



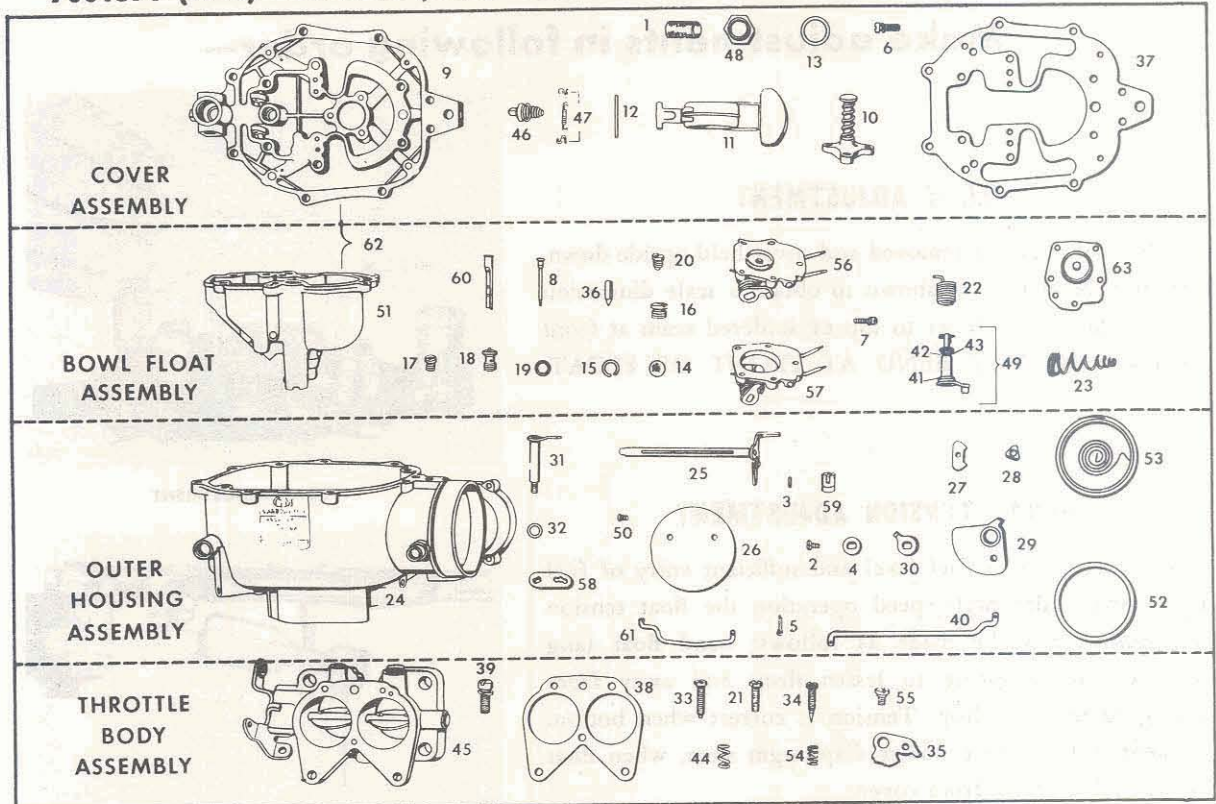
Rochester Carburetors

OLDSMOBILE — 1949-50

AUTOMATIC CHOKE CARBURETORS

7001570 (1949) — 7002570 (1950) — Use 7002570 As Replacement For Both Models

BULLETIN 9 C-500
 Date 4-1-53
 Supersedes Bulletin 9A-103
 Dated 2-1-51, and
 Group I Dated 1-1-49,
 Group III Dated 12-1-49



PARTS SHOWN ARE FOR IDENTIFICATION ONLY. CONSULT PARTS LIST FOR CORRECT PART NAME AND NUMBER.

REPAIR KIT — 7001353 (7001570)-7001376 (7002570)
 Carburetor Carburetor

GASKET KIT — 7001849

COMMON PARTS

Illus. No.	Part No.	Part Name	Illus. No.	Part No.	Part Name
1	342139	Strainer—Fuel Inlet	26	7001643	Valve—Choke
	444571	Plug— $\frac{1}{4}$ " Dryseal N.P.T.F.	27	7001647	Retainer—Stat Cover—Toothed
	555702	Gasket—Flange	28	7001649	Retainer—Stat Cover—Plain
2	1875051	Screw—Trip Lever Attaching	29	7001650	Choke Counterweight and Collar Assy.
3	1875069	Pin—Choke Piston	30	7001652	Trip Lever—Choke
	1875256	Rivet Plug—Passage	31	7001653	Pump Actuating Shaft Assy.
4	1875354	Washer—Spacing	32	7001656	Packing—Pump Actuating Shaft
5	7000006	Pin—Cotter	33	7001664	Screw—Fast Idle
6	7000745	Screw—Cover Attaching	34	7001669	Needle—Idle Adjusting
7	7000747	Screw—Pump Attaching	35	7001671	Cam—Fast Idle
8	7001494	Tube—Idle	36	7001674	Valve—Pump Discharge
9	7001572	Cover Assembly	37	7001676	Gasket—Cover
	7001574	Ball—Plug $\frac{1}{2}$ " Dia.	38	7001677	Gasket—Throttle Body
	7001576	Power Valve Actuating Assy.	39	7001678	Screw—Throttle Body Attaching
10	7001586	Float Assy.	40	7001679	Rod—Choke
11	7001595	Pin—Float Hinge	41	7001687	Felt—Large
12	7001597	Gasket—Strainer Nut	42	7001688	Felt—Small
13	7001604	Strainer—Pump Inlet	43	7001689	Washer
14	7001605	Retainer—Pump Inlet Strainer	44	7001690	Spring—Fast Idle and Idle Stop Screws
15	7001606	Plug—Pump Fill Hole		7001699	Plug—Expansion, Choke
16	7001498	Jet—Main Metering (Lean)	45	7001844	Throttle Body Assy.
17	7001607	Jet—Main Metering (Std.)	46	7001846	Float Valve, Seat and Gasket Assy.
18	7001608	Power Valve Assy.		7001849	Gasket Kit
19	7001613	Gasket—Power Valve	47	7001850	Float Balance, Spring and Clips
20	7001614	Pump Fill Check Valve Assy.	48	7001851	Nut—Strainer
21	7001619	Screw—Idle Stop	49	7001852	Pump Shaft Assy.
22	7001632	Spring—Pump Actuating	50	7002305	Screw—Choke Valve Attaching
23	7001633	Spring—Pump Diaphragm	51	7002520	Float Bowl Assy.
24	7001635	Outer Housing Assy.	52	7002760	Gasket—Stat Cover
	7001637	Ball—Plug $\frac{1}{2}$ " Dia.	53	7002771	Stat Cover and Coil Assy.
	7001638	Ball—Plug $\frac{1}{4}$ " Dia.	54	7003190	Spring—Idle Adjusting Needle
25	7001640	Choke Shaft Assy.	55	7003561	Screw—Fast Idle Cam Attaching

PARTS WHICH DIFFER

Carburetor No.	Pump Assembly	Pump Housing Assembly	Lever—Actuating—Outside	Piston—Choke	Tube—Main Well	Rod—Pump	Cover and Bowl Assembly	Pump Rack and Diaphragm Assembly	Repair Kit	Tube—Bowl Vent
	56	57	58	59	60	61	62	63		
7001570	7001616	7001617	7001657	7001658	7001675	7001680	7001843	7001847	7001353	7001673
7002570	7002522	7002523	7002530	7002529	7002124	7002531	7002565	7002566	7001376	

OLDSMOBILE — 1949-50 Automatic Choke Carburetors

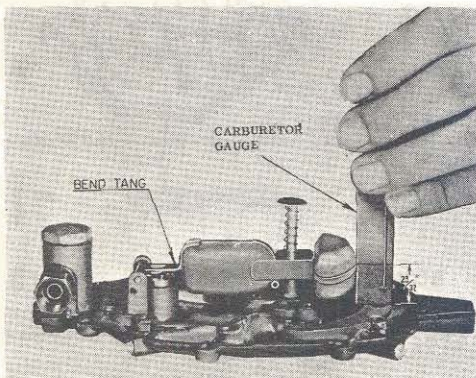
7001570 (1949) — 7002570 (1950)

CARBURETOR ADJUSTMENTS

Make adjustments in following order—

FLOAT ADJUSTMENT

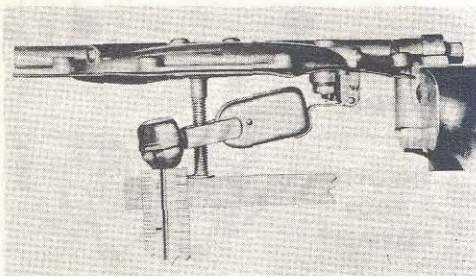
With cover gasket removed and cover held upside down, carefully bend float as shown to obtain a scale dimension $\frac{23}{32}$ " from face of cover to top of soldered seam at front of float. DO NOT BEND AT FRONT OF FLOAT.



FLOAT ADJUSTMENT

FLOAT TENSION ADJUSTMENT

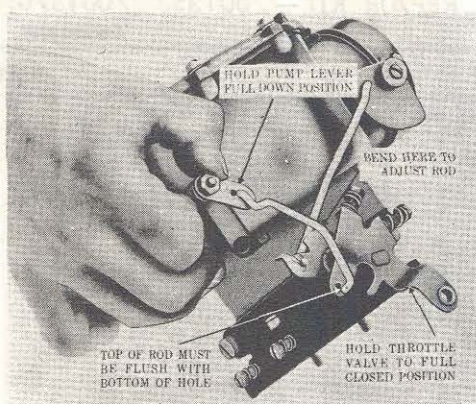
To insure proper fuel level and sufficient entry of fuel into bowl under high speed operation the float tension adjustment must be made as follows: bend float tang against balance spring to lessen drop and away from spring to increase drop. Tension is correct when bottom of float is $\frac{1}{8}$ " above power diaphragm stem, when float is suspended freely from cover.



FLOAT TENSION ADJUSTMENT

PUMP LEVER ADJUSTMENT

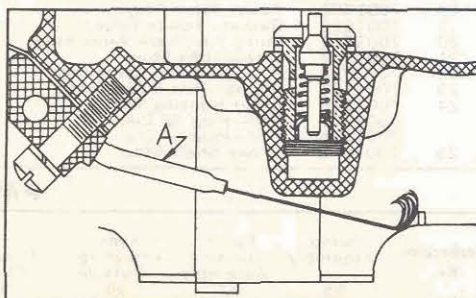
With pump rod in recommended outside hole for 1949 Models or center hole for 1950 Models back off idle stop screw and fast idle screw so that throttle valves are full closed. Remove pump rod from throttle lever and pull down to full allowable cocked diaphragm position. With pump rod directly under its hole in throttle lever carefully bend rod so that top edge of pump rod is flush with bottom edge of hole in the throttle lever. Reassemble pump rod to throttle lever. This insures correct pump delivery at all speeds.



