

## TM113019 - Z425, Z435, Z445, and Z465 EZtrak Mower (S.N. 100001-) Remove and Install Upper Blower Housing (ELS)

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### Remove and Install Upper Blower Housing (ELS)



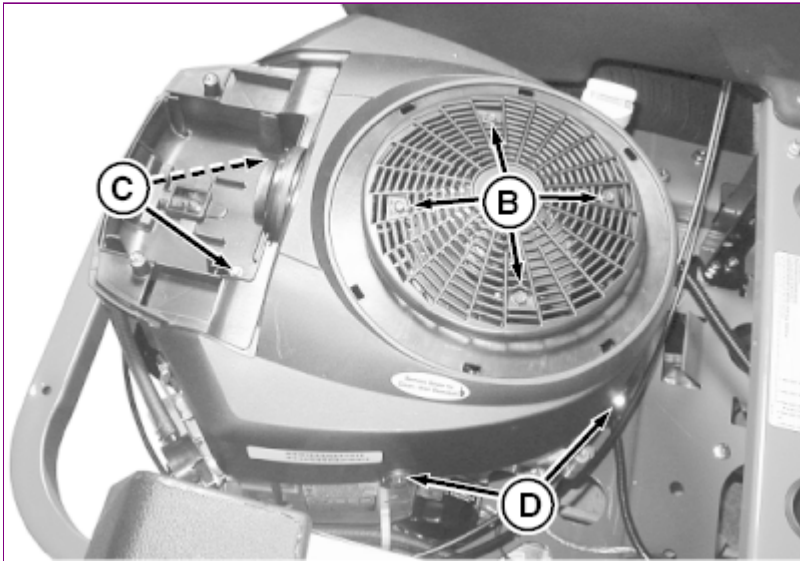
MXT003955-UN: Screen Tabs

#### LEGEND:

A - Screen Tabs

#### **Remove:**

1. Press inward on the stationary screen tabs (A) and remove the stationary screen.
  2. Remove air cleaner cover and air cleaner elements.
-



3. MXT003956-UN: Engine guards removed for clarity.

**LEGEND:**

- B - Screw
- C - Screw
- D - Screw

Remove 4 screws (B) securing the rotating screen to the fan.

4. Remove 2 screws (C) holding the upper blower housing to the air intake.
5. Loosen the 6 screws (D) (3 on each side) holding the upper blower housing to the engine block.
6. Remove upper blower housing.

**Install:**

1. **IMPORTANT:**

**Upper blower housing must be assembled so that the slot in the blower housing aligns with the ridge in the air intake. Failure to assemble correctly will prevent the air filter from sealing and cause engine damage.**

Install in reverse order of removal.

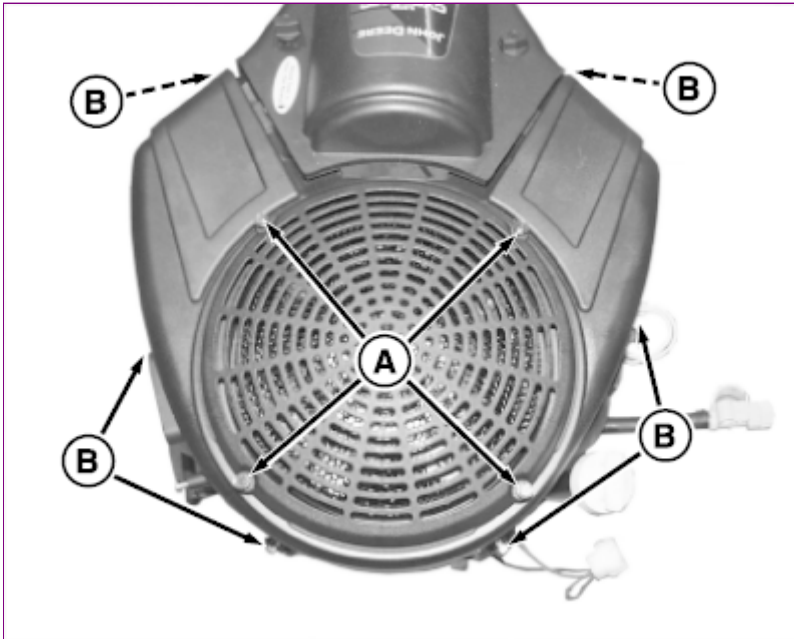
2. Tighten screws to specification.

Item	Measurement	Specification
Blower Housing Screws	Torque	9 N·m (80 lb.-in.)

