

# 1955 CHEVROLET FEATURES

PASSENGER CAR ENGINEERING ACHIEVEMENTS

BOOK NO. 204

ISSUED TO Campbell Cush Cognication

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The 1955 Chevrolet is a tribute not only to the technical skill but also to the vision, ingenuity and enthusiasm of those responsible for its conception and ultimate design.

It is only fitting, therefore, that this Feature Book be dedicated to the members of the Engineering Department, whose combined efforts have produced the new passenger car presented to you here.

En. Coec

E. N. Cole Chief Engineer

## THE 1955 CHEVROLET

Representing the most comprehensive model change in Chevrolet's history, the 1955 passenger car is the product of an extensive research and development program, supported by a large increase in

manufacturing facilities.

Scientific engineering throughout is reflected in

the advanced overall design of the vehicle, which has outstanding performance and roadsbillty. Its riding and handling qualities are the result of a complete redesign of every major chassis component as well as the body structure. In its many mechanical features there are some noteworthy additions to the list of "Chevrolet Firsts" and more than one new to the industry at large.

A sweeping appearance change, with lower overall height and extended body lines, places the 1955 Chevrolet passenger car in the forefront of consumers of the constraint of th

Supporting the styling transformation is a new body structure with greater integration of body and frame design and higher resistance to torsional stresses. Heavy-gauge reinforcements provide extra rigidity, and unlined body side construction, a new Fisher Body feature, assures accurate door fits. A completely redesigned number ventilation system takes in air at hood high level.

Fifty per cent more twist-resistant and eighteen per cent lighter in weight, the frame structure has reshaped side members and more rigid front and

rear cross member attachments.

The new front suspension, with 1,3 inches wider front tread, incorporates spherical joint steering knuckles which eliminate king pins and greatly reduce lubrication requirements. Braking dive control, a unique mechanical feature, utilizes the forward momentum of the vehicle to control dive upon brake application by up to 45 per cent. Among the many chassis improvements which contribute to the amoothness and handling ease of the new car are Hotchkiss drive, outrigger rear springs and a new steering linkage combined with a recirculating ball-type steering goar which trans-

fers more driver effort into steering effort, A 162 horsepower V-8 engine of advanced design is offered as optional equipment for 1955. Developed from extensive research, the high performance characteristics of this engine go hand-in-hand with low-weight structural compactness and outstanding overall efficiency. High power output per pound, overhead valves, high-turbulence combustion chambers, 8-to-1 compression ratio, and a large displacement with a low engine bulk are some of the features that provide outstanding performance with low operating expense. For the customer who desires exceptional acceleration and speed, there is available at extra cost a high performance equipment package which boosts the horsepower of the V-8 engine to 180. The improved six cylinder ensines feature more efficient cooling and lubrication as well as quieter operation. All engines have a 12 volt electrical avatem.

Offered for the first time by Chevrolet, an overdrive option, in conjunction with a high performance rear axie, offers greater driving flexibility and operating economy.

Thus, in 1955, the customer has a choice of six different power teams:

rent power teams:
The 123 horsenower aix engine with yearshift

and 3.7 axle.

The 123 horsepower six engine with gearshift, overdrive and 4.11 performance axle.

The 136 horsepower six engine with Powerglide and 3.55 axle.

The V-8 engine with gearshift and 3.7 economy axle.

The V-8 engine with gearshift, overdrive and 4.11 performance axle.

The V-8 engine with Powerglide and 3.55 axle.

The 1955 list of extra cost equipment includes an all-weather air conditioning system of new and compact design which permits driver and passengers to select their weather and enjoy a refreshing atmosphere at any time of year.



## SERIES AND MODELS

THE 1955 LINE		,						1
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#### THE 1955 LINE

The completely new Chevrolet for 1955 is presented in three Series, the 2400, the 2100, and the 1500, each distinguished by exterior trim differences and interior treatment. The addition of another station wagon to the 2100 Series brings the model line-up to a total of fourteen cars and the Sedan Delivery.

The 2400 Bel Air, or "luxury" Series, offers a choice of five body styles, a Two-door Sedan, Fourdoor Sedan, Sport Goupe, Convertible, and a Fourdoor Station Waron.

The five models of the 2100, or "deluxe" Series,

are: Two-door Sedan, Four-door Sedan, Club Coupe, Four-door Station Wagon and the new Two-door Station Wagon.

The 1500, or "standard" Series, is composed of a Two-door Sedan, Four-door Sedan, Utility Sedan, Sedan Delivery, and a Two-door Station Wagon which replaces the former Four-door model.

The four station wagon models available in the three series are all of six-passenger capacity, no eight-passenger vehicles being available. Other passenger capacity ratings remain unchanged.

#### SERIES 2400



FOUR-DOOR SEDAN 6-PASSENGER MODEL 2403



TWO-DOOR SEDAN 6-PASSENGER MODEL 2402



SPORT COUPE 6-PASSENGER MODEL 2454



CONVERTIBLE 5-PASSENGER MODEL 2434



FOUR-DOOR STATION WAGON 6-PASSENGER MODEL 2409



FOUR-DOOR SEDAN 6-PASSENGER MODEL 2103



CLUB COUPE 6-PASSENGER MODEL 2124

TWO-DOOR SEDAN 6-PASSENGER MODEL 2102



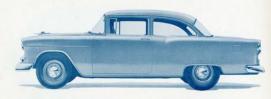
FOUR-DOOR STATION WAGON 6-PASSENGER MODEL 2109



TWO-DOOR STATION WAGON 6-PASSENGER MODEL 2129



FOUR-DOOR SEDAN 6-PASSENGER MODEL 1503



TWO-DOOR SEDAN 6-PASSENGER MODEL 1502



UTILITY SEDAN 3- PASSENGER MODEL 1512



TWO-DOOR STATION WAGON 6-PASSENGER MODEL 1529



SEDAN DELIVERY MODEL 1508

## EXTERIOR STYLING

THE 1955 EX	T	ER	10	R.				0.0		18
SERIES 2400				0,0						28
SERIES 2100										32
ennes 1500										20



## THE 1955 EXTERIOR

The 1955 passenger car, new in almost every mechanical detail, is also dramatically new in appearance.

In this chapter, the various engineering features

of the exterior are described in detail in round-thecar manner. To convey an adequate impression of the new car, however, it is necessary to consider it briefly in terms of the styling accomplishment

The new models, with a low silhoustes and a long, fleet appearance, demonstrate the full beauty of the contemporary approach to automotive styling in which the functional and the parely decorative styling in which the functional and the parely decorative styling in the stylin

The new alliments reveals a considerably lower car. Overall halps are refused 1-12 inches in actions and coapes and 6 inches in statist wagner. So well features as hand sower the handlights and the extended lines of the rear fenders and tall light provide a dirictle impression of length properties. The extended lines are the rear fenders and tall light provides dirictle impression of length impression from a front and rear view, the 195 Chernelet Fram a front and rear view, the 195 Chernelet preserves its compact filmentains. The new denight lines are the compact filmentains. The new denight lines are decreased of more than one inch in over-tall width in spirit of the more openious passenger.

One of the principle objectives of the 1955 styling, and perhaps its most striking feature, is the car's look of mobility at all times. This is true from every aspect, and is especially evident in the front

end design, in which the lattice-design radiator grille is slanted forward. Long, narrow parking lights, located beneath the headlights, add to the impression of width.

The helt line is lowered in all models and takes a well-defined dip in the reas quarter of sedana coapsa. The dick lid is lower than on previous that the sedana is the sedana coapsa. The dick lid is lower than on previous that which is length, width and overall lowers. The rear feeders, which are a continuation of the rear quarter panish, form a smooth, subroken contour from the center piller to the rear corners. The center lpp line actived hericantally rearward to the feeder lpp line actived hericantally rearward to the

The wrap-around windshield enhances the open appearance of the car and at the same time provides better visibility. Windshield pillars are in a vertical position to permit the windshield to wrap around to the rear. Other changes in glass area which make the Chevrolet a safer and more enjoyable automobile include much larger rear windows, the addition of stationary rear quarter windows on 4door models and wrap-around quarter windows on the station wagons.

The four station wagons in the 1955 model lineup deserve a special word. This popular body style, so much a part of the American way of living, has received particular attention in the 1955 styling program. Their greatly reduced overall height, distinctive trim treatment, and special features give the new station wagons an arresting appearance.

Fourteen solid swirtor colors, ten of them new re offered in the 1955 color line-up, and a total of twenty-nee twa-tone combinations is available among the various models in the three series, in-cluding two reserved exclusively for Series 2400, 24 detailed lating of colors available for specific models will be found in the color charts in the Assembly of the color charts in t

The following pages deal with styling features common to all series. The Series 2400, 2100, and 1500 are then described separately, in that order.



### FRONT VIEW . . .

Hood and fender lines combine with the cleen cut grille to emphasize the low, wide lines of the new Chevrollet. For Generally simple, the radiator grille is balanced by the measure styling of the new bumper and bumper guards. The long narrow parking lights and the restyled hood emblem and arnament and distinction to the front-end appearance.



### HOOD ORNAMENT . . .

The langer and wider eagle motif hood ornament further accents the wide herizontal lines of the front end styling. The new ornament design features back-swept wings with vertical fins set inboard from the ends.

### HOOD EMBLEM . . .

Langer and narrower, the emblem retains the shape of a shield. The outer frame of bright metal encloses a plastic insert containing the blue Chevrolet trademost, centered on a field divided into four quarters by silver and gold ribs. The red upper left and lower right quarters ach bear two gold fleurs-de-lis. The other two quarters are white with silver-vertical ribbing.







#### RADIATOR GRILLE . . .

Featuring clean cut simplicity, the new griller effects the mobile look of the new models. Sloping farward, the grille is a lattice pattern of 15 vertical and 7 herizantal bright metal bars. The upper parties of the bright metal barel framing the grille is a tracked to and lifts with the hood when append.

Supplementing the grille design, the new burn-

Suppresenting the gritic design, the new unrepers nee wide and missive. The face ben, nerrows at the center than at the ends, is set inward following the frant end contaur; the sloped ends then carve outword before wropping around the feeders. Bumper pureds are also refeatinged with the lower half following the inward slope of the bumper and the upper half sloping forward as does the grille.

#### HEADLIGHT AND PARKING LIGHT . . .

The front fenders extend forward to farm hoods over the headlights. The hoods, materially aiding the illusion of length, blend smoothly into the windsplit line on the side of the fender. Headlight bezels curve outward at the top to form a bright metal lining for the hoods.

Parking lights, in keeping with the styling theme of the froat end, also slant forward. Framed by narrow bright metal bezels, they are divorced entirely from the grille.



#### WINDSHIELD . . .

The new wrop-around windshield provides greater visibility and a more open appearance on all models. A bright metal reveal molding frames the windshield on all models except those of the 1500 Series.

## VENTIPANES . . .

The front door ventipanes are rectangular in shape to go with the vertical windshield pillars. Framed in bright metal, the ventipanes are crank-controlled.





## REAR FENDER . . .

Outlined only by the dip in the belt line, the rear fenders are a continuation of the rear geatter panels. The smooth contour along the entire body side further accents the low silhouette and sleek appearance of the new Chevrolet.

Rear wheel openings are framed by raised books continued from the front fender along the racker panel. The rear wheel opening is styled to provide smart appearnace without rear wheel cover panels, which are no longer furnished on any model.



## DOOR HANDLE . . .

The slimmer, more graceful door handles retain the push button feature. However, the push buttons are offset below the handle for more convenient operation and are thus better shielded from ice and anow. Key locks are relocated to the door panels, approximately four inches below the handle.



#### REAR WINDOW . . .

The one-piece, wrop-around rear window features a much larger visibility area. Redesigned, with square upper corners, the window is framed by a bright metal reveal molding on models of the 2100 and 2400 Series.

#### TAIL AND STOP LIGHTS . . .

Integrated with the centrum of the new feeders, the new feel and top lights further demonstrate the centinuity of line which distinguishes the centinuity of line which distinguishes the support of the





#### REAR VIEW .

The rear and of the 1955 Chevrolet copably enhances the styling theme of greater length, width and a lower silhowest. The broad expanse is deck life upper surface eagments the harizontal lines of the balt and rear fenders as well as emphasizing the writh characteristics of the new checkers, curving abroptly downward, the vertical surface of the deck life consists the hondle, key lock and the license plate two-texter.

The front bumper design is duplicated for the rear, with the broad center section deeply recessed before curving outward and around the fenders. Models equipped with the optional V-8 engine are distinguished by a bright metal V emblem located below each toil light.



## DECK LID HANDLE . . .

The shield design and styling details of the hood emblem are duplicated for the deck lid handle. However, a recessed section along the loweredge provides a finger grip for easy opening of the counterbalanced deck lid.



The license plate is illuminated from either side by lights located in each of the rear bumper guerds. The front and rear bumper guards are identical in shape.



## SERIES 2400 4-DOOR SEDAN



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## SERIES 2400

The five models in Series 2400 corry their special imprint of extra luxury and an exclusive appearance.

The amost new rear fender decoration includes a wide side molding with a full length groove painted Winter White, and the Bel Air nameplate and crest located at the forward and of the molding. Window openings are generously trimmed with bright metal moldings adding to the light, open appearance of the upper part of the body. Bright metal wheel disks and front fender moldings also are included.



#### SPORT COUPE . . .

The belt line at the door and rear quarter window has no suggestion of a vertical surface, this area being covered by a flat bright metal saddle molding. Bright metal surrounds the entire window area, including the portion between the ventipone and the windshield.

A new beauty feature is an extension of the two-tone color treatment in which the rear deck and the entire upper parties of the rear fender down to the funder moditing and as for fewerd as the seak modifieng one pointed the same color as the top. This treatment is offered in addition to the usual twe-tone and solid color schemes.



## WHEEL DISKS . . .

All models of Series 2600 are distinguished by full-width wheel disk featuring wide conical spinners in the center. Eight Chevrolet trademarks on a Winter White background surround the spinner within the rodial flutes at the outer periphery.

A new, more positive method is used to ottoch the disk to the wheel. Replacing the sharp edged fingers on the back of the disk is a continuous bead which angus into place past four raised lugs on the wheel rim. This provides a more succer attachment of the disk to the wheel, yet permits frequent removal without distortion.



#### CONVERTIBLE . . .

of the rear fender.

As on the Sport Coupe, the low silhouette and the long opportance is emphasized by the downward slope of the belt line. This feature, coupled with the lower hood and rear deck heights contributes to the dashing look of the new cor.

Appearance of the car with the top lowered is particularly sleek since the top is designed to stow practically flush with the top of the well. Thus, the bulge with the boot installed is negligible, providing a smooth, clean cut too line forward of the rear deck.

With the same contrasting rear deck and fender treatment available as it is in the Sport Coupe, the Convertible

has now, for the first time, a two-tone effect of its own.

To provide a neat color separation, an araamental molding, consisting of eight narrow grooves pointed Winter
White an a chrome background, is added to the lower part

STATION MAGON.

Statics wopen models of all series exhibit on entirely new oppearance for 1955 with large reductions in overall height and were recorded to the series of weather than the series of the series is readily identified for the other body styles. The four-does medic in the 2000 Series is readily identified by the same distinctive front and rear funder textured as not the other Series 2000 models. The diagnost such modified, however, is replaced by a bright motal wing stretched to the new funder medical series when the window areas, one encircling the body along the belt lines and another beauest the drip medica.







## SIDE WINDOW SILL MOLDING . . .

Enhancing the belt line of sedans and the club coupe, a bright metal side window still molding axtends along the belt to the rear edge of the quarter windows. A raised embossment continues upward to surround the entire side window area. Bright metal reveal moldings frome the windshield and rear windows.



#### HUB CAPS . . .

All models of the 1500 and 2100 Series are equipped with stainliss steel bub copy, featuring a wide conical spinner in the center. The spinner is enricically by an embossed band pointed Winter White, which carries eight bright metal Chevrolet trademarks. A single stripe on the rin completes the wheel deceration on these models as before. An Onya Block stripe is used to contrast with light wheel colors and Argent Silver is used with dark colors.



## FRONT FENDER . . .

As an Series 2400, the horizontal feeder crown extends forward to form a hood over the headlights. The fender hood then blends amosthly into a windsplit line running recovered along the feeder side. An identifying bright metal nameplate consisting of the word "Chevrolet" in script is located on the featward section of the fender, above the windsplit. The roised floage wheel apenings on all models contribute to the identity of the new weblich.



### REAR FENDER . . .

Highlighted by the specitype bright metal molding extending along the entire side, the rear fender defines the long, clean-cut lines of the 1955 Chevrolet. The fender molding is intersected by a diaponal such molding as an Series 2400 models. Indentations in the sost molding are filled in with black point as simulate oil rathets.

The gasoline filler door, located in the left rear fender of all models including the station wagon is hinged at the front to improve accessibility.

#### STATION WAGONS . . .

The Series 2100 station wagons, effered in both two-door and four-door models, and concepus must of the styling features Soud on the seedons, or well on some discreted by the functional qualities of the whiche. Belt and hooder modelings, extending across the tail and lift greats and execut the body, from the side and even windows. The wrop-created rear quarter windows all minimum than the properties of the whiche.

The forward portion of the rear quarter window on two-door models lowers into the body, while the four-door models after a similar provision for ventilation with the dropping rear door windows.

An industries in the center section of the rear bumper accommodates the license plate which is illuminated by lights located in each bumper guard. To permit lowering of the tail gate, the bumper guards are shorter than on other models. Tail gate identification repeats the hood emblem design in place of the former "Chevrolet" in script.







#### STATION WAGON . . .

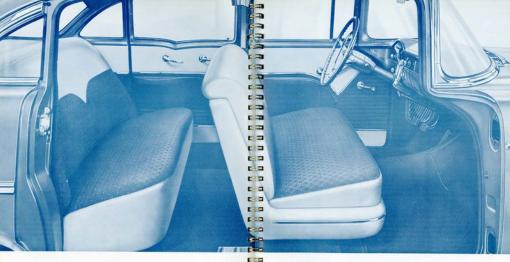
Providing the same utility, roominess and convenience as its counterpart in the 2100 Series, the Series 1500 two-door station wagon differs from it only in items of trim and regular equipment.

Increased visibility and an open appearance is provided with the wrop-around windshield and rear quarter windows. Both portions of the rear quarter window are stationary, however.

Bright metal components include all those provided for other vehicles in the 1500 Series. As on other station wapon models, the rear bumper is indented to accommodate the license plate and the guards are shorter to permit opening of the rull cate. A total of five exterior color combinations is available on this vehicle.

## INTERIOR STYLING

THE 1955 IN	TE	R	OF	₹.							42
SERIES 2400							*				51
SERIES 2100					٠	4					57
SERIES 1500											60



## THE 1955 INTERIOR

Luxurious new interiors complement the advanced body styling of the 1955 Chevrobet. A sense of spaciosaness and spen confider derives from the new wrap-around windshield, considerable increases in general glasse area, and a gain in interior with. In general glasse area, and a gain is interior with. In the confiderable increases the second of the confiderable increases follow the contour of the windshield. In new deep that steering wheel, concretering pearshill control has been grown by the confideration of the control of the control of the contour of the windshield. shaft concealed within the steering column, relocation of the controls for greater convenience, and suspended brake and clutch pedals are some of the features which provide an extremely smart and functional front compartment for all passenger care

A new selection of the latest fabrics, and new textures in the coated fabrics, vinyl and elascolab. all used in striking color combinations, bring agacial heavity to he 1955 interferors. The blending of these new materials is especially effective in the restment of the sidewalls and easts, the hacks of which are slightly rounded rather than square for a more graceful appearance. A completely folding year seat increases the length of the load platform in the station weens.

The front door ventionness are controlled by the same convenient crank type control as on previous models. Doer and window regulater handless are of the same attractive low hind design as before. Other new features of the interior include a new, round done light which can be operated from the instrument panel, a centrally located glowe compartment, and castly accessible control inchés.



#### INSTRUMENT PANEL . . .

The instrument panel carries through the contemporary character of the 1955 styling and effectively complements the car's advanced exterior appearance.

Many nee features contribute to the artifling effect of the new peach. The Dewerglish indirect off is levered in the instrument cluster, Interior lights are spected in the instrument peach by the hondlengs witch. Weating lights lected in the instrument cluster replace the conventional amounter and all pressure puope. The glove compartment is centrally located for greater convenience to the divine.

The wide overhanging crown spanning the entire width vises to farm hoods over both the instrument cluster and radie grille. The quodrent shoped instrument cluster, Incared directly in frest of the steering wheel, is belonced to the passencer side of the instrument posed by the radio prille. An electric clock is standard equipment on models of the 2000 Series, while a decembring plane conrest the clock previsions an models of the other series. Further identifying the 2000 models, to golf-gloted Bell Air nameplate in script is facetated on the radio grille, replaced on the Series 1500 and 2100 by the word "Chevrelet" in bright metal. -80

-80

Central lands are reflexisped and relocated. To the left of the lantround cluster is the main light witch which also cantrals, the brillineary of the instrument lights are used not the own light. Below and lightly inhoused from the light awritch in the windshield wiper central. To the cipht of the instrument cluster is the cipater the instrument cluster is the cipater the instrument cluster is the cipater the instrument of sorter 2000 and 2400, while driven the cipater of the instrument cluster. To the left of this centre cannot be considered to the contract of the co

good is the ignities lock, again featuring key-hear starting, Cantal looks on the intreason good of Series 2000 here a black plants exceptions surrounded by a normer into a bright most living better the black hadepoint and in the contract of the starting of the latter of the latter

Twe-tone instrument panels with a dark tone crown and lower partian are provided for all series. The center section, so insert, is light tone on Series 1900 and 2100 have were, and bright metal ambellished with block Cherrolet

trademarks on the more luxurious 2400 Series models. The instrument cluster, framed by bright noted, highlights the speedometer which extends ocross its full width. An overall color pattern of white letters, numerals, productions and pointer on a dell black background is followed for the speedameter as well as for the temperature and assoline across located above it. The red warning lights, located below the speedometer on a block perforeted background. Elash on when all pressure or genereter output drap below the normal road condition. The high-beam indicator, red when lighted, is in the shape of a Chevrolet trademark, above the ademater, Green direction signal prows are at either upper corner of the condrast. The Pawerelide indicator dial, a part of the instrument cluster, is replaced by a bright metal legart on vehicles not so envisoned.







# The util

parment is further increased by its design. The invarid and forward-shaping walls place the floor of the compartment considerably below the level of the door lover edge, thus pervising a more success stowage for small, leave articles. In addition, a convenient shall is provided by the inner surface of the door which, when fulful genard, is a fifth articustal surface any mentaled by two round depressions. STEERING COLUMN.

# 

the use of a new concentric-type gearshift control shaft which is housed within the steering column. At the switch for the accessory signal is also of concentric design, only the gearshift and direction signal control levers extend from the smooth surface of the column.



#### SEAT STYLING . . .

The are sent styling porturys the lowery of the interiors. With well-rounded contents for deep cashioned opporance, the sent feature two-tone trin for all models. Upholistry materials include new fabrics and pattern cloths as well as the durable and stylink elacacides and viryls evalidable in many combinations and new verticel-ribbid design, continues to be mounted on the back of the front sent on models of the 200 and 2000 Series.





#### DOME LIGHT . . .

Nome Cutes of the me light, framed by a bright metal bazel, is standard on all models except the Sport Coupe and Convertible, Featuring great er operating convenience, the light is controlled by automatic waithches at all does of Series 2000 models and front doors only of models in the 2000 Series. In addition, the light any be turned on or off by the combination headlight and does light switch located on the instrument possit.

# STATION WAGON REAR SEAT . . .

All station wapon models feature a completely folding rear seat. Both the backrest and seat cushion fold flat and become part of the load platform, thus increasing the maximum length of the





#### LUGGAGE COMPARTMENT . . .

The 1955 Chevrolet reveals a roomy and convenient luggage compartment. Drastic styling changes, with a lower deck lid, necessarily entail a reproportioning of the compartment. However, the usable capacity, which totals 20 cubic feet in values for sedans, is easy slightly decreased.

