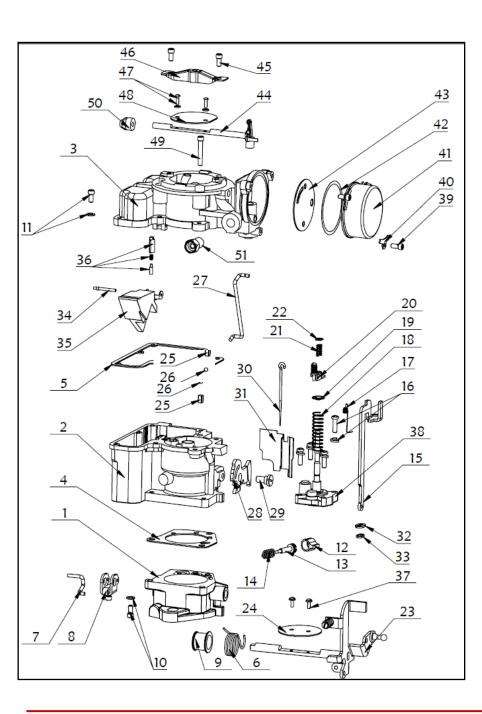


Carburetor Adjustment Instructions

❖ <u>Note</u>: Before proceeding with carburetor adjustment, verify that all ignition components are working properly, including checking engine timing. Also check for adequate fuel pressure, clean air filter element, and that there are no vacuum leaks.



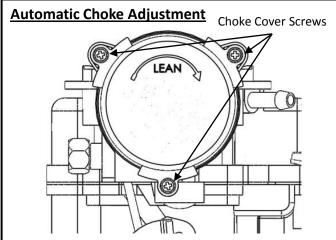
	PART	S L	IST
1.	Throttle Body Assembly	25.	Outlet Check Weight
2.	Main Body	26.	Outlet Check
	Assembly	20.	Ball
3.	Air Horn	27.	Choke Rod
	Assembly	28.	Fast Idle Cam
4.	Throttle Body	29.	Fast Idle Cam
	Gasket		Screw
5.	Air Horn	30.	Metering Rod
	Gasket	31.	Baffle Plate
6.	Throttle	32.	Splash Cover
	Return Spring	33.	Splash Gasket
7.	Pump	34.	Float Pin
	Connector Link	35.	Float
8.	Throttle Shaft	36.	Needle Seat
	Arm		Assembly
9.	Throttle	37.	Throttle Plate
	Return Spring		Screw (2)
	Bushing	38.	Accelerator
10.	Throttle Body		Pump
	Screw (3)		Assembly
11.	Short Air Horn	39.	Choke Cover
	Screw & Lock		Screw (3)
	Washer (4)	40.	Choke Cover
12.	Limiter Cap		Retainer (3)
13.	Idle Mix Screw	41.	Choke Cover
14.	Idle Mix Spring		Spring
15.	Pump Lifter		Assembly
	Link	42.	Choke Cover
16.	Pump Housing		Gasket
	Screw & Lock	43.	Choke Baffle
	Washer (4)		Plate
17.	Metering Rod	44.	Choke Shaft
	Spring		Assembly
18.	Lower Pump	45.	Air Cleaner
	Spring		Bracket Screv
19.	Lower Pump		(2)
	Spring	46.	Air Cleaner
	Retainer		Bracket
20.	Metering Arm	47.	Choke Plate
	Assembly		Screw & Lock
21.	Upper Pump		Washer (2)
	Spring	48.	Choke Plate
22.	Upper Pump	49.	Long Air Horn
	Spring		Screw & Lock
	Retainer		Washer (3)
23.	Throttle Shaft	50.	Choke Lever
			OI I =

Assembly

24. Throttle Plate

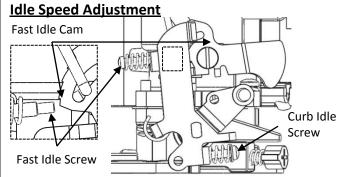
51. Choke Fitting

REQUIRED ADJUSTMENTS AFTER CARBURETOR INSTALLALLATION



- Check that engine is starting cold. Adjustment 1) applies for cold engine only.
- 2) Loosen the Choke Cover Screws and adjust the Choke Cover to obtain the desired cold start mixture.