## TM113019 - Z425, Z435, Z445, and Z465 EZtrak Mower (S.N. 100001-) Remove and Install Upper Blower Housing (Cyclonic)

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### Remove and Install Upper Blower Housing (Cyclonic)



MXT005056-UN: Stationary Screen

#### LEGEND:

- A - Screws
- B - Screws

#### **Remove:**

1. Remove four screws (A) holding the stationary screen and remove screen.
  2. Loosen the six screws (B) (three on each side) holding the upper blower housing to the engine block.
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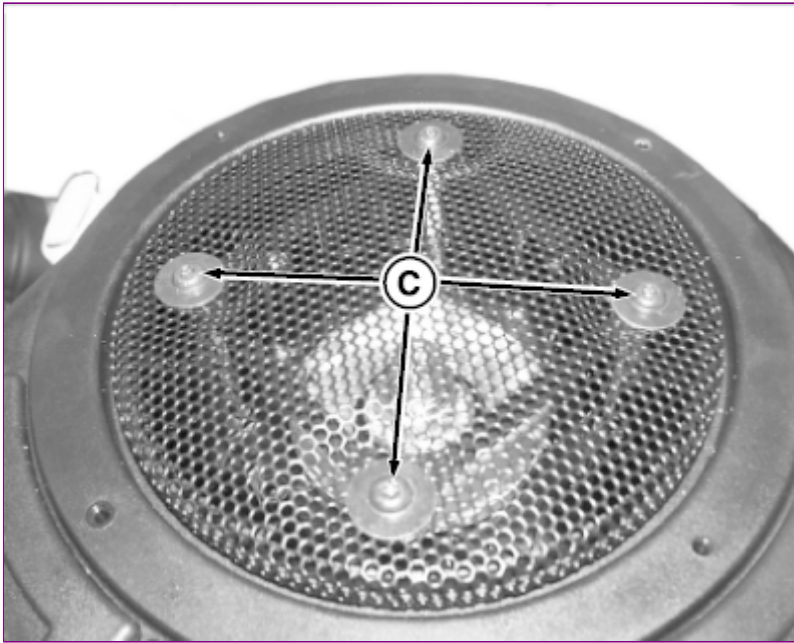
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3. MXT005057-UN: Rotating Screen

LEGEND:

C - Screws

Remove four torx head screws (C) and remove the rotating screen.

4. Remove air cleaner cover and air cleaner element.
5. Remove oil cooler from blower housing.
6. Remove fuel pump from blower housing.
7. Remove two screws holding the upper blower housing to the air intake.
8. Remove upper blower housing.

**Install:**

**IMPORTANT:**

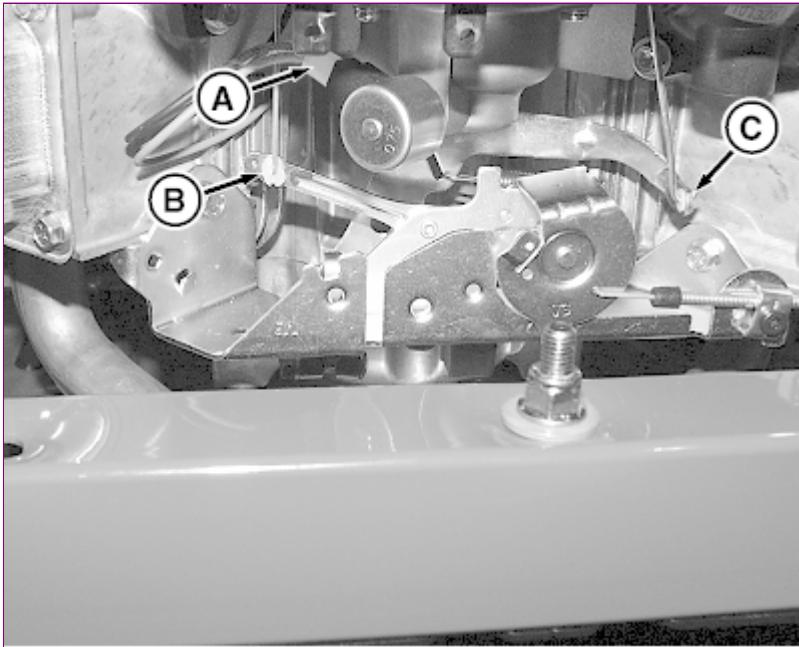
**Avoid Damage! Upper blower housing must be assembled so that the slot in the blower housing aligns with the ridge in the air intake. Failure to assemble correctly will prevent the air filter from sealing and cause engine damage.**

1. Install in reverse order of removal.
2. Tighten screws to specification.

Item	Measurement	Specification
Blower Housing Screws	Torque	9 N·m (80 lb.-in.)

