



General Instructions

- Take lots of pictures as you take your carburetor apart. This will give you a reference of where things go.
- Using a cookie sheet with folded up sides will help keep parts from falling on the floor.
- We suggest not removing the throttle shaft, valves, or choke shaft unless they are corroded, or very dirty. These parts can be easily damaged and are difficult to re-assemble.
- Instruction sheets that come with our carburetor kits are somewhat generic. It may not match your parts exactly.
- Do NOT use WD-40 around your carburetor. It reacts with ethanol.
- Using Silicon Spray Lubricant on the gaskets will help with sticking in case you need to take the carburetor apart again.
- Be careful after taking the top of the carburetor off. Turning the carburetor upside down may cause parts to fall out and you won't know where they were.
- Screws and jets that are frozen can often be removed after heating outside the screw or jet.
- Stuck check balls can be removed by heating the outside of where the check ball resides and tapping the carburetor on the work bench.
- Do not discard any parts until complete done. You may have to refer for size, or matching.

Cleaning:

- Clean with carburetor dis-assembled.
- Soak all parts except rubber & electrical in Simple Green for 2 hours. Aluminum parts will get discolored if left longer.
- Wash parts with hot water if available to remove all chemicals.
- Blow out each passage way taking special notice of the smaller ones. Test each passage that air goes through the entire passage.
- Blow out the idle mixture hole.

- Check any hole above the idle mixture hole (inside the bore). This is the idle discharge and often becomes plugged.
- A tooth brush can facilitate cleaning parts.
- Soda blasting, then washing again will make the carburetor look good any will clean any minor deposits.
- Any corrosion, or deposits that are hard to remove may indicate the passages are also corroded and the carburetor should be replaced.
- If your engine has been sitting for 6 months or more, the gas has probably turned, and the gas tank will need to be cleaned as well as the fuel lines. Flushing new gas through the tank will not be enough.

Assembly:

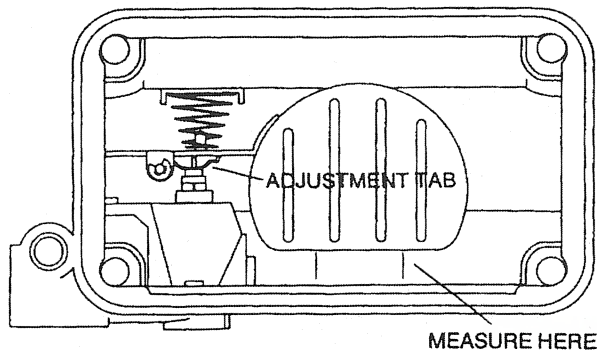
- Do NOT apply any gasket sealant on any of the gaskets. Gas will break sealant part and the particles will clog the small passages.
- Test your float.
 - Brass floats should be immersed into hot water. As the air inside expands any leak will be noticeable with air bubbles.
 - Plastic, or Nitrophyl floats should be weighed. The weight is in grams. Check our technical pages for any weight specification that we may have.
- Most gaskets will fit as expected, but you may have to trim some, especially under the venturis.
- Your kit may include multiple gaskets in order to get better coverage out of the kit. Use the one that fits the best. Look for any opening the gasket may leave allowing air into the carburetor. Some holes may be casting holes that don't lead to anything and do not have to be covered.
- Mounting gaskets for multiple bore carburetors do not have to have matching holes. Example a four-barrel gasket can be open in the middle instead of 4 holes as long as the carburetor has some kind of passage between bores. The passage is between primary, or secondary, not both.
- When adjusting the float be careful not to put any pressure on the needle. The viton tip is easily damaged.
- Most idle mixture screws can be cleaned using a soft wire wheel. Inspect for any scoring, which would indicate over tightening. Screw with scoring should be replaced.

Accelerator Pumps:

- On leather cups run your finger around the inside of the cup to break any manufacturer sealant.
- Apply 2 drops of oil to cups (leather, or rubber) before inserting into carburetor. Do not soak the cup in oil. The swelling of the cup needs to happen inside the carburetor. Allow the 2 drops of oil and the gas to do its job naturally.
- Twist the pump as you are inserting to help keep the cup from curling or folding over.
- Test your accelerator pump circuit before putting the top of the carburetor back on. Our technical pages have instructions on how to do this for most carburetor types.
- Pump wells are usually slight tapered, and the pump will not seal until it gets towards the bottom.

