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.

<table>
<thead>
<tr>
<th>Model Number</th>
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<tbody>
<tr>
<td>Serial Number</td>
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<tr>
<td>Machine Height</td>
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<td>Machine Weight</td>
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<td>Delivery Date</td>
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<tr>
<td>First Operation</td>
<td></td>
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<tr>
<td>Accessories</td>
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</tbody>
</table>

Dealer Contact Information

Name: ____________________________
Street: __________________________
City/State: ______________________
Telephone: _______________________
Email: __________________________

California Proposition 65

WARNING: Cancer and reproductive harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)
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*Printed in the United States of America.*
See previous page for Table of Contents.
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, or have the manuals read to them, 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 the 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 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 tractor and implement while backing up to implement.
▲ Keep hands, feet, and clothing away from power-driven parts.
▲ While transporting and operating equipment, watch out for objects overhead and along side 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 an area where children normally do not play. When needed, secure attachment against falling with support blocks.

Look for the Safety Alert Symbol
The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, 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. The signal words 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.

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 switch 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.
▲ Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.
Listed below are common practices that may or may not be applicable to the products described in this manual.

**Tire Safety**

- Tire changing can be dangerous and must be performed by trained personnel using the correct tools and equipment.
- 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.

**Transport 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 tie downs and chains.
- Sudden braking can cause a towed trailer to swerve and upset. Reduce speed if towed trailer is not equipped with brakes.
- Avoid contact with any overhead utility lines or electrically charged conductors.
- Always drive with load on end of loader arms low to the ground.
- Always drive straight up and down steep inclines with heavy end of a tractor with loader attachment on the “uphill” side.
- Engage park brake when stopped on an incline.
- Maximum transport speed for an attached equipment is 20 mph. 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.
- As a guideline, use the following maximum speed weight ratios for attached equipment:
  - 20 mph when weight of attached equipment is less than or equal to the weight of machine towing the equipment.
  - 10 mph when weight of attached equipment exceeds weight of machine towing equipment but not more than double the weight.
- IMPORTANT: Do not tow a load that is more than double the weight of the vehicle towing the load.

**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 tow the implement.

**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 hydraulic 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 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 phone.

**Use Safety Lights and Devices**
- Slow moving tractors, skid steers, self-propelled machines, and towed equipment can create a hazard when driven on public roads. They are difficult to see, especially at night. Use the Slow Moving Vehicle sign (SMV) when on public roads.
- Flashing warning lights and turn signals are recommended whenever driving on public roads.

**Avoid Underground Utilities**
- Dig Safe, Call 811 (USA).
  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.

**Wear Personal Protective Equipment (PPE)**
- Wear protective clothing and equipment appropriate for the job such as safety shoes, safety glasses, hard hat, 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 equipment safely requires the operator’s full attention. Avoid wearing headphones while operating equipment.

**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.

**Avoid High Pressure Fluids Hazard**
- Escaping fluid under pressure can penetrate the skin causing serious injury.
- Before disconnecting hydraulic lines or performing work on the hydraulic system, be sure to release all residual pressure.
- Make sure all hydraulic fluid connections are tight 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, see a doctor familiar with this type of injury immediately. Any fluid injected into the skin or eyes must be treated within a few hours or gangrene may result.

**Keep Riders Off Machinery**
- Never carry riders on 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 tractor or implement to lift or transport riders.
Safety Labels

Your Powered Ditcher comes equipped with all safety labels in place. They were 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.

![Safety Labels Diagram]

818-130C
Caution: 540 rpm

818-552C
Caution: Rotating Driveline

818-205C
Danger: Moving Parts
Important Safety Information

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DT35 Powered Ditcher 324-099M

12/10/18

818-719C
Caution: General Instructions

838-295C
Danger: Rotating Blade (2 Places)

838-287C
Danger: Thrown Object
Danger: Power Take-Off Guard Missing

818-543C

DANGER

GUARD MISSING
When this is visible
DO NOT OPERATE
ENTANGLEMENT HAZARD
will cause Serious Injury or Death

818-543C
Land Pride welcomes you to the growing family of new product owners. This Powered Ditcher 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 ditcher.

Application
The DT35 Powered Ditcher is a versatile tool to use in many water control applications. The 16" or 18" diameter impeller leaves a clean and sculptured trough to keep water flowing freely from unwanted areas. The ditcher makes it simple to clean water ditches along roadsides and drains standing water away from crops in farm fields.

See “Specifications & Capacities” on page 21 and “Features & Benefits” on page 22 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 the direction the machine will operate while in use unless otherwise stated.

Definitions

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.

Further Assistance
Your dealer wants you to be satisfied with your new Powered Ditcher. 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
lpservicedept@landpride.com
Tractor Requirements
This Powered Ditcher is designed with a Category I & II 3-point hitch and 540 rpm rear power take-off (power take-off) speed. Tractor horsepower rating should be between 30 & 60 power take-off horsepower. Tractors outside this horsepower range must not be used.

**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 proper weight requirements and maximum weight limitations.
- Your ditcher must be mounted only to 30 to 60 horsepower tractors with Cat. I or II 3-point hitch. Tractors below this range are under powered and tractors above this range may damage the ditcher and cause loss of control.