# TM113019 - Z425, Z435, Z445, and Z465 EZtrak Mower (S.N. 100001-) Remove Two Barrel Carburetor

## Remove Two Barrel Carburetor



MXT003957-UN: Fuel Shutoff Solenoid

### LEGEND:

- A - Fuel Shutoff Solenoid
- B - Choke Link
- C - Throttle Link

1. **NOTE:**

*Cyclonic carburetor shown. ELS carburetor similar.*

Remove upper blower housing.

2. Disconnect fuel shutoff solenoid (A) and choke link (B). Throttle link (C) can be unhooked when carburetor and intake manifold are being removed.

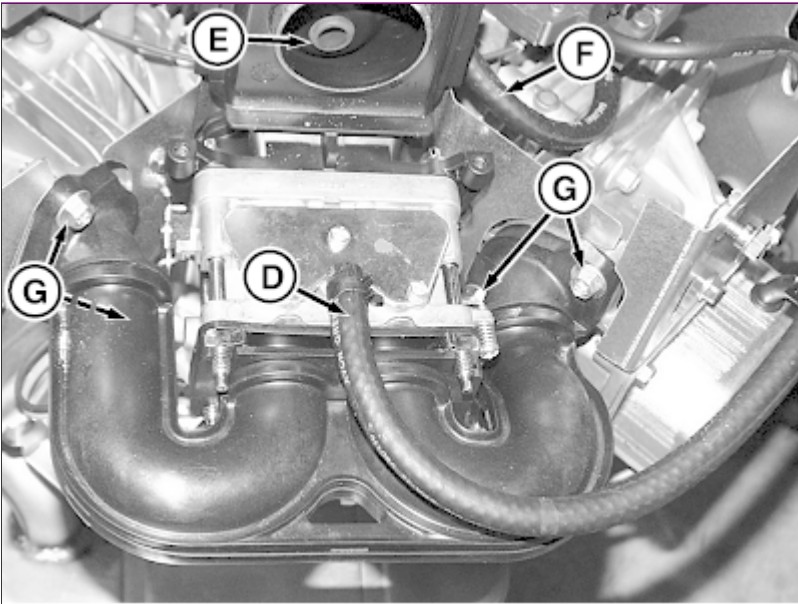
3. \_\_\_\_\_
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***Fuel vapors are explosive and flammable:***

- ***Do not smoke while handling fuel.***
- ***Keep fuel away from flames or sparks.***
- ***Shut off engine before servicing.***
- ***Cool engine before servicing.***

- *Work in a well-ventilated area.*
  - *Clean up spilled fuel immediately.*
- 



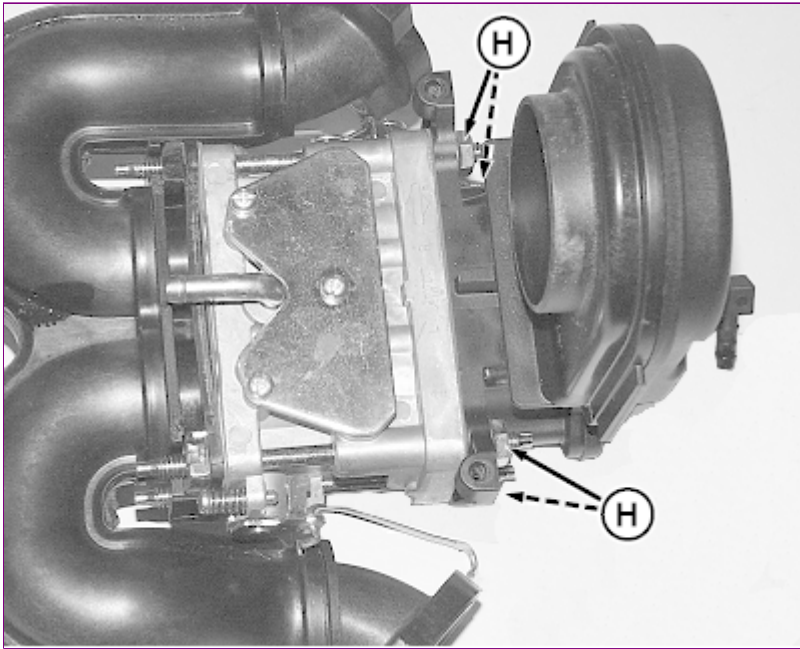
MXT003958-UN: Fuel Inlet Line

LEGEND:

- D - Fuel Inlet Line
- E - Breather Hose
- F - Vapor Hose
- G - Screw

Disconnect and plug the fuel inlet line (D).

