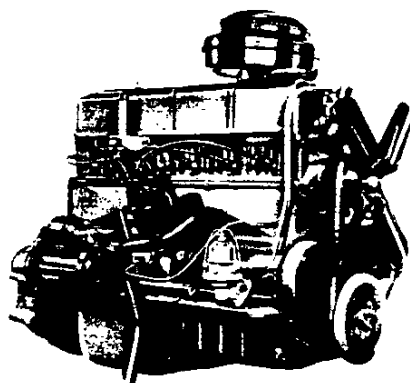
Foot pedal:

| | |
|-----------------------------------|-----------------------------|
| Travel ----- | 6-17/32 |
| Mounting ----- | With main cylinder to frame |
| Pad cover material ----- | Rubber |
| Brake system fluid capacity ----- | .70 pint approx. |
| Brake fluid recommended ----- | Delco Super #9 |
| Vacuum booster ----- | None |

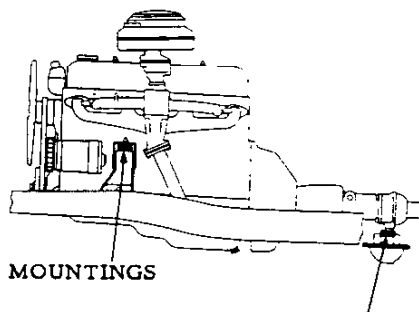
PARKING BRAKE

| | |
|-----------------------------------|---|
| Make and type ----- | Own, mechanical. Pull rods and cables operate the two rear service brakes. |
| Total effective lining area ----- | 74 sq. in. |
| Control ----- | T-handle on ratchet-rod (pull to apply, turn 60° clockwise to release), mounted below instrument panel at right of steering column. |

ENGINE—GENERAL



235.5 cu. in. ENGINE



FRONT MOUNTINGS

TRANSMISSION MOUNTING

BASIC ENGINE DATA

| | | | |
|--|---------------------------------|--|---------------|
| Piston displacement (cu. in.) | | 235.5 | 216.5 |
| Type | | Valve-in-head | |
| Number of cylinders | | Six | |
| Bore and stroke (nominal) | | 3-9/16 x 3-15/16 | 3-1/2 x 3-3/4 |
| Compression ratio | | 7.1:1 | 6.6:1 |
| Taxable (SAE) horsepower | | 30.4 | 29.4 |
| Idling speed | | 475 RPM | |
| Compression pressure at cranking speed, engine hot (PSI) | | 130 (or better) | |
| Dry weight (pounds) | Engine and clutch | 604 | 575 |
| | Engine, clutch and transmission | 659 | 631 |
| Lubrication | | Pressure and splash | |
| Power plant mounting | | Rubber-cushioned, three-point support, with high side front mountings. | |

ADVERTISED MAXIMUM ENGINE PERFORMANCE

| | | | |
|------------------|-------|------------------|---------------------|
| Brake horsepower | Gross | 108 @ 3600 RPM | 92 @ 3400 RPM |
| | Net | 103 @ 3500 RPM | 85 @ 3300 RPM |
| Torque (ft lb) | Gross | 200 @ 2000 RPM | 176 @ 1000-2000 RPM |
| | Net | 196.5 @ 1000 RPM | 170 @ 1000-2000 RPM |

ENGINE SPEED AND PISTON TRAVEL

| | | | |
|-------------------------------------|-----------------|-----------|--------|
| Rear axle ratio | | 3.70:1 | 4.11:1 |
| Tire size | | 6.70 - 15 | |
| Crankshaft revs/mile | | 2768 | 3074 |
| Crankshaft RPM at one mile per hour | Low and reverse | 135 | 150 |
| | Second | 77 | 86 |
| | Direct | 46 | 51 |
| Piston travel (ft/mile) | | 1816 | 1921 |

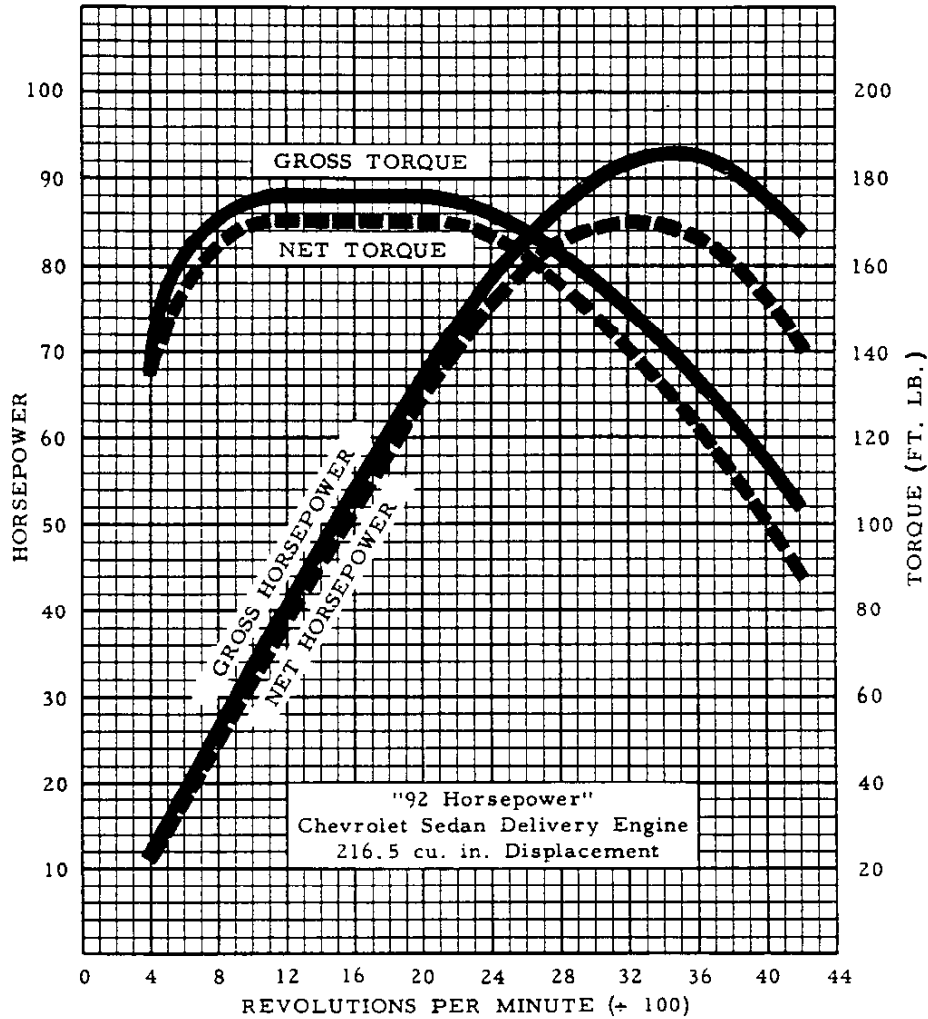
The following information is based upon the lowest priced four door sedan in each line, with each vehicle at performance weight (curb weight, plus 600 pounds to represent four passengers):

| MODELS | 1503 | 2103 | 2403 |
|--|--------|--------|--------|
| Performance weight (pounds) | 3935 | 3955 | 3980 |
| Pounds/gross horsepower | 36.43 | 36.62 | 36.85 |
| Pounds/cu. in. piston displ | 16.71 | 16.80 | 16.90 |
| Gross horsepower/cu. in. displ | .46 | .46 | .46 |
| Power displacement (cu. ft/mile)* | 188.60 | 188.60 | 188.60 |
| Displacement factor (cu. ft/ton mile)† | 95.86 | 95.37 | 94.77 |

* - Crankshaft rev/mile x piston displacement ÷ 1728

† - Power displacement ÷ performance weight in tons

ENGINE PERFORMANCE



The engine performance curves shown on this sheet are taken from Chevrolet engine test report 16042-35. They represent the full throttle performance of a Chevrolet Sedan Delivery engine (216.5 cu. in. displacement) as obtained from dynamometer test data which were corrected to the standard barometric pressure of 29.92" Hg. 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.

January 13, 1953
The data on this sheet are true as represented.
Chevrolet - Central Office - Engineering Dept.
Division of General Motors Corporation

H. F. Barr

H. F. Barr
Assistant Chief Engineer

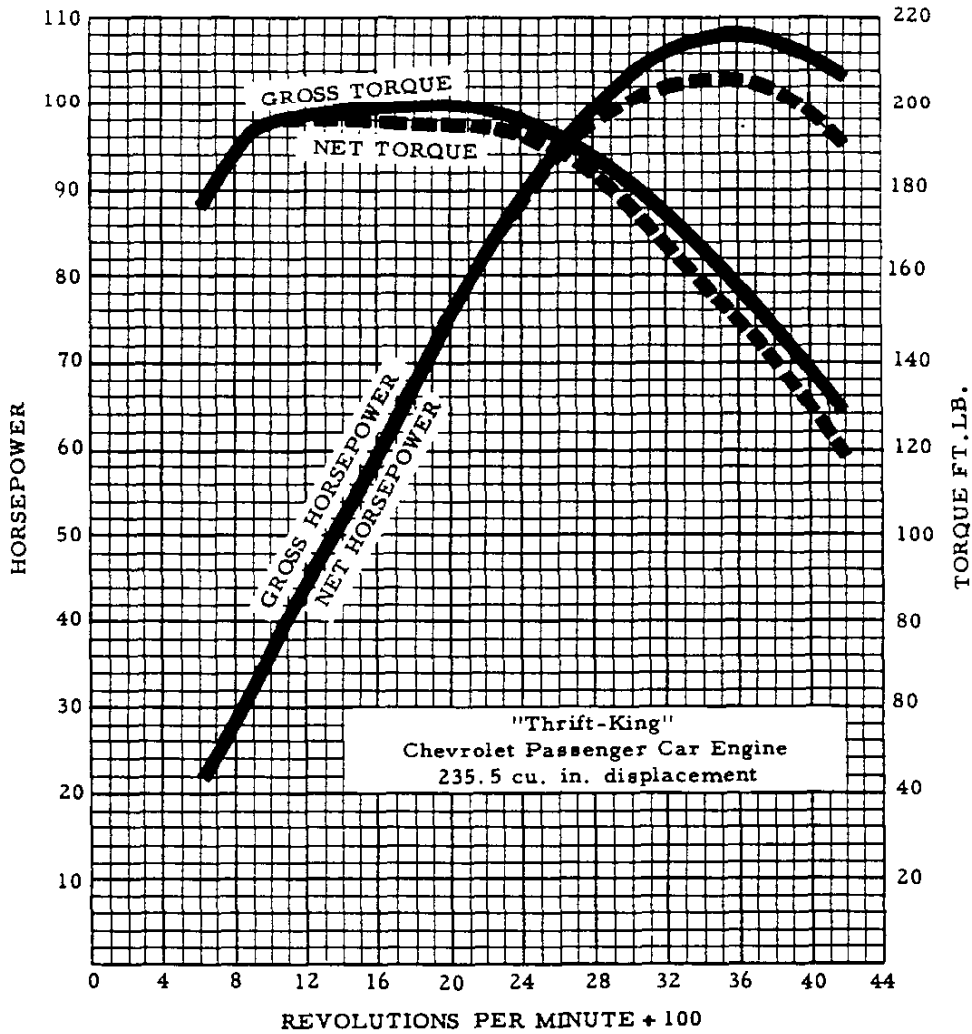
State of Michigan
County of Wayne

On this 13th day of January 1953, personally appeared before me, H. F. Barr, known to me to be such, who makes oath that the data on this sheet are true as represented.

H. Woodward

Notary Public, Wayne County
My commission expires August 2nd, 1953

ENGINE PERFORMANCE



The engine performance curves shown on the sheet are taken from Chevrolet engine test report 17702-60. They represent the full throttle performance of a Thrift-King Chevrolet passenger car engine (235.5 cu. in. displacement) as obtained from dynamometer test data which were corrected to the standard barometric pressure of 29.92" Hg. 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.

32 - ENGINE

March 16, 1953
The data on this sheet are true as represented.
Chevrolet - Central Office - Engineering Dept.
Division of General Motors Corporation

H. F. Barr
H. F. Barr
Assistant Chief Engineer

State of Michigan
County of Wayne

On this 16th day of March 1953, personally appeared before me, H. F. Barr, known to me to be such, who makes oath that the data on this sheet are true as represented.

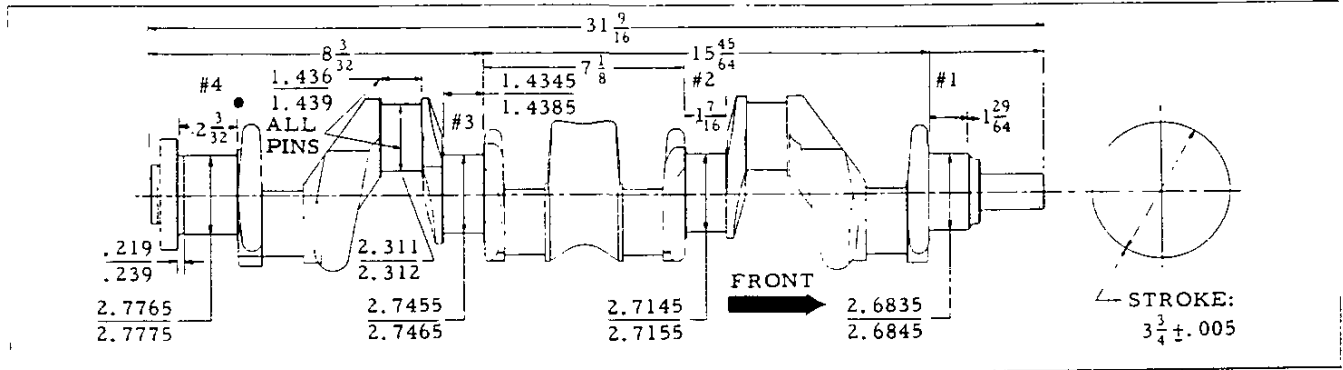
H. H. Woodward
Notary Public, Wayne County
My commission expires August 2nd, 1953

CHEVROLET 1953 SPECIFICATIONS—PASSENGER

CYLINDER CASE AND HEAD

Material-----Cast alloy iron Offset-----None
 Cylinder head bolt torque: Bore diameter:
 216.5 engine-----70-80 ft. lb. 216.5 engine-----3.4995-3.5015
 235.5 engine-----90-95 ft. lb. 235.5 engine-----3.5620-3.5640

CRANKSHAFT AND BEARINGS



CRANKSHAFT

Material-----Drop-forged steel
 Weight--- 216.5 eng., 70 lb.; 235.5 eng., 74.25 lb.
 End play-----.003-.009
 Counterweights-----7
 Stroke: 216.5 engine-----3-3/4[±].005
 235.5 engine-----3-15/16[±].005
 HARMONIC BALANCER (Vibration damper)
 Type-----Oscillating (Rubber-floated)
 Fan drive pulley dia.: 216.5 engine-----6-1/32
 235.5 engine-----6

MAIN BEARINGS

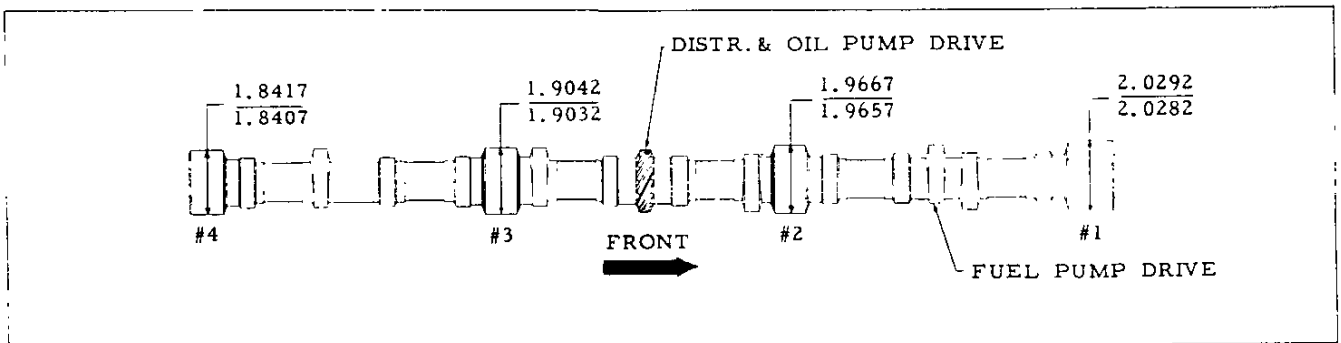
Material-----.003-.007 babbitt on steel shell

Type-----Precision interchangeable
 Removable-----From below
 Necessary to align ream-----No
 Clearance-----.0007-.0028 fit with solid shims
 End thrust against-----#3 bearing
 Bearing cap bolt torque-----
 -----100-110 ft. lbs. with oiled threads

| Brg. | Inside Dia. | Length | Proj. Area* |
|------|---------------|---------------|---------------|
| #1 | 2.6850-2.6866 | 1-3/16 | 2.732 sq. in. |
| #2 | 2.7160-2.7176 | 1-1/8 | 2.595 sq. in. |
| #3 | 2.7470-2.7486 | 1.4295-1.4315 | 2.793 sq. in. |
| #4 | 2.7780-2.7796 | 1-5/16 | 3.175 sq. in. |

* - Based on effective length, i.e. overall length shown above, less oil groove and chamfers.

