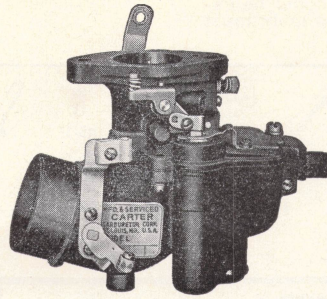


MODELS
3700 - 3900 - 5000



CHEVROLET
CAB-OVER-ENGINE TRUCK &
FORWARD CONTROL
DELIVERY
1950

BB UP-DRAFT CARBURETOR — No. 745S — LIST PRICE \$15.00

A \$2.00 exchange allowance is deducted from the list price if buyer turns in old carburetor.

CARBURETOR SPECIFICATIONS

For Chevrolet Six-Cylinder Engine: 3-9/16 Inch Bore, 3-15/16 Inch Stroke

Dimensions: Flange size, 1 1/2 inch (38.10 mm).

Throttle bore, 1-9/16 inch (39.69 mm).

Main venturi, 1-3/16 inch I. D. (30.16 mm).

Air bleed through venturi, to idle passage .0886 to .0906 inch diameter (2.25 to 2.30 mm) drill.

Float Setting: Top of float .0 to 1/32 inch (.0 to .79 mm) below top of surface of lower body.

Balance Vent Tube: Inside diameter, 7/32 inch (5.56 mm).

Gasoline Intake Needle: Triangular, horizontal. No. 38 (2.58 mm) drill in needle seat.

Idle Jet Tube: Jet size. 031 inch (.0785 mm) drill.

Idle Ports: Lower port size; .062 to .064 inch (1.58 to 1.63 mm) diameter. Top of port located .005 to .009 inch (.13 to .23 mm) below lower edge of valve. Upper port size: .053 to .057 inch (1.35 to 1.45 mm) diameter (for idle adjustment screw).

Set Idle Adjustment Screw: 1/2 to 1 1/2 turns open. For richer mixture, turn screw out. Do not idle engine below 450 r.p.m.

Main Metering Screw: Calibrated to flow 339 to 343 cc per minute. (Do not gauge for size. If in doubt, replace with new part.)

Nozzle: Angle 24°. Inside diameter (Discharge Jet size) .148-.150 inch (3.76-3.81 mm).

Accelerating Jets: 2—.038 inch (.97 mm) drill 3/8 inch (9.525 mm) from shoulder.

2—.038 inch (.97 mm) drill 23/32 inch (18.256 mm) from shoulder.

2—.055 inch (1.40 mm) drill 1-1/16 inch (26.99 mm) from shoulder.

Air Bleed to Nozzle: (Vent tube) Size, .052 inch (1.32 mm) drill.

Step-Up Jet: (Power Orifice) Size, .0394 inch (1.00 mm) drill.

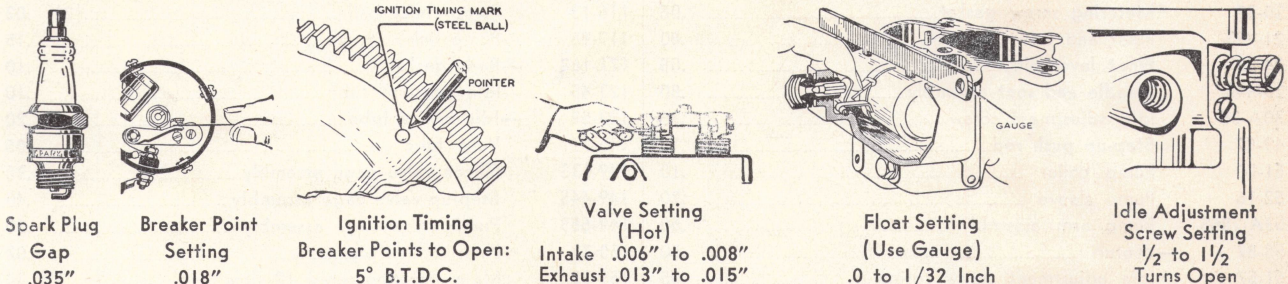
Accelerating Pump: Type, low pressure, delayed action. Stroke: Summer setting, inner hole, short stroke 9/16 inch (14.29 mm). Winter setting (outer hole, long stroke) 1 inch (25.40 mm). Pump intake ball check: Size .125 inch (3.175 mm). Pump discharge retainer (in pump valve cage assembly) .0635 inch diameter (1.615 mm) drill size.

