



# Rochester Carburetors

## MODEL BB

### 1951 CADILLAC

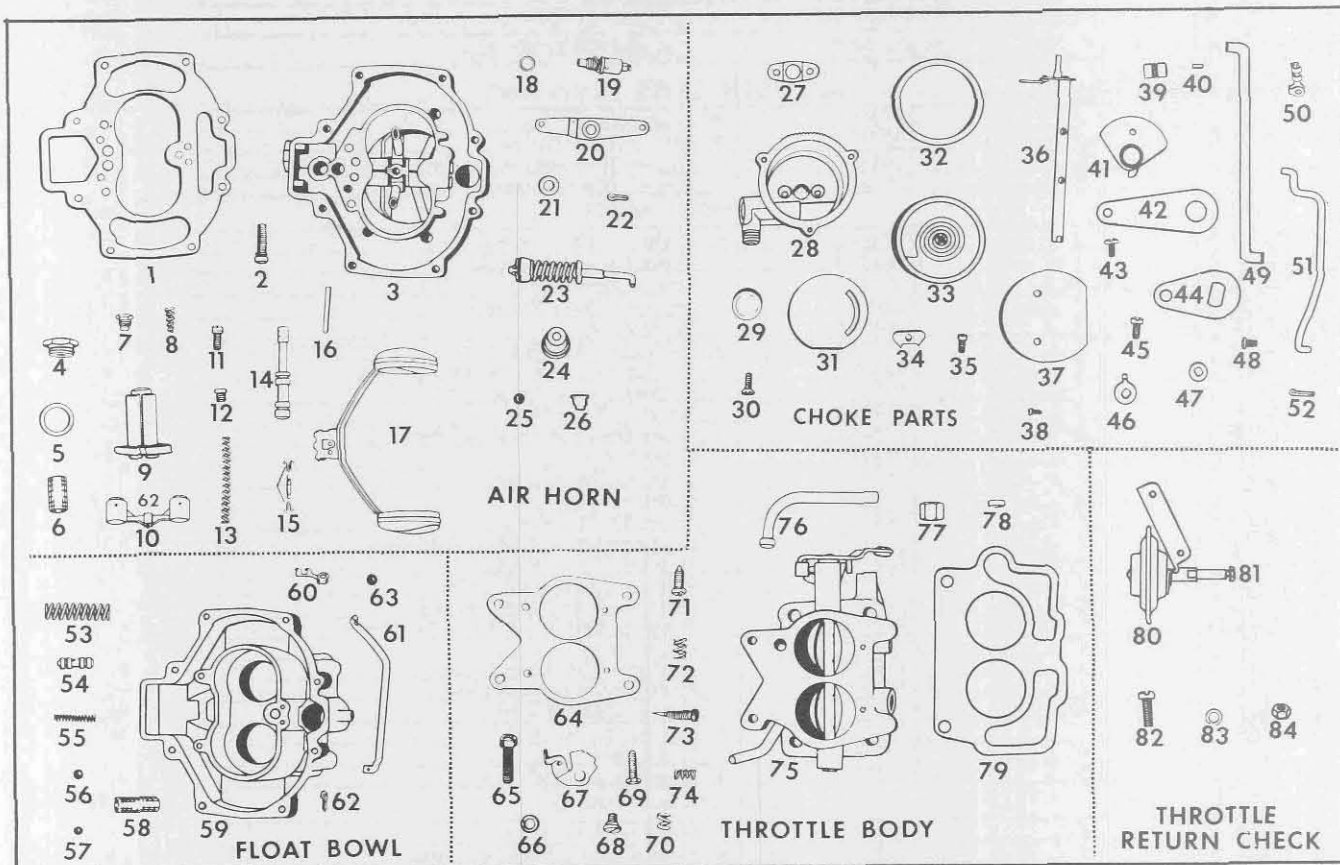
BULLETIN 9C-200

PAGE 1 OF 4

DATE: AUGUST 1958

REPLACES:

9C-200, 4/1/53

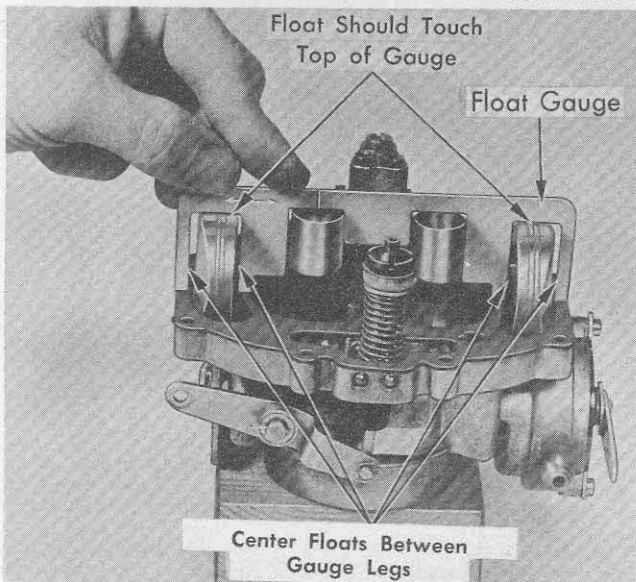


PARTS SHOWN ARE FOR IDENTIFICATION ONLY. CONSULT PARTS LIST FOR CORRECT PART NAME AND NUMBER

	1951	YEAR
	HYDRAMATIC	APPLICATION
	7004200	CARBURETOR No.
	7004200	REPLACEMENT CARBURETOR No.
	7009299	REPAIR KIT WITH GASKETS
	7008739	GASKET KIT WITH FLANGE GASKET
	7001399	REPAIR KIT W/O GASKETS
Illus. No.	AIR HORN PARTS	
	1	7003082 ★ Gasket Air Horn
	2	7003130 Screw — Air Horn Attaching
	3	7003154 Air Horn Assembly
	4	7002862 Nut — Strainer
	5	7001597 ★ Gasket — Strainer Nut
	6	7003083 ★ Strainer — Fuel Inlet
	7	7001125 ★ Plug — Power Valve Spring Seat
	8	7001126 ★ Spring — Power Valve
	9	7003195 Main Well Support Assembly
	10	7003203 Venturi Cluster Assembly
	11	7003132 Screw — Main Well and Venturi Cluster Attaching
	12	7002646 Jet — Standard
	13	7002897 Spring — Power Piston
	14	7001128 Power Piston
	15	7001850 ★ Float Balance Spring and Clip Assembly
	16	7001595 Pin — Float Hinge
	17	7003088 Float Assembly
	18	7001613 ★ Gasket — Needle Seat
	19	7001398 ★ Needle and Seat Assembly
	20	7003111 Pump Lever and Collar Assembly
	21	1887572 Washer — Pump Lever
	22	435864 ★ Cotter Pin — Pump Lever

	1951	YEAR
	HYDRAMATIC	APPLICATION
	7004200	CARBURETOR No.
Illus. No.	AIR HORN PARTS (Continued)	
23	7003098	★ Pump Assembly
24	7003147	★ Boat — Pump Plunger
25	7001637	Plug — Lead Ball — Idle Passage — Outer
26	7002055	Plug — Idle Passage — Inner
CHOKE PARTS		
27	7002841	★ Gasket — Choke Housing
28	7003155	Choke Housing Assembly
29	7003135	Plug — Expansion
30	7005654	Screw — Choke Housing
31	7003144	Baffle Plate
32	7002760	★ Gasket — Stat Cover
33	7001397	Stat Cover, Coil and Gasket Assembly
34	7000614	Retainer — Stat Cover
35	7010424	Screw — Stat Cover
36	7003092	Choke Shaft and Lever Assembly
37	7003094	Choke Valve
38	7007627	Screw — Choke Valve
39	7002853	Piston — Choke
40	7002854	Pin — Choke Piston
41	7003159	Counterweight and Collar Assembly
42	7003166	Lever — Choke Modifier
43	7010434	Screw — Choke Modifier Lever
44	7003180	Lever — Throttle Shaft Modifier
45	7010435	Screw — Throttle Shaft Modifier Lever
46	7003097	Trip Lever
47	1875354	Washer — Trip Lever Spacer
48	1875051	Screw — Trip Lever, Attaching
49	7003183	Rod — Choke Modifier
50	7003137	★ Clip — Modifier Rod
51	7003182	Choke Rod
52	7000006	★ Cotter Pin — Choke Rod
FLOAT BOWL PARTS		
53	7002101	★ Spring — Pump Return
54	7003140	★ Piston — Pump Discharge Check
55	7003700	★ Spring — Pump Discharge Check
56	7002117	★ Ball — Pump Discharge Check
57	7002120	★ Ball — Pump Inlet Check
58	7002866	★ Strainer — Pump Inlet
59	7001396	Float Bowl Assembly
60	7003242	★ Clip — Pump Rod
61	7003181	Pump Rod
62	7000006	★ Cotter Pin — Pump Rod
63	7002814	Plug — Lead Ball
THROTTLE BODY PARTS		
64	7003127	★ Gasket — Throttle Body
65	7005188	Screw — Throttle Body
66	121744	Lockwasher — Throttle Body Screw
67	7003178	Cam — Fast Idle
68	7003561	Screw — Cam Attaching
69	7003175	Screw — Idle Stop
70	7003176	Spring — Idle Stop Screw
71	7003185	Screw — Fast Idle
72	7001690	Spring — Fast Idle Screw
73	7003184	★ Needle — Idle Adjusting
74	7003190	Spring — Idle Needle
75	7003208	Throttle Body Assembly
76	7002902	Choke Suction Tube Assembly
77	7012002	Nut — Choke Suction Tube
78	7002883	★ Packing — Choke Suction Tube
79	1456933	★ Gasket — Flange
THROTTLE RETURN CHECK PARTS		
80	7004073	Throttle Return Check Assembly
81	7003234	Contact Screw
82	7004079	Screw — Check Attaching
83	120614	Nut — Check Attaching
84	120217	Lockwasher — Check Attaching





#### FLOAT LEVEL ADJUSTMENT

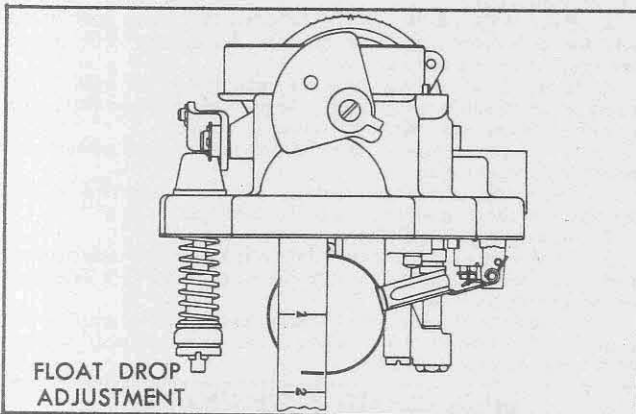
SETTING 1-1/8" USE GAUGE BT-51

With air horn gasket in position and air horn inverted on a flat surface:

Place float gauge in position as shown, with locating tangs inserted into the secondary venturis to position gauge.

Bend float arms at rear, until the floats just touch the top portion of gauge between the gauge legs.

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



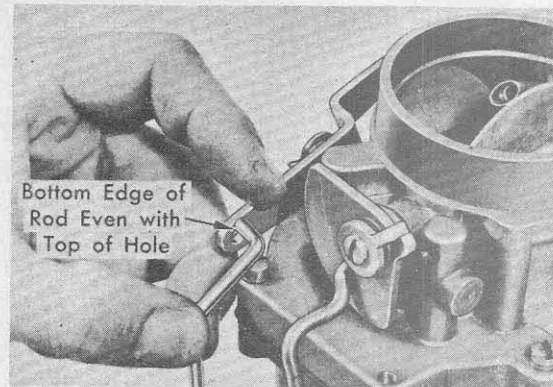
SETTING 1-19/32", USE SCALE

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: 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 1-19/32" scale dimension. **CAUTION:** Do not use scribe line on float gauge for making this adjustment.

SETTING .024", USE GAUGE BT-48

Partially open throttle valves and close choke valve. Then move throttle lever to closed position so that fast idle screw rests on high step of fast idle cam. Then adjust fast idle screw to obtain a clearance of .024 between throttle valves and bore of throttle body on the side opposite the idle screws. If this adjustment is made on engine, set fast idle to 1500 RPM. in neutral, with engine warm.

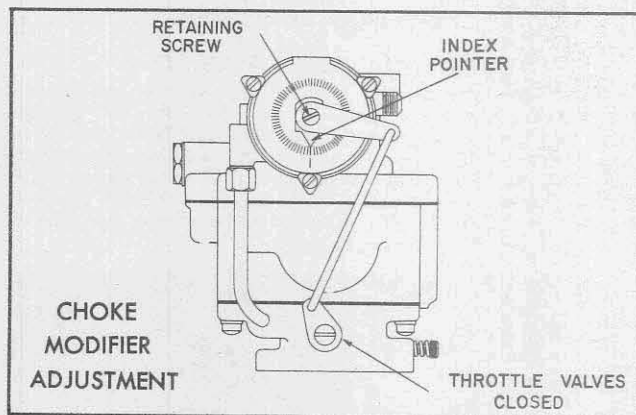
CO, WD, 131, 149, 9X, 9FR, 9FD



#### PUMP ROD ADJUSTMENT

Back off the idle stop screw. Hold the throttle valves fully closed. Remove the pump rod from the rocker arm and hold rocker arm down so that the pump plunger is in its extreme "up" position. With the 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.

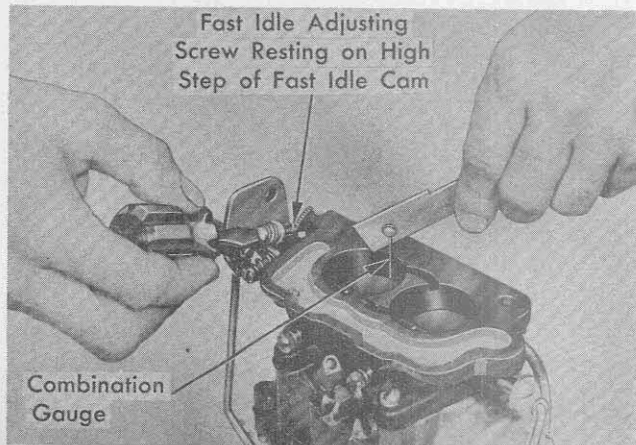
This insures correct pump delivery at all speeds and throttle openings.



SETTING — INDEX

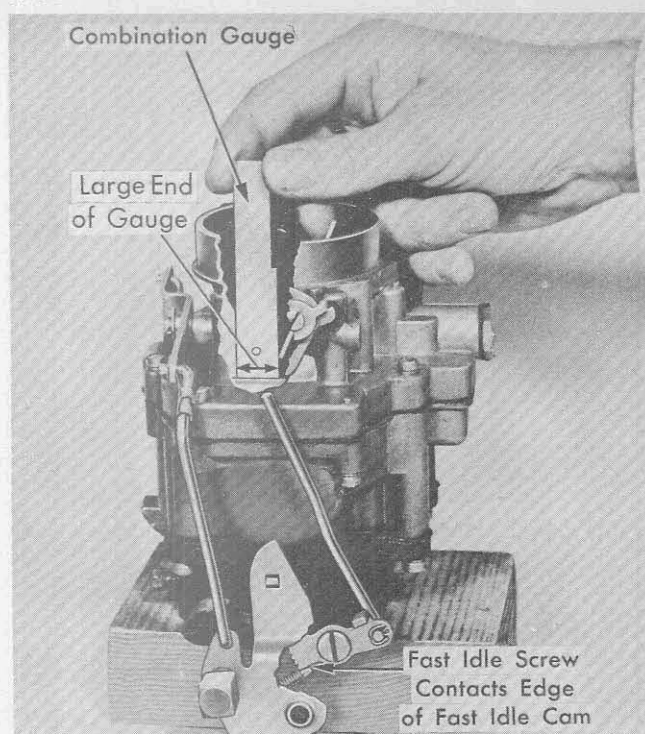
With the throttle valves held fully closed:

1. Loosen the modifier lever retaining screw.
2. Rotate the index pointer clockwise until it is set on index, that is, until the pointer is in direct alignment with the scribed index line on the stat cover.
3. With the modifier lever pointed away from the fuel inlet, tighten the retaining screw. **CAUTION:** Hold flats on pointer with wrench when tightening retaining screw.



#### FAST IDLE ADJUSTMENT

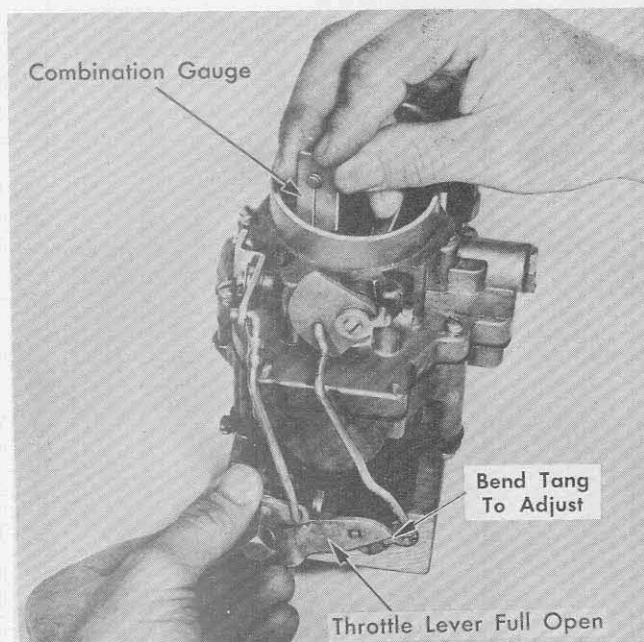




### CHOKE ROD ADJUSTMENT

SETTING .620", USE GAUGE BT-48

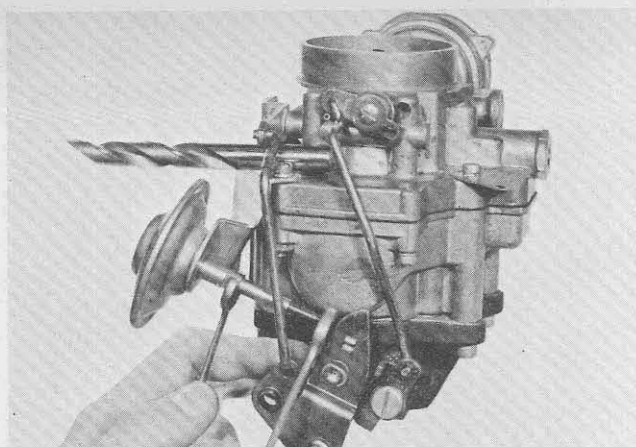
With choke modifier set, turn fast idle screw until tapered end contacts drop off edge of the low step of cam. Be sure choke trip lever is in contact with choke counterweight. With fast idle screw and fast idle cam in this position, bend choke rod until the large end of gauge (.620) just slides easily between lower edge of choke valve and flat on inside diameter of air horn. **CAUTION:** Choke rod must not rub side of housing at any choke valve position.



