

Section 22: Starting Procedure

STARTING THE PERKINS ENGINE

IMPORTANT: Do not use ether or other starting fluids.

- Step 1: Disengage cutter disc.
 - Step 2: Place *Upper Feed Control Bar* in NEUTRAL.
 - Step 3: Pull *Throttle* 1/4 of the way open.
 - Step 4: When engine is cold (below 35°F/1.7°C), turn key counterclockwise to turn on glow plugs and hold until preheat light shows a dull red glow (approximately 20–30 seconds).
- NOTE:** Do not continue heating glow plugs once the indicator shows a dull red glow, damage to glow plug will result. Using glow plugs is not necessary if engine was run earlier and is still warm.
- Step 5: Turn key fully clockwise to start engine. Release key once engine starts. If engine fails to start within 15 seconds, heat glow plugs again until preheat light shows a dull red glow.
- IMPORTANT:** Never run starter motor for more than 20 seconds at a time. Allow starter motor to cool 1 minute between attempts.
- Step 6: Move throttle to idle and allow engine to warm up for 4–5 minutes before engaging the cutter disc.

IMPORTANT: Never run starter motor for more than 10 seconds at a time. Allow starter motor to cool 1 minute between attempts.

- Step 6: Move *Throttle* to idle and allow engine to warm up before adjusting choke and engaging cutter disc.

COLD WEATHER STARTING Engine

Before operating in cold weather (below 32°F (0°C)), refer to the Engine Operation Manual for recommended engine oil, fuel, and starting procedures.

Hydraulic Fluid

In cold weather, take more time to warm up the hydraulic fluid. After engine is warm, let it run for a minimum of five more minutes at low RPM before operating any controls.

NOTE: Slow engine down if hydraulic pump squeals due to insufficient oil.

Section 23: Shutdown Procedure

STOPPING THE MACHINE

IMPORTANT: For your safety and the safety of others, use the shutdown procedure before working on the machine for any reason, including servicing, cleaning, unlogging, inspecting, or transporting the chipper.

A variation of this procedure may be used if so instructed within this manual, or if an emergency requires it.

- Step 1: Return *Upper Feed Control Bar* to NEUTRAL.
- Step 2: Reduce engine speed to idle.

IMPORTANT: Whenever practical and consistent with good safety practice, run engine without load for a few minutes before shutting it off. This allows engine temperatures to decrease and equalize, which will increase engine life.

- Step 3: Disengage belt tightener.
- Step 4: Shut off engine and remove key.
- Step 5: Wait for cutter disc and belt to stop.

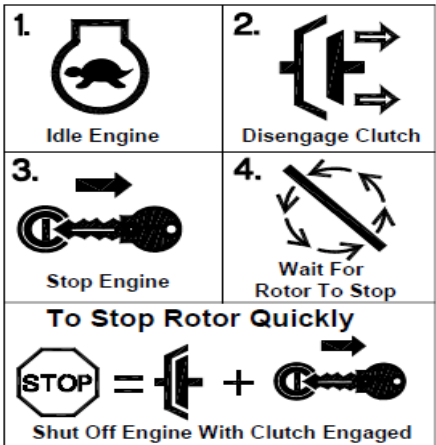
NOTE: Cutter disc rotation can be checked by looking at the end of the shaft on the left rear side of cutter disc housing.

IMPORTANT: Cutter disc will continue to turn for a short time after engine has stopped.

- Step 6: Close and latch feed table.

Quick Stop Procedure

- Step 1: Turn ignition to OFF position with belt tightener engaged and remove key.
- Step 2: Wait for cutter disc and belt to stop.
- Step 3: Disengage cutter disc.



FEED ROLLER CONTROLS - BC600XL

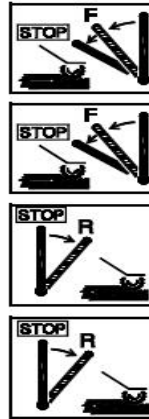
(1) Upper Feed Control Bar

Rear position feed roller STOP

Second position from rear feed roller FORWARD

Third position from rear feed roller STOP

Forward position feed roller REVERSE



NOTE: *Upper Feed Control Bar* is spring-returned from REVERSE to center STOP position and must be held to operate feed rollers in REVERSE.

NOTE: Feed rollers will not move unless:

- engine speed is at high RPM (if equipped with AutoFeed II control system)
- *Lower Feed Stop Bar* is reset
- *Upper Feed Control Bar* is in forward or reverse feeding position.

(2) Lower Feed Stop Bar

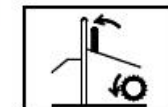
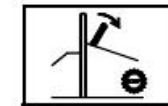
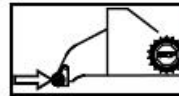
Bar pressed feed roller stop

To reset: Pull on *Reset Lever* (3).

(3) Reset Lever (located on both sides of infeed chute)

Press forward feed roller stopped

Pull back feed roller operational



(4) Lower Feed Stop Bar Sensitivity Lever

Push down Normal sensitivity

NOTE: Feed roller stops when stop bar is pushed a shorter distance.

Pull up Reduced sensitivity

NOTE: Feed roller stops when stop bar is pushed a farther distance.

NOTE: Each time the feed table is raised to transport position, the lower feed stop bar system defaults to Normal sensitivity.

(5) Feed Roller Speed Control

Clockwiseincrease feed roller speed

Counterclockwise decrease feed roller speed