Choke: Manual—butterfly type, with pressure relief poppet valve.

Vacuum Spark Port: Slot type, .041 x .125 inch (1.041 x 3.175 mm). Top of port .000 to .004 inch (.0 to .1016 mm) below valve.

Motor Tune-Up—Be Accurate! Always Use Feeler Gauges!

CAUTION: Change worn or leaky flange gaskets. Tighten manifold bolts and test compression before adjusting carburetor.



Spark Plug
Gap
.035"

Breaker Point
Setting
.018"

Ignition Timing
Breaker Points to Open:
5° B.T.D.C.

Valve Setting
(Hot)
Intake .006" to .008"
Exhaust .013" to .015"

Float Setting
(Use Gauge)
0 to 1/32 Inch

Idle Adjustment
Screw Setting
1/2 to 1 1/2
Turns Open

CARBURETOR ADJUSTMENTS

To Secure a Good Idle: Set throttle lever adjusting screw so motor runs approximately 450 rpm. Then set idle adjustment screw so motor fires evenly. Correct setting will be found between 1/2 and 1 1/2 turns open. A richer mixture is obtained by backing out adjustment screw—a leaner mixture by turning screw in. If motor stalls while idling, remove idle passage tube and idle jet tube and clean with compressed air.

To Improve Acceleration: Examine pump link setting: For winter driving, link screw should be set in outer hole, giving long stroke; for hot weather, in high altitudes, pump link

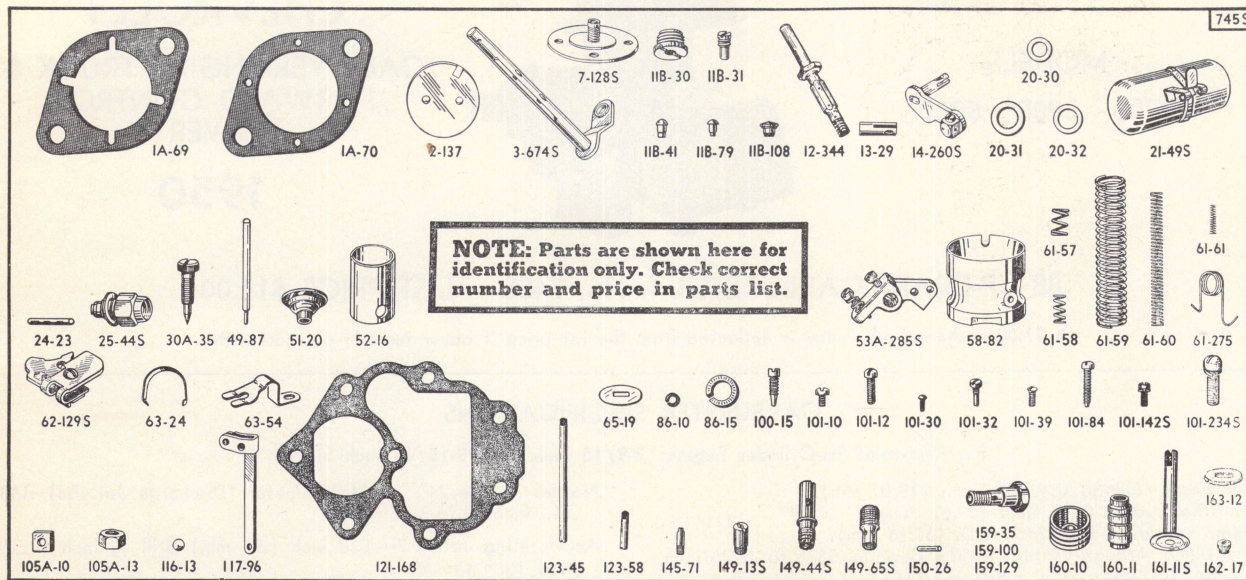
should be connected in inner hole, giving short stroke. If this does not give desired results, the main metering jet, pump metering jet, check valve assembly and pump valve assembly should be removed and cleaned with compressed air.

If Motor Loads—Check Float Level: Wear on lip of float lever will raise float level from factory setting, causing carburetor to load up. To lower float level, bend lip of float lever toward needle. To raise float level, bend lip away from needle. A very slight bend is sufficient. Be sure to bend lip of float, not bracket.