### UNLOADER ADJUSTMENT

SETTING .515", USE GAUGE BT-48

With choke modifier set and choke trip lever in contact with choke counterweight, move throttle lever to full open position. Hold throttle lever in this position and bend tang on fast idle cam until the small end of gauge (.515) just slides easily between lower edge of choke valve and flat on inside diameter of air horn.



### THROTTLE RETURN CHECK ADJUSTMENT

#### EARLY CARBURETOR

With carburetor assembled on engine manifold:

1. Check alignment of throttle return check adjusting screw with the contact arm of the throttle lever. If necessary bend the throttle return check bracket to center the adjusting screw on the contact arm.
2. Place a 27/64" drill (.422") between the pump rocker arm and the throttle return check bracket. Locate the drill against the head of the air horn screw.
3. Using a 3/8" wrench turn the adjusting screw until it just contacts the throttle lever contact arm. Hold flats on shaft with a wrench whenever adjusting screw is turned.

#### LATE CARBURETOR

Due to a minor change in design of the throttle return check bracket, all carburetors code tagged J-1 or later should be adjusted as follows:

With carburetor assembled on engine manifold:

1. Check alignment of throttle return check adjusting screw with the contact arm of the throttle lever. If necessary bend the throttle return check bracket to center the adjusting screw on the contact arm.
2. Place a 3/8" drill (.375") between the pump rocker arm and the throttle return check bracket. Locate the drill against the head of the air horn screw.
3. Using a 3/8" wrench turn the adjusting screw until it just contacts the throttle lever contact arm. Hold flats on shaft with a wrench whenever adjusting screw is turned.

As an alternate method, the throttle return check adjustment may be made as follows:

1. With the carburetor and air cleaner assembled on the engine, run the engine until it is warmed up.
2. Adjust the idling RPM.
3. Then with the emergency brake fully on and one foot on the brake pedal, kick the throttle wide open and then release it as rapidly as possible.
4. Adjust the throttle return check contact screw until it just contacts the throttle lever early enough to prevent stalling under the above conditions.

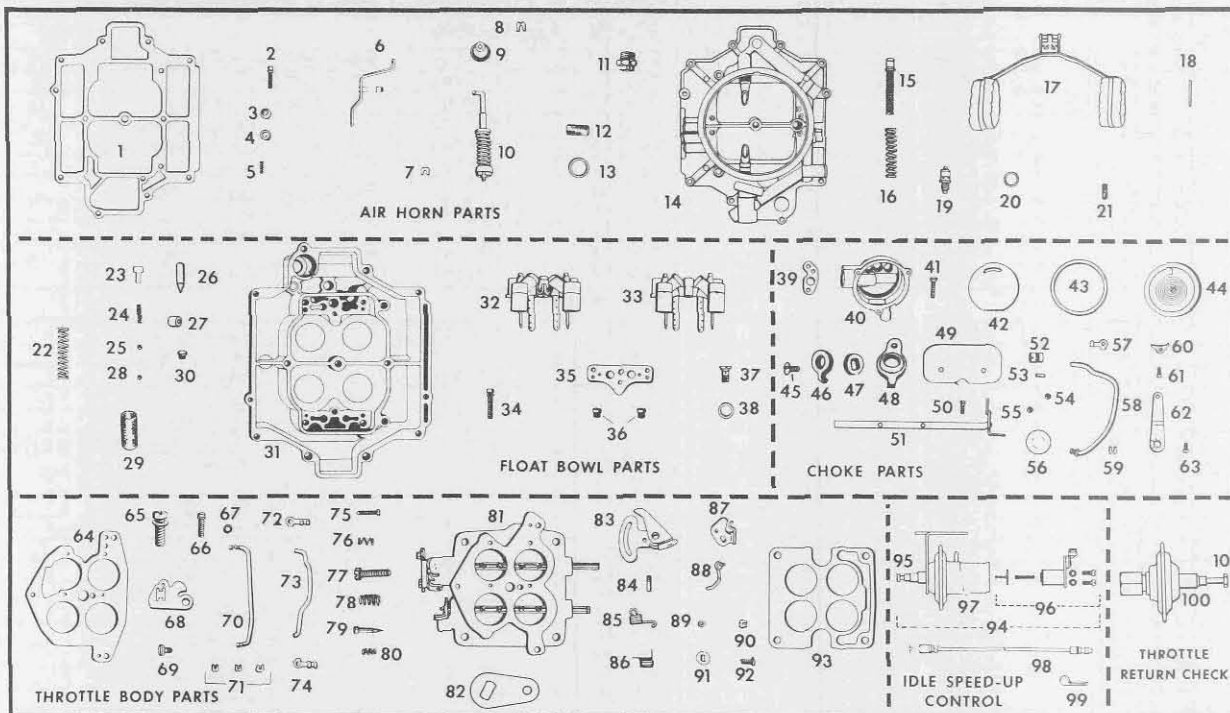
### QUICK REFERENCE SPECIFICATIONS

CARBURETOR SPECS.	7004200	TUNE-UP
Bore	1-11/16"	Spark Plug Gap—.035" Breaker Point Gap—.013" Cam Dwell—28° - 34° Ignition Timing—5° BTDC Idle R.P.M.—375 "DR" Fast Idle—1500 R.P.M.
Small Venturi	9/16"	
Large Venturi	1-3/32"	
Main Metering Jets	.046"	
Idle Needle Holes	.067"	
Sec. Discharge Holes	.040"	
Spark Drillings	.040"	
Pump Jets	.026"	
Power Restrictions	.046"	
Choke Restrictions	.093"	
Idle Restrictions—T.B.	.093"	
ADJUSTMENTS	DIM.	GAUGE NO.
Float Level	1-1/8"	BT-51
Float Drop	1-19/32"	Use Scale
Pump Rod	—	—
Choke Modifier	Index	—
Fast Idle	.024	BT-48
Choke Rod	.620	BT-48
Unloader	.515	BT-48



# Rochester Carburetors MODEL 4GC 1952, 1953, 1954 CADILLAC

BULLETIN 9C-201  
PAGE 1 OF 4  
DATE: AUGUST, 1958  
REPLACES:  
9C-201, 9C-202,  
9C-203, 9C-204



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

1952	1953		1954		YEAR
Hydramatic	Hydramatic	Dynaflow	Hydramatic Early	Hydramatic Late	APPLICATION
7004500	7005100	7006215	7006220	7006962	STANDARD CARBURETOR No.
—	—	—	7006221	7006963	AIR CONDITIONED CARB. No.
7004500	7005100	7005100	7006962	7006962	STD, CARB. REPLACEMENT No.
		7006214			
—	—	—	7015400	7015400	A/C CARB. REPLACEMENT No.
7009301	7009302	7009302	7009303	7009303	REPAIR KIT WITH GASKETS
7008745	7008745	7008745	7008746	7008746	GASKET KIT WITH FLANGE GASKET

Illus. No.	AIR HORN PARTS					
1	7004301	7004301	7006061	7006061	7006061	★Gasket — Air Horn
2	7003130	7003130	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	7006372	7006372	★Boot — Pump Plunger
10	7005967	7005967	7005967	7006232	7006232	★Pump Assembly
11	7002862	7002862	7002862	7000262	7000262	Strainer Nut
12	7003083	7003083	7003083	7003083	7003083	★Strainer — Fuel Inlet
13	7001597	7001597	7001597	7001597	7001597	★Gasket — Strainer Nut
14	7005585	7005585	7005585	7006373	7006373	Air Horn Assembly
15	7004302	7004302	7004302	7000204	7000204	Power Piston Assembly
16	7002366	7002897	7002897	—	—	Spring — Power Piston
17	7000199	7000199	7000199	7000199	7000199	Float Assembly
18	7001595	7001595	7001595	7001595	7001595	Pin — Float Hinge
19	7004779	7004779	7004779	7006376	7006376	★Needle and Seat Assembly
20	7001613	7001613	7001613	7001613	7001613	★Gasket — Needle Seat
21	—	—	—	7006079	7006079	★Strainer — Needle Seat

	FLOAT BOWL PARTS					
22	7004597	7004597	7004597	7004597	7004597	★Spring — Pump Return
23	—	7003838	7003838	7003838	7003838	★Guide — Pump Discharge
24	—	7002118	7002118	7002118	7002118	★Spring — Pump Discharge
25	—	7002117	7002117	7002117	7002117	★Ball — Pump Discharge
26	7001674	—	—	—	—	Valve — Pump Discharge
27	7004587	—	—	—	—	Pump Vent Check Valve Assembly
28	7002120	7002120	7002120	7002120	7002120	★Ball — Pump Inlet

CO, WD, 131, 149, 9X, 9FR, 9FD

★ REPAIR KIT CONTENTS



	1952	1953		1954		YEAR
	Hydramatic	Hydramatic	Dynaflow	Hyd Early	Hyd Late	APPLICATION
	7004500	7005100	7006215	7006220	7006962	STANDARD CARBURETOR No.
	—	—	—	7006221	7006963	AIR CONDITIONED CARB. No.

Illus.No.	FLOAT BOWL PARTS (Continued)					
29	7004557	7004557	7004557	7004557	7004557	★Screen — Pump Inlet
30	7005286	7005286	7005286	7005286	7005286	Sight Plug
31	7004687	7005586	7005586	7005586	7007004	Float Bowl Assembly
32	7004591	7006114	7006114	7006114	7006965	Venturi Cluster — Primary
33	7004672	7005560	7005560	7005560	7006966	Venturi Cluster — Secondary
34	451910	451910	451910	451910	451910	Screw — Cluster Attaching
35	7007803	7007803	7007803	7007803	7007803	★Gasket — Venturi Cluster
36	7002652	7002649	7002649	7002648	7002649	Jet — Primary
36	7002664	7002660	7002660	7002664	7002664	Jet — Secondary
37	7004659	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	7004554	7004554	7004554	7006229	7006229	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	7004689	7004689	7004689	7006393	7006393	Stat Cover, Coil and Gasket Assembly
45	1875051	1875051	1875051	1875051	1875051	Screw — Trip Lever
46	7003097	7003097	7003097	7000196	7000196	Trip Lever
47	1875354	1875354	1875354	—	—	Washer — Spacing
48	7004286	7004286	7004286	7000194	7000194	Choke Lever and Collar Assembly
49	7004284	7004284	7004284	7000191	7000191	Valve Choke
50	7007627	7007627	7007627	7007627	7007627	Screw — Choke Valve
51	7004281	7004281	7004281	7000189	7000189	Choke Shaft and Lever Assembly
52	7002853	7002853	7002853	7005972	7005972	Piston — Choke
53	7002854	7002854	7002854	7004748	7004748	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	7003137	7003137	7003137	7006242	7006242	★Clip — Modifier Rod
58	7004575	7004575	7004575	7006240	7006240	Modifier Rod
59	7003242	7003242	7003242	7005032	7005032	★Clip — Modifier Rod
60	7000614	7000614	7000614	7000614	7000614	Retainer — Stat Cover
61	7010424	7010424	7010424	7010424	7010424	Screw — Stat Cover
62	7004568	7004568	7004568	7004568	7004568	Lever — Choke Modifier
63	7010434	7010434	7010434	7010434	7010434	Screw — Modifier Lever

## THROTTLE BODY PARTS

64	7006887	7006887	7006887	7006887	7006887	★Gasket — Throttle Body
65	7004324	7004324	7004324	7004324	7004324	Screw — Throttle Body — Large
66	7005188	7005188	7005188	7005188	7005188	Screw — Throttle Body — Small
67	121744	121744	121744	121744	121744	Lockwasher — Small Screws
68	7004565	7004565	7004565	7006236	7006236	Fast Idle Cam
69	7003561	7003561	7003561	7003561	7003561	Screw — Cam Attaching
70	7004326	7004326	7004326	7006239	7006239	Choke Rod
71	7005032	7005032	7005032	7005109	7005109	★Clip — Choke Rod
72	7003137	7003137	7003137	7003137	7003137	★Clip — Pump Rod — Upper
73	7004567	7004567	7004567	7006238	7006238	Pump Rod
74	7003137	7003137	7003137	7003137	7003137	★Clip — Pump Rod — Lower
75	7003185	7003185	7003185	7003185	7003185	Fast Idle Screw
76	7001690	7001690	7001690	7001690	7001690	Spring — Fast Idle Screw
77	7001619	7001619	7001619	7001619	7001619	Screw — Idle Stop
78	7003176	7003176	7003176	7003176	7003176	Spring — Idle Stop Screw
79	7004402	7004402	7004402	7004402	7004402	★Idle Needle
80	7003190	7003190	7003190	7003190	7003190	Spring — Idle Needle
81	7004688	7005587	7005587	7007736	7007763	Throttle Body Assembly
82	7003180	7003180	7003180	—	—	Lever — Throttle Shaft Choke — Modifier
83	7004397	7004397	7004397	7006237	7006237	Lever — Secondary Actuating
84	7004399	7004399	7004399	7004399	7004399	Screw — Shaft Override Spring
85	7004398	7004398	7004398	7004398	7004398	Spring — Shaft Override
86	7005145	7005145	7005145	7005145	7005145	Spring — Secondary Throttle Return
87	7004612	7004612	7004612	7004612	7004612	Secondary Lever
88	7004401	7004401	7004401	7004401	7004401	Secondary Lever Link
89	7002287	7002287	7002287	7002287	7002287	Washer — Secondary Lever Link
90	7005109	7005109	7005109	7005109	7005109	★Clip — Secondary Lever Link
91	1875066	1875066	1875066	1875066	1875066	Washer — Secondary Lever
92	7010435	7010435	7010435	7010435	7010435	Screw — Secondary Lever Attaching
93	1462657	1462657	1462657	1462657	1462657	★Gasket — Flange

## IDLE SPEED UP CONTROL PARTS (Air Conditioned Only)

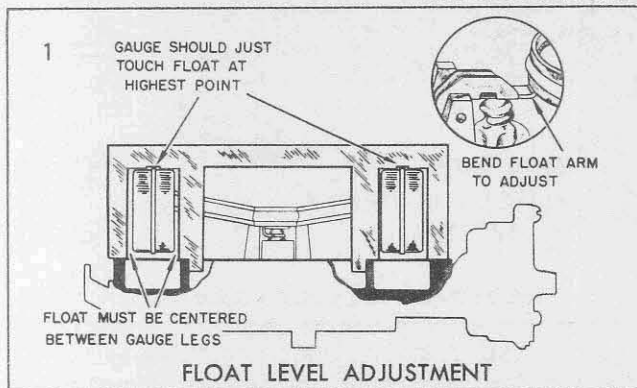
94	—	—	—	7006222	7006222	Idle Speed-up Control Assembly
95	—	—	—	7006254	7006254	Contact Screw
96	—	—	—	7010964	7010964	Solenoid Kit
97	—	—	—	7006275	7006275	Diaphragm and Bracket Assembly
98	—	—	—	7006461	7006461	Lead Wire
99	—	—	—	7009768	7009768	Clip

## THROTTLE RETURN CHECK PARTS

100	—	—	7006214	—	—	Throttle Return Check Assembly
101	—	—	7006308	—	—	Contact Screw

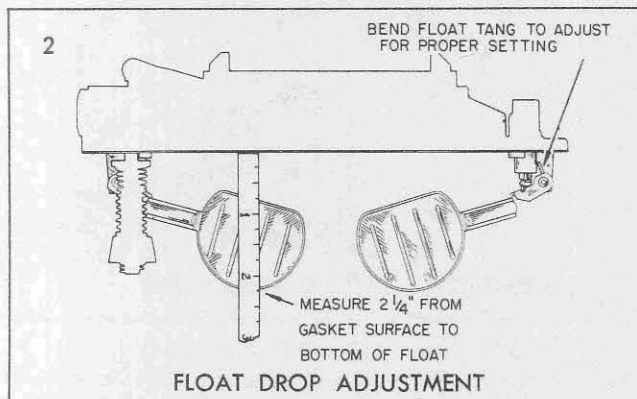


**1952, 1953, 1954 CADILLAC**  
**ADJUSTMENTS AND SPECIFICATIONS**



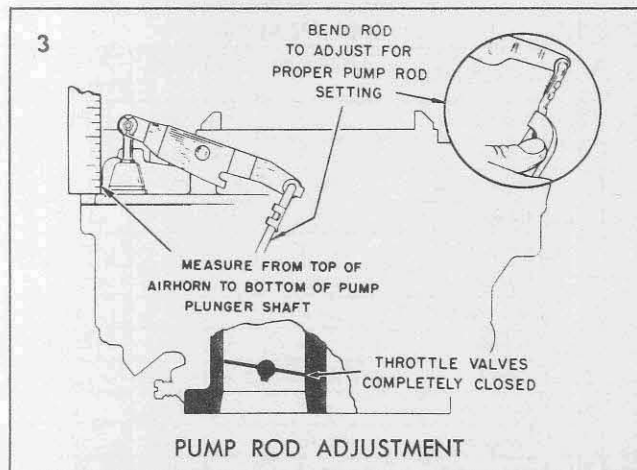
1952 SETTING 1-3/4" GAUGE BT-85  
1953 SETTING 1-9/16" GAUGE BT-87  
1954 SETTING 1-19/32" GAUGE BT-101

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.



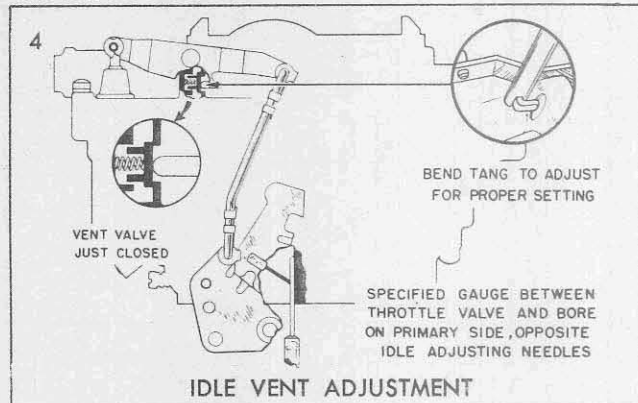
SETTING 2-1/4" USE TOOL BT-93 OR SCALE

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



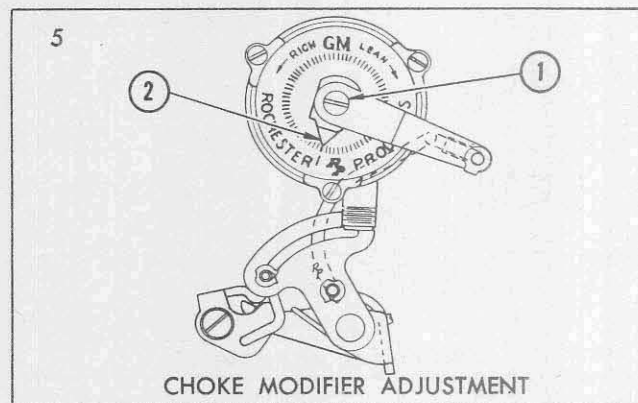
1952, 1953, 1954 SETTING 15/16" TOOL BT-18

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.