4. Disconnect breather hose (E) and fuel vapor hose (F) from carburetor inlet elbow.
  5. Remove 4 cap screws (G) from intake manifold flanges.
  6. Disconnect the throttle link from the governor arm while carefully pulling the carburetor and manifold assembly away from the engine.
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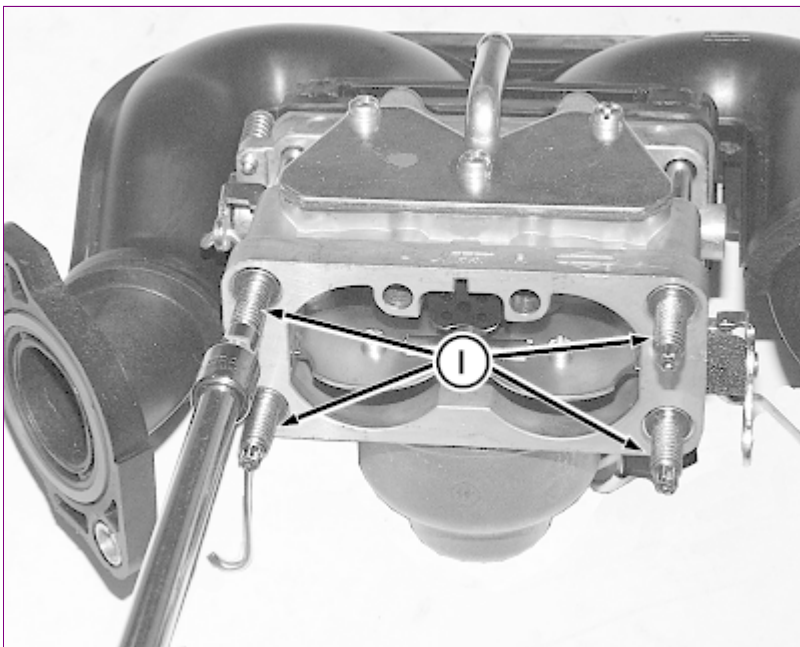
7. MXT003959-UN: Air Cleaner Elbow

LEGEND:

H - Nut

Remove 4 nuts (H) holding the air cleaner elbow to the carburetor.

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8. MXT003960-UN: Carburetor Studs

LEGEND:

I - Stud

Remove four special studs (I) holding the carburetor and gaskets to the intake manifold.

# TM113019 - Z425, Z435, Z445, and Z465 EZtrak Mower (S.N. 100001-) Install Two Barrel Carburetor

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## Install Two Barrel Carburetor

1. **NOTE:**

*Cyclonic carburetor shown. ELS carburetor similar.*

Connect choke link while assembling spacer, gaskets and carburetor to intake manifold.

2. Secure carburetor to intake using mounting studs. Tighten to specification.

Item	Measurement	Specification
Carburetor to Intake Manifold Studs	Torque	7 N·m (65 lb.-in.)

3. Install air cleaner elbow. Tighten 4 nuts to specification.

Item	Measurement	Specification
Air Cleaner Elbow to Carburetor	Torque	7 N·m (65 lb.-in.)

