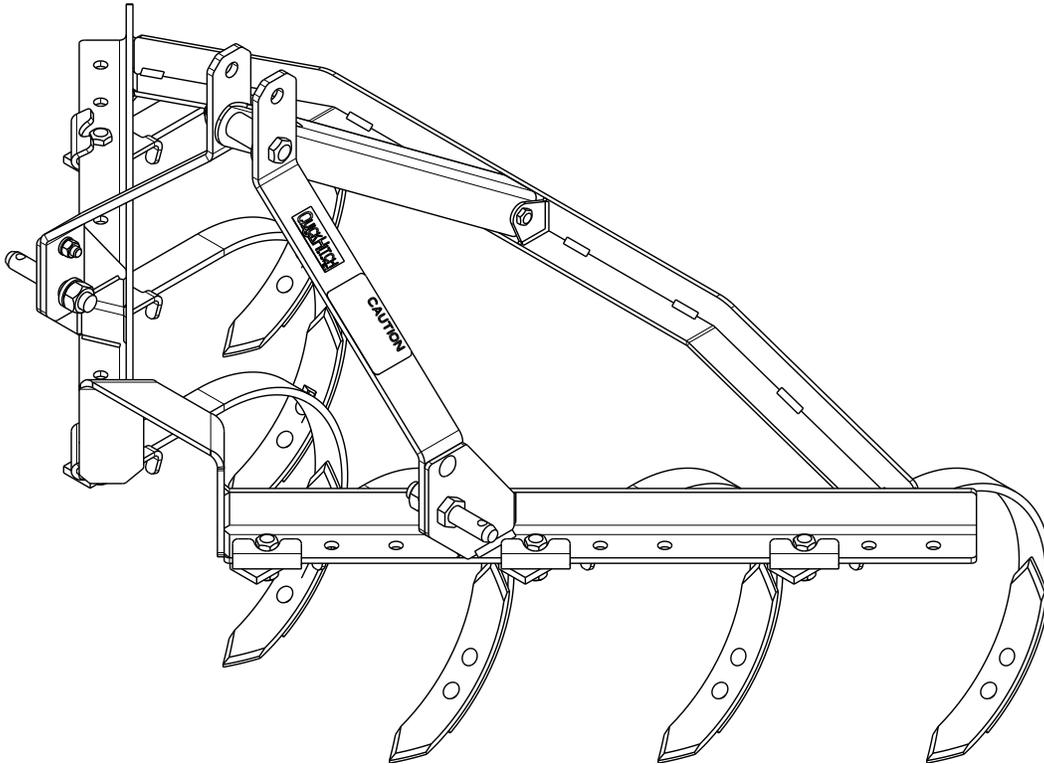


C-Tine Field Cultivator

FC10



39559

335-043M Operator's Manual



Read the Operator's Manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

Cover photo may show optional equipment not supplied with standard unit.

For an Operator's Manual and Decal Kit in French Language, please see your Land Pride dealer.



Machine Identification

Record your machine details in the log below. If you replace this manual, be sure to transfer this information to the new manual.

If you, or the dealer, have added Options not originally ordered with the machine, or removed Options that were originally ordered, the weights and measurements are no longer accurate for your machine. Update the record by adding the machine weight and measurements provided in the Specifications & Capacities Section of this manual with the Option(s) weight and measurements.

Model Number	
Serial Number	
Machine Height	
Machine Length	
Machine Width	
Machine Weight	
Delivery Date	
First Operation	
Accessories	<hr/> <hr/> <hr/>

Dealer Contact Information

Name: _____

Street: _____

City/State: _____

Telephone: _____

Email: _____

California Proposition 65

 **WARNING:** Handling passenger or off-highway motor vehicle parts can expose you to chemicals such as phthalates and lead, which can cause cancer and reproductive harm. To minimize exposure, service the vehicle in a well-ventilated area, wear gloves, and wash your hands. For more information see www.P65Warnings.ca.gov/motor-vehicle-parts.



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Printed in the United States of America.



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See previous page for Table of Contents.



Parts Manual QR Locator

The QR (Quick Reference) code to the left will take you to the Parts Manual for this equipment. Download the appropriate App on your smart phone, open the App, point your phone on the QR code and take a picture.



Dealer QR Locator

The QR code on the left will link you to available dealers for Land Pride products. Refer to Parts Manual QR Locator on this page for detailed instructions.

Listed below are common practices that may or may not be applicable to the products described in this manual.

Safety at All Times

Careful operation is your best assurance against an accident.

All operators, no matter how much experience they may have, should carefully read this manual and other related manuals before operating the power machine and this implement.

- ▲ Thoroughly read and understand the "Safety Label" section. Read all instructions noted on them.
- ▲ Do not operate the equipment while under the influence of drugs or alcohol, as they impair your ability to safely and properly operate the equipment.
- ▲ The operator should be familiar with all functions of the tractor and attached implement, and be able to handle emergencies quickly.
- ▲ Make sure all guards and shields appropriate for the operation are in place and secured before operating the implement.
- ▲ Keep all bystanders away from equipment and work area.
- ▲ Start tractor from the driver's seat with hydraulic controls in neutral.
- ▲ Operate tractor and controls from the driver's seat only.
- ▲ Never dismount from a moving tractor or leave tractor unattended with engine running.
- ▲ Do not allow anyone to stand between the implement and tractor while backing up to the implement.
- ▲ Keep hands, feet, and clothing away from power-driven parts.
- ▲ While transporting and operating equipment, watch out for objects overhead and along the sides such as fences, trees, buildings, wires, etc.
- ▲ Do not turn tractor so tight as to cause hitched implement to ride up on the tractor's rear wheel.
- ▲ Store implement in a safe and secure area where children normally do not play. When needed, secure implement against falling with support blocks.



Look for the Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety and extra precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. Hazard control, and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

Be Aware of Signal Words

A signal word designates a degree or level of hazard seriousness. They are:

- ▲ **DANGER:** Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
- ▲ **WARNING:** Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
- ▲ **CAUTION:** Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

Be Aware of Special Notices

Special notices are intended to point out important and helpful information that should be followed. They are usually placed inside a box. They are:

- ▲ **IMPORTANT:** Indicates that equipment or property damage could result if instructions are not followed.
- ▲ **NOTE:** Indicates supplementary explanations that will be helpful when using the equipment.

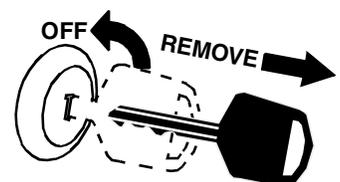
Safety Precautions for Children

Tragedy can occur if the operator is not alert to the presence of children, Children generally are attracted to implements and their work.

- ▲ Never assume children will remain where you last saw them.
- ▲ Keep children out of the work area and under the watchful eye of a responsible adult.
- ▲ Be alert and shut the implement and tractor down if children enter the work area.
- ▲ Never carry children on the tractor or implement. There is not a safe place for them to ride. They may fall off and be run over or interfere with the control of the power machine.
- ▲ Never allow children to operate the power machine, even under adult supervision.
- ▲ Never allow children to play on the power machine or implement.
- ▲ Use extra caution when backing up. Before the tractor starts to move, look down and behind to make sure the area is clear.

Tractor Shutdown & Storage

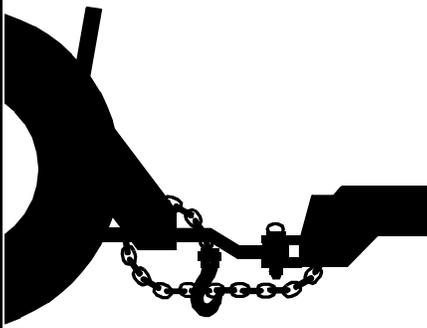
- ▲ If engaged, disengage power take-off.
- ▲ Park on solid, level ground and lower implement to ground or onto support blocks.
- ▲ Put tractor in park or set park brake.
- ▲ Turn off engine and remove ignition key to prevent unauthorized starting.
- ▲ Relieve all hydraulic pressure to auxiliary hydraulic lines.
- ▲ Wait for all components to stop before leaving operator's seat.
- ▲ Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.



Listed below are common practices that may or may not be applicable to the products described in this manual.

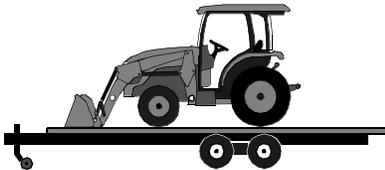
Use A Safety Chain

- ▲ A safety chain will help control drawn machinery should it separate from the tractor drawbar.
- ▲ Use a chain with the strength rating equal to or greater than the gross weight of the towed implement.
- ▲ Attach the chain to the tractor drawbar support or other specified anchor location. Allow only enough slack in the chain to permit turning.
- ▲ Always hitch the implement to the machine towing it. Do not use the safety chain to tow the implement.