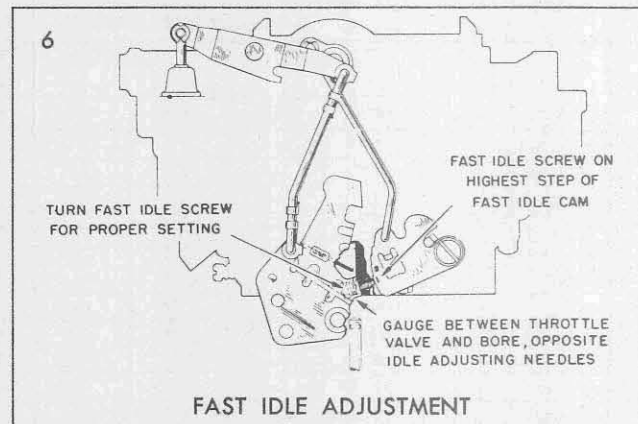
SETTING .063" GAUGE BT-79

With the primary throttle valves closed against a .063" 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.



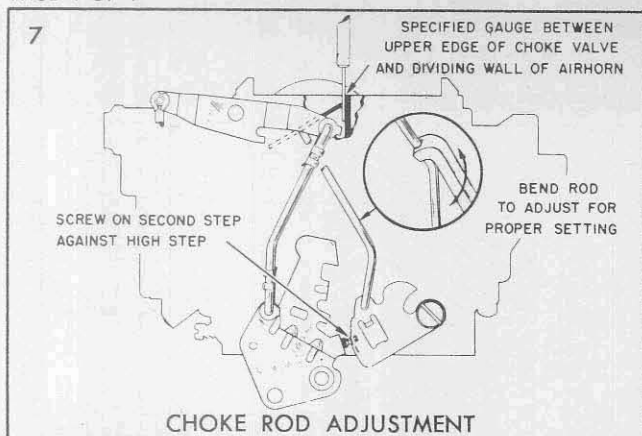
1952, 1953 SETTING 1. NOTCH RICH  
1954 SETTING - INDEX

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.



1952, 1953, 1954 SETTING .028" GAUGE BT-79

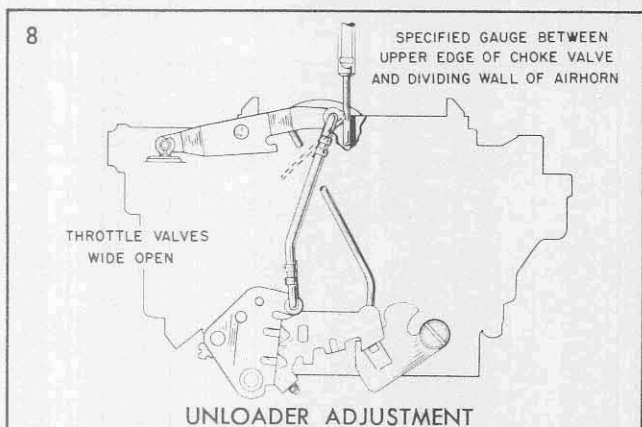
Turn the fast idle screw against the high step of the fast idle cam until the specified gauge just fits between the throttle valve and bore, opposite the idle adjusting needles. This is a bench setting only, to provide an initial fast idle when the car is first started; when the engine reaches operating temperature, adjust the proper fast idle rpm with a tachometer. Fast idle set 1700 R.P.M. on high step of cam, transmission in neutral.



1952, 1953 SETTING .031" GAUGE BT-78

1954 SETTING .040" GAUGE BT-102

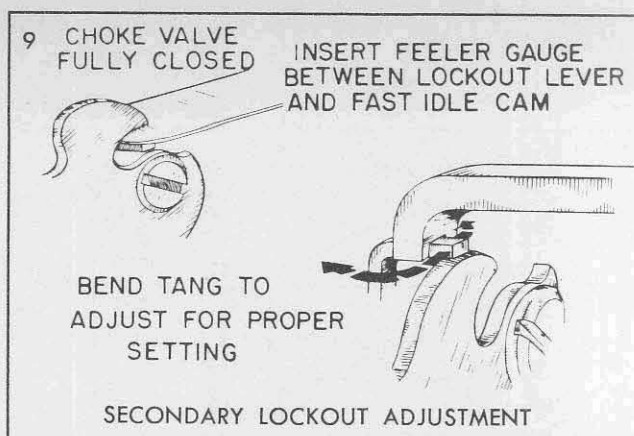
With the fast idle screw resting on the 2nd step and against the high step of the fast idle cam, bend the choke rod as shown to obtain proper clearance between the choke valve edge and the dividing air horn wall. Use Tool BT-18.



1952, 1953 SETTING .067" GAUGE BT-78

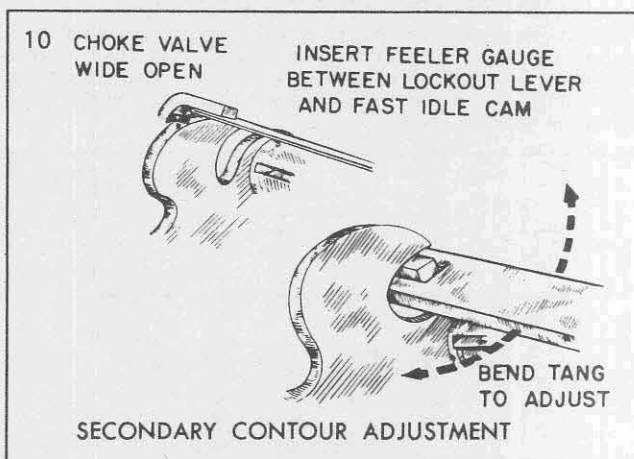
1954 SETTING .125 GAUGE BT-102

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 .015" 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 .015" between the lever and cam.

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

## CARBURETOR SPECIFICATIONS

	7004500		7005100		7006220 STD. 7006221 A.C.	
	PRIM.	SEC.	PRIM.	SEC.	PRIM.	SEC.
Large Venturi	1"	1-1/16"	1"	1-1/16"	1"	1-1/16"
Small Venturi	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Metering Jets	52	64	49	60	48	64
Idle Needle Orifice	.040"	—	.046"	—	.046"	—
Second Hole	.031"	.028"	.033"	.028	.033"	—
Third Hole	—	—	.026"	—	.026"	—
Spark	.040"	—	.070"	—	.070"	—
Power Rest.	.025"	—	.038"	—	.038"	—
Choke Rest.	.096"	—	.096"	—	.096"	—
Pump Jets	.0225"	—	.024"	—	.024"	—
Choke Setting	1 Notch Rich		1 Notch Rich		Index	

## TUNE-UP SPECIFICATIONS

	7004500	7005100	7006220 STD. 7006221 A.C.
Spark Plug Gap	.033-.038"	.033-.038"	.035"
Breaker Point Gap	.013-.018"	.013-.018"	.015"
Cam Dwell	—	—	26°-33°
Ignition Timing	5° BTDC	2 1/2° BTDC	2 1/2° BTDC
Idle R.P.M.	380 (Dr.)	380 (Dr.)	400 (Dr.)

## QUICK REFERENCE SPECIFICATIONS

ADJUSTMENT	7004500	7005100	7006220 STD. 7006221 A.C.
Float Level	1-3/4"	1-9/16"	1-19/32"
Gauge	BT-85	BT-87	BT-101
Float Drop	2-1/4"	2-1/4"	2-1/4"
Gauge	BT-93	BT-93	BT-93
Pump Rod	15/16"	15/16"	15/16"
Gauge	Scale	Scale	Scale
Idle Vent	.063	.063	.063"
Gauge	BT-79	BT-79	BT-79
Choke	1 Notch Rich	1 Notch Rich	Index
Fast Idle	.028"	.028"	.028
Gauge	BT-79	BT-79	BT-79
Choke Rod	.031"	.031"	.040"
Gauge	BT-78	BT-78	BT-102
Unloader	.067"	.067"	.125
Gauge	BT-78	BT-78	BT-102
Lockout	.015"	.015	.015"
Contour	.015"	.015	.015"



# Rochester Carburetors

## MODEL 4GC

### 1955-1956 CADILLAC

BULLETIN 9C-205

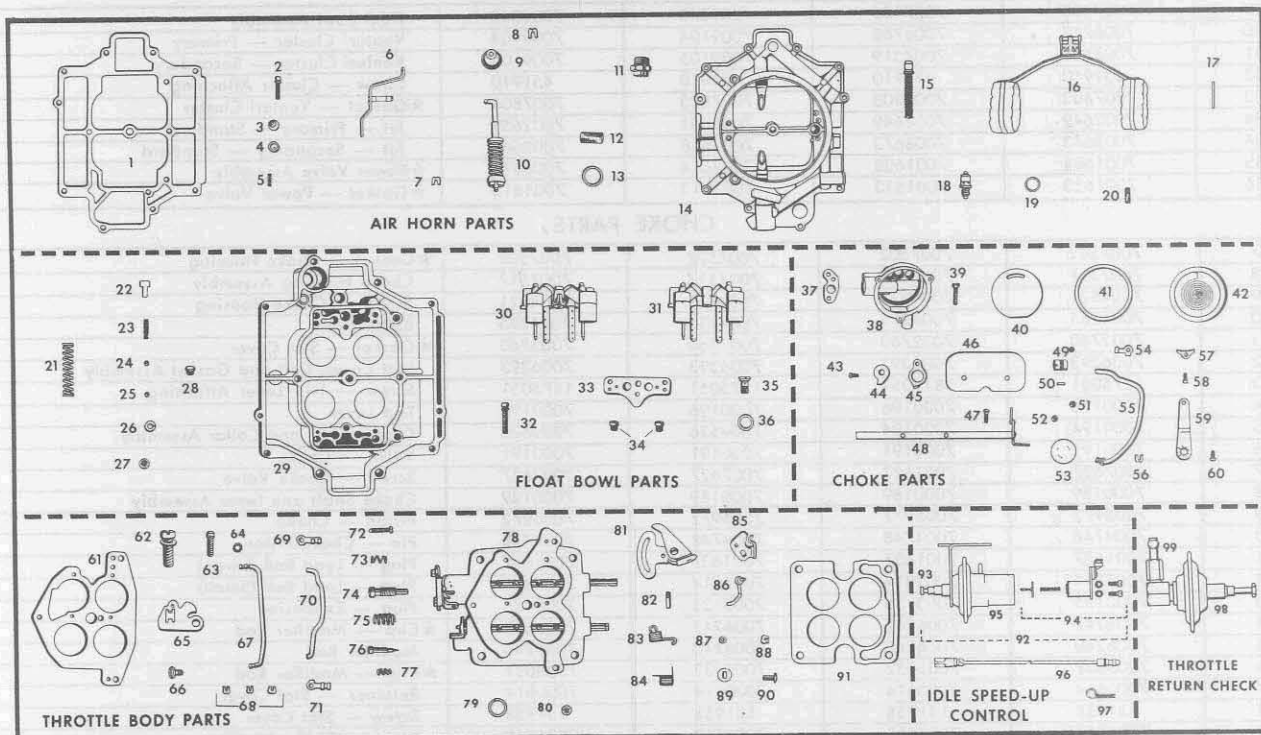
PAGE 1 OF 5

DATE: 2-15-57

REPLACES:

9C-205, 9/1/55

9C-207, 11/1/55



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

	1955		1956		YEAR
	EARLY	LATE	EARLY	LATE	APPLICATION
	7007970	7009070	7008750	7009750	STANDARD CARBURETOR No.
	7007971	7009071	7008751	7009751	AIR CONDITIONED CARB. No.
	Same Part No. as original above		7009901	7009914	REPLACEMENT PACKAGE
	7009304	7009304	7009921	7009921	REPAIR KIT WITH GASKETS
	7008747	7008747	7009941	7009941	GASKET KIT WITH FLANGE GASKET
	7008775	7008775	None	None	REPAIR KIT W/O GASKETS
	7007134	7007134	None	None	GASKET KIT W/O FLANGE GASKET

Illus. No.	AIR HORN PARTS				
1	7006061	7006061	7006061	7006061	★ Air Horn Gasket
2	7000249	7000249	7000249	7000249	Air Horn Screw
3	7004527	7004527	7004527	7004527	Valve — Idle Vent
4	7004528	7004528	7004528	7004528	Guide — Idle Vent Valve
5	7004529	7004529	7004529	7004529	Spring — Idle Vent Valve
6	7007617	7007617	7007617	7007617	Pump Shaft and Lever Assembly
7	7007616	7007616	7007616	7007616	★ Clip — Pump Shaft
8	7005032	7005032	7005032	7005032	★ Clip — Pump Plunger
9	7006372	7006372	7006372	7006372	★ Boot — Pump Plunger
10	7000208	7000208	7009129	7009129	★ Pump Assembly
11	7000262	7000262	7000262	7000262	Strainer Nut
12	7003083	7003083	7003083	7003083	★ Strainer — Fuel Inlet
13	7001597	7001597	7001597	7001597	★ Gasket — Strainer Nut
14	7006373	7006373	7009339	7009339	Air Horn Assembly
15	7000204	7000204	7008612	7008612	Power Piston Assembly
16	7000199	7000199	7000199	7000199	Float Assembly
17	7001595	7001595	7001595	7001595	Pin — Float Hinge
18	7006376	7006376	7006376	7006376	★ Needle and Seat Assembly
19	7001613	7001613	7001613	7001613	★ Gasket — Needle Seat
20	7006079	7006079	7006079	7006079	★ Strainer — Needle Seat

FLOAT BOWL PARTS					
21	7004597	7004597	7004597	7004597	★ Spring — Pump Return
22	7003838	7003838	7003838	7003838	★ Guide — Pump Discharge Spring
23	7002118	7002118	7002118	7002118	★ Spring — Pump Discharge Ball
24	7002117	7002117	7002117	7002117	★ Ball — Pump Discharge
25	7002120	7002120			★ Pump Inlet Check Ball
26	7001605	7001605			★ Pump Inlet Screen Retainer
27	7001604	7001604			★ Pump Inlet Screen
28	7005286	7005286	7005286	7005286	Sight Plug

★ REPAIR KIT CONTENTS



Illus. No.	1955		1956		APPLICATION
	7007970	7009070	7008750	7009750	STANDARD CARBURETOR No.
	7007971	7009071	7008751	7009751	AIR CONDITIONED CARB. No.
FLOAT BOWL PARTS (Continued)					
29	7007130	7007130	7009340	7009340	Float Bowl Assembly
30	7008768	7008768	7009104	7009104	Venturi Cluster — Primary
31	7007519	7007519	7009105	7009105	Venturi Cluster — Secondary
32	451910	451910	451910	451910	Screw — Cluster Attaching
33	7007803	7007803	7007803	7007803	★Gasket — Venturi Cluster
34	7002649	7002649	7002651	7002651	Jet — Primary — Standard
34	7008673	7008673	7008668	7008668	Jet — Secondary — Standard
35	7001608	7001608	7008614	7008614	★Power Valve Assembly
36	7001613	7001613	7001613	7001613	★Gasket — Power Valve
CHOKE PARTS					
37	7007502	7007502	7007502	7007502	★Gasket — Choke Housing
38	7007517	7007517	7007517	7007517	Choke Housing Assembly
39	7004821	7004821	7004821	7004821	Screw — Choke Housing
40	7004285	7004285	7004285	7004285	Baffle Plate
41	7002760	7002760	7002760	7002760	★Gasket — Stat Cover
42	7006393	7006393	7006393	7006393	Stat Cover, Coil and Gasket Assembly
43	1875051	1875051	1875051	1875051	Screw — Trip Lever Attaching
44	7000196	7000196	7000196	7000196	Trip Lever
45	7000194	7000194	7009626	7009626	Choke Lever and Collar Assembly
46	7000191	7000191	7000191	7000191	Valve — Choke
47	7007627	7007627	7007627	7007627	Screw — Choke Valve
48	7000189	7000189	7000189	7000189	Choke Shaft and Lever Assembly
49	7005972	7005972	7005972	7005972	Piston — Choke
50	7004748	7004748	7004748	7004748	Pin — Choke Piston
51	7001637	7001637	7001637	7001637	Plug — Lead Ball (Large)
52	7002814	7002814	7002814	7002814	Plug — Lead Ball (Small)
53	7003135	7003135	7003135	7003135	Plug — Expansion
54	7006242	7006242	7006242	7006242	★Clip — Modifier Rod
55	7006240	7006240	7006240	7006240	Modifier Rod
56	7005032	7005032	7005032	7005032	★Clip — Modifier Rod
57	7000614	7000614	7000614	7000614	Retainer — Stat Cover
58	131958	131958	131958	131958	Screw — Stat Cover
59	7004568	7004568	7004568	7004568	Lever — Choke Modifier
60	451901	451901	451901	451901	Screw — Modifier Lever
THROTTLE BODY PARTS					
61	7006887	7006887	7008957	7008957	★Gasket — Throttle Body
62	7004324	7004324	7004324	7004324	Screw — Throttle Body (Large)
63	7005188	7005188	7005188	7005188	Screw — Throttle Body (Small)
64	121744	121744	121744	121744	Lockwasher — Throttle Body Screw
65	7006897	7006897	7009059	7009059	Fast Idle Cam
66	7003561	7003561	7003561	7003561	Screw — Cam Attaching
67	7006239	7006239	7006239	7006239	Choke Rod
68	7005032	7005032	7005109	7005109	★Clip — Choke Rod
69	7003242	7003242	7003242	7003242	★Clip — Pump Rod — Upper
70	7006794	7006794	7006794	7006794	Pump Rod
71	7003137	7003137	7003137	7003137	★Clip — Pump Rod — Lower
72	7003185	7003185	7003185	7003185	Fast Idle Screw
73	7001690	7001690	7001690	7001690	Spring — Fast Idle Screw
74	7006795	7006795	7006795	7006795	Idle Air Adjustment Screw
75	7006796	7006796	7006796	7006796	Spring — Idle Air Screw
76	7004402	7004402	7004402	7004402	★Idle Needle
77	7003190	7003190	7003190	7003190	Spring — Idle Needle
78	7007764	7008486	7009341	7009779	Throttle Body Assembly
79	7001605	7001605			Bypass Silencer Screen Retainer
80	7006888	7006888			Bypass Silencer Screen
81	7006237	7006237	7006237	7006237	Secondary Throttle Actuating Lever
82	7004399	7004399	7004399	7004399	Screw-Shaft Override Spring
83	7004398	7004398	7004398	7004398	Spring — Shaft Override
84	7005145	7005145	7005145	7005145	Spring — Secondary Throttle Return
85	7006793	7006793	7006793	7006793	Secondary Lever
86	7004401	7004401	7004401	7004401	Secondary Lever Link
87	7002287	7002287	7002287	7002287	Washer — Secondary Lever Link
88	7005109	7005109	7005109	7005109	★Clip — Secondary Lever Link
89	1875066	1875066	1875066	1875066	Washer — Secondary Lever
90	445647	445647	445647	445647	Screw — Secondary Lever Attaching
91	1463428	1463428	1464203	1464203	★Gasket Flange
IDLE SPEED UP CONTROL PARTS (AIR CONDITIONED ONLY)					
92	7006222	7006222	7006222	7006222	Idle Speed-up Control
93	7006254	7006254	7006254	7006254	Contact Screw
94	7010964	7010964	7010964	7010964	Solenoid Kit
95	7006275	7006275	7006275	7006275	Diaphragm and Bracket Assembly
96	7006461	7006461	7006461	7006461	Lead Wire
97	7009768	7009768	7009768	7009768	Clip
THROTTLE RETURN CHECK PARTS					
98			7009892	7009892	Throttle Return Check and Valve Assembly
99			7008621	7009870	Check Valve