CAMSHAFT AND BEARINGS



CAMSHAFT

Material-----Drop-forged steel
 Minimum diameter-----1-3/32
 End play-----.001-.005
 Ramp: Inlet-----.0111
 Exhaust-----.014

DRIVE

Make and type-----Chevrolet, helical gear
 Driven gear (on camshaft) material-----
 -----Bakelite and fabric composition with steel hub
 Drive gear (on crankshaft) material-----Steel

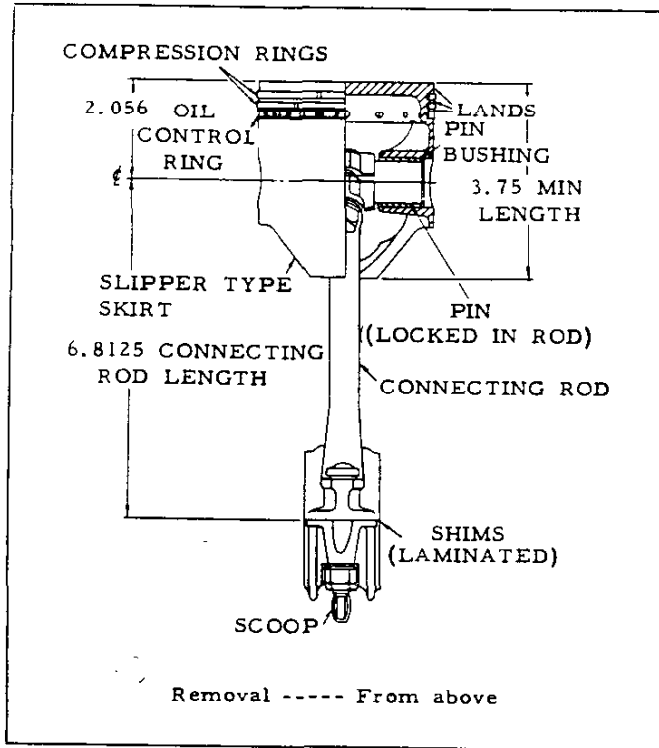
BEARINGS

Material-----Steel-backed babbitt
 Clearance on diameter-----.0015-.0035
 Thrust taken by-----Thrust plate between driven timing gear and camshaft #1 journal front face

| Brg. | Inside Dia. | Length | Proj. Area [⊙] |
|------|---------------|--------|-------------------------|
| #1 | 2.0307-2.0317 | 1-1/8 | 2.285 sq. in. |
| #2 | 1.9682-1.9692 | 15/16 | 1.846 sq. in. |
| #3 | 1.9057-1.9067 | 15/16 | 1.787 sq. in. |
| #4 | 1.8432-1.8442 | 15/16 | 1.728 sq. in. |

⊙ - Based on overall length shown above.

PISTON—PIN—RINGS •



PISTON

Make, material ----- Own, cast alloy iron, surface treated with a wear resistant coating
 Size (dia) ----- 216.5 eng, 3-1/2; 235.5 eng, 3-9/16
 Features ----- Flat head; oval, slipper skirt
 Head thickness at center
 216.5 engine, .180-.190; 235.5 engine, .200-.210
 Land clearance in cylinder bore -----
 ----- 216.5 eng, .015-.024; 235.5 eng, .0145-.0235 x
 Skirt clearance in cylinder bore ----- .0012-.0020
 Feeler gauge fit ----- Pass on .0015, hold on .0025
 Compression ring groove depth:
 216.5 engine ----- .157-.164
 235.5 engine (upper ring) ----- .181-.188
 235.5 engine (lower ring) ----- .158-.165
 Oil ring groove depth -----
 216.5 engine, .170-.177; 235.5 engine, .176-.183
 Oil drain holes; number and size ----- 14, 5/32 drill

CONNECTING RODS

Type ----- Rod clamps piston pin
 Material ----- Drop-forged steel
 Rod width at piston pin ----- 1.125-1.127
 Rod width at crankpin ----- 1.4275-1.4315
 Crankpin bearing:
 Type ----- Spun (centrifugally cast)
 Material ----- High lead babbitt
 Diameter ----- 2.3135-2.3140
 Effective length (overall length less oil groove and chamfers) ----- 1.076

COMPRESSION RINGS - taper face

Type, material ----- Taper face, cast alloy iron, surface treated with a wear resistant coating
 Number per piston ----- 216.5 eng, two; 235.5 eng, one
 Width ----- .1235-.1240
 Wall thickness ----- .155 maximum
 Gap clearance ----- .005-.015
 Ring clearance in groove ----- .0015-.003
 Weight (each) ----- .05 lb

COMPRESSION RINGS - twist type

Type, material ----- Deep section twist, cast alloy iron, treated with wear resistant coating
 Number per piston ----- 235.5 engine, one
 Width ----- .0930-.0935
 Wall thickness ----- .168-.178
 Gap clearance ----- .007-.017
 Ring clearance in groove ----- .0015-.003
 Weight (each) ----- .042 lb

OIL CONTROL RING

Type, material ----- Wide slot, cast alloy iron
 Width ----- .1860-.1865
 Wall thickness: 216.5 engine ----- .155 max
 235.5 engine ----- .160 max
 Gap clearance ----- .005-.015
 Ring clearance in groove ----- .0020-.0035
 Weight (each) ----- .052 lb

PISTON PIN

Material ----- Chromium steel (file hard case)
 Diameter and length ----- .8645-.8650, 3.135-3.165
 Weight ----- .312 lb

PISTON PIN BUSHINGS

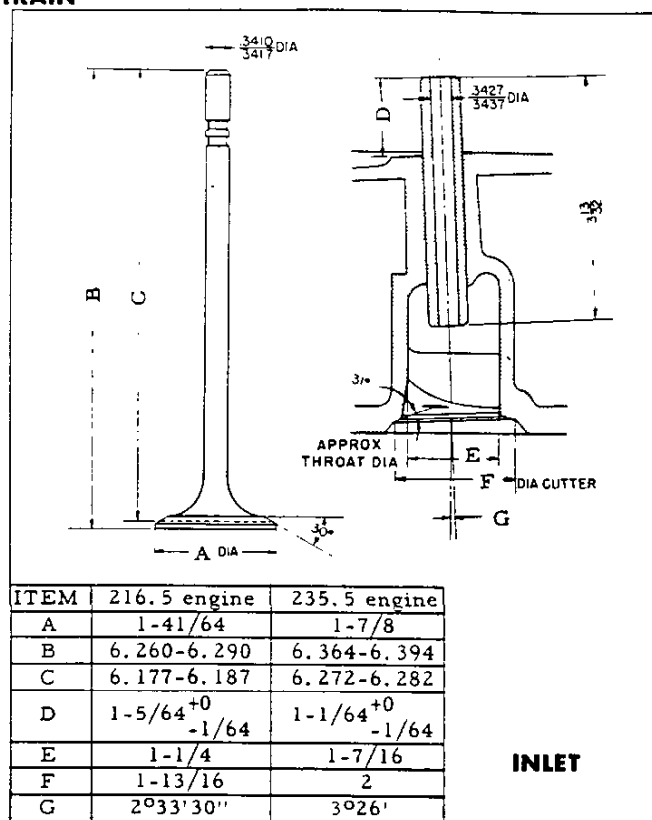
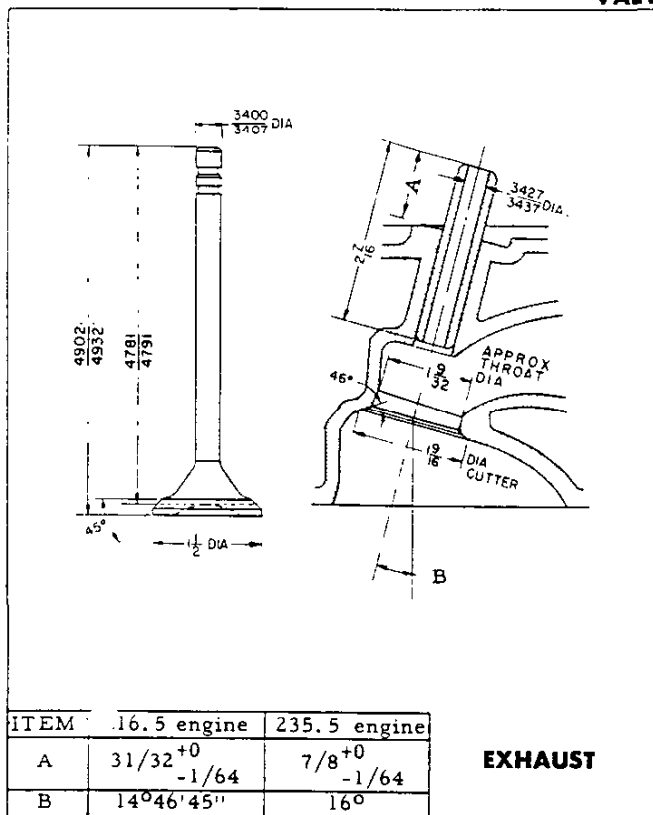
Type ----- Pressed into piston
 Material ----- Cast bronze
 Size ----- 15/16 long x slip fit on piston pin
 Weight (each) ----- .06 lb

WEIGHTS

| Item | 216.5 engine | 235.5 engine |
|---|--------------|--------------|
| Piston alone | 1.712 lb | 1.966 lb |
| Piston and bush assy | 1.824 lb | 2.078 lb |
| Piston, bushings, rings, pin and conn rod upper end x 6 | 16.46 lb | 17.94 lb |

Clearance on diameter ----- .0003-.0015
 Projected area per rod (based on effective length) ----- 2.490 sq. in.
 Assembly weight ----- 1.93 lb
 Upper end weight ----- .46 lb
 Lower end weight ----- 1.47 lb
 Total rotating weight of connecting rods ----- (Weight of lower end x 6) ----- 8.84 lb
 End play ----- .004-.012
 Nut torque, with oiled threads ----- 40-50 ft lb

VALVE TRAIN



VALVES

Make----- Own
 Material: Exhaust valve----- Silchrome steel
 Inlet valve----- Silchrome or Nickle-chrome steel
 Stem end style----- Grooved for keys and oil seal
 Lift: Exhaust valve----- .3118
 Inlet valve----- .2941
 Face angle: Exhaust valve----- 45°
 Inlet valve----- 30°
 Distance between valve centers-----
 ----- 216.5 engine, 1-21/32; 235.5 engine,
 1-35/64 (Measured along centerline of engine)
 Valve lash (engine normalized)*:
 Exhaust----- .013
 Inlet----- .006

* - To normalize engine, run it at fast idle (approximately 600 RPM) until a constant oil temperature is maintained for a period of five minutes.

VALVE STEM GUIDES

Type----- Removable
 Clearance with stem: Exhaust----- .002-.0037
 Inlet----- .001-.0027

VALVE ROCKER ARMS

Material----- Cast malleable iron
 Ratio (cam lift to valve lift)----- 1.477:1
 Torque of valve rocker shaft support bolts and nuts-----
 ----- 25-30 ft lb

Bearing: Type-----Diamond bored rocker arm
 Inside diameter----- .7922-.7935
 Length----- 15/16

VALVE SEATS

Material----- Cast alloy iron (cylinder head)
 Inserts----- None
 Angle: Exhaust seat (in head)----- 46°
 Inlet seat (in head)----- 31°
 Width in head: Exhaust seat----- .062-.093
 Inlet seat----- .035-.060
 Cooling: 216.5 eng----- Jets of water under pressure

TAPPETS

Type----- Cylindrical
 Material----- Cast alloy iron
 Outside diameter----- .989-.990
 Lift: Exhaust----- .2111
 Inlet----- .1991
 Clearance----- Selective fit
 Hydraulic valve lifters----- None

VALVE SPRINGS

LENGTH AND PRESSURE

Valve closed: 216.5 engine----- 1.821 at 53-63 lb
 235.5 engine----- 1.821 at 62-68 lb
 Valve open: 216.5 engine----- 1.505 at 124-140 lb
 235.5 engine----- 1.505 at 155-165 lb
 Free (out of engine) length: 216.5 eng----- 2-1/8
 235.5 eng----- 2-5/32

ENGINE LUBRICATING SYSTEM

METHOD OF LUBRICATION

Type----- Chevrolet
 "Specialized" (pressure, pressure stream and splash)
 Main bearings----- Direct pressure through drilled passages in the cylinder case to the bearings
 Camshaft bearings----- Direct pressure through passages from main bearings
 Timing gears----- Sprayed by nozzle which is fed oil from the camshaft front bearing
 Connecting rod bearings----- Pressure streams directed against connecting rod scoops
 Cylinder bores and piston pins----- Splash
 Valve mechanism:

216.5 engine----- Pressure:
 Oil flows from the main oil gallery through drilled metering passage, past pressure relief hole (to regulate pressure), through metering hole in pipe fitting, piped through water jacket (for temperature conditioning) to rocker shaft and arms. Valve stems, springs and push rod ends are gravity fed from rocker arms.

235.5 engine:
 Oil flows under pressure from rear camshaft bearing through metering hole in pipe fitting, through pipe to valve rocker shaft.

OIL PAN

Capacity----- 5-1/2 qt, dry; 5 qt, for refill
 Drain----- Drain plug in rear of pan
 Torque, corner bolts----- 12-1/2 to 15 ft lb
 Torque, flange screws----- 6 to 7-1/2 ft lb

FUEL TANK

Type----- 2 stamped pans, seam-welded together
 Capacity----- 16 gallons
 Mounting----- Supported by two straps attached to underbody below luggage compartment on sedans and coupes, and between rear axle and spare tire well on Sedan Delivery and Station Wagons
 Filler:
 Location----- In left rear fender
 Protection----- Door in fender, all models except Sedan Delivery and Station Wagons
 Fuel gauge, tank unit, make and type - AC, electric

FUEL PUMP

Make, model----- AC, model AF
 Type----- Mechanical (diaphragm) "high reserve"
 Drive----- From camshaft
 Arm movement----- 1/4 at camshaft
 Air dome----- Yes (inlet and outlet)
 Filter----- Yes (screen in dome)
 Pressure at carburetor----- 3-1/2 to 4-1/2 PSI

FUEL AND VACUUM PUMP - RPO 340

Make, model----- AC, model DB
 Pressure at carburetor----- 3-1/2 to 4-1/2 PSI
 Other fuel pump specifications----- See above
 Vacuum pump type----- Operates only when manifold vacuum is insufficient for windshield wiper action

CARBURETOR

Make, model:
 216.5 engine----- Rochester Products, 7004475
 235.5 engine----- Rochester Products, 7004915

3-16-53

36 - ENGINE

OIL PUMP

Type and drive----- Gear, from camshaft
 Capacity (gallons per minute, hot oil)-----
 ----- 7.16 at 4000 engine RPM
 Normal oil pressure----- 14 PSI at 2000 engine RPM
 Vehicle speed (in high gear) at which normal oil pressure is attained:
 Model 1508----- 39 MPH
 All others----- 43 MPH
 Width of gears----- 13/16
 Oil pressure relief valve opens at----- 60 PSI
 Cleaner type----- 20 mesh,
 .015 non-corrosive steel wire screen, with by-pass

MISCELLANEOUS

Oil filler----- Through valve rocker cover
 Crankcase oil level gauge type----- Rod
 Oil pressure gauge----- In instrument cluster
 Crankcase ventilator type----- Suction
 Oil filter (RPO 237): Make----- AC
 Capacity (dry)----- 1 qt
 Flow----- Approximately 20 gal/hr
 Oil cooler----- None

LUBRICANT RECOMMENDED

| Temperature | Grade |
|---------------------------|--|
| Not lower than 32°F----- | 20W or SAE 20 |
| As low as 10°F----- | 20W |
| As low as minus 10°F----- | 10W |
| Below minus 10°F----- | -----5W when available, or 10W plus 10% kerosene |

FUEL AND EXHAUST SYSTEMS

Type----- Single adjustment, balanced, downdraft
 SAE flange size:
 216.5 engine----- 1-1/4; 235.5 engine----- 1-1/2
 Size (main venturi throat ID):
 216.5 engine----- 1-7/32; 235.5 engine----- 1-11/32
 Choke:
 216.5 engine----- Manual with fast idle link
 235.5 engine----- Automatic
 Idle adjustment, number of turns----- 1 to 2-1/2
 Float level----- 1-5/16, bottom of float to cover

INTAKE MANIFOLD

Manifold heat control----- Automatic (thermostatic)

OCTANE SELECTOR

Type----- On distributor assy, manual, 20° range

AIR CLEANER

| Regular or RPO | Regular | 216C | 216F |
|----------------|---------------|----------------|------|
| Flame arrester | | Yes | |
| Silencer | | Yes | |
| Filter element | Copper ribbon | Cactus fiber | |
| Oil bath | No | 1 lb dirt cap. | |
| Used with gov | No | No | Yes |

EXHAUST SYSTEM

Muffler: Make----- Various
 Type----- Diffusion and resonance, reverse flow
 Size (body outside)----- 5-1/16 x 7-5/16 (oval) x 16
 Exhaust pipe: Type----- Unitized, welded to muffler
 Outside diameter----- 2.0
 Tail pipe inside diameter----- 1-13/16
 Mounting----- Two point rubber suspension

CHEVROLET 1953 SPECIFICATIONS—PASSENGER

ENGINE COOLING SYSTEM

METHOD OF COOLING

Cylinder cooling ----- Full stroke length water jacket with water completely around each cylinder
 Valve seat cooling ----- 216.5 engine only; "Nozzle jet" system directs water under pressure against seats
 Cooling system capacity -----
 ----- 1508. 15 qt; All others, 16 qt •
 Pressurized cooling system ----- Yes
 By-pass for recirculation -----
 235.5 engine only; internal at rear of water pump

RADIATOR CORE

Make and type ----- Harrison, ribbed cellular
 Material ----- All copper
 Size ----- .250 x .560 x 2
 Frontal area ----- 407 sq. in.
 Radiator pressure cap ----- 3-1/2 to 4-1/2 lb
 Drain cocks:
 Number used and size ----- Two, 1/4
 (one at bottom of radiator-right front side, and one at rear of cylinder block-left side)