A new feature of the Luggage compartment is the convenient method of cattleries tool and time strouge. The combination jack handle and wheel wrench fits into the wheel well, with the tire. One and of the jeck column fits into a socker on the compartment floor and the other is credified in a brocker welded to the sidewell. The tire and wheel is then pulled tout against the jeck by a wing not, using the jeck bear so a clamp.

Metal panels painted lower body color form the sidewalls of the luggage compartment, while the front wall is of black composition board and the floor is covered by a black rubber mat.





SEDANS . . .

Sorts ore rollared in a combination of sourh pattern cloth and leather graine lancade which well supersease the interior elapance of the 2000 Series sedious, Continuing the two-tone effect, a blend of absorbine flat cloth, elaccafed and visyl is used on the smoothy realized sidewalls which again feature built-in our mests. Carpeting, covering the flow of both the front and reor comportments, contributes an editional two-ked flowury.

To harmonize with the exterior colors, the interiors are available in two-tones of green or blue, brown and beige, turquoise and ivary, or coral and gray.

# SERIES 2400

smoothly with the new pattern cloths and coated fabrics of the cushions and backrests,
Particularly distinctive is the sidewall styling,
A bright metal modding, in the shape of a flat V
on the front door and sweeping rearward, divides
the light and dark toos fabrics of the sidewall trim,
Center panel material is continued onto the sides
doors of sill models in the 2-00 Series sweeping
that the station wagon rear doors. Eighteen interior trun
combinations, divided among the five models in the

series are keyed to the exterior colors,

Special luxury characterizes the interiors of models

in the 2400 Series. The amart seat tailoring re-

veals new double arch bolster styling which blends

The instrument panel has exclusive features and special trim in keeping with the individual elegance of the 2400 Series medies. The five cars of the 2400 Series medies. The five cars of the elegance of the



SPORT COUPE . . .

The dashing lines of the Sport Coupe are enhanced by the distinctive interior trim. New and durable straw pattern clash is used on the cushions and backrests, complemented by the leather grain elascofab of the bolsters and facings. The all-vinyl sidewall styling repeats the seat colors.

Generous use of bright metal further accentuates the altra-ament interiors, lackuled are the exposed roof baws, rear window molding, interior light baxels and the upper part of the side window molding. Floors of both the front and rear compartments are covered by cappet. Interior trim combinations are available in corol and gray, or beige with green, blue red or traposits.



# CONVERTIBLE . . .

The striking interiors of the 1955 Convertible are evailable in six color combinations all of which feature seat tim entirely of elascolab with the rich appearance of top grain leather. The smartly styled seats have ribbed cushions and backersts, deathed by white sodies stitching. Carpeling covers the front and reor compartment Hones.

An added note of distinction is provided with the bright metal molding at the windshield sides and top which is well displayed when the top is folded.

## STEERING WHEEL . . .

STERKNOWHELL. The three-pools design of the new strengs wheel features a deeply recessed had no a place considerators and deeply recessed had no a place consideralation of the construction of the construction of the interest of the construction of the stage of the construction of the construction of the stage of the construction of the construction of the substant is replaced with a gold-plated V emblem on mode at with the control V-8 engine.

The spokes of the full-circle horn ring partially cover the spokes of the steering wheel, adding a decorative bright metal touch to the overall design.





# STATION WAGON . . .

Combining outstanding verstillity with the distinguished apparamene of other models in the 2000 Series, the station wagon features interiors insidiar to those of the 5port Coupe. Cushions and backwasts ore in the new strow pottern cloth with boltzers in either blue or being leather grain electedy. All viright sidewalls and headfling complete the interior trim. Colored rubber mots cover the front and rear paramenes.

A new feature of the station wagon in the 2400 Series is the built-in arm rests on the front doors, as an other vehicles in the same series.



# LOAD COMPARTMENT . . .

The pleasing trin of the passenger compartment is complemented by the styling treatment of the compa space at the erea. Sidwall updaletery is continued into the rear quarters, with the wheelhouses covered by leather grain vinyl. The load compartment floor, including the back of the rear soot backwast and bottom of conthinc, as well as the tail gate, is covered by risbed linoleum, in dark beign. Bright metal moldings hind the front edges of the load compartment as well as time the space for well cover.

New toil and lift gate hinging and locking provide increased officiency in 1955. The lift gate, on slender goose neck hinges, can be held open in two positions by new supports which hold it in either a horizontal position for ventilation or considerably above herizontal to facilitate loading.

The rail gate features two exposed kinges replacing the foll-width kings of previous models. The supports consist of steed cables which retract into the body on spring looded reals when the rail gate is shut. New ratches locks, operated only from the T-hondles on the outside, keep the rail gate closed which in turn locks the lift gate with a slat and pin arrangement. Thus the tail gate is opened first, which then permits the lift gate to be opened.





#### SEDANS . . .

All-viryl sidewalls are combined with full clath seet trim in the smort, modern interiors of the two and four-door sedans of the 2100 Series. Pattern clath of the cushions and backrests is blanded with gabarine ripple weave clath on the bolsters and facings. The front and rear compartments utilize rubber mats as floer covering.

Interior color schemes available are two-tone combinations of green, blue or brown.

## **SERIES 2100**

The smart two-tone interiors of all models in the 2100 Series reveal new beauty for 1955.

The instrument panel, with its quadrant-shape instrument cluster and centrally located glove compartment, has the crown and lower portion painted in dark tones while the centre section is light one paint. A distinctive note is added with the word "Chevrolet" in script on the radio grille. Control knobs of black plastic trimmed in bright metal product the same convenience as on the lowery models. A decentive bright metal practice of the provisions below the radio grille. All medical provisions below the radio grille. All medicals

the 2100 Series have a cigarette lighter, ash tray and glove compartment light. The new steering wheel and the concentric steering column accent

wheel and the concentric steering commin access the contemporary styling.

The tailored seat and sidewall trim is carried out in new pattern and plain body cloths as well as

out in new pattern and plain body cloths as well as the durable and good looking coated fabrics. The all-vinyl sidewalls again have the applied-type arm rests.

Other features of the 2100 Series are automatic light switches at both front doors, two sun shades, and rear seat ash trays on sedans and coupes.





## STEERING COLUMN . . .

The steering wheel of Series 2100 models is of the some recessed bub design on that of Series 2400, but two spokes only nagle govered and outward to meet the rin. These one partially covered by the bright metal spokes of the home blowing ring, giving the wheel a rich appearance. A chrome plated emblem, resembling the bood and deck lid emblems in miniature, is superimpsed on the hub and is replaced by a bright metal V emblem on models with the optional V-8 engine.

## CLUB COUPE . . .

# STATION WAGONS . . .

The attractive interiors of both the two and four-door station wagons in the 2100 Series are similar in appearance. Vinyls with an embossed steerhide stitched effect are featured on the cushions and backrests. Balsters and facings are of elascofok with a leather grained finish.

Rubber mats cover both the front and rear passenger compartment floors while dark beige ribbed linoleum is used for the load space. Interior trim combinations are available in a two-lone green, beige and brown or blue and beige.





# SERIES 1500

Smart two-tone interiors with gray and black seat and sidewall upholstery are used in all sedans, while the station wagon offers a choice of two trim combinations entirely in vinyl and elascofab.

The two-color styling is continued in the instrument panel. With the same modern, functional styling and convenience of other series, the panel of the 1500 models features the centrally located glove compartment, the new instrument cluster, and the parking brake handle at the left of the steering column. All control mobs are of black plastic. Provision is also made for the installation of the cigarette lighter as well as an sab tray, electric clock, glowe compartment light, radio and heater.

Together with a new steering wheel and the gearshift shaft concentric with the steering column, the interior is an excellent example of utility combined with an extremely smart appearance.



#### SEDANS . . . The interior treatment of Series 1500 sedans

features cushions and backrests of a new gray pattern cloth which is highlighted by vertical rows of crised chevrens. Contrast is provided by the black elascofeb balsters, and the all-virght sidewalls match the seet trim in color and design. Floor mats are textured black rubber.

# STEERING WHEEL . . .

The same basic recessed hub, two-spake steering wheel of the 2100 models is used for the 1500 Series. However, the horn blowing ring and hub ornament are replaced by a horn button, framed in a bright metal bezel and embellished by a small decorative shield similar in design to that of the hood emblem.



# STATION WAGON . . .

The functional qualities of the 1500 stetion wages are enhanced by the interior trim. Available in two caller combinations, two-tone green or being and brawn, the vinyl and elascafab interiors are as practical as they are decreative. Featured on the sidewalls, cushions and back-rests is a new textured viryl, carrying an attractive likelet code pattern.

Passenger compartment floors are covered by black rubber mats, while the load space uses dark beige ribbed linoleum.



VISIBILITY	
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SIZE AND ROOMINESS	
	6
VENTILATION	
	7
BODY AND SHEET METAL	
	7:



AREA	1954	1955	INCREASE IN SQ. IN.	PER CENT
Windshield	853.1	1018.5	165.4	19.4
Front Door Windows	606.0	632.6	26.6	4.4
Rear Door Windows	634.0	673.1	39.1	6.2
Rear Quarter Windows	NONE	123.7	123.7	
Rear Window	880.4	1067.2	186.8	21.2
Total	2973.5	3515.1	541.6	18.2





## VISIBILITY

With the contemporary styling, longer appearance, and reduced overall height of the 1955 Chevrolet, there is also a large increase in general glass area. Driver and passengers alike enjoy a new sense of open comfort with panoramic vision and a minimum of obstruction. All four fenders are visible from the driver's seat, thus adding judgement of vehicle width in parking or masseuvering.

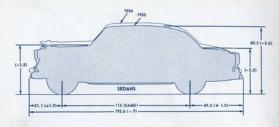
want in placing or unineserving, as atsandard or comparison, the actual increase in visibility and comparison, the actual increase in visibility are amount for more than 18 per cent. The new wraparound windshield, the same size in all models with the exception of the sport coops and convertible, features an increase of 165.4 square inches, act total of 19.4 per cent, over the previous design. This area is greater than the combined areas windshield and verificances in 1954; in fact, the 1955 windshield and verificances in 1954; in fact, the 1955 make position of the former ventioners.

The rear window shows an even greater increase, 186.6 square inches, or a little more than 21 per cent, having been added to that area. Other increases in front and rear door window area, together with the addition of rear quarter windows, further embance the open appearance and passenger. comfort of the 1955 car.

Because of their lower silhouette, the windshield for the sport coupe and the convertible is slightly smaller in total area than it is for the seduns or station wagons. In the case of these two models, however, the total increase for the new wrap-around windshield is 204.2 square inches, or more than the next court of the second services.

		Area Increase		
Body Type	Model	Sq. Inches	Per cent	
2-Door Sedans & Club Coupe	2402, 2102 1502, 2124	507	16.6	
Utility Sedan	1512	490	16.1	
Sport Coupe	2454	549	19.8	
Convertible	2434	396	16,2	
Station Wagons	2409, 2109	264	7.1	

Note: 2-Door Station Wagons, models 2129 and 1529, cannot be compared since there were no similar models in 1954.



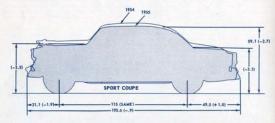
#### SIZE AND ROOMINESS

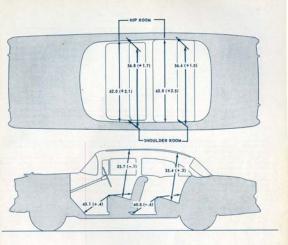
The completely redesigned 1955 Chevrolet, with its lower silhouette and longer appearance, sacrifices nothing in measurements affecting passeager comfort or maneuverability. In fact, many of the interior dimensions exceed those of previous models.

Overall heights, including those of hood and reasdeck, are considerably lowered for all models while the wheelbase is unchanged and widths are reduced. Schulity is increased with the lowering of the centerwider front wheel trend. The descriptions that follow refer to the four-door sedans and station wagens, the changes for these models being typical of the entire line-up.

FOUR-DOOR SEDANS. Extensive frame, suspension, and body changes permit overall height reductions with no loss of headroom space. Overall height of the loaded car is reduced by 2.6 inches, The helt line also is lowered, with decreases of 3.5 and 3.5 inches in hood and rear deck lid heights respectively. Step heights are reduced more than an inch.

Factors contributing to these dimensional changes are many. There is a reduction of 1 inch in frame height measured at a point midway between the front is now 6.9 inches above the ground as compared to 7.9 inches for the 1934 models, due to the slight frame kick-up over the front suspension as well as the repositioning of the rear apprings to the sides of the frame side members. Seats are also reduced 1 inch for the front and nearly 1/2 inch for the rear. Thus, coupled with the lower chassis,





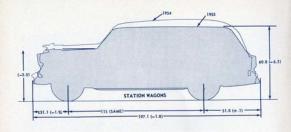
the front seat is 2.48 inches closer to the ground, with the same dimension decreased 1.56 inches for the rear.

Ground clearance remains the same under the rear axle and is increased at the front. With the new spherical joint front suspension, clearance unuser the lowest component is now 8.1 inches as a compared to 7.2 inches for previous models. However, the minimum clearance, which is under the exhaust pipe as it was in 1954, is 6.5 inches as Compared to 7 inches for the great of the compared to 7 inches for the great of the compared to 7 inches for the great of the great of the compared to 7 inches for the great of the great o

Overall length of the new models is decreased , 9 inch, with the 1.9 inch reduction in front overhang and the 1 inch increase in overhang at the rear. This, of course, results in a larger angle of approach and a slight decrease in the angle of departure. Interiors of the four-door sedan feature dimensional changes which contribute materially to increased passenger comfort. The front seat shows increases of 1.7 inches in shoulder room, 2.1 inches in hip room, for a total of 5.2 inches, and a. 4 inch increase in leg room. Headroom is virtually unchanged.

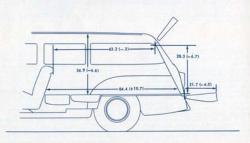
Rear seat roominess also is improved, showing increases of .3 inch in headroom, 1.5 inches in shoulder room and 2.5 inches in hip room, or 63 inches in total width. Leg room in the rear seat is slightly reduced.

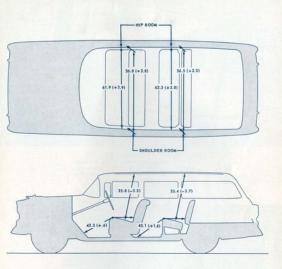
Two-door sedans and the club coupe show similar dimensional changes. The sport coupe, traditionally lower than sedan models, retains the same 1,4 inch differential with a 2,7 inch reduction, the maximum overall height under load being 59,1 inches.



STATION WAGONS. The entirely new silhouette of the station wagon involves dimensional changes more drastic than in the case of other models. Overall height has been lowered 6.3 Inches, to within, 3 Inch of the 1955 sedans, thus permitting station wagons to have the same windshield height as the sedans. Overall length is decreased 1.8 inches with the front overhang shorter by 1, lonch and the rear overhang longer by 1 inch. Thus, as on the sedans, the angle of approach is increased. and the departure angle decreased very slightly. As in other models, overall width is decreased by 1 inch.

Reductions in headroom as well as load space height result from the lower body heights. The front seat shows a decrease of 3.3 inches in headroom. This is not as unfavorable as it appears, however. The headroom dimension of 35.8 inches is still alightly greater than it is for the sedans, Other front seat dimensions show general increases





with 2.8 inches added to shoulder room, 3.9 inches to hip room and an increase of .6 inch in leg room, The rear seat shows similar changes with a 3.7

Inc rear seat snows similar changes with a 5.7. inches as on the sedans. Shoulder room is enlarged by 2.3 inches, hip room by 3 inches and rear seat leg room by 1.6 inches. Thus the dimensional story of the station wagon accurately reflects the styling changes in these models which gives them a trim and rakish appearance,

With the large decreases in overall height, load

space is also reproportioned. The new rear seat design, which permits both the cushion and backrest to fold flat and form part of the load platform, increases maximum length 16,7 inches. This helps to compensate for the 6.6 inch reduction in load space maximum height. Load space width between wheelbnesses shows an increase of 4 inch. Cargo could be seat of the country of the cou



#### COWL INTAKE . . .

On the cowl top panel, away from road dirt, five banks of louvers admit outside air into the ventilation system. The slant-down louver design presents a trim appearance and assures a high air intake capacity.



# VENTILATION OUTLET . . .

Large outler lowers on each cowl side panel are designed for wide distribution of incoming air at the flow and body levels. Knobs at each end of the instrument panel provide convenient control of air flow to soil individual perferences of the driver and front sent possenger.

#### VENTILATION

Prominent among the advanced design features of the completely re-engineered body is a new "builtin" summer ventilation system. Advantages include a cleaner, cooler air supply and more effective circulation at the floor and body levels.

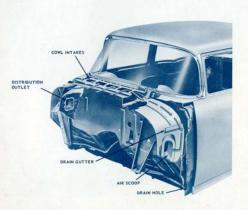
Outside air enters the system through a cowl top intake, flows through a large enclosure, called a plenum chamber, and into the passenger compariment through outlet louvers in each cowl side panel. The plenum chamber is formed by double-walled construction of the cowl top and sides.

Since intake air is no longer tunnelled through the engine compartment, the air passing through the outlet lowers is cooler. In addition, the new location of the outlets permits more effective distribution than was possible with the former straightthrough design.

The area in the driver's compartment closest to engine and transmission heat now receives cross ventilation. Incoming air is also directed in a broad spread toward the front seat passengers, and when used in combination with the ventipanes and lowering windows, thorough ventilation of all levels is assured.

Pall-out knobs are cable-connected to butterfly valves housed in curved air acops which surround the louvered outlets. The design of the air scoops creates an air flow path which water cannot flow so that, even in heavy rain, the system may be operated at fall capacity. Water is simply changing patters over the air scoops and out of the many changes are also also also also the flow of the plenum chamber.

A separate intake is provided in the right cowl side panel for the outside air heater. With this arrangement, both the regular ventilation outlet and the summer ventilation feature of the heater are always available - either independently or in combination,



# BODY AND SHEET METAL

Together with the complete styling transformation for 1955, Fisher Unisteel body construction incorporates major structural improvements as well as a number of design features which provide greater passenger comfort and convenience.

The load-bearing structure of the automobile consists essentially of two separate units - the chassis frame and the body frame. Each assumes its share of the loads according to its ability to resist deflections. In spite of considerable increase in glass area and consequent enlargement of window openings, the 1955 body-frame combination has greater torsional rigidity than its predeceasor.

Structurally, the body is a framework of selfreinforcing box-type girders integrally joined to resist distortion. The foundation is a two-piece steel floor, welded into a single unit reinforced by embossed stiffening ribs and a ladder construction of box-type rocker panels joined by four U-channel or braces. A double wall cowd assembly, new rear quarter construction, strong ullars, double wall doors and deck lid form the sides. The turret top is reinforced by box-section side rails connected at front and rear by header bars and at the center by a U-channel roef bow.

a U-channel root now.

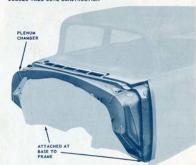
The new code assemble, he me outstonding feature.

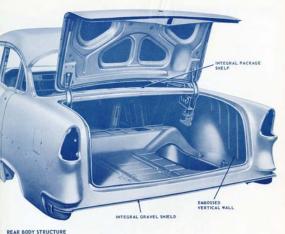
The new code assemble, he primary consideration
in the choice of plenum chamber construction was
the inherent structural strength of its box-section.

As designed, the plenum chamber functions not only
as the principal component of a highly effective
ventilation system, but also as a key structural
member. Its double-well strength is used to full
advantage in bringing about a closer structural integration of body and frame, its uses as a solid
around windshield is another important factor in the
overall design of the car.

A rigid framework for the plenum chamber and the vertical windshield pillars is formed by a onepiece heavy gauge panel, called the pillar facing, which wraps around the door opening section of the







windshield pillar and hinge pillar. The flared section joining the upper and lower pillars is reinforced by a heavy gauge angle brace from the plenum chamber.

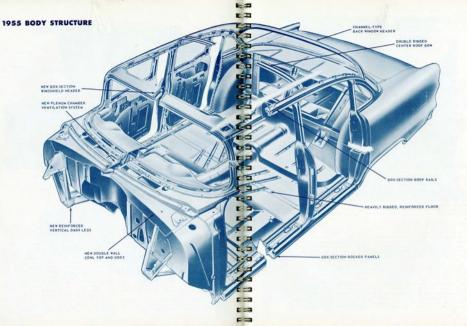
A foundation for the column framed by the cowl side panels and the pillar facing is formed by a heavy gauge reinforcement welded to the base of the millar at the floor to assure longitudinal rigidity, To add lateral rigidity, another heavy gauge outrigger brace is welded transversely under the floor.

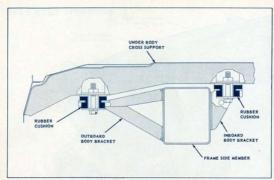
U-channel outrigger brackets from the frame side members attach to the base of the arch formed by the plenum chamber to utilize its lateral beam strength, in effect as a frame cross member. The new construction eliminates the need for the second cross member formerly used.

Since the dash-to-frame braces are now parallel with the front of the dash, they attach farther back on the frame side members and have less tendency to transmit front end shake to the body. U-channel braces, backed by the floor, reinforce the dash legs to maintain the beam stiffness of the body shell.

The rear quarter inner panel, from the door opening to the deck lid opening, and including a deep drawn wheelhouse, is formed from one solid piece of sheet metal. This inner wall is ribbed at the rear, welded to the outer panel along the deck lid opening, and gets solid support from the floor, By bringing sidewalls of the year end box-structure in line with the chassis frame, vertical deflections are effectively resisted. This vertical wall construction eliminates the need for the wheelhouseto-lid opening braces formerly used and requires no welding seam at the formed wheel openings,

The gravel shield is now integral with the body at the rear lower end panel, and the package shelf is integral with the upper end panel to provide additional registance to torsional stresses.





RUBBER CUSHION BODY-TO-FRAME MOUNTINGS

The inner and outer quarter panels, outer roof rail and rocker panel, center pillar, and front pillar facing are now framed as a unit. This new fabrication process, called Unitized Side Frame Construction, improves body shell alignment and dimensional control and assures accurate fitting of the doors.

The stiffness of the center pillar, which is narrower above the belt, is maintained by increasing the length of its heavy gauge reinforcement.

Vertical windshield pillars give a rectangular shape to the front door ventipanes and increase their effectiveness during rain. Deflectors over the ventipanes are eliminated since tests, conductated under actual and simulated rain conditions, indicate no further need for their use.

To facilitate the installation of accessories by Chevrolet dealers, many new provisions are included in the design of the body. Punched holes and locating dimples in the body panels, perforated outlines in the dash mat, as well as knock-out plugs and fasteners not only simplify installation of the accessories but assure accuracy of fit.

Provision is also made for relocating the entire front seat assembly one inch to the rear to accommodate the unusually tall driver. Four dimples in the floor panel and pilot holes in the rear bracket accurately locate the new position for easy adjustment by the dealer.

The passenger compartment on all closed body models is further isolated from the jarring effects of rough roads through new rubber cushion bodyto-frame mountings. The cushions, which replace hard rubber-fabric shims, are molded from a special rubber compound having excellent sound and vibration damping properties and a low permanent set.

To take advantage of the great fatigue strength of rubber in compression, the construction places no tensile leads on the cushions. Downward loads compress the upper cushion; upward loads compress the lower cushion. The freedom of motion between body and frame required for the cushioned ride is relatively slight. Very minor frame deresidencing member of the combined structure,

The 20 point attachment of the former sedan body-frame combination, and the 22 point attachment of station wagons, are supplanted by 14 wider-based mounting points. The sport coupe uses 18 and the convertible 20 body-to-frame mountings, four fewer than previously required.

