

LOTUS[®]
Performance, Delivered.[™]



3" Air Cut Off Tool

LT3CTX

Made in China/Fabriqu  en Chine
Lotus Tool Group (Philippines)
www.lotustoolworks.com



Technical Data

| | |
|--------------------------------------|---------------------|
| Capacity..... | 3"(76mm) |
| Free speed | 18000rpm |
| Avg. Air consumption..... | 4cfm(114l/min) |
| Operating pressure..... | 90psi(6.3bar) |
| Weight..... | 0.69kgs |
| Air inlet size..... | 1/4" |
| Air hose..... | 3/8" ID |
| A weighted sound pressure level..... | 96.9dB(A) |
| Sound power level..... | 107.9 dB(A) |
| Vibration in the handle..... | 2.0m/s ² |

Measured sound values determined in accordance with EN ISO 15744. Measured vibration values determined in accordance with EN 28662 and EN ISO 8662

Parts List (Tools and accessories packed with the cut off tool)

Important Safety Rules

a) General precautions

The cut of tool must not be used with any kind of blade with teeth.
Always use ear protectors and eye protection.
If the cut off tool is turned off, place it in a safe position.
Use only grinding tools which fit to the dimensions of the coupling
.

b) Potential hazards

Take care of following hazards:
-against cutting and severing;
- against drawing in or trapping of long hair, loose clothing;
- against eye injuries;
- against the risk of a whipping compressed air hose.

c) Abrasive product

Ensure safe damping of the abrasive product to the power tool;
Check that **maximum** operating speed of the abrasive product converted to revolutions per minute is equal to or greater than the rated speed of the spindle.
Ensure that the abrasive product dimensions are compatible with the grinder and that the abrasive product fits the spindle.
Ensure that the thread type and size of the abrasive product exactly matches the thread type and size of the spindle.
Tore and handle the abrasive product with care in accordance with manufacturers instructions;
Inspect the abrasive product before use, do not use chipped, cracked or otherwise defective products.
Use blotters when they are provided with the bonded abrasive product.
Ensure that the abrasive product is correctly mounted and tightened before use and to run the power tool at

no-load speed for 30 s in a safe position, to stop immediately if considerable vibration or other defects are detected and to determine the cause of these defects.

Do not use separate reducing bushings or adapters for abrasive products with too large holes. If they are not supplied by the manufacturers of abrasive products and when bushings are used make sure that the flange is properly clamped.

d) Guards

Ensure that the guard is in place, is in good condition and is correctly mounted and that it shall be regularly inspected.

e) Correct function of grinder

Check regularly that the speed of the grinder is not higher than that marked on it.

Check that all connections, such as for hoses are in good condition and are properly installed;

Check that the flanges as specified by the manufacturer are used and are in good condition e.g. free from cracks and burrs and are plane;

Check that the spindle and spindle threads are not damaged or worn.

f) Correct working with the grinder

The grinder shall not be used in potentially explosive atmospheres

Check that the work piece is properly supported or fixed.

When cutting-off, the workpiece shall be so supported that the slot is kept at constant or increasing width during the whole operation.

If the abrasive product get jammed in a cut slot, shut off the grinder and ease the **wheel** free. Check that the wheel is still correctly secured and not damaged before continuing the operation.

The cutting-off wheel shall not be used for side grinding;

Ensure that sparks and debris resulting from use do not create a hazard:

Certain materials creates emission of dust and fumes. Use dust collectors and personal protective devices (safety mask, goggles, hand protection and safety clothes).

Working in certain materials creates emission of dust and fumes, causing a potentially explosive environment.

The operator shall pay attention that no bystanders are in the vicinity;

Personal protective equipment such as gloves, apron and helmet shall be used.

Examine the abrasive product thoroughly before re-use, if the power tool, fitted with an abrasive product, has been dropped.

Disconnect the grinder from the energy supply before changing abrasive product and servicing.

Release the start and stop device in the case of an interruption of the energy supply.

Operating Instructions

Description

Durable lightweight aluminum housing, lever throttle for safety trigger , aluminum grip can guard the sparkle, rear exhaust, built-in air regulator for simple power and speed control. Solid metal construction provides for long tool life. To cut off mufflers and tail pipes quickly and efficiently .