WATER THERMOSTAT

Make ----- Harrison
 Type ----- Bellows operated poppet valve
 Location ----- In cylinder head water outlet
 By-pass for recirculation ----- None
 Thermostat action at 29" Hg barometric pressure:
 Starts to open, (degrees Fahrenheit) ----- 148-156
 Fully open, (degrees Fahrenheit) ----- 176

ENGINE ELECTRICAL SYSTEM

GENERATOR

Make and model ----- Delco-Remy, 1100018
 Type ----- 2-brush, shunt-wound
 Rated voltage ----- 6-8
 Ventilation ----- By fan in generator pulley
 Driven by ----- Fan belt
 Pulley size ----- 36°V x 3 dia
 Speed ratio (generator to engine) ----- 2.05:1
 Generator RPM/MPH: 216.5 engine ----- 104.5
 235.5 engine ----- 94.30
 Maximum output (controlled charging rate) hot:
 Amperes ----- See current regulator
 Volts ----- See voltage regulator
 Generator RPM ----- 3250 and up
 Car MPH (high gear):
 216.5 engine ----- 31 and up
 235.5 engine ----- 34 and up
 Bearings: Commutator end Drive end
 Number 812823
 Type Bronze bushing Anti-friction
 ID .562-.563 bearings,
 OD .783-.784 See page
 Length 51/64 161
 Brush spring tension ----- 24-32 oz
 Rotation (drive end) ----- Clockwise

RPO 325 GENERATOR EQUIPMENT

| Rating | Delco-Remy Model No. | |
|--------|----------------------|-----------|
| | Generator | Regulator |
| 40 amp | 1105009 | 1118721 |
| 45 amp | 1102793 | 1118725 |
| 50 amp | 1105008 | 1118722 |

RADIATOR HOSE

| Item | Inlet | Outlet |
|-----------------------|--------------------------|----------------------------------|
| Location | Cyl head to rad | Rad to water pump |
| Quantity | 1 | 1 |
| Type | Molded elbow | Compound curve |
| ID | 1-1/4 | 1-1/2 |
| Length | 6-3/4 (developed) | 16-1/2 (developed) |
| Material | Fabric reinforced rubber | |
| Spring re-inforcement | None | Brass coil spring 12-5/8 long |

ENGINE FAN

Make and type ----- Own, 4 staggered blades
 Diameter ----- 15-3/4
 Pulley size ----- 36°V x 4-5/16 outside dia
 Fan to engine speed ratio ----- 1.403:1
 Fan belt: Material, size ----- 1-piece,
 reinforced rubber, 3/8 width, 42-1/2 outside length
 Angle of V --- 37°-44° wrapped molded or cut molded

WATER PUMP

Type and drive ----- Centrifugal, driven by fan belt
 Location ----- On front of cylinder and case
 Capacity ----- 47 gal/minute at 4000 engine RPM
 Impeller type ----- Vane
 Water pump and fan, bearing and shaft assembly:
 Lubrication ----- Permanently lubricated
 Bearing, anti-friction ----- See page 161
 Seal ----- Synthetic rubber, sealed with rubber cement
 Seal adjustment ----- Automatic, by spring tension

VOLTAGE AND CURRENT REGULATOR

Make and model ----- Delco-Remy, 1118725
 Location ----- On wiring access door in dash
 Type ----- Vibrator
 Voltage regulator:
 Volts ----- 7.4
 Temperature ----- Operating
 Average air gap ----- .075
 Current regulator:
 Amperes ----- 45
 Temperature ----- Operating
 Average air gap ----- .075
 Cutout relay:
 Point opening: Amperes ----- 0-4
 Point closing: Volts ----- 6.4
 Generator armature speed ----- 1160 RPM
 Car MPH (high gear):
 216.5 engine ----- 11.1
 235.5 engine ----- 12.3
 Average air gap and point gap ----- .020

BATTERY

Make, model and SAE No. ----- Delco, 15AA6-W, 1M
 Size ----- 9-1/32 long x 7 wide x 8-11/16 high
 Voltage ----- 6
 Capacity ----- 100 ampere hours at 20-hour rate
 Bench normal charging rate ----- 7 amp
 Cell arrangement ----- 3, side-to-side
 Plates per cell ----- 15
 Terminal grounded ----- Negative
 Location ----- At right side under hood

CONTINUED

ENGINE ELECTRICAL SYSTEM—Continued

IGNITION SYSTEM

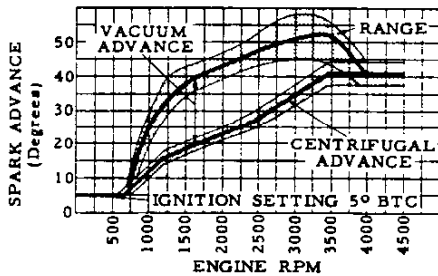
Type----- High intensity spark, engine ground return system, separate units: distributor with centrifugal and vacuum spark advance; oil-filled, hermetically sealed coil
 Ignition lock: Make----- Delco-Remy
 Type-----
 Three position: on, locked off, or unlocked off

DISTRIBUTOR

Make and model: 216.5 eng--- Delco-Remy, 1112362
 235.5 eng----- Delco-Remy, 1112389
 Current source----- Generator or battery
 Breaker contact opening and nominal cam angle:
 With new breaker lever;
 216.5 engine----- .018-.024, 34°
 235.5 engine----- .016-.021, 38°
 With worn breaker lever;
 216.5 engine----- .015-.022, 39°
 235.5 engine----- .0125-.0175, 42°
 Breaker arm tension: 216.5 eng----- 17-21 oz
 235.5 engine----- 19-23 oz
 Vacuum control part no.: 216.5 eng----- 1116061
 235.5 engine----- 1116076
 Condenser: Part no. and capacity---- 1869704, .2 mf

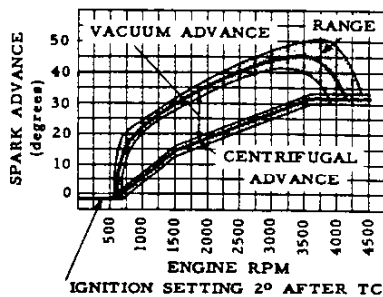
SPARK ADVANCE CURVE - 216.5 ENGINE

| Automatic spark advance | Advance begins | Full advance |
|-------------------------|----------------|-----------------------------------|
| Vacuum control | 7" to 8.5" Hg | 18° to 22° at 16.5" to 18.5" Hg |
| Centrifugal | 550 to 750 RPM | 32.5° to 39.5° at 3450 RPM and up |



SPARK ADVANCE CURVE - 235.5 ENGINE

| Automatic spark advance | Advance begins | Full advance |
|-------------------------|----------------|-------------------------------|
| Vacuum control | 4" to 6" Hg | 17° at 7.5" to 12.5" Hg |
| Centrifugal | 500 to 700 RPM | 32° to 36° at 3600 RPM and up |



STARTING

Starting device----- Positive shift solenoid
 Starting operation----- Turn ignition key to extreme right
 Pinion meshes----- From front of flywheel
 Pinion teeth----- 9
 Flywheel teeth----- 139, 1/2 wide, 13.9 PD
 Flywheel bolt torque (service)----- 50-65 ft lb
 Gear ratio (starter to flywheel)----- 15.44:1

STARTING MOTOR

Make and model----- Delco-Remy, 1107109
 Rotation (front view)----- Counter-clockwise

| Bushings | Commutator end | Drive end |
|----------|--|-------------|
| Type | Rolled bronze with graphite-filled ball indentations on inside surface | |
| ID | .5625-.5635 | .499-.501 |
| OD | .6245-.6255 | .5615-.5625 |
| Length | .812 | |

Testing:

| | | |
|---------------------------|------------------|---------------------|
| | <u>Lock test</u> | <u>No load test</u> |
| Amperage draw----- | 525 | 65 |
| Volts----- | 3.4 | 5 |
| Torque----- | 12 ft lb | ----- |
| RPM----- | ----- | 5000 |
| Brush spring tension----- | 24-28 oz | |

COIL

Make and model----- Delco-Remy, 1115380
 Location----- Engine right side
 Amperes drawn----- 4.5, engine stopped; 2.5, idling

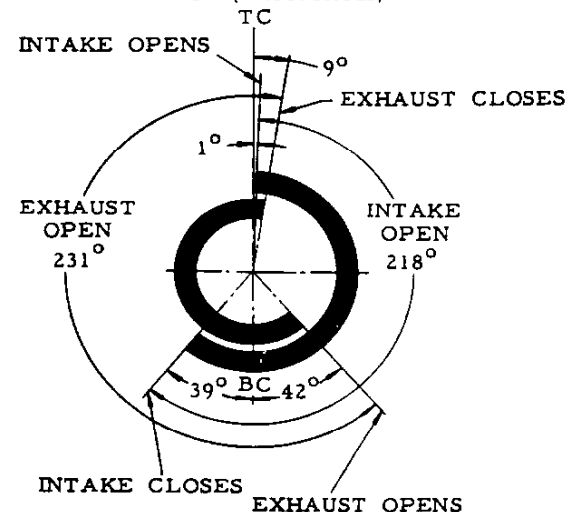
SPARK PLUGS

Make and model----- AC, 44-5
 Thread size----- 14 mm
 Recommended gap----- .033-.038
 Recommended torque (service)----- 15-25 ft lb

ENGINE TIMING

Timing spark advance 216.5 eng----- 5° BTC
 (initial setting): 235.5 eng----- 2° after TC
 Timing marks location----- On flywheel
 Firing order----- 1-5-3-6-2-4

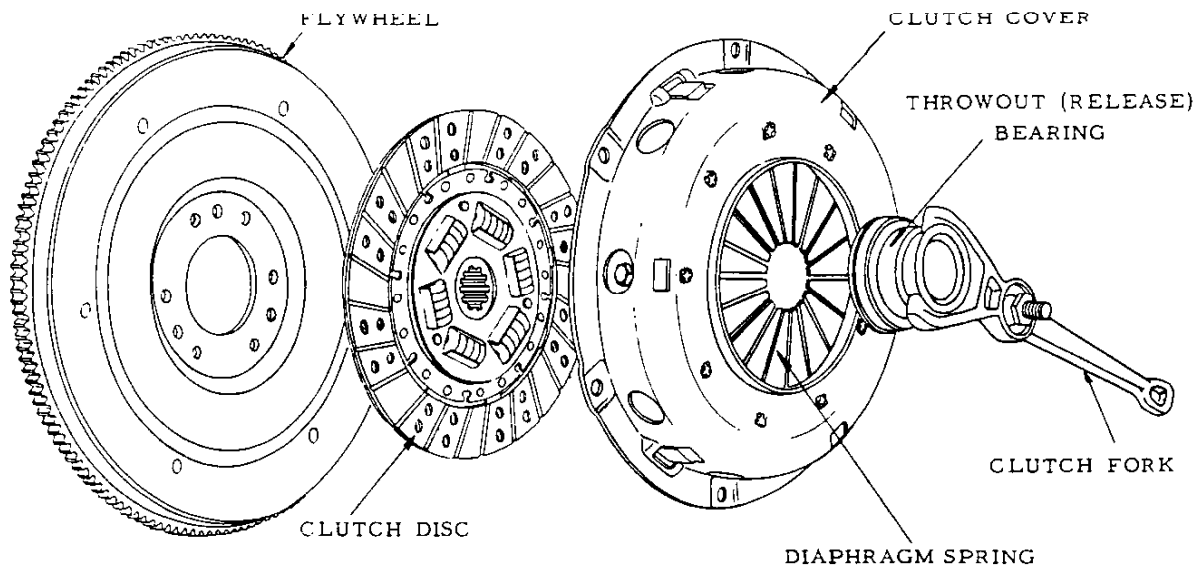
VALVE TIMING (Theoretical)



3-16-53. Revised: 7-1-53, ● - Data corrected.

CLUTCH

REGULAR CLUTCH ILLUSTRATED

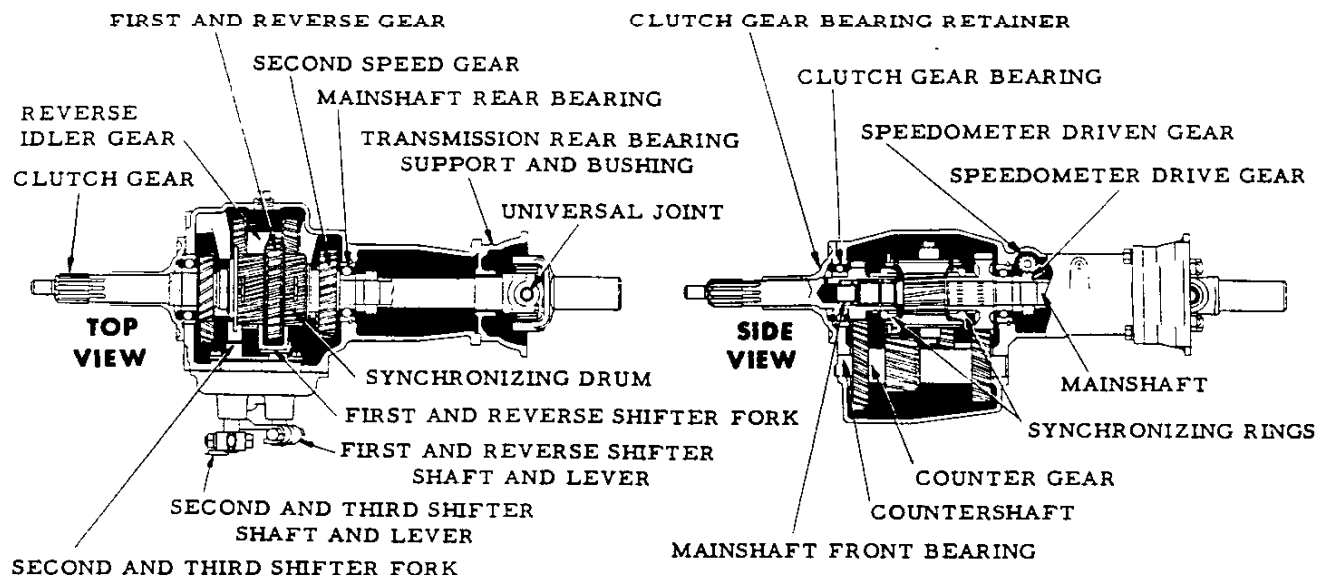


| ITEM | | REGULAR CLUTCH | HEAVY-DUTY TRUCK TYPE RPO 227A | |
|----------------------------------|------------------------------------|---|---|-------------------------------|
| Type | | Single dry plate | | |
| Rated torque capacity | | 210 ft lb | 216 ft lb • | |
| Semi-centrifugal? | | No | | |
| Vacuum control or fluid coupling | | None | | |
| Drive | | Direct to flywheel face | | |
| Ventilation | | Vaness cast in pressure plate | | |
| Diaphragm Spring | Pressure in flat position | 1325-1450 pounds x | 1450-1550 pounds x | |
| | Material | Spring steel, heat treated | | |
| | Pressure levers | 18, integral with spring | | |
| Driving members | | Two (flywheel and pressure plate) | | |
| Driven disc | Type | One, spring cushioned plate with two molded facings | | |
| | Vibration insulation | | 6 cushion springs in hub | |
| | Facings | Material | Woven or molded asbestos composition | |
| | | Outside diameter | 9-1/8 | 10 ♦ |
| | | Inside diameter | 6-1/8 | 6-3/4 ♦ |
| | | Area | 71.86 sq. in. (both facings) | 85.5 sq. in. (both facings) ♦ |
| Thickness | | .132-.138 | .137-.143 | |
| Bearings | Throwout (Release) | Type, make, number | Anti-friction bearings. See page 161 | |
| | | Lubrication | Packed for life | |
| | Pilot (in rear end of crank-shaft) | Make and number | Chev 412562 | |
| | | Type | Sintered graphite-bronze bushing. Oil-impregnated | |
| | | ID | .5905-.5920 | |
| | | OD | 1.0935-1.0945 | |
| Width | .740-.760 | | | |
| Lubrication | Self | | | |
| Controls | Clutch fork type | Drop-forged (pivot mounted on ball) | | |
| | Pedal mounting | On brake main cylinder | | |
| Flywheel | Material | Cast alloy iron | | |
| | Flywheel bolt torque | 50-65 ft lb | | |
| | Weight (with ring gear) | 30 pounds | | |
| | Ring gear type | Steel, shrunk on | | |
| | Ring gear teeth | 139, 1/2 wide, 13.9 PD (9 teeth on starter pinion) | | |
| Clutch attachment to flywheel | | 6 bolts | 9 bolts | |

3-16-53. Revised: 7-1-53, • - Torque capacity increased. x - Spring pressure increased.

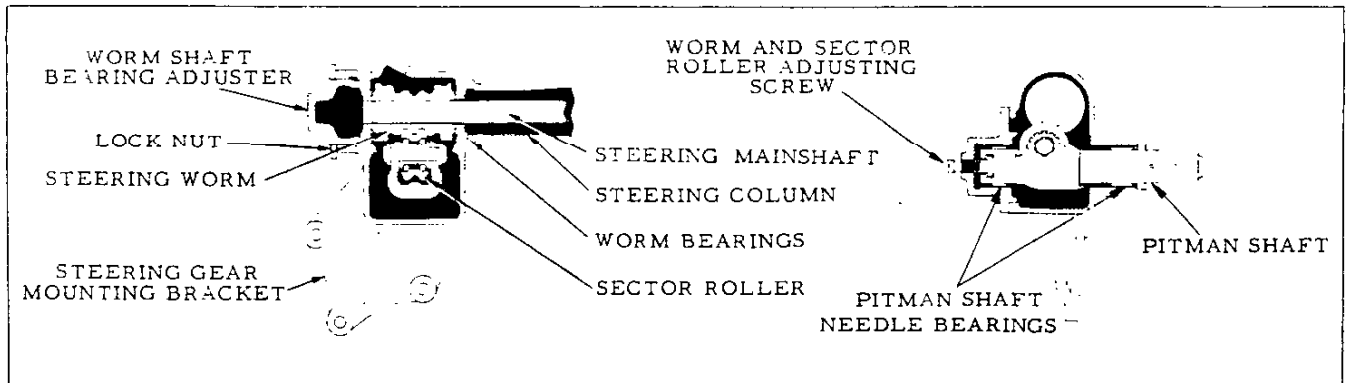
♦ - Facing size changed.