Tractor Hook-Up
Refer to Figure 1-1:

**DANGER**
To avoid serious injury or death:
A crushing hazard exists while hooking-up and unhooking implement. Keep people and animals away while backing-up to implement or pulling away from implement. Do not operate hydraulic controls while a person or animal is directly behind the power machine or near the implement.

**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:** Operator can chose to insert hitch pins (#6) in upper clevis holes “E” or lower clevis holes “F”. The lower clevis holes “F” should be used to raise ditcher higher when loading unit on a trailer.

1. Slowly back tractor up to ditcher while using tractor’s 3-point hydraulic control lever to align lower arm hitch holes with either clevis holes (“E” or “F”) and Cat. I or Cat. II hook-up clevis.
2. Engage tractor park brake, shut tractor engine off, and remove key before dismounting from tractor.
3. Attach lower lift arms to the ditcher clevises with hitch pins (#6). Secure hitch pins with linchpins (#5).
4. Connect top center link to upper clevis with customer supplied 3/4" clevis pin (#4) and hairpin cotter (#9). Customer supplied bushing (#8) should be included if attaching ditcher with a Cat. II 3-point hitch.
5. Ensure that the lower hitch arms are blocked to prevent excessive side movement.

Leveling The Powered Ditcher
Refer to Figure 1-1:
1. From the tractor’s seat, slowly operate 3-point controls to raise parking stands off the ground several inches.
2. Manually adjust one of the two lower lift arms up or down to level the ditcher from left to right.
3. Manually adjust length of center 3-point link to tilt front of ditcher down 2° to 5°. For more details, see “Leveling And Tilt Adjustment” on page 14.

Driveline Installation

**DANGER**
To avoid serious injury or death:
- Do not engage power take-off while hooking-up or unhooking the driveline, or while someone is standing near the driveline. A person’s body and/or clothing can become entangled in the driveline.
All guards and shields must be installed and in good working condition. Loose clothing caught on rotating components can pull a person into the machinery. Hands and other body extremities can become entangled in the machinery.

Do not use a power take-off adapter. The adapter will increase strain on the tractor’s power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor’s power take-off shield.

**WARNING**
To avoid serious injury or death:
Always place tractor in park or set park brake, shut tractor off, remove switch key, and wait for all moving parts to stop before dismounting tractor.

**CAUTION**
To avoid minor or moderate injury:
Some tractors are equipped with two power take-off speeds. Do not exceed 540 rpm power take-off speed or equipment breakage may result.

An additional driveline may be required if the Powered Ditcher is attached to more than one tractor.

**IMPORTANT:** The driveline must be lubricated before putting it into service. Refer to “Lubrication” on page 20.

**IMPORTANT:** The tractor’s power take-off shaft and ditcher drive shaft must be aligned and level with each other during installation of driveline. This alignment is the shortest distance between the two shafts.

Refer to Figure 1-1 on page 8:
1. Park tractor on a level surface. Slowly engage tractor 3-point lift lever to raise ditcher until ditcher drive shaft is in line (level) with tractor power take-off shaft.
2. Support ditcher at this height with support jacks or blocks to keep ditcher from drifting down.
3. Place gear selector in park, set park brake, shut tractor off, and remove switch key.
4. Remove locknuts (#3) and bolts (#1) from shearbolt end of inner driveline (#7).
5. Slide yoke of driveline over ditcher drive shaft until bolt holes in yoke align with groove in drive shaft. Insert, from opposite sides, the removed bolts (#1) and secure with existing locknuts (#3). Tighten locknuts to the correct torque.
6. On the other end of driveline, pull back on driveline yoke collar (#2) and push driveline yoke onto tractor power take-off shaft. Release pull collar and continue to push driveline yoke forward until pull collar locks in place.
7. Move driveline yokes back and forth several times to make sure driveline yokes are securely fastened. Refasten any end that is loose.

**Check Driveline Collapsible Length**

**IMPORTANT:** A driveline that is too long can bottom out causing structural damage to tractor and ditcher. Always check driveline collapsed length during initial setup, when connecting to a different tractor, and when alternating between using a Quick-Hitch and a standard 3-point hitch. More than one driveline may be required to fit all applications.

Refer to Figure 1-2:
1. Make sure driveway is properly installed and level before checking driveline collapsible length. (Refer to “Driveline Installation” on page 8 if needed.)
2. With driveway level, measure 1" (“B” dimension) back from universal joint shield to end of outer driveline shield as shown in Figure 1-2. If measurement is less than 1", then shorten driveline using instructions provided below.

**Driveline Shortening**

Refer to Figure 1-2:
1. Un-hook driveline from tractor power take-off shaft and pull outer and inner drivelines apart.
2. Reattach outer driveline to tractor power take-off shaft. Pull on inner and outer drivelines to be sure universal joints are properly secured.
3. Hold inner and outer drivelines parallel to each other:
   a. Measure 1" (“B” dimension) back from outer driveline universal joint shield and make a mark at this location on the inner driveline shield.
   b. Measure 1" (“B” dimension) back from the inner driveline universal joint shield and make a mark at this location on the outer driveline shield.
4. Remove driveline from tractor and gearbox shafts.
5. Measure from end of inner shield to scribed mark (“X” dimension). Cut off inner shield at the mark. Cut same amount off the inner shaft (“X1” dimension).
6. Measure from end of outer shield to scribed mark (“Y” dimension). Cut off outer shield at the mark. Cut same amount off the outer shaft (“Y1” dimension).
7. Remove all burrs and cuttings.
8. Continue with “Check Driveline Maximum Length” on page 10.