PUMP ADJUSTMENT

PUMP TARGETING ADJUSTMENT

For 1949 Models—Although the actual point of discharge cannot be seen, it can be checked. With fuel in the carburetor actuate throttle lever slowly and note pump discharge by looking into the air horn. The pump discharge must appear as a fan shaped spray. Only a very slight bend is necessary to properly target the pump jets. PUMP DISCHARGE MUST NOT SPRAY OUT OF AIR HORN.



1949 MODELS

OLDSMOBILE — 1949-50 Automatic Choke Carburetors

7001570 (1949) — 7002570 (1950)

CARBURETOR ADJUSTMENTS, Cont'd.

For 1950 Models—With small quantity of fuel in carburetor, carefully bend pump jets to target against their respective pump splashers as shown to give a fan-shaped spray.

CHOKE ROD ADJUSTMENT

With thermostat cover set at index turn fast idle screw until it contacts the first or intermediate stop of fast idle cam. Be sure choke trip lever is in contact with choke counterweight. Choke valve will now be slightly open. With fast idle screw and fast idle cam held in this position, carefully bend choke rod to obtain a clearance of .147" between bottom edge of choke valve and small inside diameter of air horn. No. 26 drill is .147". Note: Choke Rod must not rub side of housing at any choke valve position.

Note: Fast idle cam tang must not rest upon choke rod when choke valve is fully closed. If necessary, bend fast idle cam tang slightly so that choke valve may fully close.

UNLOADER ADJUSTMENT

Thermostat cover set at index. Open throttle lever to full wide open position. Be sure choke trip lever is in contact with choke counterweight tang. Hold throttle lever in this position and carefully bend tang of throttle lever to obtain a clearance of .238" for 1949 Models or .220" for 1950 Models between bottom edge of choke valve and small inside diameter of air horn.

FAST IDLE ADJUSTMENT

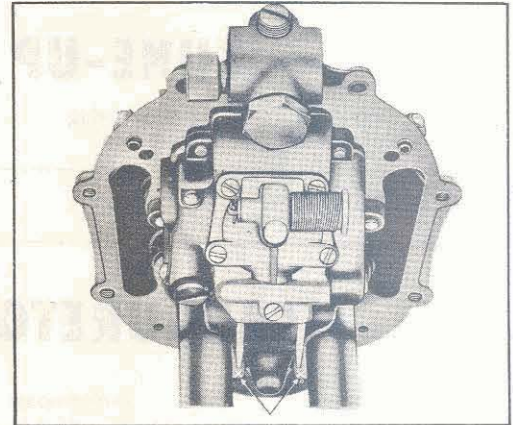
With thermostat cover set at index move fast idle cam so that choke valve is full closed. Hold throttle lever in closed position so that fast idle screw rests on high step of fast idle cam. Now adjust fast idle screw to obtain a clearance of .023 between throttle valves and bore of throttle body on side opposite idle screws.

Note: If making this adjustment on engine having engine and transmission hot. Hold the throttle partially open and rotate fast idle cam so that the fast idle screw rests 100% on lowest point of the low step of cam.

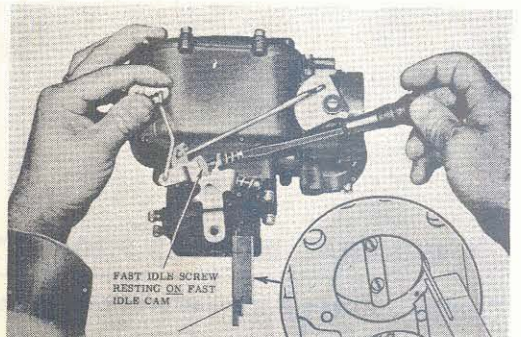
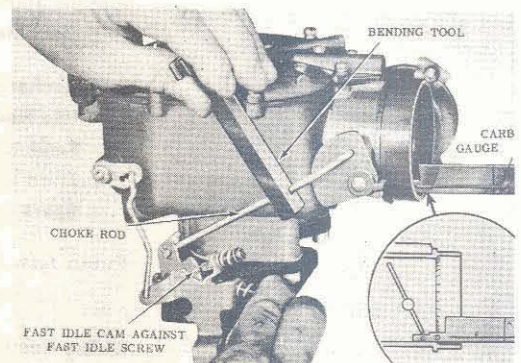
With screw and cam in this position, adjust screw to give an engine speed of 500 RPM.

This adjustment assures proper idle for starting the engine and should always be checked in the event stalling is experienced during the warm-up period.

Carburetor Gauge BT-17 (For 1949 Models) and BT-35 (For 1950 Models) and Bending Tool BT-18 are available from Borroughs Tool Co., Kalamazoo, Michigan.



1950 MODELS
PUMP TARGETING ADJUSTMENT



OLDSMOBILE — 1949-50 Automatic Choke Carburetors

7001570 (1949) — 7002570 (1950)

TUNE-UP SPECIFICATIONS

Year and Model	Spark Plug Gap	Breaker Point Gap	Ignition Timing	Idling RPM
1949-50 Olds "8"	.030"	.015"	2½° BTDC	375 (DR)

CARBURETOR SPECIFICATIONS

Dimensions:

Primary Venturi—1.187"

Secondary Venturi—.343"

Identification:

Main Metering Jets—Stamped 54

Idle Discharge Holes:

Idle Needle Orifice—.052"

Second Idle Hole—.040" x Flush

Third Idle Hole—.036" x .050" Above

Spark Drilling—.040" x .010" Nick

Pump Jet—.026" (1570)

.024" (2570)

Choke Restriction—.076"

Idle Tube Restriction—.025"

Power Restriction—.033"

A GENERAL MOTORS PRODUCT



A UNITED MOTORS-AC LINE

UNITED MOTORS SERVICE—AC DIVISION, GENERAL MOTORS PRODUCTS OF CANADA LIMITED, OSHAWA, ONTARIO

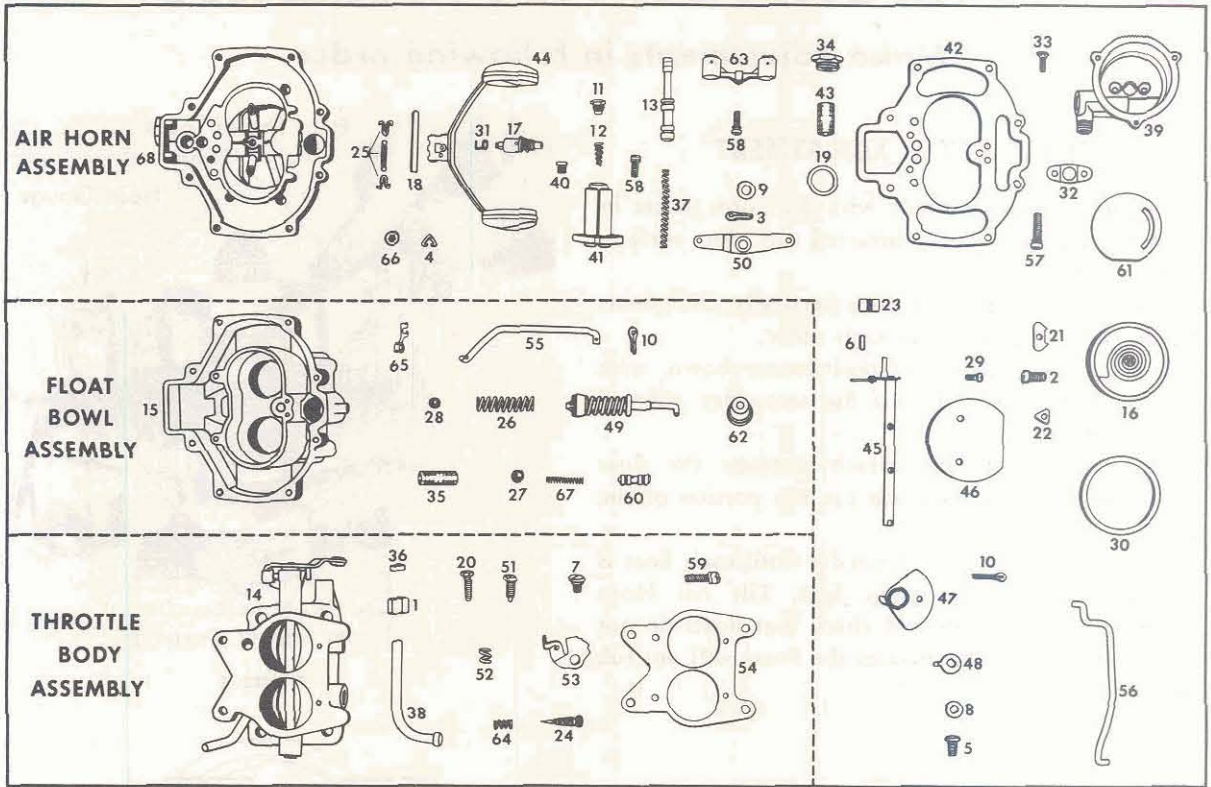


Rochester Carburetors

OLDSMOBILE—1951

AUTOMATIC CHOKE CARBURETOR—7002900

BULLETIN 9 C-501
 Date 2-15-53
 Supersedes Bulletin 9A-104
 Dated 2-1-51 and
 Group 4 Dated 1-1-51



PARTS SHOWN ARE FOR IDENTIFICATION ONLY. CONSULT PARTS LIST FOR CORRECT PART NAME AND NUMBER.

