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## 1954 CORVETTE

Production: 3,640 roadsters

### 1954 NUMBERS

Vehicle: E54S001001 through E54S004640

**Suffix:** YG: 235ci, 150hp, 155hp **Block:** 3835911: 235ci, 150hp, 155hp **Head:** 3836241: 235ci, 150hp, 155hp

Carburetor: Carter 2066SA #3706989: 235ci, 150hp, 155hp

Distributor: 1112314: 235ci, 150hp, 155hp

Starter: 1107109: 235ci, 150hp, 155hp (early two-coil design) 1108035: 235ci, 150hp, 155hp (later four-coil design)

Ending Vehicle: Dec 53: 001014

Abbreviations: ci=cubic inch, hp=horsepower

### **1954 FACTS**

- Chevrolet started production of 1954 Corvettes in a renovated St. Louis assembly plant in December 1953. The plant was designed to build 10,000 Corvettes annually. Demand was misjudged, as it would be six years (1960) before Corvette exceeded 10,000 in annual sales.
- The Blue Flame Six engines used in all 1954 Corvettes had a power rating of either 150hp or 155hp. The extra horsepower resulted from a camshaft design change made during 1954 production. Externally, the engines looked the same, but the more powerful version can be detected by inspecting the camshaft. Later camshafts had three dots between the fifth and sixth inlet cam lobes.
- Early production 1954 models had two interior hood releases. Later models had a single interior release to activate both hood latches.
- The window storage bag for the 1954 was color-keyed to the car's interior. The design was more square than the 1953. The 1954 type also had a strap to permit anchoring to the forward vertical trunk partition panel.
- The 1954 valve cover was similar to the redesigned 1954 Chevrolet passenger car's cover. Both were attached to the head by stovebolts around the perimeter. The 1954 Corvette's valve cover was either chrome plated or painted engine enamel blue. "Blue Flame" and "150" decals, reading from the passenger side, were affixed to the painted covers.
- Early 1954s had the "bullet" air inlets common to the 1953 model. But 1954s later than #002906 had a dual "pot" apparatus, intended in part to reduce the possibility of engine fires.
- All 1954 Corvettes had six-volt electrical systems.
- Early 1954 Corvettes had short exhaust extensions. Models later than #002523 had longer extensions with built-in baffles. Both styles were originally stainless steel.
- Ignition shielding consisted of upper and lower stamped metal shields, either painted or chromed. Most 1954 Corvettes appear now with both shields painted or both shields chromed, but the factory did not necessarily match the shields on individual cars.
- The 1954 starters had four field coils, except for very early models which had a two-coil style.
- The road draft tube in 1954 models had an "X" stamped in the top surface for rigidity. Most 1953 tubes were smooth.
- The 1954's radiator surge tank, except for very early, had two stamped radial rigidity bands formed in the tank. All were chrome plated.
- The 1954's brake and fuel lines were routed inboard of the frame members, except for very early models.
- The 1954 carburetor linkage was a fabricated, three-piece link.



### 1954 OPTIONS

CODE	DESCRIPTION		RETAIL \$
2934	Base Corvette Convertible	3,640	\$2,774.00
100	Directional Signal	3,640	16.75
101	Heater	3,640	91.40
102	AM Radio, signal seeking	3,640	145.15
290B	Whitewall Tires, 6.70x15	3,640	26.90
313M	Powerglide Automatic Transmission	3,640	178.35
420A	Parking Brake Alarm		5.65
421A	Courtesy Lights		4.05
422A	Windshield Washer		11.85