**Check Driveline Maximum Length**

*Refer to Figure 1-3:*

Driveline maximum allowable length, when fully extended, must have a minimum overlap of profile tubes by not less than 1/2 the free length with both inner and outer profile tubes being of equal length.

![Diagram of driveline maximum length](image)

**Refer to Figure 1-4:**

1. If not done, un-hook driveline from tractor and ditcher shafts and pull outer and inner drivelines apart.
2. Measure and record “Free Length” of inner and outer profiles as shown in Figure 1-3.
3. Apply multi-purpose grease to the inside of the outer profile and reassemble the two profiles.
4. Move driveline halves together until profile tubes overlap by 1/2 the “Free Length”. Measure and record “Maximum Allowable Length” as shown in Figure 1-3.
5. Reattach inner driveline yoke to gearbox shaft and outer driveline yoke to tractor’s power take-off shaft.
6. The driveline should now be moved back and forth to ensure that both ends are secured. Reattach any end that is loose.

**Check Driveline Interference**

*Refer to Figure 1-4:*

1. Start tractor and raise Powered Ditcher just enough to raise parking stands off the ground.
2. Remove wire retaining pins (#3) and catch wire retainer over end of pin.

![Diagram of parking stand](image)

**Refer to Figure 1-5:**

**WARNING**

To avoid serious injury or death:
A rotating driveline must not exceed an angle of 25 degrees up or down, and never engage a driveline while at an angle exceeding 25 degrees up or down. The driveline can break and send projectiles.

**IMPORTANT:** Avoid premature driveline damage. A driveline that is operating must not exceed an angle of 25 degrees up or down while operating 3-point lift.

4. Slowly engage tractor hydraulic 3-point control lever to lower ditcher while checking for sufficient drawbar clearance. Move drawbar ahead, aside, or remove if required.
5. Raise and lower implement to find maximum extended driveline length. Check to make certain driveline does not exceed maximum allowable length and 25° up or down.
6. If needed, set tractor 3-point lift height to keep driveline from exceeding the maximum allowable length and 25° up.

![Diagram of driveline movement during operation](image)
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 Powered Ditcher. Therefore, it is absolutely essential that no one operates the ditcher 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**, pages 1 to 6
- **Section 1: Assembly & Set-Up**, page 8
- **Section 2: Operating Instructions**, page 11
- **Section 3: Adjustments**, page 14
- **Section 4: Maintenance & Lubrication**, page 16

Perform the following inspections before using your Powered Ditcher.

### Operating Checklist

<table>
<thead>
<tr>
<th>Check</th>
<th>Page</th>
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<tr>
<td>Check chain tension.</td>
<td>14</td>
</tr>
<tr>
<td>Refer to “Drive Chain Take-up”.</td>
<td></td>
</tr>
<tr>
<td>Check oil level in chaincase.</td>
<td>20</td>
</tr>
<tr>
<td>Refer to “Chain Case Lubrication”.</td>
<td></td>
</tr>
<tr>
<td>Check that all plugs have been replaced properly in chaincase.</td>
<td>20</td>
</tr>
<tr>
<td>Check that all bolts and nuts are tight.</td>
<td></td>
</tr>
<tr>
<td>Be certain all guards and shields are in place and secured.</td>
<td></td>
</tr>
<tr>
<td>Grease driveline shaft and all other grease fittings.</td>
<td>20</td>
</tr>
<tr>
<td>Refer to “Lubrication”.</td>
<td></td>
</tr>
</tbody>
</table>

### Safety Information

#### DANGER
To avoid serious injury or death:

- Do not engage power take-off while hooking-up or unhooking the driveline, or while someone is standing near the driveline. A person’s body and/or clothing can become entangled in the driveline.
- All guards and shields must be installed and in good working condition while operating the implement.
- Tractor power take-off shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid driveline entanglement and projectiles flying off of the driveline.
- Make certain driveline yokes are securely fastened at each end. A loose yoke can work free allowing the driveline to rotate uncontrollably causing implement damage and bodily injury or death to anyone nearby.

#### WARNING
To avoid serious injury or death:

- Allow only persons to operate this implement who have fully read and comprehended this manual, who have been properly trained in the safe operation of this implement, and who are age 16 or older. Serious injury or death can result from the inability to read, understand, and follow instructions provided in this manual.
- Never operate ditcher with bystanders within several hundred feet or in the raised position. The ditcher can throw object at high speeds resulting in injury or death.
- Never clean impeller with power take-off engaged. Keep hands, feet, hair and clothing away from rotating impeller blades. A person’s body and/or clothing can become entangled or sheared off in the impeller resulting in serious injury or death.
- Always place tractor in park or set park brake, shut tractor off, remove switch key, and wait for all moving parts to stop before dismounting tractor.
- Hydraulic fluid under high pressure can penetrate the skin and/or eyes causing a serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for leaks. A doctor familiar with this type of injury must treat the injury within a few hours or gangrene may result. DO NOT DELAY.
- Do not operate ditcher with out-of-balance blades, excessively worn blades, or with excessively worn blade bolts. Such blades can break loose at high speeds causing serious injury or death. Replace all four blades at the same time.
- Never carry riders on the implement or power machine. Riders can obstruct the operator’s view, interfere with control of the equipment, be pinched by moving components, become entangled in rotating components, be struck by objects, be thrown or fall from the equipment, etc.
- A rotating driveline must not exceed an angle of 25 degrees up or down, and never engage a driveline while at an angle exceeding 25 degrees up or down. The driveline can break and send projectiles.
- 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.
- Do not use implement to tow other equipment unless it is designed with a tow hitch. Doing so can result in loss of control and damage the equipment.
- Do not operate a broken or bent driveline. Such a driveline will break apart while rotating at high speeds and can cause serious injury or death. Always remove the implement from use until the damaged driveline can be repaired or replaced.
**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. If in doubt, call 811 (USA) 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.**