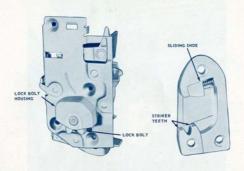


# TORSION ROD HINGES .

To provide the widest possible span of usable clearance, the deck lid hinges are moved to the outer edges of the agening.

Two tersion reds replace the compression springs farmely used to counter, balance the weight of the deck lid. Each red attackes to a hinge strop on the lid, and firs into a notch on the opposite hinge box. The reds are preloaded in tersion to held the lid in the wide open position. As the lid is moved down, the tersion loading of the reds is increased. At the same time, the center of gravity of the lid moves further out from the pivot center of the hinges. The mechanism is designed so that, at ony position of the lid, these opposing forces balance each other. Since a slight force in either direction upsets this balance, raising and lowering the lid is virtually defortless.

Though lifting effort is slight, control of the operation is never lost and, since counterbalancing is uniform throughout the full travel of the hinges, the lid has no tendency to swing past the point of release.



the cylinder.

#### ROTARY DOOR LOCK . . .

A new rotary door lock provides easier, quieter and more reliable operation in 1955, although fewer parts are reauted than in the previous design.

A substantial decrease in the effort required to operate the outside push butten is achieved by increasing its trevel from helf as inch to the present there quarters of an inch. The increased movement of the actualing lever has the further odvantages to permitting a lock design which is less critical of adjustment and does not require selective fitting of the outh button stems.

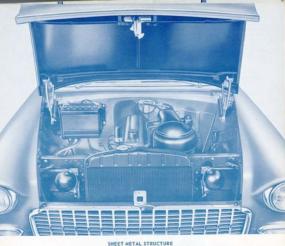
In the former design, alignment of the door in the body opening was maintained by a separent silling wedge type also in the striker plate and a considerable parties of the classing force was required to overcome the first of the wedge against its also as it forced the door into alignment with the body apening. By eliminating the separent slat in the striker apening, alignment is maintained with neighble resistance from silling first in the new design, the lock belt simply rolls on the lower test of the striker apening and its held in firm engapout by the force of the stilling shoe against the lock bolt housien.

Relocation of the key lock cylinder to the door panel below the handle permits the streamlined styling of the push button and makes the lock less susceptible to freezing. In the previous design, a passage was provided to a drain hole near the rear of the lock cylinder. Since the cylinder now extends into the door panel, it is passible to locate the drain hole immediately behind the key shutter and thus permit water to escape before reaching

In the operation of the lock, the lock boll contracts the striker and relotes into engagement with the tenth at the lower and of the striker apaning on the door is closed. A paping-loaded deem lever allows the internal latching cam, ornached to the lock bolt shelt, to retcher. When the door is fully loaded againstits was, the lever engages are sufficiently closed, the first both acts on a safety cotte. To spee the door, the distant lever must release the

To open the door, the detent lever must release the locking cam so the lock bolt is free to rotate. The action is initiated by either the outside push button or the inside remote control handle.

The keyless locking feature is retained in both front and rear deers. Rear does locks also continue the free wheeling feature which renders the inside door handle inaperentive when the lock button is depressed. Provision is made for adjustment of the rear locks by the dealer to elliminate the free wheeling action when desired by the aware.



Extensively redesigned structure supports the sheet metal, making it stronger and more effectively aciple of mounting. Operation of the new one-piece hood is easier and more convenient through use of gear-type hinges with improved counterbalancing and a lock of new design, The fenders, grille, and surrounding sheet metal

again form an integrated framework attached to the hody and mounted at a central rubber-insulated point on the frame front cross member. The unitized structure receives no direct support from the frame side members and consequently escapes the brunt of road shocks to which the frame is subjected,

The windsnlit line and formed wheel opening add rigidity as well as styling appeal to the front fenplacing the former front and rear skirts at the sides of the engine compartment, forms a solid boxstructure with the fender. The skirt is joined to the fender at the rear by a brace to the wheel opening flange and gets solid backing through supports is attached along the lower edge of the skirt where it fits against the frame side member. Three widely-spaced cross members maintain

alignment and rigidity across the front end. The grille-to-bumper filler panel connects the fender skirts and front extensions; a sturdy reinforcement apans the grille header line; and a new fender-tofender U-channel tie bar is riveted through gussets to the radiator support side channels to serve as the main cross-beam supporting the entire structure. To take advantage of the new frame design, the

radiator support is center-mounted to a heavy gauge angle bracket welded to the frame front cross member. The new mounting eliminates the need for a separate radiator support cross member and serves as a base for both a filler panel center reinforcement and hood lock plate support,

The wrap-around front bumper ends are tied to the fenders through a bracket boited to the fender extension-to-fender flange. This method of attachment prevents rattle but still permits sufficient side mounting freedom to assure a full measure of the advantages inherent in the center mounting principle.

Typical evidence of the thoroughness of the 1955 engineering program is found in both the structure and operation of the one-piece hood. A marked increase in hood panel stiffense is achieved through a structural rearrangement which takes advantage of the hood shape at the front end. A heavy gauge upper lock plate bracket, attached by the hood ornament study and riveted to the front flange, is

formed to fit the doswward curve of the hood front end, Two rods statch disgonally across reinforced front corners and draw the panel up tight against this reinforcing center bracket. A new radiator upper baffle, riveted to the lock plate bracket, spans the arch of the hood and is attached at the sides adjacent to the reinforcing rods to complete a rigid box structures.

The rear edge of the hood is now flanged and welded to a new three-piece reinforcement. The wide flare of the two end pieces contributes broader, more rigid cross-wise support.



#### HOOD HINGE . . .

New gear-type hood hinges are engineered for better operating characteristics. Uniform hinge operation is assured by interlocking gear teeth cut concentric with the lever pivots of each hinge. Common attachment to the hood at the rigid rear reinforcement precludes independent hinge action.

True counterhalaccies, through full kings travel replaces the over-centre counterhalaccies of the part. In ony open pasities, the weight of the boad is supported by springs which attach at both ends to the geer-linked levers of the operation mechanism. The shift of the hood weight to the recent of the general networking of dwild-excising hood springs permit the use of lighter springs and result in a wider hold-goop position.



# HOOD LOCK . . .

The hood is opened with one hand and in one continuous motion. The operation is reduced to reaching under the grille header bar attached to the hood, pulling the lotch hondle and raising the hood.

The "unlocked hood" danger is virtually eliminated by an improved safety catch and anewdesign self-locking mechanism. Both the safety catch and the lock catch are piloted through a hale in the lower lock plate. This restriction limits movement an all four sides so that the safety catch locks sufficient freedom to slip off the lock plate.

The lock operates on on expanding wedge principle, permitting only downward movement of the hood while the car is in motion. Positive locking is provided down to the completely closed position.



# CHASSIS AND ENGINE

THE 1955 CHASSIS
FRAME8
FRONT SUSPENSION
STEERING9
REAR AXLE AND SUSPENSION
BRAKES, WHEELS AND TIRES 10.
REGULAR PRODUCTION ENGINE
ELECTRICAL SYSTEM
THREE-SPEED TRANSMISSION



E 3

ED



### FRAME

The box girder frame, a famous Chevrolet "first" is fifty per cent more rigid and more than eighteen per cent lighter in the 1955 design. The double benefit of increased rigidity with less weight is accomplished by integrating the front suspension cross member into the frame structure and deleting the former radiator support and engine rear support cross members. Also contributing to the greater rigidity are an improved attachment of the year cross member and straighter side members with a larger, wider box section. To provide the improved cross member attachment, the frame is assembled as a complete structure and precision drilled at the fabricating plants for installation of the front suspension on the car assembly line. Previously, the front suspension and front cross member were unitized and assembled with the other frame components at the car assembly plants.

Incorporating a flanged channel section with welddo-on bottom plate, the ends of the front cross member are riveted and welded to the top and bottom of the frame side members instead of being botted to the bottom flange only, as was the case in previous designs. Also, the cross member is relieved of some vertical loading requirements since the frame side members forms part of the front surposition of the side of the side of the side of the properties of the side of the side of the front cross member and attaching the end of the inboard half to the back of the cross member. The touter balf then curves a round the coil apring and outer half then curves a round the coil apring and attaches to the front and back of the cross member. Forward off the front cross members are continued as simple channel sections and extend 10.5 inches farther forward than in 1954. By adding channel braces between the front cross members and the side member extensions, fearne rectangular alignment is preserved and the forward and off the side members in smale very rigid for direct mounting of the bumper. Front end there are the control of the side members in smale very rigid for direct mounting of the bumper. Front end there were the side of the side

to improve doop support, and to provide the safe of the type of attachment for the rear bumper as for the front, frame side members are extended 6.55 inches further behind the rear acts. A channel-type rear cross member, riveted and welded to the top and bottom of the side members, replaces the former box-section member that was riveted to the bottom flanges of the side members.

In a plan view, the new frame appears more retangular; that is, the frame side members pass around the front suspension coil agring towers, they are 14.2 inches farther apart at the narrowest point than at the similar point in 1944 and due to the outboard mounting of the rear springs, wereal frame mensional changes leave the side members essentially straight and porallel to climinate twisting tendencies produced by vertical loads. Frame side members themselves are of a new design. With approximately the same amount of design, with approximately the same amount of steel in a maximum section as in 1954, the new side members use a uniform wall thickness to coverer a greater cross sectional area than previously, thus increasing the section modulus, or the relative strength of structural members of similar design and material, by 18 Ber cross

The increased cross sectional area indicates a preater resistance to resistance in the preater than preater resistance to resistance in the preater than same height as in 1954. This resistance to twisting of the individual side members is incorporated in the complete new frame assembly through the integrated attachment of the two cross members, providing a frame that is fifty per cent more twist resistant.

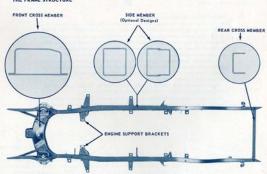
The engine rear support, which was formerly a structural cross member, now consists of two short brackets welded to the frame side members. Although this eliminates a cross member, the elimination of torque tube loads formerly transmitted to

the frame at this point, the new rigid cowl construction and the inherent rigidity of the frame structure as a whole provides ample compensation. Elimination of the engine rear support cross member also facilitates removal of the transmission in service.

Two basic methods of construction are being employed in manufacturing the frames. The first design has each side member formed from a single strip of flat steel stock. The stock is first rolled and welded into a tube, then is run through a series of rollers to achieve the final rectangular section. Frames of the second design use side members rower than the other so they can be partially over-rower than the other so they can be partially over-

lapped and welded to form a rectangular section. The special frame for the convertible is of the second design with a welded-in X-member relinerement Indirected from 1-beams, and inverted channels welded to the underside of the frame side emembers. Both the convertible and sport coupe will again use extra body mounts, although in the case of the sport coupe, the naw design climinates

### THE FRAME STRUCTURE





# FRONT CROSS MEMBER ATTACHMENT . . .

To better utilize the structural strength inherent in the front cross member, the 1955 frame integrates this member into the frame structure.

Previously, the front cross member was assembled with the front suspension as a unitized structure and then was attached with eight bolts on each side to the bottom flonges of the frame side members. However, the strength of the cross member was not fully realized in this design.

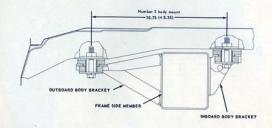
In 1955, the frame-to-front cross member structural integration also permits a much greater integration of function. As shown in the illustration, the frame side member forms part of the coil spring tower and makes provision for mounting the rebound control bumper.

Frame assembly resistance to twisting is increased by the front cross member attachment to both the top and bottom of the frame side members.

Rectangular alignment of the frame assembly is assured by the channel braces extending from the front cross member to the forward end of the frame side members.







### WIDER BODY MOUNTS . .

Illustrated above, are typical body mousts which, being more widely separated in 1955, provide more uniform support of the body. Although the average width were the outer mounts is not increased, the mounts on the inhound side of the frame side members are closer to the centerline of the chassis due to the narrowing of the overall frame width. However, the outbook body mounts of more rigid design are extended to the same overage overall width as in 1954 thus creating the wider separation of mounting points.

#### BUMPER ATTACHMENT

Greater sheet metal protection is provided with the new more rigid bumper attachment. Due to the increased length of the frame side members, the only function of the bumper benecktes is to present a surface at the ends of the frame side members for bumper attachment. This strenger and more rigid mounting, plus strenger bumper face burs, insures greater protection for front and rear sheet metal and

radiator grille.

Since the attachment of the bumpers to the frame side members also rigidly prevents side movements of the bumpers, the possibility of bumper, or bumper-tosheet metal, cattles is prevented.



# FRONT SUSPENSION

Chevrolet's Knee-Action Suspension, time-tested by millions of owners, incorporates important new design features for 1955 and an innovation exclusive to Chevrolet - braking dive control.

The advantages of even greater durability, improved ride and stability, as well as simplified periodic maintenance, result from such engineering developments as unique light-weight apherical with non-metallic concave bearing surfaces; rubber and reduce the transmission of road shock and reduce the transmission of road shock and vibration, diagonally mounted cell springs and shock showbers; and wider front wheel tread,

The coil springs and shock absorbers are again mounted concentrically, but the upper ends are inclined toward the center of the car instead of being vertical. The springs and shock absorbers thus are positioned more nearly tangent to the lower control arm are of travel with the result that distortion of the springs in suspension movement is described by the springs of the springs of the control arm are described by the springs and shock absorbers also contributes to stability. In fact, the stability of the 1955 car is increased to the extent that a stabilizer bar is no longer necessary.

Durability of the front suspension has been improved by limiting to a bare minimum the number of points where friction cannot or should not be avoided. To this end, Chevrolet engineers have developed extremely durable spherical joints that replace the former control arm outer javots, king spherical joints of the spherical joints for more than the immediate advantage of reduced weight and fewer hearing surfaces. For example, the ability of a spherical bearing to move in any direction has been utilized Originally developed as an improved bearing macropropers.

Originary sevenopee as an improve usering mixterial for use in steel reliaing milts and especially reliable to the seven of the seven of the concern of the concave bearing surfaces, moided of phenolic impreparted fabric laminations, are a feature in themselves. In addition to dearability, this new bearing material has characteristics which make it well saited to use in the front suspension. Compared with a metal-to-metal type bearing, it is less affected by infrequent labrication and is less sensitive to foreign matter.

Another suspension feature which also improves durability and dampens road shock is the rubber mounting of the control arm inner pivots.

As a result of the new spherical joints and rubber bushed control arm pivots, the number of points requiring periodic lubrication in the front suspension is reduced from 16 to 4.

Control arms remain pan-like stampings and are newly designed to take advantage of other suspension changes. The spring towers now are relatively closer to the centerline of the car so that the upper control arm no longer has to be designed in a V shape to provide sufficient clearance. Also, the upper spherical joint assembly mounting permits the control arm flange to continue uninterrupted around the outer end. As part of the overall efficiency of the front suspension, these design changes

provide greater strength and longer fatigue life. The lower control arm receives the same flange treatment at its outer end as the upper control arm, and has added support for the inner pivot bushings as well. To eliminate the possibility of accumulations of mad or snow hampering suspension movements, the lower control arm pan section is inverted from the previous design.

Since the new front cross member is integrated into the frame structure at the frame plants, front suspension assembly is performed at the vehicle

assembly plants. Mounting holes for the various suspension components are precision drilled at the frame plants to insure accurate relationship with the rest of the chassis, and the suspension is precision assembled and aligned on the vehicle assembly line. Shock absorbers are recalibrated for a soft, better controlled ride, and feature a new method of lower end attachment.

The new shock absorber lower mounting is designed to permit the shock absorber to pivol on the lower control arm during suspension movement and time eliminate side forces on the mounting. A rubber bushed ring assembly is welded to the bottom of the shock absorber. Both eads of the inner tube of the ring are flattened and notched for attachment inside the spring seat on the lower control arm, inside the spring seat on the lower control arm to the control arm pivot axis to correlate motion of the shock absorber and control arm.

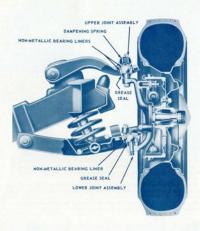
### NEW FRONT SUSPENSION . . .

Chervicel's new front suspension retains the proved short and long arm parallel link principle of independent suspension to provide the best ride over the widest range of road conditions. All components are of new design, however, to give the greatest possible durability, ease and accuracy of function with less periodic maintenance.

In addition, the tread is increased 1.3 inches so that, in conjunction with other chassis changes, stability is increased to a degree which obvious the need for a stabilizer bar.

The use of spherical joints also permits the geometric freedom necessary for the front suspension feature of braking dive control.





# SPHERICAL JOINTS . . .

Unique spherical joints incorporating non-metallic hearing liners of molded, phenolic imprepanels frobirc laminations, provide actuare durability. The opper spherical joint spring is preloaded at assembly to 425 lbs. which dampens shock and odjusts the assembly for ever. The lower joint carries the vahicle weight, which keeps the assembly loaded in one direction and therefore requires no integral spring to keep it in adjustment.

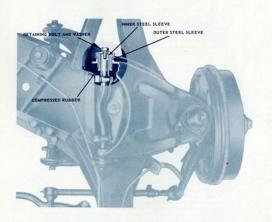
Since the only maintenance required for the spherical joints is periodic lubrication, the two halves of the housing are welded together at assembly and the joints are serviced as complete assemblies only.

#### CONTROL ARM PIVOTS . . .

New anti-friction control arm inner pivots eliminate the need for lubrication, and dampen road noise, shock and vibration.

By forcing rubber under pressure between two concentric steel tubes, a bushing is made that permits movement through the elasticity of the rubber with no friction or sliding contact to require lubbication. Asial movements of the control area see limited by the extra ring of rubber compressed between the outer steel flange and the bushing retainer.

In assembly, the outer steel sleeve is pressed in the control arm boss, and the inner sleeve is held against the shoulder of the control arm mounting shaft by the retaining bolt and washer. Thus, any control arm movements are "bushed" by the compression tribler.

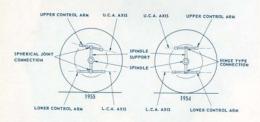


# BRAKING DIVE CONTROL



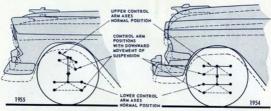
1955

Dive upon brake application is caused by the effect of weight transfer in the direction of vehicle travel when the brakes arrest the momentum of the moving vehicle. For 1955, Chevrolet has developed a unique supension geometry that, by utilizing the same farces that cause a vehicle to dive upon brake application, actually reduces beking dive approximately 45 per cent.



#### SUSPENSION GEOMETRY COMPARISON . . .

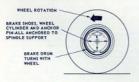
The design principle in this empineering feature is heat illustrated by direct conparison with the conventional design Genemicris(D), the 1955 design differs from 1954 in that the upper central arm pivet axis is placed at an engle with the lower central arm axis, rather than parallel. This is made possible by the use of spherical joints at the central arm-to-spindle support cannections. In 1954, with hispaters are supported by the central arm and provided support in the central arm are shall be be parallel.



#### SUSPENSION MOTION . . .

In up and down nevements of the 1955 chassis, control om gennetry course the spindle to tern on a radius about the lawer spherical joint. Bacause the upper control om is not penalled to the lawer control arm which is peralled to the ground, the more the suspension is moved, the greater the engle the spindle support notice with the vertical, an illustrated downer for downward movement of the suspension. Since the engolarity of the spindle support is produced by movement of the suspersion arms, the action is reversible in that the suspension can be mode to move by applying a twisting force about the spindle. This is the action which is utilized in controlling betwing dive.

The 1954 design was incapable of any such spindle motion because the spindle support ends had to move in the same line since the control arm axes were carallel.

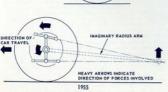


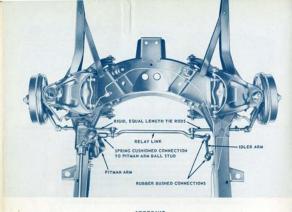
#### BRAKE FORCES . .

When brakes are opplied, the stellowary brake shows resist the terming drums, which rester with the whole sixth the terming drums, which rester with the whole Since the brake shoes, wheel cylinder and anchor pin concluded the specific support, the brakes, no resisting the terming drums, exert a twisting face on the sixthing the terming drums, exert a twisting face on the spindle-support into a sum direction on the turning spindle-support into a such turning spindle-support into a such turning spindle-support into a such turning spindle-support for a such spindle-support for the spindle-spindle

# REACTION TO BRAKING . . .

Mean the brukes are applied on a forwardmoving 1955 Chevrolet, the receion is the same as though there were redistrated at the frame. The effective length of such a redistrate was a redistrated of the frame. The effective length of such a redistrate was a redistrated of the central area was. The direction of the forces involved is shown. The amount of appared force at the frame end of the incipitary redistrated in the properties of the resistance developed by the brukes, which is a properties to the tendency of the vehi-





# STEERING

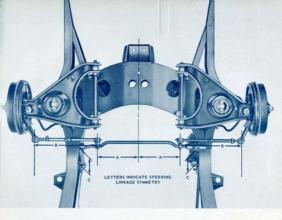
Reduced steering effort, greater operating smoothness, and increased durability are the benefits of a completely new steering system in 1935. Design changes encompass the entire range of steering functions and include: a recirculating ball and not actual steering effort; relay type steering linkage; and an abbreviated steering column must jacket for better isolation of vibration and road shock.

The new steering gear has a ratio of 20-to-1 as compared to 19,4-to-1 in 1984, while the overall steering ratio is increased from 23.1-to-1 to 25,7to-1. This, together with the increased mechanical efficiency of the new steering gear, provides much greater steering ease.

In the design of the 1995 steering system the pitman arm, extending from the steering gear, and an idder lever, supported from the right hand frame side member, are interconnected by a relay link which forms a parallelegram. Movement are govtomer of the steering the steering hand to the returnation of the steering steering the steering knuckles to the relay link to form a symmetrical steering system. The immediate advantage of this design is balance, both in effort and shock to the steering wheel is reduced. The balance of the steering linkage preserves correct steering geometry throughout the range of up and down suspension movements because the length and location of the tie rods were designed to provide the most desirable relationship with the wheel spindle are of travel. Relatively much shorter the rode insure minimum deflection under load stress. The ends of the lifter arm are mounted in rubber

bushings to eliminate friction and the need for labrication. The pirman arm ball stud connection to the relay link combines the functions of the two spring loaded ends of the 1954 drag link. That is, the pitman arm ball stud is spring loaded in two directions in the relay link to cushion road shock and vibration from the steering wheel.

Transmission of road shock and vibration to the steering wheel is greatly reduced as a result of the new steering column must jacket design. In previous designs, the must jacket was present into the steering, or for the steering of the steering sheet. The new must jacket does not extend all the way to the steering gear housing and, therefore, cannot transmits shock from the housing to the steering wheel. Four thick felt washers are used to full behavior of the steering wheel. The steering sheet is steering the steering wheel.



# STEERING GEOMETRY . . .

More accurate steering geometry through the full arc of wheel turn and through the full up and down travel of the front suspension is provided with the new relay type steering linkage. This results from the coordination of designs for the linkage and suspension.

In the new constructine, each first wheel turns about a spinille which is fixed to a list, are spinille support, that connects the upper and lower control or apherical joint news through on our of which the control is the following the control of the control of

For absolutely true geometry, the steering tie rods must establish a redius that conforms to the arc of spindle travel; and the 1955 linkage geometry is designed to do just that, with one slight deviation. Directional stability is improved providing a slight andersteer when the suspansion is extended. That is, the inside wheel in a tight turn will tend to return the wheels to a straight shaded gostifion.

The complete symmetry of linkage and suspension component design insures the same geometry or steering reaction to either a left or right hand turn.

