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.

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**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.

**Parts Manual QR Locator**
The QR (Quick Reference) code on the cover and 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.
Important Safety Information

These 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 insurance 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.

It is the owner’s obligation to instruct all operators in safe operation.

▲ 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 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.

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 skid-resistant surfaces when getting on and off the tractor.
▲ Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.
These 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.

### Transport Safely

- Comply with 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 over head 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 tractor with loader attachment on the “uphill” side.
- Engage park brake when stopped on an incline.

### 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.

### 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.
- Use properly grounded electrical outlets and tools.
- Use correct tools and equipment for the job that are in good condition.
- Lower implement to the ground and follow all shutdown procedures before leaving the operator’s seat to perform maintenance.
- Allow equipment to cool before working on it.

- Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- Do not grease or oil implement while it is in operation.
- 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.
- Remove buildup of grease, oil, or debris.
- Remove all tools and unused parts from equipment before operation.

- 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.
These 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.

**Wear Protective Equipment**
- 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.

**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.

**Use Safety Lights and Devices**
- Slow moving tractors, and self-propelled equipment can create a hazard when driven on public roads. They are difficult to see, especially at night. Use the Slow Moving Vehicle (SMV) sign when on public roads.
- Flashing warning lights and turn signals are recommended whenever driving 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 or use tractor to lift or transport individuals.
- There is not a safe place for a person to ride.
- 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.
These 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 cannot have beards/ mustaches which interfere with the respirator seal to the face.

**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.

**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.

- 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.
This page left blank intentionally.
Important Safety Information

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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.
      a. Squeeze out air bubbles with edge of a credit card or with a similar type of straight edge.

WARNING
To avoid injury or implement damage:
- Operate only with 540 rpm PTO

WARNING
To avoid injury or implement damage:
- Operate only with 1000 rpm PTO

818-130C (DT55)
Warning: 540 rpm

818-240C (DTM55)
Warning: 1000 rpm

DANGER
ROTATING DRIVELINE - CONTACT CAN CAUSE DEATH
KEEP AWAY!
DO NOT OPERATE WITHOUT:
- All driveline guards, tractor and equipment shields in place
- Drivelines securely attached at both ends
- Driveline guards that turn freely on driveline

818-552C
Caution: Rotating Driveline
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838-295C
Danger: Rotating Blade
838-287C
Danger: Thrown Object

838-094C
( Hydraulic Chute Option )
Warning: Hydraulic Pressure

838-112C
( Manual & Hydraulic Chute Option )
Danger: Pinching (2 places)
858-095C
2" x 4 1/2" Red Reflector (2 places)

818-229C (Chute Option)
1 3/4" x 2 3/4" Amber Reflector (1 place)

818-230C (Chute Option)
1 11/16" x 2 13/16" Red Reflector (1 place)
Introduction

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 product.

Application

The DT55 Powered Ditcher is a versatile tool to use in many water control applications. Cleaning water ditches along roadsides or in farm fields to drain standing water away from crops, the DT55 makes it simple. The 20” impeller leaves a clean and sculptured trough to keep water flowing freely from unwanted areas. With the optional Material Control Chute in place, dirt can be placed just next to the machine, or thrown many feet away to reshape terraces. An optional ripper, gauge wheel, and skid shoe can be attached to aid in reshaping terraces and grader ditches.

See “Specifications & Capacities” on page 29 and “Features & Benefits” on page 30 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

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.

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
Tractor horsepower should be within the range noted below. Tractors outside the horsepower range must not be used. Front tractor weights and/or ballast to tires may be required to offset weight of unit. Consult your tractor manual for details.

- Horsepower rating (Maximum) . . . . . . . . . . . . .150 hp
- Depending on lift capacity and field conditions.
- 3-Point hitch type . . . . . . . . . . . . . . . . . . . . . . . . Cat. II & III
- Rear power take-off speed:
  - DT55 . . . . . . . . . . . . . . . . . . . . . . . . . . . . 540 rpm
  - DTM55 . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1000 rpm

**WARNING**

*To avoid serious injury or death:*

- This implement must be mounted only on a tractor equipped with a Category II or III hitch.
- 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.

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.

Driveline Assembly
*Refer to Figure 1-1:*

The driveline is coupled to the gearbox input shaft with two bolts (#4). A shear bolt (#6) is provided for protection from shock loads.

1. Remove hex nuts (#3) and bolts (#4) from shear bolt end of driveline.
2. Slide shear bolt end of splined driveline over the ditcher’s input drive shaft (#5) until bolt holes align with groove in input drive shaft.
3. Insert, from opposite sides, the removed bolts (#4) and secure with existing nuts (#3). Tighten nuts to the correct torque.
4. Push/pull on shear bolt end of driveline to ensure it is securely fastened to the input drive shaft.
5. Continue with “**Hook-up Ditcher**” on page 12.
Hook-up Ditcher
Refer to Figure 1-2:

**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.

**WARNING**
To avoid serious injury or death:
Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.

**IMPORTANT:** The tractor’s lower 3-point arms must be stabilized to prevent side-to-side movement.
Most tractors have sway blocks or adjustable chains for this purpose.