**CAUTION**

To avoid minor or moderate injury:

Some tractors are equipped with two power take-off speeds. Do not exceed 540 rpm power take-off speed or equipment breakage may result.

**IMPORTANT:** Do not use ditcher as a grinder of wood stumps, concrete, etc. Doing so may severely damaged as the unit as it is not designed for this application.

**Transporting**

**CAUTION**

To avoid minor or moderate injury:

When traveling on public roads whether at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. Comply with all federal, state, and local laws.

**IMPORTANT:** Always disengage power take-off before raising ditcher to transport position.

1. When raising the ditcher to transport, be sure that the driveline does not contact tractor or implement and the parking stand is pined in the fully up position.
2. Be sure to reduce tractor ground speed when turning. Leave enough clearance so that the ditcher does not contact obstacles such as buildings, trees, or fences.
3. Select a safe ground travel speed when transporting from one area to another. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
4. When traveling over rough or hilly terrain, shift tractor to a lower gear.

**Operating Instructions**

1. Operate with 540 rpm power take-off tractor.
2. Engage power take-off at approximately 200 rpm and slowly increase to 540 power take-off rpm.
3. Ditching should not be done in wet conditions as soil will stick to the blades and reduce the digging ability of the ditcher.
4. **DO NOT** make sharp turns or attempt to back up while ditcher is in the ground.
5. **DO NOT** engage power take-off with machine in the fully raised position.
6. **DO NOT** drop 3 point hitch. Lower the Powered Ditcher slowly to the ground.
7. Ground speed should be between 3 and 5 mph for normal conditions. Under extreme rocky conditions ground speed may have to be reduced for satisfactory performance. In general, the slower the ground speed the better job.
8. Proper operating depth and ground speed are interrelated and performance of the Powered Ditcher will improve with operator experience.
9. Periodically check for foreign objects wrapped around the blades and remove them after disengaging power take-off, turning off tractor, remove ignition key, and wait for blades to come to a complete stop before dismounting from tractor.
General Operating Instructions

Now that you have familiarized yourself with the Operator’s Manual, completed the Operator’s Checklist, properly attached your Powered Ditcher to your tractor and adjust the angle of tilt correctly, you are almost ready to begin using your Land Pride DT35 Powered Ditcher.

It is now time to do a running operational safety check. If at any time during this safety check if you detect a malfunction in either the Powered Ditcher or tractor, shut tractor off immediately, remove switch key, and make necessary repairs or adjustments before continuing on.

Make sure the tractor’s park brake is engaged, the tractor’s power take-off is disengaged, the Powered Ditcher is slightly off of the ground and the power shaft is not in a bind. Start the tractor and then back the tractor throttle off until the engine is at low idle. With the tractor running at an idle speed, make sure that the rear hydraulic control arms will lower the Powered Ditcher from transport to working position and back without putting the power shaft into a bind. Again, lift the Powered Ditcher slightly off of the ground and raise the engine rpm slightly. Engage the power take-off drive and check to make sure everything is running smoothly. If not, safely shut off the tractor down to make necessary corrections. If everything is in proper working condition, you are ready to move to the work site.

You should inspect the area where you intend to work making sure that there are no obvious debris, large rocks, or other materials that are in your working path. You will also want to make sure that there are no people, animals, pets, valuable property, and/or equipment in the immediate vicinity that could be harmed by flying rocks, dirt, or debris once you engage the Powered Ditcher.

If you have not already set the depth controlling skid shoe to the desired depth, you should set the tractor’s park brake, shut tractor engine off, remove switch key, and then make that setting.

You are now ready to begin operation. Make sure the unit is lifted just barely off of the ground, raise the tractor engine rpm slightly above idle and engage the power take-off. The best ditching performance is usually achieved at forward speeds of approximately 3 to 5 mph, so make the proper gear selection and then raise engine rpm to full power take-off speed. Begin forward motion while gently lowering the Powered Ditcher into working position. You will immediately begin to see a generous stream of dirt being rapidly ejected off to the left side.

The dirt will usually be ejected outward and will spread evenly over the ground 20’ to 50’ out. After you have traveled approximately 50’, it is a good idea to lift the Powered Ditcher out of working position or soil contact, safely shut your equipment down, and go back to inspect the results. Then make required adjustments before continuing on.