STEERING GEAR . . . The new steering gear incorporates the recirculating ball and nut principle formerly available only with the power steering option. This type of steering gear transfers rotating force into linear motion through many free rolling balls that serve as the threads of a bolt acting against a nut. And, since a ball will roll with almost no friction, the recirculating ball and nut type steering gear achieves high efficiency with smooth operation. PITMAN SHAFT AND PINION SECTOR BALL NUT AND RACK

STEERING WORM



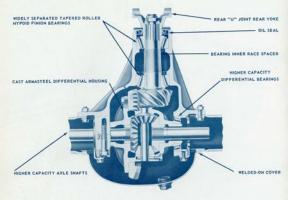
#### REAR AXLE AND SUSPENSION

Basic design changes in the new rear suspension provide a lower overall vehicle silhouette, greater stability, improved handling and ride, and smoother drive train reactions to torque and braking applications.

Probably the greatest single change is the replacement of torque tobe drive with Notchkias drive. This one feature reflects a nearly complete change to the result of th

New longer, wider mounted rear springs of more efficient design, provide durability with improved ride. By increasing the length, but maintaining a low deflection rate in the springs, durability is improved because for a given load the spring at its less acute, which reduces clastic stresses in the spring, Roll stability is improved by the broader based support which results from the wider spaced springs. Shock absorbers are recalibrated in accordance with the design of the new rear suspension.

The rear axie assembly is redesigned to meet the requirements of flotchkins drive and in addition provides greater torque capacity, improved durability, and elimination of ul seal assembly problems. These features are gained by the use of more rigid phinos shaft supports, cant Armssted differential busing, higher capacity differential bearings, as the contract of the contract of



#### 20200000

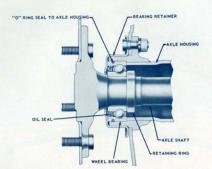
REAR AXLE . . .

The new rear axle assembly provides the extra torque capacity required with the new more powerful V-8 engine, as well as increased durability.

To improve alignment durability, the hypoid pinion shaft is rigidly supported by two widely separated topered roller bearings. With the adoption of Hortchkiss drive and the elimination of the torque tube, the hypoid pinion shaft is sealed against all leakage at the front of the differential housing. The rear yake of the rear universal joint mounts on the splinied fewared and of the hypoid pinion shaft.

The differential housing is at cost Amasteel instead of cost maleable irea, to increase structural strength and resistance to scoring. To increase durability and sergue capacity, the differential bearings are increased to the size used on the light day reck cales. Providing increased and housing rigidity for saile as-sembly durability, the access cover which formerly was belterdon is now wellded on an an integral structural part of the housing. This feature was permitted by the new method of retaining the sale shafts which does not require occass to the third member assembly.

Famenty, sale sheft inward threat was taken by a spacer black between the sale shaft inner ends and outward threat was taken by a "C" washer, fitted in an annular greave on the rate sheft inner end. The outside of the washer being seat-oil in a counterboord reces in the differential side goar. Thus, a removable sale housing access cover was required to reach the spacer black and "C" washers for sale sheft insullation and removal.



#### WHEEL BEARINGS AND SEALS . . .

Completely eliminating the possibility of seal damage in assembly operations, the former straight roller wheel bearings and separate oil seals are replaced by ball bearings and oil seals as complete assemblies.

Famesty, the sale shoft not leads were pressed into the sale housing preceding assembly of the cale shoft, which was passed through the oil seal, with the constant danger of danage to the oil seal lip by the sale shoft splines and subsequent seal failure in service. The new wheel bearing assembly allieniates this problem by incorporating the seal in the bearing assembly. This is made possible because boilf-type bearings require on accorately machined inner race and cannot use a surface of the sale shoft for the inner race as was possible with straight roller-type bearings. The bearing races are designed with extra width so that the oil seal can be pressed in the outer race and make sliding contact with the inner race.

Ade sheft retention is simplified with the new wheel bearings. The former smight relies bearings were not copable of headings and loods, and cale sheft retention was accomplished at the differential geers. Since bell-type bearings are copable of corrying end loods, the inner new, along with a retaining ring, is pressed on the cale sheft and the sheft is held in assembly by a retaining plate that its belled to the cale boaring and bears against the outer new.

The overall diameter of the wheel bearings is greater than it was previously through the addition of the inner race. Further, axle housing strength is greater with a 28.5 per cent increase in section modulus because, in keeping with the larger wheel and higher capacity differential bearings, the diameter is enlarged with no change in wall thickness.





### SPRINGS . . .

Longer and wider, more durable rear springs, new also in their mounting design, add substantially to the smooth ride and stability of the car.

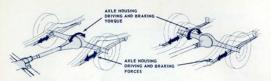
Dimensionally, the springs are \$8 inches long by 2 inches wide which is 9 inches longer and .25 inch wider than in 1954, Individual spring leaves are thicker in section and fewer leaves are used so that the assembled thickness is practically the same as before. Sedan and coupe springs are 4 leaf, while station wagon springs have 5 leaves. In 1954, these models had 7 and 8 leaves respectively.

All spring leaves have a full-length longitudinal groove on the under side to eliminate unnecessary weight. Since the under side of a spring leaf is always in compression, and the top side in tension, the compression properties of steel are such that far less steel is required on the under side to equal the tension capacity of the top side.

The top surface of the main leaf is had persond to increase resistance to fitines, since Morthias drive places outlineand leaving demends on the spring. No periodic lubrication is required for the springs since the eyes ore again mounted in rubbers and a strip of weak-inrepressed weaking, 35 inches long and 2 inches wide, is reveal to the top of such end of the intermediate leaves. The 12 inches wide, is reveal to the top of such end of the intermediate leaves. The intermediate leaves are such as the su

The new springs are mounted 3/4 inch farther apart and are located outboard instead of beneath the frame side members to increase chassis stability and permit a reduction in chassis height.

Compression type shockles at the rear of the springs replace the tension type to provide maximum road clearance at this point. Also, the shockles do not influence the normal spring rate, permitting ride control to be concentrated in the shock absorbers.



#### TORQUE TUBE DRIVE . . .

With the former target table drive rear sale housing throat was transmitted to the frame through the rees spirit, while the target with through the target with through the target table and properly to the and engine reer support. This required the engine reer support. This required the engine rear support to be sufficiently rigid as a their maximum and housing freque reactions would not defect the transmission of the engine rear support beyond certain limits. The necessary stiffness of the terque value drive components thus delivered drive line to the target with little qualitation of the target with little qualitation.

### HOTCHKISS DRIVE . . .

Campered with the tercue tube dive used previously, Henchkins dive provides increased drive line such ness, easier handling, and reduced weight, and pension ness, easier handling, and reduced weight, and pension the lower tillhowster. Using the new suppossion easier and particular distances and reaction support for the only structural attachment and reaction support for the ever and a filminates the weight of the tarque hale and closing the propeller sholt. Then, by the addition of a second universal joint on the forward and of the hydrojoint handler and the second surveys of the second universal joint on the forward and of the hydrojoint handler and the second surveys of the second universal joint on the forward and of the joint on hother distances to the second surveys of the second the

### BRAKES, WHEELS AND TIRES

BRAKES for 1955 are redesigned to provide better accessibility, greater passenger comfort, and reduced weight. These features are the result of a new more rigid, weight-saving method of mounting the front wheel cylinders and anchor pins, a new master cylinder in a more convenient location, and new pendant pedal and linkage.

At the wheels, the same eleven-inch drums, duoservo self-energizing shoes, and wheel cylinder

sizes are retained.

A new master cylinder is mounted on the engine side of the dash panel. This location makes possible the direct connection of the brake pedal arm to the master cylinder actuating push-rod and permits much easier servicing of the master cylinder hydraulic fluid reservoir.

The new master cylinder bore is 1 inch in diameter as compared to 7/8 inch in 1954. This reduces the hydraulic ratio slightly, but the mechanical ratio of the pedal arm is increased to maintain the overall braking ratio and ease of operation.

Parking brakes continue to operate the service brakes on the rear wheels mechanically. The "Thatolic control, however, is moved from the right handle control, however, is moved from the right militage the driver to have his right hand free to operate the other controls while operating the parking brake. A cable and two pulleys replace the previous pull rods and beliltrank in connecting the angine compariment space required for the parking brake linkage. The idler lever, which formerly attached to the underside of the engine rear support cross member, now attaches to a reinforcement on the underbody.

TUBELESS TIRES are introduced as regular equipment on the 1955 Chevrolet.

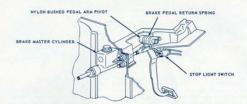
Featuring a greater safety factor, increased durability, and contributing to easier ride and handling, tubeless tires are the culmination of many years

research on the part of the tire manufacturers.
Essentially, the tubeless tire is quite similar to
a conventional tire casing except that it has a butyl
liner cured to the inside. A self-sealing, snap-in

valve core replaces the conventional valve stem. In exterior appearance the tires are exactly like a conventional tire, except that all brands used feature new, more silent tread designs and new sidewall styling. One brand incorporated the new tread and appearance on the conventional tires in mid-season of the 1954 model year.

WHEELS are subject to closer quality control in production but otherwise they require no special consideration for use with the new tubeless tires. Special attention is given to weld finish, and rim bead seat finish to insure that the wheel rim is airticht.

The wheels are of the same design as in 1954, except for the addition of four stamped lugs on the outside horizontal portion of the rim. These lugs are used in conjunction with the improved attachment of bright metal wheel disks.



#### SUSPENDED BRAKE PEDAL.

The new suspended brake pedal and linkage provides much easier accessibility to the master cylinder and stop light switch as well as protecting the linkage from road splash and permitting the passanger compartment to be more efficiently scaled. Nylon bushings at main points of wear eliminate the need for periodic labrication.

The stop light switch is again of the safe mechanical type. However, the switch is relocated from the under side of the toe pan to the brake pedal bracket inside the car where it is protected from road splash and is more accessible. The new switch is of the plunger type, spring loaded toward the on position, and held in the off position by the brake pedal arm when the brakes are released.

The channel section bracket from which the pedal is suspended also serves as the brace between the dash panel and instrument panel. Farmerly, two rods were used to brace this area.

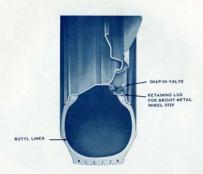


#### FRONT BRAKES . . .

An exclusive design feature that decreases unsprung weight is the new mounting of the wheel cylinder and anchor pin.

With the spherical joint suspension, the wheel spinide on spinide support become one piece. This permits the front brake wheel cylinder and anchor pin to be mounted directly to the spinide support, relieving the brake backing plate of any structural requirements. Thus, the wheel cylinder and anchor pin ore rigidly supported, and its it serves only as a protective cover, the backing plate is made from most hibber antesting.

Both the front and rear brake assemblies have nonadjustable anchor pins and are precision assembled as units to minimize further adjustment.



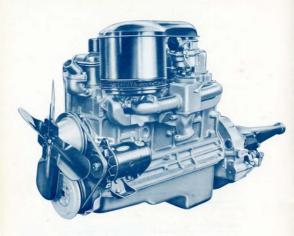
#### WHEELS AND TIRES . . .

The tubeless tires, used as standard and optional equipment, offer many advantages. Besides contributing to better handling, ride, and durability, tubeless tires have a higher safety factor and are comparatively easy to service.

Basically, the key to the efficiency of the tubeless tire lies in the fact that a layer of butyl synthetic rubber is cured or bonded directly to the inside of the casing. In this manner, the butyl rubber serves only to seal the casing in order to retain the air and is under no stress.

In the conventional tre and lines tabe conditionation, a section taken through on ununifolder assembly will show that the table fills only 75 per cant of the over one ununifolder assembly will show that the table fill the remaining present within the casing. Upon inflation, the tube is stretched to fill the remaining over within the casing. This means that upon purcture the table will tend to stretch away from the damage or, in an extreme case, rupture when punctured like a tay shallow.

In a tabeless tire, the air retaining layer of buryl rubber is under no stress and, therefore, it tends to provide a seal around a puncturing object as long as such an object is in the casing. Even when the puncturing object is removed, the rate of leaking is much slower than in a similar situation with a conventional tire and tube.



# REGULAR PRODUCTION ENGINE

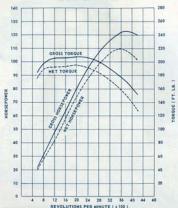
The regular production six cylinder engine retains the basic features introduced in 1954, plus a number of design changes which decrease overall dimensions for installation in the new chassis, and provide a quieter, more amosthly operating engine.

The test method for establishing the advertised power rating has been brought into line with competition, with the result that the maximum output ratings for the engine show an increase. Under the new procedure which liberalizes the test conditions for higher press engine performance rating, the production exhaust pipe no longer is used; instact a restriction due to the air cleaner is reduced; and restriction due to the air cleaner is reduced; and restriction due to the air cleaner is reduced, and the condition of the control of the control

123 at 3800 rpm, instead of 115 horsepower at 3700 rpm, as advertised in 1954. Likewise, maximum gross torque is raised to 207 foot-pounds at 2000 rpm, compared with 200 foot-pounds at 2000 rpm in the previous model.

A lower overall height, for clearance with the 1955 hood lime, is obtained with the repositioning of the water pump and fan and use of a side-mounted art cleaner. The oil pan is reshaped to clear the new steering linkage, with the front of the sump section moved farther to the rear, and the width of the sump increased. Oil capacity remains the same, An oil pan haffie is added to prevent oil rarging on quick steps. The full-pressure labric same, and oil pan haffie is added to prevent oil rarging on quick steps. The full-pressure labric are designed oil pump which has a new floating-type pick-up. Only the cleanest portion of the oil from the pan is circulated because the new pump

#### ENGINE PERFORMANCE

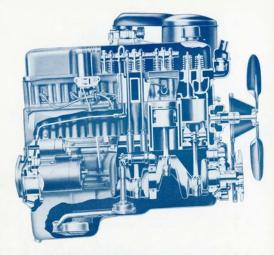


pick-up floats just below the surface of the oil. Main bearings are continued as changed during 1954 when the groove was eliminated from the lower halves. Similar to the bearing design used in diesel engines for many years, the new bearings have ample provision for lubrication and increased capacity for extended operating durability.

The valves and valve train are modified for quiet operation and improved durability. In mid-season 1954 a revision was made in the drilling of the rocker arms for better lubrication and the valve stem-to-guide clearance was reduced. This revision is carried over into 1955, and in addition, the XB exhaust valves are addipped.

A new oil filler cap with a wire mesh air intake strainer replaces the plain cap and serves as air air intake for the engine ventilation system. The four air intake louvers in the rocker cover are eliminated so that any oil vapors, which formerly passed through the louvers, condense in the wire mesh and drain into the engine. A new mounting system for the engine uses a dynamically balanced four point engine suspension, in place of the former three point suspension, for improved suppression of engine vibration. A pendant-type pedal is one of the features of the

new clutch and linkage system. The pedal is similar to the new brake pedal, and is mounted on the same support. Control of the clutch is improved with a newly designed compensating linkage for positive. vibration-free operation. This linkage permits free movement of the engine on its mounts without a reaction on the clutch pedal or the applying of fluctuating pressure on the clutch fork. To extend durability, the clutch pressure plate outside diameter is increased one-half inch to 9.5 inches making the total area 85.22 square inches, as compared with 71.86 square inches in the previous model. A 12-volt electrical system replacing the previous 6-volt system, supplies a higher ignition reserve for high speed operation, easier starting under adverse conditions, and greater generator efficiency.



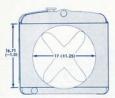
#### WATER PUMP AND OIL PUMP .

The water pump is redesigned to provide a larger impeller for increased pumping capacity and is repositioned for averall engine assembly compactness by recessing the impeller into the front of the cylinder block.

Larger sized pulleys on the crankshaft and fan drive are proportioned to reduce fan and water pump speed by one third, insuring longer impeller shaft bearing life and improved seal durability. The new speed ratio of pump to crankshaft is 0.95-to-1 compared with 1.40-to-1 in 1954.

The water connections to the radiator and engine have larger internal diameters, which improves the coolant flow, and assures adequate cooling and better temperature recolation at low engine speed.

A new inlet is provided for the labricating all pump. This new floating-type pickup floats; just below the surface of the all in the nump, minimizing the pass skikling of drawing floating or submerged precipitents, into the all distributions yetystem. A new beliffe, welded into the all pan, neckors the surging of all on quick stops, and thereby minimizes the churning of all into foom by the crankshaft counterweights.

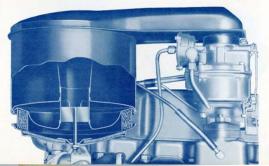


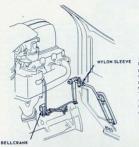
# RADIATOR AND FAN . . .

A man lock reduction in the height of the reduter core is made because of the lower hood line. A number of other changes which increase the effectiveness of the coaling system include the use of a larger diameter for, which is now I7 inches instead of 15.3/4 inches. While the fame paged has been reduced almost one-hird to minimize noise, on increased pitch of the fan blodes provides ompt of increased pitch of the fan blodes provides only of increased pitch of the fan blodes provides continued to the coaling and the provides of the reduced of the provides of the reduced to the provides of the reduced to the reduc

# AIR CLEANER AND SILENCER . . .

An oil-wetted oir cleaner and silencer, mounted beside instead of an top of the carbueter, provides the necessary clearance under the new hood contour. A revision in the corbueter main metering jet, which maintains the intake misture balance, compensates for the slight breaking restriction associated with the side-mounted true of air cleaner.





# ACCELERATOR LINKAGE . . .

New cobuster throttle linkage has lower friction, better protection against road splash, and minimizes the transmission of vibration from the angine to the accelerator pedal. A splan sleeve for the coatral rad passage through the dash panel provides lubrication free east of operation. The bearing seet fur the rod end in the pedal is also of squeek-free splan. A sciking joint links the central rd to the engine-mounted bellcrank to reduce the tronsfer of vibration.



# FUEL PUMP . . .

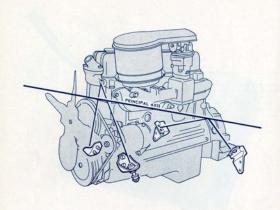
The completely new feel pump provides improved operation and simplified maintenance. The glass board and the filter screen are removed, eliminating the excessify appeared to the periodic disassembly and cleaning. Celled a pulsate to describe its action, an all metal air dome located above the disphagen is a feature of the 1955 feel pump design. During the pumping strake, the air in this dome is compressed by the incoming fuel, and then expands when the faul is released to the corbusters, so that a more constant state delivery is supplied to the empine. The pump varies are increased to one inch diameter from three-quarters of an inch for better protection against vapor lock this change further assures a more constant supply of fuel under others therepreture conditions.



# FUEL TANK . . .

The fuel filter screen, farmely in the fuel pump, is now located on the riser pipe in the fuel track where space permits the installistion of a large capocity screen. The new large area screen is less sensitive to clagging, and does not require frequent cleaning to remove water or solid contaminant deposited by the fuel. The mesh is sufficiently fine to not only prevent the passage of water, but to insure that the prevention of the properties that can pass through will be too small to interfere with valve operation in the fuel pump, or to unsent the carburster float needle valve. The fuel filter screen may be readily removed for cleaning.

Construction of the fuel teak is the same as in previous models, consisting of two pans seem welded together, and supported by two streps attached to the underbady. For facility in assembly, the filler neck is now a separate unit, An "O" ring neck seal is used at the point of its attachment to the fuel tank. The fuel level gauge remains unchanged.



#### ENGINE MOUNTING SYSTEM.

A dynamically balanced four-point engine suspension system which better isolates power plant movements from the chassis and body replaces the three point, high side mount system. Two shear-type rear mounts are installed on the lower sides of the clotch housing, replacing the single compression-type mount formerly lacated near the rear of the transmission.

The four mountings are located and inclined so that the roll axis derived results in relatively minor reactions to frame and body from engine torque and firing frequency.

The front mounts are struct type, and attack to brackets on each side of the cylinder black at the front lower corners, and to prependicular seats on the frone front cross member. The intersection of straight lines projected through the front mounts is in the upper part of the engine. The front mounting locations permit proper freedom of engine movement through its principal axis. The rear mounts are leasted between the lower near degree of the clarks housing and shart beachest in combination with the front mounting threating, housing one supersistent that in combination with the front mounting threating, homesloss engine supposals on in the classis results.

#### ENGINE FRONT MOUNTS . . .

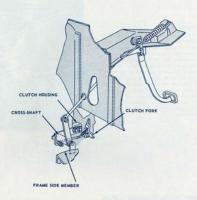
Two struttyge from mounts are used. Each consists of four circular rubber biscuits on o metal spacing which is secured to a bracket on the from lower course of the cylinder black, and prependicular to a used on the frame front cross member. One of the rubber biscuits is mounted over the engine bracket and another under the cross member of the rubber biscuit is mounted on top of the rubber of the rubber biscuit is mounted on the other of the rubber biscuit is mounted on the other under the cross member and the under the decision of the control of the cross member, and unwerful document provides the lower rubber biscuits. This ormagement provides the lower rubber biscuits. This ormagement provides the lower rubber in certain the film control of engine compression out bound movements in vertical mode, and allows relatively free travialism arowments.





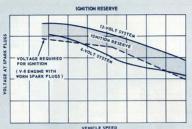
### ENGINE REAR MOUNTS . .

The engine rear mounts attach between the lower readeps of the clutch housing and the short engine mounting brackets welfeld on the frame side numbers. Each mount consists of two interferoing nearl brackets separated by integral bundled rubber of required thickness. When intelled, the robber cuts in short during engine rell, engine near the property of the control of the concenter mounting perviously employed.



#### CLUTCH LINKAGE . . .

Compensating-type linkage connects the new pendant-type clutch pedal to the clutch release fork to permit free engine movement without transmitting vibration back to the driver's foot. This feature is provided by a bellcrank with two lever arms, mounted on a cross-shaft. One end of the cross-shaft is fastened to the clutch housing, and the other end attaches to the frame side member, the lever arms being located near the pivot ends of this shaft. The link rad from the clutch foot pedal attaches at the frame end of the bellcrank, and the rod to the clutch fork connects to the lever arm at the engine end. Consequently, the link which operates the clutch fork moves with the engine, but the link to the clutch pedal is held steady by the frame. The link length from the clutch pedal mechanism to the bellcrank lever arm thus remains constant with engine movement and vibration is not telegraphed back to the pedal. At the same time, engine movement does not cause a fluctuating pressure on the clutch pressure plate which insures friction plate durability by avaiding clutch slippage. This system allows adequate adjustment of clutch linkage to assure complete release of the clutch, and to maintain full pressure contact when the clutch is applied. Operation of the clutch is therefore more positive and proper adjustment is more easily established and maintained.



AEMICTE PLEE

# ELECTRICAL SYSTEM

Ignition dependability and long service life is provided by a 12-voit electrical system which replaces the 6-voit system. Better starting motor operation and more afficient generator performance also are assured. The higher ignition voitage required for assured. The higher ignition voitage required for particularly at higher engine speeds, is provided with adequate reserve to allow for considerable spark plug point eventom which is a normal development with accumulated mileage. For improved crossed in this parch plug deteriodes also are increased in the second control of the control o

More efficient generator output is obtained with the 12-voil system to better maintain batterycharge. This increased generator efficiency is desirable for maintaining an adequate battery charge during slow speed driving in heavy traffic or during cold weather when allopery streets greatly retard traffic movement, and the headlights, accessory heater and radio are being used.

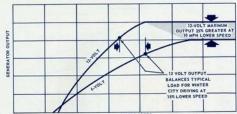
Starting ease is improved particularly in cold weather when the starter impores a high current draw to crank the engine. Not only does the 12-volt starter turn the engine faster under such adverse conditions, but the system is designed to supply adequate voltage to the spark plugs to insure firing at the same time. The greater ignition re-

Hability during starting is provided by use of an outside resistor which supplies part of the primary resistance usually contained entirely in the coll. The external resistor is by-passed when the starter is operated. Thus, even though battery voltage is exeverely reduced by the drain to the starter, primary ignition current remains nearly normal and close of voltage at the spark plugs is minimized.