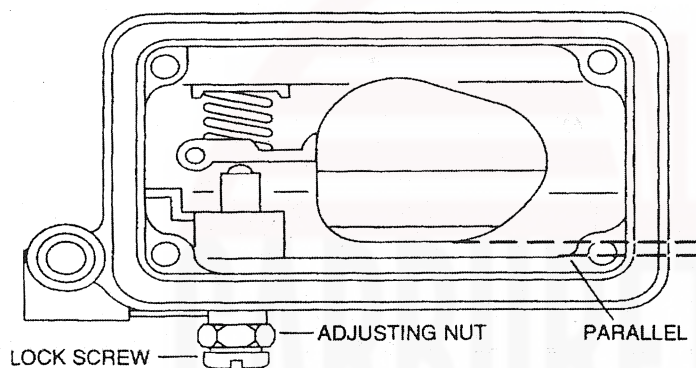
FIG. 1. DRY FLOAT LEVEL ADJUSTMENT

CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.



WITH FLOAT BOWL INVERTED, MEASURE DISTANCE BETWEEN SURFACE OF FLOAT BOWL AND FLOAT.

FIG. 2. DRY FLOAT LEVEL ADJUSTMENT



WITH FLOAT BOWL INVERTED, TURN NEEDLE SEAT ASSEMBLY UNTIL FLOAT IS PARALLEL WITH THE SURFACE DIRECTLY BELOW THE FLOAT. TIGHTEN LOCK SCREW.

FIG. 3. PUMP ADJUSTMENT

- ④ ADJUST CLEARANCE BETWEEN PUMP LEVER AND ADJUSTING NUT (CLEARANCE IS .015).
- ② HOLD THROTTLE IN WIDE OPEN POSITION.

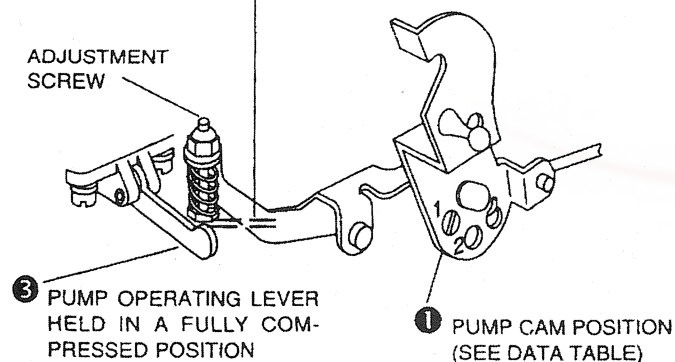


FIG. 4. CHOKE PLATE PULLDOWN ADJUSTMENT

- CLEARANCE 140"
- ① BLOCK PRIMARY THROTTLE ABOUT HALF OPEN.
- ② PUSH CHOKE PISTON DOWNWARD AGAINST ADJUSTMENT SCREW (USING WIRE WITH 1/8" BEND AT END).
- ③ HOLD CHOKE VALVE TOWARD CLOSED POSITION THEN MEASURE DISTANCE BETWEEN LOWER EDGE OF CHOKE VALVE AND AIR HORN WALL.
- ④ TO ADJUST (REMOVE PUTTY FROM SCREW HOLE), TURN SCREW CLOCKWISE TO DECREASE THE CHOKE OPENING AND COUNTER CLOCKWISE TO INCREASE THE CHOKE OPENING.

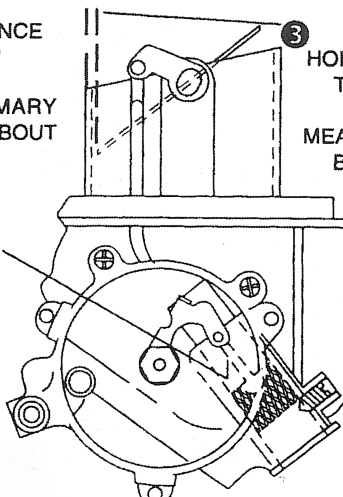


FIG. 5. UNLOADER ADJUSTMENT

- CLEARANCE .300"
- ② HOLD CHOKE VALVE TOWARD THE CLOSED POSITION THEN MEASURE DISTANCE BETWEEN LOWER EDGE OF CHOKE VALVE AND AIR HORN WALL.
- ③ TO ADJUST, BEND PAWL ON FAST IDLE SPEED LEVER.
- ① HOLD THROTTLE PLATES IN WIDE OPEN POSITION.

