



FLOAT SETTING INSTRUCTIONS

SINGLE BORE



AS



BB



BBG



WA-1



WC



YT

TH
(HORIZONTAL)

2-BORE



BB



WCO



WCD

4-BORE



AFB



WCF

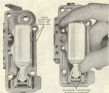


Figure 1

FLOAT ALIGNMENT ADJUSTMENT (Fig. 1)

1. Tight down the side of the float shell to determine if the side of the float is parallel to the outer edge of the air horn casting. **TO ADJUST:** Bend float lever by applying pressure to the end of the float shell with the fingers while supporting the float lever with the thumb.

CAUTION: To avoid damaging the float, apply only enough pressure to bend float lever.

2. After aligning float, remove as much clearance as possible between area of float lever and lugs on air horn by bending the float lever. Area of float lever should be as parallel to the inner surfaces of lugs on air horn as possible.

Float must operate freely without excess clearance on its hinge pin.



Figure 2

FLOAT LEVEL ADJUSTMENT (Fig. 2)

1. On all models, except the AFB, remove the bowl cover gasket.
2. With the air horn inverted and the float resting on the vented intake needle, check the distance from the air horn to the float with the specified gauge at the following locations:

WCD-YF-YH - Gauge at the corner of the float between the float shell and air horn. See Fig. 3.

WA-1-YH - Gauge at the free end of the float between the projection on the bowl cover and the colored edge of the float arm. See Fig. 2.

AFB - With air horn gasket in place, gauge between the gasket and the float shell over the free end. See Fig. 4.

3. To adjust:
(a) WA-1-YH-YF - Bend tip on float arm.
(b) AFB-WCD-YH - Bend float arm.

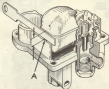


Figure 3

(Measure from point "A" to top of float arm)
Fig. 3

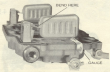


Figure 4

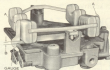


Figure 5 WCD - WCFB

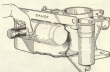


Figure 6 BB

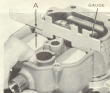


Figure 7 BBD - BB3

MODELS BB - BB3 (SMALL) - BB3

FLOAT ADJUSTMENT (Fig. 6 & 7):

This adjustment must be made with the fuel cover gasket and float pin retainer removed. Hold the tip on float arm against the curved needle needle, making sure the float pin is at the bottom of its guide slots. The distance (A) from the top surface of the body casting to the top of each float should be as listed in carburetor specifications; if one float is lower than the other, equalize by bending the float arm. If both floats require the same correction, adjust by bending tip on float arm. The floats must not rub anywhere against the inner walls of the bowl. If necessary, sand float arm slightly to provide clearance on all sides of floats.

MODELS WCD - WCFB

FLOAT ADJUSTMENT (Fig. 5):

1. Leveling - Place float gauge directly under center of floats with marked portion of gauge lined over edge of casting. Side of floats should just clear the vertical upright (A) of float proper. To adjust, bend arm of floats.
2. Vertical - With float gauge in same position, floats should just clear the horizontal top of gauge. Vertical distance (B) between top of float and machined surface of casting must be as listed in carburetor specifications. To adjust, bend center portion of float arm.

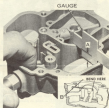


Figure 8 A5

MODELS A5 - BB3 (LARGE)

FLOAT ADJUSTMENT (Fig. 8):

The fuel cover gasket and float pin retainer must be removed. Gauge and adjust each float separately.

1. Hold the tip on float arm against the curved needle making sure the float pin is at the bottom of its guide slots.
2. The distance from the top surface of the body casting to the top of the float (A) should be as listed in carburetor specifications page under float adjustment.
3. Adjust by bending tip on float arm. If necessary, sand float arm slightly to provide clearance on all sides of floats.
4. After float adjustment has been made and with both float tips resting against curved needle, there should be .010" to .015" between even, facing tops on float levers. This can be checked by touching float pin retainer and bending openings upside down of facing floats to drop and make contact against curved needle. Adjust by bending long leg on left hand float.
5. Backcheck float level adjustment.