Other new features in the electrical system inclede a dual circuit breaker in the lighting system. This isolates the headlight circuit from the other circuits for greater safety so if a short develops in one circuit the other will continue to function.

An additional feature for greater driver convenience is the addition of the dome light switch to the main lighting switch. The dome light is operated by rotating the main light switch to the end of its travel. Control of the instrument panel lights by the main light switch is retained.

Chassis wiring is of lighter gauge for proper voltage distribution to all lighting equipment for optimum hamp life and light output. To facilitate assembly and servicing, plags in type connections are used extensively in the system to attach wiring to the witches, fuel gauge and headlight junction blocks. Detachable light sockets also simplify removal and replacement of instrument panel bubbs.

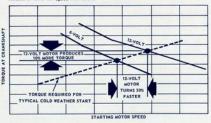


VEHICLE SPEED

# GENERATOR PERFORMANCE . .

A marked improvement in generator performance is realized with the adoption of the 12-volt system and an increase in the generator-to-car speed ratio to 105.8-to-1 from 94.3-to-1. The illustration shows the new generator compared with the former 6-volt unit as installed in a car with the requier three-speed transmission.

Typical loods representative of winter time city driving and consisting of ignition, lights, radio and heater are balanced by the 12-volt generator at 15 per cent lower whiche speed than with the 6-volt system. Over 70 per cent greater output at 20 miles per hour is further evidence of the superiority of the new generator. The greater maximum output also is reached at lower or used thin he before.



STARTING MOTOR PERFORMANCE . . .

Faster cranking with higher torque is provided in the change from a 6-volt to a 12-volt starting motor. The performance shown applies to the units used in six cylinder models. The increased cranking speed results not only from the 12-volt motor but also from an increase in gear reduction ratio to 18.6-to-1 from 15.4-to-1.



# THREE-SPEED TRANSMISSION

Increased torque transmitting capacity, extended durability and greater freedom from ratte result from the design changes incorporated into the 1955 standard transmission. Among the many refinements are a larger diameter mainshaft, more incensive surface treatment of the gears, modification of the sliding spline to attain a better fit, and wider spread mounting centers for more rigid attachment to the clatch housing. Still other changes were made that the contract of the co

The most obvious of all the many improvements is the new look given to the steering column by the concentric gearshift control. This design not only improves interior appearance, but eliminates the principal sources of selector lever rattle.

The most important change in the 1955 transmission is the mainshaft. All the heavily loaded sections are larger, thereby increasing the load transmiting capacity of the shaft. As a result of this change, all the gears mounted on the mainshaft have now dimensions. The mainshaft diameter at the clutch spline is larger and so too are the internal and external diameters of the second and third-and external diameters of the second and third-and reverse gears. Since the external dimensions of the first and reverse gears, since the external dimensions of the first and reverse gears are unchanged, the

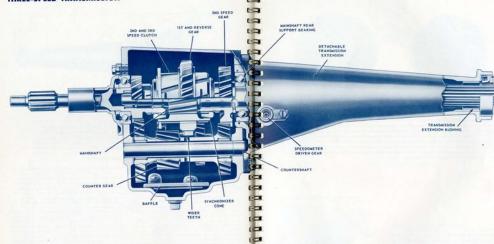
increase in the internal diameter reduces the thickness of the gear. Offsetting this change, however, is an increase in the width of the gear which reduces the stress imposed on the individual gear testh. A further advantage of widening the silding gear is the increase in contact with the clutch surgear is the increase in contact with the clutch surment with the countergear and minimize recking and the possibility of gear ratits.

Another change is the adaption of a "skip tooth" design as a means of coupling the first and reverse gear to the second and third speed clutch. (See illustration on page 120). This design is more easily finished within close limits, making it possible to attain better sliding fits.

Incidental to the increase in diameter of the second and third speed clutch and the clutch diameter of the second speed gear is an increase in the diameter of the synchronizer cones. The greater friction area of the cones increases the load carrying chancity and the durability of these elements.

The durability and load transmitting capacity of the gears themselves has been increased by an improvement in the tooth profile and by finer methods of surface treatment. Instead of being chamfered at an angle, the ends of the gear teeth are rounded. This modification reduces the loading at the ends

# THREE-SPEED TRANSMISSION



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of the teeth and minimizes the possibility of teeth chipping. After machining, all the gears are carburised for greater wear resistance and shot-peened for increased resistance to fatigue.

An extra precaution against damage of the gears and bearings is the sheet metal baffle bolted to the bottom of the transmission case. As the lubricant is circulated under the collector, it traps particles which could be deposited in the bearings or between the gear teeth. The mainshaft rear support bearing, formerly mounted in the rear of the transmission case, is now located in the front of the transmission extension. This bearing, which is larger than that used previously, has greater load carrying capacity and increased durability.

The mainshaft gains additional support at the extreme end of the transmission housing extension which ends in a bushing in which the universal joint voke slides due to the action of the Hotchkiss drive. Since the spline clearance between the universal yoke and the mainshaft is close and the front end of the yoke is machined to fit the bushing, the extension bushing acts as an outboard bearing for the mainshaft, providing improved alignment and support against deflection.

The design of the new speedometer gear is greatly simplified by modding both the gear and its shaft into one piece of myloon. Since myloon has excellent bearing qualities, no lubrication is necessary and wear is minimized. The shaft rotates in a steel fitting which is held in the transmission by a re-

tainer and sealed by an "O" ring.

The flat on the end of the countershaft now contacts a rib on the front of the extension housing to prevent the shaft from rotating and calarging the

holes in the transmission housing. Reversing the countershaft eliminates the shaft locking hole in the clutch housing and thereby increases its structural rigidity.

1955 1954

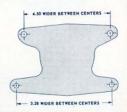




#### SKIP TOOTH SPLINE .

The use of a conventional spline as a method of coupling the first and reverse gear to the second and third speed clutch has been abandoned in favor of a "skip tooth" design. In this design every other spline valley is eliminated from the clutch and the moting tooth is partially machined away. Enough of the tooth remains, however, to provide sufficient bearing area against the ground surface of the clutch. This design is more easily finished within close limits making it possible to attain better sliding fits.

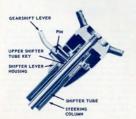
WIDER MOUNTING CENTERS . . . The averall rigidity of the engine and transmission combingtion is improved by increasing the distance between the transmission mounting holes by as much as 4.5 inches. Nearly doubling the distance between the mounting centers, this change reduces the deflection peaks at the output end of the transmission mainshaft and the vibration loading on the engine mounts. The result is a reduction in frame and body shake and smoother, quieter driving.





most prominent advantage of the new concentric gearshift control. This control of completely new design, is enclosed within the jacket. thereby eliminating the exposed control shaft of the previous model. As well as enhancing the interior appearance, the new design has the important advantage of appreciably less tendency to vibrate or rattle.

This improvement is due in part to the new method of mounting the steering column. The upper end of the jacket is held at the instrument panel as before, but the lower end, formerly joined to the steering aear housing, is held instead by a clamp on the engine side of the dash panel where it ends. This mounting makes the jacket a part of the body structure and divorces it from any road vibrations which reach the steering gear assembly.



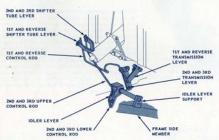
GEARSHIFT CONTROL UPPER END . . .

The shifter control itself is simple and compact. The upper and lower parts are joined by a shifter tube which fits inside of the steering column. The upper end of this tube slides on the inner sleeve of the shifter lever housing and is turned by a key which fits the slot in the housing. The ball on the inner end of the shifter lever, which is pinned to the housing, fits in a hole which extends through the key into the tube itself. Thus, an up and down movement of the lever as it rotates on the pin causes a corresponding movement of the tube. Axial movement, as in shifting from second to third gear, causes the lever, the housing, and the tube to rotate as a unit.



### GEARSHIFT CONTROL LOWER END .

The lower end of the spring-leaded tube also has a key, Manipulation of the shifter lever causes the key to engage the keyway in either of the two shifter tube levers and to twn it to select the desired gear ratio. The levers and the slatted weaker, which acts as a gating device, are held on the tube by a locking ring-which is easily adjusted to establish the necessary clearance.



# GEARSHIFT CONTROL LINKAGE . . .

Vibration of the shifter mechanism while in third genwhere it is the mean soticable, is minimized by on articulated linkage. This linkage, joining the second and third shifter tube lever to the transmission levels composed of an upper and lower central red and an idler lever whose spirited is secord to the frame. Although lever whose spirited is secord to the frame. Although you are second to the second second and the second second gree of pastitive shifting action as the conventional raduated in the first and reverse gene linkage.

The most important element of the articulated linkage is the lower control rod which is subject to two separate types of movement. In the first of these, motion applied to the idler lever during a shift from second or third gear is transferred to the transmission lever by a backward or forward movement of the lower control red since the

and travels in a path nearly parallel to its axis. Thus, positive shifting actions results. The other novement to which the red is subjected in the up and down mation of the transmission linear course by the oscillations of the engine and treasmission. Since this movement is appraisable to material perspecticular to the exist of the control red, however, the red merely pivots about the idler lever. But slight entire their prossered to the idler lever. That is mount of movement is further disnistable of the spring loaded plates where the control red are entertained best loaded plates where the control red are entertained best which can be relayed to the shifter mechanism. Another improvement for 1955 is the use of robber bushings bath the shifter tube and the transmission levers to dompon noise.

# **EXTRA-COST EQUIPMENT**

V-8 ENGINE
HIGH PERFORMANCE PACKAGE
OPTIONAL 6-CYLINDER ENGINE
POWERGLIDE TRANSMISSION
OVERDRIVE TRANSMISSION
POWER STEERING
POWER BRAKES
AIR CONDITIONING
OTHER EXTRA-COST EQUIPMENT



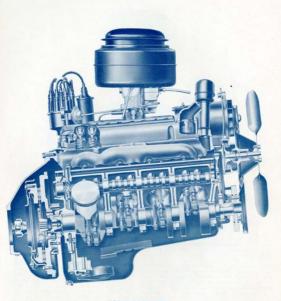
# V-8 ENGINE

A completely new overhead valve V-8 engine is available as optional equipment with the regular production three speed, overdrive, or the Powerglide automatic transmissions. This new engine, the result of comprehensive research and development, features high overall efficiency, structural compactness, and low weight.

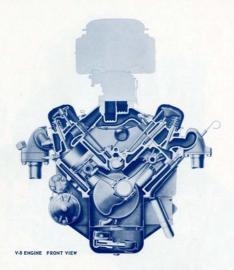
The bore is 3.75 inches, with a 3.0 stroke, and a 265 cubic inch displacement. The stroke-to-bore ratio of 0.8-to-1 is among the best attainments in over-square design of the automotive engines currently produced. Short stroke means less piston twelve per mile of volticle travel, lower reciprocating loads for smoother operation, and materially bores. Cross horsepowers is 16.2 at 4400 rpm, and gross torque 257 foot pounds at 2200 rpm, The compression ratio is 5.0-to-10.

The compactness of the new engine results in high structural rigidity and allows ample installation clearance within the engine compartment for easy service accessibility. The low weight of the assembly contributes to steering ease and long front title life. The engine mounting system is of the aams basic 4-point, dynamically balanced type as frequent power impulses of the eight cylinders, the modern balancing technique employed results in extremely smooth operation.

New technological and processing developments have been adopted to balance the engine. The crankshaft is partially balanced on a newly developed machine which has electronically controlled indicators. Final balance is achieved after the engine is assembled. Before the oil pan is installed, the which monors the engine. This machine indicates any out of balance of the complete engine, stops the rotation at the indicated out of balance, and critical the control of the c



V-8 ENGINE SIDE VIEW



the amount required. Through this new equipment, not only the crankshaft, but all of the moving parts of the engine and clutch thus are balanced.

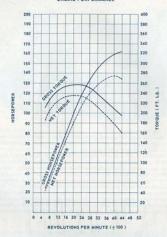
Optimum field economy and high power per cubic inch is assured by the high compression ratio of 8.0-to-1, and by the highly efficient wedge-type combustion combustion of the first mixture, and control of the combustion of the first mixture, and office of the combustion of the first mixture, and office of the combustion of the first mixture, and office of the combustion of the first mixture, and office of the combustion of the first mixture is used, and the convenience of an automatic choke is included. The feel pump discontinuous of the new pulsator type with an all-metal air feel pump discontinuous control in laceated on the lower front right hand side of the engine where it is not welpted to the heat of the engine where it is not welpted to the heat of

the engine, which minimizes the possibility of the vaporizing of the fuel resulting in vapor lock.

The 3.75 inch cylinder bore provides space for the large overhead valves which open into short, direct inlet and exhaust passages for free breathing. The intube manifold earning forms the cover for the tapper chamber, and not only does it contain the intube passages for the fund institute and an exhaust cross-over for the cuburedor heat river, but also considerable and the content of the content outer to maintain thousing and the constant outer to the radiator.

Durability and simplicity of periodic maintenance are featured in the unique low-weight valve train in which the valve rocker arms are individually

#### ENGINE PERFORMANCE



mounted. Low inertia of the system assures high speed efficiency. For durability, the exhaust valves are made from extra alloy steel and the faces are aluminum dipped.

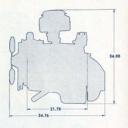
The aluminum autothermic-type pistons are of a slipper skirt design for clearance with the crankshalt counterweights. Offset piston pins, pressed into the short, rigid connecting rods, assure quiet engine operation. Precision replaceable bearings are used for the connecting rods as well as for the

five main bearings, the lower halves of which are of the grooveless type for durability.

The low heat rejection characteristics of the engine design permit a relatively low volume cooling system for low weight and small anti-freeze requirements. In addition, a low fan and water pump speed is adequate for cooling and insures bearing and seal durability in the pump. The low speed fan operates quietly at all vehicle speeds. A 12-volt electrical system supplies a high ignition reserve, reliable high speed operation, casy starting under adverse conditions and high generator efficiency. The distributor with its integral gear is located at the rear of the engine. The vacuum spark control unit is integral with the distributor spark control unit is integral with the distributor manifold. The high resistance ignition cables minimize electrical loss and redation of radio frequency interference. The generator is mounted on a flange on the exhaust manifold for easy access.

When used with the Powerglide transmission, the engine has hydraulic valve lifters and the vehicle uses the economy 3,55-to-1 rear axle ratio. Mechanical valve lifters and a 10-inch clutch are used with the three-speed transmission, which takes a rear axle ratio of 3,7-to-1, and with the overdrive transmission, which takes a high performance rear axle with a 4,11-to-1 ratio.





# COMPACT ENGINE SIZE . . .

The new Chevrolet engine reflects the skillful basic design in which small size and economy of weight was a paramount goal. It is the smallest, lightest, commercial V-8 power package for its displacement in the industry today.

Within a cylinder block length of less than 22 inches, a 225 cubic inch displacement is provided. In spite of the large 3.75 inch have, the short engine length is stratised throughly modern design in which each section of metal, coalout passage, and hearing is effectively utilized. Likevies, the engine is of low height since it is designed amount the salvan 3.0 inch strake and has a unitized intake manifeld and repart chamber cover. The compact stracture is not early few in weight but is exceptionally right.

Over-square design, as exemplified in this engine by the 0.8-to-1 strake-to-bare ratio, is well suited for use in the inherently short V-type engine because a large bare can be accommodated within a relatively short practical overall engine length. Direct advantages of over-square design are low friction and minimum were due to the short piston travel.





### CYLINDER BLOCK . . .

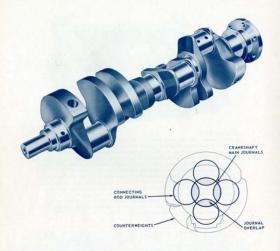
The two cylinder banks are joined together at the frost and rear of the cylinder black by full depth interpol panels. The ree face of the black is well blended into the casting structure across the full width, farming a very rigid lower support for the clutch housing. All clutch housing bolts are attached at the caners of the black is such locations that balt bosses from the clutch housings that can be considered as the caners of the black is such locations that balt bosses from the clutch housings to the canecase or in solid major structural sections of the case to minimize deflections and treats concentrations.

The three intermediate builkeeds also tie into the cylinder books, and when combined with the front and rear panels, previde the crankshaft and cambaft with five bearing supports. The compact, stiff block structure, together with the close tie into the clatch housing, results in power plant rigidity that represents modern design in an engine structure. The deep block construction with its greater weight, used in some former designs, is no longer necessary, in the new design the lower extremity of the block is only .12 inch below the controllers of the mole hearings.



# MAIN BEARINGS . . .

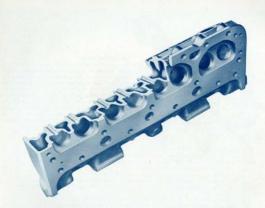
The precision replaceable main bearings feature steel backed intered copper-nickel metrix with a thin lead fully overley. This linking material has high support strength and excellent bearing characteristics. The lower bearing shell is desipsed without on all grows, which more than doubles the effective load supporting width, provides an unbacken oil film over the eatire length of the bearing and increases the bearing load carrying capacity proportions that you be read as compared with the growed type. Anale lubircation is supplied through the consistent oil holes to the cannow that of the main bearings. Creaksheft thrust is taken by the flanged rear bearing.



### CRANKSHAFT . . .

slipper-skirted pistons at the bottom of the short stroke. A harmonic balancer is provided to assure smooth engine aperation.

Full pressure labrication is supplied to each connecting rob having through drilled all passage in the crankshaft from the adjacent main hearing. The crankshaft all holder at the connecting rod are located as that labrication is supplied to the bearing approximately 60 degrees whend of the paint of maximum load. Not only does this position of the all hole provide maximum penetration of the labrication of the



# CYLINDER HEADS . . .

The cylinder heads for both banks are interchanged by and incorporate a wedge-type combustion chamber and valves are in line at a 22 degree angle to the bare axis, thus providing a quench ere for maximum detanation. It also be a superior of the provider and the second teal. The cylinder bores permit spacing of large valves in the head without cramping under passages and the valve seats, which assures adequate coaling of the seats.

Large inlet ports permit efficient, law velocity fuel mixture flow at high engine speeds. The exhaust passages point upwards and out, and because of their short length a minimum exhaust port wall area is exposed to the water jacket. This is a major factor in the low heat rejection characteristics of the engine.

An exhaust cross-over passage is included in the center of the head and is tied to only an exhaust passage instead of the conventional method of using two passages. Coalest outlets are located at each end on the intake manifold face, eliminating any machine operation or core prints on the front ond rear faces of the head. When installed, however, the rear coalest outlet is blanked off by the intake manifold, and the coalest

flow is directed to the open outlet at the front of the bead. The top surface of the head is not parallel to the bottom face in order to locate the rocker cover as far inbound toward the centerline of the engine as possible and thus previde a narrow overall engine width. Eight reomed stud holes in each head retain the individual rocker arm supports of the new valve machanism.

Each cylinder head is secured to the black with seventeen bolts, with each cylinder bare surrounded with a five balt pattern, thus assuring trouble-free gasket seal,

belt pattern, thus easuring trouble-free gasket seal. Full length, shellow water passeps, cored into the casting, provide arch-shape reinforcements with wells of relatively thin section for high structured strength with few weight. The striftness of the head, copyled with of the string of the striftness of the head of the distantion and life to striftness of the head of the pasket. Mater passage hales in the face of the head align with similar hales on the resp surface of the copylinder banks for full circuit coaling between the head and the black. Integral beases surrounding each valve farm valve guides with excellent heat transfer to the coaling solution for freedom from valve burning.



# CONNECTING RODS . . .

The connection and is extremely short requiring only of small area column section and is therefore very light in weight. The copy is forged separately and is retained by plain nots, special facking devices being unnecessary. A small slot is milled in the cop of the split line for lobication of the opposite cylinder bore. The piston pis retained by pressing, which not only eliminates the need for altiting the upper section and the saw of a pinch light properties of the piston pinch to the conduction of the opposite cylinder bore. The piston pinch to be considered to the root, letting the upper section and the saw of a pinch light properties of the pinch pinch

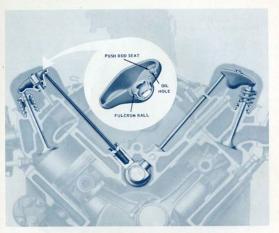
#### PISTONS . .

The aluminum piston is a steel insert slipper skirt type with three rings above the piston pin. The pin is offset .078 inch to insure quiet operation. The slipper skirt design provides clearance for the cranksheft counterweights.

Compression rings are thick wall alloy iron, 5/64 inch wide, toper faced and with an inside bevel. The top ring has a flash plating of chrone to facilitate break-in. The oil ring is the chrone plated steel rail type which provides maximum oil control and dushility.

Through the use of the oscillating piston pin, which is pressed in the connecting red, the distance between the piston pin boxes is held at a minimum for more efficient set of material by shortening the span or been length between the freat and rear of the 3-ris piston stretcure. Lubrication of the piston pin is supplied through a single hale in the top of each pin boxs, dilled upword at an osqle. Oil from inside the piston is twu wiped between the pin and boxs diving the most beavily more discountered to the piston is thus wiped between the pin and boxs diving the most beavily boxed parties of the cycle.





#### VALVE MECHANISM . . .

The volve operating mechanism is of completely new design, featuring low inertie for high speed efficiency. Engines used with three speed transmissions have mechanical valve lifters and remerkably low valve landchange throughout the engine operating range. Hydraulic type valve lifters are furnished in engines used with the outwantic transmission.

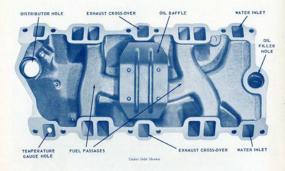
A cast alloy iron camshoft with excellent wear characteristics and rigidly supported by five bearings is driven by a silent chain from the crankshoft. No thrust bearing is used since the thrust is rearward and carried against the face of the crankcase at the front bearing.

Light in weight for reduced inertia, the push rads are ofhollow steel tubing; gathered ends have small openings for the possage of all from the tappet assemblies to the valve racker arms for lubrication of the overhead valve mechanism.

The individually mounted valve rocker arms are of

pressed steel, and have a spherical surface fulcrum with an avail shaped hale punched into the bottom. Steds, hendeded a speep end, ore pressed into the cylinder heads in a straight line. Each racker on it assembled worther velve sheen out goats down the side sheen out goats down the side sheen out goats of the straight line. Each racker on the straight line is a straight line of the straight line in the straight line is straight line in the straight line is straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line is straight line in the straight line in the straight line in the straight line in the straight line is straight line in the straight line in the straight line in the straight line in the straight line is straight line in the straight line in the

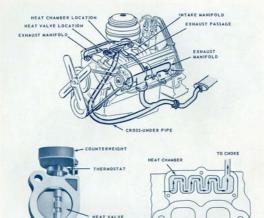
All valves have oil shields under the valve spring caps to keep excess oil away from the valve stems. The exhoust valves are aluminum dipped on the seets to eliminate valve burning. The valve stem guides are integral with the cylinder head for efficient temperature control of the valves.



#### INTAKE MANIFOLD . . .

The intake manifold passages from the carbureter to the cylinder heads are designed to insure good distribution of feel mixture to each cylinder. All passages are of nearly equal length. Also, the letted breaches turn adeutyly from the longitudinal passages to maintain high mixture velocity at the turns and thereby minimize favoring or starving certain cylinders.

