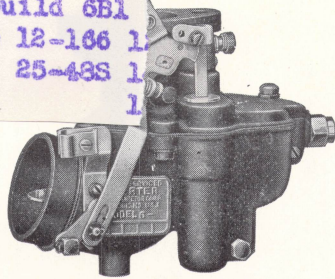


Rebuild 6B1  
Use 12-106 1  
25-48S 1  
1



Model 6-B and 6-B1

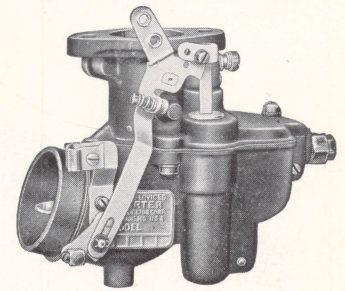
## DE SOTO SIX "SC"—1932

Carburetors 6-B—6-B1—6-B2

List Price \$12.00

For De Soto 6-cylinder engine:  
3/4 inch bore, 4/4 inch stroke

(Refer to inspection tag on carburetor as specifications vary in important respects)



Model 6-B2

Model 6-B2 on Car No. 5050307, Motor No. 17543 and Higher Nos.

### CARBURETOR SPECIFICATIONS

**Dimensions:** Flange size, 1 1/4 in. Throttle bore, 1-7/16 in.

**Float Setting:** Top of float flush to 1/32 in. (.0 to .80 mm) below top surface of lower body.

**Vent:** (To float chamber) Outside: No. 30 (3.26 mm) drill size.

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

**Idle Orifice Tube:** Jet size: 6-B—6-B1, .0256 to .0275 in. (.65 to .70 mm) drill; 6-B2, .024 in. (.60 mm) drill.

**Air bleed through venturi, to idle passage, .085 to .087 in. dia. (2.15 to 2.20 mm) drill.**

**Idle Ports:** Lower port size: .062 to .064 in. (1.6 mm) dia. Top of port located .005 to .009 in. (.2 mm) below lower edge of valve.

Upper port size: .053 to .057 in. (1.35-1.45 mm) dia. (for idle adjustment screw).

**Set Idle Adjustment Screw:** 1/4 to 1 turn open. For richer mixture turn screw out. Do not idle engine below 300 rpm. or 6 miles per hour.

**Main Metering Screw:** Calibrated to flow 222 C. C. per min. (Do not gauge for size. If in doubt, replace with new part.)

**Nozzle:** Models 6-B—6-B1, No. 30 (3.26 mm) drill size.

**Accelerating Jets:**

2—.0394 in. (1.00 mm) drill 1/16 in. (1.59 mm) from shoulder.

1—.051 in. (1.3 mm) drill 3/8 in. (9.53 mm) from shoulder.

1—.051 in. (1.3 mm) drill 23/32 in. (18.26 mm) from shoulder.

1—.051 in. (1.3 mm) drill 1-1/16 in. (26.99 mm) from shoulder.

**Nozzle:** Model 6-B2, No. 33 (2.87 mm) drill size.

**Accelerating Jets:**

2—.0394 in. (1.00 mm) drill 1/16 in. (1.59 mm) from shoulder.

1—.051 in. (1.3 mm) drill 3/8 in. (9.53 mm) from shoulder.

1—.063 in. (1.6 mm) drill 23/32 in. (18.26 mm) from shoulder.

1—.051 in. (1.3 mm) drill 1-1/16 in. (26.99 mm) from shoulder.

**Air Bleed to Nozzle:** Size: .0275 in. (.70 mm) drill.

**Step-up Jet:** (Power orifice) 6-B—6-B1: .023 in. (.60 mm) drill size; 6-B2, .032 in. (.80 mm).

**Main venturi, I in. I. D.**

**Accelerating Pump:** Type, low pressure, delayed action.

Stroke: Summer setting (inner hole, short stroke) 9/16 in. (14.25 mm). Winter setting (outer hole, long stroke) 1 in. (25.25 mm).

Pump intake ball check; size 1/8 in. (3.2 mm).

Pump (discharge) metering screw: Jet size No. 52 (1.6 mm) drill (6-B—6-B1).

Model 6-B2 has pump discharge jet in pump valve cage assembly (no pump metering screw).

### VIEWING CARBURETOR FROM SIDE OPPOSITE AIR INTAKE

**Choker:** Butterfly type, with compensating air valve. Lever on left side.

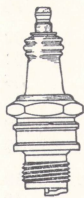
**Throttle Lever:** Adjusting—On left side length 1 1/2 in. (38.1 mm) when open, points up.

