

# Kooima Trner® CT0800

## Compost Turner

Owner's Manual



PATENT PENDING



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# 1. Introduction

Congratulations on the purchase of your compost turner. Our goal is to provide you a machine that will efficiently compost windrows quickly.

For your safety, read and understand this manual before operating your compost turner.

## 2. Skid Steer Requirements

- Minimum Skid Steer lifting capacity: 1600lbs
- Minimum Skid Steer hydraulic flow: 18gpm
  - Recommended hydraulic flow: 26gpm
  - High Flow is prohibited. Using high flow hydraulics will void the warranty.
- Hydraulic pressure: 3000psi

## 3. Safety

### 3.1. Operational Safety

- Read the Owner's Manual before using the machine
- Keep clothing and body parts away from all moving parts while machine is moving
- Stay clear of machine while it's operating, debris can be thrown considerable distances from the rotor
- Do not ride on the machine
- Watch out for pinch points from moving parts
- Familiarize yourself with all aspects of machine before operating



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- Check that all paddles are bolted down properly and replace bent/broken ones before operating machine. Broken paddles can fly off rotor at high speeds and cause serious injury
- Wear proper hand, eye, and ear protection while operating and working on machine
- Make sure all guards are in place before using machine
- Be aware of your surroundings. It can be difficult to see opposite side of the machine during operation. Make sure you have adequate room for maneuvering and operation

### **3.2. Maintenance Safety**

- Before working on machine, make sure the machine is lowered to the ground, the skid steer is shut off, and all moving parts have stopped.
- Relieve all hydraulic pressure before working on hydraulic system, contents under HIGH PRESSURE
- Make sure the support tire is torqued properly and is filled to the appropriate air pressure
- Regularly check all hydraulics and lines for leaks and fix or replace as needed



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## 4. Maintenance

### 4.1. Daily Maintenance

- Grease each Rotor bearing (3x)
- Lubricate chain every day of use
- Inspect drum paddles every day of use. Torque any loose paddles (80 ft/lbs). Replace any bent, missing, or overly worn paddles (paddle is considered worn if overall height is shorter than 7”).
- Inspect hydraulic motor and lines to ensure nothing is broken or leaking.
- Remove all material wrapped around drum before starting.

### 4.2. Monthly Maintenance

- Torque lug nuts on the support tire after the first 5 hours of use. Check torque monthly. (80 ft/lbs on support tire)
- Check tire pressure.
- Check/reset the tension in the roller chain.
- Check for proper alignment of sprockets

### 4.3. Yearly Maintenance

- Examine roller chain for stretch and replace as necessary
- Re-pack wheel bearing with grease



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## 5. Operation Instructions

### 5.1. Written Instructions

Approach the compost windrow with the windrow centered in the working area of the Trner®. Before starting in the row, engage the hydraulics to allow the rotor to spin at a low RPM. With the rotor spinning backwards, ease into the windrow until the rotor is completely covered. Then increase RPM to full operating speed. (This is done to reduce the amount of material to be thrown behind the desired start of the windrow.) Advance through the windrow at a slow and steady speed.

Ground speed will depend on the size, moisture, and density of the compost windrow. Fine adjustments in speed can make a significant difference in windrow shape. Too slow of speed could produce flat undesirable shape to the windrow. And too fast of a speed could potentially stall out the skid steer.

When approaching the end of the windrow repeat the process on how the windrow was started. Once approaching the end of the window slow down the rotor to a low RPM. Then as the rotor is no longer engaged in the compost material disengage the hydraulics to stop the rotor from turning.

Advance to the next windrow and repeat the process as explained above.

If you have any questions on how to further process your composting windrows, or if you have any questions regarding the operations of your CT0800 (Patent Pending) compost turner, please feel free to give us a call (712-476-5600) and we can help guide you with your composting needs.



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## 5.2. Operation Videos



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## 6. Service Parts

### 6.1. Hydraulic parts

| <u>Part No.</u> | <u>Description</u>                  |
|-----------------|-------------------------------------|
| C00484          | Hydraulic Motor                     |
| 6400-08-16      | -8 Male JIC to -16 Male ORB Fitting |

### 6.2. Hydraulic Specs

Both hydraulic hoses used on the Skid Trner® are:

- ½” 3000 psi rated hose
  - -8 JIC swivel female connector one end
  - -8 ORB male opposite end
- Overall length from fitting end to fitting end is 89-3/16” long

### 6.3. Drivetrain

| <u>Part No.</u> | <u>Description</u>                    |
|-----------------|---------------------------------------|
| C00482          | 20 Tooth 1-1/2” Bore Sprocket (Motor) |
| C00458          | #80 Heavy Roller Chain 36” Long       |
| C00481          | Hydraulic Motor Shaft Spacer          |
| C00368          | Shaft End Cap                         |
| C00483          | 15 Tooth 2” Bore Sprocket (Rotor)     |
| 50KEY32         | ½” Square Key 2” Long                 |



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## 6.4. Miscellaneous

| <u>Part No.</u> | <u>Description</u>                     |
|-----------------|--|
| C00431          | Paddle, CT0800                         |
| C00436          | Mud Flap                               |
| C00456          | 3" Bore, 4 Bolt Flange Bearing (Rotor) |
| 20-4bolt-LC     | 2" Bore, 4 Bolt Flange Bearing         |

## 7. Limited Warranty

Kooima Company warrants that the CT0800 (Patent Pending) shall be free of manufacturing defects for up to one year to the original purchaser. This warranty does not cover any unit that has been abused, not in its proper use, or had any unauthorized repairs done.

In the event of a warranty claim, the following actions will be made, at Kooima Company's option: 1) Repair, 2) Replacement. To make a proper claim please contact:

Nolan Den Boer (712-476-6204)

Kooima Company (712-476-5600)



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