The intake monifold is designed to serve more than the usual primary function of carrying the fuel-in instante to the cylinders. It also contains the cross-user for exhaust hadto the conhorator, includes the thermoster housing and coolent outlet to the radiator, and
forms a classive for the """ between the cylinder banks. It thereby eliminates passage
forms a classive intends that the undestrable centing of the mixture from such as an if they
are intended to the contained of the undestrable centing of the mixture from
the contained to the contained of the undestrable
eliminates the need for a separative volve tapped channel cover.



#### EXHAUST SYSTEM. . .

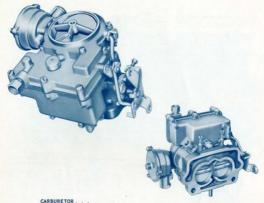
The angine scheart system consists of an achieuxt manifuld for each bank of cylinders and an extense case, and for each bank of cylinders and an extense case, under pipe joining the manifulds for exhaust through a single exchaust pipe, moffler and total pipes. The manifulds are also connected by an exhaust pursues through the center of the intaken manifald. This pursues present heat under the carboverer riser for feat warm-up, maximum nower context, and continue seconds.

The external exhaust pipe crosses below the front of the engine. In this location it is exposed to the air stream from the fan and air movement under the vehicle to prevent excessive underhood temperatures.

A heat chamber or stove is cast into the right head exhoust manifold for the purpose of supplying heat to the carbureter automatic chale housing quickly after engine starting. The heat stove cover consists of an outer and inner cover to provide a doad oir space between them for insulation. A tube leads from the heat chamber to the chale housing.

RIGHT HAND EXHAUST MANIFOLD

An exhaust manifold heat valve, thermostatically controlled, coutes exhaust goses through the intake manifold cross-over passage to supply heat to the manifold risers on cold starts. The valve counterweight also acts as a shield for the thermostat.



A two barrel downdraft carburetor with an automatic chake is furnished on the eight cylinder engine. While not interchangeable, the carburetors used on conventional and automatic transmission models are basically the same.

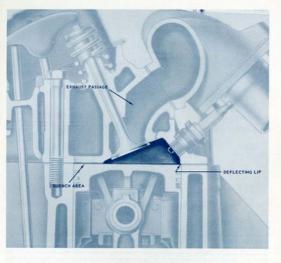
The carburetor design is the affect bowl type, with the bowl toward the front, and with the fuel supply jets and passages submerged enough below the liquid level to provide proper engine operation under all driving conditions. A major portion of the calibrated metering parts is contained in the venturi clusters located in the float bowl and readily accessible for servicing. The idle tubes, idle metering jets, main discharge nazzles, and gump discharge jets are all contained in the cluster, while the fixed-type main meterina jets are screwed into the bowl costing. The power metering jets are pressed into the bowl.

A vacuum operated power system is used. This power system makes a proper power mixture readily available upon a lowering in manifold vacuum, regardless of the degree of throttle opening. It is not necessary, therefore, to open the throttle completely to enrich

the mixture sufficiently for power operation.

A vented-type accelerating pump plunger is used for the additional fuel required on acceleration. By means of a vent valve ball within the plunger head itself, fuel vapors are allowed to pass from the pump well to the float bowl under constant throttle conditions. This insures that the pump well will be primed with fuel at all times and readily available for rapid acceleration.

The throttle body of the carburetor is provided with a "U" shaped cared channel which extends the length of the mounting face. Two drilled holes into the intake manifold exhaust cross-over register with the ends of the cored channel, and provide heat to prevent carburetor icing during warm-up.

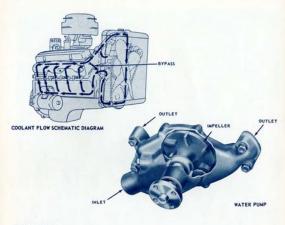


#### COMBUSTION CHAMBER . . .

The wedge-type combustion chamber has a large quench area for control of detanation. This filed quench area also acts as a squish surface when the intake mixture is compressed by the piston. As the piston rises, the mixture is forced away from the squish area, imparting turbulence to the fuel-air mixture and assuring fast and complete combustion.

The cylinder head design places the spark plug in the hettest area of the combustion pocket. When ignition occurs, the flame spreads evenly and rapidly throughout the combustion chamber for a smooth pressure rise and freedom from detonation.

A partion of the cylinder head forms a lip which overhangs the cylinder bare and protects the spork plugs from all which may be scraped off the cylinder walls by the piston rings, thus insuring reliable ignition.



#### COOLING SYSTEM . . .

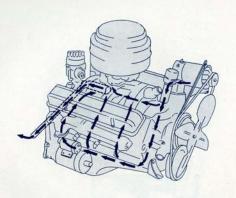
The engine features high thermal efficiency and the resulting low heat rejection requires a cooling system of relatively small volume for an eight cylinder engine.

Complete jacketing is provided for the short cylinder borrels. The cooling solution on only extends for the full length of the cylinders, but also completely surrounds each borrel. Also featured is the full length cooling of the short achoust possages, although only a conportively small area of the school possages is exposed to the cooling of the cooling of the cooling of the interest of the cooling of the could that theread efficiency of the enables is high.

Coolout is drawn from the relatives into the low speed, high expectly water pump. It is then discharged from the pump into a plenum chamber and distributed to each bank of the cylinder block. The coolour is circulated that the cylinder block, up into the cylinder heeds, and from a passage at the frent of each cylinder heed it that only into passages in the intake manifold, from where it is discharged beck into the relative. The thermostar is housed in the intake manifold at the point of discharge. The water pump is bolted to the frent of the cylinder block. The pump housing costing includes a plenum or equalizing chamber. Water drawn into the pump is discharged into the plenum chamber, which has two water coulets, one into each boak of the cylinder block. The

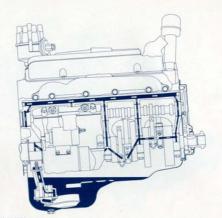
water flow is equally divided between the two banks. The pump rotor is 3-1/2 inches in diameter, with blades which are curved at the entrance and then straighten to a 90 degree exit angle. There are no back blades to the rotor. The pump pulley is large in diameter, and is driven at 95 per cent of crankshoft speed to insure durability of the pump bearing and quiet operation of the Contract and the pump contract and the pump contract and the pump bearing and quiet operation of the flow.

For coalout circulation on cold starts before the thermatta apens, a passage is provided in the frost of the cylinder block, and connects to the right hand cylinder hand coalout chamber. Water from the left hand cylinder hand also circulates through the passage with the coalout cross-over in the intoke manifold. The cylinder block passage outlet is at the intoke of the water supplies.



#### VENTILATION SYSTEM . . .

The crankcase vanifation system is a froad dreft tube type. Air enters the engine through an opening in the all filler free go and then trevels directly down into the crankcase through the oil filler tube and the timing speer chamber. From the crankcase through the contract of the crankcase of the crankcase of the topse deck. It leads to an outer treatliest two the clinic is vanished to atmosphere under the onigne. The air from the tapper deck it officehorged through this vanished two. The oir stream under the noving weblief creates a low pressure area under the outer ventilater tube, with the result that the cir is drawn out of the engine, corrying with it engages vapors and dispute vapors and found of the engine, corrying with it engages vapors and found.



LUBRICATION SYSTEM . . .

The full-pressure lubrication system is wholly contained within the cylinder block and head castings, there being no external pipes in the entire system.

The gear-type all pump, which is attached to the reamin bearing cop, is driven through a shaft from the distributor. A recliculating by-pass type pressure regulator is integral with the oil pump cover. Oil pick-up in the samp is through a floating strainer hinging on the side of the oil pump.

Oil from the pump is fed directly to the main oil gallery which is located above the camshaft and drilled the full length of the cylinder block.

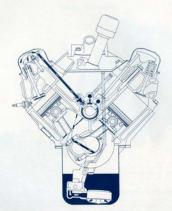
Each of the bases previded in the cylinder block for combaft bearing seath has a machined annulss, or groove, which is covered when the bearing is installed. Except for the rear bulkheed, a drilled hale rans vertically from the main all gallery down into and through the annulus of each comshaft bearing, and continues through the bulkheeds into the crankhaft bearings.

Oil under pressure in the main gallery moves downward and into the passage or annulus machined in the black

under the conshelf bearing shells, except the one at the conshelf bearings through a small hale near the bestem the conshelf bearings. The remainder of the all continues downward through a hole in the upper holf of each crankholf main bearing, fills the groove in the top half of the bearing, and lubricates the crankholf main journals. The full-pressure all delivered to the main bearings feeds through drilled passages in the crankholf to the connecting religiously. Each connecting and has a small slate milled in the split lines where the cap articules, oil is farced out of the sale to each revolution of the crankholf, and is directed to the wall of the adjacent cylinder of the appearite bank.

The rear main bearing obtains its lubricating oil by means of a hole drilled from the bearing into the main oil delivery riser which connects the oil pump to the main oil adlery.

The annulus or slot under the comshaft rear bearing in the cylinder block distributes oil at low pressure to the two tappet galleries. These galleries are drilled



directly through the centerline of each tappet bank for the length of the engine to supply lubrication to the tappet and valve operating mechanism.

Oil pressure in the tappet galleries is lower than it is in the main gallery. A drilled hole from the camshoft rear bearing into the main oil gallery keeps high pressure oil in contact with the bearing at all times. The bearing shell has another similar hale in line with, and to the rear of, the hole just described. This hale is directly over the annulus in the comshoft rear bearing boss and a hale is drilled from this annulus at an angle to each of the tappet galleries. A metering slot is milled in part of the outside diameter of the comshaft rear ingreal, just wide enough to cover the distance between the two holes in the bearing shell, to provide flow of oil from one hole to the other. Since the front hole is always exposed to high pressure ail, it keeps the comshaft rear bearing lubricated, and at every revolution of the comshaft, the front hole fills the metering slot with ail under pressure. The oil crosses to the bearing shell rear hole and into the annulus in the cylinder black camshaft rear bearing

boss. The oil then is carried through the two drilled holes leading to the tappet galleries. The pressure of the oil in the tappet galleries is controlled by the length of the metering slot.

Each toppet, whether the mechanical or hydroulic type, see anomales in its body which permits all distribution throughout the length of the gallery, regardless of the pasition of the toppet, up or down. Each tappet has a drilled halo in its annolus, which allows entrance of the gallery ell, under pressure. Oil flows out the top gallery ell, under pressure. Oil flows out the top distribution to the cavity of see. The oil keeps the reaches are followed by the seem to the court of the cavity of seet. The oil keeps the reaches are followed halo with the cavity of seet. The oil keeps the reaches are followed halo distributions of the cavity of

The comshelf front bearing is slotted to deliver all to the moting surface on the hub of the conshelf drive gear. The face of this gear has a cross-slotting which throws oil by centrifugal force onto the timing chain. The distributor bearing is lubricated by oil from the right hand tappet gallery.







# HIGH PERFORMANCE PACKAGE

For the customer who desires exceptional acceleration, speed, and performance, a high performance package which increases the breathing or volumetric efficiency of the engine is offered as optional equipment on vehicles equipped with the new V-8 engine. This equipment package includes a four barrel carburetor, special intake manifold, dual exhaust system and high capacity of labsh air cleaner.

The advertised gross horsepower of the V-8 enine with the power package is 180 at 4600 rpm, with a gross torque of 260 foot pounds at 2800 rpm, Net horsepower is 160 at 4200 rpm, and net torque 240 foot pounds at 2600 rpm.

The four barrel, downdraft carburetor is basically two dual carburetors contained in one assembly. The section containing the metering rods, accelerating pump and choke is termed the primary side, the secondary side of the carburetor, which also contains two barrels, has only the nozzles and main metering jets, these being brought into supplementary operation when the accelerator pedal is heavily depressed for high speed and acceleration. The primary and secondary bowls are separated by a partition. Each of the two bowl sections has its own dual float assembly and needle valve, which maintains the fuel levels in the bowls. A balance passage in the side of the carburetor body equalizes the fuel levels in the separate bowls under all tilt and surge conditions. The secondary throttle plate is so linked to the accelerator control lever that the secondary barrels cannot come into operation until the accelerator pedal is depressed to approvimately half throttle position. The secondary nozzles then operate in parallel with the primary nozzles for maximum engine performance on demand. The automatic choke operates only on the primary side



of the carburetor. The linkage is so designed that the secondary throttle plate will not operate, regardless of the accelerator pedal position, until the engine has reached a temperature high enough to open the choke. This prevents loss of choking on high acceleration demands following a cold start. Linkage is also provided to open the choke plate the control of the automatic choke has come into release position, permitting dispersion of liquid fuel if the engine is flooded.

The intake manifold used in this high performance package is a special casting. Not only is the mounting pad different from that on the regular engine to accommodate the four barrel carburetor in place of the two barrel carburetor, but the basic area of the fuel intake passages is approximately

Is per cent larger. Since the cylinder heads are the same, the manifold intake passages they down at the outlet ends. The larger basic area of the intake passages permits the denser intake misture to pass through at a velocity equal to that of the intake to the same of the same of the same of the cause the larger openings offer less resistance to the passage of the mixture. While the relative height of the carbureter meanting pad remains the in the manifold are higher. If the overd passages in the manifold are higher.

Generally similar to the 24 inch long muffler used on the convertible model, except that the inner tubes are 1/4 inch smaller, the dual mufflers are of the reverse flow type and effectively subdue engine noise.

# OPTIONAL 6-CYLINDER ENGINE

The revisions incorporated in the regular production engine are also included in the optimal six cylinder engine used with the Powerglide transmission. Special features of the engine are the same as in 1994. These include hydraulic valve lifters, high list cannot be also as the relocated and revision of the result of the r

lower main bearings are also used in this engine. Under the new procedure of liberalized test conditions for establishing the advertised power rating, in line with the methods used by competition, the new rating for this engine is 136 horsepower at 2000 rpm. Liberaine, 2000 rpm. Liberaine, 2000 rpm. Chevaine, 2000 rpm. Chevaine, 2000 rpm. Compared with 200 foot-pounds at 2000 rpm as advertised in 1954.

The revised contour oil pan sump for steering linkage clearance, and the balanced four point engine mounting system are used with this engine. The 12-volt electrical system, likewise, is incorporated.

#### POWERGLIDE TRANSMISSION

Smoother operation, increased durability and simplified servicing are the results of an extensive redesign of the Powerglide transmission. The prinrian change is a greatly simplified bydraulic system which is made power hand. Due to the greater holding power of this new band, line pressure is reduced and the vacuum modulator eliminated. This and other changes in valving provide smoother shifts in either manual or automatic operation. Other and to the optional V-8 engine. Incincian strice and to the optional V-8 engine.

A new double-wrap low brake band of three circular segments in the key to improved Powerglidoperation. The extra wrap previded by this unique design is the basis of the greated disenspagement of the band. Since the band has potentially four times more hadding power than the former single strap band, it can be operated with lower main line strap band, it can be operated with lower main line of the band of the band of the strap band, it can be operated with lower main line of the band of the band of the band of the band of the power band of the band of the band of the band of the power band of the power band of the power band of the band of the

In the previous design, high hydraulic pressure was needed to apply both the low and reverse bands and was supplied by the modulator unit. Now that main line pressure is sufficient for effective operation of the low band, the complex vacuum and hydraulic modulator is no longer required. Elevated pressure is still needed for applying the severe was the contract of the contract of

With the new low pressures, the high clutch-low servo valve is no longer necessary nor are the primary and secondary clutch valves. Governor modulation of the main line pressure is also discontinued. Because the valves are fewer and simpler, malfunction can be pin-pointed more accurately.

Two new timing valves, the closed throttle downshift cashioning valve and the forced downshift cushioning valve, are added to the main valve body. These valves, together with the reduced main line pressures and the new low brake band, improve high speed upshifts, free the transmission from abrupt downshifts while braking or coasting, and assure smooth manual shifts from Drive to Low.

The high clutch assembly is essentially the same at the late 1944 type but is changed to permit locating the ball vent in the clutch drum rather than in the clutch piston. This change in venting is made to prevent partial clutch engagement during a feat white to reverse or while coasting in neutral at high speeds, thereby increasing the durability of the clutch. Another darability restricts the clutch is a superior of the control of the

Full pressure on the accelerator holds Powerglide in low gaer up to a new maximum of about 52 Mil. This new upskill point and the corresponding downshift point of 4 mil po

Similarly, the closed throatle and part throatle shift points are raised. The upshift at closed throatle occurs between 12 and 14 MPH and the downshift at 10 to 13 MPH. Both points are about 4 MPH higher than late 1954.

A new transmission extension and the lengthening



#### INDICATOR QUADRANT . . .

The illuminated indicator quadrant mounted at the base of the instrument cluster is part of the concentric selector central mechanism. Like its counterpart, the regular production gearshift control, the selector mechanism employs an articulated linkage to the transmission to minimize movement of the selector lever.

of the output shaft meet the requirements of Hotchkins drive, Another dimensional change in the output shaft is an increase in its minimum diameters from which follows a reduction in the size of the governor driven gear and the speedometer driven gara. The new speedometer drive assembly is the same as that used with the regular production threesmed transmission.

The new transmission housing is provided for use with the optional V-8 engine. This housing differs from that used with the six cylinder engine in bolt hole spacing and in the elimination of the ear-like projection used to house the end of the starter.

When Powerglide is used with either engine, there is more free space in the engine compartment due to elimination of the separate hydraulic oil cooler. Cooling is now provided by a heat exchanger which is bullt into the bottom tank of the radiator,

Oil flow to the heat exchanger is effectively controlled by the tubes connecting it to the transmission since oil will not flow through them until after it reaches operating temperature. Therefore, the thermostatic by-pass valve formerly used is eliminated. In its place is a pressure sensitive valve which protects the heat exchanger against excessive oil pressure which might result from an obstruction.





# DOUBLE-WRAP BAND .

A kay is impreved Powerpide operation is a new double-wrop law hand of unique design. This hand, though it has limite more briding mere than the single wrop hand it replaces, has potentially four times more holding newer. The new band consists of two separats which are joined for propelled appreciation and a middle segment which completes the second wrop. Its increase in holding power over the segment which completes the second wrop. Its increase in holding power over the single wrops is composable to the develope given by wropping a rope twice oround a part to such a force greater than could be held by a single turn. The new band design is more composit than the commodaly used flyer which provides a double wrop in the form of a helix. As well, since its application paint and another point are directly opposing, either than offset by twe widsh of the board, the Chevrolet design eliminates the high threat loads which would have been imposed on the clutch'd down bankings by a helical design.

# -POWERGLIDE TRANSMISSION -TRANSMISSION CLUTCH RELIEF -CLUTCH DRUM -CLUTCH PISTON --LOW SAND COR OUTPUT TRANSMISSION EXTENSION SPEEDOWETER DRIVEN GEAR PRESSURE REGULATOR PRESSURE REGULATOR REVERSE BOOSTER VALVE MANUAL VALVE GOVERNOR DRIVEN GEAR . MAIN VALVE BODY FORCED DOWNSHIFT CUSHION VALVE -

3

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CLOSED THROTTLE DOWNSHIFT CUSHION VALVE

MAIN VALVE BODY - FRONT VIEW



# OVERDRIVE TRANSMISSION

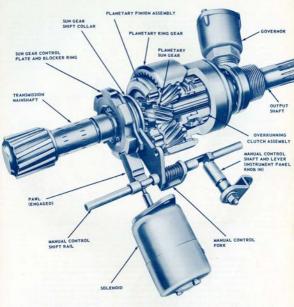
The Chevrolet overdrive option, offered for the first time in 1955, is a combination of the redesigned 3-speed transmission, a 0.7-to-1 ratio overdrive unit, and a high performance 4,11-to-1 ratio rear axle. Together, this combination reduces engine speed by 22 per cent while maintaining the same road speed as a conventional car with the standard 3.7-to-1 rear axle. The reduction in engine speed, amounting to 615 fewer revolutions each mile, represents a considerable reduction in gasoline and oil consumption. Driving is more comfortable, particularly at highway cruising speeds, since engine noise and vibration are reduced. Besides the bonus in cruising economy, the car with overdrive has exceptional flexibility and wide range performance with either the regular production or the optional V-8 engine.

The mechanism of the overdrive unit consists of a planetary gear set, an overrunning clutch and the electrical and mechanical means for controlling the electrical and mechanical means for controlling the overdrive ratio. Besides a selencid operated pawl, there is a governor operated solenoid switch, and a kick-down switch operated by the accelerator link-age. A manual lock out pull-handle is mounted below the instrument sourch.

OVERDRIVE OPERATION, since it is controlled by the accelerator pedal, has the ease and convenience of a semi-automatic transmission. With the manual control in overdrive position, the driver has only to release the accelerator pedal after reaching the cut-in speed of 31 MPH to shift up into the overdrive ratio. When extra power for acceleration or hill climbing in seeded, the driver merely present acaccelerator pedal to the floor to shift the transmisaccelerator pedal to the floor to shift the transmisperformance rear axis into operation. The overdrive automatically disengages when vehicle speed drops below 27 MPH.

The flexibility of overdrive is especially useful in mountainous country where frequent use of second gear is necessary with the conventional transmission. Because overdrive second is comparable in performance to third direct, the driver may use overdrive second to attain as high a speed as the terrain permits and, at the same time, have reserve performance immediately available by downshifting with the accelerator pedal into second direct. When descending steep grades, the overdrive may be locked out and engine braking engaged. Once the unit is in direct drive, the driver simply pulls out the overdrive knob on the instrument panel or, if the vehicle is traveling below cut-in speed, he presses the accelerator pedal to bring the transmission up to drive line speed before pulling the knob.

An added convenience is reduced use of the clutch in city driving. The overdrive unit has an overrunning clutch which permits the vehicle to freewheel below the overdrive cut-in speed. Thus,



except when stopping or starting, shifts are made through the gears by simply releasing the accelerator pedal and moving the shift lever. Shifts between third and second gear may be made in similar fashion as long as the vehicle is traveling below the cut-in speed.

OVERDRIVE MECHANISM. Below the cut-in speed, drive is through the overrunning clutch. The mainshaft, which extends through the planetary sun gear, is splined to the clutch carm. While the engine is driving, power is delivered through the clutch rollers to the outer race which is integral with the output shaft. When engine speed falls below output shaft speed, the clutch unlocks and freewheeling results.

results.

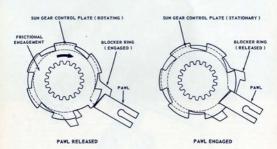
The planetary gear set consists of a sun gear which rotates at the speed of the mainshaft but has no driving connection with the shaft, the planet cage

which is splined to the mainshaft, and the ring gear which is splined to the clutch outer race. Engagement of the planetary ratio is controlled by a sun sear control plate.

At 31 MPH the governor switch closes and energizes the solenoid which in turn urges the pawl towards engagement with the sun gear control plate. When engagement occurs, the sun gear, which is splined to the control plate, is prevented from turning. The planetary pinions, which are driven by the mainshaft, then walk around the fixed sun gear

and cause the output shaft to travel one revolution for every 0.7 of a revolution of the planetary cage.

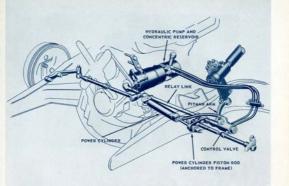
Overdrive may be locked out by pailing out the instrument panel knob. Moving the knob causes the shifter rail to move to the rear, locking the past to the rear to engage the splines in the planetary to the rear to engage the splines in the planetary locked by the control of the planetary are locked together, the entire mechanism rotates as a unit so that both freewheeling and overdrive are eliminated.



#### BLOCKER RING . . .

BLOCKER KIND ... The blocker ring prevents overdrive operation except when desired by the driver. At the curi-in speed, the solenoid urges the poul ferward but further tower is prevented, while the engine is driving, by the blocker ring. When the occelerator pedia is released, the placetary ring gene overtress the planet cape and thus causes the sun goar to show to a stop and then reverse. At this moment, the blocker ring, which is held on the hab of the sun gent coatrol plate by spring tension, reverses with the sun gent and allows the poul to sonp into the first notch in the slowly transing coatrol plate. Once engaged, the overdrive remains in appretion until vehicle speed falls to 27 MPH or until the kick-down switch is used.