EFFECTIVE JANUARY 1, 1948, ADD 30% TO LIST PRICE OF CARBURETERS AND EFFECTIVE OCTOBER 1, 1948, ADD 20% TO ALL OTHER PRICES SHOWN WITH FRACTIONAL ADJUSTMENT TO NEAREST EVEN CENT.

- Economy:** (a) Maximum economy is secured only when breaker points, spark plugs, valves and motor timing are set to manufacturer's specifications.
 (b) Float level must be set as instructed above.
 (c) Step-up valve cage assembly should be examined. Ball check in this assembly must

- seat and move freely. When reassembling, valve cage must be screwed in tight against seat.
 (d) Step-up push rod must move freely in upper and lower guides.
 (e) Step-up piston in upper casting should not bind and must be free from dirt.



Chevrolet Six Truck—1950—Carbureter 745S—List Price \$15.00

WHEN SERVICING, USE GASKET ASSORTMENT No. 202, PRICE \$0.40; REPAIR PKG. No. 1539, PRICE \$3.10

PART NAMES IN BOLD TYPE, LISTED BELOW, INDICATE CONTENTS OF REPAIR PACKAGE

Part No.	PART NAME	List Price	Part No.	PART NAME	List Price
1A-69	Flange gasket (for use without governor)	\$.10	63-54	Packing retainer	.10
1A-70	Flange gasket (for use with governor)	.10	65-19	Pump link cover plate (2)	.02
2-137	Throttle valve	.20	86-10	Lock washer	.01
3-674S	Throttle shaft and lever assembly	.60	86-15	Flange stud lock washer (2)	.01
7-128S	Choke valve assembly	.50	100-15	Pump arm set screw	.05
11B-30	Step-up piston plug	.10	101-10	Wire clamp screw	.05
11B-31	Idle port plug	.10	101-12	Choke bracket clamp screw	.05
11B-41	Rivet plug (2)	.02	101-30	Choke valve attaching screw (2)	.05
11B-79	Rivet plug	.02	101-32	Pump link screw	.05
11B-108	Idle port rivet plug	.02	101-39	Throttle valve screw (2) 2 for	.05
12-344	Nozzle	.60	101-84	Throttle lever adjusting screw	.05
13-29	Choke shaft stub	.15	101-142S	Attaching screw and washer assembly (3)	.05
14-260S	Choke shaft and lever assembly	.40	101-234S	Body attaching screw and washer assy. (6)	.05
20-30	Nozzle gasket	.05	105A-10	Choke bracket clamp nut	.05
20-31	*Needle seat gasket	.05	105A-13	Flange nut (2)	.05
20-32	*Metering screw gasket	.05	116-13	Pump check ball (2)	.02
21-49S	Float and lever assembly	.80	117-96	Pump link	.15
24-23	Float lever pin	.05	121-168	Body gasket	.10
25-44S	Needle and seat assembly	.80	123-45	Idle passage tube	.10
30A-35	Idle adjustment screw	.30	123-58	Idle orifice tube	.20
49-87	Step-up push rod	.10	145-71	Vent tube	.05
51-20	Pump collar	.10	149-13S	Check valve cage assembly	.30
52-16	Pump sleeve	.20	149-44S	Step-up valve cage assembly	.40
53A-285S	Pump arm assembly	.60	149-65S	Pump valve cage assembly	.30
58-82	Venturi	.50	150-26	Pump collar pin	.02
61-57	Idle adjustment screw spring	.05	159-35	Main metering screw (2 sizes lean)	.30
61-58	Throttle lever adjusting screw spring	.05	159-99	Main metering screw (1 size rich)	.30
61-59	Pump spring	.10	159-100	Main metering screw	.30
61-60	Step-up piston spring	.05	159-129	Main metering screw (1 size lean)	.30
61-61	Step-up valve spring	.05	160-10	Pump piston	.40
61-275	Choke pull-back spring	.10	160-11	Step-up piston	.20
62-129S	Choke tube bracket assembly	.25	161-11S	Pump rod plate and rod assembly	.30
63-24	Float lever pin retainer	.05	162-17	Power orifice	.10
			163-12	Felt packing	.05

—Parts so marked are new and listed for the first time.

*Gaskets so marked must be soaked in 90 proof denatured alcohol for 15 minutes, installed on part and let dry before using.

NOTE: Small figures in parentheses preceding list price indicate number of pieces used in one carbureter. Where no figure is shown, only one is used.