# Rochester Carburetors

## MODEL 4GC

### 1955-56 CADILLAC

### ADJUSTMENTS AND SPECIFICATIONS

BULLETIN 9C-205

PAGE 5 OF 5

DATE 2-15-57

#### QUICK-REFERENCE SPECIFICATIONS

CARBURETOR SPECIFICATIONS		1955		1956	
		PRIMARY	SECONDARY	PRIMARY	SECONDARY
Small Venturi		1/4"	1/4"	1/4"	1/4"
Large Venturi		1"	1-3/16"	1-1/16"	1-3/16"
Main Metering Jets		.049	.073	.051	.068
Idle Needle Holes		.040	—	.046	—
Sec. Discharge Holes	Lower	.038	—	.040	—
	Middle	—	—	—	—
	Upper	.027	—	.031	—
Spark Drillings		.070 (4)	—	.070 (4)	—
Pump Discharge Holes		.026	—	.026	—
Power Restrictions		.038	—	.031	—
Choke Restrictions—Channel		.096	—	.096	—
Choke Restrictions—By-Pass		—	—	—	—
Idle Tube Restrictions		.031	.026	.031	.031
Lower Idle Bleed		.031	.040	.034	.040
ADJUSTMENTS		1955		1956	
		DIMENSION		DIMENSION	
Float Level		1-19/32"		1-19/32"	
Float Drop		2 1/4"		2 1/4"	
Pump Rod		63/64"		1-1/16"	
Idle Vent		.063		.063	
Choke Modifier		Index		Index	
Fast Idle		.020—1700 R.P.M.		.020—1700 R.P.M.	
Choke Rod		.040		.040	
Unloader		.125		.125	
Secondary Lockout		.015		.015	
Secondary Contour		.015		.015	
TUNE-UP		1955		1956	
Spark Plug Gap		.035		.035	
Breaker Point Gap		.016		.016	
Cam Dwell		26°—33°		26°—33°	
Ignition Timing		2 1/2° B.T.D.C.		5° B.T.D.C.	
Idle R.P.M.		400 In Dr.		400 In Dr.	
Fast Idle R.P.M.		1700		1700	

**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





# Rochester Carburetors

## MODEL 4GC

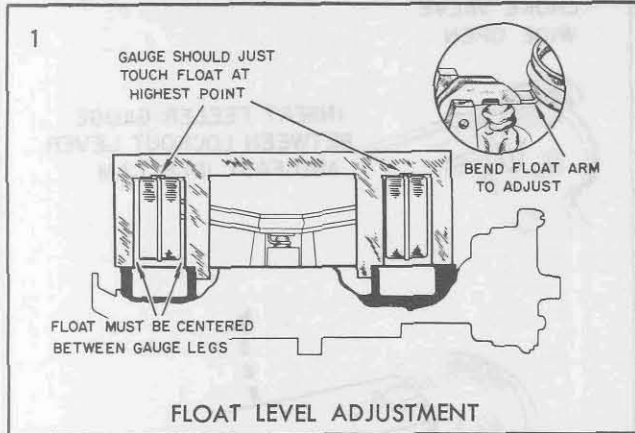
### 1955-56 CADILLAC

#### ADJUSTMENTS AND SPECIFICATIONS

BULLETIN 9C-205

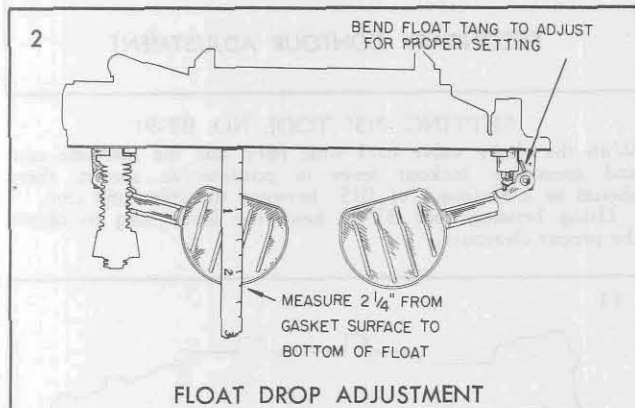
PAGE 3 OF 5

DATE 2-15-57



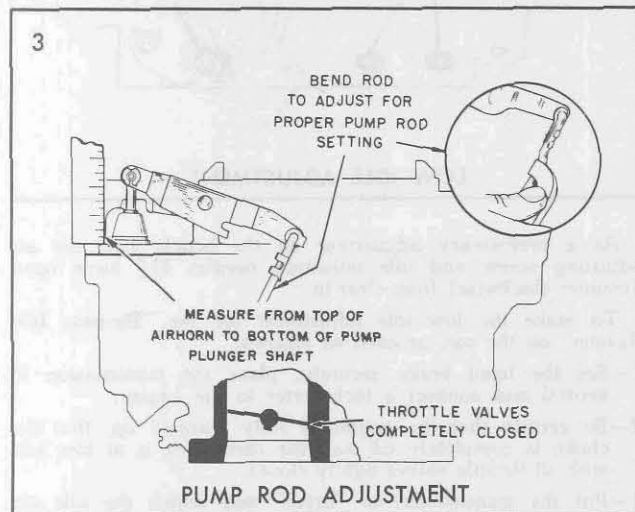
#### SETTING 1-19/32" GAUGE BT-101

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.

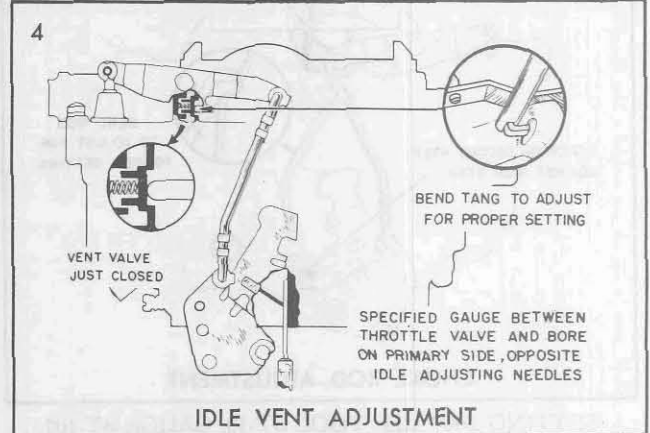


#### SETTING 2-1/4" USE GAUGE BT-93 OR SCALE

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

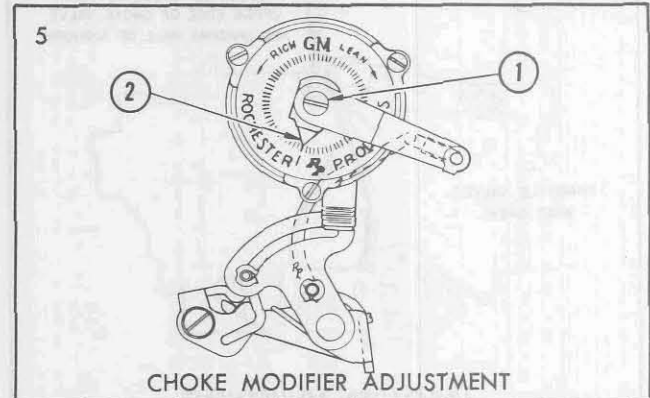


SETTING 1955-63/64", 1956-1-1/16" USE TOOL BT-18  
With the fast idle and idle stop screws backed off and the throttle valves completely closed, bend the pump rod as shown to obtain the proper measurement from the top of the air horn casting to the bottom of the pump plunger shaft.



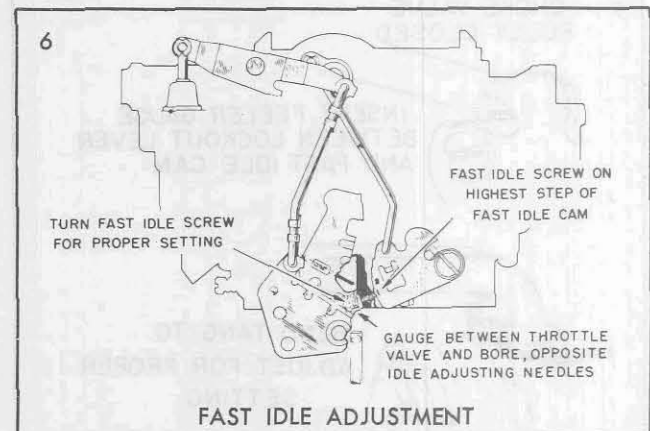
#### SETTING .063" GAUGE BT-79

With the primary throttle valves closed against a .063" 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.



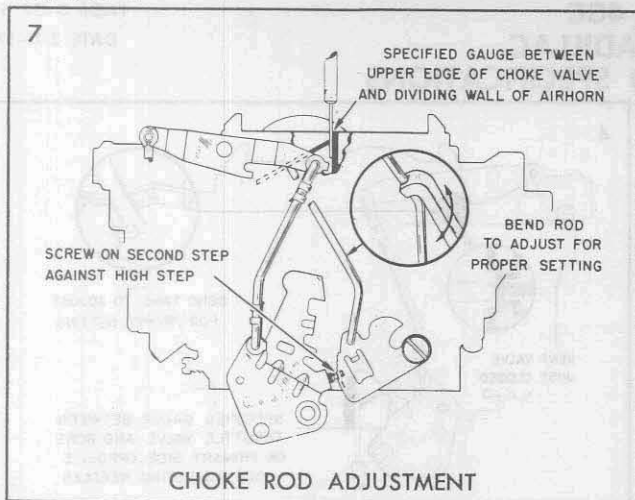
#### SETTING — INDEX

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 at the major index mark on the choke cover. Tighten the lock screw securely.

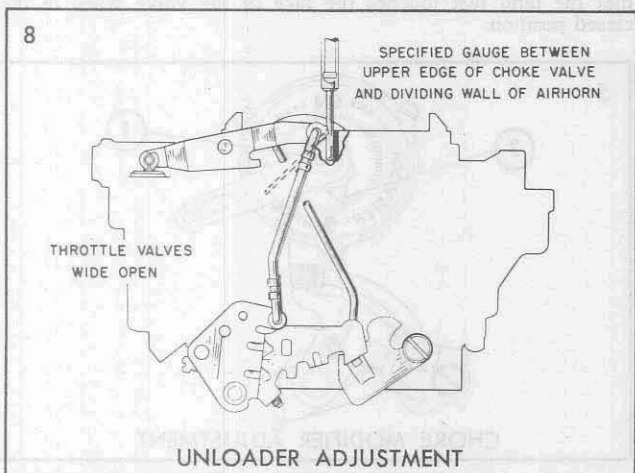


#### SETTING .020" GAUGE BT-67

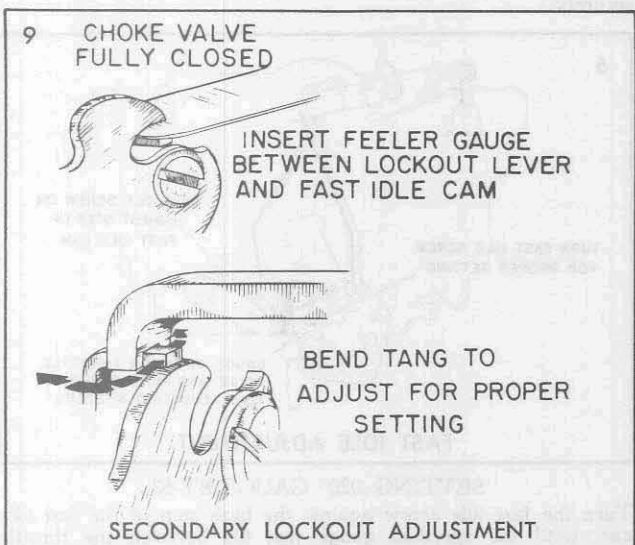
Turn the fast idle screw against the high step of the fast idle cam until the specified gauge just fits between the throttle valve and bore, opposite the idle adjusting needles. This is a bench setting only, to provide an initial fast idle when the car is first started; when the engine reaches operating temperature, adjust the proper fast idle rpm with a tachometer. Fast idle set 1700 R.P.M. on high step of cam.



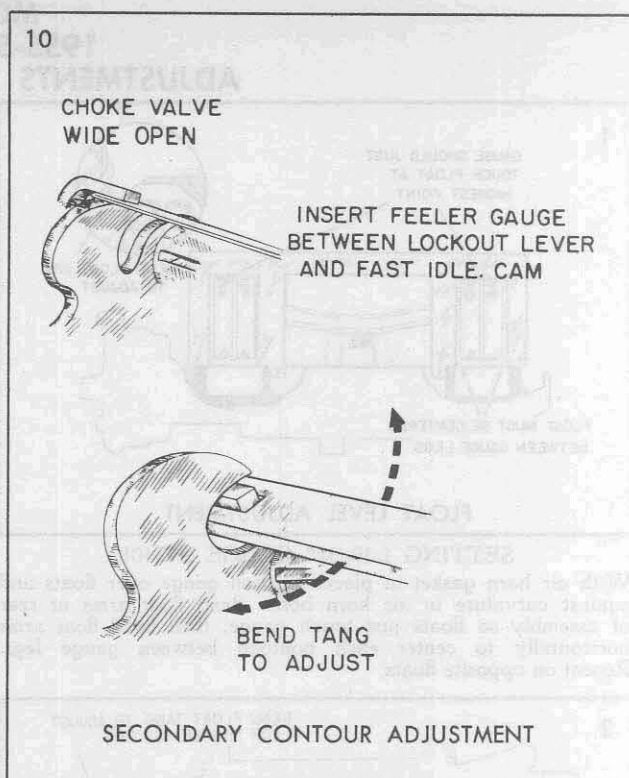
SETTING .040" USE TOOL BT-18, GAUGE BT-102  
With the fast idle screw resting on the 2nd step and against the high step of the fast idle cam, bend the choke rod as shown to obtain a clearance of .040" between the choke valve edge and the dividing air horn wall.



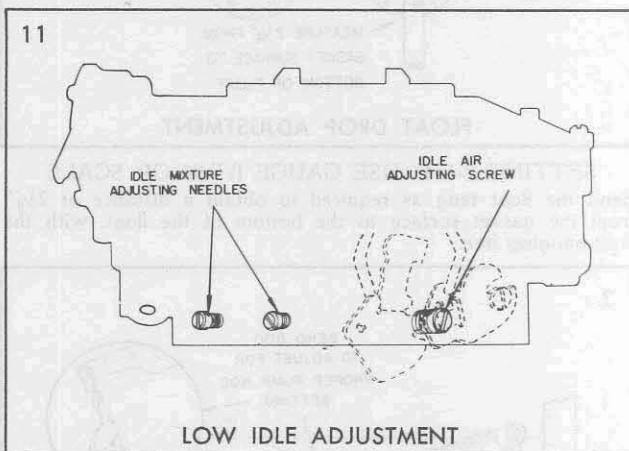
SETTING .125 USE TOOL BT-69, GAUGE BT-102  
Bend the unloader tang on the fast idle cam to obtain a clearance of .125" between the choke valve edge and the dividing air horn wall with the throttle valves wide open.



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 .015" 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 .015" between the lever and cam.  
Using bending tool BT-91 bend the lever tang to obtain the proper clearance.



As a preliminary adjustment on the bench, turn the air adjusting screw and idle adjusting needles  $1\frac{1}{2}$  turns open (counter-clockwise) from clear in.

To make the low idle adjustment for the "By-pass Idle System" on the car, proceed as follows:

- 1—Set the hand brake securely, place the transmission in neutral and connect a tachometer to the engine.
- 2—Be certain that the engine is fully warmed up, that the choke is completely off and the carburetor is at low idle with all throttle valves tightly closed.
- 3—Put the transmission in "drive" and adjust the idle air adjustment screw to obtain a tachometer reading of 400 R.P.M.
- 4—Turn each idle adjusting needle to obtain the highest possible tachometer reading.
- 5—Reset idle R.P.M. at 400 R.P.M. as in step 3.
- 6—Recheck step 5 to insure the smoothest idle.