The kick-down switch permits a shift down from overdrive to direct drive without reducing which speak below the cut-out point. Pressing the occelerator to the floor convex the switch to cut the current to the salemoid whereagon the pout lends to disnappe. Howver, due to derivergroup reservine, the pout is held by the castral plate and cannet retrievauntil trayers in reduced. Therefore, the switch also interrupts the engine ignition momentarily to reduce trayer enough to let the pour disnappes is known.



#### POWER STEERING

Power steering is redesigned for more efficient operation and greater driving comfort. Important advantages are realized through relocation of compensate to that part of the steering system where a steering assistance of the compensate that part of the steering assistance whereas the steering assistance through a hydraulic power cylinder, the cylinder now is attached directly to the cylinder now in a stached directly to the cylinder now in a stacked directly to the cylinder now in a stacked directly to the cylinder now in a stacked directly in the cylinder now in the cyli

A new hydraulic control valve location combines with a new hydraulic power cylinder of longer stroke and smaller bore to provide improved sensitivity in proportioning power assistance. Through this design change, a higher degree of road feel his actived especially in cornering. Also, land assistance transition from the straight sheed position is eliminated because control valve travel is no longer multiplied by the steering gas. The strength of the control valve travel is no longer multiplied by the steering leafly his requiring a longer stroke at low-er force than before to provide steering assistance. This location of the power cylinder places it in

a position to dampen road shock and vibration be-

fore they reach the steering gear and thus better shield shock from the driver's hands. Forming one end of the relay link and connecting the pitman arm ball stud to the valve spool, the hydraulic control valve operates in basically the same way as in the previous design. Its function is to determine and direct the correct measure of assistance required to keep driver steering effort within set limits. These limits remain unchanged with assistance starting at approximately 3 pounds steering wheel rim pull and reaching a maximum of 81 per cent assistance with about 8 pounds steering wheel rim pull. To do this, the control valve is positioned in the steering system as a functioning part, but with sufficient spring loaded travel to actuate the valve when steering effort requires more than the predetermined minimum force. Thus, when steering effort overcomes the spring holding the valve spool in a neutral position, assistance in the form of hydraulic pressure is channelled to the correct end of the power cylinder.

A vame-type hydraulic pressure supply pump similar to the 1934 design is used. However, the new pump mounts on the rear of a special generator replacing the production generator, and is driven by a splined extension of the armature shaft. A hydraulic fluid reservoir concentrically surrounds the pump to complete the hydraulic pressure supply system.



# POWER STEERING HYDRAULIC PUMP . . .

More efficient placement of power steering components eliminates a source of engine compartment space restriction to provide greater accessibility under the hood. The hydroulic pressure supply system consisting of the hydroulic pump and flight reservoir is the only component of the power steering option remaining in the engine compartment.

The new hydroulic pressure supply system is integrated with a special generator inte one essembly which willines the producting generate mounting and drive provisions. This is in contrast to the 1956 design which required a separate mounting and drive for the hydroulic pump in addition to the tendend engine accessories. Thus, the new generate-hydroulic supply system integration permits easy installation with white the 6 or V4 engines and other options.

The generator supplied with this option is rated at 30 amperes as compared to 25 amperes for the standard generator. This insures adequate electrical capacity at traffic speeds, even though the drive ratio is 13 per cent slower with the integral generator-hydroulic pressure supply unit than with the standard generator.

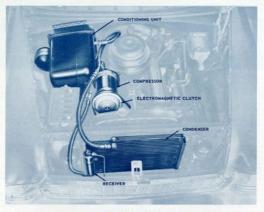
#### POWER BRAKES

Power brakes retain the basic features of operation and design introduced in 1954, and have important changes to improve safety. The option is available on all models, whereas formerly it was furnished on Powergide models only.

To minimise the contrast between power-on and power-off braking effort, the pedal mechanical ratio is increased to 1.55-to-1 from 1-to-1. This decreases pedal effort under power-off conditions by mon-third, or only twice the effort required with conventional brakes as compared to three times in the previous design.

Power assisted braking retains the same low effort as in 1954. Reaction springs within the control valve are revised to proportion less vacuum assistance per unit of pedal linkage input force to offset the increased pedal mechanical ratio,

Available pedal travel is increased although the low brake pedal position, in which the driver has merely to pivot his foot on the heel between the brake and accelerator pedals, is retained. The greater pedal travel is gained through the design of the body which provides more space for the pedal in the fully depressed position.



# AIR CONDITIONING

A complete, all-weather air conditioning system, the product of extensive engineering research, is introduced as a production option for 1955. Availability includes all passenger cars equipped with the V-8 engine, except the convertible.

Taking a new approach to the problems peculiar to automobile air conditioning. Chevrolet engineers have evolved a new design concept which embodies in one compact until pleasant relief from summer heat, winter cold, and oppressive humidity in all accasess. No other car air conditioning system presents to the control of the control of

all-weather comfort,

The system operates on outside air with an automatically varied partial recirculation feature, or entirely on recirculated inside air. At any season of the year, the driver and passengers are able to shut out traffic noise and air roar, select their wather, and enjoy a refershing atmosphere. When endriving with all windows closed, the "living room" comforts of easy conversation or radio listening

increase driving pleasure and reduce fatigue.

Space saving simple unit design eliminates un-

warranted duplication of components and permits the mounting of all major assemblies beneath the hood and instrument panel. No valuable luggage space is lost and there are no exposed ducts to mar the appearance of the car interior.

Oxiside air is introduced into the system through the cord itsake and immediately passed through the conditioning unit, an installed housing containing speed sirecco blower directs the air to a distributor mounted high on the covel panel inside the passenger compartment. Conditioned air then enters the passenger compartment through any of three main dissenger compartment through any of three main distributions are supported in properties determined by control settings.

The desired heating capacity is obtained simply by metering the flow of engine coolant through the heater core. Basic components of the refrigeration system include in addition to the cooling coils, a refrigerant, compressor, electromagnetic clutch, condenser, liquid receiver and expansion valve,



DISTRIBUTION. When cooling is desired, a door within the distributor howing may be positioned to direct cooled air through flexible ducts to two next, adjustable outlet nozgles mounted in spherical sockets at each end of the instrument panel. These coultests may be positioned to direct air in accordance with individual preferences, along the inside roof line, downward, or directly at the passengers.

One edge of the cool air by-pass door in the main distributor is unsealed. A slight gap, is designed to permit passage of sufficient air through the heater distributor to relieve the front compartment floor area of the heating effect of the engine compartment.

In setting the controls for heating, the by-pass door is normally positioned to block air flow to the cool air outlets on the instrument panel. Heated air then takes a straight path to the defreater door where flow is divided, according to the position where flow is divided, according to the position of the position of the position of the position of the defreater manifold. The most promote even distribution to four defreater notales widely appect along the windshield.

CONTROLS. Since the factors which determine the condition of outside air vary independently, they require independent controls. Six control knobs adapt the system to a wide range of such variations.

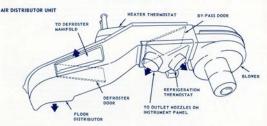
Five knobs move through slots in a bright metal control plate mounted on the instrument panel to the right of the driver. Operation indicators on an illuminated dial are simple and clear. A separate pull-out knob mounted on the instrument panel lower flange positions the by-pass door.

The two-speed blower control moves across the top of the control panel indexing at OFF, FAN, and HI. To prevent the refrigeration system from operating with insufficient air supply, the wiring is so arranged that current becomes available to engage the compressor clutch only when the blower switch is in the intermediate or HI position.

Below the blower control, another knob moves horizontally, stopping either at OUTSIDE AIR on the left or INSIDE AIR on the right to determine the source of air supply.

Over three vertical slots are the indicators HEAT, REFR and DEFR. The DEFR knob positions the defroster door. As the knob is moved down, the amount of air directed to the defroster manifold is increased.

The HEAT control knob adjusts a thermostat valve within the distributor. Moving the knob down increases the temperature setting. The heat output required to maintain the desired temperature within



the car is obtained by continuous thermostatic regulation of the flow rate of hot water through the core. Moving the REFR knob down approximately a quarter of an inch closes the refrigeration switch, which is part of the cool air temperature control unit located in the distributor at the cool air outlet, Pressing the knob down farther lowers the temperature setting of the adjustable thermostat,

The conditioning unit receives outside air directly from the cowl intake through the upper chamber of an adapter housing mounted on the dash panel. The lower chamber of the adapter is open to inside car air through a grille in the dash panel near the toe board. A flexible rubber valve, in the panel which separates the two chambers, is designed to pass inside car air to the upper chamber in accordance with predetermined air pressure relationships. The automatically regulated recirculation of cooled air serves to maintain cooling efficiency when the compressor speed is relatively low and, at the same time, minimizes the entry of contaminated air in heavy concentrations of slow moving traffic,

The recirculation selector knob is cable connected to a door hinged over the cowl intake passage to the upper chamber. When outside air becomes excessively contaminated, the knob may be moved to INSIDE AIR to cut off the outside supply. The blower then draws inside air past the flexible valve and recirculates this air through the conditioning unit,

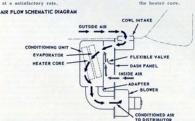
The combinations of temperature and relative humidity which satisfy personal comfort fall within considerably narrower limits than nature usually supplies.

In off seasons and in temperate climates when outside air temperature stays at a desirable level, the atmosphere often seems heavy and unpleasant, excessive relative humidity being the most frequent cause. Since the moisture content of the air is too close to saturation, bodily moisture is not absorbed

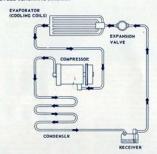


With the unique Chevrolet system, the right combination of temperature and humidity is easily obtained regardless of weather conditions. By setting the REFR knob for cooling and the HEAT knob for heating, excess moisture may be removed from the air without changing the temperature in the car. If a warmer or cooler atmosphere is desired, the HEAT knob is positioned accordingly,

The de-humidifying feature is achieved by passing incoming air through the cooling coils where the excess moisture condenses and is drained from the system. The temperature of incoming air is then raised to the desired level as the air passes through the heater core.



#### REFRIGERATION CYCLE SCHEMATIC DIAGRAM



REFRIGERATION CYCLE, Freon-12, the refrigerant, is a non-toxic, non-flammable, practically odorless gas with a very low boiling point, commonly used in household systems. The refrigerant is circulated through a closed system, entering the compressor made low pressure. The compressor turn to the condenser, a fin and tube core mountained in front of the radiator core. The cooling effect of the air passing through the radiator grille reduces the gas temperature until it becomes liquid under high pressure. This liquid then passes into the condenser, and from there flows to the expansion valve,

inter liews to the expansion varve, caused by the compressor as the refrigerant leaves the expansion valve, it enters the evaporator, or cooling coils as a liquid under low pressure. Passage of warm incoming sir over the evaporator causes the liquid from a liquid to a gas, the Freen-12 shortes heat from the air passing through the evaporator, there have been considered to the contract of the contract of the contract of the contract of the compressor and the cycle reaches the lines free of moisture, the receiver task keeps the lines free of moisture, the receiver task keeps the lines free of moisture.

The five cylinder, barrel-type compressor is pivot mounted through an adjustable bracket to the water pump housing and the right exhaust manifold, Drive is taken through a belt from a double pulley on the crankshaft:

A thermostatic switch located in the cool air outlet

chamber maintains a nearly constant output temperature by activating an electromagnetic clutch on the compressor, liquid in the wappearlor coatinuss to absorb heat, changes to a gas, and collects at the top of the evaporator. The gradual decrease in cooling capacity of the evaporator is accompanied by a corresponding increase in the temperature of cooled air. A slight rise in temperature actuates or clutch.

Dirt and dust in the incoming air adheres to the damp surface of the cooling coils and is discharged through the drain along with the condensate. This washing action, coupled with the unique recirculating provisions, precludes the necessity for a separate air filter. The attendant maintenance requirement and restriction to air flow are therefore avoided.

To assure adequate refrigeration capacity when the car is at a standatill for extended periods and to satisfy the increased engine cooling requirement. A nelemnid controlled, vacuum actuated planger raises engine idling speed to 900 revolutions per minute when the refrigeration system is in use and the conventional transmission is shitted to Neutral, proposed in the convention of the convention of the conventional transmission may be shifted to Neutral way filed.

Other special provisions of the air conditioning option include a higher capacity engine cooling fan and, for the hot season, a convenient manual shutoff valve in the heater water line.

#### OTHER EXTRA-COST EQUIPMENT

POWER WINDOW LIFTS AND SEAT ADJUSTER.
The power window lift option now offers the added convenience of four window control in all passenger car models, except those of the 1500 Series. All windows are operated separately, either from a master four-button control panel on the driver's left or from an individual control button beneath

each window.

The operation itself is unchanged. Pressing the button down lowers the window; pushing it up raises the window. Each window is powered by a durable,

compact electric motor,

Effortless positioning of the front seat is again available at the touch of a button. An electric motor supplies instant power to move the seaf forward or back on the inclined track to any desired position. The control is located for the driver's convenience on the left side of the front seat on the lower end

panel.

Power window lifts and the power seat adjuster are available as production options, either indivi-

dually or in combination, ELECTRIC WINDSHIELD WIPERS. A two-speed electric windshield wiper motor is available as a production option on all passenger cars. In addition to its quieter operation, the new unit has the advantage of assuring uninterrunded wiper action

under the most adverse operating conditions.
The dual speed control operates at 160 to 180
wipes per minute on high speed and 100 to 120 wipes
per minute on low. The blades park in a horizontal
position at the end of an inboard stroke regardless

An automatic reset circuit breaker protects the unit from overload.

unit rottle of the control of the co

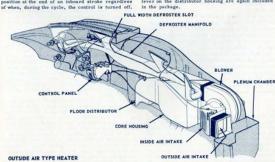
The core, two-speed blower, distributor and thermostat are housed as a compact unit mounted high on the dash panel within the passenger comparment where it does not interfere with front passenger leg room. A defroster manifold, replacing the individual hoses, is confoured to promote an

the individual hoses, is contoured to promote an even distribution to the four defroster nozzles. Outside air is taken into the system direct from the plenum chamber through a separate opening in the right cowl side panel.

A lighted control panel installs on the instrument panel to the right of the steering wheel within easy reach of the driver or front seat passengers.

The new heater is available either as a dealer installation or as a factory optional accessory.

A new high capacity recirculating heater and defreater unit features the four outlet defroster manifold for uniform distribution across the full-width of the wrap-around windshield. The two-speed blower control on the instrument panel and the defroster lever on the distributor housing are again included in the nackage.





#### HEATER CONTROL PANEL . .

The control panel for the outside air heater is clearly marked to make adjustment of the controls simple, and is now illeminated for new night driving convenience. The two-speed sirocco blower is controlled by the upper knob which indexes over the words OFF, FAN, and HI. The intermediate position starts the fam in low speed

operation.

Below this, a knob indexes at either INSIDE AIR or
OUTSIDE AIR. The knob controls a two-position toggleaction door which selects the source of air supply. The
door closes over the pleasure chamber opening when recirculated air is preferred and over the recirculation
artille when outside air is desired.

The TEMP control knob adjusts a valve within the distributor. The heat output required to maintain the desired temperature within the car is obtained by continuous thermostatic regulation of hot water through the care.

The DEFR knob positions the defroster door. As the knob is moved down, the amount of air directed to the defroster is increased.

RADIOS. Both the manually tuned and the pushbutton operated radio receiver are redesigned. New controls and a speaker separate from the chassis are styled to complement the contemporary design of the instrument panel.

A combination signal seeking, manually-tuned and push-button receiver, formerly available only on the Corvette, is now offered as an accessory on all passenger car models. Particularly convenient while traveling, the signal scaking tuner uncommitcally and accurately tunes in stations, in frequency sequence, each time a starting har is depressed. A ring behind the manual station selector knob may be rotated to any one of four indexed positions to adjust the sensitivity of the receiver. In the extreme counter-clockwise position that sensitivity of the sensitivity countries, or "more stations" selection of only the strongest vanished stations. As the control is rotated citeck-will select more stations, and in the extreme position it will tasket more stations, and in the extreme position it will tasket more stations, and

Between trips, five push-buttons provide quick selection of favorite local stations with signal seeking accuracy. With this combination, the simplest, least distracting method of tuning autoenatically provides the best performance and tone quality of which the receiver is canable.

OTHER ACCESSORIES. To satisfy a wide range of individual preferences, a full line of functional and decorative accessories is again made available for dealer installation. Many, like the new radio receivers and beater units, are improved and completely restyled in line with the overall advanced design of the new car.

Important additions for 1955 include a moisturesensitive automatic top lift for the convertible and a continental styled spare wheel carrier for all sedans and course including the convertible.

dans and coupes including the convertuble.

The automatic top lift protects the car interior from rain when the convertible is parked with the top down. The unit consists essentially of a moisture sensitive grid, a safety switch, a micro, switch, and two relays.

The grid, which is mounted on the under side of the right roof rail, is exposed when the top is down. The grid has high electrical resistance when dry, but when moist, conducts sufficient current to actuate a sensitive relay. This relay, in turn, energizes the top lift mechanism through a power relay.

To prevent unintentional operation, a safety switch mounted on the instrument panel lower flange must be left "on" and the ignition switch "off" to allow the grid to operate the top lift mechanism. The micro switch de-energizes the circuit when the top is fully raised.

The spare wheel carrier mounts on a sturdy support inside a U-shaped double har bumper section which replaces the center section of the rear face which replaces the center section of the rear face plate. The seambly is held in an upright position by a bracket on the deck lid. Releasing a latch permits tilling the carrier to a position thirty degrees above the horizontal. A lock case over one of the wheel mist protects against their, Although appearance, the unit has the added advantage of increasing luggage space.

# SEDAN DELIVERY





#### SEDAN DELIVERY

The 1955 Sedan Delivery displays all the mechanical features as well as the advanced contemporary styling of the new passenger car.

THE EXTERIOR STYLING for the most part duplicates the Series 1500 Station Wagon. The rear quarter window areas, however, are replaced by solid metal depressed panels outlined by raised embossments which encircle the body at the belt and roof lines. Design changes to the rear end of the vehicle en-

hance its low, wide appearance. The rear door, now hinged at the top instead of at the left side, opens upward, leaving the loading area free of obstruction. Assisted by two torsion rods, the door is easily lifted up and out of the way, with the hold-open position maintained by telescoping brackets on each side of the door.

Access to the load compartment is further facilitated by the larger rear door opening which is approximately ten inches wider than before while its height is decreased by seven inches.

Eight solid exterior colors are available: Onyx Black, Sea-Mist Green, Neptune Green, Skyline Blue, Glacier Blue, India Ivory, Shadow Gray and

Gypsy Red. INTERIOR STYLING. The attractive brown and beige interior of the Sedan Delivery is distinguished by most of the new features found on the other models in the 1500 Series. The all-vinyl seat and sidewall trim features a linked cord pattern on the cushion and backrest of the bucket-type driver's seat, and on the center section of the door trim panel. The facings and back of the seat as well as the upper panel and scuff pad of the sidewalls are of leather grain vinyl. Headlining is beige vinyl. The front compartment floor is covered by black

textured rubber, while the load space floor is painted black. Beige paint is used for the load compartment sides and inside of the rear door. VISIBILITY, With the new wrap-around windshield

and new rear door, the 1955 Sedan Delivery features a large increase in visibility area, totaling 622.1 square inches or 35.9 per cent. Of the total, the windshield shows an increase of 165.4 square inches, amounting to 19.4 per cent, the side door windows 184.4 square inches or 20.4 per cent and the rear window is nor than doubled in area over creased 272.3 square inches.

OVERALL SIZE AND ROOMINESS. An outstanding feature in the 1955 Sedan Delivery is the large reduction in overall height which, as is the case with the passenger car, contributes largely to its smart, fleet appearance. The overall height is reduced 4.2 inches with a resultant reduction of 4 inches in maximum load space height. Even with these

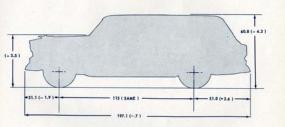
dimensional revisions, however, the load space capacity is 91 cubic feet, a reduction of only 1.5 cubic

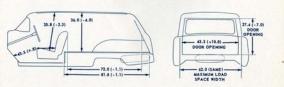
feet or 1.6 per cent.

SEDAN DELIVERY CHASSIS. All of the chassis
features incorporated in the 1955 passenger car are
included in the new Sedan Delivery with modifications to the rear suspension and a few variations
in optional equipment. By adding a fifth leaf to each
of the rear spring assemblies, their capacity is
increased from 1000 to 1140 pounds each at the

ground, and the deflection rate is increased 14 pounds per inch. This insures proper protection for the greater loads normally encountered in Sedan Delivery operation.

The Powergide automatic transmission option is continued and the new overdrive in combination with a conventional 3-speed transmission is available. The V-8 engine and air conditioning, which are optional equipment in all passenger cars, are not available in the Sedan Delivery.





### APPENDIX

EXTERIOR-INTERIOR COLOR COMBINATIONS ONE-COLOR EXTERIORS EXTERIOR-INTERIOR COLOR COMBINATIONS ONE-COLOR EXTERIORS FELD Series 2400 Upper and Lower Series 1500 Series 2100 Instrument Penal. FED Steering Wheel. Steering Column, 2434 Rear Feader Photo in the last 1502 Lower Body Wheel Stripe Trim Instrument Penal Steering Wheel Hub. 1508 2124 2109 2402 Upper Body Sheet Merol (No Stripe on Cambinations Cantas. 1503 1529 2102 2434 2454 2409 Too Celer Maldian Insert Garajah Maldinas Sector 2400) Radia Cours Wheels 1512 2102 Sasian 2400 Dir. Signel Heusing 1 Plate Ash Troy Cover Panel Door Locking Knob Heater Cover Ponel Grey & Black • 1 Sales & Season Shareline Beige Autumn Brance & • Skyline Blue S Glorier Blue Winter White Blue F Beige & Red Bright Manel Gypsy Red Winner White Red Bright Hatel Green Rad Winter White Black & Ivary India Ivary Oays Slack ٠ 62 S-sec Sec-Mist Green S Nastune Green & • Winter White Beige & Brown Shereline Beige Autumn Breeze & E • Green & Beige Shereline Beige Nephyne Green Meature Green • 100 Green San-Miles Green S Manhone Green • • Winter White Raise & School Shareline Raine Automo Sonna B 550 Green & Beige Shereline Sales Nestone Green Beige Bright Marel Neptyne Green Winter White 25 Skyline Blue Beige & Brown Shoreline Below Autumo Brenze & ٠ 25 Blue Skyline Blue S Glorier Shee Winter White Blue & Seine Shereline Salas Gineier Shee Glarier Blue Glaster Shre Gray & Black Beige & Brown Shereline Beige Automo Bosson & (5) Blue Skyling files 5 Glorier Blue • • Winter White Blue & Beige Shoreline Beige S Glorier Blue Winter White • £50. Shereline Balos Blue Glorier Blue • Gray & Black Copper Mercon • 150 Shoreline Beige Benwa Copper Maroon . Beige & Brown Bright Manual Copper Moreon Winter White 100 Brawn Shoreline Beine Autumo Bosons • • 150 Beige & Brown Winter White Bright Matel Autumn Brance Belahr Matal Gener Red • Winter White 65 Glosier Blue Blue & Bains Bright Marel Winter White Shadew Goey & • 65 Berwe Shouling Bains Automa Bassas B • • 115 Saine & Scoon Shareline Rains Autuma Scenza 6 • Blue Skyline Blue \$ Winter White Glesier Blue 150 Black & Ivery India leary Over Black 130 Beign & Brown Shareline Bains Autuma Branca di Skyline Blue S Blue Glacier Blee Winter White 100 Bright Matal Winter White Belos Raine & Brawn Shareline Beige Autumn Brenze & Bright Maral Winter White Regal Turqualse Regal Turquaise Beige Bright Matel White Winter White Bright Maral Winter White \* . Available on special order on 1508. 6 - Black steering wheel and bul-5 - Bright matel on 2400 

1

1

A-Shareline Beige steering wheel rim and spokes. 6-Sea-Hist Green steering wheel rim and spokes.