REPAIR KIT—7001390

GASKET KIT—7001393

PARTS LIST

Illus. No.	Part No.	Part Name	Illus. No.	Part No.	Part Name
1	114627	Nut—Choke Suction Tube	32	7002841	Gasket—Choke Housing
2	131958	Screw—Stat Cover Attaching	33	7002842	Screw—Choke Housing Attaching
3	435864	Cotter Pin—Fulcrum Lever	34	7002862	Nut—Strainer
4	837527	Retainer—Check Valve	35	7002866	Strainer—Pump Inlet
5	1875051	Screw—Choke Trip Lever	36	7002883	Packing—Choke Suction Tube
6	1875069	Pin—Choke Piston	37	7002896	Spring—Power Piston
7	1875343	Screw—Cam Attaching	38	7002902	Choke Suction Tube Assy.
8	1875354	Washer—Spacing	39	7002906	Choke Housing Assy.
9	1887572	Washer—Fulcrum Lever Stud	40	7002951	Jet—Main Metering
10	7000006	Cotter Pin—Choke and Pump Rod	41	7003076	Main Well Support Assy.
11	7001125	Plug—Power Valve	42	7003082	Gasket—Air Horn
12	7001126	Spring—Power Valve	43	7003083	Strainer—Fuel Inlet
13	7001128	Piston—Power	44	7003088	Float Assy.
14	7001388	Throttle Body Assy.	45	7003092	Choke Shaft Assy.
15	7001389	Float Bowl Assy.	46	7003094	Valve—Choke
	7001390	Repair Kit	47	7003095	Choke Counterweight
	7001393	Gasket Kit	48	7003097	Lever—Choke Trip
16	7001394	Stat Cover and Coil Assy.	49	7003098	Pump Plunger Assy.
17	7001395	Float Valve, Seat and Gasket Assy.	50	7003111	Fulcrum Lever and Collar Assy.
18	7001595	Pin—Float Hinge	51	7003122	Screw—Cam
19	7001597	Gasket—Strainer Nut	52	7003123	Spring—Idle Stop Screw
20	7001619	Screw—Idle Stop	53	7003126	Cam—Fast Idle
	7001637	Ball—Plug 7/8" Dia.	54	7003127	Gasket—Throttle Body
21	7001647	Retainer—Stat Cover—Toothed	55	7003128	Rod—Pump
22	7001649	Retainer—Stat Cover—Plain	56	7003129	Rod—Choke
23	7001658	Piston—Choke	57	7003130	Screw—Air Horn Attaching
24	7001669	Needle—Idle Adjusting	58	7003132	Screw—Venturi Cluster Attaching
	7001699	Plug—Expansion—Choke	59	7003139	Screw—Throttle Body Attaching
25	7001850	Float Balance Spring and Clips	60	7003140	Piston—Pump Discharge Check
	7002055	Plug—Idle Passage	61	7003144	Plate—Choke Baffle
26	7002101	Spring—Pump Return	62	7003147	Boot—Pump Plunger
27	7002117	Ball—Pump Discharge	63	7003189	Venturi Cluster Assy.
28	7002120	Ball—Pump Inlet Check	64	7003190	Spring—Idle Adjusting Needle
29	7002305	Screw—Choke Valve	65	7003242	Clip—Rod End
30	7002760	Gasket—Stat Cover	66	7003582	Valve—Pump Discharge Check
31	7002806	Float Pull Clip	67	7003700	Spring—Pump Discharge Ball
	7002814	Plug—Lead Ball .17" Dia.	68	7004452	Air Horn Assy.

OLDSMOBILE — 1951 Automatic Choke Carburetor 7002900

CARBURETOR ADJUSTMENTS

Make adjustments in following order —

FLOAT LEVEL ADJUSTMENT

This adjustment is made with air horn gasket in position and air horn inverted on flat surface. (Figure 1.)

1. Carefully bend float arms vertically until floats appear level in relation to each other.

2. Place Float Gauge in position as shown, with locating tangs inserted into the secondary venturii to position gauge.

3. Bend float button, which contacts the float needle, until the floats touch the top portion of the gauge.

4. Now bend arms horizontally until each float is centered between the gauge legs. Tilt Air Horn assembly 90° each side and check that floats do not touch gauge legs. This insures the floats will not rub sides of float bowl.

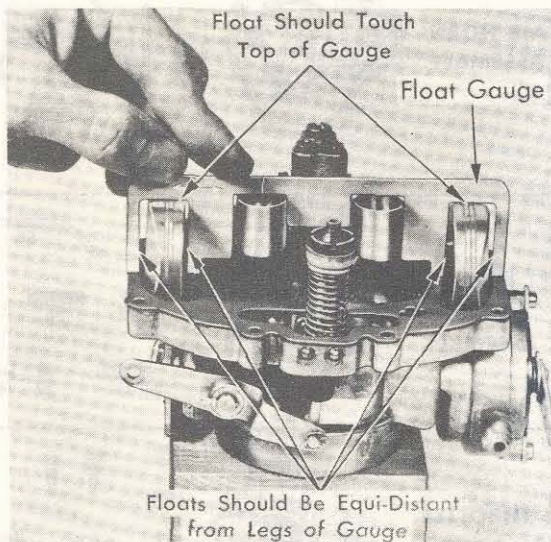


FIGURE 1

FLOAT DROP ADJUSTMENT

To insure proper fuel level and sufficient entry of fuel into the bowl under high speed operation the float drop adjustment must be made as follows: (Figure 2.) bend the float tang, at the rear of the float, against the balance spring to lessen the drop and away from the balance spring to increase the drop. The tension is correct when the distance from the bottom of the air horn gasket to the bottom of the floats, with the air horn assembly held in an upright position, is equivalent to the scaled dimension as shown ($1\frac{3}{4}$ ”).

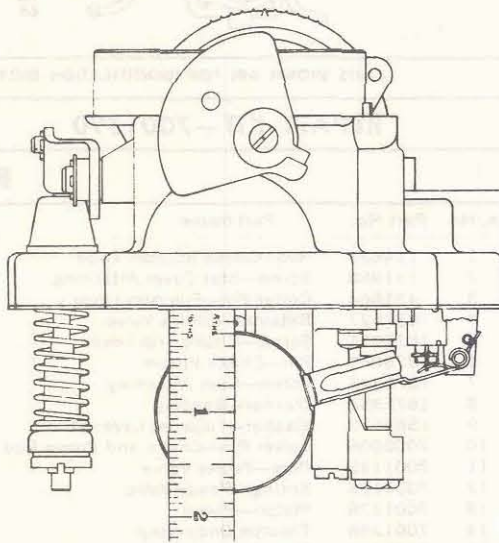


FIGURE 2

PUMP ROD ADJUSTMENT

Back off the idle stop screw and the fast idle screw so that the throttle valves are fully closed. (Figure 3.) Remove pump rod from rocker arm and hold rocker arm down so that the pump plunger is in its extreme “up” position. With pump rod directly over the rocker arm hole carefully bend the pump rod until the bottom edge of the pump rod is flush with the top edge of the rocker arm hole. Reassemble pump rod to rocker arm. This insures correct pump delivery at all speeds.

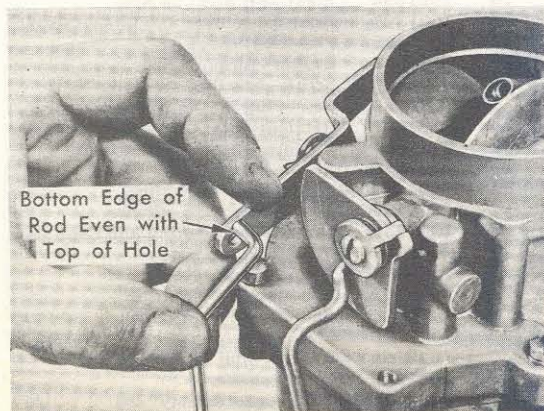


FIGURE 3

OLDSMOBILE — 1951 Automatic Choke Carburetor 7002900

CARBURETOR ADJUSTMENTS, Cont'd.

CHOKE ROD ADJUSTMENT

With thermostat cover set at index turn fast idle screw until it contacts the intermediate or middle step on the fast idle cam. Be sure choke trip lever is in contact with choke counter-weight. Choke valve will now be slightly open. With fast idle screw and fast idle cam held in this position, carefully bend the choke rod to obtain a clearance of .177" between bottom edge of choke valve and flat on inside diameter of air horn. (Figure 4.)

Note: Choke Rod must not rub side of housing at any choke valve position.

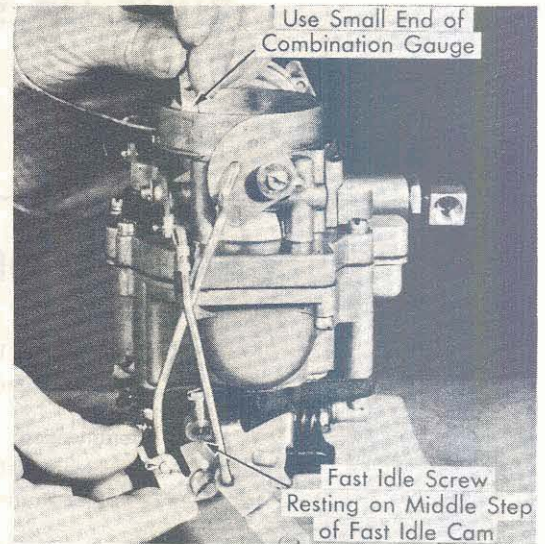


FIGURE 4

UNLOADER ADJUSTMENT

With thermostat cover set at index and choke trip lever in contact with choke counter weight, move throttle to full open position. Hold throttle lever in this position and carefully bend tang of throttle lever to obtain a clearance of .209" between bottom edge of choke valve and flat on inside diameter of air horn. (Figure 5.)

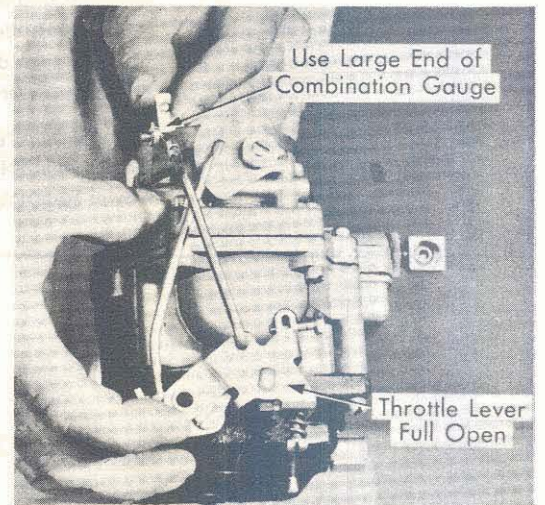


FIGURE 5

FAST IDLE ADJUSTMENT

With thermostat cover set at index move fast idle cam so that choke valve is fully closed. Hold throttle lever in closed position so that fast idle screw rests on high step of fast idle cam. Now adjust fast idle screw to obtain a clearance of .026" between throttle valves and bore of throttle body on side opposite idle screws. (Figure 6.)

Note: In making this adjustment on engine have engine and transmission hot. Hold the throttle partially open and rotate fast idle cam so that the fast idle screw rests on the lowest point of the low step of cam. With screw and cam in this position, adjust screw to give an engine speed of 500 R.P.M.

This adjustment assures proper idle for starting the engine and should always be checked in the event stalling is experienced during the warm-up period.

Bending Tool BT-18, Combination Carburetor Gauge BT-49, Float Gauge BT-51, and Suction Tube Tool BT-45 are available from Borroughs Tool Co., Kalamazoo, Michigan.