TRANSMISSION



| ITEM | | | Regular | Heavy Duty RPO 316 | |
|-------------------------------------|-----------------------------------|--|---|--------------------|--|
| Make and type | | | Own, 3-speed synchro-mesh, manual shift | | |
| Gearshift control-type and location | | | Remote, mounted on steering column | | |
| Input torque capacity | | | 210 ft lb | | |
| Gears | Type | | All helical | | |
| | Material | | Forged steel, hardened | | |
| | Synchronized speeds | | 2nd and 3rd | | |
| | Constant mesh speeds | | 2nd | | |
| | Sliding gears | | 1st and reverse | | |
| | Ratios | Forward | 1st | 2.94:1 | |
| | | | 2nd | 1.68:1 | |
| 3rd | Direct | | | | |
| | Reverse | | 2.94:1 | | |
| Bushings | Reverse idler | Optional materials | Rolled sheet bronze, ball-indented | | |
| | | No. used and size | 2 - .7515-.7525 ID x 3/4 long | | |
| | Transmission rear bearing support | Optional materials | Rolled sheet bronze, ball-indented | | |
| | | Size | 1.439-1.440 ID x 7/8 long | | |
| | Counter shaft | Material and type | Steel-backed bronze, ball-indented | | |
| | | ID | .8772-.8782 | | |
| OD | | Push fit in ring gauge 1.008 dia | | | |
| Length | | 1-1/4 | | | |
| 2nd gear bearing | Type | Gear ID honed, turns on mainshaft | | | |
| | Size | 1.062-1.063 ID x 1-3/4 long | | | |
| Speedometer gears | Tooth pitch | 18 | | | |
| | Teeth driving and driven | 4 and 12 Sedan Delivery; 4 and 11 all others | | | |
| Lubricant | Type recommended | SAE 90 transmission or mineral oil lubricant | | | |
| | Capacity | 1-1/2 pt | | | |
| Anti-friction bearings | | | See page 161 | | |

STEERING



Type-----Centerpoint

STEERING GEAR

Make and type-----Saginaw, Semi-reversible,
hour glass worm and ball bearing roller sector
Ratio-----19.4:1
Anti-friction bearings-----See page 161
Steering mainshaft diameter-----3/4
Steering column diameter-----1-3/4
Lubricant recommended-----
Steering gear or "Multi-Purpose" gear lubricant
Worm and sector adjustment-----Fully adjustable
Sector mounting type-----Straddle mounted
Pitman shaft:
Material-----Drop forged steel
Mounting-----Straddle mounted

STEERING LINKAGE

Steering idler and third arm:
Material-----One piece, drop forged alloy steel
Mounting-----Pivot
bracket mounted to front suspension cross member
Tie rods-----Left, adjustable; Right, fixed

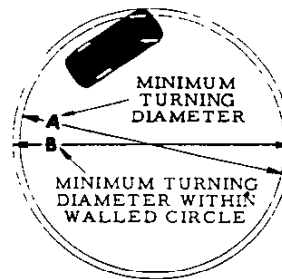
POWER STEERING (RPO 324) ●

Make and type-----Saginaw, Hydraulic
Gear ratio-----21.3:1
Steering assistance provided-----Up to 80%
Pump and reservoir mounting---On left side of engine
Pump drive-----V-belt from pulley on crankshaft

Pitman arm type and material-----
-----One piece, drop forged steel
Steering connecting rod (drag link)-----Yes

STEERING WHEEL

Diameter-----18
One-Fifty models-----Two spoke with horn button
Two-Ten and Bel Air models-----
-----Two spoke with horn blowing ring
Number of turns of wheel for full right to left travel
of front wheels-----4.53



TURNING DIAMETERS

A
Right turn 37 ft
Left turn 38 ft
B
Right turn 40 ft
Left turn 41 ft
Nominal figures based
on tests made at
General Motors Proving
Ground

WHEELS AND TIRES

| WHEEL AND HUB CAP | | | |
|----------------------|----------------------------------|---------------------------------------|-------------------|
| Make and type | Own, short spoke disc | | |
| Attachment to hub | 5 bolts, 7/16-20 | | |
| Bolt circle diameter | 4-3/4 | | |
| Offset and rim size | 9/16, 15 x 5K | | |
| Paint and striping | See Exterior Colors and Finishes | | |
| Hub cap (1500, 2100) | Bright metal with blue trademark | | |
| Wheel disc (2400) | Bright metal with blue trademark | One-Fifty and Two-Ten Series | Bel Air Series |

TIRES

| Tire Size and Ply Rating | Regular or RPO Equipment | Tire and Rim Association Standards* | | | | | |
|--------------------------------|--------------------------------|-------------------------------------|------------------------|---------------|------|----------------------|------|
| | | Loaded Roll- ing Radius | Loaded Rev Per Mile | Load Per Tire | | Recommended Pressure | |
| | | | | Front | Rear | FRONT | REAR |
| 6.70-15-4 | Reg. except 2119 | 13.30 | 748 | 925 | 925 | 24 | 24 |
| 6.70-15-6 | Reg. 2119 RPO all others | 13.40 | 748 | 1055 | 1055 | 30 | 30 |
| 7.10-15-4 | RPO all | 13.40 | 746 | 990 | 990 | 24 | 24 |

* - U.S. Rubber Co. standards shown. Tires furnished are U.S., Goodrich, and Firestone.

LIGHTS

HEADLIGHTS

Make and type-----Guide, sealed beam
 Location-----In front fender faces
 Sealed beam unit diameter-----7
 Dimmed by-----Foot switch (depresses beam)
 Beam indicator location-----In speedometer face

PARKING LIGHTS

Location-----Below headlights; enclosed by the circular ends of the center radiator grille horizontal bar
 Bulb replacement-----
 ----- Remove chrome bezel and glass lens

TAIL AND STOP LIGHTS

Make and type-----Guide, tail and stop light combined in one unit with provision for backing lights and direction signal
 Are tail lights and instrument cluster lights wired in series?-----No

DIRECTION SIGNAL (Factory optional accessory)

Make-----Guide Lamp
 Type-----Flasher, front and rear; self-cancelling
 Front-----Two filament bulb replaces single filament bulb in parking lamps
 Rear-----Uses stop lamp bulbs

PASSENGER COMPARTMENT LIGHTS

Rear compartment lights-----Two in Sport Coupe, one high on each rear side quarter panel

Dome light-----One, all models except Sport Coupe

REAR LICENSE LIGHT

Station Wagons and Sedan Delivery-----
 -----Separate light is imbedded in gravel deflector
 All others-----
 -----Separate light is housed in rear license guard

LIGHTING SWITCHES

Make-----Delco Remy
 Main switch-----Three position "pull" type switch mounted on instrument panel. Main switch has a rheostat operated by rotating the switch knob which controls the brightness of the instrument panel lights
 Stop light switch-----Mechanical, on toe board
 Dome light switches:
 Manual-----At left side of rear seat below arm rest in Sport Coupe and Convertible. At light in all other models
 Automatic-----In both front door body hinge pillars on Two-Ten and Bel Air models; operated by opening door. None on One-Fifty models
 Glove compartment light switch-----Operated by opening compartment door in Two-Ten and Bel Air models

CIRCUIT BREAKER

Type and location-----Bi-metal thermal element, incorporated in main lighting switch
 Capacity-----30 amperes

BULBS

| Used In | | Quantity | Trade No | Power |
|--------------------|-------------|----------|----------|-------|
| Head-lights | Upper beam | 2 | 2400 CC* | 45 w |
| | Lower beam | | | 35 w |
| Parking lights | | 2 | 63 | 3 cp |
| Instrument cluster | | 4 | 55 | 2 cp |
| Beam indicator | | 1 | 51 | 1 cp |
| Ignition lock | | 1 | 51 | 1 cp |
| Glove compartment | | 1 | 55 | 2 cp |
| Clock | | 1 | 63 | 3 cp |
| Dome light | Sport Coupe | 2 | 82 | 6 cp |
| | Convertible | 1 | 55 | 2 cp |
| | All others | 1 | 88 | 15 cp |

| Used In | | Quantity | Trade No | Power |
|------------------------|--------------------------|----------|----------|-------|
| License plate light | | 1 | 63 | 3 cp |
| Tail and stop lights | All Tail | 2 | 63 | 3 cp |
| | Stop | | | |
| Direction signal (FOA) | All Front | 2 | 1154* | 3 cp |
| | Parking light | | | |
| | Direction signal | | | |
| | Rear uses stop lamp bulb | | | |

* Single bulb, double filament

HORNS

Make-----Delco Remy
 Type-----Vibrator
 Number and location-----2, behind radiator grille
 Relay in circuit-----Yes
 Current: High note-----17-19 amperes
 Low note-----19-21 amperes

TOOLS

Jack:
 Capacity-----1200 lb
 Raised height-----Approx 29
 Lowered height-----Approx 6
 Wheel wrench-----Designed to serve also as jack handle and hub cap remover

CHASSIS GENERAL INFORMATION

Chassis lubrication-----High pressure gun

ACCESSORIES

Definition: Items made available at extra cost through the Parts and Accessories Department and installed by the customer or his dealer.

| ITEM | | MODEL | |
|----------------------|--|--|---|
| Alarm | Parking brake | All | |
| Antenna | Radio, fender, LH | All | |
| Arm rest | Door, front (or rear on 4-door sedans) | 1500 | |
| Ash tray | Instrument panel | | |
| Block | Junction, wiring | | |
| Cap | Battery filler | All | |
| | Gasoline tank filler, locking | | |
| Clock | Electric wind | 1500 | |
| | Hand wind | | |
| Condenser | Radiator overflow | All | |
| Cover | Accelerator pedal | All | |
| | Seat | Plastic | All except 1504-08-09, 2109-19-54, 2454 |
| | | Nylon | All except 1504-08-09, 2109-19 |
| | | Fiber | All except 1504-08-09, 2109-19-34-54, 2434-54 |
| Installation kit | All | | |
| Cover panel | Rear wheel | 1500, 2100 | |
| Deflector | Rain | 1502-03, 2102-03, 2402-03 | |
| | Front only | 1504-24, 2124 | |
| Dimmer | Headlamp, Autronic Eye | All | |
| Disc | Wheel trim, stainless steel | 1500, 2100 | |
| Dispenser | Tissue | | |
| Extension | Muffler tail pipe | | |
| Filter | Gasoline | All | |
| | Cooling system | | |
| Frame | License plate | All | |
| Guard | Front fender (on outer end of bumper) | All except 1508-09, 2109-19 | |
| | Rear fender (on outer end of bumper) | | |
| | Grille (across top of front bumper guards) | | |
| | Gasoline tank filler door, fender | | |
| Heater and defroster | Recirculating, with outside air provision | All | |
| | Outside air type | | |
| Lamp | Back-up (pair) | All except 1500 | |
| | Courtesy | | |
| | Portable spot (plugs in cigarette lighter) | | 1500 (with cigarette lighter), 2100, 2400 |
| | Under hood | | All |
| | Glove compartment | | 1500 |
| | Luggage compartment | | All except 1508-09, 2109-19 |
| Lighter | Spot, LH, Guide, with bracket and mirror | All except 1509, 2109-19 | |
| | Cigarette, with lamp | 1500, Replacement for 2100-2400 | |
| Mat | Floor (Blue, Red, Green, Black) | All | |
| Mirror | Rear | Door-front, clamp type | All |
| | | Door-front, mounted below ventipane | All except 1508 |
| | View | Door, remote control | All except 1509, 2109-19 |
| | | Door, rain deflector, clamp type | All |
| | Non-glare (prismatic), inside | All except 1508 | |
| Visor vanity | All | | |
| Molding | Wheel, stainless steel | All except 2400 | |
| Ornament | Hood | | |
| Radio | Delco (manual tuning), and antenna | All | |
| | Delco (push-button tuning), and antenna | | |
| | Speaker, auxiliary rear seat | All except 1508-09, 2109-19-34, 2434 | |
| Reflector | Reflex, 4 inch, red | All | |
| Shaver | Electric | | |
| Shield | Front fender, pair | 2100, 2400 | |
| | Windshield, glare | All except 1509, 2109-19 | |
| | Door handle | All | |
| Signal | Direction, self-cancelling | All | |
| Sunshade | Right hand | 1502-03-04-24 | |
| Sun visor | Outside type | All except 1508-09, 2109-19-34-54, 2434-54 | |
| Tool kit | Bag with tools | All | |
| Trim ring | Wheel, white plastic | 1500, 2100 | |
| Viewer | Traffic light | All | |
| Washer | Windshield | | |

REGULAR PRODUCTION OPTIONS

Definition: Items released by the Engineering Department for installation at the assembly plant at the customer's request, in addition to or in place of regular equipment, and usually at extra cost.

| GROUP | RPO | ITEM | MODEL |
|--|-----|--|---|
| Exterior and Interior Color Combinations | 231 | Exterior colors | See pages 20, 21 |
| | 235 | Exterior colors | |
| | 236 | Exterior and interior color combinations | |
| | 238 | Exterior and interior color combinations | |
| | 437 | Exterior and interior color combinations | |
| | 435 | Body interior trim combinations | |
| Body glass | 398 | Body glass equipment, tinted (E-Z Eye glass) | All |
| Taxicab | 330 | Heavy-duty clutch 19% larger than standard clutch, equipped with a special heavy pull back spring • | 1503, 2103 |
| | | HD transmission with special countershaft roller bearings | |
| | | Special service front springs | |
| | | Special clutch and brake pedal shaft lubrication fittings | |
| | | Special fast filling gasoline filler signal | |
| | | RPO 330A, G, H Cloth trim | |
| | | RPO 330B, J, K Vinyl coated trim | |
| | | Extra heavy black rubber floor mats with special water resistant floor covering front and rear. Special heavy-duty front and rear seat cushion and back springs. Arm rest door pull handles, rear doors. Special automatic dome light switch operated by right hand rear door. | |
| Suspension | 254 | Heavy rear springs | |
| Engine | 237 | Oil filter | All |
| | 340 | Vacuum booster fuel pump | |
| | 216 | Air cleaner, oil bath (one pound dirt capacity) | |
| | 241 | Governor (RPO 216 air cleaner mandatory with RPO 241) | |
| Clutch | 227 | Heavy-duty | All except RPO 313 |
| Transmission | 316 | Heavy-duty | All except RPO 313 and 330 |
| | 313 | Automatic (Powerglide). See supplement - pages 45-52 | 2100, 2400 |
| Tires with regular wheels | 288 | 6.70-15-6 ply (five) | All except 2119 and RPO 313 on 2134 and 2434 |
| | 290 | 6.70-15-4 ply (five), white and black sidewall | All except 1508, 2119 and RPO 313 on 2134 and 2434 |
| | 288 | 6.70-15-6 ply (five), white and black sidewall | 1509, 2109-19 |
| | 283 | 7.10-15-4 ply (five) | 2134, 2434 with RPO 313 only |
| | 297 | 7.10-15-4 ply (five) white and black sidewall | All except 2119 |
| Steering | 323 | Steering gear equipment (color combinations) | 2100, 2400 |
| | 324 | Hydraulic steering | All except 1508 and RPO 227 and 330 |
| Generator | 325 | Generator equipment 40 amp | All except 2134-54, 2434-54 |
| | | 45 amp | All |
| | | 50 amp | All except 2134, 2434 |
| Timing gear equipment | 219 | Aluminum camshaft gear | All except 1508. Not used with RPO 227, 313, 324, 330 |

4-1-53. Revised: 7-1-53. • - Clutch capacity increased.

AUTOMATIC TRANSMISSION OPTION—Supplement

**POWERGLIDE
AUTOMATIC TRANSMISSION
SUPPLEMENT**

Regular Production Option #313

Supplementing the data given in the preceding "Passenger Car" section of this book, the following information shows those specifications that are peculiar to passenger car models equipped with Powerglide automatic transmission.