**IMPORTANT:** To prevent park stand from being damaged, always store park stand in the transport position before moving with implement attached.

**NOTE:** Land Pride’s QH20 (Cat. 2) or QH30 (Cat. 3) Quick Hitch can be attached to the tractor to provide quick and easy 3-point hook-up and detachment. Use 1” center mounting holes “B” with QH20 and 1” holes “A” with QH30. Mounting Hardware is customer supplied.

An additional driveline may be required if a Quick Hitch is used. See your nearest Land Pride dealer to purchase a Quick Hitch.

3-Point Hook-Up
Refer to Figure 1-2:
1. Make sure you have read and follow all Safety Alerts and notes in boxes listed under “Hook-up Ditcher” above before continuing.
2. The ditcher is equipped with a Cat. 2 and Cat. 3 hitch. Make sure your tractor’s hitch is compatible with the ditcher’s hitch.
3. Ensure lower 3-point lift arms are blocked to prevent excessive side-to-side movement.
4. Move or remove tractor drawbar to prevent interference with the driveline. See tractor Operator’s Manual for instructions.

**NOTE:** Hitch pin (#8), hitch pin keeper (#10), and Cat. II step bushing (#9) are customer supplied and not illustrated in Figure 1-2.

5. If installed, remove linchpins (#4), hitch pins (#3) and bushings (#5). Remove customer supplied hitch pin keeper (#9), hitch pin (#8), and bushing (#10).
6. Slowly back tractor to ditcher while using tractor’s 3-point control lever to align holes in lower 3-point lift arms with hitch pins (#3).
7. Shut tractor down before dismounting. Refer to “Tractor Shutdown Procedure” on page 11.
8. Do not use 2 1/2” diameter hitch spacers (#5) if hooking-up to a Cat. II tractor. Attach lower 3-point lift arms to the lower clevis with hitch pins (#3), spacer (#5) and bushings (#14). Secure hitch pins with linchpins (#4).
9. Attach tractor’s top center 3-point link to the ditcher’s upper clevis plates as follows:
   - **Cat II:** With customer supplied 1” hitch pin (#8), step bushing (#9) and hitch pin keeper (#10).
   - **Cat III:** With customer supplied 1 1/4” hitch pin (#8) and hitch pin keeper (#10).

10. With gear selector in park or park brake set, start tractor and raise ditcher off the ground several inches.

11. Without lowering the ditcher, shut tractor down before dismounting. Refer to “Tractor Shutdown Procedure” on page 11.

12. Raise park stands (#6) to transport position.
   a. Remove wire retaining pins (#7) and raise park stands (#6) fully up.
   b. Above guide tube (#13), insert wire retaining pins (#7) in the bottom holes in park stands (#6).
   c. Hook wire retainer over end of pins (#7) to keep the pins from falling out.

13. Adjust one of the two tractor’s lower 3-point lift arms up or down to level the ditcher from left to right. A level placed on the ditcher as shown can be used to check for levelness left to right.

14. Adjust tractor’s top center link to level ditcher from front to back. Rotate level (#11) 90° to check for levelness front to back.

**Driveline Hook-Up**

*Refer to Figure 1-2 on page 12:*

**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.
- 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 follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.
- Check driveline when lowering implement to make sure it does not interfere with the tractor drawbar at maximum depth. If needed, shut tractor off and move or remove drawbar to prevent driveline damage.

**IMPORTANT:** An additional driveline may be required if implement is attached to more than one tractor or if a Quick Hitch is used.

**IMPORTANT:** The drivelines must be lubricated before putting them into service. Refer to “Lubrication Points” on page 27.

**IMPORTANT:** Check driveline collapsible and maximum length before completing “Driveline Hook-Up”. Structural damage to the tractor and ditcher can occur if these checks are not made. Refer to “Check Driveline Collapsible Length” on page 14 and “Check Driveline Maximum Length” on page 15.

Driveline (#6) fastens to the tractor power take-off shaft using pull collar (#1).

1. If driveline collapsible length has not been checked, go to “Check Driveline Collapsible Length” on page 14. Otherwise, continue with step 2 below.
2. Park tractor and ditcher on a level surface.
4. If tractor drawbar interferes with the driveline during hook-up, move drawbar forward, to the side, or remove.
5. Pull back on driveline pull collar (#1) and push the splined yoke onto the tractor’s power take-off shaft. Release pull collar and continue to push driveline yoke forward until the pull collar locks in place.
6. Pull on driveline yoke at the tractor to make sure it is secured to the tractor power take-off shaft.
7. Continue with “Check Driveline Interference” on page 15.
Section 1: Assembly & Set-Up

Check Driveline Collapsible Length

**IMPORTANT:** A driveline that is too long can bottom out causing structural damage to the tractor and implement. Always check driveline minimum length during initial setup, and when connecting to a different tractor. More than one driveline may be required to fit all applications.