If your ground conditions are extremely hard, you will find the ripper attachment extremely helpful. If your ground conditions are too wet, you shouldn’t run at all until drier conditions prevail.

Remember to look back often. With a little practice you will gain the required experience you need to help you achieve the desired results you expect from your Land Pride DT35 Powered Ditcher.

When you are done ditching, need to take a break, or just need to make a few adjustments to the Powered Ditcher, always remember to do the following:

- Raise the Powered Ditcher up and out of soil contact
- Reduce the tractor’s engine rpm and disengage the power take-off
- Stop on level ground, set the park brake, turn engine off, and remove the switch key

See “Features and Benefits” section or “Product Specifications” for additional information and performance enhancing options.
Section 3: Adjustments

CAUTION
To avoid minor or moderate injury:
BEFORE making any adjustments, disengage power take-off, wait for blades to come to a complete stop, slowly lower ditcher to the ground, stop tractor engine, and remove switch key. DO NOT attempt to make adjustments while tractor is running.

NOTE: For standard torque values, refer to “Torque Values Chart” on page 24. Refer to “Additional Torque Values” at the bottom of the chart for exceptions to the standard torque values.

Leveling And Tilt Adjustment
Refer to Figure 3-1:
1. Manually adjust one of the two lower lift arms up or down to level the Powered Ditcher from left to right.
2. Manually adjust the length of the top center link to tilt the front of the ditcher down 2 to 5 degrees.

NOTE: Never tilt ditcher backward! This requires more horsepower and causes excessive wear on rear side of impeller.

Skid Shoe Adjustment
Refer to Figure 3-2:
Adjust skid shoe up or down as needed.
1. Pull hairpin cotter (#3) and clevis pin (#4).
2. Adjust adjustment bar (#2) up or down as needed until skid shoe (#1) is at the preferred height.
3. Replace clevis pin and hairpin cotter.

Drive Chain Take-up
Refer to Figure 3-3:
1. Unbolt and remove access cover (#2). Be careful not to damage gasket (#8) while removing cover.
2. Check roller chain for tightness by pressing on the chain between top and bottom sprockets. Chain should have approximately 1/2" movement.

IMPORTANT: Do Not over tighten drive chain. A tight chain will have high wear.
3. If chain is loose, loosen jam nut (#6) and turn chain adjusting bolt (#4) clockwise until excess chain slack is removed.
4. Tighten jam nut (#6) and recheck chain tension.

IMPORTANT: Do not reattach access cover plate without first having read instructions to “Attach Chain Case Access Cover” on page 16. Not following these instructions can damage the gasket.
5. Reattach access cover (#2) following instructions to “Attach Chain Case Access Cover” on page 16.
Impeller Blade Adjustment
Refer to Figure 3-4:
Each ditcher blade needs to be rotated blades wear. Replace the ditcher blade after all its four corners are worn out. Rotate a ditcher blade to one of its four blade positions as follows:

- First blade position is with ditcher blades (#4) mounted with surface “A” up as shown in Figure 3-4.
- Second position is with blades rotated 180° clockwise and reattached to impeller with surface “A” still up.
- Third position is with blades rotated 180° upside down and reattached to impeller with surface “B” up.
- Fourth position is with blades rotated 180° clockwise and reattached to impeller with surface “B” still up.

**WARNING**
To avoid serious injury or death:
Do not operate ditcher with out-of-balance blades. Make certain all blades are installed using the same mounting holes for either 16”diameter impeller or 18”diameter impeller.

**IMPORTANT:** Fasten blades to Impeller using holes “C” for 16” diameter impeller and holes “D” for 18” diameter impeller.

1. Remove hex flange locknuts (#3) and Carriage bolts (#2).
2. Rotate blades to one of the four position outlined above and reattach with 1/2”-13 x 1 1/2” GR5 carriage bolts (#2) and hex flange locknuts (#3) using either holes “C” for 16” diameter impeller or holes “D” for a 18” diameter impeller.
3. Tighten locknuts (#3) to the correct torque.

Ripper Depth Adjustment
Refer to Figure 3-5:
The Ripper is designed to tear up hard ground for easier ditching.
Adjust ripper shank (#1) down to holes “A” when impeller blades are installed at 18” diameter or up to holes “B” when blades are installed at 16” diameter. See “Impeller Blade Adjustment” above to determine the diameter the impeller blades are installed.

1. Remove hex head cap screws (#2).
2. Move ripper shank (#1) down to holes “A” when impeller is set at 16” diameter or up to holes “B” when impeller is set at 18” diameter.
3. Secure ripper shank (#1) with 1/2”-13 x 2 1/4” GR5 hex head cap screws (#2) and flange locknuts (#3).
4. Tighten locknuts to the correct torque.
Section 4: Maintenance & Lubrication

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 unit for several hours and on a regular basis thereafter to ensure they are tight and secured. Lubricate components on schedule.

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 ditcher in the upright position with the parking stands before performing maintenance on the unit. Make sure the stands are secured with the wire snap lock pins and that the wire snaps are caught over the ends of the pins. Never work under or around equipment supported by hydraulics. Hydraulics can drop if controls are actuated or if hydraulic lines burst. Either situation can drop the unit instantly even when power to hydraulics is shut off.