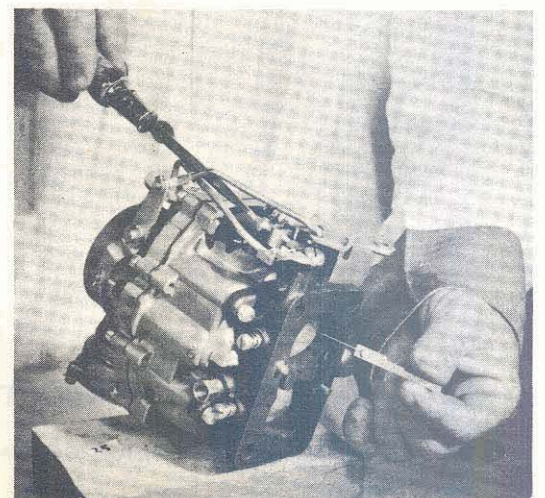
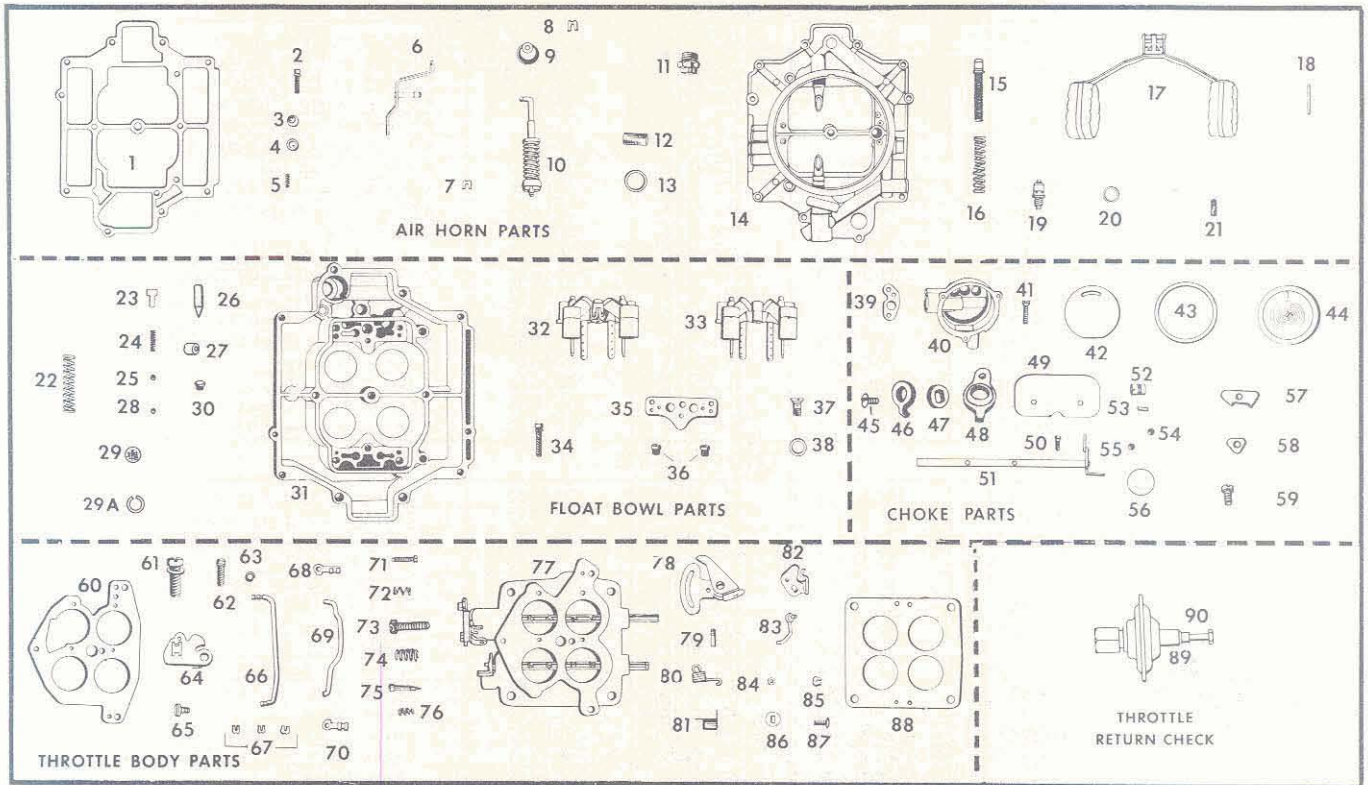


FIGURE 6



Rochester Carburetors MODEL 4GC 1952-1953 OLDSMOBILE

BULLETIN 9C-502
PAGE 1 OF 4
DATE: MAY, 1960
REPLACES:
9C-502 AND 9C-503
2/15/53



PARTS SHOWN ARE FOR IDENTIFICATION ONLY. CONSULT PARTS LIST FOR CORRECT PART NAME AND NUMBER

	1952	1952	1953	1953	1953	YEAR
	Hydramatic	Synchromesh	Hydramatic	Synchromesh	Dynaflow	APPLICATION
	7004300	7004800	7005600	7005700	7006250	CARBURETOR No.
	7005600	7005700	7005600	7005700	7005600	REPLACEMENT PACKAGE No.
	7009316	7009316	7009317	7009317	7009317	MASTER REPAIR KIT
	FR-500	FR-500	FR-500	FR-500	FR-500	OFF KAR KIT
	FR-57	FR-57	FR-57	FR-57	FR-57	KLEANOUT KIT
	7009291	7009291	7009291	7009291	7009291	GASKET KIT

Illus. No.	AIR HORN PARTS					
1	7006061	7006061	7006061	7006061	7006061	★Gasket — Air Horn
2	7000349	7000249	7000249	7000249	7000249	Screw — Air Horn
3	7004527	7004527	7004527	7004527	7004527	Valve — Idle Vent
4	7004528	7004528	7004528	7004528	7004528	Guide — Idle Vent
5	7004529	7004529	7004529	7004529	7004529	Spring — Idle Vent
6	7007617	7007617	7007617	7007617	7007617	Pump Shaft and Lever Assembly
7	7007616	7007616	7007616	7007616	7007616	★Clip — Pump Shaft
8	7005032	7005032	7005032	7005032	7005032	★Clip — Pump Plunger
9	7003147	7003147	7003147	7003147	7003147	★Boot — Pump Plunger
10	7005537	7005537	7005537	7005537	7005537	★Pump Assembly
11	7002862	7002862	7002862	7002862	7002862	Strainer Nut
12	7003083	7003083	7003083	7003083	7003083	★Strainer — Fuel Inlet
13	7001597	7001597	7001597	7001597	7001597	★Gasket — Strainer Nut
14	7005589	7005589	7005589	7005589	7005589	Air Horn Assembly
15	7004302	7004302	7004302	7004302	7004302	Power Piston Assembly
16	7002897	7002897	7002897	7002897	7002897	Spring — Power Piston
17	7000199	7000199	7000199	7000199	7000199	Float Assembly
18	7001595	7001595	7001595	7001595	7001595	Pin — Float Hinge
19	7004682	7004682	7004682	7004682	7004682	★Needle and Seat Assembly
20	7001613	7001613	7001613	7001613	7001613	★Gasket — Needle Seat
21	7006079	7006079	7006079	7006079	7006079	★Strainer — Needle Seat

★ MASTER REPAIR KIT CONTENTS

PRINTED IN CANADA.

Illus. No.	1952	1952	1953	1953	1953	YEAR
	Hydramatic	Synchromesh	Hydramatic	Synchromesh	Dynaflow	APPLICATION
	7004300	7004800	7005600	7005700	7006250	CARBURETOR No.

FLOAT BOWL PARTS

22	7004597	7004597	7004597	7004597	7004597	★Spring — Pump Return
23	—	—	7003838	7003838	7003838	★Guide — Pump Discharge
24	—	—	7002118	7002118	7002118	★Spring — Pump Discharge
25	—	—	7002117	7002117	7002117	★Ball — Pump Discharge
26	7001674	7001674	—	—	—	★Valve — Pump Discharge
27	7004587	7004587	—	—	—	★Pump Vent Check Valve Assembly
28	7002120	7002120	7002120	7002120	7002120	★Ball — Pump Inlet
29	7001604	7001604	7001604	7001604	7001604	★Strainer — Pump Inlet
29A	7001605	7001605	7001605	7001605	7001605	★Retainer — Pump Strainer
30	7005286	7005286	7005286	7005286	7005286	Sight Plug
31	7004681	7004681	7005590	7005590	7005590	Float Bowl Assembly
32	7004317	7004317	7005533	7005533	7005533	Venturi Cluster — Primary
33	7004311	7004847	7005534	7005719	7005534	Venturi Cluster — Secondary
34	451910	451910	451910	451910	451910	Screw — Cluster Attaching
35	7007803	7007803	7007803	7007803	7007803	★Gasket — Venturi Cluster
36	7002651	7002651	7002649	7002651	7002649	Jet — Primary
36	7002661	7002643	7002656	7002647	7002656	Jet — Secondary
37	7001608	7001608	7001608	7001608	7001608	★Power Valve Assembly
38	7001613	7001613	7001613	7001613	7001613	★Gasket — Power Valve

CHOKE PARTS

39	7007502	7007502	7007502	7007502	7007502	★Gasket — Choke Housing
40	7004277	7004277	7004277	7004277	7004277	Choke Housing Assembly
41	7004821	7004821	7004821	7004821	7004821	Screw — Choke Housing
42	7004285	7004285	7004285	7004285	7004285	Baffle Plate
43	7002760	7002760	7002760	7002760	7002760	★Gasket — Stat Cover
44	7004684	7004684	7004684	7004684	7004684	Stat Cover, Coil and Gasket Assembly
45	1875051	1875051	1875051	1875051	1875051	Screw — Trip Lever
46	7003097	7003097	7003097	7003097	7003097	Trip Lever
47	1875354	1875354	1875354	1875354	1875354	Washer — Spacing
48	7004286	7004286	7004286	7004286	7004286	Choke Lever and Choke Assembly
49	7004284	7004284	7004284	7004284	7004284	Choke Valve
50	7007627	7007627	7007627	7007627	7007627	Screw — Choke Valve
51	7004281	7004281	7004281	7004281	7004281	Choke Shaft and Lever Assembly
52	7001658	7001658	7001658	7001658	7001658	Choke Piston
53	1875069	1875069	1875069	1875069	1875069	Pin — Choke Piston
54	7001637	7001637	7001637	7001637	7001637	Plug — Lead Ball — Large
55	7002814	7002814	7002814	7002814	7002814	Plug — Lead Ball — Small
56	7003135	7003135	7003135	7003135	7003135	Plug — Expansion
57	7001647	7001647	7001647	7001647	7001647	Retainer — Stat Cover — Toothed
58	7001649	7001649	7001649	7001649	7001649	Retainer — Stat Cover — Plain
59	7010424	7010424	7010424	7010424	7010424	Screw — Stat Cover

