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Form 4807C Form 9723—Export Carbs. 728S-728SA — Packard Eight 1949-50

Change parts list as follows:

25-165S Needle and seat assembly (Sup. by 25-186S)

Add to parts list the following:

25-186S Needle and seat assembly .80

75-721 Metering rod—1 size lean (728SA) (2)

75-722 Metering rod—2 sizes lean

(728SA) (2)



Casting No. 615 on face of flange

PACKARD EIGHT MODELS 2362-2365-2392-2395 1949-1950

(728S Superseded by 728SA)

WGD 728S-728SA DUAL DOWN-DRAFT CLIMATIC CONTROL CARBS.—LIST PRICE \$30.00

An \$8.00 exchange allowance is deducted from the list price if buyer turns in old carbureter.

CARBURETER SPECIFICATIONS

For Packard 8 Cylinder Engine: 31/2 Inch Bore, 33/4 Inch Stroke

Dimensions: Flange size, 11/4 inch dual, 4 bolt type. Primary venturi, 11/32 inch 1. D. Secondary venturi, 21/32 inch I. D. Main venturi, 1-3/16 inch I. D.

Float Level: Distance from float to bowl cover, when needle is seated to be 13/64 inch. Use gauge No. T109-39.

Vents: Outside, none. Inside balance vent, in air horn, above choke valve.

Gasoline Intake: Square vertical (push-pull) needle. Seat size No. 42 drill.

Low Speed Jet Tube: Jet size, No. 66 (.033") drill. By-pass, size No. 55 (.052") drill. Economizer, size 1.15 mm (.045") drill. Idle bleed, size No. 56 (.0465") drill.

Idle Ports: Upper port, slot type, length .187 inch. Width .030 inch.

Idle Port Opening: .135 to .141 inch above upper edge of valve with valve closed tight.

Lower Port (For Idle Adjustment Screw): Size, .0615 to .0655 inch diameter.

Set Idle Adjustment Screw: I to 1/2 turns open. For richer mixture turn screw out. Do not idle engine above 450 r.p.m. Nozzle: In primary venturi, angle 45°. Closed tip, round nose. Nozzle is installed permanently. Do not remove. Anti-percolating well; jet size, No. 66 drill.

Metering Rod (Vacumeter Type): Economy step, .0665 inch diameter. Middle step tapers to .064 inch diameter. Power step, .043 inch diameter (728S). Power step, .056 inch diameter (728S). eter (728SA). Length 2-59/64 inches.

Metering Rod Jet: .089 inch diameter.

Metering Rod Setting: After adjusting for pump stroke, set metering rod as follows: With throttle tightly closed, hold metering rods (assembled on vacumeter link) in maximum down position, tighten clamp screw securely with metering rod arm contacting vacumeter link.

Accelerating Pump: Pressure type delayed action plunger (nonadjustable lever). Discharge jet (twin) size No. 74 drill. Intake ball check, size No. 40 (.098") drill. Discharge (needle seat) size No. 50 (.070") drill.

Pump Adjustment: "42" as indicated on gauge T109-117S with throttle valves seated in bores of carbureter or 15/32" from top of dust cover boss to top of plunger shaft.

noke: Carter Climatic Control (728S) set 21/2 points lean, (728SA) set 2 points lean. Butterfly type, offset valve. Choke heat suction hole in body, size No. 36 drill.

Vacuum Spark Port: .103 to .105 inch diameter. Top of port .052 to .062 inch above 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 carbureter.



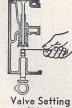
Spark Plug Gap .025"-.030"



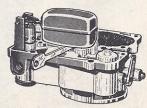
.012"-.017



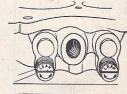
Ignition Timing Breaker Points to Open: 6° B. T. D. C.



(Hot) Intake .007" Exhaust .010"



Float Setting (Use Gauge) 13/64 Inch



Idle Adjustment Screw Setting 1 to 11/2 Turns Open

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FLOAT ADJUSTMENT (Fig. 1):

With bowl cover gasket removed, bowl cover inverted and needle seated, there should be 13/64 inch (gauge T109-39) between top of float and bowl cover.

Adjust by bending lip on float, not float arm.

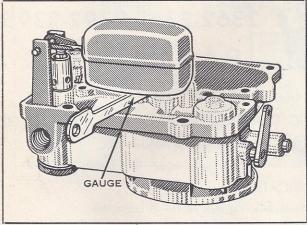


Figure I Float Adjustment

METERING ROD ADJUSTMENT (Fig. 3):

The metering rods must be adjusted after the pump adjustment or when leaner than standard rods are installed. No metering rod gauges are necessary; procedure is as follows: With the throttle lever set screw backed out and throttle valves seated in bores of carbureter, press down on vacumeter link (D) until metering rods bottom. With rods held in this position, revolve metering rod arm until lip contacts vacumeter link (E). Hold in place and carefully tighten metering rod arm set screw (F).