1. With driveline attached only to the ditcher, remove outer driveline (tractor end) from inner driveline to separate the two profiles.
2. Park tractor and ditcher on a level surface.
3. Raise ditcher until the ditcher's input drive shaft is level with tractor power take-off shaft. Securely block ditcher at this height to keep the unit from lowering.
4. With ditcher resting on the support blocks, shutdown the tractor using "Tractor Shutdown Procedure" on page 11.
5. Attach outer driveline to the tractor's power take-off shaft. Refer to step 5 on page 13.
6. Hold inner and outer drivelines parallel to each other as shown in Figure 1-3. Measure dimension "A":
   - If "A" is less than 1", continue with step 7.
   - If "A" is greater than or equal to 1", continue with "Check Driveline Maximum Length" on page 15.

**IMPORTANT:** The power take-off shaft and gearbox input shaft must be aligned and level with each other when checking driveline minimum length. A driveline that is too long can damage tractor and implement.

7. If dimension "A" is less than 1", shorten driveline as follows:

   **Refer to Figure 1-4:**
   a. Measure 1" ("B1" dimension) back from outer driveline shield and make a mark at this location on the inner driveline shield.
   b. Measure 1" ("B2" dimension) back from the inner driveline shield and make a mark at this location on the outer driveline shield.
8. Remove outer driveline from the tractor power take-off shaft and inner driveline from the ditcher input drive shaft.
9. Cut off non-yoke end of inner driveline as follows:
   a. Measure from end of inner shield to scribed mark ("X" dimension) and record.
   b. Cut off inner shield at the mark. Cut same amount off the inner shaft ("X1" dimension).
10. Cut off non-yoke end of outer driveline as follows:
    a. Measure from end of outer shield to scribed mark ("Y" dimension) and record.
    b. Cut off outer shield at the mark. Cut same amount off the outer shaft ("Y1" dimension).
11. Remove all burrs and cuttings.
12. Apply multi-purpose grease to the inside of the outer shaft and reassemble the driveline.
13. Continue with "Check Driveline Maximum Length" on page 15.
Section 1: Assembly & Set-Up

Check Driveline Maximum Length

Refer to Figure 1-5:

Driveline maximum length must, when fully extended, have 1/2 overlap of the profile tubes with both inner and outer profile tubes being of equal length as shown in Figure 1-5. Check driveline maximum allowable length as follows:

1. Make sure “Check Driveline Collapsible Length” on page 14 has been completed before continuing with instructions below.
2. Unhook driveline profiles from the tractor and implement.
3. If profiles are assembled together, pull outer and inner drivelines profiles apart.
4. Measure and record “Free Length” of inner and outer profiles as shown in Figure 1-5.
5. Lubricate driveline u-joints, bearings, and profiles. Refer to “Lubrication Points” on page 27.
6. Assemble driveline halves together until profile tubes have exactly 1/2 profile overlap as shown.
7. Measure driveline “Maximum Allowable Length” and record that length here ________.
8. Start tractor, raise implement slightly, and drive forward enough to clear support blocks.
9. Lower implement to ground and shut tractor down before dismounting. Refer to “Tractor Shutdown Procedure” on page 11.
10. Attach driveline to the ditcher and tractor. Refer to “Driveline Assembly” on page 11 and “Driveline Hook-Up” on page 13.

IMPORTANT: The driveline must be lubricated before putting it into service. Refer to “Lubrication Points” on page 27.

Check Driveline Interference

Refer to Figure 1-6:

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.

1. Start tractor and slowly engage tractor hydraulic 3-point control lever to lower the ditcher while checking for sufficient drawbar clearance.
2. If drawbar interferes, shut tractor down using “Tractor Shutdown Procedure” on page 11.
3. If required, move drawbar ahead, aside, or remove.
4. Start tractor, raise implement fully up, and back implement over the support blocks used to “Check Driveline Collapsible Length” on page 14,
5. Without changing 3-point lift height, shut tractor down before dismounting. Refer to “Tractor Shutdown Procedure” on page 11.
6. Check to make sure driveline does not exceed any of the limits listed below:
   • Driveline does not exceed maximum allowable length recorded in step 7 under “Check Driveline Maximum Length” on this page.
   • Driveline angle does not exceed 25 degrees above or 25 degrees below horizontal.
7. If any limit was exceeded, adjust tractor 3-point lift limiter to the height that will keep the driveline within the recommended limit listed above. If left lever does not have a lift height limiter, make a mark with tape or other means to indicate maximum lift height.
8. If needed, repeat steps 1-7 until all limits mentioned in step 6 are maintained.
9. Start tractor, raise implement slightly, and drive forward enough to clear support blocks.
10. Lower implement to ground and shut tractor down using “Tractor Shutdown Procedure” on page 11.
**Manual Chute Option Assembly**

Refer to Figure 1-7:

1. Assemble Chute (#1) to the main frame with hinge pin (#3) and cotter pins (#4). Bend one leg of each cotter pin to keep cotter pin from falling out.

2. Attach ratchet jack (#5) to the chute and frame lugs as shown with clevis pins provided. Secure clevis pins with hair pin cotters.

**Hydraulic Chute Option Assembly**

Refer to Figure 1-8:

1. Assemble Chute (#1) to the main frame with hinge pin (#2) and cotter pins (#3). Bend one leg of each cotter pin to keep cotter pin from falling out.