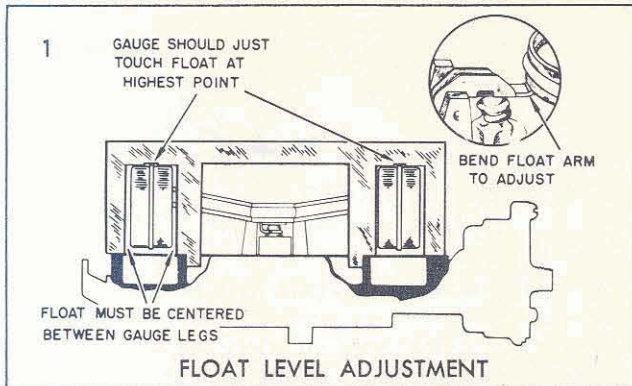
THROTTLE BODY PARTS

60	7006887	7006887	7006887	7006887	7006887	★Gasket — Throttle Body
61	7004324	7004324	7004324	7004324	7004324	Screw — Throttle Body — Large
62	7005188	7005188	7005188	7005188	7005188	Screw — Throttle Body — Small
63	121744	121744	121744	121744	121744	Lockwasher — Small Screws
64	7004395	7004395	7004395	7004395	7004395	Cam — Fast Idle
65	7003561	7003561	7003561	7003561	7003561	Screw — Cam Attaching
66	7004326	7004326	7004326	7004326	7004326	Choke Rod
67	7005109	7005109	7005109	7005109	7005109	★Clip — Choke Rod
68	7003137	7003137	7003137	7003137	7003137	★Clip — Pump Rod — Upper
69	7004325	7004325	7004325	7004325	7004325	Pump Rod
70	7003137	7003137	7003137	7003137	7003137	★Clip — Pump Rod — Lower
71	7011546	7011546	7011546	7011546	7011546	Fast Idle Screw
72	7003176	7003176	7003176	7003176	7003176	Spring — Fast Idle Screw
73	7001619	7001619	7001619	7001619	7001619	Idle Stop Screw
74	7003176	7003176	7003176	7003176	7003176	Spring — Idle Stop Screw
75	7004402	7004402	7004402	7004402	7004402	★Idle Needle
76	7003190	7003190	7003190	7003190	7003190	Spring — Idle Needle
77	7004683	7004683	7005591	7005591	7005591	Throttle Body Assembly
78	7004397	7004397	7004397	7004397	7004397	Lever — Secondary Actuating
79	7004399	7004399	7004399	7004399	7004399	Screw — Shaft Override Spring
80	7004398	7004398	7004398	7004398	7004398	Spring — Shaft Override
81	7005145	7005145	7005145	7005145	7005145	Spring — Secondary Throttle Return
82	7004396	7004396	7004396	7004396	7004396	Secondary Lever
83	7004401	7004401	7004401	7004401	7004401	Link — Secondary Lever
84	7002287	7002287	7002287	7002287	7002287	Washer — Secondary Lever Link
85	7005109	7005109	7005109	7005109	7005109	★Clip — Secondary Lever Link
86	1875066	1875066	1875066	1875066	1875066	Washer — Secondary Lever
87	7010435	7010435	7010435	7010435	7010435	Screw — Secondary Lever
88	561409	561409	561409	561409	561409	★Flange Gasket

THROTTLE RETURN CHECK PARTS

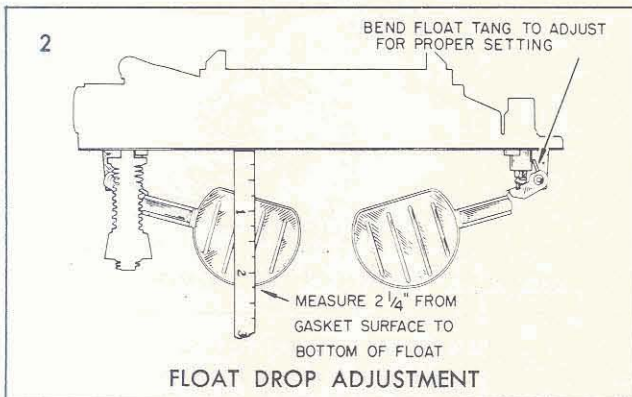
89	—	—	—	—	7006214	Throttle Return Check Assembly
90	—	—	—	—	7006308	Contact Screw

1952, 1953 OLDSMOBILE
ADJUSTMENTS AND SPECIFICATIONS



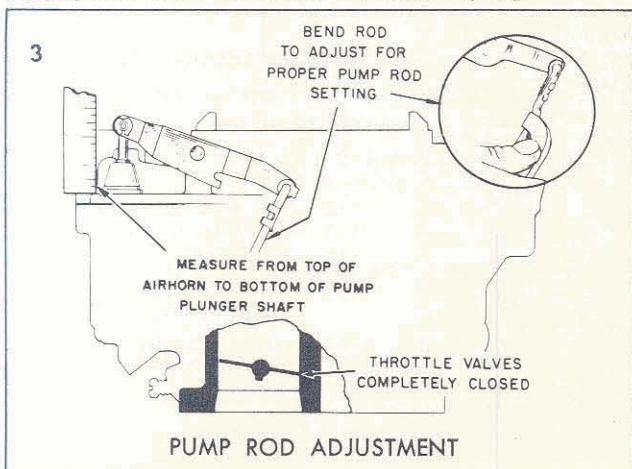
1952 SETTING 1-3/8" GAUGE BT-66
 1953 SETTING 1-9/16" GAUGE BT-87

With air horn gasket in place, position gauge over floats and against curvature in air horn bore. Bend float arms at rear of assembly so floats just touch gauge, then bend float arms horizontally to center each pontoon between gauge legs. Repeat on opposite floats.



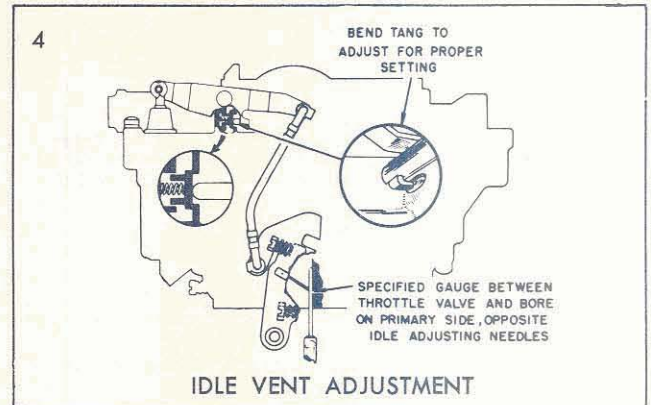
1952 SETTING 1-15/16" USE SCALE
 1953 SETTING 2-1/4" USE SCALE

Bend the float tang as required to obtain correct distance from the gasket surface to the bottom of the float, with the float hanging free. *Note:* 1952 floats use balance spring.



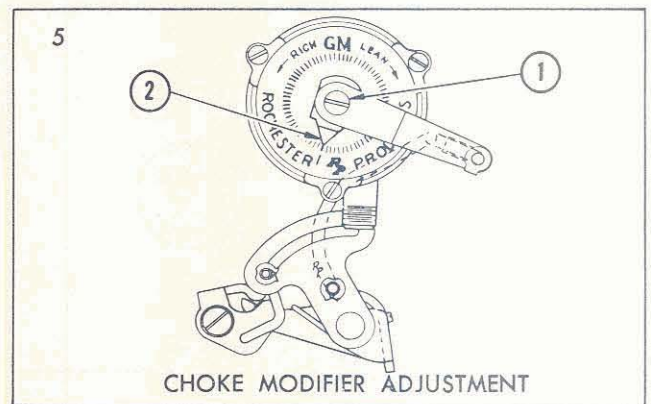
SETTING 1-1/16" TOOL BT-18

With the fast idle and idle stop screws backed off and the throttle valves completely closed, bend the pump rod as shown to obtain the proper measurement from the top of the air horn casting to the bottom of the pump plunger shaft.



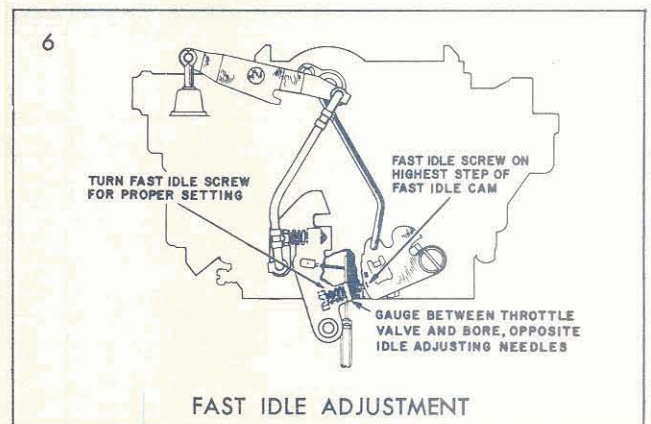
SETTING .040" GAUGE BT-67

With the primary throttle valves closed against a wire gauge, bend the idle vent tang with bending tool BT-69 so that the tang just touches the face of the valve when in the closed position.



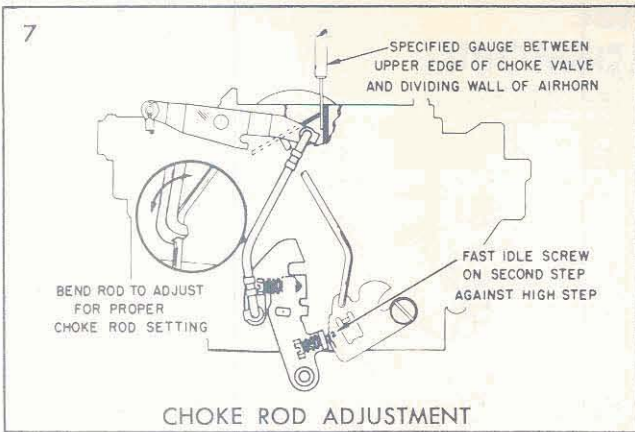
SETTING INDEX

With the throttle valves fully closed, loosen the center lock screw (1) and rotate the index pointer (2) counterclockwise until the choke valve closes and the pointer is positioned as above. Tighten the lock screw securely.



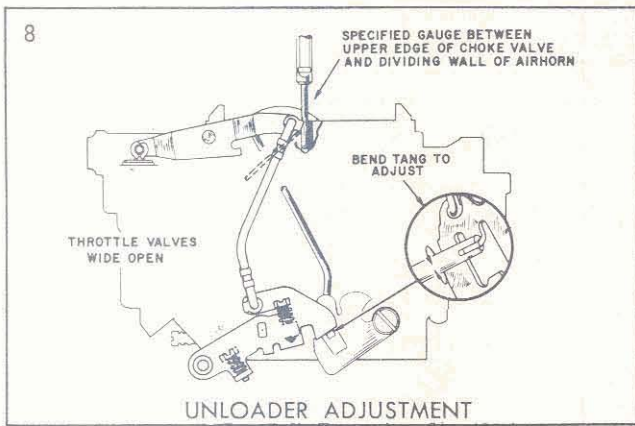
SETTING .020" GAUGE BT-67

Turn the fast idle screw against the high step of the fast idle cam until the specified gauge just fits between the throttle valve and bore, opposite the idle adjusting needles. This is a bench setting only, to provide an initial fast idle when the car is first started; when the engine reaches operating temperature, adjust the proper fast idle rpm with a tachometer. Fast idle set 1450 R.P.M. on high step of cam, transmission in neutral.



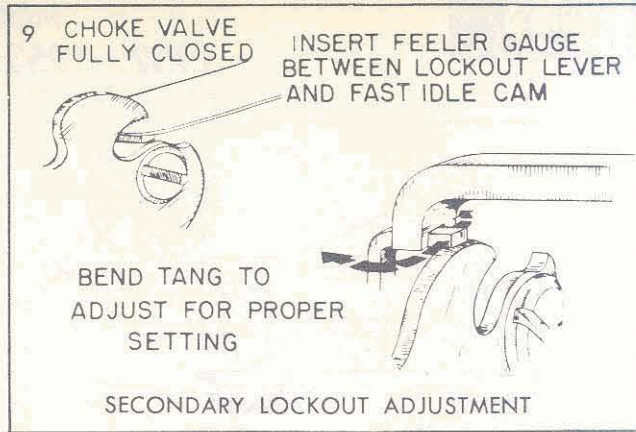
SETTING .053" GAUGE BT-68

With the fast idle screw resting on the 2nd step and against the high step of the fast idle cam, bend the choke rod as shown to obtain proper clearance between the choke valve edge and the dividing air horn wall. Use Tool BT-18.