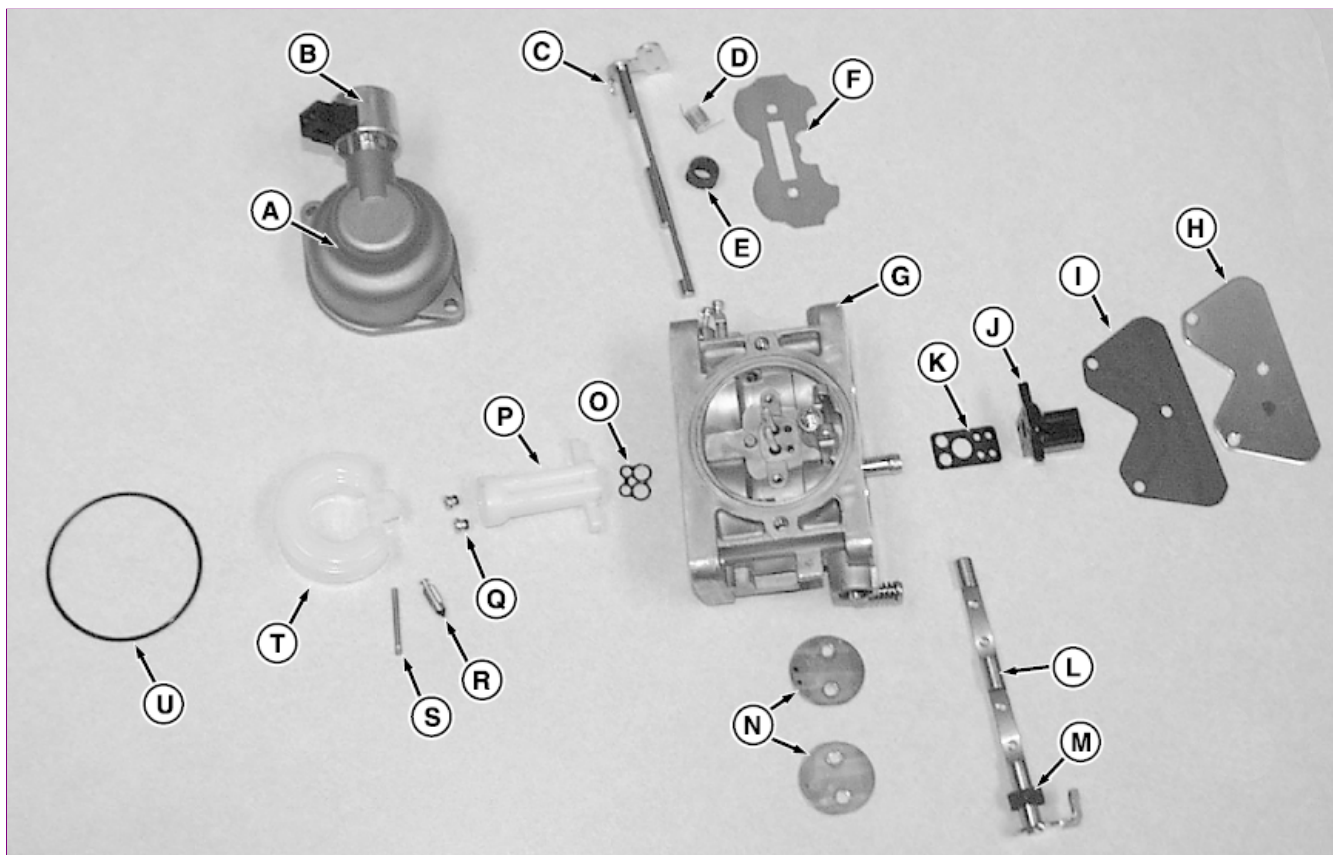
4. Connect throttle link to throttle lever.
5. Install new gaskets on intake manifold. Install manifold and carburetor assembly to cylinder block with four cap screws. Tighten to specification.

Item	Measurement	Specification
Intake Manifold Cap Screws	Torque	9 N·m (80 lb.-in.)

6. Connect and adjust throttle and choke cable. (See [Adjust Throttle and Choke Cable, V-Twin](#) .)
7. Connect fuel line.
8. Install blower housing.

**TM113019 - Z425, Z435, Z445, and Z465 EZtrak Mower (S.N. 100001-)  
Repair Two Barrel Carburetor**

**Repair Two Barrel Carburetor**



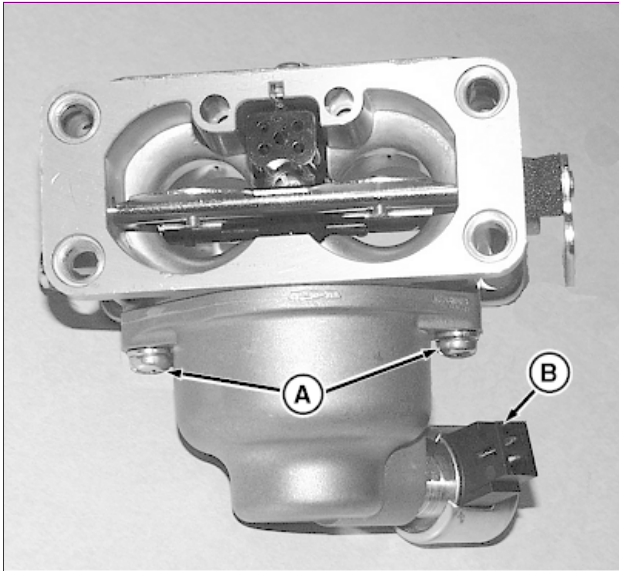
MXT004002-UN: Cyclonic Carburetor Shown. ELS Similar