**WARNING**
**To avoid serious injury or death:**
- Always disengage power take-off, place tractor in park or set park brake, shut tractor engine off, remove switch key, and wait for blades to come to a complete stop before dismounting from tractor to perform maintenance on the ditcher!
- Do not operate ditcher with out-of-balance blades, excessively worn blades, or with excessively worn blade bolts. Such blades can break loose at high speeds causing serious injury or death. Replace all four blades at the same time.
- Frequently check all hardware to make certain it is tight and not broken or missing. Such hardware can cause the equipment to not perform properly and may lead to breakage that can cause bodily injury or death.
- Replace worn, damaged, or missing parts only with genuine Land Pride Parts. Replacing parts with other brands can cause the equipment to not perform properly and may lead to breakage that can cause bodily injury or death.
- 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.

**Drive Chain Replacement**
The operator should check periodically to make sure that the drive chain is tight. If adjustment is needed refer to “Drive Chain Take-up” on page 14. Replace drive chain when worn excessively.

Refer to Figure 4-1:
1. Remove hex nut (#3), lock washer (#5), and access cover (#1). Gasket (#7) can be left on the housing or if loose, removed.
2. Loosen jam nut (#4) and idler adjustment bolt (#2).
3. Roll roller chain (#6) until master link is accessible through access opening and then remove master link.
4. Remove roller chain (#6) by pulling chain out through access opening.
5. Inspect sprockets for wear. If needed, have your nearest Land Pride dealer install new sprockets.
6. Install new chain over the top sprocket first with end link located at the take-up sprocket.
7. Wrap the other end around the bottom sprocket and up to the take-up sprocket.
8. Connect end links or roller chain (#6) together at the take-up sprocket with master link.

**Attach Chain Case Access Cover**
Refer to Figure 4-1:
1. Check gasket (#7) for damage and tight seal against chain case. If seal is broken, remove gaskets from chain case. Replace gasket if it is checked, cracked, or torn.

**IMPORTANT:** Loctite is required on all nuts (#3) and silicone caulk is required on all exposed faces of gasket (#7) before reassembling.

2. Apply silicone caulk to exposed gasket surfaces (#7) and loctite to nuts (#3).
3. Attach gasket (#7) and access cover (#1) to chain case housing with lock washers (#5), and nuts (#3). Draw nuts up snug, Do not tighten nuts until after reading “Important Note” and step 4.
4. Tighten locknuts to the correct torque using a crisscross pattern. See “Additional Torque Values” on page 24 for correct torque value.

Ripper Tooth Replacement

Refer to Figure 4-2:
Rotate ripper tooth upside down when its bottom is worn out. Replace ripper tooth when both ends are worn out.

1. Unscrew hex flange locknut (#3). Remove plow bolt (#2) and ripper tooth (#4).
2. Inspect plow bolt and hex flange nut for excessive wear. Replace if needed.
3. Inspect ripper tooth (#4). Replace tooth if both ends are worn. Rotate tooth if only one end is worn.
4. Attach ripper tooth with existing 3/8"-16 x 2 1/2" GR5 plow bolt (#2) and hex flanged locknut (#3).
5. Tighten locknut to the correct torque.

Impeller Blade Replacement

Refer to Figure 4-3:
Impeller Blades should be replaced when all 4 corners are worn.

1. Unscrew hex flange locknuts (#3). Remove Carriage bolts (#2) and blades (#4).
2. Inspect plow bolts and hex flange nuts for excessive wear. Replace if needed.
3. Inspect blades for excessive wear. Replace any blade that has all 4 corners worn. Rotate blade if it has a corner that is not worn. See “Impeller Blade Adjustment” on page 15 for instructions on how to rotate blades.
4. Reattach new blades (#4) with 1/2"-13 x 1 1/2" GR5 carriage bolts (#2) and hex flange locknuts (#3) using holes "C" for 16" diameter impeller or holes "D" for 18" diameter impeller.
5. Tighten locknuts (#3) to the correct torque.

IMPORTANT: Tightening 1/2" nuts (#3) to the correct torque in a crisscross pattern. Do not tighten nuts in a circular pattern. For correct torque value, see “Additional Torque Values” on page 24.
Unhook Powered Ditcher

Refer to Figure 4-4:

Unhook Powered Ditcher from tractor as follows:

1. See "Long-Term Storage" on page 19 when parking ditcher for long periods and at the end of the season.

2. Park ditcher on a level solid hard surface, disengage power take-off, place gear selector in park, and set park brake.

3. Lower parking stands (#1) to parking height (holes "A", "B", or "C") and secure stands with wire snap lock pins (#3). Make certain wire snaps are caught over end of pins.

4. Slowly lower ditcher until skid shoe and parking stands are resting fully on the ground or onto support blocks with ripper tooth and impeller supported just above ground level.

5. Shut tractor engine off and remove switch key before dismounting from tractor.

Refer to Figure 4-5:

6. Pull back on driveline yoke collar and hold while pulling driveline yoke from tractor power take-off shaft.

7. Store yoke end of driveline off the ground to keep universal joint and pull collar out of the dirt.

8. Remove customer supplied hairpin cotter and hitch pin connecting center 3-point link to the ditcher. Rotate center 3-point link up into its storage position. Store hitch pin and hairpin cotter with tractor.