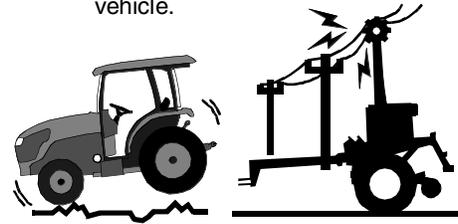
Towing Safely

- ▲ Comply with federal, state, and local laws.
- ▲ Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with chocks, tie downs, and chains.
- ▲ **IMPORTANT:** Do not tow a load that is more than double the weight of the vehicle towing the load.
- ▲ Sudden braking can cause a towed trailer to swerve unexpectedly. Reduce speed if trailer is not equipped with brakes.



Transport Safely

- ▲ Comply with federal, state, and local laws.
- ▲ Avoid contact with any overhead utility lines or electrically charged conductors.
- ▲ Engage park brake when stopped on an incline.
- ▲ Maximum transport speed for an implement is 20 mph (32 km/h). **DO NOT EXCEED.**
- ▲ Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrains require a slower speed. Sudden braking can cause a towed load to swerve and upset.
- ▲ Do not tow an implement that, when fully loaded, weighs more than 1.5 times the weight of towing vehicle.



Tire Safety

- ▲ Tire changing can be dangerous and must be performed by trained personnel using the correct tools and equipment.
- ▲ Always properly match the wheel size to the properly sized tire.
- ▲ Always maintain correct tire pressure. Do not inflate tires above recommended pressures shown in the Operator's Manual.
- ▲ When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.
- ▲ Securely support the implement when changing a wheel.
- ▲ When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
- ▲ Make sure wheel bolts have been tightened to the specified torque.



Practice Safe Maintenance

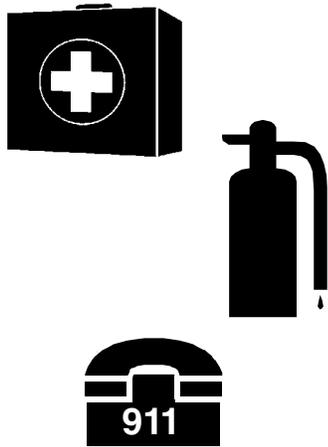
- ▲ Understand procedure before doing work. Refer to the Operator's Manual for additional information.
- ▲ Work on a level surface in a clean dry area that is well-lit.
- ▲ Lower implement to the ground and follow all shutdown procedures before leaving the operator's seat to perform maintenance.
- ▲ Do not work under any hydraulically supported equipment. It can settle, suddenly leak down, or be lowered accidentally. If it is necessary to work under the equipment, securely support it with stands or suitable blocking beforehand.
- ▲ Use properly grounded electrical outlets and tools.
- ▲ Use correct tools and equipment for the job that are in good condition.
- ▲ Allow equipment to cool before working on it.
- ▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- ▲ Inspect all parts. Make certain parts are in good condition & installed properly.
- ▲ Replace parts on this implement with genuine Land Pride parts only. Do not alter this implement in a way which will adversely affect its performance.
- ▲ Do not grease or oil implement while it is in operation.
- ▲ Remove buildup of grease, oil, or debris.
- ▲ Always make sure any material and waste products from the repair and maintenance of the implement are properly collected and disposed.
- ▲ Remove all tools and unused parts from equipment before operation.
- ▲ Do not weld or torch on galvanized metal as it will release toxic fumes.



Listed below are common practices that may or may not be applicable to the products described in this manual.

Prepare for Emergencies

- ▲ Be prepared if a fire starts.
- ▲ Keep a first aid kit and fire extinguisher handy.
- ▲ Keep emergency numbers for doctor, ambulance, hospital, and fire department near the phone.



Wear Personal Protective Equipment (PPE)

- ▲ Wear protective clothing and equipment appropriate for the job such as safety shoes, safety glasses, hard hat, dust mask, and ear plugs.
- ▲ Clothing should fit snug without fringes and pull strings to avoid entanglement with moving parts.
- ▲ Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- ▲ Operating a machine safely requires the operator's full attention. Avoid wearing headphones while operating equipment.



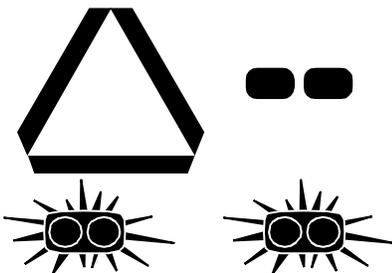
Avoid High Pressure Fluids

- ▲ Escaping fluid under pressure will penetrate the skin or eyes causing serious injury.
- ▲ Relieve all residual pressure before disconnecting hydraulic lines or performing work on the hydraulic system.
- ▲ Make sure all hydraulic fluid connections are properly tightened/torqued and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ **DO NOT DELAY.** If an accident occurs, seek immediate emergency medical care or gangrene may result.



Use Safety Lights and Devices

- ▲ A slow moving power machine can create a hazard when driven on public roads. They are difficult to see, especially at night.
- ▲ Flashing warning lights and turn signals are recommended whenever driving on public roads.
- ▲ For tractors and other agriculture equipment, a Slow Moving Vehicle (SMV) sign is required when traveling on public roads.



Use Seat Belt and ROPS

- ▲ Land Pride recommends the use of a CAB or roll-over-protective-structures (ROPS) and seat belt in almost all power machines. Combination of a CAB or ROPS and seat belt will reduce the risk of serious injury or death if the power machine should be upset.
- ▲ If ROPS is in the locked-up position, fasten seat belt snugly and securely to help protect against serious injury or death from falling and machine overturn.



Keep Riders Off Machinery

- ▲ Never carry riders on the tractor or implement.
- ▲ Riders obstruct operator's view and interfere with the control of the power machine.
- ▲ Riders can be struck by objects or thrown from the equipment.
- ▲ Never use the tractor or implement to lift or transport riders.



Listed below are common practices that may or may not be applicable to the products described in this manual.

Avoid Crystalline Silica (Quartz) Dust

Because crystalline silica is a basic component of sand and granite, many activities at construction sites produce dust containing crystalline silica. Trenching, sawing, and boring of material containing crystalline silica can produce dust containing crystalline silica particles. This dust can cause serious injury to the lungs (silicosis).

There are guidelines which should be followed if crystalline silica (quartz) is present in the dust.



- ▲ Be aware of and follow OSHA (or other local, State, or Federal) guidelines for exposure to airborne crystalline silica.
- ▲ Know the work operations where exposure to crystalline silica may occur.
- ▲ Participate in air monitoring or training programs offered by the employer.
- ▲ Be aware of and use optional equipment controls such as water sprays, local exhaust ventilation, and enclosed cabs with positive pressure air conditioning if the machine has such equipment. Otherwise respirators shall be worn.
- ▲ Where respirators are required, wear a respirator approved for protection against crystalline silica containing dust. Do not alter respirator in any way. Workers who use tight-fitting respirators can not have beards/mustaches which interfere with the respirator seal to the face.
- ▲ If possible, change into disposable or washable work clothes at the work site; shower and change into clean clothing before leaving the work site.
- ▲ Do not eat, drink, use tobacco products, or apply cosmetics in areas where there is dust containing crystalline silica.
- ▲ Store food, drink, and personal belongings away from the work area.
- ▲ Wash hands and face before eating, drinking, smoking, or applying cosmetics after leaving the exposure area.

Handle Chemicals Properly

- ▲ Protective clothing should be worn.
- ▲ Handle all chemicals with care.
- ▲ Follow instructions on container label.
- ▲ Agricultural chemicals can be dangerous. Improper use can seriously injure persons, animals, plants, soil, and property.
- ▲ Inhaling smoke from any type of chemical fire can be a serious health hazard.
- ▲ Store or dispose of unused chemicals as specified by the chemical manufacturer.



Dig Safe - Avoid Underground Utilities

- ▲ **USA: Call 811**
CAN: digsafecanada.ca
Always contact your local utility companies (electrical, telephone, gas, water, sewer, and others) before digging so that they may mark the location of any underground services in the area.
- ▲ Be sure to ask how close you can work to the marks they positioned.