IMPORTANT ASSEMBLY ADJUSTMENTS

THE FOLLOWING ADJUSTMENTS ARE OFTEN DISTURBED WHEN A CARBURETOR IS TAKEN APART. THEY SHOULD BE CHECKED UPON REASSEMBLY.



Figure 9

METERING ROD (BOTTOMING TYPE)

WCB-400 (RCD LATE MODELS) (Fig. 10)

1. Back out idle speed screw until throttle valve open. (NOTE: Be sure choke is wide open so that idle cam does not hold valve open.)
2. Press down on vacuumer piston link (B) until metering rods bottom in carburetor body.
3. Holding rods in this downward position and with throttle valve closed, rotate metering rod nut (C) until finger on arm contacts tip of vacuumer link. (Hold in place and carefully tighten clamp screw.)

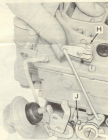


Figure 10

FAST IDLE CAM CLEARANCE ADJUSTMENT

WCB-400 (Fig. 10)

1. Loosen choke lever clamp screw (E) on choke shaft.
2. Hold choke valve tightly closed. Take slack out of linkage by pressing choke lever towards closed position, so that tip of fast idle cam lightly contacts base on finger coating (G) - hold in place. Tighten clamp screw (E).

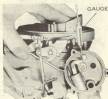


Figure 11

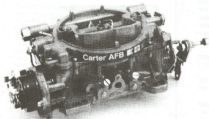
COUNTERSHAFT LINKAGE ADJUSTMENT

AFB (Fig. 11)

1. Loosen countershaft lever clamp screw. Take nut and pin out of countershaft, and hold choke valve tightly closed. Take slack out of linkage by pressing countershaft lever towards closed position with .040" gauge in place between choke lever and shoe in phorn housing. (Hold in place and tighten clamp screw.)



9000 SERIES CARTER® MARINE AFB Electric Choke Model



- Meets U.S. Coast Guard requirements
- One piece aluminum fuel bowl virtually eliminates leakage
- Internally vented fuel bowl
- Metering rod-jet changing can be made with carb on manifold
- Fuel bowl port for fuel pump venting
- Inverted flare fitting for 1/2" tubing
- 5" air horn for flame arrestor
- Universal throttle linkage
- Square hole design replaces O.E. AFB or AFS carbs, as well as square hole Holly, spread bore Holly or Quadrajet with the use of an adaptor (Carter 9600A)
- Electric choke
- Spring loaded needleseat
- Secondary lockout
- Sealed accelerator pump shaft
- Gold colored inlet, corrosion resistant, plated casting
- Teflon-coated shafts and pump arms
- Specially machined throttle shafts
- AFB Historically associated with Chris Craft, Chrysler, Crusader, Mercury and OMC
- 10-201 strip kit available to-line tune AFB

CFM	APPLICATION	PART NO.
625	Universal Linkage/Electric Choke	9641
750	Universal Linkage/Electric Choke	9758

Date		Page		Page	
1. Name		2. Address		3. City	
4. State		5. Zip		6. Phone	
7. Age		8. Sex		9. Religion	
10. Education		11. Occupation		12. Income	
13. Marital Status		14. Number of Children		15. Number of Siblings	
16. Date of Birth		17. Date of Marriage		18. Date of Last Contact	
19. Date of Death		20. Date of Burial		21. Date of Cremation	
22. Date of Interment		23. Date of Reburial		24. Date of Resurrection	
25. Date of Ascension		26. Date of Descent		27. Date of Judgment	
28. Date of Salvation		29. Date of Damnation		30. Date of Redemption	
31. Date of Election		32. Date of Reprobation		33. Date of Vocation	
34. Date of Justification		35. Date of Condemnation		36. Date of Adoption	
37. Date of Sanctification		38. Date of Glorification		39. Date of Resurrection	
40. Date of Ascension		41. Date of Descent		42. Date of Judgment	
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97. Date of Sanctification		98. Date of Glorification		99. Date of Resurrection	
100. Date of Ascension		101. Date of Descent		102. Date of Judgment	

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instruction sheet

Holley Carburetor Model 4150

TYPICAL VIEW

The exploded view shown is typical of the model carburetor in the listed series, the view may differ slightly from that of your carburetor being serviced. **Items included in this kit are shown in red.**

Throttle cable, throttle return cable and any specially required hardware (bracket, adjustment, other cable, pushrod or pin) are included in the kit, compare with requirements.