PUMP ADJUSTMENT (Fig. 2):

Back out throttle lever set screw until throttle valves seat in bores of carbureter. Place Universal pump travel gauge T109-117S inverted on edge of dust cover boss of bowl cover. Turn knurled nut of gauge until finger on gauge just touches top of plunger shaft (A). Number indicated on gauge should be "42".

Adjust by bending throttle connector rod at upper angle (B).

Optional Adjustment: The distance from the dust cover boss to the top of the plunger shaft should be 15/32". Adjust as mentioned above.

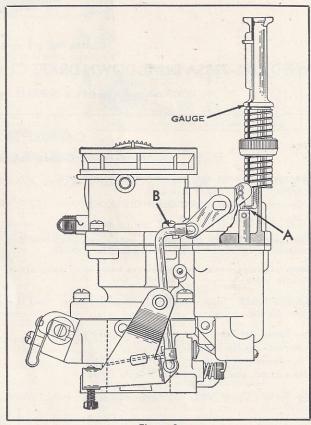


Figure 2 Pump Adjustment

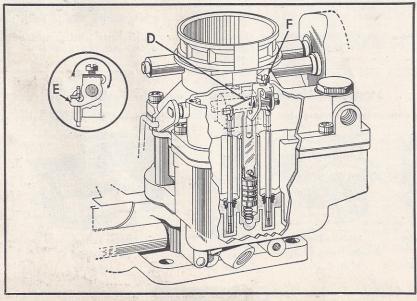


Figure 3
*Metering Rod Adjustment

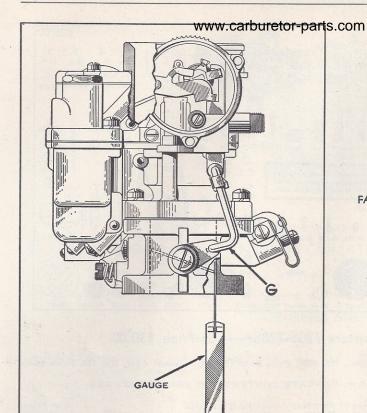


Figure 4
Fast Idle Adjustment

FAST-IDLE ADJUSTMENT (Fig. 4):

With the thermostatic coil housing, gasket and baffle plate removed, crack throttle valve and hold choke valve closed. Then close throttle. There should now be .026" clearance (gauge T109-189) between throttle valve and bore of carbureter (side opposite idle port).

Adjust by bending the choke connector rod at lower angle (G).

UNLOADER ADJUSTMENT (Fig. 5):

Must be made after fast idle adjustment. Hold throttle valve wide open and close choke valve as far as possible without forcing; there should now be 1/8 inch clearance between upper edge of choke valve and inner wall of air horn. Adjust by bending arm (H) on choke trip lever (tool T109-187).

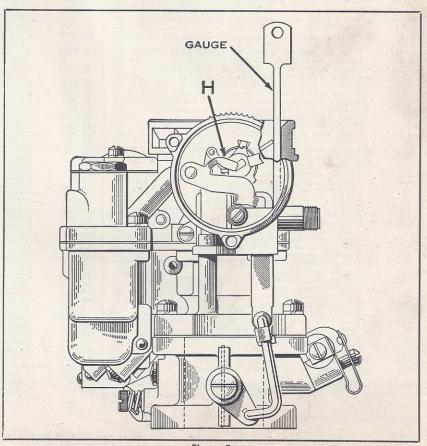
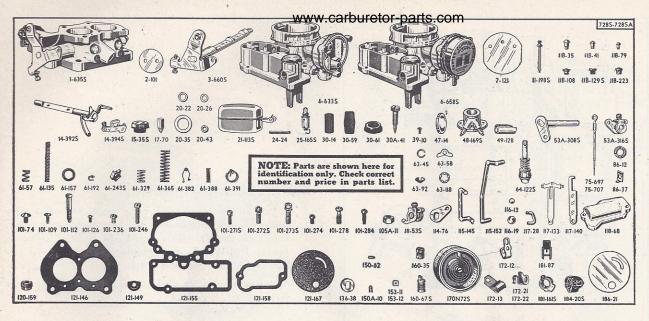


Figure 5 Unloader Adjustment



Packard 8-1949-1950-Carbureters 728S-728SA-List Price \$30.00

When Servicing, Use Repair Package No. 1524, Price \$4.95 (728S), No. 1525, Price \$4.95 (728SA); Gasket Asst. No. 196, Price \$0.40