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Important Safety Information

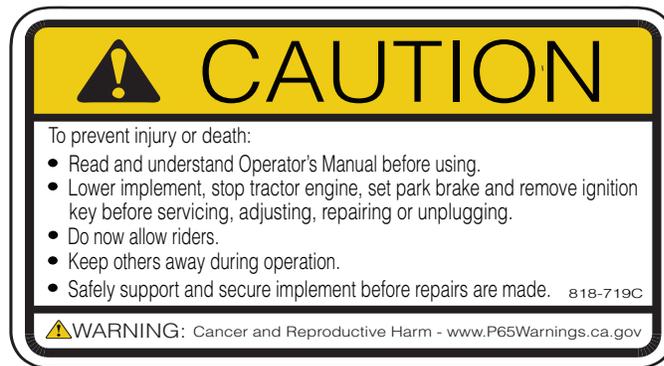
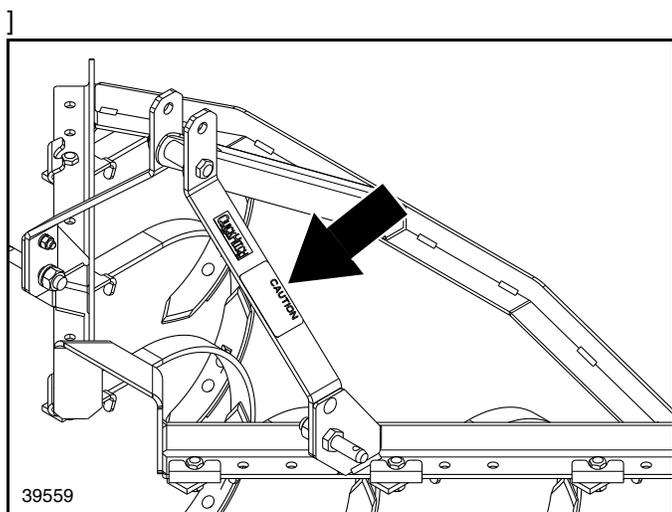
Safety Labels

Your C-Tine Field Cultivator comes equipped with all safety labels in place. They are designed to help you safely operate your implement. Read and follow their directions.

1. Keep all safety labels clean and legible.
2. Refer to this section for proper label placement. Replace all damaged or missing labels. Order new labels from your nearest Land Pride dealer. To find your nearest dealer, visit our dealer locator at www.landpride.com.
3. Some new equipment installed during repair requires safety labels to be affixed to the replaced component as

specified by Land Pride. When ordering new components make sure the correct safety labels are included in the request.

4. Refer to this section for proper label placement. To install new labels:
 - a. Clean surface area where label is to be placed.
 - b. Spray soapy water onto the cleaned area.
 - c. Peel backing from label and press label firmly onto the surface.
 - d. Squeeze out air bubbles with edge of a credit card or with a similar type of straight edge.



818-719C

Caution: General Information (1 Place)
 Located left side of 3-point hitch.

Introduction

Land Pride welcomes you to the growing family of new product owners. This C-Tine Field Cultivator has been designed with care and built by skilled workers using quality materials. Proper assembly, maintenance, and safe operating practices will help you get years of satisfactory use from this cultivator.

Application

The FC10 Field Cultivator is designed and built by Land Pride to perform ripping, loosening, and renovation or reshaping of the soil surface, and to prepare a seedbed for planting. This cultivator offers 60" working width and is adapted for Category 1 3-point hitch mount to tractors with a maximum 45 horsepower rating. The 3-point hitch is Quick Hitch adaptable.

The Land Pride FC10 Cultivator has applications in landscaping, smaller nurseries, gardens, small hobby farms, and wild game food plots.

See “**Specifications & Capacities**” on page 15 and “**Features & Benefits**” on page 16 for additional information and performance enhancing options.

Using This Manual

- This Operator’s Manual is designed to help familiarize the operator with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.
- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
- To order a new Operator’s or Parts Manual, contact your authorized dealer. Manuals can also be downloaded, free-of-charge, from our website at www.landpride.com

Terminology

“Right” or “Left” as used in this manual is determined by facing forward in the direction the machine will operate while in use unless otherwise stated.

Definitions

IMPORTANT: A special point of information related to the following topic. Land Pride’s intention is this information must be read & noted before continuing.

NOTE: A special point of information that the operator should be aware of before continuing.

Owner Assistance

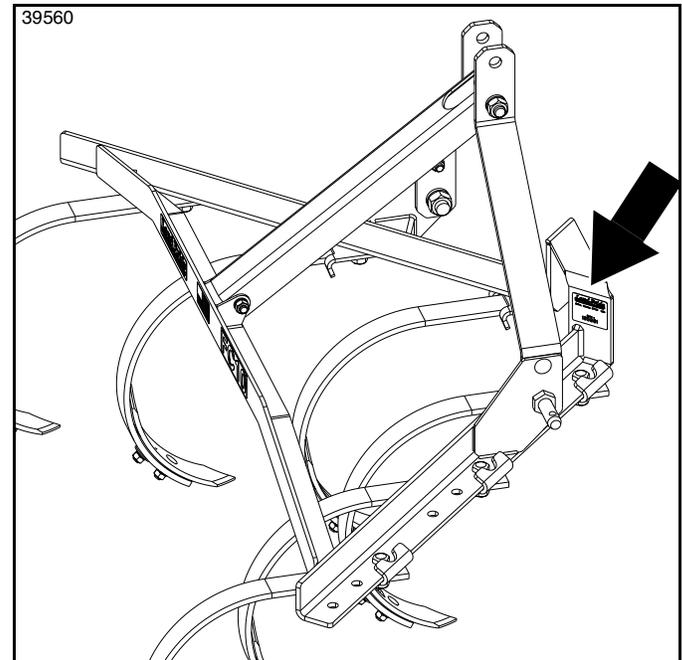
The dealer should complete the Online Warranty Registration at the time of purchase. This information is necessary to provide you with quality customer service.

The parts on your C-Tine Field Cultivator have been specially designed by Land Pride and should only be replaced with genuine Land Pride parts. Contact a Land

Pride dealer if customer service or repair parts are required. Your Land Pride dealer has trained personnel, repair parts, and equipment needed to service the implement.

Serial Number

For quick reference and prompt service, record model and serial number on the inside cover page and again on the warranty page. Always provide model number and serial number when ordering parts and in all correspondences with your Land Pride dealer. For location of your serial number plate, see Figure 1.



Serial Number Plate Location
Figure 1

Further Assistance

Your dealer wants you to be satisfied with your new C-Tine Field Cultivator. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

1. Discuss any problems you have with your implement with your dealership service personnel so they can address the problem.
2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the problem, and request assistance.
3. For further assistance write to:

Land Pride Service Department
1525 East North Street
P.O. Box 5060
Salina, Ks. 67402-5060

E-mail address
lpSERVICE@landpride.com



Section 1: Assembly & Set-up

Tractor Requirements

Tractor horsepower should be within the range noted below. Tractors outside the horsepower range must not be used.

- Horsepower Rating Maximum 45 hp
- Hitch Type 3-Point Cat. I
- Tractor Weight See Warning Alert below

WARNING

To avoid serious injury or death:

Lightweight tractors with rear attached implements may need weights added to the front to maintain steering control. Consult your tractor Operator's Manual to determine weight requirements and maximum limitations.

Torque Requirements

See “**Torque Values Chart**” page 18 to determine correct torque values when tightening hardware.

Pre-Assembly Checklist

✓	Check	Reference
<input type="checkbox"/>	Have a fork lift or loader with properly sized chains and safety stands capable of lifting and supporting the equipment on hand.	
<input type="checkbox"/>	Have a minimum of two people available during assembly.	
<input type="checkbox"/>	Make sure all major components and loose parts are shipped with the machine.	Operator's Manual
<input type="checkbox"/>	Double check to make sure all parts, fasteners and pins are installed in the correct location to lessen the chance of using a bolt incorrectly. Refer to the Parts Manual if unsure. NOTE: All assembled hardware from the factory has been installed in the correct location. Remember location of a part or fastener if removed. Keep parts separated.	Operator's Manual 335-043M Parts Manual 335-043P
<input type="checkbox"/>	Make sure working parts move freely, bolts are tight & cotter pins are spread.	Operator's Manual
<input type="checkbox"/>	Make sure all safety labels are correctly located and legible. Replace if damaged.	Page 4

Before You Start

WARNING

To avoid serious injury or death:

Allow only persons to operate this implement who have fully read and comprehended this manual, and who have been properly trained in the safe operation of this implement. Serious injury or death can result from the inability to read, understand, and follow instructions provided in this manual.

Read and understand the operator’s manual for your cultivator. An understanding of how it works will aid in the assembly and setup of your cultivator. It is best to go through the **Assembly Checklist** on this page before assembling the cultivator. Speed up your assembly task and make the job safer by having all needed parts and equipment readily at hand.

