

Single man tea pruning machine 3CX-750A User's Manual

Product executive standard:
GB/T5674-2007 "Tea Tree Pruning Machine"



Quanzhou Deli Agroforestrial Machine Co.,Ltd

1. Introduction

Sincerely thank you for purchasing and using our products. Be sure to read this manual and the gasoline engine manual before use to avoid accidents and injuries. After reading, please keep this manual for use at any time.

2. Safety instructions

2.1 When people who borrow or do not understand mechanical operations need to use this machine, please accept safe operation instructions in advance before using this machine.

2.2 The following persons cannot use this machine

- (1) People who are drunk.
- (2) Mental patients.
- (3) Children and pregnant women.
- (4) People who cannot operate normally due to fatigue, illness, drug allergy and other reasons.

2.3 Clothing during operation

- (1) Please wear long-sleeved clothes, but avoid clothes with wide cuffs and trousers.
- (2) Wear a cap with a brim and protective glasses.
- (3) Wear gloves during inspection and maintenance.
- (4) Please wear non-slip shoes.

2.4 Fireworks are strictly prohibited

- (1) Please pay attention to fire safety when placing the fuel, and it is strictly prohibited to place it in a place prone to fire.
- (2) Smoking is strictly prohibited when the gasoline engine is started or when refueling.
- (3) When refueling, the gasoline engine should be stopped. In addition, if the machine overturns or the fuel splashes on the machine body when refueling, please wipe the fuel on the machine body with a dry cloth.

3. Scope of application

Suitable for tea tree pruning, gardening, fruit and vegetable use.

4. Parameter

Model	3CX-750A		
Structure Type	Single man, backpack		
Dimensions Of Power Part (mm)	1090×285×230	Dimensions Of Hand-held Part(mm)	1050×230×210
Power (gasoline engine)	4 Stroke	No-Load Noise dB(A)	≤95
Engine Power (Kw) (gasoline engine)	1.5	Tearing Rate (%)	≤2.0
Engine Rotating Speed (r/min)	7000	Missing Pruning Rate (%)	≤1.0
Engine Displacement (cc) (gasoline engine)	38.5	Efficiency (m ² /h)	≥200
Cutting Width (mm)	750	Fuel consumption (kw·h)	≤610
Weight (kg)	11.4	Max Cutting Diameter (mm)	20

5. Precautions Before Operation

5.1 Check before the operation. If necessary adjustments or abnormalities, please entrust the store for repairs.

5.2 The place to be checked before operation.

Check Item	Check Content	Dealing Method
Appearance	Whether the appearance is worn or loose	Reinforcement
Fasteners	Whether it falls off or is loose	Reinforcement
Gearbox	Engine oil replenishment	Replenish every 30 hours of
Blade	Whether the blade segments become	Replacement parts
	Whether the blade is lubricated	Oiling
Air Filter	Whether there is pollution	Cleaning
Tank	Whether there is fuel and whether the fuel tank cap is loose	Replenish oil. reinforce
Throttle Switch	Whether the low-speed to high-speed switching operation is smooth	Adjust and replace parts
Gasoline Engine Switch	Whether the ON and OFF switch action is good	Replacement parts
Blade adjustment	Whether the blade gap adjustment is good	Adjust
Handle	Whether the handle is fixed	Adjust

6. Use and operation precautions

6.1 The fuel used in the inspection must be pure gasoline of grade 93 or higher, and the engine oil must be a high-quality four-stroke engine oil. Inferior engine oil is prohibited.

6.2 The gasoline engine cannot stop suddenly when it is running at high speed. The idle speed has been adjusted to 2300~2700 rpm when the product leaves the factory. Do not adjust it arbitrarily.

6.3 The blade should be filled with oil every 1 hour of operation. The blade should be lubricated with HG-10 motor oil, and the blade gap should be adjusted correctly.

6.4 Fill the transmission box with ZFG-2 compound calcium-based grease once every 8-10

hours of use.

6.5 Do not subject the machine to severe shocks during transportation.

6.6 When the gasoline engine is running, even if the clutch is disconnected, never touch the blade.

6.7 When the work site is transferred or the operation is terminated. Even for short distances, the gasoline engine should be shut down.