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

Part No.	PART NAME List F	rice	Part No.	PART NAME	ist P	rice
1-635S	-Body flange assembly.	\$6.25	75-709	-Metering rod (1 size lean) (728S)	(2)	.30
2-101	Throttle valve(2)	.10	75-710	-Metering rod (2 sizes lean) (728S)	(2)	.30
3-660S	-Throttle shaft and lever assembly		75-721	Metering rod-1 size lean (728SA)	(2)	.30
6-633S	-Air horn and piston housing assembly (Sup.		75-722	Metering rod—2 sizes lean (728SA)	(2)	.30
0-0000	by 6-687S)		86-12	Flange stud lock washer	(4)	
6-658\$	-Air horn assembly (Sup. by 6-688S)		86-37	Terminal lock washer		
6-6878	Air horn and piston housing assembly		101-74	Throttle shaft arm attaching screw		.05
6-6888	Air horn assembly		101-109	Switch terminal screw		
7-121	Choke valve		101-112			.05
11-1985	-Low speed jet assembly(2)		101-126	Terminal cap attaching screw		.05
11B-12				Throttle valve attaching screw(4)	2 Ior	.05
	Rivet plug(1)	.02	101-236	Metering rod arm clamp screw (Sup. by	(0)	
11B-35	Rivet plug (2)	.02	404 040	101-293)		
11B-41	Rivet plug(4)	.02	101-246	Throttle lever adjustment screw		.05
11B-79	Rivet plug(1)	.02	101-2718	Dust cover attaching screw and washer		
11B-108	Idle port rivet plug(2)	.02		assembly	(2)	.05
11B-129S	Plug and gasket assembly (early production)	.10	101-2728	Air horn attaching screw and washer	- Tan	
11B-223	Nozzle rivet plug(2)	.02		assembly	(8)	.05
14-3925	-Choke piston lever, link and shaft assembly	.40	101-2738	Body flange attaching screw and washer		
14-3945	-Choke trip lever and pin assembly			assembly		.05
15-35S	Strainer nut and gasket assembly		101-274	Coil housing attaching screw		.05
17-70 20-22	Pump check needle		101-278	Pump jet housing attaching screw		.40
20-22	*Needle seat gasket		101-284	-Piston housing attaching screw	(3)	.05
20-26	*Gasket *Bowl strainer gasket		101-293	Metering rod arm clamp screw		
20-35	Piston housing gasket		105A-11	Flange stud nut		
21-1135	Float and lever assembly.		111-538	Metering rod arm and screw assembly		
24-24	Float lever pin		114-76	-Throttle shaft arm		
25-165S	-Needle and seat assembly		115-145	-Choke connector rod		.20
30-14	Bowl cover strainer		115-153	-Throttle connector rod		
30-59	Strainer		116-13	Pump intake check ball		
30-61	Switch strainer		116-19	Switch ball		
30A-41	Idle adjustment screw(2)		117-28	Pump arm link		.05
39-10	Choke valve attaching screw(2) 2 for		117-133	Vacumeter piston link		.10
47-14	Choke cylinder welsh plug		117-140	-Fast idle link		.10
48-1695	-Pump jet and housing assembly	1.00	118-68	-Dust cover		.25
49-128	Switch plunger		120-159	Metering rod jet	(2)	.30
53A-308S	Pump operating lever and countershaft		121-146	Body flange gasket		.10
	assembly	.50	121-149	Pump jet gasket		.05
53A-316S	-Pump arm and screw assembly		121-155	-Air horn gasket		
61-57	Idle adjustment screw lock spring(2)		121-158	-Dust cover gasket		
61-135	Vacuum piston spring	.05	121-167	-Coil housing gasket		.05
61-157	Plunger spring			Throttle shaft washer		
61-192	Needle pull clip	.05	150-62	Choke piston pin		
61-2438	Switch contact spring and washer assembly	.15	150A-10	Pin spring		
61-329	Pump spring (upper)		153-11 153-12	Switch contact spring shim (.018")		
61-365	Pump spring (lower)	.10		Switch contact spring shim (.006")		
61-382	Metering rod spring		160-35	Choke piston		
61-388	Switch return spring	.10	160-67S	Vacuum piston and pin assembly		
61-391	-Fast idle cam spring.		170N-72S	-Thermostatic coil and housing assembly		
63-45	Pump check ball retainer ring		172-12	Terminal cap hold down clip		
63-58	Coil housing retainer (3)		172-13	Cable clip		
63-92	Pump spring retainer	.05	172-21	Throttle connector rod retainer		
63-118	Throttle shaft retaining ring	.05	172-22	Switch guide block		
64-122S	Plunger, rod, spring and retainer assembly	1.45	181-87 181-161S	—Fast idle cam assembly		
75-679	-Metering rod-standard (.0665"0665" to	00	184-20\$	Terminal cap assembly		
75 707	.064"043") (728S)(2)	.30	184-205	-Baffle plate		
75-707	-Metering rod-standard (.0665"0665" to	20		Carter starter switch unit		1.75
	.064"056") (728SA)(2)	.30	192-11U	Carter Starter Switch and		

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

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.

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