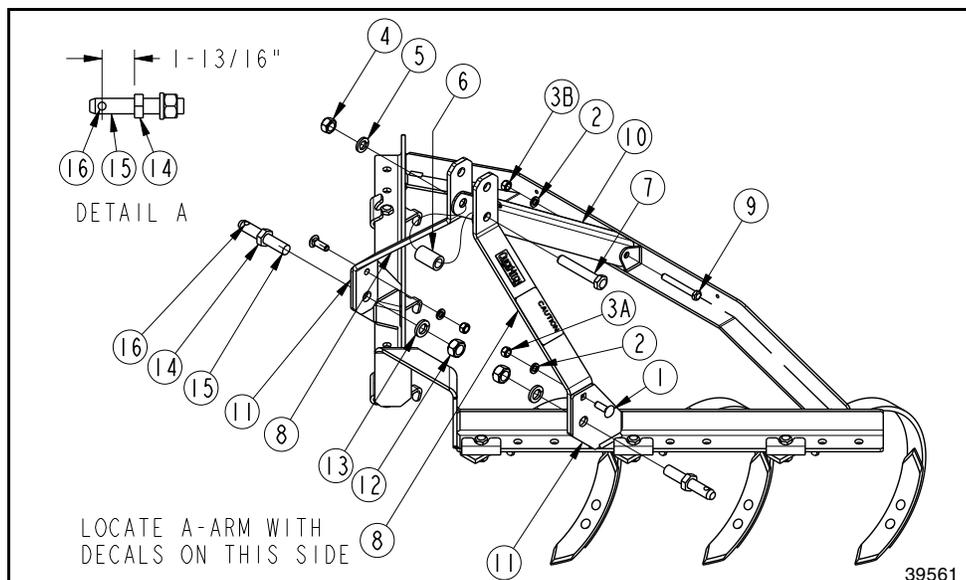
Uncrating Instructions

Refer to Figure 1-1 on page 7:

IMPORTANT: A-arms (#8) and rear support channel (#10) are attached to the mainframe for shipping. To protect against scratching the paint, they should be removed from the main frame before removing the cultivator from the crate.

1. The field cultivators are shipped packaged two to a crate and must be removed carefully to protect the paint from scratches.
2. Remove A-arms (#8) and rear support channel (#10) from the upper cultivator as follows:
 - a. Loosen nut (#4) until rear support channel (#10) can be rotated as needed to snake the A-arms and channel out of the crate.
 - b. Remove hex nuts (#12), lock washers (#13), and hitch pins (#15). Keep hardware for reuse.
 - c. Carefully remove A-arms (#8) and rear support channel (#10) from the shipping crate.
3. Repeat step 2 to remove A-arms (#8) and rear support channel (#10) from the lower cultivator.
4. Support upper cultivator with a hoist or other lifting device to keep unit from dropping while removing metal bands and/or lag screws.
5. Cut metal bands and/or remove lag screws securing the upper cultivator to the crate.
6. Cut upper horizontal section of the crate in half.
7. Cut the four vertical supports of the crate off as close to the bottom as possible and remove upper crate halves.
8. Carefully lift the upper cultivator out of the crate and set it on the floor in the upright position.
9. Cut metal bands and/or remove lag screws securing the lower cultivator to the crate.
10. Carefully lift the lower cultivator out of the crate and set it on the floor in the upright position.

Section 1: Assembly & Set-up



3-Point Hitch Assembly

Figure 1-1

3-Point Hitch Assembly

Refer to Figure 1-1:

1. Remove 1/2" hex nuts (#3A), lock washers (#2) and carriage bolts (#1). Keep removed hardware for reuse.
2. Skip to step 5 if rear support channel (#10) is mounted in the lower center 3-point hitch holes in A-arms (#8) as shown.
3. If rear support channel (#1) is shipped mounted in the top A-arms holes, remove hex nut (#4), lock washer (#5), spacer (#6), and hex head bolt (#7). Keep removed hardware for reuse.
4. Reattach rear support channel (#10) to the lower center 3-point holes in A-arms (#8) as shown with hex head bolt (#7), spacer (#6), lock washer (#5), and hex nut (#4). Draw hex nut up snug, do not tighten at this time
5. Make sure A-arm (#8) with decals is located on the left hand side as shown. Attach A-arms (#8) to inside of gussets (#11) with hitch pins (#15), spring lock washers (#13), and hex nuts (#12) as shown. Draw hex nuts up snug, do not tighten at this time.
6. Remove hex nut (#3B), lock washer (#2), and hex head bolt (#9). Keep removed hardware for reuse.
7. Attach rear support channel (#10) to the back of the frame with 1/2" x 3 3/4" hex head bolt (#9), spring lock washer (#2), and hex nut (#3B). Draw hex nut up snug, do not tighten at this time.
8. Insert carriage bolts (#1) through gussets (#11) and A-arms (#8). Secure carriage bolts with spring lock washers (#2), and hex nuts (#3A). Draw hex nuts up snug, do not tighten at this time.
9. **Refer to hitch pin detail:** On the right-hand side, verify face of jam nut (#14) is 1 13/16" from center of linchpin hole. If needed, adjust jam nut to the correction distance.
10. Insert a drive punch into the linchpin hole (#16) and rotate hitch pin (#15) until linchpin hole is vertical.
11. Tighten 7/8"-14 hex nut (#12) to the correct torque for GR5 bolts
12. Repeat steps 9-11 for the left-hand side.
13. Tighten 1/2"-13 hex nuts (#3A & #3B) to the correct torque for GR5 bolts.
14. Tighten 7/8"-14 hex nuts (#12) to the correct torque for GR5 bolts.
15. Tighten 3/4"-10 hex nut (#4) to the correct torque for GR5 bolt (#7)



Section 1: Assembly & Set-up

Tractor Shutdown Procedure

The following are basic tractor shutdown procedures. Follow these procedures and any additional shutdown procedures provided in your tractor Operator's Manual before leaving the operator's seat.

1. Reduce engine speed and disengage power take-off if engaged.
2. Park tractor and implement on level, solid ground.
3. Lower implement to ground or onto non-concrete support blocks.
4. Put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.
5. Relieve all hydraulic pressure to auxiliary hydraulic lines.
6. Wait for all components to come to a complete stop before leaving the operator's seat.
7. Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.

Hook-up Field Cultivator

Refer to Figure 1-2 on page 9:



DANGER

To avoid serious injury or death:

Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to the hydraulics is off.



WARNING

To avoid serious injury or death:

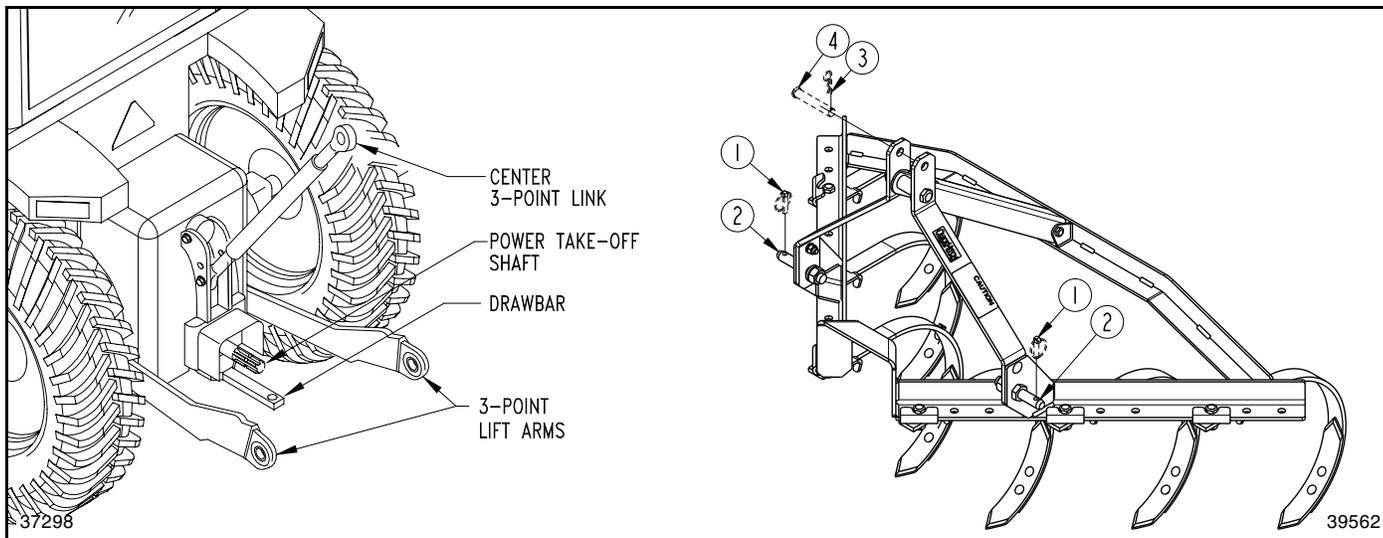
Lightweight tractors with rear attached implements may need weights added to the front to maintain steering control. Consult your tractor Operator's Manual to determine weight requirements and maximum limitations.

NOTE: Land Pride's Quick Hitch can be attached to the tractor to provide quick and easy 3-point hook-up and detachment. See your nearest Land Pride dealer to purchase a Quick Hitch.