AUTOMATIC TRANSMISSION OPTION—Supplement

SERIAL NUMBERS

For vehicle and unit serial numbers, see page 9

FRONT SUSPENSION

Front spring-----All models, same as regular spring for models 2134 and 2434. See page 25

BODY

Floor mat, front-----Clutch pedal hole omitted
 Toe pan, clutch pedal hole-----
 -----Sealed with felt and cemented
 Exterior identification-----
 -- "POWERGLIDE" inscription on rear deck handle

UNIVERSAL JOINT

Lubrication-----Pressure, from transmission

REAR AXLE AND DRIVE

Final drive gears:

Ratio----- 3.55:1
 Teeth----- 11 and 39
 Total torque multiplication (final drive gears, transmission, torque converter and planetary gears):
 Drive----- 3.55:1 to 7.46
 Low-----6.46:1 to 13.57
 Reverse-----6.46:1 to 13.57

SPEEDOMETER GEARS

Drive gear-----5-tooth, 22 pitch
 Material----- Steel
 Driven gear-----13-tooth, 22 pitch
 Material----- Nylon

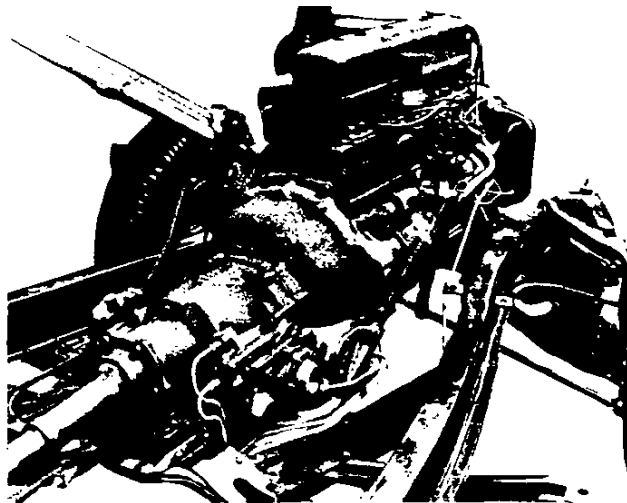
VEHICLE WEIGHTS

| TWO-TEN § | | | | | | | | | | |
|--------------|----------------|-----------------|------|-------|-------------|------|-------|---------------|------|-------|
| Vehicle Type | | Shipping Weight | | | Curb Weight | | | Loaded Weight | | |
| Model | Description | Front | Rear | Total | Front | Rear | Total | Front | Rear | Total |
| 2102P | 2-Door Sedan | 1850 | 1455 | 3305 | 1875 | 1560 | 3435 | 2200 | 2135 | 4335 |
| 2103P | 4-Door Sedan | 1865 | 1480 | 3345 | 1890 | 1585 | 3475 | 2215 | 2160 | 4375 |
| 2109P | Station Wagon | 1845 | 1760 | 3605 | 1870 | 1865 | 3735 | 2170 | 2465 | 4635 |
| 2119P | Station Wagon* | 1840 | 1880 | 3720 | 1865 | 1985 | 3850 | 2105 | 2945 | 5050 |
| 2124P | Club Coupe | 1860 | 1440 | 3300 | 1885 | 1545 | 3430 | 2235 | 2095 | 4330 |
| 2134P | Convertible§ | 1965 | 1590 | 3555 | 1990 | 1695 | 3685 | 2290 | 2145 | 4435 |
| 2154P | Sport Coupe | 1890 | 1500 | 3390 | 1915 | 1605 | 3520 | 2250 | 2170 | 4420 |
| BEL-AIR | | | | | | | | | | |
| 2402P | 2-Door Sedan | 1860 | 1475 | 3335 | 1885 | 1580 | 3465 | 2210 | 2155 | 4365 |
| 2403P | 4-Door Sedan | 1865 | 1500 | 3365 | 1890 | 1605 | 3495 | 2215 | 2180 | 4395 |
| 2434P | Convertible § | 1955 | 1600 | 3555 | 1980 | 1705 | 3685 | 2280 | 2155 | 4435 |
| 2454P | Sport Coupe | 1900 | 1525 | 3425 | 1925 | 1630 | 3555 | 2260 | 2195 | 4455 |

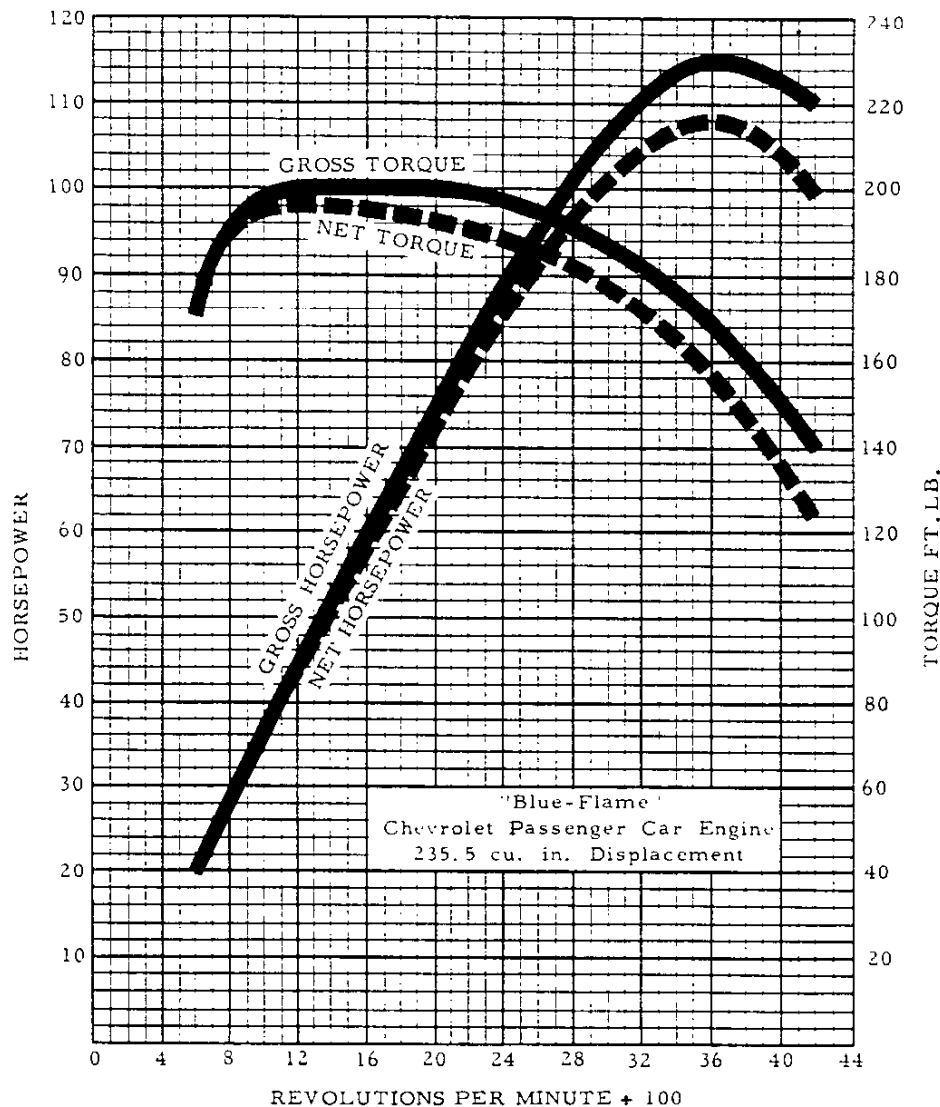
* - Equipped with 6.70-16-6 pr tires as regular equipment.

§ - Equipped with 7.10-15-4 pr tires as mandatory RPO equipment.

¶ - For vehicle weight definitions, see page 10.



ENGINE PERFORMANCE



The engine performance curves shown on this sheet are taken from Chevrolet engine test report 10950-241. They represent the full throttle performance of a Blue-Flame Chevrolet passenger car engine (235.5 cu. in. displacement) as obtained from dynamometer test data which were corrected to the standard barometric pressure 29.92" Hg. 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.

March 16, 1953
The data on this sheet are true as represented.
Chevrolet - Central Office - Engineering Dept.
Division of General Motors Corporation

H. F. Barr
H. F. Barr
Assistant Chief Engineer

State of Michigan
County of Wayne

On this 16th day of March 1953, personally appeared before me, H. F. Barr, known to me to be such, who makes oath that the data on this sheet are true as represented.

H. H. Woodward
Notary Public, Wayne County
My commission expires August 2nd, 1953

AUTOMATIC TRANSMISSION OPTION—Supplement

ENGINE BASIC DESIGN DATA

Type ----- Valve-in-head
 Number of cylinders ----- 6
 Bore and stroke (nominal) ----- 3-9/16 x 3-15/16
 Piston displacement (cu. in.) ----- 235.5
 Compression ratio (no option) ----- 7.5:1
 Taxable (SAE) horsepower ----- 30.4
 Engine idling speed (RPM) ----- 425 in drive

ENGINE SPEED AND PISTON TRAVEL §

| | | |
|---------------------------------|--------------------|----|
| Rear axle ratio | 3.55:1 | |
| Tires | 6.70-15 or 7.10-15 | |
| Crankshaft revolutions per mile | 2655 | |
| Crankshaft RPM at one MPH | Low | 80 |
| | Drive | 44 |
| Piston travel (ft/mile) | 1742 | |

ADVERTISED MAXIMUM ENGINE PERFORMANCE

Gross brake horsepower ----- 115 at 3600 RPM
 Net brake horsepower ----- 108 at 3600 RPM
 Gross torque (ft lb) ----- 200 at 2000 RPM
 Net torque (ft lb) ----- 196.5 at 1000 RPM

DRY WEIGHTS

Engine ----- 550 lb
 Engine and automatic transmission ----- 766 lb

ADVERTISED CAR PERFORMANCE

The following information is based on model 2103P, 4-Door Sedan, at performance weight (curb weight, plus 600 pounds to represent four passengers):

FLYWHEEL

Material ----- Steel stamping with reinforcement
 Ring gear type ----- Steel, welded to flywheel
 Weight (with ring gear and reinforcement) ----- 6.7 lb

CAMSHAFT

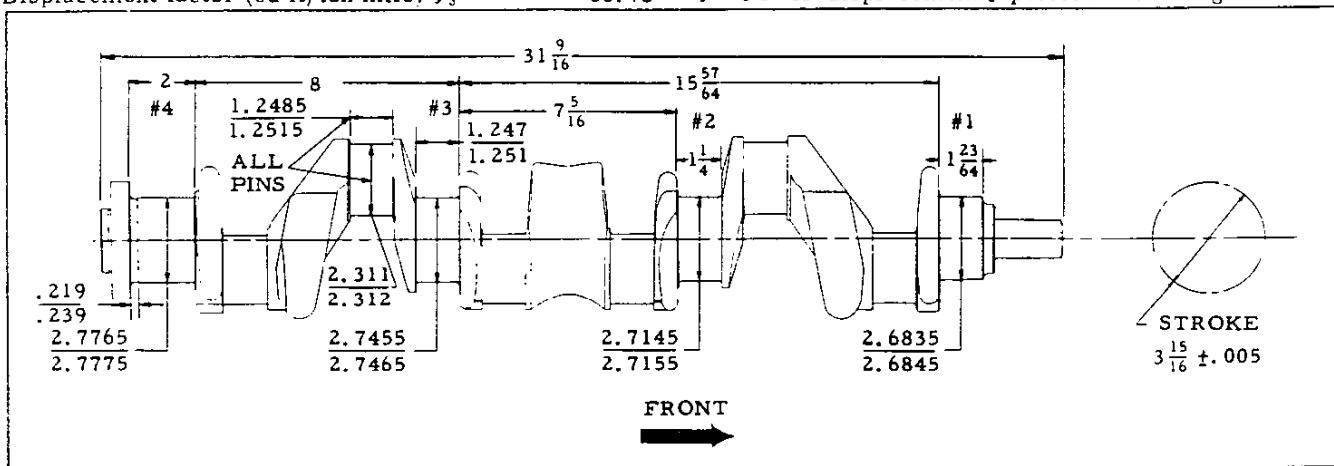
Ramp, inlet and exhaust ----- .0051, 23° long

Performance weight (pounds) ----- 4075
 Pounds/gross horsepower ----- 35.43
 Pounds/cu. in. piston displacement ----- 17.31
 Gross horsepower/cu. in. displacement ----- .49
 Power displacement (cu ft/mile) *§ ----- 180.9
 Displacement factor (cu ft/ton mile) †§ ----- 88.78

* - $\frac{\text{Crankshaft rev/mile} \times \text{piston displacement}}{1728} \div 2$

§ - These data are computed assuming zero slippage in the torque converter.

† - Power displacement \div performance weight in tons.



CRANKSHAFT

Weight ----- 78.5 lb.
 End play ----- .0035-.0095

COMPRESSION RINGS

Material ----- Cast alloy iron, surface-treated with a wear-resistant coating
 Type ----- Deep section, twist
 Number per piston ----- Two
 Width ----- .0930-.0935
 Wall thickness ----- .168-.178
 Gap clearance ----- .007-.017
 Ring clearance in groove ----- .0020-.0035
 Weight (each) ----- .042 lb

MAIN BEARINGS

Material ----- .003-.005 babbitt on steel shell
 Brg. Inside dia. Length Proj. Area ‡

| | | | |
|----|---------------|---------------|-----------------|
| #1 | 2.6850-2.6866 | 1-3/32 | 2.415 sq. in. |
| #2 | 2.7160-2.7176 | 15/16 | 2.019 sq. in. |
| #3 | 2.7470-2.7486 | 1.2415-1.2435 | 2.209 sq. in. |
| #4 | 2.7780-2.7796 | 1-7/32 | 2.776 sq. in. ● |

‡ - Based on effective length, i.e. overall length shown above, less oil groove and chamfers.

OIL CONTROL RING

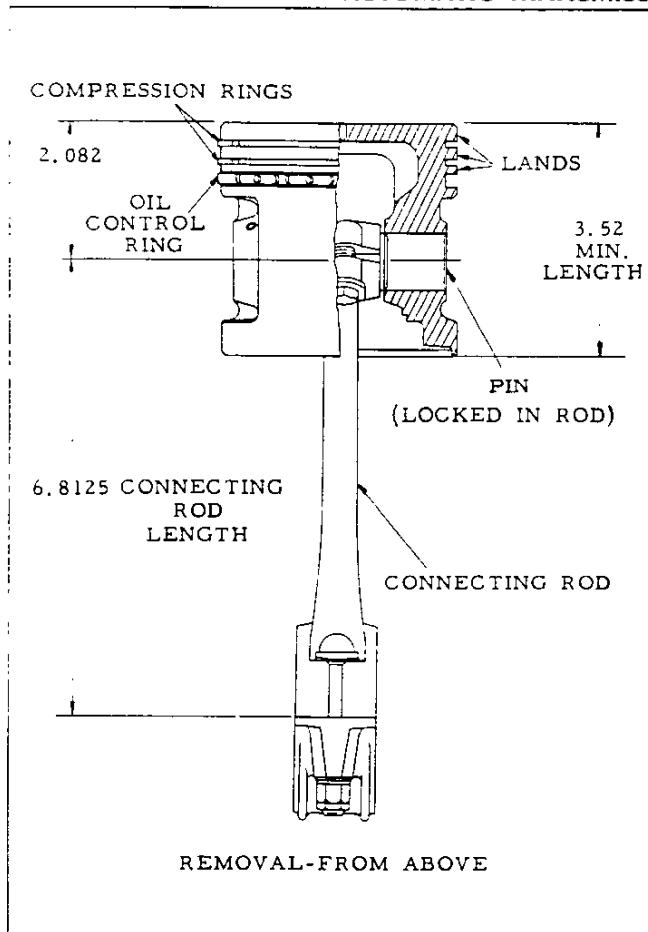
Material ----- Cast alloy iron
 Type ----- Wide-slot with expander
 Width ----- .1860-.1865
 Wall thickness ----- .134-.141
 Gap clearance ----- .005-.015
 Ring clearance in groove ----- .0015-.0030
 Expander type ----- Eight crimp spring steel
 Weight: Oil control ring ----- .040 lb
 Expander ----- .005 lb

PISTON PIN

Material ----- Chromium steel (file hard case)
 Diameter ----- .8660-.8665
 Length ----- 3.198-3.228
 Taper limit in full length ----- .0002
 Weight ----- .320
 Clearance in piston ----- .00015-.00025 ●

3-16-53. Revised: 7-1-53. ● - Dimension corrected; X - Page number changed.

AUTOMATIC TRANSMISSION OPTION—Supplement



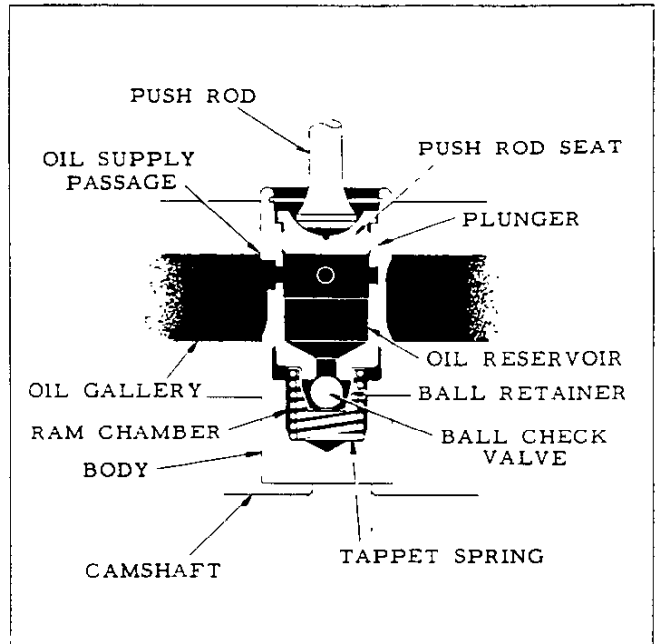
PISTON

| | |
|--|--|
| Make | Own |
| Features | Flat head, tin plated, oval with controlled thermo expansion |
| Material | Cast alloy aluminum with steel struts |
| Skirt clearance in cylinder bore | .0002-.0006 x |
| Land clearance in cylinder bore | .023-.031 x |
| Compression ring groove depth | .184-.192 |
| Oil ring groove: Depth | .184-.192 |
| Holes, number and size | 8, 5/32 drill |
| Head thickness at center | .235-.245 |
| Piston pin bushings | None |
| Weight of piston | 1.190 lb |
| Weight of piston, rings, pin and connecting rod upper end x 6 (units/engine) | 12.56 |

CONNECTING RODS

| | |
|--|----------------------------------|
| Rod width at piston pin | 1.126-1.129 |
| Rod width at crankpin | 1.2415-1.2435 |
| Crankpin bearing: | |
| Type | Precision interchangeable insert |
| Material | Steel backed, thin wall babbitt |
| Diameter | 2.3127-2.3138 |
| Effective length (overall length less chamfers) | .998 |
| Clearance on diameter | .0007-.0028 |
| Projected area per rod (based on effective length) | 2.3086 |

| | |
|--|-------------|
| Assembly weight | 1.99 lb |
| Upper end weight | .454 lb |
| Lower end weight | 1.53 lb |
| Total rotating weight of connecting rods (weight of lower end x 6) | 9.19 lb |
| End play | .005-.012 |
| Recommended nut torque, with oiled threads | 35-45 ft lb |



HYDRAULIC VALVE LIFTERS

| | |
|----------------------------------|--|
| Make | G. M. Diesel |
| Material: Lifter body | Cast iron |
| Lifter plunger and push rod seat | Steel |
| Lift: Exhaust and inlet | .2217 |
| Oil flow | Oil enters the valve lifter oil gallery through a drilled passage from the camshaft rear bearing where it flows to the hydraulic lifters. Oil enters the valve lifters through holes in the side of the lifter body and plunger. Oil enters the ram chamber around the steel ball. |

VALVES

| | |
|--------------------------------|---------------------------------------|
| Inlet valve | Treated with a wear-resistant coating |
| Lift: Inlet and exhaust valve | .3275 |
| Valve lash (hydraulic lifter): | |
| At time of assembly | Basic adjustment |
| During operation | Self-adjusting |

ENGINE LUBRICATION SYSTEM

| | |
|--|---------------|
| Type | Full pressure |
| Oil from main bearings flows through drilled passages in the crankshaft to the connecting rod bearings. The cylinder walls and piston pins are sprayed by oil metered through a hole in the connecting rod journal boss. | |
| Oil from the camshaft rear bearing flows into the valve lifter oil gallery. | |
| Oil cooler | See page 51 |

3-16-53. Revised: 7-1-53. • - Features expanded. x - Dimensions changed.