BEHIE MOTOR

Model 4150-1950

Serial 10 Series 10000



COMPONENTS

ITEM	ITEM	ITEM	ITEM
1. Throttle cable	11. Throttle cable "H" bracket	21. Jet needle	31. Jet needle
2. Throttle return cable	12. Throttle cable bracket	22. Jet needle	32. Jet needle
3. Throttle cable bracket	13. Throttle cable bracket	23. Jet needle	33. Jet needle
4. Throttle cable bracket	14. Throttle cable bracket	24. Jet needle	34. Jet needle
5. Throttle cable bracket	15. Throttle cable bracket	25. Jet needle	35. Jet needle
6. Throttle cable bracket	16. Throttle cable bracket	26. Jet needle	36. Jet needle
7. Throttle cable bracket	17. Throttle cable bracket	27. Jet needle	37. Jet needle
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17. Throttle cable bracket	27. Jet needle	53. Jet needle	54. Jet needle
18. Throttle cable bracket	28. Jet needle	55. Jet needle	56. Jet needle
19. Throttle cable bracket	29. Jet needle	57. Jet needle	58. Jet needle
20. Throttle cable bracket	30. Jet needle	59. Jet needle	60. Jet needle

CARBURETOR ADJUSTMENTS

NOMENCLATURE Continued

REF. NO.		REF. NO.	
14.	Fuel valve seat lockwasher-gasket set.	105.	Secondary diaphragm housing pin.
15.	Fuel valve seat adjusting nut set.	106.	Sec. housing cover screw & lockwasher.
16.	Fuel valve seat adjusting nut set—secondary.	107.	Choke control wire bracket.
17.	Fuel valve valve & seat assembly—secondary.	108.	Sec. housing cover.
18.	Fuel valve seat "O" ring seal assembly.	109.	Sec. diaphragm spring.
19.	Baffle plate-secondary.	110.	Sec. diaphragm & seal assembly.
20.	Float pin—main.	111.	Diaphragm housing (check ball).
21.	Float assembly-secondary.	112.	Sec. diaphragm housing.
22.	Float spring—secondary.	113.	Choke plate screw.
23.	Fuel float check plug.	114.	Choke plate.
24.	Fuel float check plug gasket.	115.	Choke shaft cap.
25.	Secondary metering body screw.	116.	Fuel discharge needle screw.
26.	Secondary metering body plate gasket.	117.	Fuel discharge needle screw gasket.
27.	Secondary metering body plate screw.	118.	Pump discharge needle.
28.	Secondary metering body gasket.	119.	Pump discharge needle.
29.	Choke seal retainer.	120.	Pump discharge needle gasket.
30.	Throttle housing clamp—new.	121.	Fuel discharge needle float.
31.	Throttle housing spring.	122.	A.I.C. choke screw.
32.	Throttle housing assembly.	123.	A.I.C. choke.
33.	Throttle housing gasket.	124.	Idle air compensator assembly.
34.	Throttle shaft nut.	125.	A.I.C. seal.
35.	Throttle shaft lockwasher.	126.	Main body base.
36.	Throttle lever spring.	127.	Range gasket.
37.	Throttle lever link and pinion assembly.	128.	Fuel body screw & lockwasher.
38.	Throttle lever link and pinion cap.	129.	Throttle body.
39.	Choke housing screw & lockwasher.	130.	Throttle body gasket.
40.	Choke housing seal.	131.	Pump operating lever retainer.
41.	Choke housing shaft & lever screw.	132.	Pump operating lever.
42.	Choke throttle lever.	133.	Pump main adj. screw.
43.	Fuel idle cam lever.	134.	Pump main adj. screw spring.
44.	Choke housing gasket.	135.	Pump main adj. screw fitting.
45.	Choke nut.	136.	Pump main link screw.
46.	Choke nut seal.	137.	Link pin.
47.	Fuel idle cam plate screw & lockwasher.	138.	Throttle synchronizer pin retainer.
48.	Choke control lever nut.	139.	Throttle synchronizer screw pin.
49.	Choke synchronizer nut lockwasher.	140.	Throttle stop screw.
50.	Choke lever bracket assembly.	141.	Throttle stop screw spring.
51.	Fuel idle cam plate.	142.	Fast idle compensator screw & lockwasher.
52.	Fuel idle cam & shaft assembly.	143.	Fast idle pin & nut lever.
53.	Fuel idle cam gasket.	144.	Fast idle compensator spring.
54.	Fuel idle cam pinion spring.	145.	Fast idle cam lever.
55.	Choke open lever spring washer.	146.	Fast idle cam lever adjusting screw.
56.	Choke open lever washer.	147.	Fast idle cam lever screw spring.
57.	Back upplate—main.	148.	Diaphragm main seal screw & lockwasher.
58.	Back upplate—main lockwasher.	149.	Diaphragm lever seal.
59.	Choke spring washer.	150.	Diaphragm lever adjusting screw.
60.	Choke spring.	151.	Throttle plate screw pinion.
61.	Choke and lever & bushing cap.	152.	Throttle plate pinion.
62.	Back upplate & seal assembly.	153.	Throttle plate screw secondary.
63.	Sec. diaphragm retainer.	154.	Throttle plate screw assembly.
64.	Diaphragm housing screw & lockwasher.	155.	Throttle shaft bushing (check ball).
		156.	Throttle shaft bushing lock pin.