### EXTERIOR-INTERIOR COLOR COMBINATIONS TWO-COLOR EXTERIORS

### EXTERIOR-INTERIOR COLOR COMBINATIONS TWO-COLOR EXTERIORS

	-	-			Upper and Lower	1	54	eries 150	0	5	eries 210	0				Series	2400	
Upper Body	Speed Body Seek Seeky Seek Seeky Seek Seeky Seek Seek	Steering Wheel, Steering Column, Steering Wheel Hob, Gornish Moldings, Olr. Signal Housing, Ash Tray Cover Posel,		1502 1503 1512	1508	1529	2102 2103	2124	2109 2129	2402 2403	2454	2434	2409	2434 Top Color	Rear Fende Molding Inse Series 2400			
Sec-Mist Green	Neptune Green	Argest	Grey & Bleck	India Ivory	Shadow Gray &	-						1						7
			Green	Sec-Mist Green S	Reptine Green 6		1000											Winner White
Skyline Blue	Glocier Blue	Argest	Grey & Black	India Ivary	Shadaw Gray &	-	•				7							
			Blue	Skyline Blue S	Glegier Blue					•			•					Winner White
Naptuna Green	Shareline Belge		Green	Bright Herol	Neptune Green	-									1000	200		Winter White
India Ivory	Skyline Blue	Bleck	Gray & Black	India Ivary	Shadow Gray d												2	7
			Blos	Skyline Blue \$	Glocier Blue	-				•						100		Winter White
			Beige & Blue	Shereline Beige	Glocier Glue	F				1000								
India Ivery	Shedow Gray	Arpent	Gray & Black	India Ivary	Shedow Gray d	-												
	-		Blox	Skyline Blue S	Glocier Blue	C	1		-									Winter White
Automa Bronze	Shareline Beige	Block	Brown	Shareline Belge	Autumn Bosses								-			1000		
India Ivery	Sea-Hist Green	Black	Green	Sen-Mist Green	Neptune Green					•								
			Beige & Green	Shareline Beige	Neptune Green	-											7577	
Shoreline Beige	Autumn Brenze	Argent	Breen	Shereline Belge	Autumo Bobase	-							7000				19 10 10	
			Beige & Brown	Bright Hanel	Autumn Bronze &	100											Beige	Winter White
			Beige	Bright Hensi	Autumn Bronze	150			100			1000				•		Winter White
Glecier Blos	Shoreline Beige	Bleck:	Blue	Skyline Blue	Glecier Blue	-				•							100	
			Seige & Silve	Shereline Beige	Glecier Blue	65												
ladie Ivery	Onyx Block	Argent	Ivery & Block	India Ivary	Onyx Block	100			-			100		100		200		
India Ivery	Gypsy Red	Argent	Ivery & Black	India Ivery	Onex Block												100	
Glacier Blue	Skyline Blue	Sleck.	Blue	Shareline Belon S	Glecier Blue		-						1		•		Blue	Winter White
India Ivary	Regal Turqueise		Ivery & Turqueise	Bright Herol	Regal Yurqueise	100		_	100				•		•	200	White	Winter White
			Turqueise	Bright Henel	Regal Turquoise				00.11			1900		•				Winter White
Shareline Baige	Neptune Green	Argent	Grey & Block	India Ivery	Shadaw Gray &	100				100								
			Green	Sea-Mist Green S	Neptune Green	COL	TOTAL PROPERTY.			•		3						Winter White
horeline Beige	Glocies Blue	Argent	Blue	Shareline Beige \$	Gleeter Blue	100	The same of	1000	20.00			•	1 10	•	11000	200	000.00	Winter White
			Blue & Beige	Bright Hetel	Glecier Blue	-	10000	100	100.00	100		Contract to	-			•	Mary Control	Winter White
iboreline Beige	Gypsy Red		Red	Bright Hetel	Gypsy Red	100	O THE REAL PROPERTY.			1000	0		CI VIVO	•				Winter White
			Belge & Red	Bright Here!	Gypsy Red	200	0.000		100	1000		10000		-	•	7500	Beige	Winter White
			Beige	Bright Merel	Gypsy Red	000			150					- A	UETATU	•	The same of	Winter White
Doys Block	India Ivary	Bleck	Irery & Bleck	India Ivary	Onyx Black	1/8/2010	1 1000		Date 1	The same		3000			1000	-	-	
Dradaw Grey	Carel		Caral & Grey	Bright Metel	Corel	-	I DESCRIPTION		I fall	100	0	6	•	•	-0.110	100	100	Winter White
Reptune Green	See-Mist Green		Green	Bright Matel	Nepture Green	100	THE REAL PROPERTY.		200			2			•		Green	Winter White
			Beige	Bright Hetel	Naptune Green		1		1000						1000	•	40000	Winner White
ndie tvery	Carol		Corel & Grey	Bright Matel	Corel	0.000	-		5	200	100		-		•	0.00	White	Winter White
India feary	Hervest Gold	Bleck	Beige & Green	Shareline Beige	Neptune Green	-			100			90			12500			
			Green	Bright Metal	Naptune Green	1000	-	0.0	-	-				•			White	Winter White

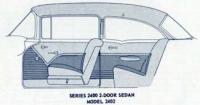
<sup>6 -</sup> Black steering wheel hob. 5 - Bright metal on 2400.

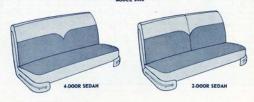
<sup>8-</sup>Shareline Beige steering wheel rim and spokes.

Both styles of recotons exteriors are available in the same colors and interior trim.

pressed paring where the day species.



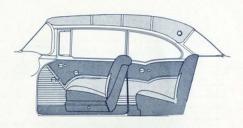




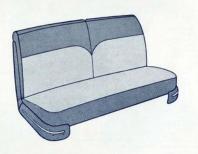
# INTERIOR COLORS AND FABRICS 2400 SERIES SEDANS

			A CONTRACTOR OF THE PARTY OF TH		TRIM C	DMBINA	TIONS	
	AREA		MATERIAL	Green	Blue	Corol and Gray	Beige and Brown	Ivery and Turqueis
Seors	Cushion and	Backress	Partern Clark	Dk. Green	Dk. Blue	Grey	Brown	Turqueise
	Cushion Fee	rings						
	Backrest Bolsters		Leother Grain Elascofeb	Lt. Green	Lt. Blue	Corol	Beige	Ivery
Back Front Sees	scings							
	Front Seat	Insert	Gabordine Flot Cloth	Dk. Green	Dk. Blue	Gray	Brown	Turquoise
	Bock	Lower Cross Bor	Leather Grain Vinyl	Dx. Green		Uray	Grown	Torquois
	Front Seat	Upper	Leather Grain Vinyl	Lt. Green	Le. Blue	Corel	Beige	Ivery
	End Ponels	Lower	Leamer Grain Yinyi	Li. Green	Lt. Date	Carai	Beide	irony
	Molding		Bright Metal					anion-
Sidewalls Upper P	Upper Penel		Leather Grain Vinyl	Lt. Green	Lt. Blue	Corel	Beige	Ivary
	Scull Ped		200000000000000000000000000000000000000					
	Center Pane	d	Ribbed Gabardine Flat Clath	Dk. Green	Dk. Blue	Grey	Brown	Turquoise
Cowl Side	Kick Ponels		Composition Board	DE GIEEN				
Headlining			Plain Nosped Cloth					Turquoise
Sunshodes	Covering		Frain Rappen Claim	Lt. Green	Le. Blue	Corol	Beige	
	Binding		Leather Grain Vinyl					
Arm	Front	Upper	Leather Grain Elascofab		- 19			
Rests	and Rear"	Lower	Gabardine Flat Cloth	Dk. Green	Dk. Blue	Grey	Brown	Turqueis
Floor	Front		Corpet	Dr. Green	Dk. Blue	Grey	Brown	Turqueis
Covering	Rear		Corper				10	

Rear arm reas on 2402 is applied type with leather grain vinyl top and plastic base in some colors as the built-in front arm rest.

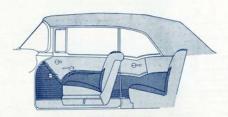


SERIES 2400 SPORT COUPE MODEL 2454



#### INTERIOR COLORS AND FABRICS 2400 SERIES SPORT COUPE

					TR	IM COMB	INATIONS	
	AREA		MATERIAL	Green	Blue	Red	Turquoise	Cerel and Gre
Seats	Cushion and	Bockrest	Straw Pattern Clath	Beige	Beige	Beige	Beige	Grey
	Cushion Fo	rings						
	Backrest Balster  Backrest Facings		Leather Grain Elascofeb	Green	Blue	Red	Turqueise	Corol
	Front Seat	Insert	Leather Grain Vinyl	Beige	Beige	Beige	Beige	
	Back Front Seat End Panels	Lower Cross Bor						Gray
End Panels		Upper	Leather Grain Vinyl	Green	Blue	Red	Turqueise	
		Lower						
	Molding	Bright Metal						
Sidewalls Upp	Upper Ponel			Green	Blue	Red	Turquoise	Cerel
.40	Scuff Ped		Leather Grein Vinyl	Green	Diffe		Turquest	Cerei
	Center Ponel		Ribbed Vinyl	Beige	Beige	Beige	Beige	Grev
Cowl Side I	Cick Ponels		Composition Board	Green	Blue	Red	Turquoise	Grey
Headlining			Leather Grain Vinyl			Beige	Beige	
Sunshades			Leather Grain Viny!	Beige	Beige	Deige	Beige	Corol
Roof Bows			Bright Metal					
Arm	Front	Upper	Leather Grain Elascolab			100	of other	Corel
Rests	and Rear	Lower	Leather Grain Vinyl	Beige	Beige	Beige	Beige	Corel
Floor	Front	7				Red		2011
Coverings	Rese		Corpet	Green	Blue	Red	Turquoise	Grey



SERIES 2400 CONVERTIBLE MODEL 2434



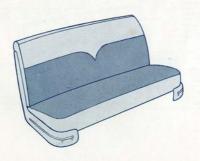
...

# INTERIOR COLORS AND FABRICS 2400 SERIES CONVERTIBLE

					. 1	TRIM COM	BINAT	IONS				
AREA		MATERIAL	Corel and Gray	Green	Blue	Beige and Brown	Beige and Red	Ivery end Turquels				
Seats	Cushion		Leather Grain Elascofab						Turquoise			
	Bockrest		Wish Saddle Stitching	Grey	Dk. Green	Dk. Blue	Brown	Red				
	Bockrest Fo	ocing (upper)	Leather Grain Elescofeb									
	Cushion Focings		Leather Grain Eleacofeb						100			
Backrest	Backress Fe	seing (lower)		Corel	Ls. Green	Lt. Blue	Beige	Beige	Ivory			
	Front Seat	Insert	Leather Grain Vinyl									
	Bock	Lower Cross Bor	Leather Grain Vinyl	Grey	Dk. Green	Dk. Blue	Brown	Red	Turquoise			
	Front Seat	Upper	Leother Grain Vinyl	-	Ls. Green		Reine	Beioe				
End	End Ponels	Lower	Crown Grant Vings	Cara	Ls. Green	Li. gige	Deige	Deige	Ivory			
		Holding	Bright Metal									
Sidewolls	Upper Pone		Leother Grain Vinyl	Comi	Lt. Green			Beige				
	Scull Ped		Ceaner Gran Vinys	Carai	Lt. Green	Lt. Dive	Deige		Ivery			
	Center Pane	.1	Ribbed Vinyl	Grey	1		1					
Cowl Side	Kick Ponels		Composition Board	Carel								
Sunshades			Leother Grain Vinyl	-								
Arm	Front	Upper	Leother Grain Elascofob		Dk. Green	Di Blue	Brown	944	Turqueise			
Rests	And Rear	Lower	Leother Grain Vinyl		J. 31660	0.00		-				
Floor	Front		Corpet	Grey		1 3						
Coverings	Rear		Capti									
Folding Top Boot			Leather Grain Eloscofab	Grey	Dk. Green	Dk. Blue	Beige	Beige	Ivery			



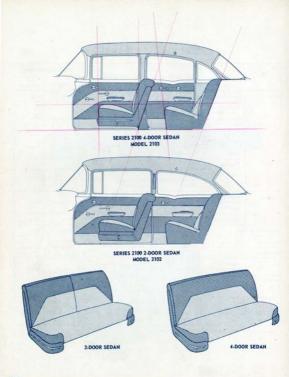
SERIES 2400 STATION WAGON MODEL 2409



#### INTERIOR COLORS AND FABRICS 2400 SERIES STATION WAGON

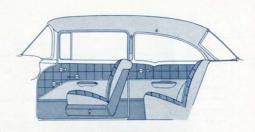
	AREA		MATERIAL	TRIM COMBINATIONS		
	AKEA		MATERIAL	Belge	Blue and Belg	
Seats	Cushion and Ba	ckrest	Straw Pattern Clath	Beige	Beige	
	Cushion Facing					
	Bockrest Bolste	н	Leather Grain Elascofob	Lt. Beige	Blue	
	Backrest Facings					
	Front Seet	Insert	Leather Grain Vinyl	1000	2004	
	Bock	Lower Cross Ser	Learner Grain Yinyi	Beige	Beige	
	Front Seat	Upper	Leather Grain Vinyl	Lt. Beige	Blue	
	End Panels	Lower		Lt. beige	Dute	
		Molding	Bright Metal			
Sidewalls	Upper Ponel		Leether Grein Vinyl	Lt. Beige	Blue	
	Scuff Ped		Leemar Grein Vinys	Li. Beige	Blue	
	Center Panel		Ribbed Vinyl	Beige	Beige	
Cowl Side Kiel	k Ponels		Composition Board	Beige	Blue	
Headlining			Textured Vinyl	Lt. Beige		
Sunshades		a the tall	Texaces timps	Ct. Daige	Lt. Beige	
Arm	Upper		Leather Grain Elascofab	Beige	Beige	
Rests	Lower		Leather Grain Vinyl	Deige	Beige	
Floor	Front	A A STATE OF THE S	Rubber	200	Blue	
Coverings	Rear			Beige	8-24	
Load Space *			Ribbed Lineleum			
Theelhouse Cover Panels		Leather Grain Vinyl	Dk. Beige	Dk. Beige		

TRIM COMBINATIONS



#### INTERIOR COLORS AND FABRICS 2100 SERIES SEDANS

				TRIM	COMBINATIO	NS
	AREA		MATERIAL	Green	Blue	Brown
Secre	Cushion and E	lackrest	Pattern Cloth	Lt. Green	Lt. Blue	Ten
	Cushion Front	Facing	Pullin Clain	C. O.C.	En Brite	-
	Cushion Side	Facing				Brown
Bockrest Front Seo Bock Front Seo	Backrest Bals	fer	Gobardine Ripple Yeave Cloth	Dk. Green	Dk. Blue	
	Backrest Faci	ing				
	Front Seat	Insert	Gobordine Ripple Yeave Cloth	Ls. Green	Lt. Blue	Ton
	Bock	Lower Cross Bor	Leather Grain Vinyl			
	Front Seat End Panels	Upper	Textured Paint	Dk. Green	Dk. Blue	Brown
		Lower		-		
14	Molding		Bright Metal			
Sidewalls Upper Par	Upper Panel		Leather Grain Vinyl	Dk. Green	Dk. Blue	Brown
	Lower Ponel					
	Center Panel		Ribbed Vinyl	Lt. Green	Lt. Blue	Ton
	Scull Pad				100000	100
Cowl Side K	ick Panels		Composition Board	Dk. Green	Dk. Blue	Brown
Headlining			Plain Napped Clath			
Sunshodes	Covering					Ton
	Binding and C	rip	Leather Grain Vinyl	Lt. Green	Lt. Blue	
Arm	Front and	Upper	The second secon			
Rests	Rear	Lower	Plastic			
Floor	Feest Rear		Rubber	Dk. Green	Dk. Blue	Brown
Coverings						

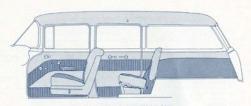


SERIES 2100 CLUB COUPE MODEL 2124

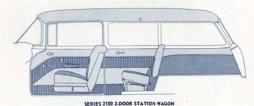


#### INTERIOR COLORS AND FABRICS 2100 SERIES CLUB COUPE

				TRI	M COMBINATI	IONS
	AREA		MATERIAL	Beige and Green	Beige and Blue	Ivery and Black
Seats	Cushion		Leather Grain Elascofab With Saddle Stitching	Green	Blue	Black
	Bockrest Bol	ster	The Section Street, and			
	Cushion Faci	ngs				
	Backrest Facings		Leather Grain Elascofob	Beige	Seige	Ivory
	Front Sect	Insert	Leother Groin Vinyl			
	Bock	Lower Cross Bar	Leather Grain Vinyl			200
	Front Seet	Upper	Textured Point	Green	Blue	Block
	End Panels	Lower				
	Molding		Bright Metal			
Sidewalls	Upper Ponel	Section Cold	Vinyl With Saddle Stitching	Green	Blue	Black
	Center Panel		Embossed Vinyl	Beige	Beige	Ivery
	Scuff Ped		Leather Grain Vinyl	Green	Blue	Black
Cowl Side K	ick Panels	700	Composition Board	Green	Bive	Brack
Headlining			Leather Grain Vinel			
Sunshodes	shodes		Leainer Grain Yinyi	Beige	Belge	Ivery
Arm	Front and	Lower	Plastic			
Rests	Rear	Upper	Leather Grain Vinyl	Time!	1	7
Floor	Front		Corpet	Green	Blue	Block
Covering	Rese		Corper			



SERIES 2100 4-DOOR STATION WAGON MODEL 2109



SERIES 2100 2-DOOR STATION WAGON MODEL 2129





#### INTERIOR COLORS AND FABRICS 2100 SERIES STATION WAGONS

			The state of the s	TRIM	COMBINATI	ONS	
	AREA		MATERIAL	Green	Blue	Brown	
Seats	Cushion and	Bockrost	Ribbed Vinyl	Dk. Green	Blue	Brown	
	Cushion Feel	ngs					
	Backrest Bol	sters	Leather Grain Elascofob	Ls. Green	Beige	Belge	
	Bockrest Foc	ings					
	Front Seat	Insert			4	2	
	Bock	Lower Cross Bor	Leather Grain Vinyl	Dk. Green	Sloe	Brown	
	Front Sout End Panels	Upper	Textured Point			Balan	
		Lower	Texaster Folia	Lt. Green	Beige	Beige	
Molding		Molding	Bright Metal				
Sidewalls	Upper Panel		Leather Grain Vinyl	Lt. Green	Beige	Beige	
	Lower Posel		Leamer Grain Vinyl	Li. Green	Beige	Beige	
	Center Panel		Ribbed Vinel				
	Scuff Pad		Rioses Vinys	Dk. Green	Blue	Brown	
Cowl Side K	ick Ponels		Composition Board				
Headlining			Textured Vinyl	Lt. Green	Beign	Beige	
Sunshades	West .	Manager Land	Textures vinys	En Green	only.	Delige	
Arm	Upper		Leather Grain Vinyl				
Rests	Lower		Plastic	Dk. Green	Blue	Brown	
Floor	Frent		Rubber	J. Green		210411	
Covering	Reor						
	Load Space*		Ribbed Lineleym		Beige		
Wheelhouse Cover Ponels		Textured Point					

Back of rear seat backrest, bottom of cushion and tail gate









SERIES 1500 2-DOOR SEDAN **MODEL 1502** 





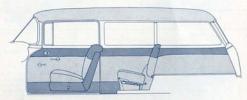


SERIES 1500 UTILITY SEDAN MODEL 1512

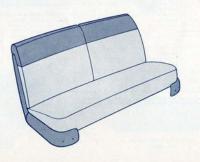
### INTERIOR COLORS AND FABRICS

	AREA		MATERIAL	COLOR	
Seats	Cushien				
	Cushion Facings		Pattern Clath	Light Groy	
	Bockress		r distinction	E-gri Groy	
	Backrest Facing (I	(awer)			
	Balater and Uppe	r Facing	Elescofeb	Block	
	Front Seat	Insert	Pattern Vinyl	Light Gray	
	Bock	Lower Cross Bor	Leather Grain Vinyl		
	Front Seat	Upper	Textured Point		
	End Ponels	Lower		Black	
Sidewells *	Upper Posel				
	Scull Pad		Leather Grain Vinyl		
	Center Ponel		Pattern Vinyl	Light Gray	
Cowl Side Kick P	onels		Composition Board	Block	
Headlining			Plain Napped Cloth		
Sunshade	Covering		Pittin Happen Claim	Light Grey	
	Binding		Leather Grain Vinyl		
Floor	Front		Rubber	Black	
Covering	Rear		N.V.	and a	

Utility Sedon load space, sidewalls, and back partition are of black textured composition board; black textured point is used on the wheelhouses.



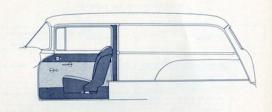
SERIES 1500 STATION WAGON MODEL 1529



# INTERIOR COLORS AND FABRICS

			MATERIAL	TRIM CO	MBINATIONS	
	AREA		MATERIAL	Brown	Green	
Seors	Cushion and Ba	ckrest		1775		
	Cushisa Feeing		Linked Cord Pattern Vinyl	Beige	Dark Green	
	Backress Facin	g (lower)			Light Green	
	Bolster		Elascolah	Brown		
	Backrest Facing (upper)		Fintenes	0,000		
	Front Seat	Insert	Linked Cord Pattern Vinyl	Beige	Dark Green	
	Bock	Lower Cross Box	Leather Grain Vinyl			
	Front Seat	Upper	Textured Point	Brown	Light Green	
	End Panels	Lower				
Sidewells	Upper Posel		Leather Grain Vinyl	Brown	Light Green	
	Scuff Ped		Ceaser Grain Vinys	Ulown.		
	Center Panel		Linked Cord Pattern Vinyl	Beige	Dark Green	
Cowl Side Kie	k Panels		Composition Board	Brown	Dat Green	
Headlining and	I Sunshode		Leather Grain Vinyl	Beige	Light Green	
Floor	Front Rear		Rubber		last	
Covering			NO.	Black		
	Load Space *		Ribbed Linoleum			
Wheelhouse Cover Ponels		Textured Point	Beige			

<sup>\*</sup> Back of rear sear backrest, bottom of cushion and tail gate.



SERIES 1500 SEDAN DELIVERY MODEL 1508



### INTERIOR COLORS AND FABRICS SEDAN DELIVERY

	AREA	MATERIAL	COLOR	
Seors	Cushion and Seat Back	Textured Vinyl	Beige	
	Seat Back Posel			
	Seat Back Facing			
	Cushion Focing	Leather Grain Vinyl	Brown	
Sidewells	Upper Panel			
	Sculf Pad			
	Center Panel	Textured Vinyl	Beige	
Cowl Side Kick Pon	els	Composition Board	Brown	
Headlining and Suns	hade	Leather Grain Vinyl	Beige	
Floor	Front	Rubber	Rlark	
Covering	Reor	Paint	Units	
Lood	Upper Panel	Fiber Board		
Compartment	Lower Ponel	7.00	Dark Beige	
Company	Wheelhouse	Palet	Dark Beige	
	Rear Dear	of the last of the		

### INDEX

A .	E
Accelerator linkage	Emblem, hood21
Air cleaner and silencer	Emblem, V
AIR CONDITIONING	Engine mounting system
APPENDIX	Engine, Powerglide143
Attachment, bumper	ENGINE, V-8
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