6.8 Do not touch the spark plug when the gasoline engine is running.

6.9 The user must wear earmuffs when working.

6.10 During operation, safety glasses must be worn.

7. Machine installation and using

7.1 Lay the four-stroke power trimming rack on the ground and connect the machine with a flexible shaft, that is, pull up the pull pin on the four-stroke power connector, and then insert one end of the flexible shaft with a pin hole into the connector to align the pull pin shaft. After fixing it, the other end of the flexible shaft is connected to the steering body (seven-shaped elbow) of the trimmer knife holder.

7.2 Work to the fuel tank and add pure gasoline fuel without overflow. Add four-stroke engine oil to the engine oil tank, and the amount of engine oil should reach the position between the upper and lower limits of the oil gauge.

7.3 Before starting, press the carburetor injector several times to exhaust air and inject fuel into the carburetor.

7.4 When the gasoline engine is cooling down or starting in winter, turn on the circuit switch and close the air filter choke, and place the throttle at 1/3.

7.5 Press and hold the gasoline engine and pull the starting rope to start the gasoline engine. After the gasoline engine starts, open the choke of the air filter, increase the throttle slightly, run it for 1-2 minutes, and run it as a warm engine, then increase the throttle and put it into normal operation.

7.6 When the machine is stopped, the throttle switch should be in the low-speed position,

reduce the speed of the gasoline engine, run the engine cold for 1-2 minutes, and then close the circuit switch.

8. Maintenance and adjustment of pruning machine

8.1 Because the blade is a high-speed sliding part, it must be filled with lubricating oil. Every 1 hour of operation, use HG-10 car oil to lubricate and fill the oil once.

8.2 Check and adjust the blade gap. After the machine has been working for a period of time, the blade screw will be loosened due to blade wear or vibration, which will change the normal blade gap (about 0.05mm). Therefore, you must always pay attention to the operation of the blade and check the blade screw. The degree of tightness and the blade gap, whether the blade gap is correct or not, determines the cutting performance of the machine. Excessive gap makes the blade easy to "break", which not only affects the quality of the tea picked, but also damages the tea tree, and makes the picking, The surface of the trimmed tea garden is not neat. If the blade gap is too small, the load increases, and it is difficult to make the blade run or damage the blade. The blade gap adjustment method:

- 1) Loosen the nut.
- 2) Tighten the screw gently with a Phillips screwdriver, and then return it 3/8 turn.
- 3) Tighten the nut, the blade adjusting washer should be able to move flexibly at this time.
- 4) Fill the blade with lubricating oil.
- 5) Start the gasoline engine and run the blades at high speed for 1 minute.
- 6) Shut down the gasoline engine and touch the nut. If the hand can bear the temperature of the nut, the adjustment is good. If your hands are hot, loosen the screw a little more and adjust repeatedly to show satisfaction.

8.3 Removal of spark plug carbon deposit and adjustment of gap

The spark plug must be removed to remove the carbon deposits every 25 hours of operation of the gasoline engine. And readjust the gap between the electrodes (0.5-0.6 mm).

8.4 After 15 hours of use, disassemble the air filter, clean it well with gasoline, wash and dry it and install it tightly. Remove the cylinder head to remove carbon deposits and debris and dust attached to the outer surface.

8.5 Cleaning of the carburetor: When the trimmer is in operation, the conditions are bad and the dust in the air will pollute the gasoline engine. Except for the pollutants from the gasoline engine at the end of each shift, the carburetor should be cleaned after 100 hours

of work. Note: The inside of the oil is well matched with the machine, please do not adjust it at will.

8.6 Every 8 hours of use, or if the gasoline engine works continuously for more than 8 hours, the oil level must be checked and the oil must be refilled to the upper limit of the oil. If the oil is too dirty, please change the oil.

9. When the machine is not used for a long time

9.1 After the gasoline engine cools, release the fuel, press the carburetor injector several times to let the residual fuel in the pipe flow back to the fuel tank, and finally suck out all the fuel in the fuel tank, restart the gasoline engine, and burn the fuel until the gasoline engine automatically turns off.

9.2 Remove the spark plug, inject a few drops of engine oil into the hole, and then gently pull the starter to coat the inner wall of the cylinder with engine oil, and then install the spark plug.