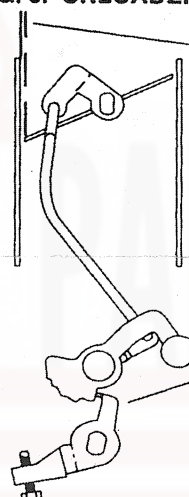
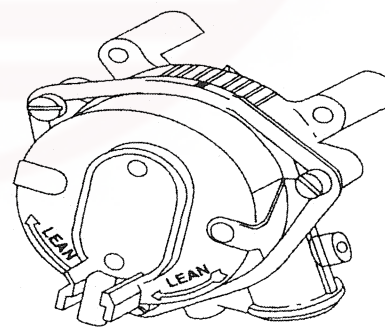


FIG. 6. AUTOMATIC CHOKE SETTING



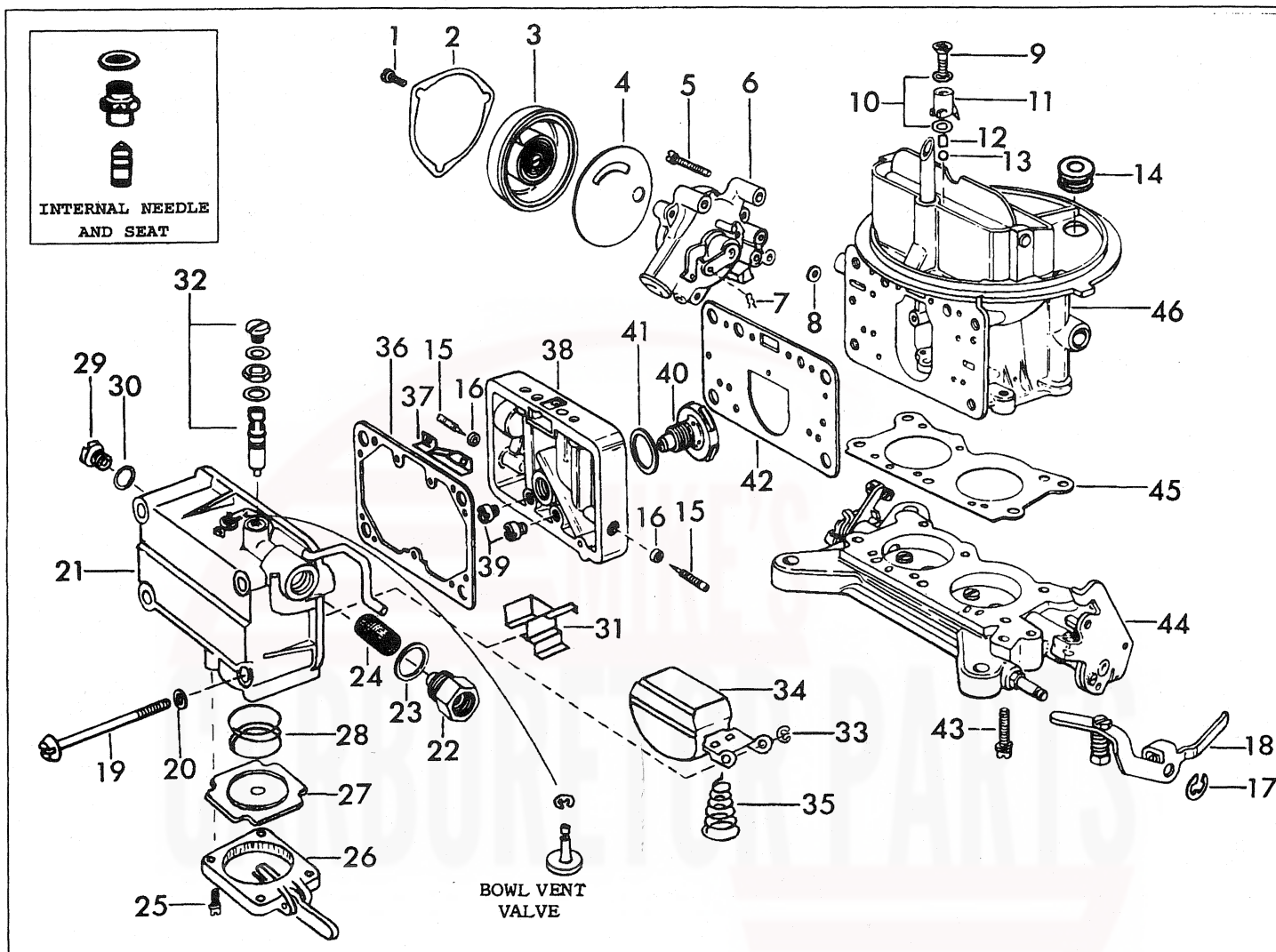
ALIGN MARK ON STAT COIL WITH PROPER INDEX MARK ON CHOKE HOUSING (SEE DATA TABLE FOR SETTING).