CLEANING

Cleaning must be done with carburetor disassembled. Soak parts long enough to soften and remove all foreign material. Use a non-toxic solvent, kerosene thinner or denatured alcohol. Make certain the throttle body is free of all hard carbon deposits. Wash off in suitable solvent, then hot oil or kerosene or kerosene with compressed air and check carefully to insure thorough cleaning of interior parts.

CAUTION: Do not soak parts containing rubber or plastic material. Swelling damage could result.

Fuel lines, should only be exposed to carburetor cleaner long enough to permit removal of gum and varnish deposits with a brush. **NOTE:** Some fuel lines have internal "O" ring seals which are not removable, but can be damaged by prolonged exposure to some carburetor cleaning solvents.

REASSEMBLY

Reassemble in reverse order to disassembly. Use special instructions toward follow-up/after tuning adjustments.

Manually operate the throttle lever and choke mechanism, checking for binding or malfunction. Any binding or interference must cause throttle to stick during operation and result in loss of carburetor throttle control for uncontrolled engine speed.

Check carburetor to be sure there are no leaks, flooding, which might cause stalling.

SPECIAL INSTRUCTIONS

IDLE ADJUSTING NEEDLE — Top end portion of needle must be straight and smooth. If grooved or ridged, a new needle should be installed.

PUMP INLET CHECK VALVE — Lubricate tip of new valve and insert in center hole in pump cavity. Pull lever from fuel bowl side until seated.

IDLE LIMITER CAP — It may be necessary to soak cap in boiling water a few minutes to aid in installation.



The primary fuel bowl gasket must be installed with the accelerator pump passage on the right side of the main jets. Fuel bowl screws must be tightened to fill each groove.



Some IBC models use primary metering body gaskets with additional studs in this area. Applications using this gasket have the top head or tip of the metering body removed.

DISASSEMBLY

Rest the carburetor on a vapor stand to avoid damage to the throttle plates during removal procedures. Use top-down view as a guide, and follow the numerical sequence in general to disassemble unit far enough to permit cleaning and inspection. Do not remove throttle plate or shaft. Idle limiter: turn the idle limiter cap to its lowest (bottom-most) position and remove cap. Observe and record the initial position of the needle set. Turn the idle needles clockwise until lightly seated, recording the number of turns required to seat the needles. This procedure is necessary to reseat the idle needles after reworking.

Use care not to damage idle adjusting needles when removing idle linkages.