2. Attach hydraulic cylinder to the chute and frame lugs as shown with clevis pins (#4). Secure clevis pins with hair pin cotters.

3. Route hydraulic hoses through hose guide (#5) as shown.
Ripper Option Assembly
Refer to Figure 1-9:
1. Locate Ripper Assembly (#1) with flat end plate outside of mainframe and bent end plate inside of mainframe as shown Figure 1-9.
2. Assemble Ripper Assembly (#1) to the main frame with four 3/4” u-bolts (#2), lock washers (#3) and 3/4” nuts (#4). Tighten nuts to 170 ft-lbs. of torque.

Skid Shoe Option Assembly
Refer to Figure 1-10:
1. Attach Skid Shoe (#1) to the main frame with 3/8”-16 x 1 1/4” GR5 round head square neck bolts (#2) and locknuts (#3). Draw locknuts up snug, do not tighten.
2. Attach one end of turnbuckle (#5) to the main frame lug with clevis pin (#6) and cotter pin (#4).
3. Attach other end of turnbuckle (#5) to the lug on the skid shoe (#1) lug with clevis pin (#6) and cotter pin (#4).
4. Bend one leg of each cotter pin to keep cotter pin from falling out.

Gauge Wheel Option Assembly
Refer to Figure 1-11:
1. Assemble Gauge Wheel Assembly (#1) with hitch pin (#2) and hair pin (#3).
Section 2: Operating Instructions

Startup Checklist
Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the operation, transport, maintenance, and storage 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**, page 1
- **Section 1: Assembly & Set-Up**, page 11
- **Section 2: Operating Instructions**, page 18
- **Section 3: Adjustments**, page 21
- **Section 4: Maintenance & Lubrication**, page 24

Perform the following inspections before using your ditcher.

### Operating Checklist

<table>
<thead>
<tr>
<th>Check</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Be certain all guards and shields are in place and secure.</td>
<td>N/A</td>
</tr>
<tr>
<td>Check chain tension. Refer to “Drive Chain”.</td>
<td>21</td>
</tr>
<tr>
<td>Check oil level in chaincase. Refer to “Lubrication Points”.</td>
<td>27</td>
</tr>
<tr>
<td>Check that all plugs have been replaced properly in the chaincase.</td>
<td>27</td>
</tr>
<tr>
<td>Grease driveline shaft and all other grease fittings. Refer to “Lubrication Points”.</td>
<td>27</td>
</tr>
<tr>
<td>Check that all bolts and nuts are tight. Refer to “Torque Value Chart”</td>
<td>32</td>
</tr>
<tr>
<td>Check air pressure in gauge wheel tire. Refer to Tire Inflation Chart for tire pressure.</td>
<td>32</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.
- Always disengage power take-off before lifting implement up, and never operate implement in the raised position. Objects can be thrown at high speeds toward people or animals.

#### WARNING
To avoid serious injury or death:
- Do not use implement as a man lift, work platform or as a wagon to carry objects. It is not properly designed or guarded for this use.

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.

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 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.

Some tractors are equipped with two power take-off speeds. Be certain your tractor’s power take-off shaft is set-up to operate at the implement’s rated power take-off speed or equipment breakage may result. See Specifications & Capacities for rated power take-off speed.

### Transporting

#### DANGER
To avoid serious injury or death:
- Always disengage power take-off before lifting implement up, and never operate implement in the raised position. Objects can be thrown at high speeds toward people or animals.

#### WARNING
To avoid serious injury or death:
- When traveling on public roads whether at night or day, use accessory light and other warning devices to warn operators of other vehicles. Comply with all federal, state, and local laws.
- Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.
- Select a safe ground speed when transporting. Never travel at a speed which does not allow adequate control of steering and stopping, and never exceed 20 mph (32.2 km/h) with attached equipment. Rough terrain requires a slower speed.
  1. When raising the Powered Ditcher to the transport position, be sure that the powershaft does not contact tractor or implement.
  2. Be sure to reduce tractor ground speed when turning. Leave enough clearance so the Powered 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.
Unhook Ditcher

Refer to Figure 2-1:

**WARNING**

To avoid serious injury or death:
Always place park jack on a firm surface or place a board under the park jack for additional support.

The following steps should be taken when preparing to store the ditcher or to unhitch it from the tractor.

1. See "Long-Term Storage" on page 26 when parking the ditcher for long periods.
2. Park on a solid, level surface. Lower ditcher until the unit is 2 to 3 inches above ground level.
3. Without changing the 3-point lift arm height, shut tractor down using "Tractor Shutdown Procedure" on page 11.
4. Remove wire retaining pins (#7) and lower park stands (#6) until roll pins (#12) are resting on guide tubes (#13). Hook wire retainer over end of pins (#7) to secure the pins.
5. Start tractor and slowly lower ditcher until rear skid shoe and front parking stands (#6) are resting fully on the ground or on support blocks with ripper tooth and impeller supported just above ground level.
7. Pull back on lock collar (#1) and hold while pulling the driveline yoke from the tractor power take-off shaft.