**LEGEND:**

- A - Fuel Bowl
- B - Fuel Shutoff Solenoid
- C - Choke Shaft
- D - Choke Return Spring
- E - Foam Seal
- F - Choke Valve
- G - Carburetor Body
- H - Top Plate
- I - Gasket
- J - Discharge Nozzle
- K - Gasket
- L - Throttle Shaft
- M - Foam Seal
- N - Throttle Valve Plates
- O - Emulsion Tube Gasket
- P - Emulsion Tube Body
- Q - Main Jets
- R - Inlet Valve
- S - Float Pin
- T - Float
- U - Float Bowl O-Ring

**Components**

**Disassemble**



MXT003961-UN: Fuel Bowl

**LEGEND:**

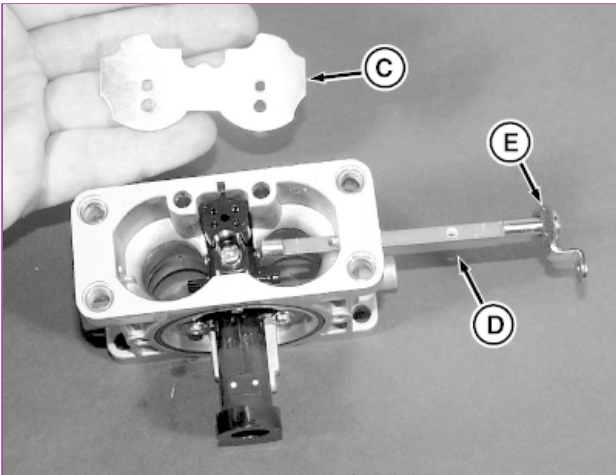
- A - Screw
- B - Fuel Shutoff Solenoid

1. **NOTE:**

*Cyclonic carburetor shown. ELS similar.*

Remove 2 screws (A) holding the fuel bowl to the carburetor body. Remove fuel bowl and drain the remaining gasoline into a suitable container.

2. Remove fuel shutoff solenoid (B).
3. Mark choke valve so it can be installed in its original position.



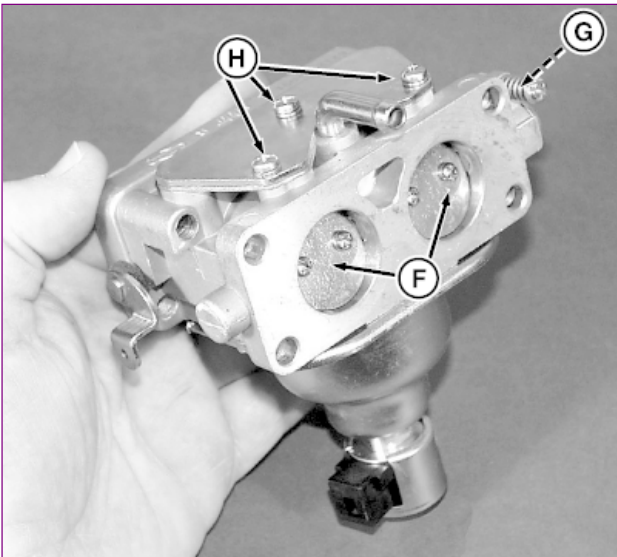
4. MXT003962-UN: Choke Valve/Shaft

**LEGEND:**

- C - Choke Valve
- D - Choke Shaft
- E - Foam Seal

Remove 2 screws securing the choke valve (C) to the choke shaft (D). Pull choke shaft and foam seal (E) out of carburetor body.