Air supply

1. Ensure air valve (or trigger) is in the “off” position before connecting to the air supply.
2. You will require an air pressure of 90psi, and an air flow according to specification.
3. **WARNING!** Ensure the air supply is clean and does not exceed 90psi while operating the wrench. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing damage and/or personal injury.
4. Drain the air tank daily. Water in the air line will damage the wrench.
5. Clean air inlet filter weekly.
6. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres).
The hose diameter should be 3/8” I.D.
7. Keep hose away from heat, oil and sharp edges. Check hose for wear, and make certain that all connections are secure.

Lubrication

An automatic in-line filter-regulator-lubricator is recommended (Fig4) as it increases tool life and keeps the tool in sustained operation. The in-line lubricator should be regularly checked and filled with air tool oil.

Proper adjustment of the in-line lubricator is performed by placing a sheet of paper next to the exhaust ports and holding the throttle open approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper. Excessive amounts of oil should be avoided.

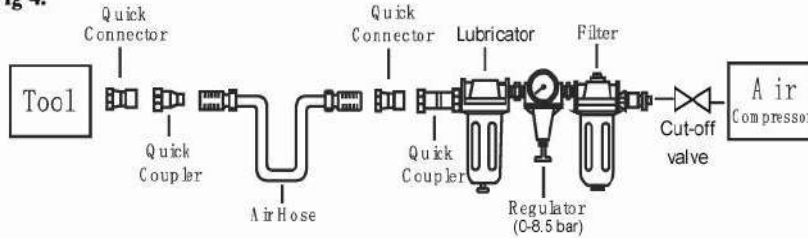
In the event that it becomes necessary to store the tool for an extended period of time (overnight, weekend, etc.), it should receive a generous amount of lubrication at that time. The tool should be run for approximately 30 seconds to ensure oil has been evenly distributed throughout the tool. The tool should be stored in a clean and dry environment.

- It is most important that the tool be properly lubricated by keeping the air line lubricator filled and correctly adjusted. Without proper lubrication the tool will not work properly and parts will wear prematurely.
- Use the proper lubricant in the air line lubricator. The lubricator should be of low air flow or changing air flow type, and should be kept filled to the correct level. Use only recommended lubricants, specially made for pneumatic applications. Substitutes may harm the rubber compounds in the tools O-rings and other rubber parts.

IMPORTANT!!!

If a filter/regulator/lubricator is not installed on the air system, air operated tools should be lubricated at least once a day or after 2 hours work with 2 to 6 drops of oil, depending on the work environment, directly through the male fitting in the tool housing.

Fig 4.



Loading and operation

⚠ WARNING: Ensure you read, understand and apply safety instructions before use.

1. Connect the tool to the air hose .
2. Press trigger to operate the tool
3. Ensure the air supply is clean and does not exceed 90psi while operating the wrench. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing damage and/or personal injury.
DO NOT use any additional force upon the tool in order to remove a nut.
DO NOT allow tool to free run for an extended period of time as this will shorten its life.

✂ Maintenance

⚠ WARNING: Disconnect tool from air supply before changing accessories, servicing or performing maintenance. Replace or repair damaged parts. *Use genuine parts only. Non-authorised parts may be dangerous*
Check the non loaded tool after big maintenance.

1. Lubricate the air tool daily with a few drops of air tool oil dripped into the air inlet
2. DO NOT use worn, or damaged tool.
3. Loss of power or erratic action may be due to the following:
 - a) Excessive drain on the air line. Moisture or restriction in the air pipe. Incorrect size or type of hose connectors. To remedy check the air supply.
 - b) Grit or gum deposits in the tool may also reduce performance. If your model has an air strainer (located in the area of the air inlet), remove the strainer and clean it.
4. When not in use, disconnect from air supply, clean tool and store in a safe, dry, childproof location.

Trouble Shooting

The following form lists the common operating system with problem and solutions. Please read the form carefully and follow it.