CARBURETOR ADJUSTMENTS

FIG. 1 - Power Valve Installation



NOTE: Properly adjust valve adjustment (see Section 10). After installation, adjust with bleed to full throttle position valve. It must be full open.

Fig. 1 - Power Valve Installation

1. Adjust Fuel Valve



2. Adjust Fuel Valve to Full Open

General Adjustment Chart
Fig. 1 - Air Flow Setting

1. Adjust Fuel Valve



2. Adjust Fuel Valve to Full Open

General Adjustment Chart
Fig. 2 - Air Flow Setting

1. Adjust Fuel Valve

2. To Adjust Fuel Valve, turn screw clockwise until valve is fully open.



3. Adjust Fuel Valve to Full Open

NOTE: After adjustment, check engine operation.

Fig. 3 - Fuel Valve Adjustment

1. Adjust Fuel Valve



2. Adjust Fuel Valve to Full Open

General Adjustment Chart
Fig. 4 - Air Flow Setting

1. Adjust Fuel Valve



2. Adjust Fuel Valve to Full Open

Fig. 5 - Fuel Valve Adjustment

NOTE: After adjustment, check engine operation.



Fig. 6 - Fuel Valve Adjustment

1. Adjust Fuel Valve



2. Adjust Fuel Valve to Full Open

General Adjustment Chart
Fig. 7 - Air Flow Setting

1. Adjust Fuel Valve



2. Adjust Fuel Valve to Full Open

Fig. 8 - Fuel Valve Adjustment

CARBURETOR ADJUSTMENTS



Fig. 10 - Primary Needle Adjustment



Make the secondary needle adjustment on only the secondary jet(s) carburetor body, with needle and valve in closed position for adjustment turn.

Fig. 11 - Secondary Needle Valve Adjustment



Fig. 12 - Choke Wire Adjustment



Fig. 13 - Choke Cable Adjustment



Fig. 14 - Choke Wire Adjustment

NOTE: Always adjust only 1/8" or 1/16" of adjustment per turn of adjustment screw.



Fig. 15 - Choke Supplying (Spring Control) Adjustment



Fig. 16 - Choke Adjustment



Fig. 17 - Choke Adjustment

MODEL 4160 SPECIFICATIONS

Carburizer Model	Primary Dry Float Setting	Secondary Dry Float Setting	Pump Cam Position	Choke Quality Adjust.	Choke Index Setting
R-1132, R-1133, R-1134, R-1135, R-1136, R-1137	12/64"	3/8"	#1		15R
R-1138-1, R-1140-1			#1		25R
R-1142A	12/16"	1/2"	#1		15R
R-1542, -1, R-1543, -1, R-1544, R-1555, R-2112, R-2142-1, R-2143, R-2125, R-2550, R-2552, -1, R-2554, R-2113, R-2115, R-2448, R-2450, R-2451, R-2452, R-2453, -1, R-4205, R-4206, R-4473			#1		Index
R-1555-1, R-2555, R-2525, R-2115, R-2125, R-2140, R-2081, R-2315-2, R-2385, R-2387, R-2394, -1, R-2411, R-4224, R-4225, R-4226, R-4228, R-4227, R-4577, R-4584, R-4229-1			#1		
R-1571, R-2552, R-2815, R-4581, R-4155			#2		
R-2143-1	1/32"	3/8"	#1		Index
R-2573, R-2655	7/16"	5/16"	#1		
R-2148-1, R-3230, R-3267, R-3268, R-3275, R-3419, R-3420, R-3525, R-3526, R-3528, R-3544, -1, 2, R-4173, -1			#1	.175"	
R-3201, R-3202, R-3203, R-3205, R-4585			#1		15L
R-3206, R-3415	1/32"	5/8"	#1		25L
R-3267			#2	.175"	
R-3281			#1		15L
R-3575, -1, 2	15/64"	17/64"	#1	.255"	
R-3585			#1	.255"	
R-3587, -1, 2	15/64"	17/64"	#1	.255"	
R-3595	5/16"	11/32"	#1	.155"	
R-3594, R-3575, R-3525, R-3527, R-3528	5/16"	11/32"	#1	.175"	
R-3595	11/32"	11/32"	#1	.255"	
R-3595-1	5/16"	5/16"	#2		
R-3595, -1, 2, 3, R-4245	15/64"	17/64"	#1	.255"	
R-4265, -1, 2, 3, R-4235, -1	15/64"	17/64"	#1	.255"	
R-4261, R-4262			#1		35L
R-4217	15/64"	17/64"	#1	.175"	
R-4217-1, 2, 3, 4, R-4261, -1, 2, R-4235, -1, 2, R-4235, -1, 2	15/64"	17/64"	#1	.425"	
R-4215, R-4260	15/64"	17/64"	#1	.355"	
R-4215-1, 2, 3, 4, R-4260-1, 2, 3, R-4265, -1, R-4265, -1, 2, R-4235, -1, 2, R-4235, -1, 2, R-4235, -1, 2	15/64"	17/64"	#1	.255"	
R-4552			#2	.155"	15R
R-4552-1, R-7545, R-7546, R-8557, R-8523, R-8181			#2	.155"	Index
R-5545			#2	.255"	15R
R-5545, R-5551, R-7553			#1	.335"	25R
R-5550-1			#1	.335"	15R