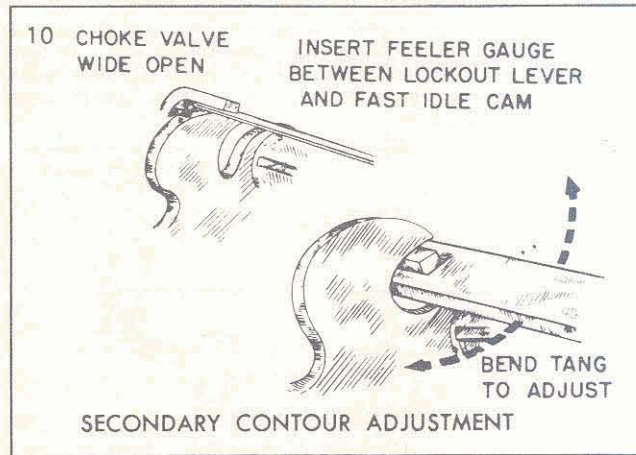
SETTING .092" GAUGE BT-68

Bend the unloader on the fast idle cam to obtain proper clearance between the choke valve edge and the dividing air horn wall with the throttle valves wide open. Use Tool BT-69.



SETTING .015, USE TOOL BT-91

With the *choke valve fully closed*, bend the lockout lever as shown to obtain .015 clearance between the cam and the widest surface of the lockout lever at the point shown.



SETTING .035" TOOL NO. BT-91

With the choke valve held wide open and the fast idle cam and secondary lockout lever in position as shown, there should be a clearance of .035" between the lever and cam.

Using bending tool BT-91 bend the lever tang to obtain the proper clearance.

QUICK REFERENCE ADJUSTMENTS

ADJUSTMENT	7004300 7004800			7005600 7005700 7006250		
	PRIM.	SEC.	GAUGE	PRIM.	SEC.	GAUGE
FLOAT LEVEL	1-3/8	1-3/8	BT-66	1-9/16	1-9/16	BT-87
FLOAT DROP	1-15/16	1-15/16	SCALE	2-1/4	2-1/4	SCALE
PUMP ROD	1-1/16	—	SCALE	1-1/16	—	SCALE
IDLE VENT	.040	—	BT-67	.040	—	BT-67
AUTO. CHOKE	INDEX	—	—	INDEX	—	—
FAST IDLE	.020	—	BT-67	.020	—	BT-67
CHOKE ROD	.053	—	BT-68	.053	—	BT-68
UNLOADER	.092	—	BT-68	.092	—	BT-68
SEC. LOCK-OUT	.015	—	FEELER	.015	—	FEELER
SEC. CONTOUR	.035	—	FEELER	.035	—	FEELER

TUNE-UP SPECIFICATIONS

SPARK PLUG GAP — .030"
BREAKER POINT GAP — .016"
CAM DWELL—26°-33°
IGNITION TIMING —
1952 — 5° BTDC @ 800 R.P.M.
1953 — 5° BTDC @ 850 RPM
IDLE R.P.M. —
1952 — SYN. 425 (N)
HYD. 375 (DR)
1952 — SYN. 425 (N)
HYD. 375 (DR)

NOTE: For complete carburetor specifications, refer to 9D-1 Section of the Parts and Service Manual.

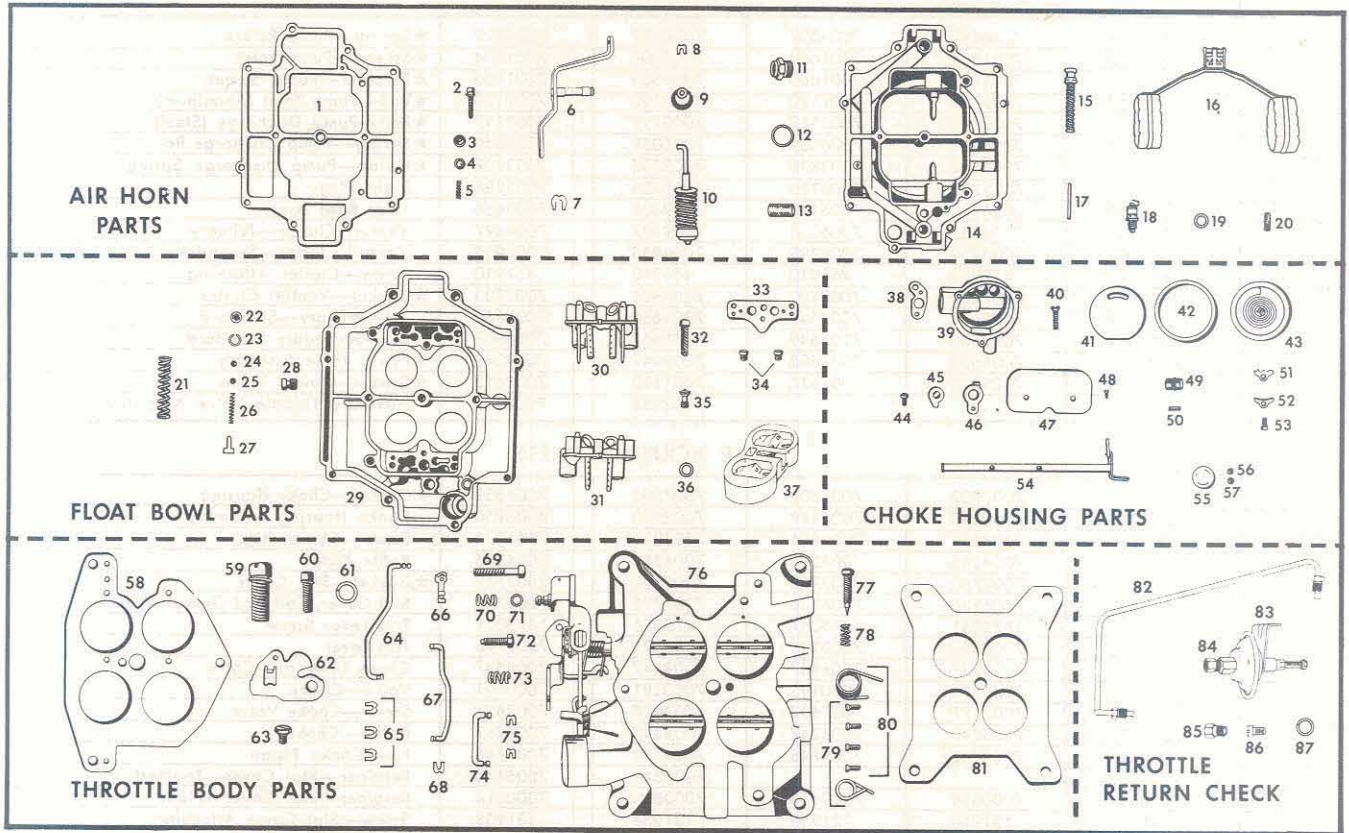
Refer to Bulletin 9D-9 for basic operation and overhaul procedures.



Rochester Carburetors

MODEL 4GC

1954-1955-1956 OLDSMOBILE



PARTS SHOWN ARE FOR IDENTIFICATION ONLY. CONSULT PARTS LIST FOR CORRECT PART NAME AND NUMBER

	1954	1954-55	1955	1956		YEAR
	HYDRAMATIC	SYNCHROMESH	HYDRAMATIC	SYNCHROMESH	HYDRAMATIC	APPLICATION
	7005900	7006000	7007000	7007222	7007221	CARBURETOR No.
	7005900	7006000	7007000	7009902	7009902	REPLACEMENT No.
	7009318	7009318	7009318	7009926	7009926	REPAIR KIT COMPLETE
	7009292	7009292	7009292	7009946	7009946	GASKET KIT COMPLETE
	7006133	7006133	7006133	None	None	REPAIR KIT W/O GASKETS
	7007134	7007134	7007134	None	None	GASKET KIT W/O FLANGE GASKET

Illus. No.	AIR HORN PARTS					
1	7006061	7006061	7006061	7006061	7006061	★ Air Horn Gasket
2	7000249	7000249	7000249	7000249	7000249	Screw—Air Horn Attaching
3	7004527	7004527	7004527	7004527	7004527	Idle Vent Valve
4	7004528	7004528	7004528	7004528	7004528	Idle Vent Valve Guide
5	7004529	7004529	7004529	7004529	7004529	Idle Vent Valve Spring
6	7007617	7007617	7007617	7007617	7007617	Pump Shaft and Lever Assy.
7	7007616	7007616	7007616	7007616	7007616	★ Clip—Pump Shaft
8	7005032	7005032	7005032	7005032	7005032	★ Clip—Pump Plunger
9	7006372	7006372	7006372	7006372	7006372	★ Boot—Pump Plunger
10	7000208	7000208	7000208	7000208	7000208	★ Pump Assy.
11	7000262	7000262	7000262	7000262	7000262	Strainer Nut
12	7001597	7001597	7001597	7001597	7001597	★ Gasket—Strainer Nut
13	7003083	7003083	7003083	7003083	7003083	★ Strainer—Fuel Inlet
14	7006129	7006129	7006129	7009463	7009463	Air Horn Assy.
15	7000204	7000204	7000204	7000204	7000204	Piston—Power
16	7000199	7000199	7000199	7000199	7000199	Float Assy.
17	7001595	7001595	7001595	7001595	7001595	Pin—Float Hinge
18	7006134	7006134	7006134	7006134	7006134	★ Needle and Seat Assy.
19	7001613	7001613	7001613	7001613	7001613	★ Needle and Seat Gasket
20	7006079	7006079	7006079	7006079	7006079	★ Strainer—Needle Seat

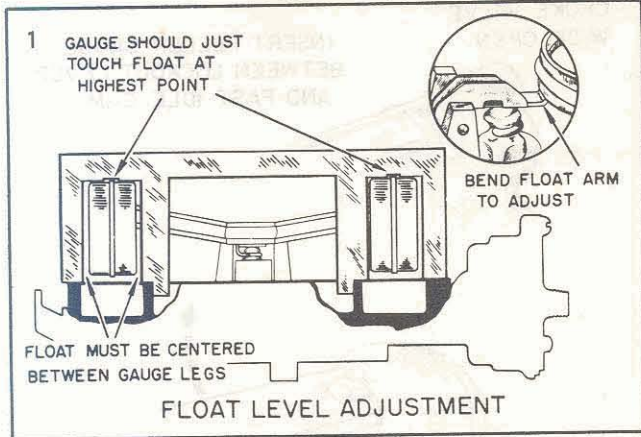
	1954	1954-55	1955	1956		YEAR
	HYDRAMATIC	SYNCROMESH	HYDRAMATIC	SYNCROMESH	HYDRAMATIC	APPLICATION
	7005900	7006000	7007000	7007222	7007221	CARBURETOR No.