NOTE: Linchpins (#1), upper center hitch pin (#4), and hairpin cotter (#3) are customer supplied.

A 3-point Category I hitch is required. The lower 3-point arms of the 3-point hitch must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose. Consult your tractor Operator's Manual for detailed instructions on how to stabilize your tractor's lower 3-point arms.

1. If hooking-up with a Quick Hitch, refer to the Quick Hitch Operator's Manual for detailed hook-up and operating instructions. Otherwise, continue with step 2 below.
2. Slowly back tractor up to the C-Tine Field Cultivator while using the tractor's 3-point control lever to align holes in the tractor's lower 3-point lift arms with hitch pins (#2) on the cultivator.
3. Shut tractor down according to "**Tractor Shutdown Procedure**" on page 8.
4. Attach lower 3-point lift arms to hitch pins (#2) and secure with customer supplied linchpins (#1).
5. Connect top center 3-point link to the upper hitch clevis with customer supplied hitch pin (#4). Secure hitch pin with customer supplied hairpin cotter (#3).
6. Return to the tractor and slowly operate tractor 3-point hydraulic control lever to slowly raise and lower the cultivator while checking for clearance between tractor tires, drawbar, and cultivator. Move or remove drawbar if it interferes with the cultivator.
7. Level the cultivator left to right and front to back. Refer to "**Level Cultivator**" on page 10.
8. Ensure lower 3-point lift arms are stabilized to prevent excessive side-to-side movement.



3-Point Hook-up & Unhook Field Cultivator
Figure 1-2

Unhook Field Cultivator

Refer to Figure 1-2:



DANGER

To avoid serious injury or death:

Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to the hydraulics is off.

1. See “**Long-Term Storage**” on page 14 when parking cultivator for long periods or at the end of the season.
2. Park tractor with cultivator on a flat, level, solid surface.
3. Lower cultivator down until cultivator blades are on the ground.
4. If unhooking from a Quick Hitch, follow instructions in the Quick Hitch Operator’s Manual. Otherwise, continue with step 5.
5. Shut tractor down according to “**Tractor Shutdown Procedure**” on page 8.
6. Remove hairpin cotter (#3) and clevis pin (#4).
7. Store top center 3-point link in tractor holder.
8. Reinstall clevis pin (#4) and hairpin cotter (#3) in upper clevis hitch for safe keeping.
9. Remove linchpins (#1).
10. Move tractor lower 3-point arms off of the cultivator’s lower 3-point hitch pins (#2). Return linchpins (#1) to hitch pins (#2) for safe keeping.
11. Return to the tractor and drive slowly away making sure tractor and lower 3-point arms are clear while pulling away.

Section 2: Adjustment

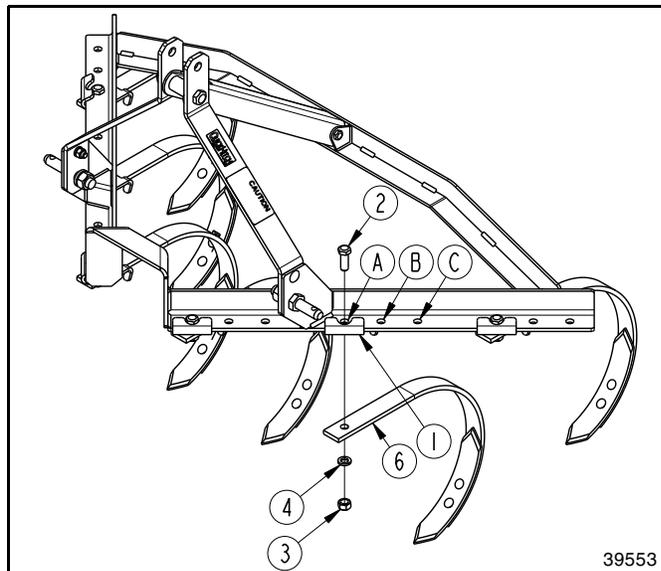
C-Tine Shank Spacing

Refer to Figure 2-1:

The cultivator is setup from the factory with C-tine shanks attached to holes “A” in the angle frame. The operator can move C-tine shanks to holes “B” or “C” as needed.

If readjusting shank spacing, make sure the shanks are symmetrical about the center of the frame. For example, if you move the second shank on the left side to hole “C”, you should also move the second shank on the right side to hole “C”.

1. On the left side, remove nut (#3), lock washer (#4), C-tine shank (#6), and hex head bolt (#2).
2. Slide left-hand tine support bracket (#1) to hole “A,” “B,” or “C” as needed and reattach C-tine (#6) with 5/8"-11 GR5 hex bolt (#2), lock washer (#4) and hex nut (#3). Tighten hex nut to the correct torque.
3. Repeat steps 1 & 2 for the same tine on the right-hand side of the cultivator.



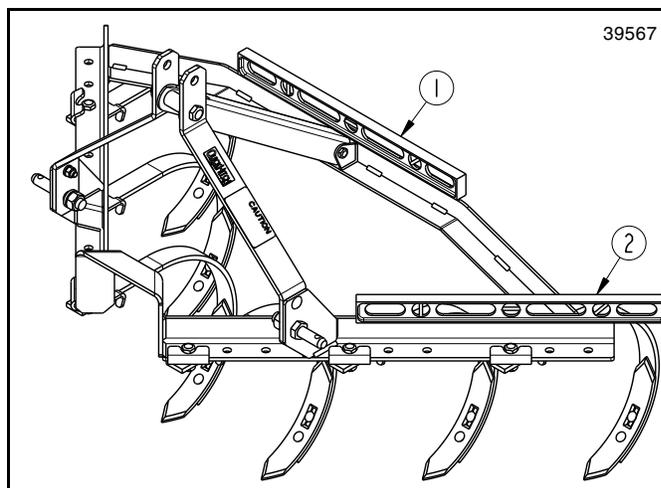
C-Tine Spacing
Figure 2-1

Level Cultivator

Refer to Figure 2-2:

NOTE: When leveling is complete, the cultivator should be parallel with the ground from front to back and side to side. If leveling is done on ground with a small incline, then use a tape measure to ensure the cultivator frame is parallel to the ground.

1. Shut tractor down according to “**Tractor Shutdown Procedure**” on page 8. Make sure the ground is level.
2. Place a level on the back of the cultivator as shown in position (#1).
3. Adjust one of the lower 3-point arms up or down as needed to level the cultivator left to right.
4. Move the level to position (#2) and adjust the center 3-point link to level the cultivator from front to back.
 - Shorten 3-point center link if the cultivator is low at the back.
 - Lengthen 3-point center link if the cultivator is high at the back.



C-Tine Spacing
Figure 2-2



Section 3: Operating Procedures

Startup Checklist

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the operation, transport, storage, and maintenance of the C-Tine Field Cultivator. Therefore, it is absolutely essential that no one operates the cultivator unless they are age 16 or older and have read, fully understood, and are totally familiar with the Operator’s Manual. Make sure the operator has paid particular attention to:

- **Important Safety Information**, page 1
- **Section 1: Assembly & Set-up**, page 6
- **Section 2: Adjustment**, page 10
- **Section 3: Operating Procedures**, page 11
- **Section 4: Maintenance**, page 13

Perform the following inspections before using your Field Cultivator.

Operating Checklist

✓	Check	Page
	Make sure all tractor guards & shields are in place & in good working condition.	None
	Follow hook-up instructions. Refer to “Section 1: Assembly & Set-up”	6
	All adjustments have been made and secured. Refer to “Section 2: Adjustment”.	10
	Operator has read and understands how to operate the C-Tine Field Cultivator. Refer to “Section 3: Operating Procedures”.	11
	Required maintenance has been completed. Refer to “Section 4: Maintenance”.	13
	Check cultivator initially and periodically for loose bolts and pins. Refer to “Torque Values Chart”.	18

Operator’s Responsibilities

DANGER

To avoid serious injury or death:

- Do not allow anyone near the tractor or implement while they are operating. Stop operation if bystanders are too close. They can be hit by flying projectiles, become entangled in the equipment, or ran over.
- Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to the hydraulics is off.