9. Remove lower 3-point linchpins and hitch pins from lower 3-point clevises.

10. Lower 3-point arms below clevises and reinstall lower hitch pins, bushings, and linchpins in lower 3-point clevises.

11. Slowly and carefully drive tractor away from ditcher while making sure lower 3-point arms do not catch and pull on the Powered Ditcher.
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.

⚠️ DANGER
To avoid serious injury or death:

Before parking or servicing ditcher, always secure unit in the upright position with parking stands and wire snap lock pins. Not locking parking stands with wire snap lock pins can result in the ditcher falling and causing a serious injury or death.

1. Clean off any dirt and grease that may have accumulated on the ditcher and moving parts. It may be necessary to scrape off compacted dirt from the impeller blades; then use a garden hose to thoroughly clean the surfaces.
2. Check blades and blade bolts for wear and replace as needed.
3. Inspect ditcher for loose, damaged, or worn parts. Adjust and tighten loose parts or replace as needed.
4. Repaint parts where paint is worn or scratched to prevent rust. Ask your Land Pride dealer for aerosol touch-up paint. Paint is 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.
5. Replace all damaged or missing guards and decals.

<table>
<thead>
<tr>
<th>Land Pride Touch-up Paint</th>
<th>Part No.</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>821-011C</td>
<td>PAINT LP BEIGE SPRAY CAN</td>
<td></td>
</tr>
<tr>
<td>821-066C</td>
<td>PAINT ORANGE SPRAY CAN</td>
<td></td>
</tr>
<tr>
<td>821-070C</td>
<td>PAINT GP GLOSS BLACK SPRAY CAN</td>
<td></td>
</tr>
</tbody>
</table>

7. Apply a light coat of oil or grease may be applied to the blades and to any exposed hydraulic cylinder rods to minimize oxidation.
8. Store ditcher on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer ditcher life.
9. Follow all unhooking instructions on this page when disconnecting tractor from ditcher.

Ordering Replacement Parts
Land Pride offers equipment in factory standard Beige with black highlights. This implement is also available in Orange.

When ordering an optional color, the suffix number corresponding to the color must be added at the end of the part number. Parts ordered without the suffix number will be supplied in factory standard colors.

82 . . . . . Orange  85 . . . . . Black

For example, if you are ordering a replacement part with part number 555-555C and the existing part is orange, then add the suffix 82 to the end of the number to make the part number read 555-555C82.
**Lubrication**

**Chain Case Lubrication**

Oil should reach bottom of oil level plug hole in chain case when level plug is removed.

If oil is needed, remove vented fill plug and add oil until it escapes from oil level plug hole. Replace and tighten oil level plug and vented fill plug when done.

Type of Lubrication:
Shell Gadus S2 V220 00 flowable grease
Land Pride Part #821-045C (32 oz. bottle)

**Driveline U-Joints (Zerks Both Ends)**

Type of Lubrication: Multi-purpose Grease
Quantity = As required

**Driveline Shafts**

Type of Lubrication: Multi-purpose Grease
Quantity = As required

**Shear Bolt Joint**

Type of Lubrication: Multi-purpose Grease
Quantity = As required
## DT35 Series Powered Ditcher

### Specifications & Capacities

<table>
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<tr>
<th>Specification</th>
<th>Details</th>
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</thead>
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<tr>
<td>Horsepower Range</td>
<td>30 - 60 horsepower</td>
</tr>
<tr>
<td>Hitch</td>
<td>Cat. I &amp; II, Quick-Hitch Adaptable</td>
</tr>
<tr>
<td>Machine Weight</td>
<td>390 lbs.</td>
</tr>
<tr>
<td>Tractor Power Take-Off</td>
<td>540 rpm</td>
</tr>
<tr>
<td>Impeller rpm</td>
<td>540 rpm</td>
</tr>
<tr>
<td>Impeller Diameter</td>
<td>Adjustable, 16” or 18”</td>
</tr>
<tr>
<td>Impeller Blades</td>
<td>4 ea., Replaceable 1/2” thick steel with hardened steel</td>
</tr>
<tr>
<td>Chain</td>
<td>Single #80 roller chain with positive tension bolt</td>
</tr>
<tr>
<td>Chain Case Oil</td>
<td>Shell Gadus S2 V2200 00 flowable grease</td>
</tr>
<tr>
<td></td>
<td>Land Pride Part #821-045C (32 oz. bottle)</td>
</tr>
<tr>
<td>Input/Output Shafts</td>
<td>2” Cold rolled steel</td>
</tr>
<tr>
<td>Bearings</td>
<td>Sealed for life ball bearings</td>
</tr>
<tr>
<td>Driveline</td>
<td>Cat. 4 with shear-bolt</td>
</tr>
<tr>
<td>Ripper Shank</td>
<td>2 height adjustments to match impeller diameter</td>
</tr>
<tr>
<td></td>
<td>Spring tine tip</td>
</tr>
<tr>
<td>Adjustable Skid Shoe</td>
<td>3/8” thick, replaceable</td>
</tr>
</tbody>
</table>

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![Diagram of DT35 Powered Ditcher](image-url)
### DT35 Series Powered Ditcher