5. Mark the throttle valves so they can be installed in their original position.



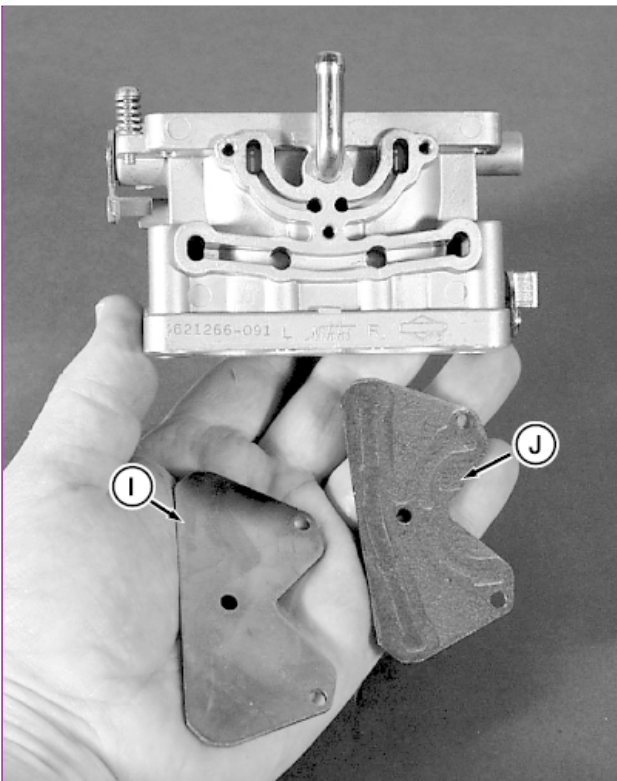
6. MXT003963-UN: Throttle Valve

LEGEND:

- F - Throttle Valves
- G - Throttle Shaft
- H - Screw

Remove 4 screws securing the throttle valves (F) to the throttle shaft (G). Pull throttle shaft and foam seal out of carburetor body.

7. Remove 3 screws (H) securing the cover plate and gasket to the carburetor body.
- 



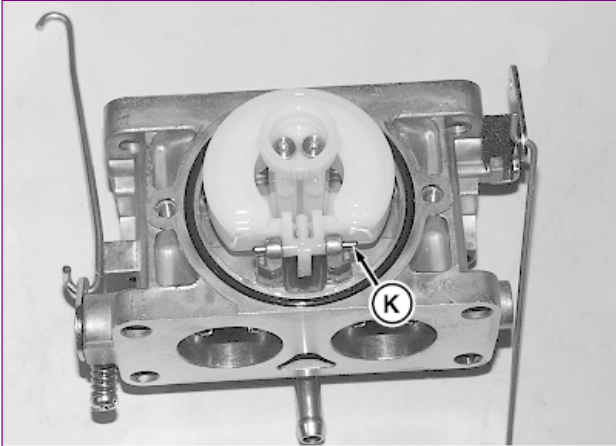
8. MXT003964-UN: Cover Plate and Gasket

LEGEND:

- I - Cover Plate
- J - Gasket

Remove the cover plate (I) and gasket (J).

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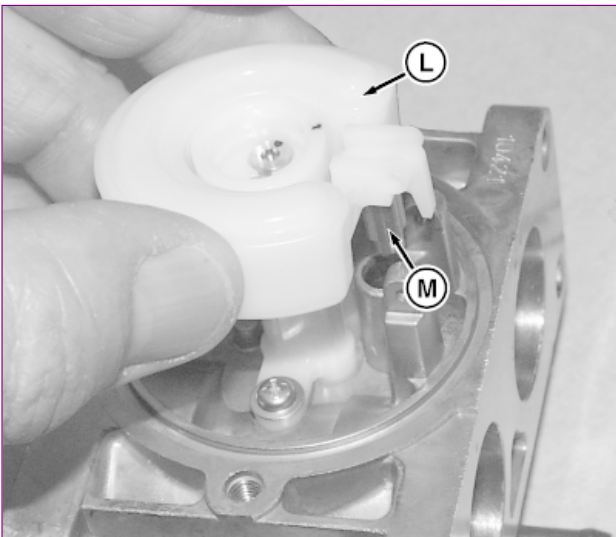
9. MXT003965-UN: Float Hinge Pin

LEGEND:

K - Float Hinge Pin

With a small punch, push out float hinge pin (K).

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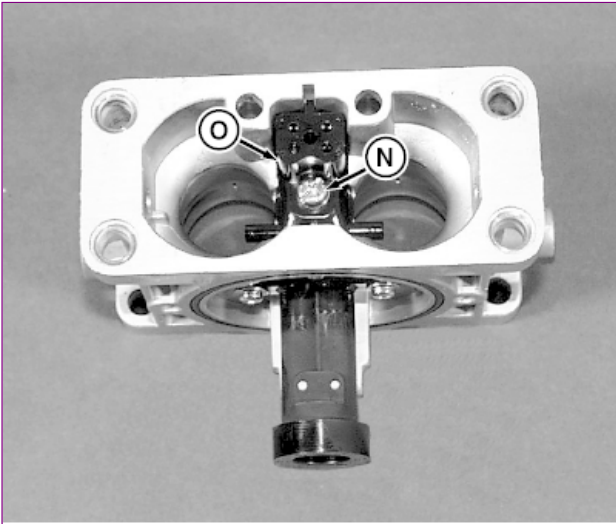
10. MXT003966-UN: Float and Fuel Inlet Valve

LEGEND:

L - Float  
M - Fuel Inlet Valve

Remove float (L) and fuel inlet valve (M) as an assembly.