WARNING

To avoid serious injury or death:

- Allow only persons to operate this implement who have fully read and comprehended this manual, and who have been properly trained in the safe operation of this implement. Serious injury or death can result from the inability to read, understand, and follow instructions provided in this manual.
- Do not use implement to lift objects; to pull objects such as fence posts, stumps, etc; or to push objects. The unit is not designed or guarded for these uses.
- Never carry riders on the implement or tractor. Riders can obstruct the operator’s view, interfere with controls, be pinched by moving components, become entangled in rotating components, struck by objects, thrown about, fall off and be run over, etc.
- Make sure safety labels are in their proper location and are in good condition before operating the attached implement. Read and obey all instructions on the labels.
- Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the implement back into service.
- Do not alter implement or replace parts on the implement with other brands. Other brands may not fit properly or meet OEM (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the implement. Replace parts only with genuine OEM parts.
- Lightweight tractors with rear attached implements may need weights added to the front to maintain steering control. Consult your tractor Operator’s Manual to determine weight requirements and maximum limitations.
- Never make contact with underground utilities such as electrical power lines, gas lines, phone lines, etc. They can cause serious injury or death from electrocution, explosion, or fire. Always call 811 (USA) or local utility companies before digging so that they can mark the location of underground services in the area. For contact information, see Dig Safe in the “Important Safety Information” starting on page 1.

Transporting



WARNING

To avoid serious injury or death:

- *Select a safe ground speed that will allow adequate control of steering and stopping. Never exceed 20 mph (32 km/h) with attached equipment. Rough terrain requires a slower speed.*
 - *When traveling on public roadways, travel in such a way that faster moving vehicles may pass safely. Use hazard lights, clean reflectors, and a slow moving vehicle sign that is visible from the back to warn operators in other vehicles of your presence. Always comply with all federal, state, and local laws.*
1. Select a safe ground speed when transporting from one area to another. Maximum transport speed for the C-Tine Field Cultivator is 20 mph. **DO NOT EXCEED.**
 2. Be sure to reduce tractor ground speed when turning and leave enough clearance so the cultivator does not contact obstacles such as buildings, trees, or fences.
 3. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
 4. Shift tractor to a lower gear when traveling over rough or hilly terrain.

General Operating Instructions

By now you should have read the Operator's Manual, completed the Operator's Checklist, and properly attached your FC10 C-Tine Field Cultivator to your tractor. You are now ready to head to your work site. If you have not done so, you should check your work site for buried utility cables, pipelines, sprinkler heads, and other obstacles that you would not want to damage or encounter. You should also have removed wire, tree limbs, rocks, and other debris that can cause problems with your cultivator and tractor. Check the ground to make sure it is not too wet or mucky. The soil should be well drained and capable of being walked on without having soil stick to your shoes.

Cultivating will commence as soon as the unit touches the ground and the tractor begins moving forward. Ground conditions and type of finish you require will determine how deep you cultivate and spacing of cultivator shanks. If available, set the detent stop on your 3-point depth control lever to your preferred cultivating depth.

Your forward travel speed is determined by soil conditions and available tractor horsepower. Never try to backup with cultivator in the ground and when you reach the end of a pass, always pick the cultivator up before turning. Trying to turn sharply with the unit in the ground will cause extreme side loading on the shanks and may cause damage to the unit.

Achieving the desired effect may require a little experimentation in your given conditions. The soil is too wet if it is sticking to and building-up on your C-tine shanks and blades. Cultivating operations should be discontinued until the ground is dry and more workable.

Once you are finished using your cultivator, park it on a dry and level surface, clean it, and make it ready for the next use. With a little practice, you will be able to achieve excellent results from your Land Pride C-Tine Field Cultivator.

See "**Specifications and Capacities**" on page 15 and "**Features & Benefits**" on page 16 for additional information and performance enhancing options.

Section 4: Maintenance

General Maintenance Information

Proper servicing and adjustments are key to the long life of any implement. With careful inspection and routine maintenance, you can avoid costly downtime and repair.

Check all bolts and pins after using the cultivator for several hours and on a regular basis thereafter to ensure they are tight and secured. Replace worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride dealer.

! DANGER

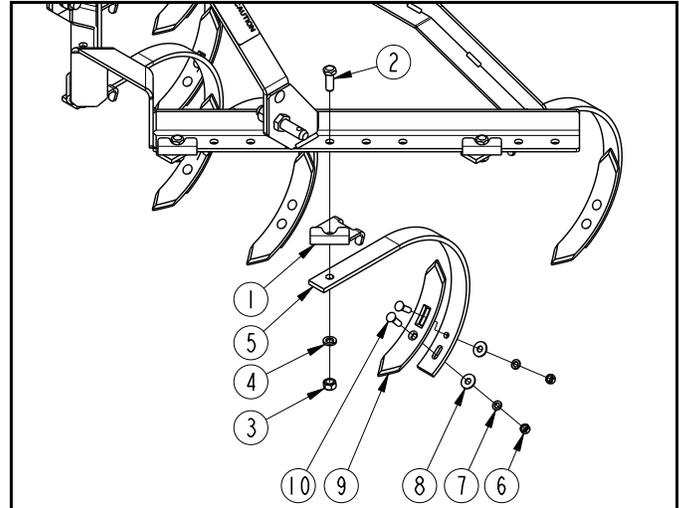
To avoid serious injury or death:

Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to the hydraulics is off.

! WARNING

To avoid serious injury or death:

- Allow only persons to perform maintenance on this implement who have been properly trained in its safe operation.
- Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.
- Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the implement back into service.
- Do not alter implement or replace parts on the implement with other brands. Other brands may not fit properly or meet OEM (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the implement. Replace parts only with genuine OEM parts.



39564

Item	Pt. No.	Description
6	803-015C	NUT HEX 7/16-14 PLT
7	804-014C	WASHER LOCK 7/16 PLT
8	804-204C	WASHER FLAT 7/16 USS PLT
9	820-617C	C-TINE BLADE
10	842-349C	PLOW 7/16-14X1 1/2 GR5

C-Tine Shank and Blade Maintenance
Figure 4-1

C-Tine Blades

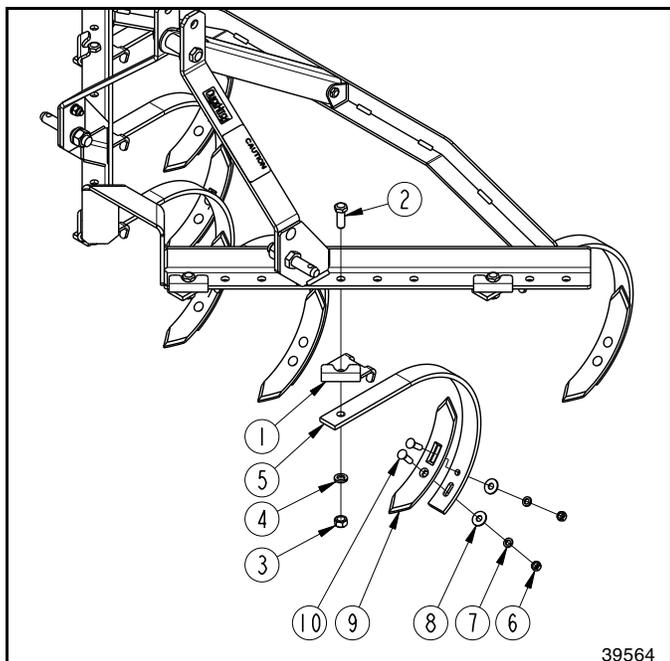
Refer to Figure 4-1:

NOTE: Rotate or replace worn C-tine blades (#9) before they become too short and can no longer protect the C-tine shanks (#5) against wear.

Inspect C-tine blades (#9), plow bolts (#10), flat washers (#8), lock washers (#7), and hex nuts (#6) for wear and replace when needed. Tine blades can be adjusted down as they wear. When out of adjustment, they can be rotated. Replace C-tine blades when both ends of the blades are worn excessively. It is best if all tine blades are adjusted, rotated, or replaced at the same time to ensure they are of equal length for digging in the ground. Rotate, adjust or replace tine blades as follows:

1. Remove nuts (#6), lock washers (#7), flat washers (#8), plow bolts (#10), and C-tine blades (#9).
2. If tine blades (#9) can be rotated, rotate them 180° and reinstall with plow bolts (#10), flat washers (#8), lock washers (#7), and hex nuts (#6). Tighten hex nuts to the proper torque.
3. If tine blades (#9) are worn out on both ends, discard old blades (#9), plow bolts (#10), flat washers (#8), lock washers (#7), and hex nuts (#6).
4. Install new blades (#9) with new plow bolts (#10), flat washers (#8), lock washers (#7), and hex nuts (#6). Tighten hex nuts to the proper torque.

Section 4: Maintenance



39564

Item	Pt. No.	Description
1	335-094D	LH TINE SUPPORT BRACKET (Shown)
1	335-102D	RH TINE SUPPORT BRACKET
2	802-053C	HHCS 5/8-11X1 3/4 GR5
3	803-021C	NUT HEX 5/8-11 PLT
4	804-022C	WASHER LOCK SPRING 5/8 PLT
5	820-616C	C-TINE SHANK

C-Tine Shank and Blade Maintenance
Figure 4-2

C-Tine Shanks

Refer to Figure 4-2:

Inspect C-tine shanks (#5) and tine support brackets (#1) for wear, fatigue, structural cracks, and distorted shape. Replace tine shanks and support brackets as needed.