# Rochester Carburetors

DUAL CARBURETOR INSTALLATION

BULLETIN 9 C - 206

Date 3-15-55

FIRST ISSUE

1955 CADILLAC

Front

- 7007240

Rear - Air Cond. only

- 7007241

"EL DORADO" ENGINE

Rear - Std. only

- 7007942

Model 4GC AUTOMATIC CHOKE CARBURETOR

AIR HORN ASSEMBLY

FLOAT BOWL ASSEMBLY

THROTTLE BODY ASSEMBLY

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

## ★ REPAIR KIT 7008475

## GASKET KIT - 7007134

Illus. No.	Part No.	AIR HORN PARTS	Illus. No.	Part No.	FLOAT BOWL PARTS (Con't.)
1	7006061	Air Horn Gasket	48	7003838	★ Pump Discharge Spring Guide
2	7000249	Air Horn Attaching Screw	49	7001608	★ Power Valve Assy
3	7004527	Idle Vent Valve	50	7001613	Power Valve Gasket
4	7004528	Idle Vent Valve Guide	51	7005286	Sight Plug
5	7004529	Idle Vent Valve Spring	52	7008214	Float Bowl Assy.
6	7000197	Pump Shaft and Lever Assy.	53	7000199	Float Assy.
7	7006372	★ Pump Plunger Boot	54	7001595	Float Hinge Pin
8	7004291	Pump Lever—Inside	55	7006376	★ Fuel Valve, Seat and Gasket Assy.
9	120217	Pump Shaft Lockwasher	56	7006079	Needle Seat Strainer
10	120614	Pump Shaft Nut	57	7008770	Primary Venturi Cluster
11	7007522	Power Piston Assy.	58	7007519	Secondary Venturi Cluster
12	7002862	Strainer Nut	59	451910	Venturi Cluster Screw
13	7001597	Strainer Nut Gasket	60	7004310	Venturi Cluster Gasket
14	7003083	★ Fuel Inlet Strainer	61	7002649	Primary Metering Jet, Standard
15	7006373	Air Horn Assy.	62	7002648	Primary Metering Jet, Lean
16	7004279	Choke Housing Gasket		7008664	Secondary Metering Jet
17	7008183	Choke Housing	THROTTLE BODY PARTS		
18	7004821	Choke Housing Screw	63	7006887	Throttle Body Gasket
19	7006643	Baffle Plate	64	7004324	Throttle Body Screw—Large
20	7002760	Stat Cover Gasket	65	7003139	Throttle Body Screw—Small
21	7008198	Stat Cover, Coil & Gasket Assy.	66	7003185	Fast Idle Screw (7007240 Only)
22	1875051	Trip Lever Screw	67	7001690	Fast Idle Screw Spring (7007240 Only)
23	7000196	Trip Lever	68	7006897	Fast Idle Cam
24	7000194	Choke Lever and Collar Assy.	69	7003561	Cam Attaching Screw
25	7000191	Choke Valve	70	7006239	Choke Rod
26	7002305	Choke Valve Screw	71	7005032	★ Choke Rod Retainers
27	7008185	Choke Shaft and Lever Assy.	72	7003242	★ Pump Rod Clip—Upper
28	7008186	Choke Piston	73	7006794	Pump Rod
29	7004748	Choke Piston Pin	74	7003137	★ Pump Rod Clip—Lower
30	7001637	Lead Ball Plug—Large	75	7006888	Bypass Silencer Screen
31	7002814	Lead Ball Plug—Small	76	7001605	Bypass Silencer Screen Retainer
32	7003135	Expansion Plug	77	7008086	Throttle Body Assy. (7007240 & 7007942)
33	7006242	★ Modifier Rod Clip	78	7008087	Idle Air Adjusting Screw
34	7006240	Modifier Rod	79	7006795	Idle Air Screw Spring
35	7005032	Modifier Rod Retainer	80	7004402	Idle Mixture Adjusting Needle
36	7000614	Stat Cover Retainer	81	7003190	Idle Needle Spring
37	131958	Stat Cover Screw	82	7006237	Secondary Throttle Actuating Lever
38	7004568	Choke Modifier Lever	83	7004399	Shaft Override Spring Screw
39	451901	Modifier Lever Screw	84	7008196	Shaft Override Spring
FLOAT BOWL PARTS			85	7005145	Secondary Throttle Return Spring
40	7007807	★ Pump Plunger Assy.	86	7006793	Secondary Throttle Lever
41	7004597	Pump Return Spring	87	7004401	Secondary Lever Link
42	7005032	★ Pump Plunger Retainer	88	7002287	Secondary Lever Link Washer
43	7001604	★ Pump Inlet Screen	89	7005109	★ Secondary Lever Link Retainer
44	7001605	★ Pump Inlet Screen Retainer	90	1875066	Secondary Lever Washer
45	7002120	★ Pump Inlet Check Ball	91	445647	Secondary Lever Screw
46	7002117	★ Pump Discharge Check Ball	92	7006254	Contact Screw (7007241 only)
47	7002118	★ Pump Discharge Spring	93	7006222	Idle Speed-Up Control (7007241 only)

★ Parts contained in Repair Kit



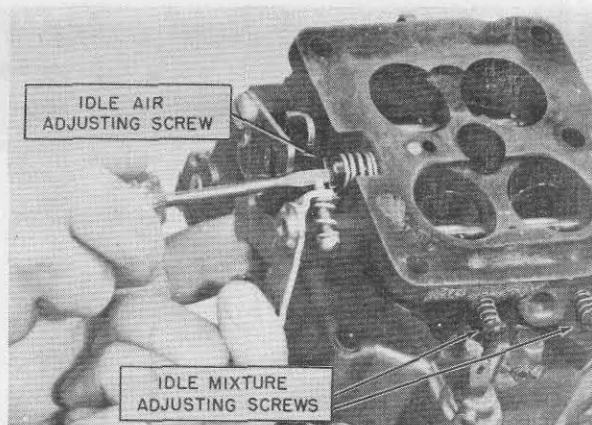
## 1955 CADILLAC "EL DORADO" ENGINE CARBURETOR ADJUSTMENTS

Adjustment procedures are the same as listed in Bulletin 9-C-205 for Rochester Carburetors 7007970 and 7007971, with the following exceptions:

1. *Pump Rod Adjustment*—Measure 1 1/16" from the top of the air horn to the bottom of the pump plunger shaft.
2. *Fast Idle Adjustment*—Applies only to front carburetor.

### IDLE SPEED AND MIXTURE ADJUSTMENT

1. Remove carburetor air cleaner, disconnect throttle return spring and the manual control rod from end of the connector link, and loosen the throttle connector link jam nut.
2. Hold or wedge both choke valves fully open and, with the throttle valves on both carburetors tightly closed, adjust the connector link so that the front end of the link fits freely in its hole in the front carburetor throttle lever. Tighten jam nut.
3. Place manual control rod over end of connector link and connect throttle return spring.
4. Back each idle mixture screw two turns off its seat and back each idle by-pass air screw three turns off its seat.
5. Install carburetor air cleaner, connect tachometer, set hand brake securely, start engine, and place selector lever in "Dr."



6. When operating temperature is reached, turn the idle by-pass air screws on each carburetor equal amounts to obtain an engine speed of 475-485 RPM.
7. Turn right hand idle mixture screw on rear carburetor to its lean limit, then enrich 3/8 turn. Repeat this adjustment on both front carburetor mixture screws next, and then the left mixture screw on the rear carburetor.
8. Adjust each idle by-pass air screw equal amounts to reduce speed to 460 RPM.
9. Readjust mixture screws equal amounts, in the sequence followed in Step 7 above, to obtain the highest engine RPM possible. If 475 to 485 RPM is obtained, no further adjustment is necessary. If specified RPM is not reached, repeat Steps 8 and 9 above, until 475 to 485 RPM is attained and idle is smooth.
10. Adjust fast idle speed to 2000 RPM with screws on highest step of cam. Shut off engine and remove tachometer.

### QUICK - REFERENCE SPECIFICATIONS

DIMENSIONS			TUNE-UP	
	PRIMARY SIDE	SECONDARY SIDE	SPARK PLUG GAP — .035"	
SMALL VENTURI	1/4"	1/4"	BREAKER POINT GAP — .016"	
LARGE VENTURI	1"	1 3/16"	CAM DWELL — 26°-33°	
MAIN METERING JETS	.049"	.064"	IGNITION TIMING — 2 1/2° BTDC	
IDLE NEEDLE HOLE	.040"		IDLING RPM — 475-485 RPM	
SECOND IDLE HOLE	.038"		FAST IDLE RPM — 2000	
THIRD IDLE HOLE	.027"			
SPARK DRILLING (4)	.070"			
PUMP DISCHARGE HOLES	.028"			
POWER RESTRICTION	.025"			
CHOKE RESTRICTION	.086"			
ADJUSTMENTS	SETTING		TOOL NO.	
FLOAT LEVEL	1 19/32"		BT-101	
FLOAT DROP	2 1/4"		Scale	
PUMP ROD	1 1/16"		Scale	
CHOKE ROD	.040"		BT-102	
UNLOADER	.125"		BT-102	
IDLE VENT	.020"		BT-67	
FAST IDLE	.063"		BT-79	
SECONDARY CONTOUR CLEARANCE	.015"		Feeler Gauge	
SECONDARY LOCKOUT	.015"		Feeler Gauge	

CARBURETOR TOOLS AND GAUGES AS LISTED ARE AVAILABLE THROUGH UMS DISTRIBUTORS

**Rochester Carburetor**

A GENERAL MOTORS PRODUCT



A UNITED MOTORS-AC LINE



# Rochester Carburetors

## MODEL 4GC 1957 CADILLAC

BULLETIN 9C-208

PAGE 1 OF 5

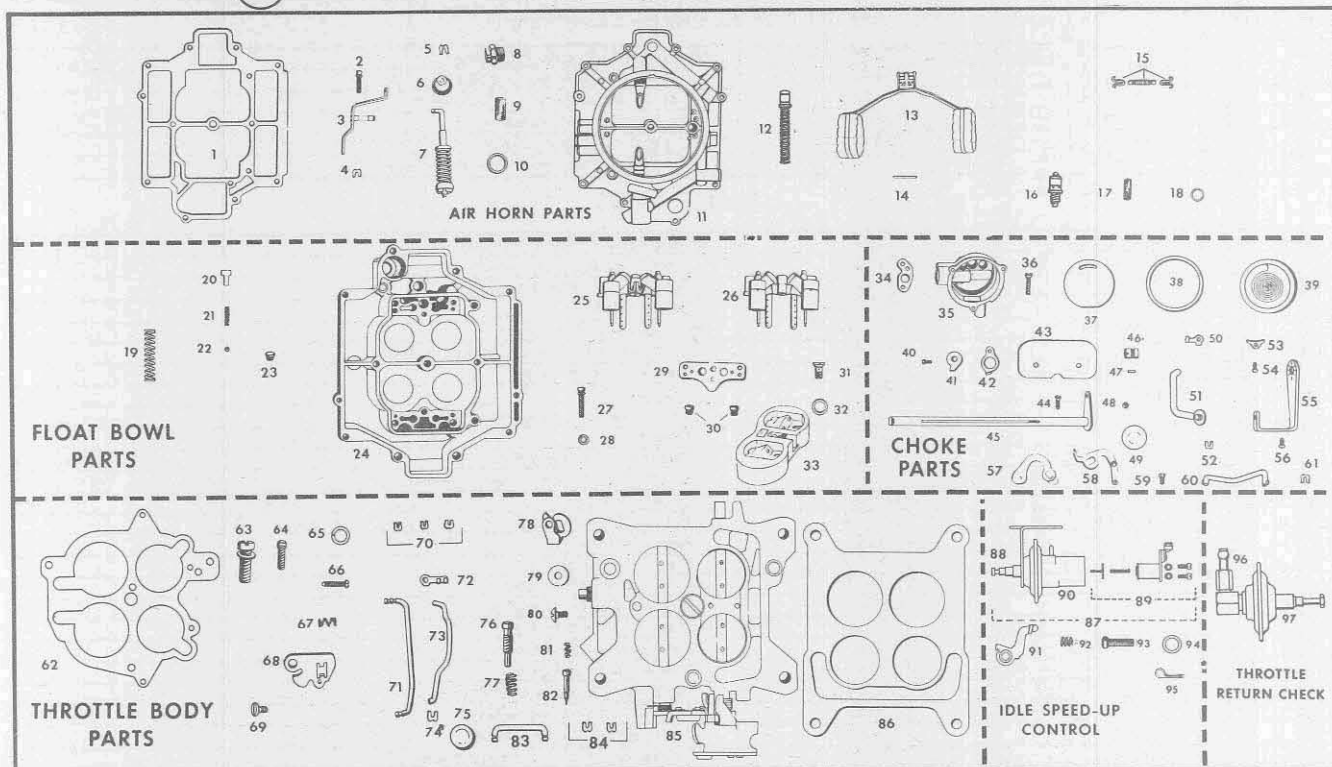
DATE: AUGUST, 1958

REPLACES:

9C-208, 10/15/56

9C-208A, 7/1/57

9C-208B, 12/1/57



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

	1957 (Early)	1957 (Late)	YEAR
	<b>7010100</b>	<b>7012000</b>	<b>STANDARD CARBURETOR No.</b>
	<b>7010101</b>	<b>7012001</b>	<b>AIR CONDITIONED CARBURETOR No.</b>
	<b>7015757</b>	<b>7015757</b>	<b>REPLACEMENT PACKAGE No.</b>
	7015831	7015831	REPAIR KIT
	7015851	7015851	GASKET KIT
	7015773	7015773	ALTITUDE KIT

Illus. No.	AIR HORN PARTS		
1	7006061	7006061	★Gasket — Air Horn
2	7000249	7000249	Screw — Air Horn
3	7007617	7007617	Pump Shaft and Lever Assembly
4	7007616	7007616	★Clip — Pump Shaft
5	7005032	7005032	★Clip — Pump Plunger
6	7006372	7006372	★Boot — Pump Plunger
7	7010211	7010211	★Pump Assembly
8	7000262	7000262	Strainer Nut
9	7003083	7003083	★Strainer — Fuel Inlet
10	7001597	7001597	★Gasket — Strainer Nut
11	7010779	7010779	Air Horn Assembly
12	7010332	7010332	Power Piston Assembly
13	7010064	7010064	Float Assembly
14	7001595	7001595	Pin — Float Hinge
15	7001850	7001850	★Float Balance Spring and Clips Assembly
16	7012144	7012144	★Needle and Seat Assembly
17	7006079	7006079	★Strainer — Needle Seat
18	7001613	7001613	★Gasket — Needle Seat

FLOAT BOWL PARTS			
19	7002101	7002101	★Spring — Pump Return
20	7003838	7003838	★Guide — Pump Discharge
21	7002118	7002118	★Spring — Pump Discharge
22	7002117	7002117	★Ball — Pump Discharge
23	7005286	7005286	Sight Plug
24	7010780	7010780	Float Bowl Assembly
25	7010334	7010334	Venturi Cluster — Primary
26	7010335	7010335	Venturi Cluster — Secondary
27	7010421	7010421	Screw — Venturi Cluster
28	121841	121841	Lockwasher — Cluster Screw

CO, WD, 131, 149, 9X, 9FR, 9FD

★ REPAIR KIT CONTENTS

	1957 (Early)	1957 (Late)	YEAR
	7010100	7012000	STANDARD CARBURETOR No.
	7010101	7012001	AIR CONDITIONED CARBURETOR No.

Illus. No.	FLOAT BOWL PARTS (Continued)		
29	7007803	7007803	★Gasket — Venturi Cluster
30	7002656	7002656	Jet — Primary — Standard
30	7008684	7008684	Jet — Secondary — Standard
31	7010918	7010918	★Power Valve Assembly
32	7001613	7001613	★Gasket — Power Valve
33	7010337	7010337	Auxiliary Throttle Valve Assembly

#### CHOKE PARTS

34	7007502	7007502	★Gasket — Choke Housing
35	7010336	7010336	Choke Housing Assembly
36	7004821	7004821	Screw — Choke Housing
37	7006643	7006643	Baffle Plate
38	7002760	7002760	★Gasket — Stat Cover
39	7012410	7012410	Stat Cover Coil and Gasket Assembly
40	1875051	1875051	Screw — Trip Lever
41	7000196	7000196	Trip Lever
42	7009626	7009626	Choke Lever and Collar Assembly
43	7000191	7000191	Choke Valve
44	7007627	7007627	Screw — Choke Valve
45	7007143	7007143	Choke Shaft and Lever Assembly
46	7010522	7010522	Choke Piston
47	7010746	7010746	Pin — Choke Piston
48	7002814	7002814	Plug — Lead Ball
49	7003135	7003135	Plug — Expansion
50	7003137	7003137	★Clip — Modifier Rod
51	7010824	7010824	Rod — Choke Modifier
52	7005032	7005032	★Clip — Modifier Rod
53	7000614	7000614	Retainer — Stat Cover
54	7010424	7010424	Screw — Stat Cover
55	7010823	7010823	Lever — Choke Modifier
56	7010434	7010434	Screw — Lever Attaching
57	7007503	7007503	Intermediate Choke Shaft
58	7009852	7009852	Choke Lever and Link Assembly
59	1875051	1875051	Screw — Choke Piston Lever
60	7010357	7010357	Rod — Intermediate Choke
61	7005109	7005109	★Clip — Intermediate Choke Rod

#### THROTTLE BODY PARTS

62	7011979	7011979	★Gasket — Throttle Body
63	7004324	7004324	Screw — Throttle Body — Large
64	7005188	7005188	Screw — Throttle Body — Small
65	121744	121744	Lockwasher — Small Screws
66	7003122	7003122	Fast Idle Screw
67	7003176	7003176	Spring — Fast Idle Screw
68	7009059	7009059	Cam — Fast Idle
69	7003561	7003561	Screw — Cam Attaching
70	7005109	7005109	★Clip — Choke Rod
71	7010359	7010359	Choke Rod
72	7003137	7003137	★Clip — Pump Rod — Upper
73	7010358	7010358	Pump Rod
74	7005032	7005032	★Clip — Pump Rod — Lower
75	7006475	7006475	Expansion Plug
76	7010355	7010355	Idle Air Adjusting Screw
77	7006796	7006796	Spring — Idle Air Screw
78	7010353	7010353	Lever — Choke Modifier Actuating
79	7010354	7010354	Washer — Choke Modifier
80	7010435	7010435	Screw — Choke Modifier
81	7011479	7011479	Spring — Idle Needle
82	7011079	7011079	★Idle Needle
83	7010352	7010352	Link — Secondary Lever
84	7005032	7005032	★Clip — Secondary Lever Link
85	7011918	7011918	Throttle Body Assembly
86	1465151	1465151	★Gasket — Flange

#### IDLE SPEED-UP CONTROL PARTS (Air Conditioned Only)

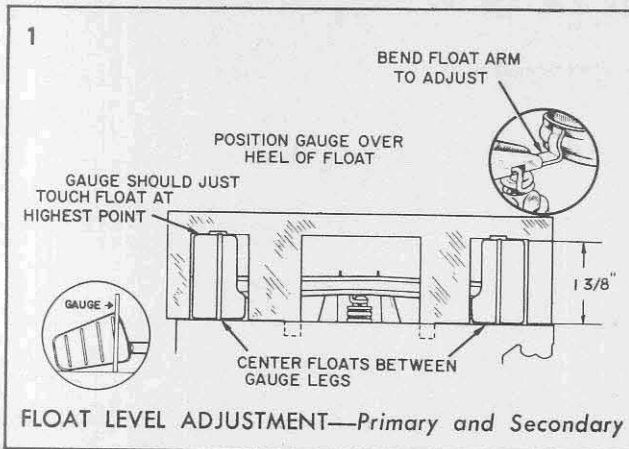
87	7010420	7012897	Idle Speed-up Control Assembly
88	7006254	7006254	Contact Screw
89	7011271	7011271	Solenoid Kit
90	7010558	7010558	Diaphragm and Bracket Assembly
91	7010554	7010554	Idle Speed-up Lever and Collar Assembly
92	7010557	7010557	Spring — Idle Speed-up Lever Return
93	7006119	7006119	Screw — Control Attaching
94	120217	120217	Lockwasher — Screw
95	7009768	7009768	Nylon Clip — Lead Wires
—	7011566	7011566	Air Conditioning Adaptor Kit