Carburetor Number	Primary Dry Float Setting	Secondary Dry Float Setting	Pump Cam Position	Choke Quality Adjust.	Choke Index Setting
R-4800	7/64"	9/32"	#1	.185"	
R-4734	7/64"	9/32"	#1	.190"	
R-4760-3	15/64"	13/64"	#1	.234"	
R-4151, R-4252, R-4758			#2	.140"	Index
R-4180, -1, R-4253, R-4255, R-4257, R-4290, -1	7/64"	13/64"	#1	.185"	
R-4191, -1, R-4213, -1	7/64"	13/64"	#1	.190"	
R-4221, R-4485			#1	.175"	25L
R-4252, R-4254, R-4256	7/64"	13/64"	#1	.140"	
R-4267, -1, -2, R-4648			#2	.190"	15B
R-4270, -1, R-4638	7/64"	13/64"	#1	.234"	
R-4807			#2	.140"	25L
R-4830, R-4878, R-5413			#2	.231"	45B
R-4890, R-4736, R-4887, R-5053-1, R-5783, R-7890, R-8207			#1	.230"	15B
R-5810			#2	.190"	25L
R-5726, R-5846-1, R-5848-1, R-5849-1			#1	.185"	Index
R-5281, -1, R-4819-1, R-5829, R-4808, R-4978, R-4979, -1, R-5889, R-7809-1, R-7812, R-7478, R-7987			#1	.190"	Index
R-5830, R-5845, -1, R-4947, R-4948, -1, R-5849, -1			#1	.180"	Index
R-7809			#2	.199"	45B
R-7763			#1	.140"	
R-7890, R-7754			#2	.090"	Index
R-8084, R-8085, R-8008			#2	.180"	19L

Holley

CARBURETORS



The Model 4010 carburetor is a "square" flange replacement for Carter AFBMVS, Ford, and Holley 415Q/416D carburetors.

CFM	Secondaries	Part Number
600	Vacuum	0-84023
750	Vacuum	0-84018
600	Mechanical	0-84038
750	Mechanical	0-84039



The Model 4011 carburetor is a "spread" flange replacement for Carter Thermo-Quad and Rochester Quadra-Jet carburetors.

CFM	Secondaries	Part Number
650	Vacuum	0-84024
800	Vacuum	0-84022
650	Mechanical	0-84040
800	Mechanical	0-84041

**O.E.
REPLACEMENT**

These carburetors are consolidated replacements for the original equipment units found on Ford Marine engines. As such, they are a direct "bolt on".



Application	Part No.	Model	CFM
302" (5.0) 2 bbl. Ford Marine	0-80320-1	2300	300
302" (5.0) 4 bbl. Ford Marine	0-80364	4160	450
351" (5.8) 4 bbl. Ford Marine	0-80319-1	4160	600
460" (7.5) 4 bbl. Ford Marine	0-80318-1	4160	800