**NOTE:** Hitch pin (#8), hitch pin keeper (#10), and bushing (#9) are customer supplied and not illustrated in Figure 2-1.

8. Remove customer supplied linchpin (#10), hitch pin (#8), and if included, bushing (#9).
9. If provided, place center 3-point link in tractor’s holding clip. Store Customer supplied hitch pin, hitch pin keeper, and bushing with the tractor or ditcher.
10. Remove lower 3-point linchpins (#4), hitch pins (#3), and if Cat. III hitch, spacers (#5) from lower 3-point clevises.
11. Lower 3-point arms below clevises and reinstall lower hitch pins (#3), hitch spacer (#5), and linchpins (#4) in lower 3-point clevises.
12. Slowly and carefully drive tractor away from the ditcher while making sure lower 3-point arms do not catch and pull on the Powered Ditcher.
14. Collapse driveline by pushing tractor end of driveline toward the ditcher input shaft. Store tractor end of driveline off the ground to keep it out of the dirt.
15. Check ditcher for stability by physically pushing and pulling on the ditcher to see if it will easily tip. If it moves in any direction, block ditcher as needed to prevent movement.
Operating Instructions

1. Operate with 540 rpm power take-off tractor on the DT55 and 1000 rpm power take-off on the DTM55.
2. Engage power take-off at approximately 200 rpm and slowly increase to proper 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, and removing ignition key.

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 55 Series 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 if equipped, that the optional hydraulically controlled material deflector chute is operating properly for on the go adjustment with the tractor’s hydraulic controls. This is also the time to 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 the tractor down and make the 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 your unit has an optional depth controlling skid shoe and if you have not already set it 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.

If you are not using a deflector shield, the dirt will usually be ejected outward and will spread evenly over the ground 20’ to 50’ out. If you are using a deflector shield to form a burm or terrace, now is the time to make sure your chute is correctly adjusted to achieve the desired results. 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 may find it necessary to employ an optional ripper attachment. 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 55 Series 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

Angle Of Tilt
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.

Skid Shoe (Optional)
Refer to Figure 3-1:
1. Adjust turnbuckle length to raise or lower skid shoe as needed.

WARNING
To avoid serious injury or death:
Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.

NOTE: For standard torque values, refer to “Torque Values Chart” on page 32. Refer to “Additional Torque Values” at the bottom of the chart for exceptions to the standard torque values.

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

Drive Chain
Refer to Figure 3-2:
1. Unbolt and remove inspection cover (#1). Be careful not to damage gasket (#7) while removing the 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 the chain is loose, loosen jam nut (#5) and turn chain adjusting bolt (#3) until excess chain slack is removed.
4. Tighten jam nut (#5) and recheck chain tension.
5. Replace gasket (#7) if damaged during removal of inspection cover.

IMPORTANT: Loctite is required on all bolts (#4) and silicone is required on gasket (#7) before installation.

6. Attach inspection cover (#1) to the main frame with 1/4"-20 x 5/8" GR5 hex head cap screw (#4) and lock washer (#6). Tighten cap screw to the correct torque.
Gauge Wheel
Refer to Figure 3-3:
The Gauge Wheel can be adjusted by removing 3/4” hitch pin (#3) and moving gauge wheel (#1) up or down to desired depth. Be sure to secure hitch pin with hair pin cotter (#4) when reinstalling.

Ripper Depth
Refer to Figure 3-3:
The Ripper option is designed to tear up hard ground for easier ditching.

Adjust ripper to desired depth by removing pins (#6) and moving the ripper shank (#2) up or down. Replace retaining pins and secure with hair pin cotters (#5).

Manual Chute
Refer to Figure 3-4:
The Chute controls how far and how high debris will be dispersed. Raise the chute to disperse debris farther and higher. Lower the chute to limit how far and how high debris is dispersed. Raise or lower the chute by setting the ratchet mechanism on the jack and then pumping the jack handle.
Hydraulic Chute

⚠️ WARNING
To avoid serious injury or death:
Before any adjustments or maintenance is performed, lower implement to ground, shut engine off, and remove switch key. Do not attempt to make adjustments or perform maintenance with implement or power machine running.

Refer to Figure 3-5:
The Chute can be adjusted hydraulically to the desired height by adjusting tractor hydraulics.
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 after using the unit for several hours to be sure they are tight. For correct torque values, refer to “Torque Values Chart” on page 32.

Replace worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride dealer. Refer to “Safety Labels” on page 6.

Lubricate items as listed under “Lubrication Points” on page 27.

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 hydraulics is off.

• Keep all persons and objects clear while any part of the machine is in motion. A person can be pinched or crushed by the machine.

WARNING
To avoid serious 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.

• Before any adjustments or maintenance is performed lower implement to ground, shut engine off, and remove switch key. Do not attempt to make adjustments or perform maintenance with implement or power machine running.

• Keep body, body extremities, loose clothing, pull strings, etc. away from pinch points such as rotating, extending, and/or retracting components. Secure pinch point areas to ensure they will not move before working on or near them.

• Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting implement back into service.

Drive Chain Maintenance
The operator should check periodically to make sure that the drive chain is tight. If adjustment is needed refer to “Drive Chain” on page 21.

Drive Sprocket & Chain Replacement
Refer to Figure 4-1 on page 25:

1. Remove top cover plate (#1) and rear inspection plate (#2).

2. Loosen jam nut (#14) and idler adjustment bolt (#10).

3. Roll master link (#23) in dual #80 roller chain to top center and remove.

4. Remove chain by pulling chain from the top.

IMPORTANT: Loctite is required on all installed bolts and silicone is required on all installed gaskets.

5. Replace idler sprockets (#22) by removing tightener assembly (#3) from inside the chain case.
   a. Unscrew 3/8” nuts (#15) and remove tightener assembly (#3).
   b. Remove cap screw (#9), spacers (#5 & #6), and sprockets (#22). Keep hardware for reuse.
   c. Install new sprockets (#22) by inserting 3/4"-10 x 3 1/2" GR5 hex head cap screw threw idler bracket (#3), spacers (#6), sprocket (#22), sprocket spacer (#5), sprocket (#22), spacers (#6), and out through idler bracket (#3). Secure with locknut (#13).

6. Replace drive sprocket (#20) and driven sprocket (#21) as follows:
   a. Remove lock collars (#31) from rear flange bearings (#29) and front flange bearings (#30).
   b. Remove 5/8"-11 x 1 1/2” GR5 hex cap screws (#8), lock washers (#18), rear flange bearings (#29), and bearing gaskets (#26).
   c. Record number of teeth of upper sprocket (#20) and lower sprocket (#21) for reassembly.
   d. Loosen set screws in sprockets (#20 & #21). There are 2 set screws for each sprocket.
   e. Pull upper drive shaft (#25) and lower impeller shaft (#4) toward the front of the implement while sliding sprockets (#20 & #21) off the shafts. Be careful not to loose woodruff keys (#7) and sprocket spacers (#24).
   f. Install new sprockets (#20 & 21) and reassemble by reversing above process. See Important Note below before tightening 5/8” cap screws (#8).

7. Replace drive sprocket (#20) and driven sprocket (#21) as follows:
   a. Remove lock collars (#31) from rear flange bearings (#29) and front flange bearings (#30).
   b. Remove 5/8"-11 x 1 1/2” GR5 hex cap screws (#8), lock washers (#18), rear flange bearings (#29), and bearing gaskets (#26).
   c. Record number of teeth of upper sprocket (#20) and lower sprocket (#21) for reassembly.
   d. Loosen set screws in sprockets (#20 & #21). There are 2 set screws for each sprocket.
   e. Pull upper drive shaft (#25) and lower impeller shaft (#4) toward the front of the implement while sliding sprockets (#20 & #21) off the shafts. Be careful not to lose woodruff keys (#7) and sprocket spacers (#24).
   f. Install new sprockets (#20 & 21) and reassemble by reversing above process. See Important Note below before tightening 5/8” cap screws (#8).

IMPORTANT: Tightening 5/8” cap screws (#8) to 75 ft-lbs. maximum in a crisscross pattern. Do not tighten bolts in a circular pattern.

8. Install new chain from the top by using a pull line or wire to help guide chain around sprockets so you can add master link at top center. Refer to “Drive Chain” on page 21 to properly adjust roller chain tension.
8. Install rear inspection plate (#2) and gasket (#27) with lock washer (#16) and 1/4"-2 x 5/8" GR5 hex head cap screws (#11).

9. Install top cover plate (#1) and cover gasket (#28) with galvanized rubber clad washers (#19), lock washers (#17), and 3/8"-16 x 1 1/4" GR5 hex head cap screws (#12). Tighten cap screws to the correct torque.

**IMPORTANT:** Do not forget to install 3/8" galvanized rubber clad washers (#19). If not replaced oil could leak out during operation.
Hydraulic System

**WARNING**

To avoid serious injury or death: 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.

One of the most important things you can do to prevent hydraulic system problems is ensure that your tractor's reservoir remains free of dirt and contamination. Use a clean cloth to wipe hose ends before attaching them to your tractor. Replace your tractor's hydraulic filter element at the prescribed intervals. These simple maintenances will go a long way to prevent occurrence of control valve and hydraulic cylinder problems.

**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:

- Always disconnect driveline from the tractor and secure implement in the up position with solid, non-concrete supports before servicing the underside. A person can become entangled in the drivetrain if the tractor is started and power take-off is engaged or crushed by an unsupported implement.

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 rotor 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 Powered Ditcher for loose, damaged, or worn parts. Adjust and tighten loose parts or replace as needed.
4. Lubricate as noted in the “Lubrication Points” section starting on page 27.
5. Repaint parts where paint is worn or scratched to prevent rust. Ask your dealer for Land Pride 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.