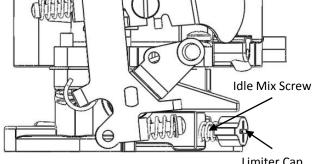
Note: If engine is flooding during startup, hold the choke open manually to start the engine and then adjust the choke.



- 1) Run the engine a minimum of 20 min at 1500 RPM to reach operating temperature.
- 2) Verify that the choke is in the full-open position and the Fast Idle Screw is not touching the Fast Idle Cam.
- 3) Turn the headlights on.
- 4) Adjust the Curb Idle Screw to obtain the recommended engine idle speed of 800 RPM.

Note: Idle Speed and Idle Mixture adjustments can be done at the same time to prevent engine stall due to a too lean or too rich air/fuel mixture at idle.

Idle Mixture Adjustment

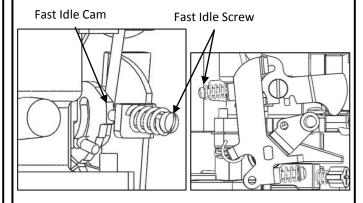


Limiter Cap

- Verify that Idle speed is set to 800 RPM and engine 1) is warmed up to operating temperature.
- 2) Remove limiter cap and adjust the Idle Mix Screw until engine idle is smoothest (turn in for lean or out for rich). Reinstall limiter cap when done.

Alternative to Step 2: Attach a vacuum gauge to read manifold vacuum. Remove the limiter cap and adjust the Idle Mix Screw until the gauge reads a steady vacuum between 17-21 in-Hg. Reinstall limiter cap when done.

Fast Idle Speed Adjustment



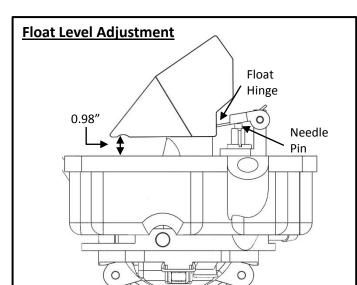
- 1) Verify that both Idle speed and mixture have been properly adjusted and engine is warmed up to operating temperature.
- 2) Place the Fast Idle Screw on the top step of the Fast Idle Cam as shown above.
- 3) Adjust the Fast Idle Screw to obtain the required fast idle RPM.



ADVANCED SETTINGS

To be performed by experienced users only. Use only if carburetor is malfunctioning.

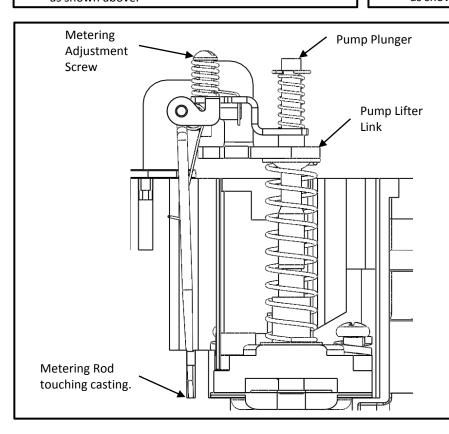




- Turn the Air Horn Assembly upside down without gasket and allow the Float Hinge to touch the Needle Pin without compressing the spring. DO NOT exert pressure.
- 2) Bend the Float Hinge so the distance is equal to 0.98" as shown above.

Float Drop Adjustment 1.50"

- Hold the Air Horn Assembly horizontally in the upright position as shown above, without gasket and allow the float to hang free.
- 2) Bend the Float Tab so the distance is equal to 1.50" as shown above.



Metering Rod Assembly Adjustment Process

- Back out Curb Idle Screw until Throttle Plate is fully closed.
- Press down on the Pump Plunger all the way and hold.
- Turn Metering Adjustment Screw counterclockwise until the Metering Rod just bottoms the casting (don't move anymore)
- 4) Turn the Metering Adjustment Screw clockwise until it contacts Pump Lifter Link, then in 1 additional turn.