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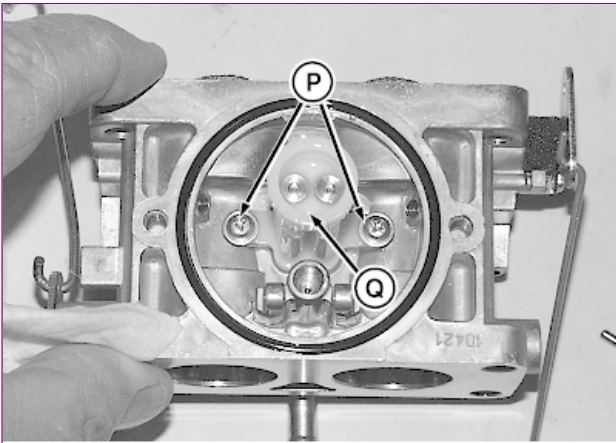
11. MXT003967-UN: Discharge Nozzle

LEGEND:

N - Screw  
O - Discharge Nozzle

Remove the screw (N) holding the discharge nozzle (O) into the carburetor body.

12. Remove the discharge nozzle and the rubber gasket.
- 



13. MXT003968-UN: Emulsion Tube Body

LEGEND:

P - Screw  
Q - Emulsion Tube Body Marks

Remove 2 screws (P) and emulsion tube body (Q).

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**Suggest:**

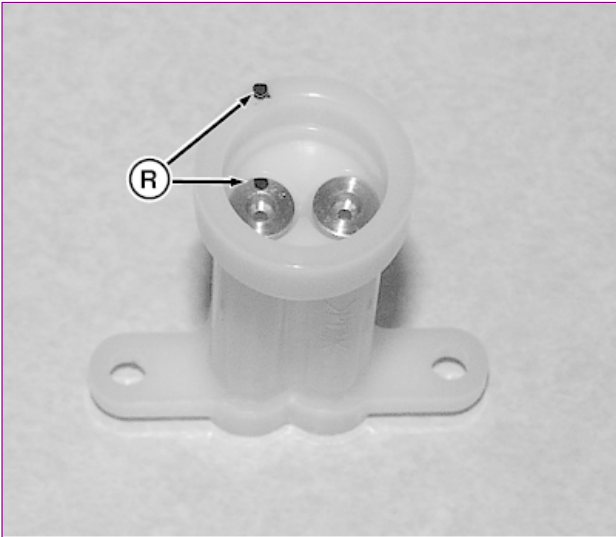
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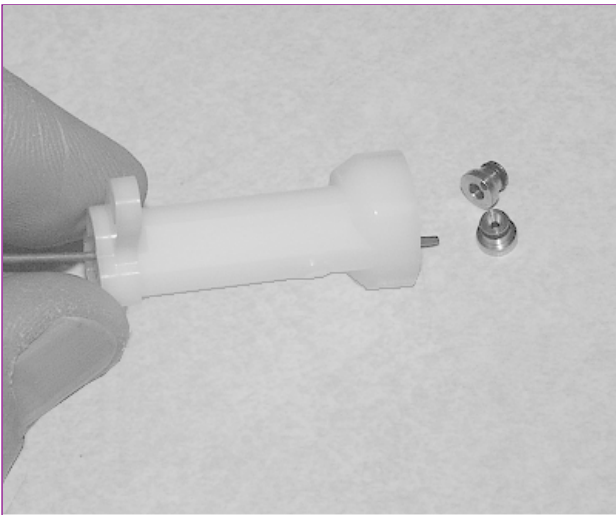
14. MXT003969-UN: Emulsion Tube Body

**LEGEND:**

R - Emulsion Tube Body

Mark one jet and the emulsion tube body (R) so it may be installed in the same location during assembly.

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15. MXT003970-UN: Main Jets

Use a small punch or similar tool and push main jets out of emulsion tube body.

16. 

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**CAUTION:**

***Be sure to wear eye protection when cleaning parts with compressed air.***

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Clean metal parts with carburetor cleaner and blow out passages with compressed air.

17. Inspect moving parts for wear, nicks, and burrs. Inspect float for leaks or damage. Inspect mating surfaces for nicks, burrs, foreign material, and cracks. Replace parts that are worn or damaged.
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