- A 235ci, 150hp (or 155hp) engine, vinyl interior trim, and soft top were included in the base price.
- Prices included federal excise taxes. Local taxes and dealer charges were not included. Prices were effective October 28, 1954. Initial 1954 pricing was the same as 1953. Prices were suggested by Chevrolet and original customer sales records indicate that the actual prices charged by dealers varied both high and low.
- By listing the Powerglide automatic transmission as an option, the option list implies that a manual transmission was standard equipment. Not true.
   All 1954 Corvettes had the "optional" Powerglide automatic transmission; in fact, it is nearly certain that all 1954s were built with all options.
- The 1954 signal-seeking AM radio was the same as 1953's, except all but early 1954 radios had 640-kilocycle and 1240-kilocycle Conelrad national defense emergency markings.
- Auxiliary hardtops were not available for 1954 models as factory options or as Chevrolet-sponsored dealer accessories. However, aftermarket companies manufactured removable hardtops for 1954 (and 1953, 1955)
   Corvettes and some Chevrolet dealers sold them.
- The 1954 heater was not a fresh air type; that is, it recirculated interior cockpit air only.
- All 1954s were built with windshield washer systems. They were vacuum-operated, activated by a button on the windshield wiper switch.
- Tires were changed during 1954 production from tube-type to tubeless. Because different manufacturers supplied tires, it is probable that both types were used simultaneously for some time period.

### 1954 COLORS

EXTERIOR	QTY(est)	SOFT TOP	WHEELS	INTERIOR
Polo White	3,230 ^	Beige	Red	Red
Pennant Blue		Beige	Red	Beige
Sportsman Red	100	Beige	Red	Red
Black		Beige	Red	Red

- Exterior color quantities are not from Chevrolet records. These are estimates based on surveys, theories, and other data. They should not be relied upon as precise quantities.
- Suggested interiors shown. Other combinations were possible.
- Interiors and exteriors were not coded to individual cars. The Polo White, Pennant Blue, Sportsman Red, and Black exteriors are those known to have been used during 1954 production.
- Based on original owner reports, there is a reasonable probability that some 1954 Corvettes were painted exterior colors other than Polo White, Pennant Blue, Sportsman Red or Black. Possibilities include, but are not limited to, Metallic Green and Metallic Bronze. Paint vendor documentation confirms the intent to offer additional colors, but production records have not surfaced to positively confirm actual build.
- All 1954 Corvette soft tops were specified to be beige canvas with top bows painted to match, and it is believed all were. However, the owner of a very late 1954 (eight units from the end of production) has reported that based on old home movies, his car appeared to have a white top when purchased new in 1954.



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1953-1993

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### **CORVETTE - Supplement**