ADJUSTMENT DATA TABLE

Ford Tag No.	Holley List No.	Float Setting	Pump Cam Pos.	Choke Cap Setting	Ford Tag No.	Holley List No.	Float Setting	Pump Cam Pos.	Choke Cap Setting
D1FF-9510-LA	6150	1/2"	#2	Index	-----	50417-1	1/2"	#1	3 NL
D1JJ-9510-B	6317	1/2"	#2	Index	E8JL-9510-AA	50461	1/2"	#1	Index
D2JL-9510-B	6317-1	1/2"	#2	Index	-----	50461-1	1/2"	#1	Index
D3JL-9510-S	7036	1/2"	#1	3 NL	E9JL-9510-BA	50467	1/2"	#1	4 NL
E6JL-9510-GA	50417	1/2"	#1	3 NL	F1JL-9510-AA	50467-1	1/2"	#1	4 NL

GENERAL EXPLODED VIEW

THE GENERAL DESIGN AND PARTS SHOWN WILL VARY TO
INDIVIDUAL UNITS COVERED ON THIS INSTRUCTION SHEET.



NOMENCLATURE

REF.
NO.

1. SCREW-STAT COVER
2. CLAMP-STAT COVER
3. STAT COVER
4. GASKET-STAT COVER
5. SCREW & LOCKWASHER-CHOKE HOUSING ASSY.
6. CHOKE HOUSING ASSY.
7. RETAINER-CHOKE ROD LOWER
8. GASKET-CHOKE HOUSING
9. SCREW-PUMP DISCHARGE NOZZLE
10. GASKETS-PUMP DISCHARGE NOZZLE
11. NOZZLE-PUMP DISCHARGE
12. WEIGHT-PUMP CHECK BALL
13. BALL-PUMP DISCHARGE CHECK
14. GROMMET-COLD AIR CHOKE TUBE
15. NEEDLE-IDLE ADJUSTING
16. SEAL-IDLE NEEDLE
17. RETAINER-PUMP OPERATING LEVER
18. LEVER-PUMP OPERATING
19. SCREW-FUEL BOWL
20. GASKET-FUEL BOWL SCREW
21. FUEL BOWL ASSEMBLY
22. FITTING-FUEL INLET
23. GASKET-FUEL INLET FITTING
24. SCREEN-FUEL INLET

REF.
NO.

25. SCREW & LOCKWASHER-PUMP COVER
26. PUMP COVER ASSEMBLY
27. DIAPHRAGM-PUMP
28. SPRING-DIAPHRAGM RETURN
29. PLUG-FUEL LEVEL
30. GASKET-FUEL LEVEL PLUG
31. BAFFLE PLATE
32. NEEDLE, SEAT, O-RINGS & NUT ASSEMBLY
33. RETAINER-FLOAT
34. FLOAT ASSEMBLY
35. SPRING-FLOAT
36. GASKET-FUEL BOWL
37. BAFFLE-METERING BODY VENT
38. BODY-MAIN METERING
39. MAIN JETS
40. POWER VALVE
41. GASKET-POWER VALVE
42. GASKET-METERING BODY
43. SCREW & LOCKWASHER-THROTTLE BODY
44. THROTTLE BODY ASSEMBLY
45. GASKET-THROTTLE BODY
46. MAIN BODY ASSEMBLY