#### THROTTLE RETURN CHECK PARTS

96	7009870	7009870	Check Valve
97	7010950	7010950	Throttle Return Check Assembly



# Rochester Carburetors MODEL 4GC 1957 CADILLAC ADJUSTMENTS AND SPECIFICATIONS

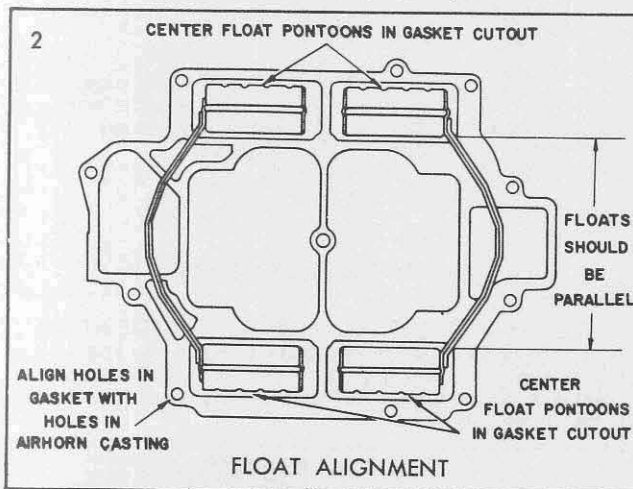


SETTING  $1\frac{3}{8}$ ", USE GAUGE BT-132

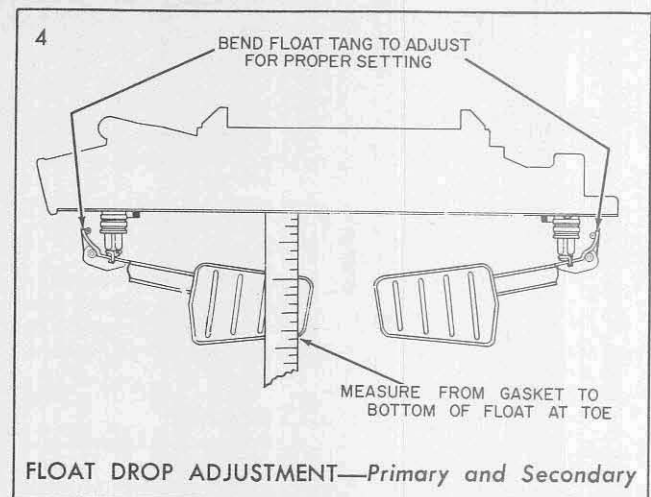
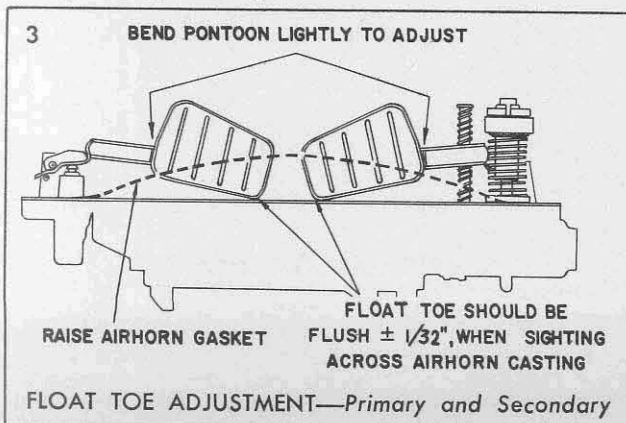
With the air horn inverted and gasket in place, position float gauge over the float heel (large end) as shown. Upper surface of pontoon should just touch gauge. Bend the float arm at rear at point shown to adjust.

With the float gauge still positioned over the heel of the floats as above and centered in the air horn, each float pontoon should be centered between gauge legs. Bend the float arms at points shown to align.

Move float assembly from side to side at hinge pin to make sure pontoons do not rub sides of gauge legs.



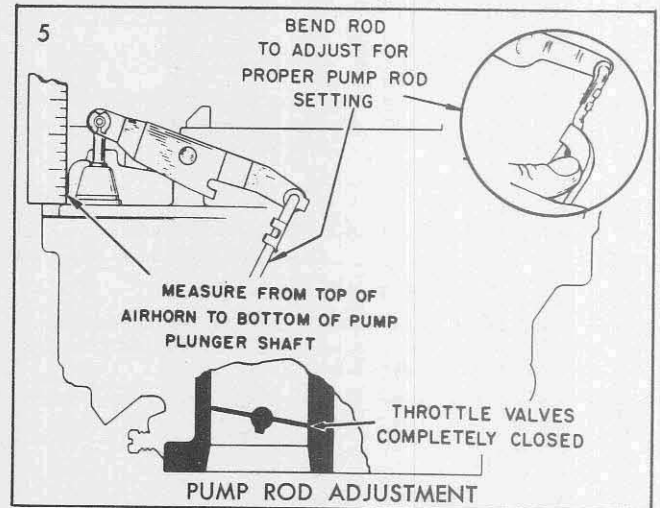
After centering floats, recheck alignment by aligning screw holes in air horn gasket with screw holes in air horn. Then make sure float pontoons are centered in the cut-out sections of the gasket and the sides of the pontoons are parallel with the adjacent edges of the gasket.



SETTING  $1\frac{13}{16}$ ", USE SCALE

With the air horn held upright and level, gasket in place and the floats hanging freely, measure the distance from the gasket to the bottom of float at the toe, as shown. Jounce floats lightly with finger to make sure they are in fully settled position. Dimension  $1\frac{13}{16}$ ".


Bend the tang at the rear of the float arms, against the balance spring to decrease float drop and away from the balance spring to increase float drop.

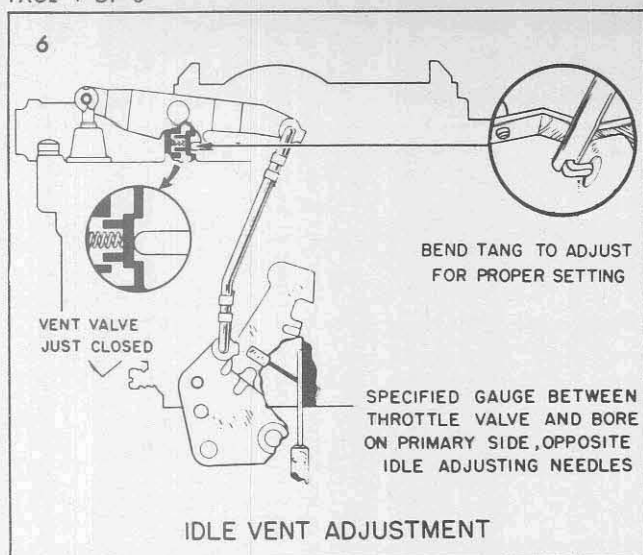


SETTING  $1\frac{15}{16}$ ", SCALE

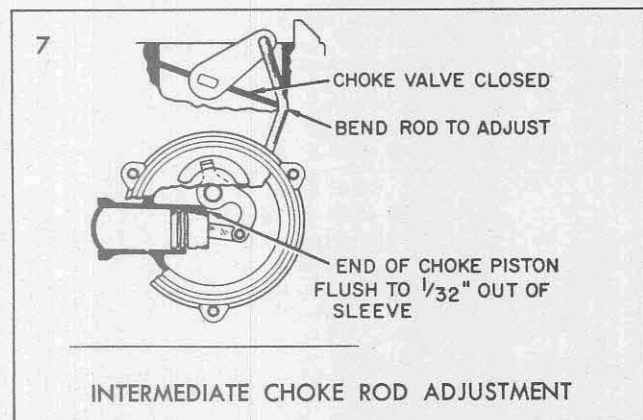
Back out fast and slow idle screws until throttle valves are completely closed. Place scale on top of air horn next to pump plunger, as shown. With the throttle valves closed dimension should be  $1\frac{15}{16}$ ".

Bend the pump rod with Bending Tool BT-18 as shown to adjust.


**FLOAT TOE ADJUSTMENT**  
 With air horn inverted, lower edge of toe of float should be flush with casting surface.

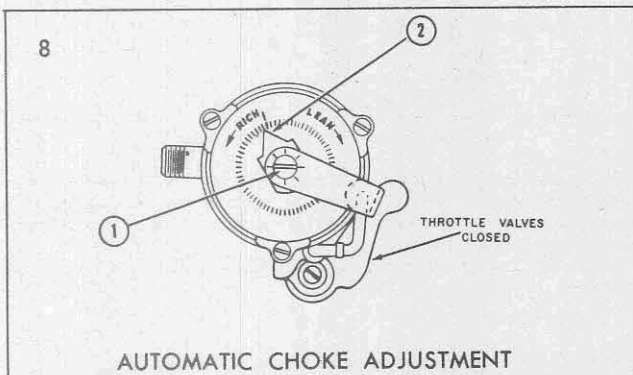


With the primary throttle valves closed against a .063 wire gauge (BT-79), bend the idle vent tang with Bending Tool BT-69 so that the tang just touches the face of the valve.



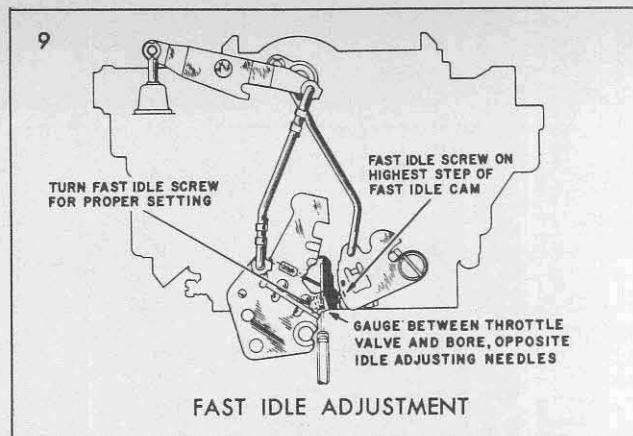
#### USE BENDING TOOL BT-18

Holding the choke valve closed, bend the intermediate choke rod as necessary so that the end of the choke piston is flush to  $\frac{1}{32}$ " out of the choke piston sleeve.



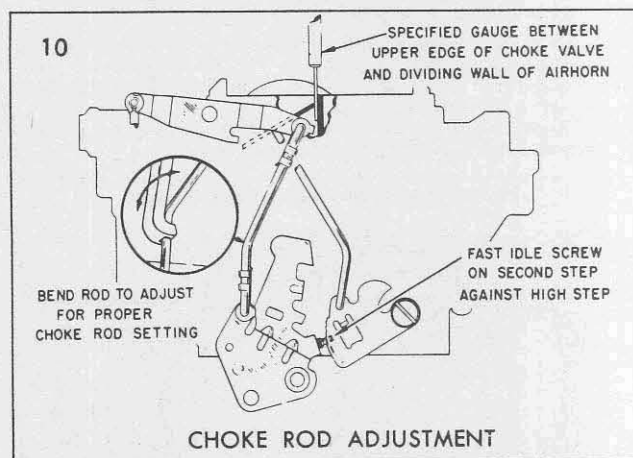
SETTING EARLY INDEX (WINTER)  
2 NOTCHES RICH (SUMMER)  
SETTING LATE INDEX

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 on the choke cover. Tighten the lock screw securely. (Late carb will have letter "D" on tag or orange paint on index pointer)



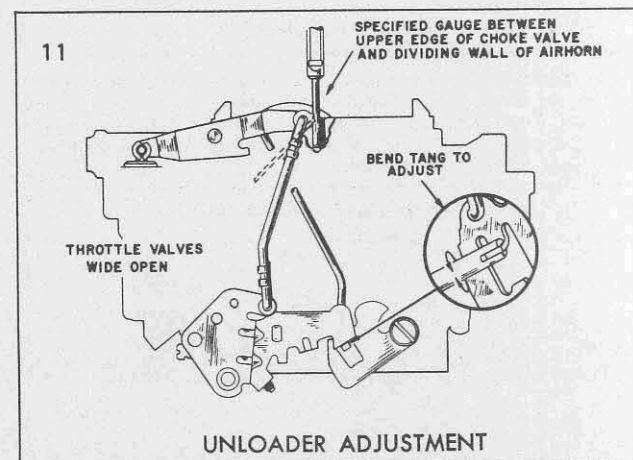
#### SETTING .020", GAUGE BT-67

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 1700 R.P.M. on high step of cam.



#### SETTING .040", USE TOOL BT-18, GAUGE BT-102

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 .040" between the choke valve edge and the dividing air horn wall.



#### SETTING .125", USE TOOL BT-69, GAUGE BT-102

Bend the unloader tang on the fast idle cam to obtain a clearance of .125" between the choke valve edge and the dividing air horn wall with the throttle valves wide open.



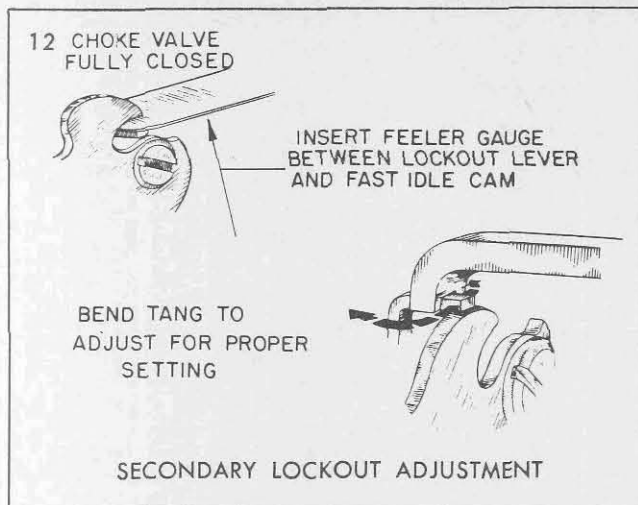
# Rochester Carburetors

## MODEL 4GC

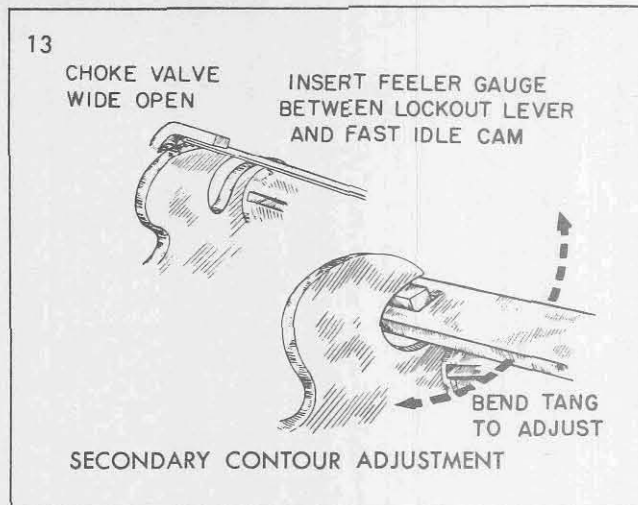
### 1957 CADILLAC

#### ADJUSTMENTS AND SPECIFICATIONS

BULLETIN 9C-208  
PAGE 5 OF 5  
DATE: AUGUST, 1958



SETTING .015", USE TOOL BT-91A  
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.



(DIMENSION .015)  
With the choke valve fully open and the secondary throttle valves partly open, there should be sufficient clearance between the lockout lever and the fast idle cam to allow free movement of the secondary valve shaft. Adjust with Bending Tool BT-91A to the specification listed below.

QUICK REFERENCE ADJUSTMENT SPECIFICATIONS		
ADJUSTMENT	DIMENSION	TOOL NO.
FLOAT LEVEL	1-3/8"	*BT-132
FLOAT DROP	1-13/16"	SCALE
PUMP ROD	15/16"	SCALE
INTERMEDIATE CHOKE ROD	0-1/32"	—
IDLE VENT	.063	BT-79
AUTOMATIC CHOKE	INDEX (See Step 8)	—
CHOKE ROD	.040	BT-102
UNLOADER	.125	BT-102
FAST IDLE	.020	BT-67
SECONDARY LOCKOUT	.015	FEELER GAUGE
SECONDARY CONTOUR	.015	FEELER GAUGE

\* NEW TOOLS

CARBURETOR TOOLS AND GAUGES AS LISTED  
ARE AVAILABLE THROUGH ROCHESTER CARBURETOR DISTRIBUTORS

A GENERAL MOTORS PRODUCT

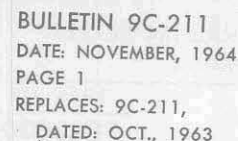


A UNITED MOTORS-AC LINE

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







**AIR HORN PARTS**

**FLOAT BOWL PARTS**

**THROTTLE BODY PARTS**

**CHOKE PARTS**

**THROTTLE RETURN CHECK**

**IDLE SPEED-UP CONTROL**

[illegible]

	1959-60	1961-62	1963	1964	1965	YEAR
	7013030	7019030	7023030	7024030	7025030	STANDARD CARBURETOR No.
	7013031	7019031	7023031	7024031	7025031	AIR CONDITIONED CARB. No.