Illus. No.	FLOAT BOWL PARTS					
21	7004597	7004597	7004597	7004597	7004597	★Spring—Pump Return
22	7001604	7001604	7001604	7001604	7001604	★Screen—Pump Inlet
23	7001605	7001605	7001605	7001605	7001605	★Retainer—Pump Screen
24	7002120	7002120	7002120	7002120	7002120	★Ball—Pump Inlet (Aluminum)
25	7002117	7002117	7002117	7002117	7002117	★Ball—Pump Discharge (Steel)
26	7006059	7006059	7006059	7006059	7006059	★Spring—Pump Discharge Ball
27	7003838	7003838	7003838	7003838	7003838	★Guide—Pump Discharge Spring
28	7005286	7005286	7005286	7005286	7005286	Sight Plug
29	7006130	7006130	7006130	7009466	7009466	Float Bowl Assy.
30	7006055	7006055	7006055	7009497	7009497	Venturi Cluster—Primary
31	7006299	7006459	7006299	7008955	7008955	Venturi Cluster—Secondary
32	451910	451910	451910	451910	451910	Screw—Cluster Attaching
33	7007803	7007803	7007803	7007803	7007803	★Gasket—Venturi Cluster
34	7002649	7002649	7002649	7001860	7001860	Jet—Primary—Standard
34	7002649	7002639	7002649	7008667	7008667	Jet—Secondary Standard
35	7001608	7001608	7001608	7009349	7009349	★Power Valve Assembly
36	7001613	7001613	7001613	7001613	7001613	★Gasket—Power Valve
37				7008958	7008958	Auxiliary Throttle Valve Assembly

CHOKE HOUSING PARTS						
38	7007502	7007502	7007502	7007502	7007502	★Gasket—Choke Housing
39	7000248	7000248	7000248	7008950	7008950	Choke Housing Assembly
40	7004821	7004821	7004821	7004821	7004821	Screw—Choke Hsg.
41	7004285	7004285	7004285	7004285	7004285	Baffle Plate
42	7002760	7002760	7002760	7002760	7002760	★Gasket—Stat Cover
43	7006136	7006136	7006136	7009792	7009792	Stat Cover, Coil and Gasket Assembly
44	1875051	1875051	1875051	1875051	1875051	Trip Lever Screw
45	7000196	7000196	7000196	7000196	7000196	Trip Lever
46	7006837	7006837	7006837	7008547	7008547	Choke Lever and Collar
47	7000191	7000191	7000191	7000191	7000191	Valve—Choke
48	7007627	7007627	7007627	7007627	7007627	Screw—Choke Valve
49	7005972	7008247	7008247	7008247	7008247	Piston—Choke
50	7004748	7004748	7004748	7004748	7004748	Pin—Choke Piston
51				7006846	7006846	Retainer—Stat Cover—Toothed
52	7000614	7000614	7000614	7000614	7000614	Retainer—Stat Cover—Plain
53	131958	131958	131958	131958	131958	Screw—Stat Cover Attaching
54	7000189	7000189	7000189	7000189	7000189	Choke Shaft and Lever Assembly
55	7003135	7003135	7003135	7003135	7003135	Plug—Expansion
56	7002814	7002814	7002814	7002814	7002814	Plug—Lead Ball (Small)
57	7001637	7001637	7001637	7001637	7001637	Plug—Lead Ball (Large)

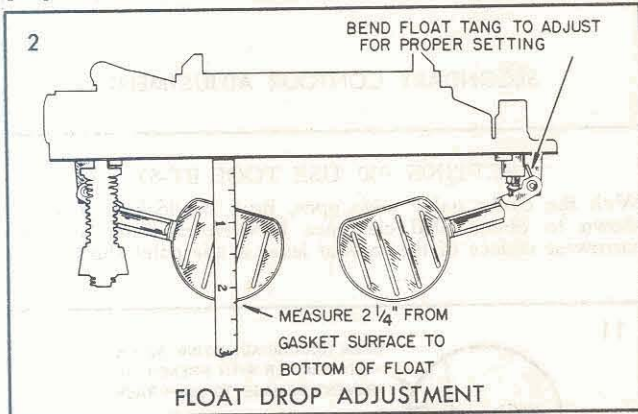
THROTTLE BODY PARTS						
58	7006887	7006887	7006887	7009256	7009256	★Gasket—Throttle Body
59	7004324	7004324	7004324	7004324	7004324	Screw—Throttle Body—Large
60	7005188	7005188	7005188	7005188	7005188	Screw—Throttle Body—Small
61	121744	121744	121744	121744	121744	Lockwasher—Small Screw
62	7004395	7004395	7004395	7004395	7004395	Cam—Fast Idle
63	7003561	7003561	7003561	7003561	7003561	Screw—Fast Idle Cam Attaching
64	7006835	7006835	7006835	7006835	7006835	Choke Rod
65	7005032	7005032	7005032	7005032	7005032	★Clip—Choke Rod
66	7003137	7003137	7003137	7003137	7003137	★Clip—Pump Rod—Upper
67	7000246	7000246	7000246	7000246	7000246	Pump Rod
68	7005032	7005032	7005032	7005032	7005032	★Clip—Pump Rod—Lower
69	7001619	7001619	7006959	7006959	7006959	Screw—Idle Stop
70	7003176	7003176	7003176	7003176	7003176	Spring—Idle Stop Screw
71			1901800	1901800	1901800	Washer—Spring Retaining
72	7003122	7003122	7003122	7003122	7003122	Screw—Fast Idle Adjusting
73	7003176	7003176	7003176	7003176	7003176	Spring—Fast Idle Adjusting Screw
74	7000241	7000241	7000241	7000241	7000241	Link—Sec. Lever
75	7005032	7005032	7005032	7005032	7005032	★Clip—Sec. Lever Link
76	7006132	7006132	7007135	7009467	7009467	Throttle Body Assy.
77	7004402	7004402	7004402	7004402	7004402	★Needle—Idle Adjusting
78	7003190	7003190	7003190	7003190	7003190	Spring—Idle Adjusting Needle
79	7006479	7006479	7006479			Sec. Throttle Ret. Spring and Screws Kit
80	7006478	7006478	7006478			Shaft Override Spring and Screws Kit
81	568292	568292	568292	568292	568292	★Gasket—Flange

THROTTLE RETURN CHECK PARTS						
82				7008976		Tube and Nuts Assy. (1)
83				7008980		Throttle Return Check Assy.
84				7008987		Check Valve Assy.
85				148072		Connector—Tube
86				7008480		Screw—Return Check Mounting (1)
87				120380		Lockwasher—Mounting Screw (1)



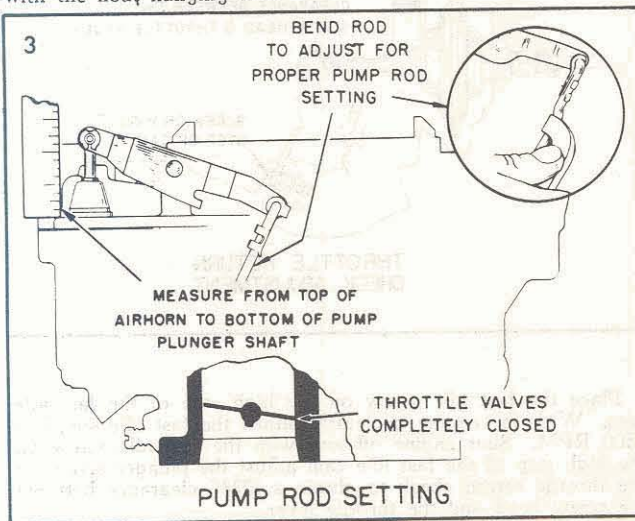
SETTING $1\frac{5}{8}$ ", USE GAUGE BT-89

With air horn gasket in place, position gauge over floats and against curvature in air horn bore. Bend float arms at rear of assembly so floats just touch gauge, then bend float arms horizontally to center each pontoon between gauge legs. Repeat on opposite floats.



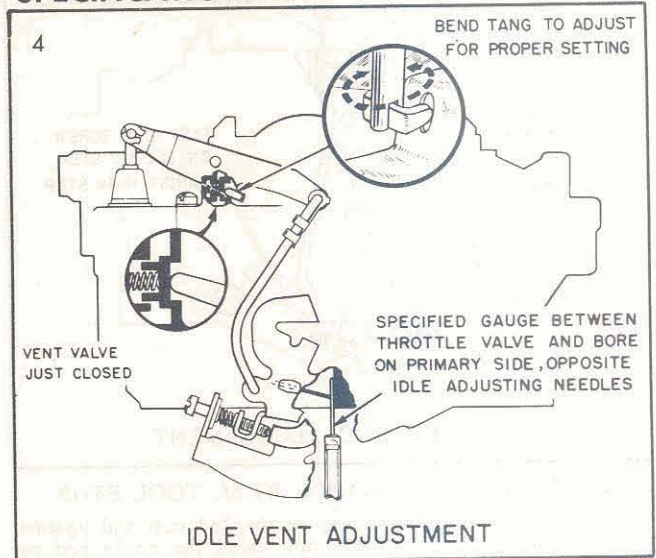
SETTING 2-1/4", USE GAUGE BT-93 OR SCALE

Bend the float tang as required to obtain a distance of $2\frac{1}{4}$ " from the gasket surface to the bottom of the float, with the float hanging free.



SETTING $1\frac{1}{16}$ ", USE TOOL BT-18

With the fast idle and idle stop screws backed off and the throttle valves completely closed, bend the pump rod as shown to obtain a measurement of $1\frac{1}{16}$ " from the top of the air horn casting to the bottom of the pump plunger shaft.



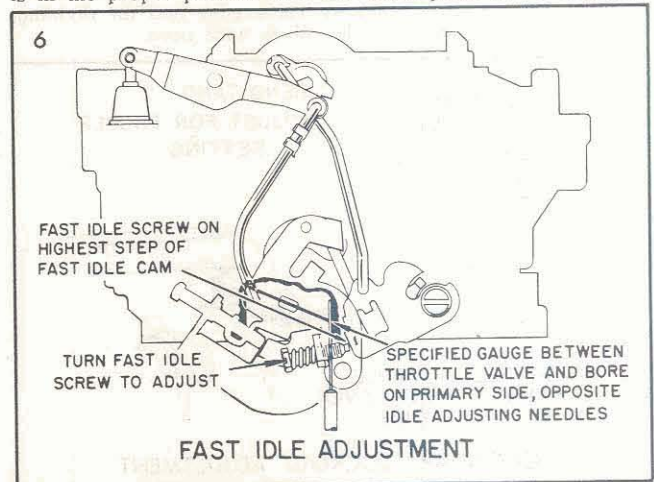
With the primary throttle valves closed against a .063 wire gauge (BT-79), bend the idle vent tang with Bending Tool BT-69 so that the tang just touches the face of the valve.