<table>
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<tr>
<th>Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>Horsepower Range</td>
<td>30 - 60 horsepower</td>
</tr>
<tr>
<td>Cat. I &amp; II</td>
<td>Fits wide variety of tractors.</td>
</tr>
<tr>
<td>Quick-Hitch adaptable</td>
<td>Quickly and easily attach ditcher to tractor with one person.</td>
</tr>
<tr>
<td>16” or 18” Impeller</td>
<td>Adjustable Impeller digs a nice size drainage or irrigation ditch up to 8” or 9” deep with each pass.</td>
</tr>
<tr>
<td>4 Blades on impeller</td>
<td>4 Blades make digging easier and smoother than fewer blades.</td>
</tr>
<tr>
<td>1/2” blades</td>
<td>Heavy-duty blades made out of c1084 material for long life.</td>
</tr>
<tr>
<td>Blades can be rotated when worn and are replaceable.</td>
<td>Each blade has four cutting edges to extend blade life. When one edge is worn, rotate blade 180° to a new cutting edge. Replace blades when all four cutting edges are worn out.</td>
</tr>
<tr>
<td>1/2” cutting edge</td>
<td>Impeller features 4 replaceable 1/2” hardened steel cutting edges.</td>
</tr>
<tr>
<td>Single #80 roller chain</td>
<td>Single #80, high tensile roller chain keeps stretching to a minimum and has the strength needed to take shock loads posed by extreme digging conditions.</td>
</tr>
<tr>
<td>Bolt tension idler</td>
<td>Chain idler is bolt adjusted to keep constant tension on chain during tough digging conditions, which also makes for smoother digging operations.</td>
</tr>
<tr>
<td>Hardened tooth sprockets</td>
<td>Hardened tooth sprockets have the strength needed to take the load of the single #80 chain and rigorous digging conditions.</td>
</tr>
<tr>
<td>Greasable sealed for life bearings</td>
<td>Input and output shafts feature 2” ID ball type bearings. Ball bearings offer smooth and quiet operation. Bearings are greasable to keep properly lubricated and purge dirt out.</td>
</tr>
<tr>
<td>4-Bolt flangette</td>
<td>Bearings are housed in 4 bolt flangettes.</td>
</tr>
<tr>
<td>Cat. 4 shear-bolt driveline</td>
<td>Heavy-duty driveline with shear-bolt protects the unit when obstructions are encountered.</td>
</tr>
<tr>
<td>Depth controlling skid shoe</td>
<td>Replaceable 3/8” thick skid shoe for long life and uniform depth control.</td>
</tr>
<tr>
<td>Ripper shank</td>
<td>For hard packed soils, the Shank rips up the ground just ahead of the impeller, allowing the impeller to take in the soil vs. bouncing on hard packed soil. Shank has 2 height adjustments to match impeller diameter.</td>
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## DT35 Series Troubleshooting

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<th>Cause</th>
<th>Solution</th>
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<td>Worn Universal Joint</td>
<td>Replace Universal Joint</td>
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<tr>
<td>Cutting Depth Insufficient</td>
<td>Machine carried by tractor</td>
<td>Lower 3-point arms</td>
</tr>
<tr>
<td></td>
<td>3-Point top link too long</td>
<td>Shorten top link</td>
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<tr>
<td></td>
<td>Lower 3-point arms hitched in the</td>
<td>Reattach lower 3-point arms to the upper hitch plate holes</td>
</tr>
<tr>
<td></td>
<td>bottom hitch plate holes</td>
<td></td>
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<tr>
<td></td>
<td>Ground hard enough to require Ripper</td>
<td>Install Ripper</td>
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<tr>
<td>Impeller will not turn</td>
<td>Driveline not engaged</td>
<td>Engage driveline</td>
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<tr>
<td></td>
<td>Shear bolt in clutch broken</td>
<td>Replace shear bolt in clutch</td>
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<td></td>
<td>Chain separated in case</td>
<td>Repair drive chain</td>
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<td>Excessive noise in chain case</td>
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<td>Adjust spring idler tension</td>
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<td>Sprocket to chain alignment</td>
<td>Adjust sprocket to chain alignment</td>
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<td></td>
<td>Spring loose from idler</td>
<td>Re-Hook spring to idler &amp; adjust</td>
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<tr>
<td>Machine vibration</td>
<td>Debri &amp; dirt lodged in impeller</td>
<td>Clean impeller</td>
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<tr>
<td>Ground cut insufficient</td>
<td>Worn cutting edges</td>
<td>Rotate or replace cutting edges</td>
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## Torque Values Chart for Common Bolt Sizes

<table>
<thead>
<tr>
<th>Bolt Size (inches)</th>
<th>Grade 2</th>
<th>Grade 5</th>
<th>Grade 8</th>
<th>Bolt Size (Metric)</th>
<th>Grade 2</th>
<th>Grade 5</th>
<th>Grade 8</th>
<th>Grade 8</th>
<th>Grade 8</th>
<th>Grade 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>in-tpi 1</td>
<td>N · m 2</td>
<td>ft-lb 3</td>
<td>N · m</td>
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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

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

### Additional Torque Values

**Chain Cover & Bearing Bolts: 1/2"-13 GR5** | 35 ft-lbs. Maximum (Tighten in a Crisscross Pattern.)
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
Driveline: One year Parts and Labor
Impeller: One year Parts and Labor
Impeller cutting edges, blade cutting edge, and ripper shank: 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 ____________________