9.3 Remove the dirt on the outside of the machine and the tea pulp on the blades and pressing blades, and store them in a dry place.

9.4 The defective part should be repaired. Necessary repairs, replacements and adjustments should be entrusted to a specialist store.

10. Common faults and troubleshooting methods

10.1 Can not act

Malfunction		Cause Analysis	Elimination Method
There is no spark when the spark plug ignites	Spark plug	①The spark plug electrode is damp ②Coking on the electrode of the spark plug ③The insulator of the spark plug electrode is cracked and poorly insulated ④The spark plug electrode gap is too small or too large ⑤Spark plug electrode burnout	①Dry ②Clean up ③Replace ④Adjust 0.5-0.6mm ⑤Replace
There is a spark when the spark plug is ignited	Good compression, oil supply	① Excessive intake of fuel ②The fuel is not good, there is water, and it is too dirty	Reduce fuel supply Change fuel
	Poor compression, oil supply	Cylinders, pistons, piston rings are worn, and the valve seals are not tight	Replacement
	Carburetor no fuel	①No fuel ② Blocked stomata ③The filter net is clogged ④The intake pipe, carburetor, etc. are loose	Supplement Clear blockage Clean up Fasten

10.2 Lack of motivation

Malfunction	Cause Analysis	Elimination Method
Well compressed Does not burn, flame out	<ol style="list-style-type: none"> (1) Air entering due to joints of fuel pipes, etc. (2) The filter element of the air filter is blocked (3) Moisture mixed in the fuel (4) Piston has a burnt smell 	<ol style="list-style-type: none"> (1) Indeed sealed (2) Cleaning (3) Replace high-quality fuel (4) Carefully clean up each part (5) Clean up carbon deposits
Overheated	<ol style="list-style-type: none"> (1) The fuel is too thin (2) Dust accumulates on fan cover and cylinder heat sink (3) Air leakage on the air inlet side hanging sealing surface 	<ol style="list-style-type: none"> (1) Adjust the carburetor (2) remove (3) Tighten or replace the gasket
Tendency to vibrate (abnormal sound)	<ol style="list-style-type: none"> (1) Poor fuel used (2) Coking in the fuel chamber 	<ol style="list-style-type: none"> (1) Replace high-quality fuel (2) Clean up

10.3 Stop working

Malfunction	Cause Analysis	Elimination Method
Stop working quickly while running	<ol style="list-style-type: none"> (1) Piston sintering (2) Spark plug electrode carbon deposit short circuit (3) The internal fault of the magneto (4) The spark plug cap is off 	<ol style="list-style-type: none"> (1) Correct the piston and cylinder carefully with a file, and replace the sintered ring. (2) Remove carbon deposits (3) Disassemble and inspect (4) Embed in the original mode
Stop when the speed drops	<ol style="list-style-type: none"> (1) Insufficient fuel (2) The inside of the vaporizer is blocked (3) Moisture mixed in the fuel 	<ol style="list-style-type: none"> (1) Make up (2) Check and clean up (3) Exclude and refill fuel

10.4 Difficult to stop working

Malfunction	Cause Analysis	Elimination Method
Gasoline engine	(1) The cylinder piston is overheated and spontaneously ignites inside	Remove carbon deposits from cylinders and pistons
Others	(1) The top of the spark plug is red and hot (2) The connecting wire is off	Clean electrode, adjust gap (0.5-0.6mm) insert

11. Consumable parts list

NO.	Item	Quantity	Note
1	Spark plug	1	
2	Throttle Cable	1	
3	Flameout switch	1	

12. Attachment list

NO.	Item	Quantity	Note
1	Spark plug	1	
2	Spark plug wrench	1	
3	Funnel	1	
4	Point oil can	1	
5	Manual	1	
6	Certification	1	

13. Safety note

1. Please read the product manual in detail before use.
2. When the machine is running, do not touch the blade with your body.
3. Safety glasses must be worn during operation.

4. Post warning signs on the knife holder.



3CX-750A single man tea pruning machine schematic diagram



QUANZHOU DELI AGROFORESTRAL MACHINERY CO LTD

Address: No. 12, Dongxing Road, Anxi County

Telephone/fax: 0595-23142888

Zip code: 362499