AUTOMATIC TRANSMISSION OPTION—Supplement

ENGINE OIL PUMP

Normal oil pressure----- 45 psi at 1170 - 1200 • engine RPM (Equivalent car speed: Variable)
Capacity (gallons per minute, hot)-----
----- 4.30 at 1170-1200 engine RPM
Width of gears ----- 1

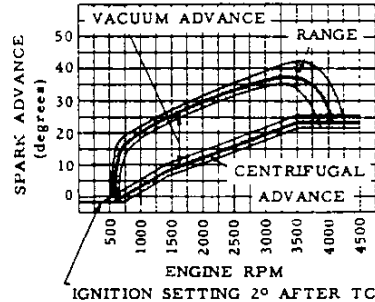
CARBURETOR

Make and model----- Rochester Products, 7004478
Type----- Single adjustment, downdraft
SAE flange size----- 1-1/2
Size (main venturi throat ID) ----- 1-11/32

DISTRIBUTOR

Make and model----- Delco-Remy, 1112388

| Automatic spark advance | Advance begins | Full advance |
|-------------------------|----------------|-------------------------------|
| Vacuum control | 4" to 6" Hg | 17° at 17.5" to 12.5" Hg |
| Centrifugal | 450 to 750 RPM | 24° to 28° at 3500 RPM and up |



RADIATOR HOSE

| Item | Outlet | |
|----------------------|--------------------------|----------------------|
| Location | Rad to oil cooler | Cooler to water pump |
| Quantity | 1 | 1 |
| Type | Straight | |
| ID | 1-1/2 | |
| Length | 4-15/16 | 2-5/8 |
| Material | Fabric reinforced rubber | |
| Spring reinforcement | None | |

RADIATOR CORE

Frontal area----- 407.36 sq. in.

GENERATOR

Generator RPM/MPH----- Variable
Maximum output (controlled charging rate):

Car MPH----- Variable

VOLTAGE AND CURRENT REGULATOR

Cutout: Car MPH when points close----- Variable

STARTING MOTOR

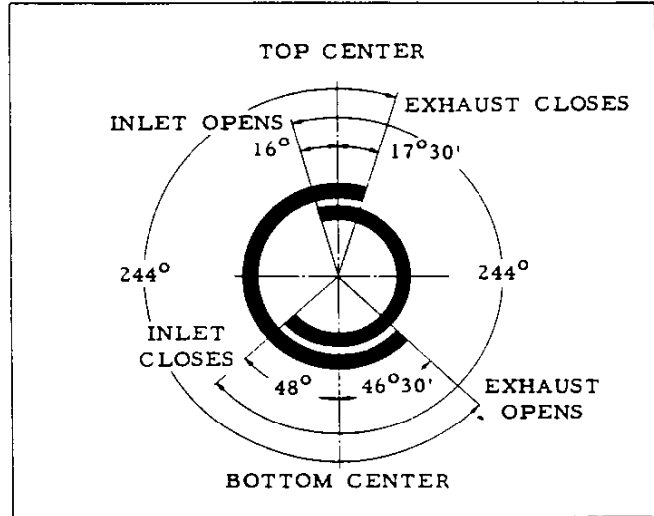
Circuit:

Ignition switch is wired in series with the neutral safety switch located on the lower end of the steering column control and permits operation of the starting motor with the transmission control in "Neutral" or "Park" positions only.

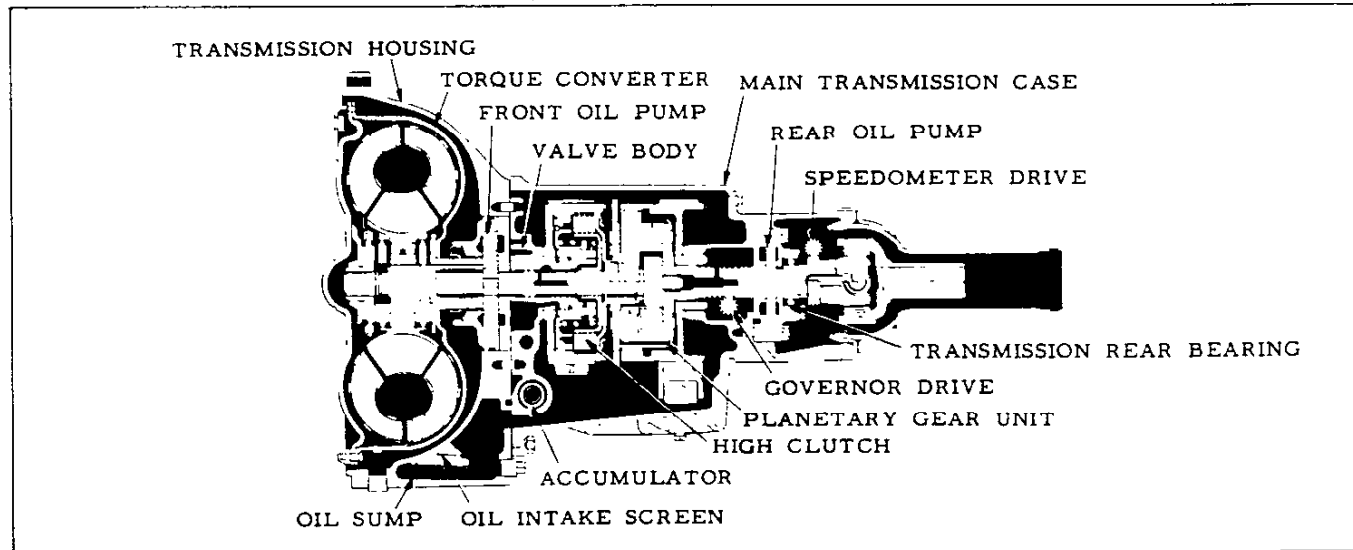
Starting operation-----

-----With transmission control in "Neutral" or "Park" position, turn ignition key to extreme right

VALVE TIMING-Theoretical



AUTOMATIC TRANSMISSION



3-16-53. Revised: 7-1-53, • - Data corrected.
50 - AUTOMATIC TRANSMISSION

CHEVROLET 1953 SPECIFICATIONS—PASSENGER

AUTOMATIC TRANSMISSION OPTION—Supplement

AUTOMATIC TRANSMISSION-GENERAL

Make and type----- Own, automatic hydraulic torque converter with planetary gear system for reverse and low

Rated torque capacity----- 204 ft lb (input)

Converter maximum torque ratio (at stall)----- 2.1:1

Total transmission torque multiplication (converter x planetary gear ratio):

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

Low range (auto or manual)----- 3.82:1 to 1.82:1

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

Oil type----- Automatic transmission fluid, type A

Oil capacity ----- 11 quarts; refill, 5 quarts •

Oil level gauge and filler tube:

Location----- On right side of transmission, accessible from engine compartment

Gauge type-----

Bayonet, mounted in breather type filler tube cap

Oil cooler make and location-----

-----Harrison, located in engine cooling system between radiator outlet and water pump inlet

Selector lever:

Location----- On steering column

Operation-----

Actuates manual valve in hydraulic control system

Positions----- Five, (left to right) Park-Neutral-Drive-Low-Reverse

Parking lock:

Type----- Pawl and gear

Operation-----

Applied by selector lever through positive linkage

Automatic shift:

Type----- Hydraulic spool valve controlled by throttle valve and governor

Throttle valve:

Type----- Spool

Actuation----- Accelerator linkage

Location----- In automatic shift valve body

Operation----- Regulates main line oil pressure to automatic shift valve

Governor:

Type----- Centrifugal

Drive----- From transmission output shaft

Location-----

Accessible from rear of transmission, left side

Operation----- Regulates oil pressure from rear oil pump to automatic valve

Representative shift points:

| Accelerator pedal pressure | Miles per hour | |
|----------------------------|----------------|-----------|
| | Upshift | Downshift |
| Low | 10-1/2 | 9 |
| High (at detent) | 29 | 16-1/2 |
| High (through detent) | 42 | 37 |

HYDRAULIC TORQUE CONVERTER

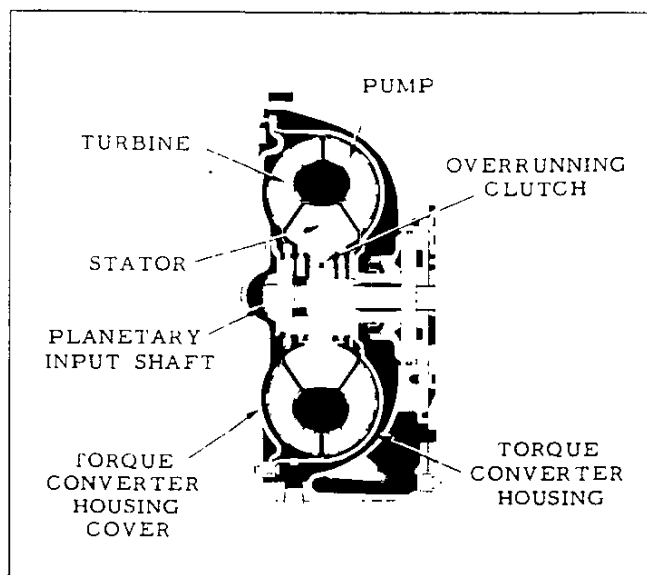
Type ----- Three element

Driving member (pump)----- Sheet metal, multi-vane type, spot welded 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.



PLANETARY GEAR UNIT

Type----- Compound planetary

Gear ratios:

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

Low range----- 1.82:1

Reverse----- 1.82:1

Input shaft:

Material ----- Steel, heat treated

External splines:

Turbine----- 17 teeth

Clutch hub----- 19 teeth

Reverse sun gear----- 19 teeth

Output shaft:

Material ----- Steel, heat treated

Splines----- External, 10 teeth

Low sun gear:

Material----- Steel, case hardened

Gear teeth----- 23, external

Splines----- External, 23 teeth

Reverse (input) sun gear:

Material ----- Steel, case hardened

Gear teeth----- 28, external

Splines----- Internal, 19 teeth

Long pinions:

Number used per assembly----- Three

Material----- Steel, case hardened

Gear teeth----- 18, external

Short pinions:

Number used per assembly ----- Three

Material ----- Steel, case hardened

Gear teeth----- 28, external

Parking lock gear:

Material ----- Steel with induction hardened teeth

Gear teeth----- 61, external

Planet carrier:

Construction-----

----- Steel stamping, riveted to output shaft

Reverse gear and drum:

Material----- Cast iron

Gear teeth----- 79, internal

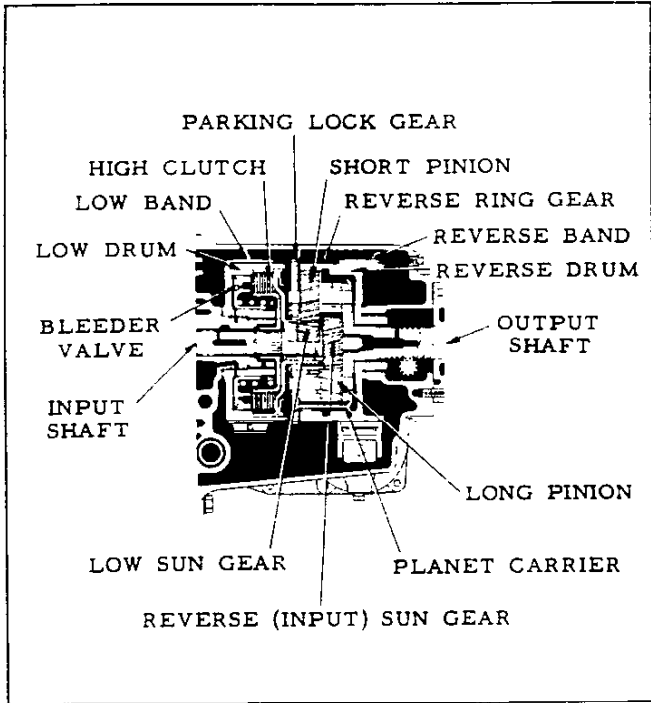
Reverse brake band:

Material----- Malleable iron

Lining----- Molded metallic bonded and grooved

3-16-53, Revised: 7-1-53, • - Oil capacity information changed.

AUTOMATIC TRANSMISSION OPTION—Supplement



HIGH CLUTCH

Type----- Multiple-disc
 Discs:
 Driving, number and type-----
 Four, steel with cork and paper facings, bonded
 Driven, number and type----- Five, steel
 Drum:
 Material----- Cast iron
 OD----- 5.867-5.872
 Bleeder valve:
 Location----- In front face of clutch piston
 Type----- Ball
 Hub:
 Material----- Stamped steel
 Splines----- Internal, 19 teeth
 Flange:
 Material----- Stamped steel
 Splines----- Internal, 23 teeth
 Spring:
 Type and ID----- Coil, 2.750-2.800
 Length and pressure----- Approx
 3-1/16 (free), 1-23/64 at 185 lb, 1-7/32 at 200 lb
 Piston type and material-----
 ----- Annular, aluminum alloy die casting
 Size----- 4.748-4.752 OD, 2.498-2.500 ID

Low brake band:

Material----- Cold rolled steel
 Lining----- Molded metallic, bonded and grooved

HYDRAULIC CONTROLS

Oil intake screen: Type----- Double
 screen; outer - .60 x 40 mesh, inner - 8 mesh
 Location----- Transmission housing oil sump
 Oil pumps: Type----- Internal external gear
 Location:
 Front----- In rear of transmission housing
 Rear----- In rear of transmission case
 Number of teeth:
 Front----- 31 internal, 25 external
 Rear----- 25 internal, 20 external
 Transmission rear bearing:
 Make----- New Departure
 Type----- 3205, single row ball
 Main valve body:
 Material----- Cast iron
 Location----- Bolted to rear of transmission housing
 Manual valve:
 Material----- Hardened steel
 Type----- Land and groove sliding
 Operated by----- Selector lever through linkage
 Check valve:
 Material----- Flat spring steel
 Type----- Two passage check, hairpin shaped
 Accumulator:
 Type----- Spring-loaded piston
 Starts to fill----- 55 PSI
 Pressure regulator valve:
 Type----- Land and groove sliding
 Pressure range:
 Automatic cruising----- 45 to 150 PSI
 Automatic low----- 45 to 150 PSI
 Manual low----- 160 to 200 PSI
 Reverse----- 160 to 200 PSI
 Neutral----- 45 to 150 PSI
 Park----- 0 PSI
 Modulator:
 Location----- Servo cover, right side
 Type----- Vacuum and hydraulic
 Low band servo:
 Type----- Piston, 1 release spring
 Adjustment----- Threaded anchor bolt
 Reverse band servo:
 Type----- Piston
 with release spring and inner cushioning spring
 Adjustment----- Threaded anchor bolt
 Thermostatic by-pass valve:
 Location----- Servo cover
 By-pass closes----- 240°F

AUTOMOBILE MANUFACTURERS ASSOCIATION CONSOLIDATED SPECIFICATION QUESTIONNAIRE

Page

| | | |
|--------------|---|-----------------------------------|
| NAME OF CAR: | CHEVROLET | MODEL NAME SEDAN DEL. SYMBOL 1508 |
| COMPANY: | CHEVROLET DIVISION GENERAL MOTORS CORP. GENERAL MOTORS BLDG. DETROIT 2, MICHIGAN | |
| MODEL YEAR: | 1953 | DATE |

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| Drive Units..... | 12 | Rear Suspension..... | 18 |
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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.
 2. All specifications are standard for the models under which they are listed unless otherwise indicated.
 3. All dimensions are nominal engineering dimensions unless otherwise indicated.
 4. Unless otherwise indicated, specifications apply to 5 or 6 passenger, 4-door sedan or equivalent.