### Land Pride Touch-up Paint

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

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

### 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.
Section 4: Maintenance & Lubrication

Lubrication Points

<table>
<thead>
<tr>
<th>Lubrication Legend</th>
<th>50 Hrs</th>
<th>Intervals in hours at which lubrication is required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-purpose spray lube</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-purpose grease lube</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-purpose oil lube</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Input Shaft Bearing

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

### Output Shaft Bearings

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

### Drive Chain

- Oil should escape from Oil Level plug hole in chain case when the level plug is removed.
- If oil is needed, remove top fill plug and add oil until it escapes from Oil level plug hole.

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

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

Driveline U-Joints (Zerks Both Ends)

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

Gauge Wheel Option Bearing

Type of Lubrication: Multi-purpose Grease
Quantity = As required
## Section 5: Specifications & Capacities

### DT(M)55 Series

#### Specifications & Capacities

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>DT55</th>
<th>DTM55</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horsepower Range</td>
<td>60 - 150 horsepower</td>
<td></td>
</tr>
<tr>
<td>Hitch</td>
<td>Category 2 &amp; Category 3, Quick-Hitch Adaptable</td>
<td></td>
</tr>
<tr>
<td>Machine Weight (Without Options)</td>
<td>900 lbs.</td>
<td>850 lbs.</td>
</tr>
<tr>
<td>Tractor Power Take-Off</td>
<td>540 rpm</td>
<td>1000 rpm</td>
</tr>
<tr>
<td>Impeller rpm</td>
<td>740 rpm</td>
<td>730 rpm</td>
</tr>
<tr>
<td>Impeller</td>
<td>20&quot; Impeller</td>
<td></td>
</tr>
<tr>
<td>Impeller Blades</td>
<td>6 ea., 3/8&quot; thick steel with replaceable hardened cutting edges</td>
<td></td>
</tr>
<tr>
<td>Chain</td>
<td>Double 80 chain with positive tension bolt</td>
<td></td>
</tr>
<tr>
<td>Chain Case Oil</td>
<td>Shell Gadus S2 V220 00 flowable Grease Land Pride Part #821-045C (32 oz. bottle)</td>
<td></td>
</tr>
<tr>
<td>Input/Output Shafts</td>
<td>2 1/4&quot; ID ball type bearings</td>
<td></td>
</tr>
<tr>
<td>Driveline</td>
<td>Cat. 5 with shear-bolt</td>
<td></td>
</tr>
<tr>
<td>Material Control Chute (Optional)</td>
<td>Manual or with 2&quot; X 8&quot; hydraulic cylinder and hoses</td>
<td></td>
</tr>
<tr>
<td>Depth Control Wheel (Optional)</td>
<td>16.5 X 6.50-8 pneumatic tire Adjustable from cutting edge to 10&quot; below</td>
<td></td>
</tr>
<tr>
<td>Ripper Shank (Optional)</td>
<td>3 height adjustments from cutting edge depth to 5&quot; below Spring tine tip</td>
<td></td>
</tr>
<tr>
<td>Skid Shoe (Optional)</td>
<td>3/8&quot; thick, replaceable</td>
<td></td>
</tr>
</tbody>
</table>

![Diagram of DT55 & DTM55 Powered Ditcher](image_url)

---

77 1/2" 55" 77 1/2" 63"
## DT55 & DTM55 Series

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat. 2 &amp; 3</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>Formed tubing hitch</td>
<td>Formed tubing with 1/4” wall offers greater strength vs. plate steel hitch.</td>
</tr>
<tr>
<td>540 &amp; 1000 rpm models</td>
<td>Allows fitting larger tractors that are 1000 rpm only. Driveline available in 1 3/8” or 1 3/4”.</td>
</tr>
<tr>
<td>20” Impeller</td>
<td>20” Impeller digs a nice size drainage or irrigation ditch up to 10” deep with each pass.</td>
</tr>
<tr>
<td>6 Blades on impeller</td>
<td>6 Blades make digging easier and smoother than fewer blades.</td>
</tr>
<tr>
<td>3/8” Hardened blades</td>
<td>Heavy-duty blades made out of AR400 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 90° to a new cutting edge. Replace blades when all four cutting edges are worn out.</td>
</tr>
<tr>
<td>3/8” Hardened cutting edge</td>
<td>Impeller blades feature a replaceable hardened edge to take on rough and rocky conditions. Easier and more cost effective to replace edge vs. using hard faced material on impeller.</td>
</tr>
<tr>
<td>Double 80 chain</td>
<td>Double 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>Spring loaded chain idler</td>
<td>Chain idler is spring loaded 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 double 80 chain and rigorous digging conditions.</td>
</tr>
<tr>
<td>2 Greasable flange bearings</td>
<td>Input and output shafts feature 2 1/4” 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 cast iron flanges</td>
<td>Bearings are housed in a heavy-duty 4-bolt cast iron flange. Heavy-duty casting offers full protection under extreme use.</td>
</tr>
<tr>
<td>Cat. 5 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 (optional)</td>
<td>Replaceable 3/8” thick skid shoe for long life and uniform depth control.</td>
</tr>
<tr>
<td>Material control chute (optional)</td>
<td>Material control chute allows the operator to place material just outside the tractor path, or as far away as the ditcher will throw it. Control the throwing distance by raising or lowering the chute with either a 2” x 8” hydraulic cylinder or ratchet jack.</td>
</tr>
<tr>
<td>Depth control wheel (optional)</td>
<td>16.5 x 6.50-8 Pneumatic gauge wheel keeps digging depth constant from just skimming the ground to 10” deep.</td>
</tr>
<tr>
<td>Ripper shank (optional)</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 3 height adjustments from cutting edge depth to 5” below cutting edge.</td>
</tr>
</tbody>
</table>
## DT55 & DTM55 Series Troubleshooting Chart

