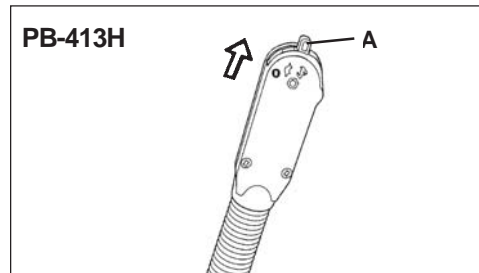


## STARTING COLD ENGINE

- Recoil starter: Use short pulls - only 1/2-2/3 of rope length for starting. Do not allow the rope to snap back in. Always hold the unit firmly.
- (PB-413H): Rotate spring loaded throttle arm downward to a comfortable operating position.

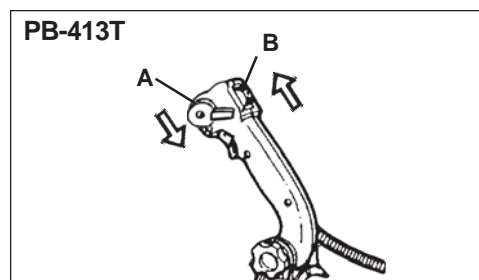
### **PB-413H**

1. *Throttle Lever*  
Move throttle lever (A) to Wide Open Throttle position.



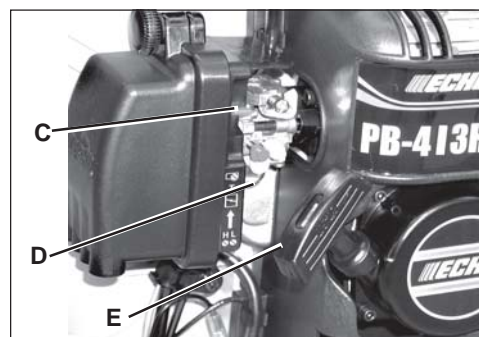
### **PB-413T**

1. *Throttle Lever/Stop Switch*  
Move throttle lever (A) rearward to Wide Open Throttle position.  
Slide stop switch (B) forward to run position.



### **PB-413H, PB-413T**

2. *Choke*  
Move choke (C) up to Cold Start position ( | | ).
3. *Purge Bulb*  
Pump purge bulb (D) until fuel is visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.
4. *Recoil Starter*  
Pull recoil starter handle (E) until engine fires, or a maximum of 5 pulls.
5. *Choke*  
After engine fires (or 5 pulls), move choke lever to Run ( | | | ) position. Keep throttle lever in wide open throttle position, and pull recoil starter handle until engine starts and runs.



#### **NOTE**

If engine does not start with choke in "Run" position after 5 pulls, move choke to "Cold Start" ( | | ) position, and repeat steps 4 & 5.

6. *Throttle Lever*  
Move throttle lever to IDLE position, and allow engine to warm up before use.
7. *Throttle Lever*  
After engine warm-up, move throttle lever gradually to increase engine RPM to desired operating speed.

## STARTING WARM ENGINE

The starting procedure is the same as Cold Start except DO NOT close the choke.

### **PB-413H**

1. *Throttle Lever*  
Move throttle lever (A) to IDLE DETENT position.

### **PB-413T**

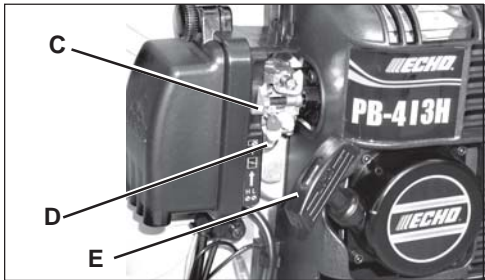
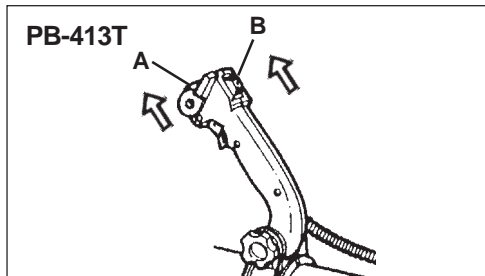
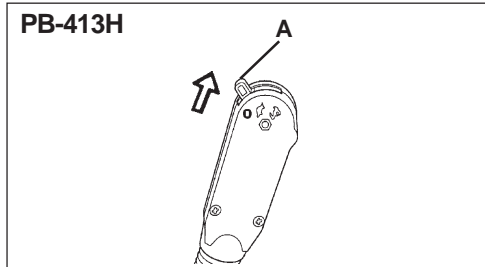
1. *Throttle Lever/Stop Switch*  
Move throttle lever (A) forward to idle position. Slide stop switch (B) forward to run position.

### **PB-413H, PB-413T**

2. *Purge Bulb*  
Pump purge bulb (D) until fuel is visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.
3. *Recoil Starter*  
Pull recoil starter handle (E) and engine should start. Do not use choke (C).

#### **NOTE**

If engine does not start after 5 pulls, use cold start procedures.



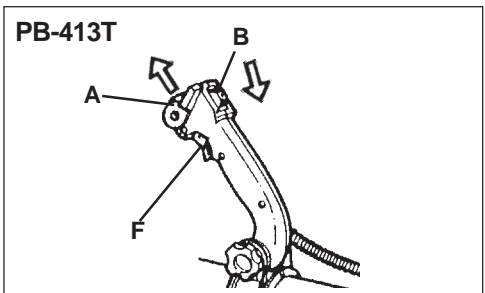
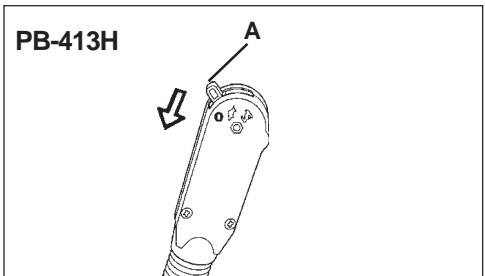
## STOPPING ENGINE

### **PB-413H**

1. *Throttle Lever*  
Move throttle lever (A) to idle detent position and allow engine to return to idle before shutting off engine.
2. *Throttle Lever*  
Move throttle lever (A) to "O" (Stop) position.

### **PB-413T**

1. *Throttle Lever*  
Release throttle trigger (F). Move throttle lever (A) forward to idle position and allow engine to return to idle before shutting off engine.
2. *Stop Switch*  
Slide stop switch (B) to Stop position.



## **WARNING** **DANGER**

If engine does not stop when stop switch is moved to STOP position, close choke - COLD START position - to stall engine. Have your ECHO dealer repair stop switch before using blower again.