GENERAL SPECIFICATIONS

| Model | SEDAN DELIVERY | MODEL 1508 |
|---|------------------------------|------------------|
| Wheelbase | 115 | |
| Track | Front | 56-11/16 |
| | Rear | 58-3/4 |
| Maximum Overrun Dimensions | 195-1/4 | |
| Length (L-103) | 74-1/2 | |
| | 65 | |
| Width (W-103) | 23.1:1 | |
| Height (H-101) | 37' Right, 38' Left | |
| Steering ratio—overall | 3160# | |
| Turning diameter (curb to curb) | Standard | |
| Shipping weight* | N.A. | |
| Transmission— (Specify standard, optional, not avail.) | Conventional | N.A. |
| | Overdrive | N.A. |
| | Automatic | 4-11:1 |
| Axle ratio | Conventional | - |
| | Overdrive | - |
| | Automatic | - |
| Tire size | 6.70 x 15 - 4 ply rating | |
| | Type | In line |
| Engine | No. of cylinders | 6 |
| | Valve arrangement | In head |
| | Bore and stroke | 3-1/2 x 3-3/4 |
| | Piston displacement, cu. in. | 216.5 |
| | Standard compression ratio | 6.6:1 |
| | Maximum rpm at engine rpm | 92 at 3400 |
| | Maximum torque at rpm | 176 at 1000-2000 |

*Standard car weight, not including gas and water.

AMA Consolidated Specification Questionnaire

MAKE OF CAR CHEVROLET MODEL YEAR 1953

MODEL SEDAN DELIVERY MODEL 1508

ENGINE—GENERAL

| | | |
|---|---------------------------------------|------------------|
| Type | V, In-line, other Angle of V | In line - |
| No. of cylinders | | 6 |
| Valve arrangement | | In head |
| Bore and stroke | | 3-1/2 x 3-3/4 |
| Piston displacement, cu. in. | | 216.5 |
| Numbering system (front to rear) | L. Bank | - |
| | R. Bank | - |
| Firing order | | 1-5-3-6-2-4 |
| Compression ratio | Standard Head | 6.6:1 |
| | Optional Head | - |
| Cylinders | Head | Cast alloy iron |
| | Material | |
| | Optional | - |
| | Sleeve—Wet, dry, other, none | None |
| Number of mounting points | Front | 2 |
| | Rear | 1 |
| Taxable horsepower | (Dia. ² x No. Cyl.) 2.5 | 29.4 |
| Advertised max. brake horsepower at engine RPM* | Standard head | 92 at 3400 |
| | Optional head | N.A. |
| | With fuel (Octane and method) | 70-80 |
| | Standard Head | - |
| | Optional Head | - |
| Max. torque (lb. ft. @ RPM) | Standard head | 176 at 1000-2000 |
| | Optional head | N.A. |
| Recommended idle speed (neutral) | | 475 in neutral |

ENGINE—PISTONS

| | | |
|--------------------------|------------|---|
| Material | | Cast alloy iron |
| Description and finish | | Flat head, oval, slipper skirt, surface treated with a wear resistant coating |
| Weight (piston only) oz. | | 27.392 |
| | Top land | .015-.023 |
| Clearance | Skirt | - |
| | Top Bottom | .0012-.002 |
| Ring groove depth | No. 1 ring | .157-.164 |
| | No. 2 ring | .157-.164 |
| | No. 3 ring | .170-.177 |
| | No. 4 ring | None |

*Corrected as defined by SAE Engine Test Code, with the following standard power consuming accessories: Dynamometer exhaust system, water pump, generator (not charging).

AMA Consolidated Specification Questionnaire

Page 3

MAKE OF CAR CHEVROLET MODEL YEAR 1953

MODEL SEDAN DELIVERY MODEL 1508

ENGINE—RINGS

| | | |
|----------------------------|------------------------|-----------------|
| Type (top to bottom) | No. 1 oil or comp. | Taper face |
| | No. 2 oil or comp. | Taper face |
| | No. 3 oil or comp. | Wide slot |
| | No. 4 oil or comp. | None |
| No. rings above piston pin | | 3 |
| | Material | Cast alloy iron |
| Compression | Coating | Wear resistant |
| | Width | .1235-.1240 |
| | Gap | .005-.015 |
| | Maximum wail thickness | .155 |
| | Material | Cast alloy iron |
| Oil | Coating | None |
| | Width | .1860-.1865 |
| | Gap | .005-.015 |
| | Maximum wail thickness | .155 |
| Location of expanders | | None |

ENGINE—PISTON PINS

| | | |
|----------------------------|--|---------------------------------|
| Material | | Chromium steel (file hard case) |
| Length | | 3.135-3.165 |
| Diameter | | .8645-.8650 |
| Type | Locked in rod, in piston, floating, etc. | Locked in rod |
| | Bushing | In piston |
| Clearance | In rod or piston | Cast bronze |
| | Material | Slip fit |
| Direction offset in piston | In piston | None |
| | In rod | None |

ENGINE—CONNECTING RODS

| | | |
|---------------------------|-----------------------------|------------------------------|
| Material | | Drop forged steel |
| Weight (oz.) | | 30.88 |
| Length (center to center) | | 6-13/16 |
| Bearing | Material | Thin wall, high lead babbitt |
| | Type (cast-in or removable) | Soun, (centrifugally cast) |
| | Effective length | 1.076 |
| | Clearance | .0003-.0013 |
| End play | | .004-.012 |

ENGINE—CRANKSHAFT

| | | |
|--------------|--|-------------------|
| Material | | Drop forged steel |
| Weight (lb.) | | 70 |

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MODEL SEDAN DELIVERY MODEL 1508

ENGINE—CRANKSHAFT (cont.)

Vibration damper type Oscillating (rubber floated)

End thrust taken by bearing (No.) 3

Crankshaft end play .003-.009

| | | |
|--|-----------------------------|--|
| | Material | <u>Steel backed, thin wall babbitt</u> |
| | Type (cast-in or removable) | <u>Removable</u> |
| | Clearance | <u>.0007-.0028</u> |

| | | | |
|--------------|---|-------|--------------------------------------|
| Main bearing | Journal dia. and bearing effective length | No. 1 | <u>2.6835-2.6845 x 1-29/64</u> |
| | | No. 2 | <u>2.7145-2.7155 x 1-7/16</u> |
| | | No. 3 | <u>2.7155-2.7165 x 1.4345-1.4385</u> |
| | | No. 4 | <u>2.7765-2.7775 x 2-3/32 (a)</u> |
| | | No. 5 | <u>-</u> |
| | | No. 6 | <u>-</u> |
| | | No. 7 | <u>-</u> |

Direction offset from cyl. bore: None

Connecting rod crankpin journal diameter 2.311-2.312

ENGINE—CAMSHAFT

Material Drop forged steel

| | | |
|----------|---------------|-----------------------------|
| Bearings | Material | <u>Steel backed babbitt</u> |
| | Number | <u>4</u> |
| | Gear or chain | <u>Gear</u> |

| | | |
|---------------|--------------------------------------|---|
| Type of drive | Crankshaft gear or sprocket material | <u>Steel</u> |
| | Camshaft gear or sprocket material | <u>Bakelite and fabric composition with steel hub</u> |
| | Make | <u>None</u> |
| | Timing chain | <u>-</u> |

| | | |
|--|--------------|----------|
| | No. of links | <u>-</u> |
| | Width | <u>-</u> |
| | Pitch | <u>-</u> |

ENGINE—VALVE SYSTEM

hydraulic lifters (yes, no) No

Special provision for valve rotation (intake, exhaust) None

Rocker ratio 1.477:1

| | | |
|---|---------|-----------------|
| Operating tappet clearance (indicate hot or cold) | Intake | <u>.006 Hot</u> |
| | Exhaust | <u>.013 Hot</u> |

Tappet clearance for timing

| | | |
|--|---------|---------------------|
| | Intake | <u>Zero lash #1</u> |
| | Exhaust | <u>Zero lash #1</u> |

Timing marks on fly-wheel, damper, other Flywheel

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ENGINE—VALVE SYSTEM (cont.)

| | | | |
|--------|---------|---------------|--------|
| Timing | Intake | Opens (°BTC) | 10 ATC |
| | | Closes (°ABC) | 390 |
| | Exhaust | Opens (°BBC) | 420 |
| | | Closes (°ATC) | 90 |

| | | | |
|--------|--------------------------|-------------------------------|-----------------------------------|
| Intake | Material | | Silchrome or Nickel chrome steel |
| | Overall length | | 6.260-6.290 |
| | Actual overall head dia. | | 1-11/16 |
| | Angle of seat | | 30° Valve face, 31° Cylinder head |
| | Seat insert material | | None |
| | Stem diameter | | .3410-.3417 |
| | Stem to guide clearance | | .001-.0027 |
| | Lift | | .2941 |
| | Outer spring | Valve closed (lb. @ in.) | 53-63 at 1.821 |
| | | press. and length (lb. @ in.) | 124-140 at 1.505 |
| | Inner spring | Valve closed (lb. @ in.) | - |
| | | press. and length (lb. @ in.) | - |

| | | | |
|---------|--------------------------|-------------------------------|-----------------------------------|
| Exhaust | Material | | Silchrome steel |
| | Overall length | | 4.902-4.932 |
| | Actual overall head dia. | | 1-1/2 |
| | Angle of seat | | 45° Valve face, 46° Cylinder head |
| | Seat insert material | | None |
| | Stem diameter | | .3400-.3407 |
| | Stem to guide clearance | | .002-.0037 |
| | Lift | | .3118 |
| | Outer spring | Valve closed (lb. @ in.) | 53-63 at 1.821 |
| | | press. and length (lb. @ in.) | 124-140 at 1.505 |
| | Inner spring | Valve closed (lb. @ in.) | - |
| | | press. and length (lb. @ in.) | - |

ENGINE—LUBRICATION SYSTEM

| | | |
|--|----------------------|------------------|
| Type of lubrication (splash, pressure, nozzle) | Main bearings | Pressure |
| | Connecting rods | Pressure stream |
| | Piston pins | Splash |
| | Camshaft bearings | Pressure |
| | Tappets | Metered pressure |
| | Timing gear or chain | Pressure spray |
| | Cylinder walls | Splash |

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MODEL: SEDAN DELIVERY MODEL 1508

ENGINE—LUBRICATION SYSTEM (cont.)

| | |
|---|--|
| Oil pump type | Gear |
| Normal oil pressure (lb. @ mph) | 14 psi at 2000 RPM |
| Oil pressure gage type (electric or mechanical) | Mechanical |
| Type oil intake (floating, stationary) | Stationary, non-corrosive steel wire mesh screen |
| Oil filter type (full flow, partial flow) | None |
| Capacity of crankcase, less filter—refill (qt.) | 5 |
| Oil grade recommended (SAE viscosity and temperature range) | Not lower than 32°F - 20W or SAE 20 As low as 10°F - 20W As low as -10°F - 10W Below -10°F - 5W |
| Oil type recommended | Heavy duty |

ENGINE—FUEL SYSTEM

| | | |
|----------------------------|-----------------------------------|---|
| Recommended fuel | Standard head | Regular |
| | Optional head | None |
| Fuel tank, capacity (gal.) | | 16 |
| | Type (elec. or mech.) | Mechanical |
| Fuel pump | Location | Right hand side, near front of block |
| | Pressure range | 3-1/2 - 4-1/2 |
| | Vacuum booster (std., opt., none) | Optional |
| | Make | Rochester products |
| | Model number | 7004475 |
| | Number used | 1 |
| Carburetor | Type | Downdraft |
| | | Downdraft |
| | | Single |
| | Inlets | Single or dual |
| | Inlets | Downdraft, side inlet, other |
| | Inlets | Automatic |
| | Inlets | Automatic |
| | Inlets | Manual choke |
| | Air cleaner type | Manual choke |
| | Air cleaner type | Copper ribbon flame arrester, silencer type |
| | Air cleaner type | Oil bath |

ENGINE—EXHAUST SYSTEM

| | |
|---|----------------|
| Muffler type (reverse flow, straight through) | Reverse flow |
| Exhaust pipe diameter | 2.0 outside |
| Tail pipe diameter | 1-13/16 inside |

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MODEL SEDAN DELIVERY MODEL 1508

ENGINE—COOLING SYSTEM

| | | | |
|---|-------------------------------------|---|------------------------------------|
| Type (pressure system, atmospheric, other) | | Pressure | |
| Radiator cap relief valve press. | | 3-1/2 - 4-1/2 | |
| Circulation thermostat | Type (choke, bypass) | Choke | |
| | Starts to open at | 151 | |
| Water pump | Type (centrifugal, other) | Centrifugal | |
| | Number of pumps | 1 | |
| | Drive (V-belt, other) | V-belt | |
| | Bearing type | Permanently lubricated, double row ball bearing | |
| By-pass recirculation type (internal, external) | | None | |
| Radiator core type (cellular, tube and fin) | | Cellular | |
| Cooling system capacity | With heater (qt.) | 16 | |
| | Without heater (qt.) | 15 | |
| Water jackets full length of cylinder (yes, no) | | Full stroke length | |
| Water all around cylinder (yes, no) | | Yes | |
| Radiator hose | Lower | Number and type (molded, straight) | 1 Molded |
| | | Inside diameter and length | 1-1/2 x 16-1/2 |
| | Upper | Number and type (molded, straight) | 1 Molded |
| | | Inside diameter and length | 1-1/4 x 6-3/4 |
| | By-pass | Number and type (molded, straight) | None |
| | | Inside diameter and length | - |
| Drive belts | Fan | Number used | 1 |
| | | Angle of V | 37°-44° wrap molded, or cut molded |
| | | Outside length | 42-1/2 |
| | Generator | Width | 3/8 |
| | | Angle of V | Same as fan belt |
| | | Outside length | - |
| Fan | Width | - | |
| | Number of blades and spacing | 4 Staggered | |
| | Diameter | 15-3/4 | |
| | Ratio—fan to crankshaft revolutions | 1.105:1 | |
| Searing type | | On water pump | |

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MODEL SEDAN DELIVERY MODEL 1508

ELECTRICAL—SUPPLY SYSTEM

| | | | |
|-------------------------|-------------------------------------|--------------------------------------|------------|
| Battery | Make & Model | Delco - 15AAG-W | |
| | Voltage rating & Plates/cell | 6 volt - 15 plate | |
| | Capacity designation & Amp/hr. rate | FM - 100 amp hrs. @ 20 hr. rate | |
| | Location | Right side, under hood | |
| | Terminal grounded | Negative | |
| Generator | Make | Delco-Remy | |
| | Model | 1100018 | |
| | Type | 2 brush, shunt wound | |
| | Ratio—Gen. to Cr/s rev. | 2.05:1 | |
| Regulator | Make | Delco-Remy | |
| | Model | 1118725 | |
| | Type | Current and voltage control | |
| | Cutout relay | Closing voltage @ generator rpm | 6.4 @ 1160 |
| | | Reverse current to open | - |
| | Regulated | Voltage | 7.4 |
| | | Current | 45 |
| | Min. Gen. rpm required | (For max output) 2750 Cold, 3250 Hot | |
| Voltage test conditions | Temperature | Operating | |
| | Load | Run 15 minutes at 8-10 amps | |
| | Other | -- | |

ELECTRICAL—STARTING SYSTEM

| | | | |
|----------------|---------------------------|---|-----|
| Starting motor | Make | Delco-Remy | |
| | Model | 1107109 | |
| | Rotation (drive end view) | Clockwise | |
| | Engine cranking speed | 125 | |
| | Test conditions | Engine operating temperature | |
| | Lock test | Amps | 525 |
| | | Volts | 3.4 |
| | | Torque (lb. ft.) | 12 |
| | No load test | Amps | 65 |
| | | Volts | 5.0 |
| | RPM (min.) | 5000 | |
| | Switch (solenoid, manual) | Solenoid | |
| Motor control | Starting procedure | Place shift lever in neutral and depress clutch. Operate manual choke. Turn ignition key to extreme clockwise position to start engine. | |

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ELECTRICAL—STARTING SYSTEM (cont.)

| | | | |
|-------------|-----------------------------|---------------------|-----|
| Motor drive | Engagement type | Over-running clutch | |
| | Pinion meshes (front, rear) | Front | |
| | Number of teeth | Pinion | 9 |
| | | Flywheel | 139 |
| | Flywheel tooth face width | 1/2 | |

ELECTRICAL—IGNITION SYSTEM

| | | | |
|---------------------------|---|---|---|
| Coil | Make | Delco-Remy | |
| | Model | 1115380 | |
| | Amps | Engine stopped | 4.5 |
| Engine idling | | 2.5 | |
| Distributor | Make | Delco-Remy | |
| | Model | 1112362 | |
| | Spark advance data (at distributor shaft) | Centr. advance start (rpm) | 275-375 |
| | | Centr. advance max. deg. @ rpm | 16.25° - 19.75° at 1725 distributor RPM |
| | | Vacuum advance start (in. Hg.) | 7.0-8.5 |
| | | Vac. adv. (max. deg. @ in. Hg.) | 9° - 11° at 18.5 - 16.5 |
| | Breaker gap (in.) | .015-.022 | |
| | Cam angle (deg.) | 39° | |
| | Breaker arm tension (oz.) | 17-21 | |
| | C.S. deg. @ rpm | 5° ETC Initial advance | |
| Mark location | Flywheel | | |
| Firing order (see page 2) | Front to rear 1-5-3-6-2-4 | | |
| Spark plug | Make and model | AC, 44-5 | |
| | Thread (mm) | 14 | |
| | Tightening torque (lb. ft.) | 20-25 | |
| | Gap | .033-.038 | |
| Cable | Conductor type | Winen core impregnated with electric conducting materi. | |
| | Insulation type | Rubber with neoprene jacket | |
| | Spark plug protector | Neoprene compound | |