**Tube Clamp:** On air intake.

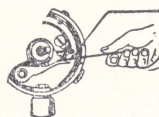
### MOTOR TUNE-UP—DE SOTO

Be Accurate! Always Use Feeler Gauges!

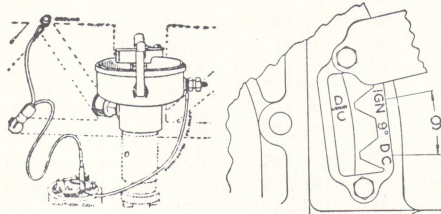
Caution: Change worn or leaky flange gaskets. Tighten manifold bolts and test compression before adjusting carburetor.



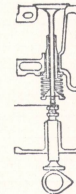
Spark Plug Gap  
.025"



Set Breaker Points  
.020"

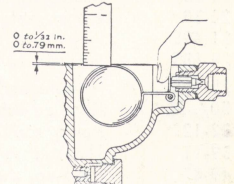


Use Timing Light—Time by Flywheel Mark  
Breaker Points to Start to Separate 9° Before  
Top Dead Center with Spark Fully Advanced



Valve Clearance  
With Motor at  
Normal Operating  
Temperature  
(Hot)

Set Valves  
Intake .005"  
Exhaust .007"



Correct Float Level  
Flush with to 1/32"  
below edge of Casting  
(Remove Gasket)

### CARBURETOR ADJUSTMENTS

**To Secure a Good Idle:** Set throttle lever adjusting screw so motor runs approximately 300 rpm. Then set idle adjustment screw so motor fires evenly. Correct setting will be found between 1/4 and 1 turn 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.

**Economy:** (a) Maximum economy is secured only when breaker points, spark plugs, valves and motor timing are set to manufacturer's specifications.

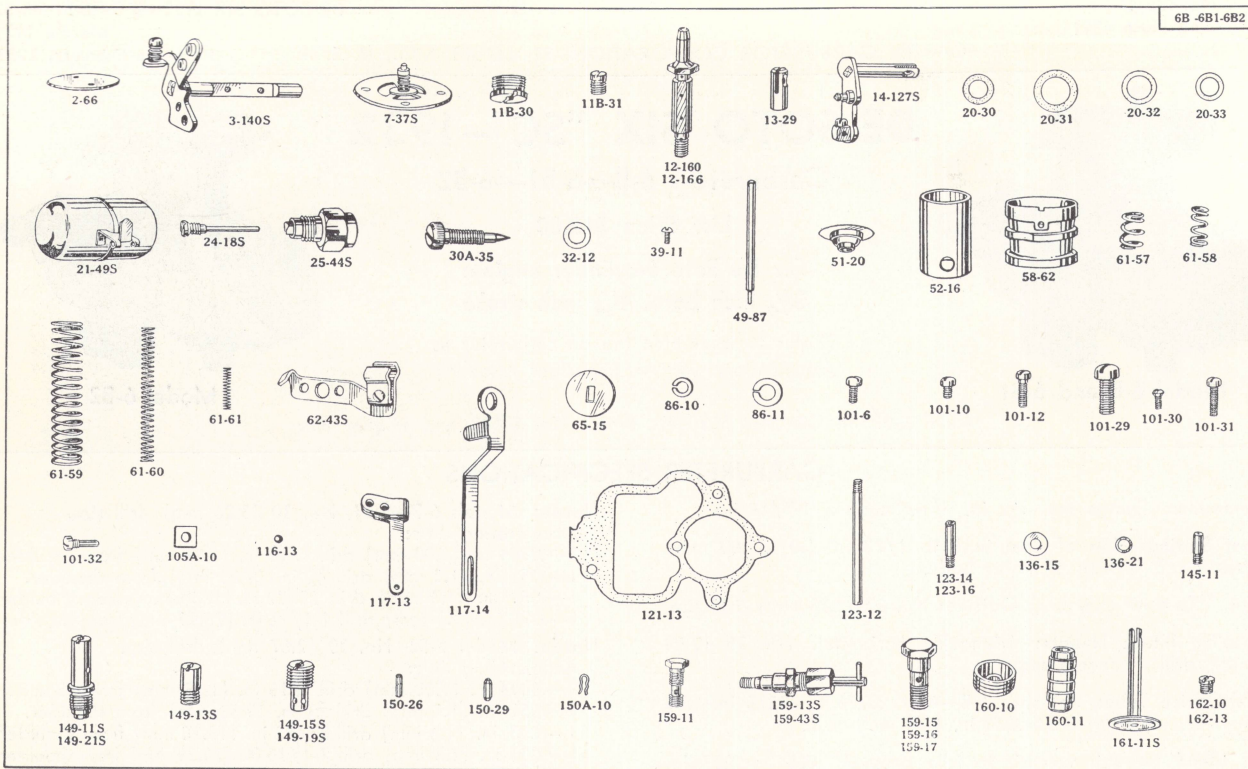
(b) Float level must be set as instructed above.