1. If tine blade (#9) is reusable, remove tine blade from existing C-tine shank (#6). See “C-Tine Blades” on page 13 for detailed instructions.
2. Remove hex nut (#3), lock washer (#4), and hex head bolt (#2).
3. Discard C-tine shank (#5).
4. Inspect tine support bracket (#1) for damage. If needed, discard and replace tine support bracket with a new bracket.
5. Reattach new C-tine shank (#5) with existing or new tine support bracket (#1), 5/8"-11 x 1 3/4" GR5 hex head bolt (#2), lock washer (#4), and hex nut (#3). Tighten hex nuts to the correct torque.
6. Attach new or existing tine blade (#9) to the C-tine shank (#5). See “C-Tine Blades” on page 13 for detailed instructions.

Long-Term Storage

Clean, inspect, service, and make necessary repairs to the implement when storing it for long periods and at the end of the season. This will help to ensure the unit is ready for field use the next time you hook-up to it.

1. Clean off any dirt and grease that may have accumulated on the cultivator. Scrape off compacted dirt from C-tines and then wash surface thoroughly with a garden hose.
2. Check C-tines blades and attaching hardware for wear and replace if necessary. See “Section 4: Maintenance” on page 13.
3. Inspect for loose, damaged, or worn parts and adjust or replace as needed.
4. Clean and apply a coat of paint to the land-polished surfaces and scratches on the cultivator to minimize oxidation while in storage. Ask your Land Pride dealer for aerosol touch-up paint. They are also available in touch-up bottles with brush, quarts, and gallon sizes by adding TU, QT, or GL to the end of the aerosol part number.

Land Pride Touch-up Paint

Part No. Part Description

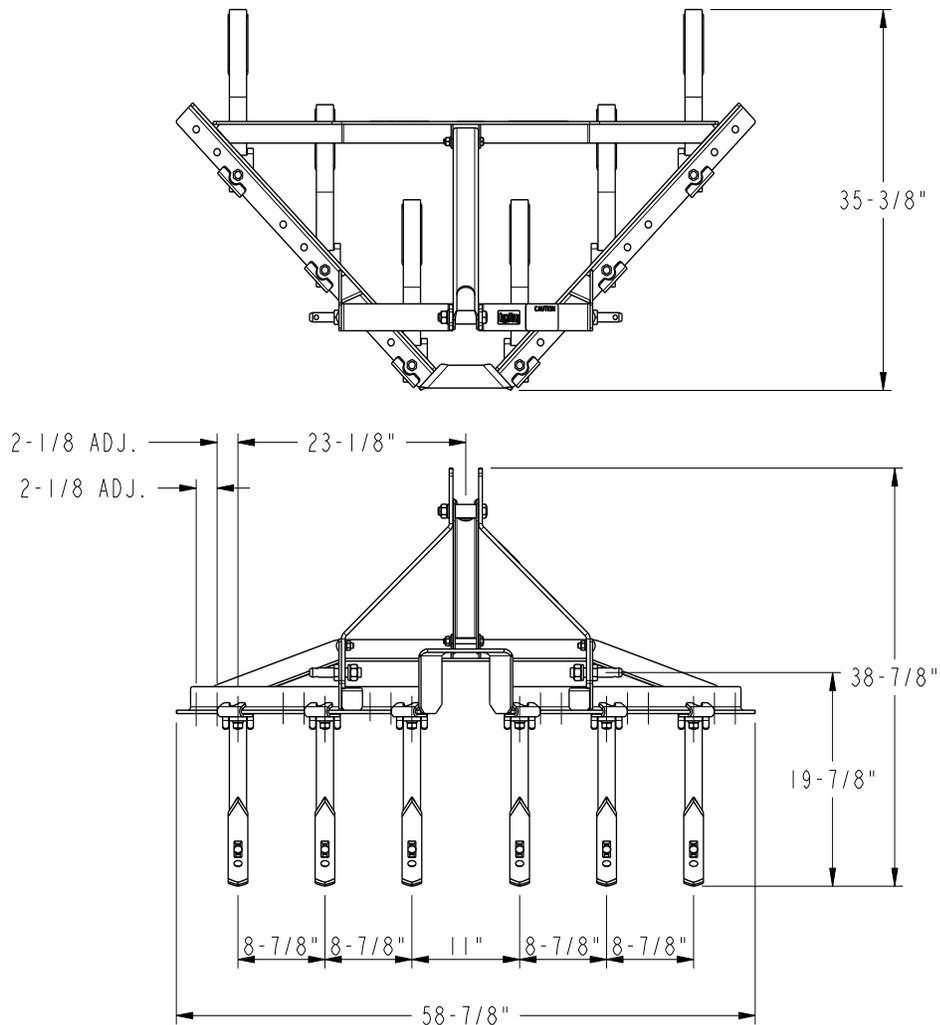
821-066C	PAINT ORANGE SPRAY CAN
821-070C	PAINT GP GLOSS BLACK SPRAY CAN

5. Replace all damaged or missing guarding & decals.
6. Store cultivator on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer cultivator life.
7. Follow all unhooking instructions on page 9 when disconnecting tractor from cultivator.



Model Specs

Specifications & Capacities	
Model Number	FC10
Tractor horsepower	Maximum 45 hp
Hitch type	Cat I 3-point & Cat I Quick Hitch compatible
Frame construction	Formed steel angle
C-channel support brace	Formed out of heavy plate
C-tine support bracket	1/4" Formed plate holds C-tines straight
C-tine shanks	Heat treated 3/8" spring steel Shanks can be adjusted 4 1/4" horizontally in 2 1/8" increments (See illustration below)
C-tine spacing	Adjustable
C-tine blades	Adjustable up to 7/8" along the shank curvature Reversible by rotating them 180° on the C-tine shanks Replaceable without replacing C-tine shanks



39565



FC10

Features	Benefits
Cat. I hitch	Fits tractors up to 45 horsepower.
Quick Hitch compatible	Makes it easy to hook-up to the cultivator.
Heavy-duty angle frame with C-channel support brace	Angle frame stands up to rugged treatment. C-channel support brace helps stiffens the angle frame.
Stabilizing C-tine support brackets	Holds C-tine shanks straight.
Adjustable C-tine shanks	Shanks can be adjusted to operator preference. Shanks can be adjusted to clear row crop such as sweet corn.
High drawbar clearance	Allows the cultivator to operate in the ground without moving or removing the drawbar.