ELECTRICAL—SUPPRESSION

Description

NON-METALLIC - High tension cables

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MAKE OF CAR _____ MODEL YEAR 1953

MODEL SEDAN DELIVERY MODEL 1508

ELECTRICAL—INSTRUMENTS AND SWITCHES

| | | |
|-----------------------------|-------------------------|--------------|
| Speedometer | Make | AC |
| | Trip odometer (yes, no) | No |
| Charge indicator—type | | Ammeter |
| Temperature indicator—type | | Bourdon tube |
| Oil pressure indicator—type | | Bourdon tube |
| Fuel indicator—type | | Electric |

| | | |
|-----------------|---|---|
| Ignition switch | Identify positions in order and circuits controlled | Vertical Counter clockwise 1st position clockwise from vert. - Ignition & Accessories "On" 2nd " " " " - Ignition, Accessories & Start (Key removable in all positions) - "On" with spring return to 1st position |
| | Provision for illumination | Yes, bulb at switch |
| | Location | On instrument panel - right of steering column |
| | Theft protection type | None |

| | | |
|----------------------|--|--|
| Main lighting switch | Identify positions and lights controlled | Depressed - off 1st notch - Instrument panel lights, parking lights 2nd notch - Instrument panel lights, driving lights Rotate - Clockwise to dim and turn off instrument panel light Counterclockwise to turn on and brighten panel lights. |
|----------------------|--|--|

| | | |
|----------------------|--------------------------------|--|
| Other light switches | Locations and lamps controlled | Toggle on dome lamp Left hand toe board - High and low beam driving light |
|----------------------|--------------------------------|--|

| | | |
|----------------|----------------------------------|--|
| Other switches | Locations and devices controlled | |
|----------------|----------------------------------|--|

| | | |
|------------------|--------------------------|----------------------------|
| Windshield wiper | Make | Erico |
| | Type | Vacuum |
| | Vacuum booster provision | Factory installed option |
| | Washer provision | Dealer installed accessory |
| Horn | Type | Vibrator |
| | Number used | 2 |
| | Amps draw (each) | High - 17-19, Low - 10-21 |

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MAKE OF CAR _____ VEHICLE NO. _____ MODEL YEAR 1953

MODEL SEDAN DELIVERY MODEL 1508

ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-2400 CC.
Indicate accessories which are not standard equipment by an asterisk following the numbers.

| | | |
|-------------------------|---------------|-----------------------------------|
| Headlamp | | 2-2400 CC |
| Headlamp beam indicator | | 1-51 |
| Parking light | | 2-63 * |
| Tail light | | 2-63 |
| Stop light | | 2-1129 |
| Direction indicator | Front | 2-1151 * |
| | Rear | Uses stop lamp bulbs * |
| | Tell-Tale | 2-51 * |
| License plate light | | 1-63 |
| Instrument light | | 1-55 |
| Ignition lock light | | 1-51 |
| Map light | | NA |
| Dome light | | 1-88 |
| Clock light | | 1-63 * |
| Radio dial light | | 1-55 * |
| Glove compartment light | | 1-55 * |
| Courtesy light | | 2-82 * |
| Trunk compartment light | | NA |
| Other (Accessories) | Portable spot | 1-30 watt * (sealed beam) |
| | Underhood | 1-87 * |
| | Spot | 1-32 * candle power (sealed beam) |
| | Back-up | 2-1133 * |

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

| | | |
|-------------------------|-------------------|---------------|
| Headlamp | | 30 CB (a) |
| Headlamp beam indicator | | Same as (a) |
| Parking light | | Same as (a) |
| Tail light | | Same as (a) |
| Stop light | | Same as (a) |
| Direction indicator | | Same as (a) |
| License plate light | | SFE 11* |
| Instrument light | | Same as (a) |
| Ignition light | | Same as (a) |
| Map light | | Same as (a) |
| Dome light | | None |
| Clock | | Same as (a) |
| Clock light | | Same as (a) * |
| Radio | | Same as (a) * |
| Glove compartment light | | SFE 11 * |
| Courtesy light | | Same as (a) * |
| Trunk compartment light | | - |
| Other (Accessories) | Trunk compartment | SFE 11 * |
| | Glove compartment | SFE 11 * |
| | Trunk (1st floor) | SFE 11 * |
| | Trunk (2nd floor) | SFE 11 * |

* - Accessory only
* - replaced by 3 CF filament of 1154 bulb

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MODEL SEDAN DELIVERY MODEL 1508

DRIVE UNITS—CLUTCH (PEDAL OPERATED)

| | | |
|--|-------------------------|---|
| Make | | <u>Gen. and Borg and Beck</u> |
| Type (dry or wet plate) | | <u>Dry</u> |
| In combination with fluid coupling (yes, no) | | <u>No</u> |
| Semi-centrifugal (yes, no) | | <u>No</u> |
| Type pressure plate springs | | <u>Diaphragm spring</u> |
| Total plate pressure (lb.) | | <u>-</u> |
| No. of clutch driven discs | | <u>One</u> |
| Material | | <u>Woven or molded asbestos composition</u> |
| Inside diameter | | <u>6.125</u> |
| Outside diameter | | <u>9.125</u> |
| Total eff. area (sq. in.) | | <u>71.86</u> |
| Thickness | | <u>.132-.138</u> |
| Number required | | <u>2</u> |
| Engagement cushioning method | | <u>Spring plates</u> |
| Release bearing | Type | <u>Ball bearing</u> |
| | Method of lubrication | <u>Packed for life</u> |
| Torsional damping | Method (springs, other) | <u>Helical hub springs</u> |
| | Frict. mat. | <u>-</u> |

Clutch facing

DRIVE UNITS—TRANSMISSIONS

| | |
|--|-----------------|
| Conventional (std. or opt.) | <u>Standard</u> |
| Conventional with overdrive (std. or opt.) | <u>NA</u> |
| Automatic (std. or opt.) | <u>NA</u> |

DRIVE UNITS—CONVENTIONAL TRANSMISSION

| | | |
|--|------------|---------------|
| Number of forward speeds | | <u>3</u> |
| Transmission ratios | In first | <u>2.94:1</u> |
| | In second | <u>1.68:1</u> |
| | In third | <u>Direct</u> |
| | In fourth | <u>None</u> |
| | In reverse | <u>2.94:1</u> |
| Constant mesh gears in 2nd (yes, no) | | <u>Yes</u> |
| Spur gear used in (indicate speeds) | | <u>None</u> |
| Helical gears used in (indicate speeds) | | <u>All</u> |
| Synchronous meshing in 2nd and 3rd gears (yes, no) | | <u>Yes</u> |

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DRIVE UNITS—CONVENTIONAL TRANSMISSION (cont.)

| | | | | |
|-----------|----------------------|--------------|------------------------------|--------|
| Lubricant | Capacity (pt.) | | 1-1/2 | |
| | Type recommended | | Multi-purpose or mineral oil | |
| | SAE viscosity number | Summer | | SAE 90 |
| | | Winter | | SAE 90 |
| | | Extreme cold | | SAE 90 |

DRIVE UNITS—CONVENTIONAL TRANSMISSION WITH OVERDRIVE

For transmission data see conventional transmission section

| | | | | |
|-----------|---|---------------------------|--------|--|
| Overdrive | Type (planetary or other) | | | |
| | If planetary, No. of pinions | | | |
| | Manual lockout (yes, no) | | | |
| | Downshift accelerator control (yes, no) | | | |
| | Minimum cut-in speed | | | |
| | Gear ratio | | | |
| | Lubricant | Capacity (O.D. only) | | |
| | | Separate filter (yes, no) | | |
| | | Type recommended | | |
| | | SAE viscosity number | Summer | |
| Winter | | | | |
| | Ext. cold | | | |

DRIVE UNITS—AUTOMATIC TRANSMISSION

| | |
|---|--|
| Trade name | |
| Type (fluid coupling with gears, torque convertor with gears, other) | |
| Manual selector positions, left to right (show symbols and define, e.g., N- Neutral) | |
| List gear ratios in each drive position (range) | |
| Shifting within drive position range by accelerator control and speed limiting governor (yes, no) | |
| —governor—forced shift (yes, no) | |
| Downshift of gears in high range possible up to (mph) | |

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DRIVE UNITS—AUTOMATIC TRANSMISSION (cont.)

| | | | |
|-----------------------------|--|--------------------------------|--|
| Torque converter | Number of elements | | |
| | Max. ratio at stall at engine rpm | | |
| | Mechanical lockup | Provided (yes, no) | |
| | | Speed range | |
| | | Releases at (speed range, mph) | |
| | Type of cooling (forced air, oil cooler and type, other) | | |
| Anti-creep device (yes, no) | | | |
| Lubricant | Capacity—refill (qt.) | | |
| | Type recommended | | |
| | Grade | Summer | |
| | | Winter | |
| | | Extreme cold | |

DRIVE UNITS—PROPELLER SHAFT

| | | | |
|---|--|--|-------------------|
| Number used | | 1 | |
| Type (exposed, torque tube) | | Torque tube | |
| Outer diameter x length* x wall thickness | Conventional trans. | 2.0 x .065 (Eff. length varies due to slip of U/joint on spline) | |
| | Overdrive trans. | | |
| | Automatic trans. | | |
| Intermediate bearing | Type (plain, anti-friction) | None | |
| | Lubri. (fitting, prepack) | | |
| Make | | Own | |
| Universal joints | Number used | 1 | |
| | Type (ball and trunnion, cross, other) | Yoke and spider (trunnion) | |
| | Bearing | Type (plain, anti-friction) | Plain |
| | | Lubric. (fitting, prepack) | From transmission |
| Torque taken through (torque tube or arms, spring) | | Rear springs | |
| Torque taken through (torque tube or arms, springs) | | Torque tube | |

*Centerline to centerline of joints or centerline of rear attachment point.

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DRIVE UNITS—REAR AXLE

| | | |
|-----------------------------------|----------------------|---------------------------------------|
| Type (semi-floating, other) | Semi-floating | |
| Gear type (hypoid, other) | Hypoid | |
| Gear ratio and No. of teeth | Conventional trans. | 4.11:1 |
| | Overdrive trans. | NA |
| | Automatic trans. | NA |
| Pinion adjustment (shim, other) | Shim | |
| Pinion bearing adj. (shim, other) | None | |
| Lubricant | Capacity (qt.) | 3-1/2 |
| | Type recommended | Passenger car Hypoid or Multi-purpose |
| | SAE viscosity number | SAE 90 |
| | SAE viscosity number | SAE 90 |

DRIVE UNITS—WHEELS

| | | |
|----------------------------|---------------------|--------------|
| Type (disc, other) | Short spoke disc | |
| Rim (size and flange type) | 15 x 5K | |
| Attachment | Type (bolt or stud) | Bolt |
| | Circle diameter | 1.75 |
| | Number and size | 5, 7/16 x 20 |

DRIVE UNITS—TIRES

| | | |
|-------------------------|----------|--------------------------------------|
| Size and ply rating | Standard | 6.70-15-4 ply rating |
| | Optional | 6.70-15-6 ply rating |
| Rev/mile at 30 mph | 74.8 | |
| Inflation press. (cold) | Front | 24# for 6.70-15-4; 26# for 6.70-15-6 |
| | Rear | 24# for 6.70-15-4; 30# for 6.70-15-6 |

BRAKES—SERVICE

| | | |
|----------------------------------|---|----|
| Type | Servo - 4 wheel hydraulic | |
| Booster type | None | |
| Effective area (sq. in.) | 158 | |
| Percent brake effectiveness—rear | 44% | |
| Drum | Diameter | 11 |
| | Front | 11 |
| | Rear | 11 |
| Type and material | Composite, Rim - Cast Alloy iron. Web - Pressed steel | |

AMA Consolidated Specification Questionnaire

MAKE OF CAR CHEVROLET MODEL YEAR 1953

MODEL SEDAN DELIVERY MODEL 1508

BRAKES—SERVICE (cont.)

| Bonded or riveted | | Bonded | |
|-------------------------------------|-----------------------------------|--------------------------------------|---|
| Brake lining | Material | Full-molded, asbestos composition | |
| | Primary | Size (length x width x thickness) | Front wheel 9.3125 x 2.0 x .202-.222 |
| | | Rear wheel | 9.3125 x 1.75 x .202-.222 |
| | Segments per shoe | | One |
| Secondary | Material | Full-molded, asbestos composition | |
| | Size (length x width x thickness) | Front wheel | 11.6875 x 2.0 x .202-.222 |
| | | Rear wheel | 11.6875 x 1.75 x .202-.222 |
| | Segments per shoe | | One |
| Wheel cylinder bore | Front | 1.125 | |
| Master cylinder bore | Rear | 1 | |
| Available pedal travel | 7/8 | | |
| Line pressure at 100 lb. pedal load | 6.5 | | |
| Shoe clearance adjustment | 800 (Approx.) | | |
| | | To light drag and back off 7 notches | |

BRAKES—PARKING

| | |
|---------------------------------|--|
| Type of control | 'T' Handle pull rod |
| Location of control | RH of steering column, below instrument panel |
| Operates on | Rear service brake shoes |
| if separate from service brakes | Type (internal or external) Drum diameter Lining size (length x width x thickness) |

FRAME

| | |
|----------------------|--|
| Type and description | Full length, welded, box-section Box-section front, rear and intermediate cross members |
|----------------------|--|

FRONT SUSPENSION

| | |
|----------------------|---|
| Type and description | Unitized, independent, short and long arm |
|----------------------|---|

AMA Consolidated Specification Questionnaire

MAKE OF CAR CHEVROLET MODEL YEAR 1953

MODEL SEDAN DELIVERY MODEL 1508

FRONT SUSPENSION (cont.)

| | | |
|-----------------|---|----------------------------------|
| Spring | Type | Coil |
| | Material | Chrome alloy steel |
| | Size (length x width x No. leaves or coil I.D.) | 14-3/4 x 4.45 |
| | Spring rate (lb. per in.) | 300 |
| | Rate at wheel (lb. per in.) | 110 |
| | Normal load (lb. @ rated length) | 1555 at 9.5 |
| Shock absorbers | Manufacturer | Delco |
| | Type (direct or lever) | Direct, double-acting, hydraulic |
| | Piston diameter | 1.0 |
| Stabilizer | Type (link, linkless, frameless) | Link |
| | Material | Heat treated HR carbon steel |

STEERING

| | | | |
|--|---------------------------------------|---|--------|
| Type used (Standard or optional) | Mechanical | Standard | |
| | Power | NA | |
| Wheel diameter | | 16 | |
| Turning diameter | Wall to wall | 40' Right, 41' Left | |
| | Curb to curb | 37' Right, 38' Left | |
| Outside wheel angle with inside wheel at 20° | | 17° 40' | |
| Mechanical | Type | Semi-reversible, hour glass worm and ball bearing roller sector | |
| | Make | Saginaw | |
| | Gear Ratios | Gear | 19.4:1 |
| | | Overall | 23.1:1 |
| | No. wheel turns (l. to r.) (l. to r.) | | 4.53 |
| Power | Type | | |
| | Make | | |
| | Trade name | | |
| | Gear Ratios | Type | |
| | | Gear | |
| | | Overall | |
| | Pump driven by | | |
| | Overall torque ratio | | |
| Number wheel turns (l. to r.) | | | |
| Linkage | Type | Center-point | |
| | Location (front or rear of wheels) | Rear of wheels | |
| | Drag link (trans. or long) | Longitudinal | |
| | Tie rods (one or two) | 2 | |

AMA Consolidated Specification Questionnaire

MAKE OF CAR CHEVROLET MODEL YEAR 1953

MODEL SEDAN DELIVERY MODEL 1508

STEERING (cont.)

| | | | | |
|---------------------------------------|-------------------------------|---------------|-----------------|---------|
| Kingpin | Inclination at camber (deg.) | | 3-1/2 - 4-1/2 | |
| | Diameter | | .8660-.8665 | |
| | Bearings (type) | Upper | | Bushing |
| | | Lower | | Bushing |
| | Thrust | | Single row ball | |
| Wheel alignment (range and preferred) | Caster (deg.) | | 0-1 | |
| | Camber (deg.) | | 0-1 | |
| | Toe-in (outside tread-inches) | | 0-1/8 | |
| Steering knuckle type | | | Reverse Elliot | |
| Wheel spindle | Diameter | Inner bearing | 1.2801-1.2806 | |
| | | Outer bearing | .7490-.7495 | |
| | Thread size | | 3/4-20 AN | |
| | Bearing type | | Ball | |

REAR SUSPENSION

| | | | | |
|---|---|----------------------|---------------------------------------|------|
| Type | | | Longitudinal springs | |
| Drive and torq. taken through (see page 14) | | | Drive - Springs, Torque - Torque tube | |
| Spring | Type | | Semi-elliptic | |
| | Material | | Chrome alloy steel | |
| | Size (length x width x No. leaves or coil I.D.) | | 49 x 1-3/4 x 8 | |
| | Spring rate (lb. per in.) | | 115 | |
| | Rate at wheel (lb. per in.) | | - | |
| | Normal load (lb. at rated length) | | 1180 | |
| | Mounting insuiation type | | Rubber bushed | |
| | If leaf | No. of leaves | | 8 |
| | | Covers (yes, no) | | Yes |
| | | Lubricated (yes, no) | | Yes |
| | | Inserts | Type and size | None |
| | | | Material | - |
| | Shackle (comp. or tens.) | | In tension from rear hanger | |
| Shock absorbers | Manufacturer | | Delco | |
| | Type (direct or lever) | | Direct, double-acting, hydraulic | |
| | Piston diameter | | 1.0 | |
| Stabilizer | Type (link, linkless, frameless) | | None | |
| | Material | | - | |
| Track bar type | | | None | |

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