(c) Step-up valve cage assembly should be examined. Ball check in this assembly must seat and move freely. When re-assembling 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.





**De Soto Six "SC" 1932—Models 6-B—6-B1—6-B2—List Price \$12.00**

WHEN SERVICING 6-B—6-B2, USE GASKET ASSORTMENT No. 104—LIST PRICE \$0.30

WHEN SERVICING 6-B1, USE GASKET ASSORTMENT No. 104—LIST PRICE \$0.30

**PARTS PRICE LIST**

Part No.	NAME	List Price	Part No.	NAME	List Price
2-66	Throttle valve .....	\$0.20	101-10	Wire clamp screw.....	.05
3-140S	Throttle shaft and lever assembly.....	.60	101-12	Choke tube clamp screw.....	.05
7-37S	Choker valve assembly.....	.50	101-29	Body attaching screw.....	.05
11B-12	Rivet plug .....	.02	101-30	Choke valve screw.....	.05
11B-26	Rivet plug .....	.02	101-31	Throttle lever adjusting screw.....	.05
11B-30	Step-up piston plug.....	.10	101-32	Pump link screw.....	.05
11B-31	Idle hole plug.....	.10	105A-10	Choke tube clamp nut.....	.05
12-160	Nozzle, 6-B—6-B1 .....	.60	116-13	Step-up ball .....	.02
12-166	Nozzle, 6-B2 .....	.60	117-13	Pump link .....	.15
13-29	Choker shaft (stub).....	.15	117-14	Choker link .....	.10
14-127S	Choker assembly with clamp and screw.....	.40	121-13	Body gasket .....	.10
20-30	Nozzle gasket .....	.05	123-12	Idle passage tube.....	.10
20-31	Needle seat gasket.....	.05	123-14	Idle orifice tube, 6-B—6-B1.....	.20
20-32	Metering screw gasket.....	.05	123-16	Idle orifice tube, 6-B2.....	.20
20-33	Pump metering screw gasket, 6-B—6-B1.....	.05	136-15	Choker link washer.....	.02
21-49S	Float and lever assembly.....	.80	136-21	Plug washer .....	.01
24-18S	Float lever pin and plug assembly.....	.10	145-11	Vent tube .....	.05
25-44S	Needle and seat assembly.....	.80	149-11S	Step-up valve assembly, 6-B—6-B1.....	.40
30A-35	Idle adjustment screw.....	.30	149-13S	Check valve assembly.....	.30
32-12	Pump rod gasket.....	.05	149-15S	Pump valve assembly, 6-B—6-B1.....	.30
39-11	Throttle valve screw.....	.2 for .05	149-19S	Pump valve assembly, 6-B2.....	.30
49-87	Step-up push rod .....	.10	149-21S	Step-up valve assembly, 6-B2.....	.40
51-20	Pump collar .....	.10	150-26	Pump collar pin.....	.02
52-16	Pump sleeve .....	.20	150-29	Venturi pin .....	.02
58-62	Venturi .....	.40	150A-10	Pin spring .....	.01
61-57	Idle adjustment screw spring.....	.05	159-11	Pump metering screw, 6-B—6-B1.....	.20
61-58	Throttle lever adjusting screw spring.....	.05	159-15	Main metering screw (standard).....	.30
61-59	Pump spring .....	.10	159-16	Main metering screw, one size lean.....	.30
61-60	Step-up piston spring.....	.05	159-17	Main metering screw, two sizes lean.....	.30
61-61	Step-up spring .....	.05	160-10	Pump piston .....	.40
62-43S	Choke tube bracket assembly.....	.25	160-11	Set-up piston .....	.20
65-15	Pump link cover plate.....	.02	161-11S	Pump rod plate and rod assembly.....	.30
86-10	Tube clamp screw lock washer.....	.01	162-10	Step-up jet (power orifice), 6-B—6-B1.....	.10
86-11	Body screw lock washer.....	.01	162-13	Step-up jet (power orifice), 6-B2.....	.10
101-6	Choke bracket attaching screw.....	.05			

List price of \$3.00 per 100 applies to parts listed at \$0.05 each.  
List price of \$1.75 per 100 applies to parts listed at \$0.03 each.

List price of \$1.25 per 100 applies to parts listed at \$0.02 each.  
List price of \$0.50 per 100 applies to parts listed at \$0.01 each.