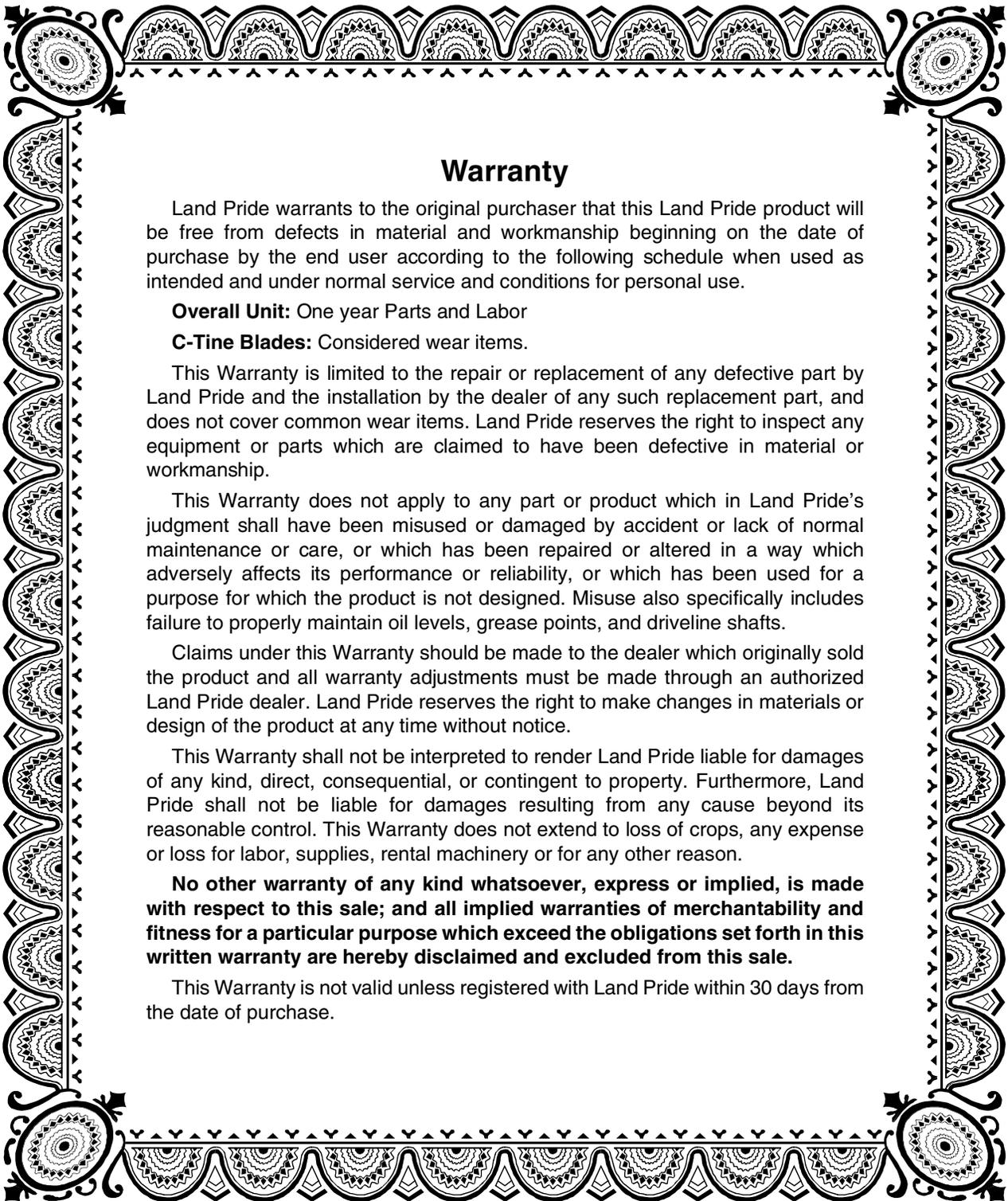
Troubleshooting Chart

Problem	Cause	Solution
<p>Tractor cannot pull the cultivator.</p>	<p>Tractor horsepower is too small.</p>	<p>Attach cultivator to a higher horsepower tractor.</p>
	<p>Ground is too wet causing tractor tires to slip and not allowing the soil to fracture into smaller particles.</p>	<p>Never work wet soil that wants to stick together. Wait for the ground to dry enough for the soil to fracture into smaller parts.</p>
	<p>Ground is too dry.</p>	<p>Wait until ground is softened with moisture. Dry soil won't fracture easily.</p>
	<p>Ground is too hard to cultivate even when soil is moist.</p>	<p>Break soil with equipment design to fracture the soil such as a plow, disk, or scarifier.</p>
	<p>C-tine blades are dull.</p>	<p>Rotate or replace C-tine blades.</p>
	<p>Cultivating too deep.</p>	<p>Raise cultivator up until tractor can pull the unit. If needed, make several passes over the ground at the shallow depth.</p>
<p>Tractor tires slip excessively.</p>	<p>Tractor weight is too light.</p>	<p>Use a larger tractor that is heavier.</p>
		<p>Increase 3-point draft at the control lever.</p>
		<p>Add weights to the rear wheels.</p>
<p>Cultivating too deep.</p>	<p>Set cultivator at a shallower depth.</p>	
<p>Clods are too hard and won't fracture into smaller particles.</p>	<p>Clods are too dry to fracture easily.</p>	<p>Wait for moisture to make the clods moist. Note: Do not work ground while the soil and clods are sticky wet.</p>
	<p>Soil was worked too wet causing soil compaction.</p> <p>Note: Hard clods due to soil compaction reduce void spaces for holding water, does not allow good soil aeration, root penetration, and crop yields.</p>	<p>Check soil moisture content. Dig a small amount of soil and squeeze it in your hand. If the soil crumbles, it is ready to work. Give the soil time to dry if it forms a ball that bounces in your hand without breaking apart.</p>
		<p>Try breaking the hard clods with a disk or other suitable cultivating tool to make the clods smaller.</p>
		<p>Allow time for winter freezing and thawing to change the soil structure back into workable soil that will fracture easily.</p>



Torque Values Chart for Common Bolt Sizes													
Bolt Size (inches)	Bolt Head Identification						Bolt Size (Metric)	Bolt Head Identification					
	 Grade 2		 Grade 5		 Grade 8			 Class 5.8		 Class 8.8		 Class 10.9	
in-tpi ¹	N · m ²	ft-lb ³	N · m	ft-lb	N · m	ft-lb	mm x pitch ⁴	N · m	ft-lb	N · m	ft-lb	N · m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12	M 5 X 0.8	4	3	6	5	9	7
1/4" - 28	8.5	6	13	10	18	14	M 6 X 1	7	5	11	8	15	11
5/16" - 18	15	11	24	17	33	25	M 8 X 1.25	17	12	26	19	36	27
5/16" - 24	17	13	26	19	37	27	M 8 X 1	18	13	28	21	39	29
3/8" - 16	27	20	42	31	59	44	M10 X 1.5	33	24	52	39	72	53
3/8" - 24	31	22	47	35	67	49	M10 X 0.75	39	29	61	45	85	62
7/16" - 14	43	32	67	49	95	70	M12 X 1.75	58	42	91	67	125	93
7/16" - 20	49	36	75	55	105	78	M12 X 1.5	60	44	95	70	130	97
1/2" - 13	66	49	105	76	145	105	M12 X 1	90	66	105	77	145	105
1/2" - 20	75	55	115	85	165	120	M14 X 2	92	68	145	105	200	150
9/16" - 12	95	70	150	110	210	155	M14 X 1.5	99	73	155	115	215	160
9/16" - 18	105	79	165	120	235	170	M16 X 2	145	105	225	165	315	230
5/8" - 11	130	97	205	150	285	210	M16 X 1.5	155	115	240	180	335	245
5/8" - 18	150	110	230	170	325	240	M18 X 2.5	195	145	310	230	405	300
3/4" - 10	235	170	360	265	510	375	M18 X 1.5	220	165	350	260	485	355
3/4" - 16	260	190	405	295	570	420	M20 X 2.5	280	205	440	325	610	450
7/8" - 9	225	165	585	430	820	605	M20 X 1.5	310	230	650	480	900	665
7/8" - 14	250	185	640	475	905	670	M24 X 3	480	355	760	560	1050	780
1" - 8	340	250	875	645	1230	910	M24 X 2	525	390	830	610	1150	845
1" - 12	370	275	955	705	1350	995	M30 X 3.5	960	705	1510	1120	2100	1550
1-1/8" - 7	480	355	1080	795	1750	1290	M30 X 2	1060	785	1680	1240	2320	1710
1-1/8" - 12	540	395	1210	890	1960	1440	M36 X 3.5	1730	1270	2650	1950	3660	2700
1-1/4" - 7	680	500	1520	1120	2460	1820	M36 X 2	1880	1380	2960	2190	4100	3220
1-1/4" - 12	750	555	1680	1240	2730	2010	¹ in-tpi = nominal thread diameter in inches-threads per inch ² N · m = newton-meters ³ ft-lb= foot pounds ⁴ mm x pitch = nominal thread diameter in millimeters x thread pitch						
1-3/8" - 6	890	655	1990	1470	3230	2380							
1-3/8" - 12	1010	745	2270	1670	3680	2710							
1-1/2" - 6	1180	870	2640	1950	4290	3160							
1-1/2" - 12	1330	980	2970	2190	4820	3560							

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.
 All locknuts or lubricated fasteners: Use 75% of torque value. (i.e. 1/2"-13 GR5 = 76 ft-lb; 75% of 76 or .75 x 76 = 57 ft-lb)



Warranty

Land Pride warrants to the original purchaser that this Land Pride product will be free from defects in material and workmanship beginning on the date of purchase by the end user according to the following schedule when used as intended and under normal service and conditions for personal use.

Overall Unit: One year Parts and Labor

C-Tine Blades: Considered wear items.

This Warranty is limited to the repair or replacement of any defective part by Land Pride and the installation by the dealer of any such replacement part, and does not cover common wear items. Land Pride reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

This Warranty does not apply to any part or product which in Land Pride's judgment shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product is not designed. Misuse also specifically includes failure to properly maintain oil levels, grease points, and driveline shafts.

Claims under this Warranty should be made to the dealer which originally sold the product and all warranty adjustments must be made through an authorized Land Pride dealer. Land Pride reserves the right to make changes in materials or design of the product at any time without notice.

This Warranty shall not be interpreted to render Land Pride liable for damages of any kind, direct, consequential, or contingent to property. Furthermore, Land Pride shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to loss of crops, any expense or loss for labor, supplies, rental machinery or for any other reason.

No other warranty of any kind whatsoever, express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale.

This Warranty is not valid unless registered with Land Pride within 30 days from the date of purchase.

IMPORTANT: The Online Warranty Registration should be completed by the dealer at the time of purchase. This information is necessary to provide you with quality customer service.

Model Number _____

Serial Number _____



Corporate Office: P.O. Box 5060
Salina, Kansas 67402-5060 USA
www.landpride.com