Illus. No.	FLOAT BOWL PARTS (Continued)					
30	7001605	7001605	7001605	7001605	7001605	Retainer—Pump Strainer
31	7005286	—	—	—	—	Sight Plug
31A	—	7019644	7019644	7019644	7019644	Baffle—Main Metering—Primary Side
32	7013526	7019693	7025762	7027719	7027719	Float Bowl Assembly
33	7013909	7013909	7025713	7031041	7031041	Venturi Cluster—Primary
34	7015142	7015142	7025715	7025715	7025715	Venturi Cluster—Secondary
35	7010421	7010421	7010421	7010421	7010421	Screw—Venturi Cluster
36	121841	121841	121841	121841	121841	Lockwasher—Cluster Screw
37	7007803	7007803	7007803	7007803	7007803	Gasket—Venturi Cluster
38	7002658	7002658	7002656	7002654	7002654	Jet—Primary—Standard
38	7008684	7008678	7008675	7008683	7008683	Jet—Secondary—Standard
39	7010918	7010918	7010918	7010918	7010918	Power Valve Assembly
40	7001613	7001613	7001613	7001613	7001613	Gasket—Power Valve
41	7015174	7015174	7015174	7015174	7015174	Auxiliary Throttle Valve Assembly
42	7015127	7015127	7015127	7015127	7015127	Screw—Idle Compensator
43	7013341	7013341	7013341	7013341	7013341	Gasket—Idle Compensator
44	7013527	7013527	7024873	7028920	7028920	Idle Compensator Kit

CHOKE PARTS						
45	7007502	7007502	7007502	7007502	7007502	Gasket—Choke Housing
46	7010336	7010336	7025570	7025570	7025570	Choke Housing Assembly
47	7019516	7019516	7019516	7019516	7019516	Screw—Choke Housing
48	7010598	7010598	7010598	7010598	7010598	Baffle Plate
49	7002760	7002760	7002760	7002760	7002760	Gasket—Stat Cover
50	7013714	7013714	7013714	7027720	7027720	Stat Cover, Coil and Gasket Assembly
51	7019709	7019709	7019709	7019709	7019709	Screw—Trip Lever
52	7000196	7000196	7000196	7000196	7000196	Trip Lever
53	7009626	7009626	7009626	7009626	7009626	Choke Lever and Collar Assembly
54	7000191	7019703	7000191	7000191	7000191	Choke Valve
55	7007627	7007627	7007627	7007627	7007627	Screw—Choke Valve
56	7007143	7007143	7007143	7007143	7007143	Choke Shaft and Lever Assembly
57	7012294	7012294	7012294	7012294	7012294	Choke Piston
58	7010746	7010746	7010746	7010746	7010746	Pin—Choke Piston
59	7002814	7002814	7002814	7002814	7002814	Plug—Lead Ball
60	7003135	7003135	7003135	7003135	7003135	Plug—Expansion
61	7000614	7000614	7000614	7000614	7000614	Retainer—Stat Cover
62	7011270	7011270	7011270	7011270	7011270	Screw—Stat Cover
63	7007503	7007503	7025572	7025572	7025572	Intermediate Choke Shaft
64	7012748	7012748	7012748	7012748	7012748	Choke Lever and Link Assembly
65	7019709	7019709	7019709	7019709	7019709	Screw—Choke Piston Lever
66	7010357	7010357	7010357	7010357	7010357	Rod—Intermediate Choke
67	7005109	7005109	7005109	7005109	7005109	Clip—Intermediate Choke Rod

THROTTLE BODY PARTS						
68	7013580	7013580	7013580	7013580	7013580	Gasket—Throttle Body
69	7004324	7004324	7004324	7004324	7004324	Screw—Throttle Body—Large
70	7015105	7015105	7015105	7015105	7015105	Screw—Throttle Body—Small
71	121744	121744	121744	121744	121744	Lockwasher—Small Screws
72	7011546	7011546	7011546	7011546	7011546	Fast Idle Screw
73	7001690	7001690	7001690	7001690	7001690	Spring—Fast Idle Screw
74	7009059	7009059	7025393	7009059	7009059	Cam—Fast Idle
75	7003561	7003561	7003561	7003561	7003561	Screw—Cam Attaching
76	7005109	7005109	7005109	7005109	7005109	Clip—Choke Rod
77	7010359	7010359	7010359	7010359	7010359	Choke Rod
78	7003137	7003137	7003137	—	—	Clip—Pump Rod
79	7010358	7010358	7010358	7028590	7028590	Pump Rod
80	7005032	7005032	7005032	7005032	7005032	Clip—Pump Rod
81	7006475	7006475	7006475	7006475	7006475	Expansion Plug
82	7012704	7012704	7012704	7012704	7012704	Idle Air Adjusting Screw
83	7012557	7012557	7012557	7012557	7012557	Spring—Idle Air Screw
84	7013116	7013116	7013116	7013116	7013116	Idle Needle
85	7011479	7011479	7011479	7011479	7011479	Spring—Idle Needle
86	7010352	7010352	7010352	7010352	7010352	Link—Secondary Lever
87	7005032	7005032	7005032	7005032	7005032	Clip—Secondary Link
88	7013528	7013528	7025763	7027721	7027721	Throttle Body Assembly
89	1477371	1477371	1477371	1477371	1477371	Gasket—Flange

IDLE SPEED UP CONTROL PARTS (AIR CONDITIONED ONLY)						
90	7022877	7022877	7023091	7023091	7023091	Idle Speed Up Control Assembly
91	7006308	7006308	7006308	7006308	7006308	Contract Screw
92	7022876	7022876	—	—	—	Solenoid Kit
93	7010558	7010558	—	—	—	Diaphragm and Bracket Assembly
94	7010554	7010554	7010554	7010554	7010554	Idle Speed Up Lever and Collar Assembly
95	7010557	7010557	7010557	7010557	7010557	Spring—Idle Speed Up Lever Return
96	7006119	7006119	7006119	7006119	7006119	Screw—Control Attaching
97	120217	120217	120217	120217	120217	Lockwasher—Control Screw
98	7009768	7009768	—	—	—	Nylon Clip—Lead Wires
—	7022878	7022878	7025771	7025771	7025771	Air Conditioning Adaptor Kit
—	7010353	7010353	7010353	7010353	7010353	Lever—Speed Up Contact
—	7010354	7010354	7010354	7010354	7010354	Washer—Control Lever
—	7010435	7010435	7010435	7010435	7010435	Screw—Contact Lever

THROTTLE RETURN CHECK PARTS						
99	7009870	7009870	7009870	7009870	7009870	Check Valve
100	7010950	7010950	7010950	7010950	7010950	Throttle Return Check Assembly





# Rochester Carburetors

## TRIPLE POWER PACK — MODEL 2GC

1959-1960 CADILLAC

## TRIPLE TWO-BARREL CARBURETOR INSTALLATION

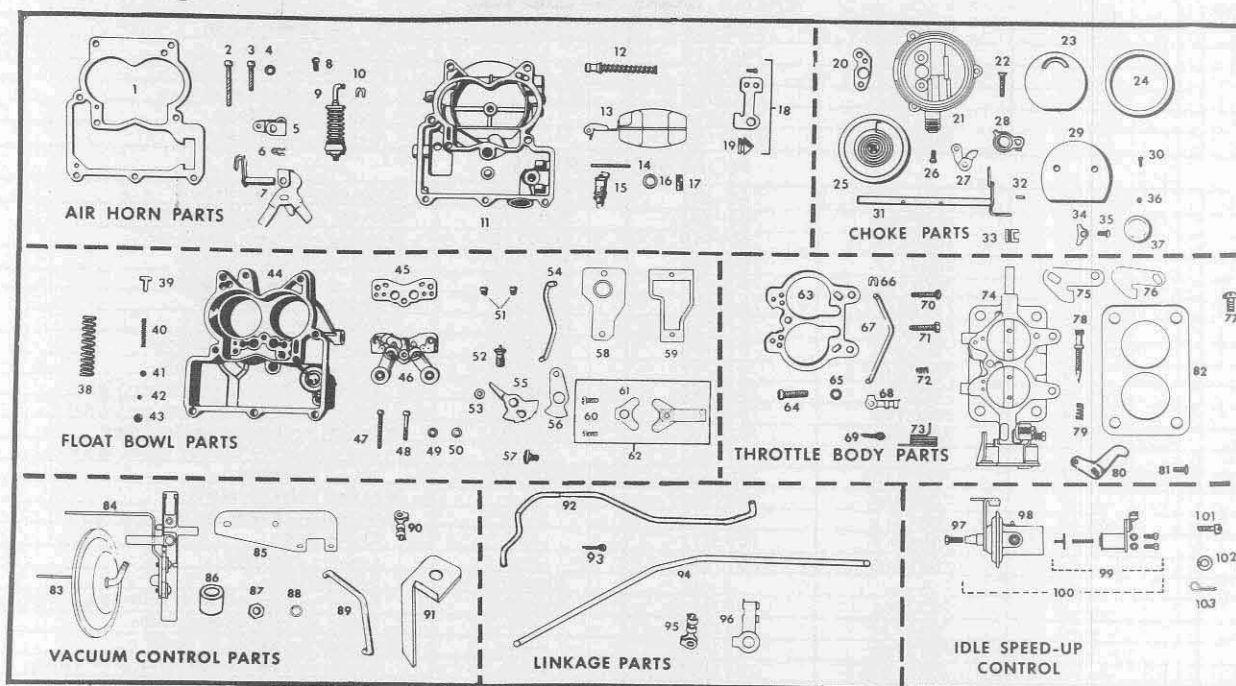
BULLETIN 9C-212

PAGE 1 OF 6

DATE: OCTOBER, 1959

REPLACES:

9C-212, OCT., 1958



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

	FRONT	CENTER		REAR	
	STD. & A.C.	STANDARD	AIR COND.	STD. & A.C.	APPLICATION
	<b>7013033</b>	<b>7013034</b>	<b>7013037</b>	<b>7013035</b>	<b>Carburetor No.</b>
	<b>7013033</b>	<b>7013034</b>	<b>7013034</b>	<b>7013035</b>	<b>Replacement Carburetor No.</b>
	<b>7013032 STD.</b>		<b>7013036 A.C.</b>		<b>Complete Power Package No.</b>
	7015961	7015938	7015938	7015961	MASTER REPAIR KIT
	7015957	7015942	7015942	7015957	GASKET KIT
<b>Illus. No.</b>	<b>AIR HORN PARTS</b>				
1	7010038	7008600	7008600	7010038	★Gasket — Air Horn
2	7014280	7010432	7010432	7014280	Screw — Air Horn — Long
3	7006119	7006119	7006119	7006119	Screw — Air Horn — Short
4	120217	120217	120217	120217	Lockwasher — Air Horn Screws
5	7013253	7000266	7000266	7013253	Lever — Pump Inside
6	149505	—	—	149505	★Retainer — Pump Lever
7	7013250	7012134	7012134	7013250	Pump Shaft and Lever Assembly
8	—	7010424	7010424	—	Screw — Pump Lever
9	7015297	7000278	7000278	7015297	★Pump Assembly
10	7005032	7005032	7005032	7005032	★Clip — Pump Plunger
11	7013900	7015514	7015514	7013885	Air Horn Assembly
12	—	7011478	7011478	—	Power Piston Assembly
13	7012028	7000273	7000273	7012028	Float Assembly
14	7010037	7002081	7002081	7010037	Pin — Float Hinge
15	7013787	7012602	7012602	7013787	★Needle and Seat Assembly
16	7001613	7001613	7001613	7001613	★Gasket — Needle Seat
17	7013249	7006079	7006079	7013249	★Strainer — Needle Seat
18	—	7012252	7012252	—	Idle Vent Valve Kit
19	—	7007129	7007129	—	Idle Vent Valve
—	—	7012835	7012835	—	Shield — Idle Vent
	<b>CHOKE PARTS</b>				
20	—	7007502	7007502	—	★Gasket — Choke Housing
21	—	7012813	7012813	—	Choke Housing Assembly
22	—	7004821	7004821	—	Screw — Choke Housing
23	—	7006643	7006643	—	Baffle Plate
24	—	7002760	7002760	—	★Gasket — Stat Cover
25	—	7013906	7013906	—	Stat Cover, Coil and Gasket Assembly
26	—	1875051	1875051	—	Screw, Trip Lever
27	—	7013379	7013379	—	Trip Lever
28	—	7009248	7009248	—	Choke Lever and Collar Assembly
29	—	7000255	7000255	—	Choke Valve
30	—	7007627	7007627	—	Screw — Choke Valve
31	—	7011511	7011511	—	Choke Shaft Assembly

★ MASTER REPAIR KIT CONTENTS

PRINTED IN CANADA

	FRONT	CENTER		REAR	
	STD. & A.C.	STANDARD	AIR COND.	STD. & A.C.	APPLICATION
	7013033	7013034	7013037	7013035	Carburetor No.

Illus. No. CHOKE PARTS — Continued

32	—	7010746	7010746	—	Pin — Choke Piston
33	—	7012610	7012610	—	Piston — Choke
34	—	7000614	7000614	—	Retainer — Stat Cover
35	—	7010424	7010424	—	Screw — Stat Cover
36	—	7002814	7002814	—	Plug — Lead Ball
37	—	7003135	7003135	—	Plug — Expansion

FLOAT BOWL PARTS

38	7004597	7004597	7004597	7004597	★ Spring — Pump Return
39	7000286	7000286	7000286	7000286	★ Guide — Pump Discharge
40	7002118	7002118	7002118	7002118	★ Spring — Pump Discharge
41	7002117	7002117	7002117	7002117	★ Ball — Pump Discharge
42	7002120	7002120	7002120	7002120	★ Ball — Pump Inlet Check
43	7004557	7004557	7004557	7004557	★ Screen — Pump Inlet
44	7013552	7013798	7013798	7013552	Float Bowl Assembly
45	7008893	7000292	7000292	7008893	★ Gasket — Venturi Cluster
46	7013259	7013747	7013747	7013259	Venturi Cluster Assembly
47	7008502	7000293	7000293	7008502	Screw — Venturi Cluster — Outer
48	7009077	7000294	7000294	7009077	Screw — Venturi Cluster — Center
49	7008892	7000295	7000295	7008892	★ Gasket — Cluster Center Screw
50	120217	121841	121841	120217	Lockwasher — Cluster Outer Screws
51	7002967	7002660	7002660	7002967	Jet — Standard
52	—	7009349	7009349	—	★ Power Valve Assembly
53	—	7001613	7001613	—	★ Gasket — Power Valve
54	—	7005817	7005817	—	Choke Rod
55	—	7011346	7011346	—	Cam — Fast Idle
56	—	—	—	7011878	Lockout Lever
57	—	7003561	7003561	7003561	Screw — Lockout Lever and Cam Attaching
58	—	7013937	7013937	—	Cover — Idle Compensator
59	—	7013736	7013736	—	★ Gasket — Cover to Bowl
60	—	7015127	7015127	—	Screw — Idle Compensator and Cover
61	—	7013341	7013341	—	★ Gasket — Idle Compensator
62	—	7013527	7013527	—	Idle Compensator Kit

THROTTLE BODY PARTS

63	7015106	7013680	7013680	7015106	★ Gasket — Throttle Body
64	7015105	7015105	7015105	7015105	Screw — Throttle Body
65	121744	121744	121744	121744	Lockwasher — Throttle Body Screw
66	7005032	7005032	7005032	7005032	★ Clip — Pump Rod
67	7013276	7015101	7015101	7013276	Pump Rod
68	7010773	—	—	7010773	★ Clip — Pump Rod
69	—	225845	225845	—	★ Cotter Pin — Pump Rod (1)
70	—	7001619	7001619	—	Idle Stop Screw
71	—	7003122	7003122	—	Fast Idle Screw
72	—	7003176	7003176	—	Spring — Fast Idle and Idle Stop Screws
73	7011895	—	—	7011895	Spring — Throttle Return
74	7013553	7013554	7013554	7013555	Throttle Body Assembly
75	—	—	—	7011894	Lever — Rear Carburetor Actuating
76	7011897	—	—	—	Lever — Front Carburetor Actuating
77	7010435	—	—	7010435	Screw — Actuating Levers
78	—	7013116	7013116	—	★ Idle Needle
79	—	7011479	7011479	—	Spring — Idle Needle
80	—	—	7012614	—	Lever — Speed-up Contact
81	—	—	7010435	—	Screw — Lever Attaching
82	536477	1411095	1411095	536477	★ Gasket — Flange

VACUUM CONTROL PARTS

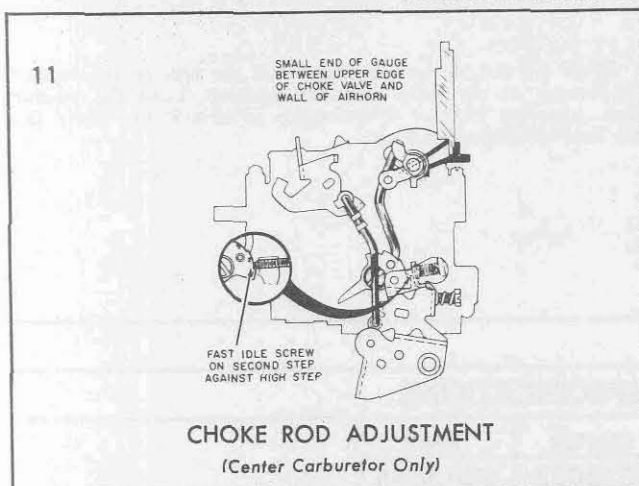
83	—	—	—	1998858	Vacuum Control Unit
84	—	7013328	7013328	—	Vacuum Switch
85	—	—	—	7012832	Bracket—Vacuum Control & Retracting Spring
86	—	—	—	7013275	Spacer — Bracket
87	—	—	—	120614	Nut — Bracket Attaching
88	—	—	—	120217	Lockwasher — Bracket Attaching
89	—	—	—	7011428	Link — Vacuum Control Actuating
90	—	—	—	7011249	★ Clip — Link Retaining
91	—	—	—	7013738	Bracket — Lockout Lever Link Guide

ILLUS. NO. LINKAGE PARTS

92	7013739	Link — Choke Lockout Lever
93	225845	Cotter Pin — Rod End
94	7013247	Link — Front to Rear Carburetors
95	7011249	Clip — Throttle Link — Rear
96	554285	Clip — Throttle Link — Front

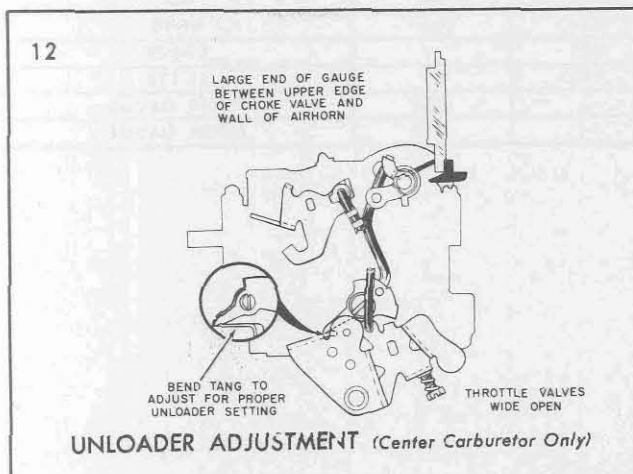
ILLUS. NO. IDLE SPEED-UP CONTROL PARTS

97	7008993	Contact Screw
98	7012221	Diaphragm and Bracket Assembly
99	7011271	Solenoid Kit
100	7012898	Idle Speed-Up Control
101	7011270	Screw — Control Attaching
102	121841	Lockwasher — Control Screw
103	7009768	Clip — Lead Wires



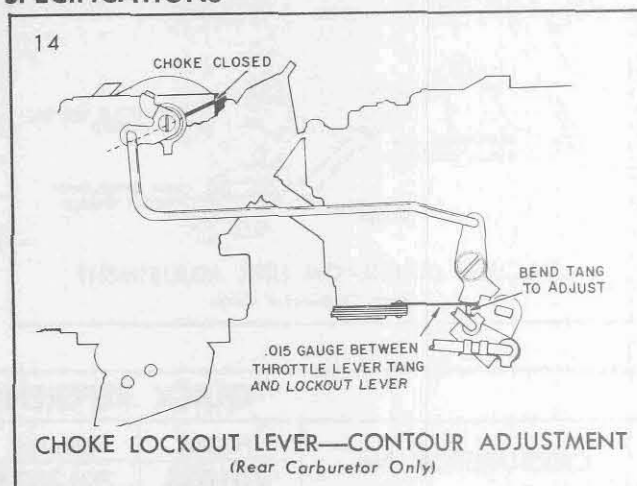
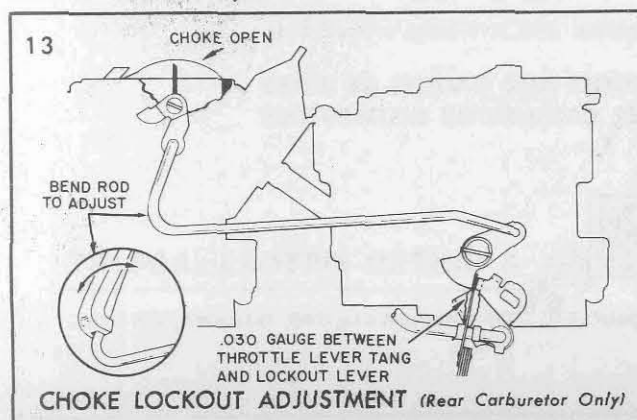
SETTING .061", GAUGE BT-128

Place the fast idle screw on the second step of the fast idle cam next to the high step. Make sure choke trip lever is in contact with the choke counterweight lever. Bend counterweight tang as shown so that gauge just fits between the upper edge of the choke valve and air horn wall.