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SERIAL NUMBERS	Interior Finish:
WEILO, F. CHRIAI MILLER	Upper Instrument Panel, Steering Column, Steering
VEHICLE SERIAL NUMBER  Same as standard production except series designation	Wheel Hub and Spoke and Directional Signal Housing Standard Red
is "E" and assembly plant is "S" for St. Louis.	Optional
Thus E 54S 001001 is the first unit.	Lower Instrument Panel and Door Trim Moulding
TRANSMISSION SERIAL NUMBER	Standard White
Same as Powerglide transmission as shown on page 9	OptionalPennant Blue Steering Wheel Rim
ENGINE SERIAL NUMBER Type designation is "YG"	Standard White
REAR AXLE SERIAL NUMBER	Optional White
Type designation is "W" and unit is built at Detroit	Interior Trim:
Gear and Axle Plant.	Seats and Door Panels and Cowl Kick Panels
	Standard Red with White stitching Optional Beige with White stitching
DIMENSIONS	Floor Covering
Wheelbase 102	StandardRed
Tread, Front 57	Optional Beige
Rear 59	EQUIPMENT
	Arm Rest Both Doors
VEHICLE WEIGHTS	Stowage CompartmentBoth Doors
Shipping2705	Top Folding,
Curb2850	manually operated and stowed in top well at rear
Loaded	of driver and passenger seats.  Door Windows
Radio (Not included in above weights) 18.36	including ventipanes. Window frame snaps into elots in top of doors. When not in use the side windows
FRAME	are stored in the luggage compartment.  Luggage Compartment Rear Deck;
Make Own	Operated by key with counterbalanced lid. Spare
TypeBox girder	tire stowed below floor.
Maximum overall length139.28	Hood Hinged at front
Maximum overall width (over side members) 43.24 Material	with release inside of cockpit. Supported in open position by manually operated support arm.
Material yield point33000 lb/sq. in.	Headlights Recessed
Material elongation25% min in 2 inches	into front fenders behind mesh grille.
Side member section modulus (in.3)1.677	Charle Captilla
Moment of inertia (in. 4) 4, 930 Construction:	FRONT SPRINGS  Make and Type Own, coil
Side members Box Section,	Material and GaugeChrome Alloy Steel; .547550
each composed of two full length channel sections	Number of Coils Total, 9.75; Active, 7.94
welded together.	Diameters Outside 4. 30; Pitch 3. 752
Front Suspension Cross MemberFormed,	Height
flanged, semi-tubular section with flat steel bottom plate welded to flanges across diametrical width	Capacity at Ground 800 lb
of section.	Deflection Rate:
Shock Absorber Upper Mounting Cross Member	At Spring 300 lb/in.
Dans Const. M. and D. S. a	At Wheel110 lb/in.
Bear Cross Member	REAR SPRINGS
in bottom plate.	Make and TypeOwn, Semi-elliptic
Center "X" Member Composed of	Material Chrome Carbon Steel
I-beam sections attached to side members at the	Length and Width 51 x 2
end of each leg of the "X". Also attached to for- ward section of side members by long angular braces	Spring Clips 4; 3 clinch type; 1 bolt type Spring Covers None
from the front legs of the "X".	Number of Leaves4, embossed for full length liners
	Thickness of Leaves1, 3 & 4, .282; 2, .313
	Average Design Load at Camber Height545-605 lb
EXTERIOR-INTERIOR COLORS & EQUIPMENT  Exterior Color:	Camber Height at Design Load 1.58 neg Average Rate of Deflection115 lb/in.
Standard Polo White	Spring Liners3, Wax impregnated fibre board
OptionalPennant Blue	
TopBeige	'REAR AXLE
WheelsRed	Same as Powerglide except Hotchkiss Drive.
4-12-54 CHEVEN ET 1064 SEECHELCATIONS - PASSENGER	CORVETTE CONVERTIBLE (MODEL 2934) .53

CHEVROLET 1954 SPECIFICATIONS - PASSENGER

CORVETTE CONVERTIBLE (MODEL 2934) -53

### **CORVETTE - SUPPLEMENT**

CORVETTE -	SOFFICIENT	
ENGINE  The Corvette engine is basically the same as the Blue Flame-125 passenger car engine, with the following exceptions and characteristics.  Tappets	FUEL SYSTEM  Fuel TankTwo stamped pans, seam welded Capacity	
Compression Ratio 8. 0:1	mari after everem	
	TypeDual	
ADVERTISED MAXIMUM ENGINE PERFORMANCE Gross Horsepower	MufflerTwo Type Diffusion and resonance, reverse flow Size	
ADVERTISED CAR PERFORMANCE Based on curb weight plus 300 lbs for 2 passengers Performance weight	Both exhaust and tail pipes are welded or seamless steel tubing whose diameters are 1.75 OD and 1.65 ID.	
Gross horsepower/cu. in. displacement	COOLING SYSTEM Capacity	
CARBURETOR  Number Used	Pressure Cap4 pound, located in aux tank Auxiliary water supply tank	
AIR INLET	,	
Number Used Three (one for each carburetor)	RADIATOR HOSES	
TypeChrome plated metal housing with screen covered openings.	Function Inlet Outlet Supply Tank	
	Material Fabric reinforced rubber	
	Location Cyl head to Radiator to Aux tank	
ELECTRICAL EQUIPMENT	Radiator Water bump to Radiator	
Generator Delco-Remy 1102793  Voltage and Current Regulator	Compound	
Delco-Remy 1118827	Shape Curve Elbow Straight	
Distributor1112314	1.D. 1-1/4 1-1/2 1-1/2 Length 12-1/2 ( 10-1/2	
Spark Plugs	(Developed) 12-1/2 Approx 6-3/4 Each Approx	
	STEERING	
TRANSMISSION	Steering Gear Ratio16:1	
Same as Powerglide except that the selector lever is mounted in floor at right side of driver.	Steering Wheel Diameter17-1/4 Turning Diameters: Right-Wall to Wall 38.58 Left-Wall to Wall 38.99	
DRIVE LINE	Right-Curb to Curb	