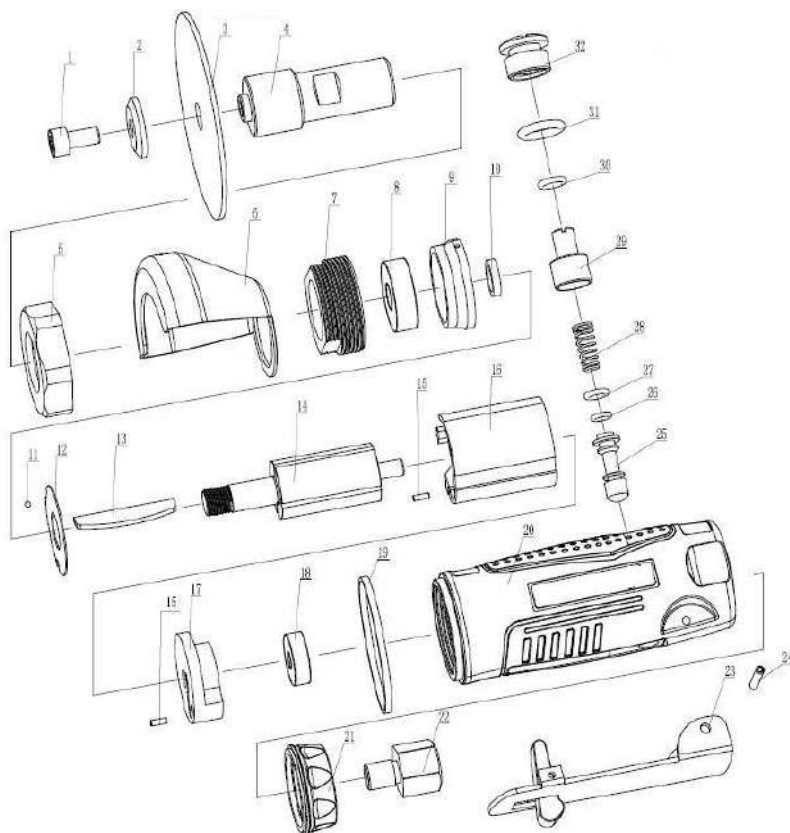
⚠ WARNING: If any of the following symptoms appears during your operating, stop using the tool immediately, or serious personal injury could result. Only a qualified persons or an authorized service center can perform repairs or replacement of tool.

Disconnect tool from air supply before attempting repair or adjustment. When replacing O-rings or Cylinder, lubricate with air tool oil before assembly.

| PROBLEMS | POSSIBLE CAUSES | REMEDIES |
|---|---|--|
| Tool runs at normal speed but loses under load | <ul style="list-style-type: none"> ■ Motor parts worn. ■ Cam clutch worn or sticking due to lack of lubricant. | <ul style="list-style-type: none"> ■ Lubricating clutch housing. ■ Check for excess clutch oil. Clutch cases need only be half full. Overfilling can cause drag on high speed clutch parts, ie. a typical oiled/lubricated wrench requires 1/2 ounce of oil. <p>GREASE LUBRICATED:NOTE: Heat usually indicates insufficient grease in chamber. Severe operating conditions may require more frequent lubrication.</p> |
| Tool runs slowly. Air flows slightly from exhaust | <ul style="list-style-type: none"> ■ Motor parts jammed with dirt particles ■ Power regulator in closed position ■ Air flow blocked by dirt. | <ul style="list-style-type: none"> ■ Check air inlet filter for blockage. ■ Pour air tool lubricating oil into air inlet as per instructions. ■ Operate tool in short bursts quickly reversing rotation back and forth where applicable. ■ Repeat above as needed. |
| Tools will not run. Air flows freely from exhaust | <ul style="list-style-type: none"> ■ One or more motor vanes stuck due to material build up. | <ul style="list-style-type: none"> ■ Pour air tool lubricating tool into air inlet. ■ Operate tool in short bursts of forward and/or reverse rotation where applicable. ■ Tap motor housing gently with plastic mallet. ■ Disconnect supply. Free motor by rotating drive shank manually where applicable |
| Tool will not shut off | <ul style="list-style-type: none"> ■ 'O' rings throttle valve dislodged from seat inlet valve. | <ul style="list-style-type: none"> ■ Replace 'O' ring . |

Note: Repairs should be carried out by a qualified person.

Exploding view



| No. | Description | No. | Description | No. | Description | No. | Description |
|-----|---------------|-----|---------------|-----|-----------------------|-----|---------------------|
| 1 | Bolt | 9 | Front plate | 17 | Back plate | 25 | Lockage pin |
| 2 | Washer | 10 | Rotor bushing | 18 | Bearing | 26 | O-ring |
| 3 | Cutter | 11 | Steel ball | 19 | Rubber ring | 27 | O-ring |
| 4 | Fixed seat | 12 | Gasket | 20 | housing | 28 | Lockage ring spring |
| 5 | Front sheath | 13 | Rotor blade | 21 | Noise reduction plate | 29 | Regulator |
| 6 | Cutter sheath | 14 | Rotor | 22 | Air plug inlet | 30 | O-ring |
| 7 | Lockage ring | 15 | Pin | 23 | Trigger | 31 | O-ring |
| 8 | Bearing | 16 | Cylinder | 24 | Pin | 32 | Adjusting nut |