SETTING .163", GAUGE BT-128

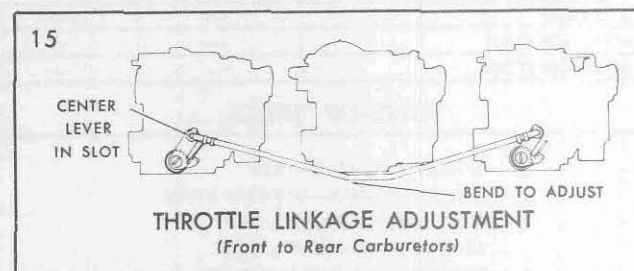
With the throttle valves held wide open the choke valve should be open just enough to admit the large end of gauge between the upper edge of the choke valve and inner air horn wall. Bend the tang on the throttle lever with Bending Tool BT-69 as shown, to adjust.



SETTING .015", USE FEELER GAUGE

This adjustment is necessary to maintain the proper clearance between the contour portion of the lockout lever and the lockout tang on the throttle lever.

To adjust hold the throttle valves (front carburetor) completely closed. With the choke valve on the center carburetor in the closed position and the choke lockout lever rod connected, bend the lockout tang on the throttle lever (front carburetor) to obtain .015" clearance between the lockout lever and tang on the throttle lever as shown.



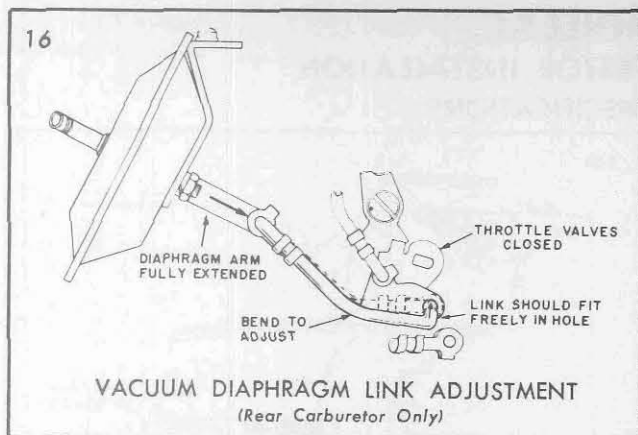
Disconnect rear end of throttle actuating rod which connects the throttle levers on the front and rear carburetors together. With both the throttle valves closed on the front and rear carburetors the rod should center in the slot in the throttle lever on the rear carburetor. Bend the throttle rod with Bending Tool BT-18 to adjust. Connect throttle rod after adjustment.

SETTING .030", USE FEELER GAUGE

This adjustment is necessary to locate the lockout lever on the front carburetor in the proper position so that only the center carburetor will operate during choke operation. This adjustment must be made with the carburetor installed on the engine and the lockout linkage installed as shown.

To adjust hold the choke valve (center carburetor) in the wide open position. With the throttle valves slightly open on the front carburetor there should be a clearance of .030" between the lockout lever and the throttle lever on the front carburetor as shown. Measure clearance with a feeler gauge and bend the lockout rod with Bending Tool BT-18 to adjust.





With the throttle valves closed and the arm on the vacuum diaphragm in the fully extended position, bend the vacuum unit actuating link — if necessary so that it fits freely into the hole in the throttle lever.

### QUICK REFERENCE SPECIFICATIONS

CARBURETOR No.	FRONT 701033	CENTER 7013034	CENTER 7013037	REAR 7013035	
ADJUSTMENTS	DIMENSION	DIMENSION	DIMENSION	DIMENSION	GAUGE No.
FLOAT LEVEL	23/32"	15/16"	15/16"	23/32"	BT-158
FLOAT DROP	1-29/32"	1-29/32"	1-29/32"	1-29/32"	BT-158
PUMP ROD	7/8"	1-3/16"	1-3/16"	7/8"	BT-158
IDLE VENT	—	1-1/16"	1-1/16"	—	BT-158
VACUUM SWITCH	—	1-5/32"	1-5/32"	—	SCALE
AUTOMATIC CHOKE	—	INDEX	INDEX	—	—
FAST IDLE	—	.024	.024	—	BT-90
CHOKE ROD	—	.061	.061	—	BT-128
UNLOADER	—	.163	.163	—	BT-128
CHOKE LOCKOUT	—	—	—	.030	FEELER GAUGE
CHOKE CONTOUR	—	—	—	.015	FEELER GAUGE

### TUNE-UP SPECS.

SPARK PLUG GAP—.035"  
BREAKER POINTS—USE CAM DWELL  
CAM DWELL—28° TO 32°  
IGNITION TIMING 7½° BTDC  
VACUUM LINE DISCONNECTED

IDLE RPM —  
STD. 450 "DR"  
A.C. 450 "DR"  
(A.C. ON)

NOTE: Idle Compensator  
Valve Must Be Closed.

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

Refer to Bulletin 9D-10A for basic operation and overhaul procedures.

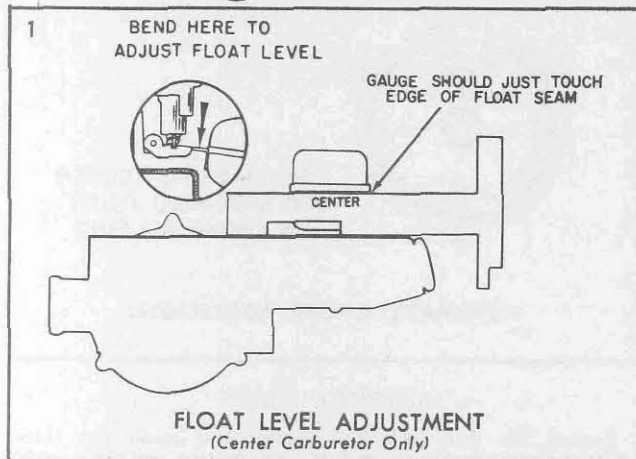
**COMPLETE MANUALS, CARBURETOR TOOLS AND GAUGES AS LISTED  
ARE AVAILABLE THROUGH ROCHESTER CARBURETOR DISTRIBUTORS**

**A GENERAL MOTORS PRODUCT**



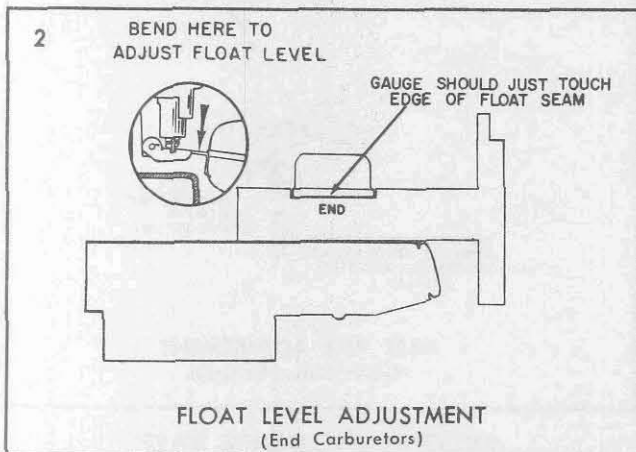
**A UNITED MOTORS-AC LINE**

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



SETTING 15/16" —GAUGE BT-158

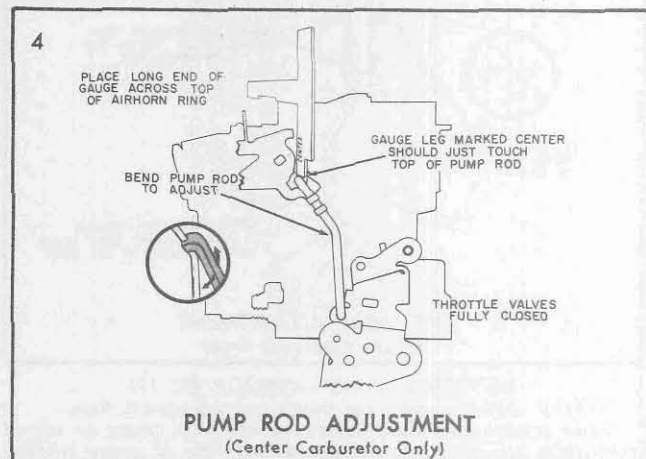
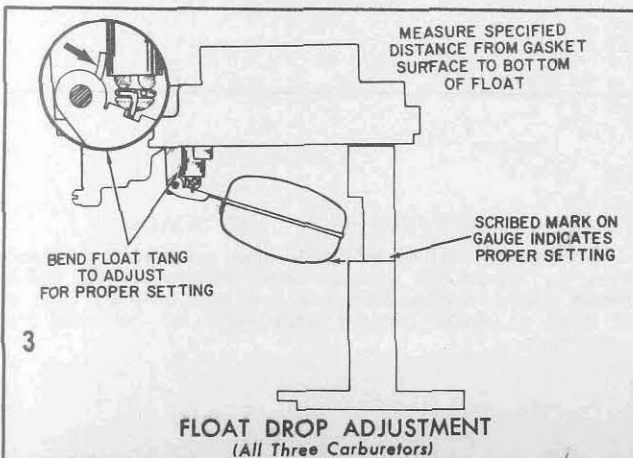
With the air horn inverted and gasket installed, use combination float level gauge and check the distance between the gasket and sharp edge of the float seam, (Lower edge). Use wide portion of gauge marked "center" for checking the float setting as shown. To adjust bend the float arm at the rear of the float pontoon.



SETTING 23/32" —GAUGE BT-158

With air horn inverted and gasket installed, use combination float level gauge and check the distance between the gasket and the sharp edge of both seams, (lower edge). Use cut-out portion of gauge marked "end" for checking the float setting on the end carburetors.

To adjust, bend the float arm at the rear of the float pontoon.



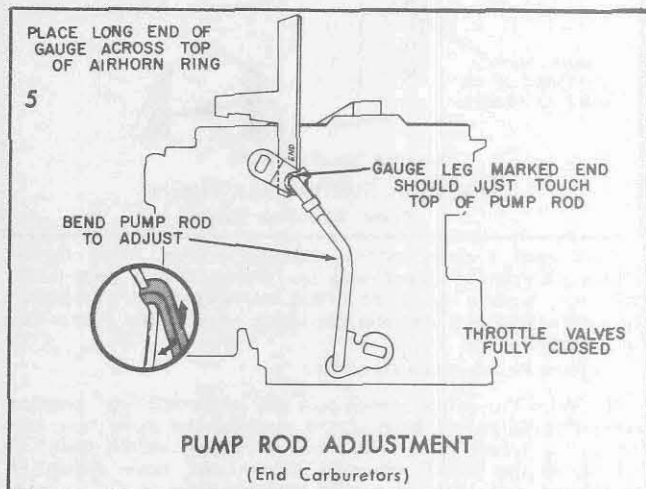
SETTING 1-3/16" —GAUGE BT-158

Back out fast and slow idle screws and completely close throttle valves in bore. Place combination float, pump and idle vent gauge on the top of carburetor air horn ring as shown, with leg of gauge marked "pump" pointing downward towards top of pump rod.

The lower edge of the gauge leg marked "center" should just touch top of pump rod.

NOTE: The pump rod adjustment on the center carburetor and end carburetors have two different settings. Use the portion of the combination gauge marked "center" for checking the center pump rod adjustment and the portion of the gauge marked "end" for checking the end carburetor pump rod adjustment.

Bend the pump rod as shown to obtain the proper setting.



SETTING 7/8" —GAUGE BT-158

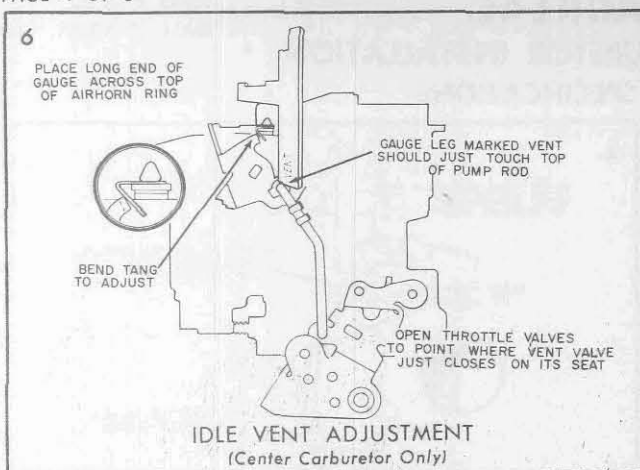
Completely close throttle valves in bore. Place combination float, pump and idle vent gauge on the top of the carburetor air horn ring, as shown; with leg of gauge marked "pump" pointing downward towards top of pump rod.

The lower edge of gauge leg marked "end" should just touch top of pump rod. Bend the pump rod, as shown, to obtain the proper setting.

SETTING 1-29/32" —GAUGE BT-158

With the air horn held upright and gasket in place, measure the distance from the gasket to the bottom of the float pontoon as shown. Drop may be measured using combination float gauge or scale.

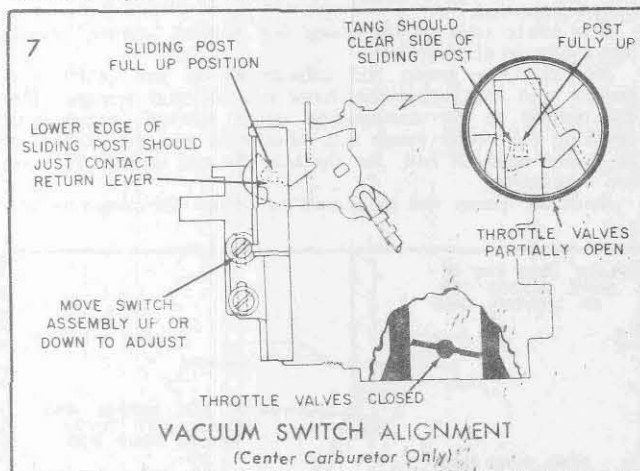
Bend the float tang at the rear of the float to adjust; towards needle seat to lessen drop and away from needle seat to increase drop.



SETTING 1-1/16" - GAUGE BT-158

NOTE: Always make the pump rod adjustment first. Place combination float pump and idle vent gauge on top of carburetor air horn ring as shown, with leg of gauge marked "vent" pointing downward toward pump rod as shown.

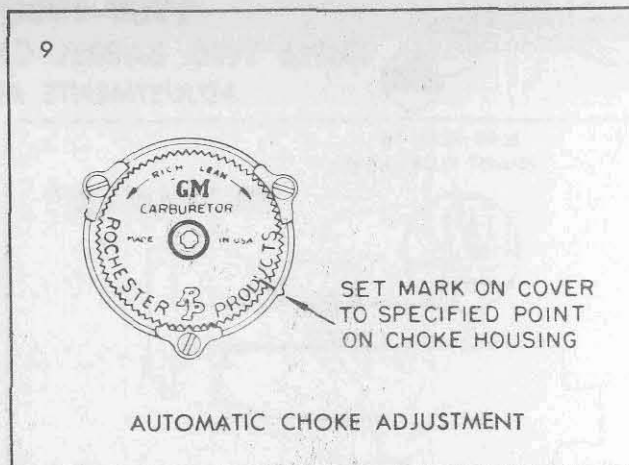
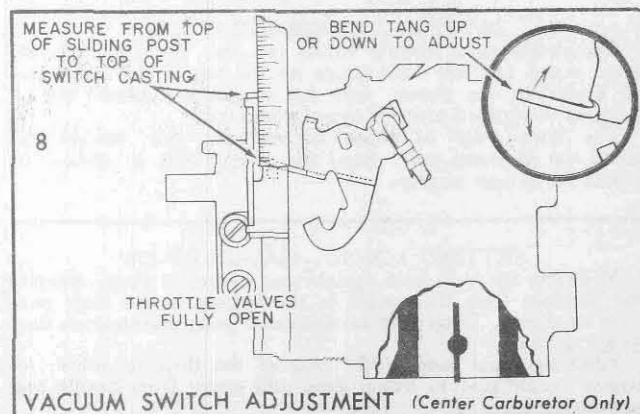
With the gauge held in this position, slowly open throttle valves to the point where the rubber vent valve just closes on its seat. The lower edge of the gauge leg marked "vent" should just touch the top of the pump rod. Bend the tang on the pump lever to adjust.



1—Loosen vacuum switch retaining screws. With throttle valves completely closed and the sliding switch post in the full "up" position, move the switch assembly down until bottom of switch post just contacts the inside edge of the return tang of the pump lever.

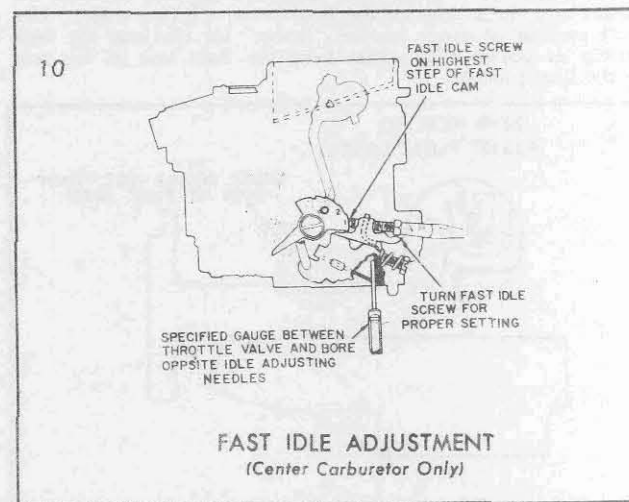
Tighten switch retaining screws.

2—With the sliding switch post still in the full "up" position, open throttle valves from closed position and make sure tang on switch return lever clears side of sliding switch post. To adjust, loosen switch retaining screws and move switch assembly away from tang on switch return lever.



SETTING—INDEX

Loosen the three retaining screws and rotate the choke cover counter-clockwise against coil tension until the index mark is in line with the index point on the choke housing. At room temperature the choke valve should be lightly closed.



SETTING .024", GAUGE BT-90

With the choke valve closed and the fast idle screw resting on the high step of the fast idle cam, place gauge between the throttle valve and bore opposite the idle needles. Turn the fast idle screw in until gauge just drops out.

Note: This is a preliminary adjustment; final adjustment should be made on the car with the engine running. Fast idle 1700 RPM.

SETTING 1-5/32", USE SCALE

With throttle valves held wide open, measure the distance from the top of the vacuum switch housing to the sliding switch post, as shown. To adjust, bend tang on pump lever up or down to obtain required cut-in point for front and rear carburetors.