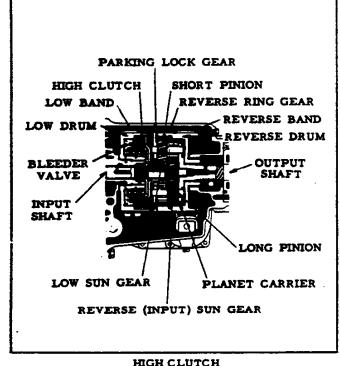
Joint at both ends.

Left-Curb to Curb -----36. 93

Toe In ----- 0-1/8

Hotchkiss drive with one propeller shaft with a U-

### **AUTOMATIC TRANSMISSION OPTION—Supplement**



Type	 Multiple-disc
Discs:	

Driving; number and type -----Four, steel with cork and paper facings, bonded Driven, number and type ----- Five, steel Drum:

Material	Cast iron
OD	5. 867-5. 872
Pressure relief valve:	

### Location ------ In front face of clutch piston

Type -----3/16 ball Hub: Material ------ Stamped steel

### Splines ----- Internal, 19 teeth

Discs:

Flange: Material ----- Stamped steel Splines ----- Internal, 23 teeth

### Spring:

Type and I D ----- Coil, 2,750-2.800 Length and pressure ------Approximately 3-49/64 (free), 1-23/64 at 181 lb, 1-7/32 at 191 lb

Piston type and material -----------Annular, aluminum alloy die casting

Size -----4.748-4.752 O D, 2.498-2.500 I D

### Low brake band:

Material ------ High tensile spring steel Lining ----- Molded metallic, bonded and grooved

### HYDRAULIC CONTROLS

Oil intake scr	een: Type Double
screen; out	er - 60 x 40 mesh, inner 8 mesh
Location	Transmission housing oil sump.
Oil pumps: T	ype gear
Location:	-
Front	In rear of transmission housing
<b>5</b>	to some of transmission case

Rear ------In rear of transmission case Number of teeth:

Front -----31 internal, 25 external

Rear ------25 internal, 20 external Transmission rear bearing:

Make ----- New Departure Type ----- 3205, single row ball

Main valve body: Material ------ Cast iron Location ----Bolted to rear of transmission housing

Manual valve:

Material ----- Hardened steel Type ----- Spool Operated by ----- Selector lever through linkage Check valve:

Materal ----- Flat spring steel Type -----Two passage check, hairpin shaped

Pressure regulator valve:

Type ----- Spool Pressure range: Automatic cruising ----- 50 to 165 PSI

Automatic low ------50 to 165 PSI Reverse ------165 to 200 PSI Netural -----50 to 165 PSI Park ----- 0 PSI

Modulator:

Location ------ Servo cover, right side Type ----- Vacuum and hydraulic

Low band servo:

Type ------Piston, one release spring Adjustment ----- Threaded anchor bolt Reverse band servo:

Type ----- Piston with release spring and inner cushioning spring Adjustment ------ Threaded anchor bolt

Thermostatic by-pass valve:

Location -----Servo cover By-pass closes ------210°-240° F Tentative to the incorporation of Corvette specifications into the regular passenger car section of this book, we have in the following pages endeavored to list the pertinent data peculiar to the Corvette model.