7005900, 7007000—SETTING INDEX

7006000, 7007221, 7007222—SETTING—1 NOTCH LEAN

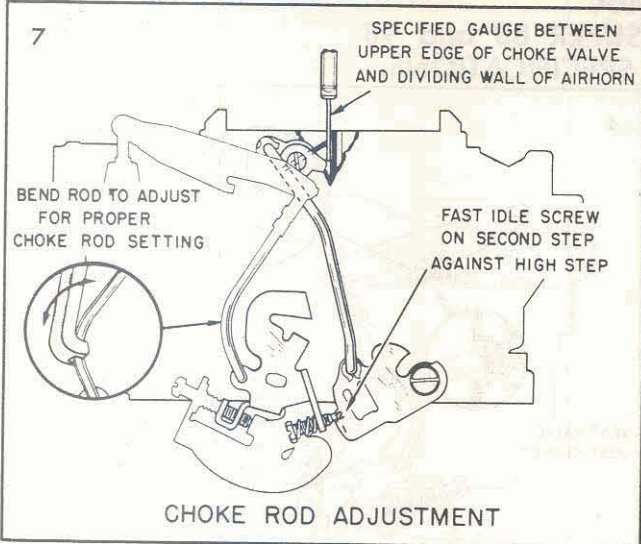
Loosen the three retaining screws and rotate the stat cover counterclockwise against the coil tension until the index mark is in the proper position with the index point on the housing.



SETTING .024, USE GAUGE BT-90

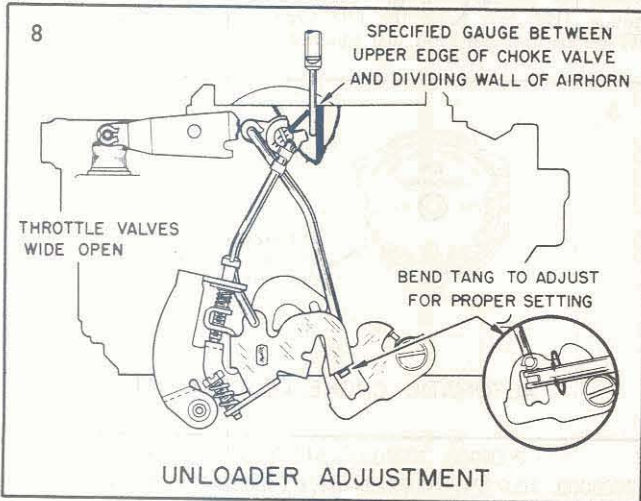
1500 R.P.M.

Turn the fast idle screw against the highest step of the fast idle cam, to obtain a clearance of .024 between the throttle valve and bore, opposite the idle adjusting needles.



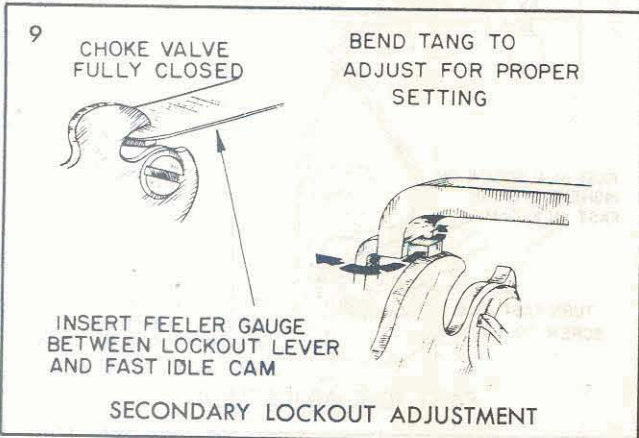
SETTING .052, USE GAUGE BT-68, TOOL BT-18

With the fast idle screw resting on the 2nd step and against the high step of the fast idle cam, bend the choke rod as shown to obtain a clearance of .052" between the choke valve edge and the dividing air horn wall.



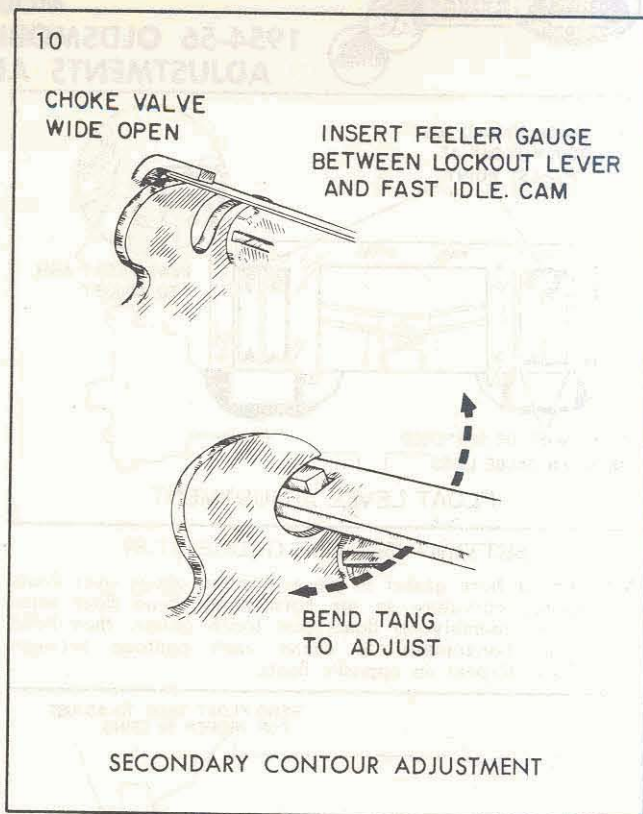
SETTING .115, USE TOOL BT-69, GAUGE BT-90

Bend the unloader tang on the fast idle cam to obtain a clearance of .115 between the choke valve edge and the dividing air horn wall with the throttle valves wide open.



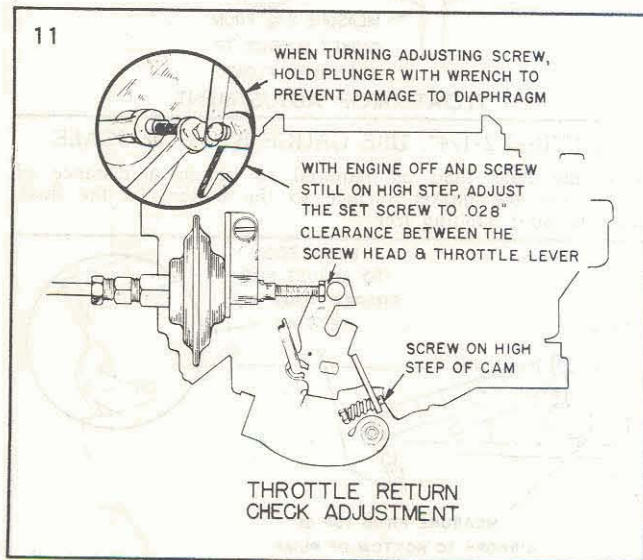
SETTING .015, USE TOOL BT-91-A

With the *choke valve fully closed*, bend the lockout lever as shown to obtain .015 clearance between the cam and the widest surface of the lockout lever at the point shown.



SETTING .030, USE TOOL BT-69

With the *choke valve wide open*, bend the lockout lever as shown to obtain .030 clearance between the cam and the narrowest surface of the lockout lever at the point shown.



Place the fast idle screw on the high step of the fast idle cam. With the engine in neutral adjust the fast idle speed to 1500 RPM. Shut engine off and with the fast idle screw on the high step of the fast idle cam adjust the plunger screw on the throttle return check to obtain a .028" clearance between the screw head and the throttle lever.

CAUTION: Always hold the plunger with a wrench while adjusting the screw to avoid damage to the diaphragm.



Rochester Carburetors

MODEL 4GC

1954 - 56 OLDSMOBILE "SUPER 88" - "98"

ADJUSTMENTS AND SPECIFICATIONS

BULLETIN 9C-504

PAGE 5 OF 5

DATE: 2-15-57

QUICK-REFERENCE SPECIFICATIONS

Carburetor No.	7005900 H.T. 7007000 H.T.		7006000 Syn.		7007221 H.T. 7007222 Syn.		TOOL No.
	PRIM.	SEC.	PRIM.	SEC.	PRIM.	SEC.	
SMALL VENTURI	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	
LARGE VENTURI	1-1/64"	57/64"	1-1/64"	57/64"	1 1/8"	1 1/4"	
MAIN METERING JETS	.049	.049	.049	.039	.055	.067	
IDLE NEEDLE HOLES	.040	—	.040	—	.046	—	
IDLE HOLES — FIRST	.031	—	.031	—	.030	—	
IDLE HOLES — SECOND	.026	—	.026	—	.026	—	
SPARK DRILLINGS	.070	—	.070	—	.070	—	
PUMP DISCHARGE HOLES	.026	—	.026	—	.026	—	
POWER RESTRICTIONS	.030	—	.030	—	.048	—	
CHOKE RESTRICTION	.086	—	.086	—	.093	—	
IDLE TUBE RESTRICTION	.030	—	.030	—	.033	—	
LOWER IDLE BLEED	.040	—	.040	—	.040	—	
ADJUSTMENTS	DIMENSIONS		DIMENSIONS		DIMENSIONS		TOOL No.
FLOAT LEVEL	1 5/8"		1 5/8"		1 5/8"		BT-89
FLOAT DROP	2 1/4"		2 1/4"		2 1/4"		BT-93 OR SCALE
PUMP ROD	1-1/16"		1-1/16"		1-1/16"		SCALE
IDLE VENT	.063		.063		.063		BT-79
AUTO CHOKE	INDEX		1 NOTCH LEAN		1 NOTCH LEAN		—
FAST IDLE	.024		.024		.024		BT-90
CHOKE ROD	.052		.052		.052		BT-68
UNLOADER	.115		.115		.115		BT-90
SECONDARY LOCKOUT	.015		.015		.015		FEELER GAUGE
SECONDARY CONTOUR	.030		.030		.030		FEELER GAUGE
THROTTLE RETURN CHECK	—		—		.028		FEELER GAUGE

TUNE-UP SPECIFICATIONS 1954-56	
SPARK PLUG GAP	.030
BREAKER POINT GAP	.016
CAM DWELL	26° — 33°
IGNITION TIMING	5° B.T.C. AT 850 R.P.M. WITH DIST. VACUUM LINE DISCONNECTED
TAPPET CLEARANCE	HYDRAULIC
IDLE — R.P.M.	HYDRAMATIC 400 R.P.M. IN "DRIVE" SYNCHROMESH 425 R.P.M. IN "NEUTRAL"
FAST IDLE — R.P.M.	1500 R.P.M.

CARBURETOR TOOLS AND GAUGES AS LISTED ARE AVAILABLE THROUGH UMS DISTRIBUTORS

A GENERAL MOTORS PRODUCT



A UNITED MOTORS-AC LINE

UNITED MOTORS SERVICE—AC DIVISION, GENERAL MOTORS PRODUCTS OF CANADA LIMITED, OSHAWA, ONTARIO