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driveline Vibrates</td>
<td>Worn Universal Joint</td>
<td>Replace Universal Joint</td>
</tr>
<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>
</tr>
<tr>
<td></td>
<td>Ground hard enough to require Ripper</td>
<td>Install Ripper</td>
</tr>
<tr>
<td></td>
<td>Depth control set too low</td>
<td>Adjust to depth required</td>
</tr>
<tr>
<td></td>
<td>(Skid Shoe or Gauge Wheel)</td>
<td></td>
</tr>
<tr>
<td>Rotor will not turn</td>
<td>Driveline not engaged</td>
<td>Engage driveline</td>
</tr>
<tr>
<td></td>
<td>Shear bolt in clutch broken</td>
<td>Replace shear bolt in clutch</td>
</tr>
<tr>
<td></td>
<td>Chain separated in case</td>
<td>Repair drive chain</td>
</tr>
<tr>
<td>Excessive noise in chain</td>
<td>Chain loose</td>
<td>Adjust spring idler tension</td>
</tr>
<tr>
<td>case</td>
<td>Sprocket to chain alignment</td>
<td>Adjust sprocket to chain alignment</td>
</tr>
<tr>
<td></td>
<td>Spring loose from idler</td>
<td>Re-Hook spring to idler &amp; adjust</td>
</tr>
<tr>
<td>Machine vibration</td>
<td>Debri &amp; dirt lodged in rotor</td>
<td>Clean rotor</td>
</tr>
<tr>
<td>Ground cut insufficient</td>
<td>Worn cutting edges</td>
<td>Rotate or replace cutting edges</td>
</tr>
</tbody>
</table>
## 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>
</tr>
</thead>
<tbody>
<tr>
<td>bolt head identification</td>
<td>N · m</td>
<td>ft-lb</td>
<td>N · m</td>
</tr>
<tr>
<td>in-tpi</td>
<td>N · m</td>
<td>ft-lb</td>
<td>N · m</td>
</tr>
<tr>
<td>1/4&quot; - 20</td>
<td>7.4</td>
<td>11</td>
<td>18</td>
</tr>
<tr>
<td>1/4&quot; - 28</td>
<td>8.5</td>
<td>13</td>
<td>18</td>
</tr>
<tr>
<td>5/16&quot; - 18</td>
<td>15</td>
<td>17</td>
<td>33</td>
</tr>
<tr>
<td>5/16&quot; - 24</td>
<td>17</td>
<td>19</td>
<td>37</td>
</tr>
<tr>
<td>3/8&quot; - 16</td>
<td>27</td>
<td>31</td>
<td>59</td>
</tr>
<tr>
<td>3/8&quot; - 24</td>
<td>31</td>
<td>42</td>
<td>67</td>
</tr>
<tr>
<td>7/16&quot; - 14</td>
<td>43</td>
<td>49</td>
<td>70</td>
</tr>
<tr>
<td>7/16&quot; - 20</td>
<td>49</td>
<td>75</td>
<td>78</td>
</tr>
<tr>
<td>1/2&quot; - 13</td>
<td>66</td>
<td>105</td>
<td>105</td>
</tr>
<tr>
<td>1/2&quot; - 20</td>
<td>75</td>
<td>115</td>
<td>120</td>
</tr>
<tr>
<td>9/16&quot; - 12</td>
<td>95</td>
<td>150</td>
<td>155</td>
</tr>
<tr>
<td>9/16&quot; - 18</td>
<td>105</td>
<td>165</td>
<td>170</td>
</tr>
<tr>
<td>5/8&quot; - 11</td>
<td>130</td>
<td>150</td>
<td>210</td>
</tr>
<tr>
<td>5/8&quot; - 18</td>
<td>150</td>
<td>230</td>
<td>240</td>
</tr>
<tr>
<td>3/4&quot; - 10</td>
<td>235</td>
<td>360</td>
<td>375</td>
</tr>
<tr>
<td>3/4&quot; - 16</td>
<td>260</td>
<td>405</td>
<td>420</td>
</tr>
<tr>
<td>7/8&quot; - 9</td>
<td>225</td>
<td>430</td>
<td>605</td>
</tr>
<tr>
<td>7/8&quot; - 14</td>
<td>250</td>
<td>640</td>
<td>670</td>
</tr>
<tr>
<td>1&quot; - 8</td>
<td>340</td>
<td>875</td>
<td>910</td>
</tr>
<tr>
<td>1&quot; - 12</td>
<td>370</td>
<td>1230</td>
<td>1290</td>
</tr>
<tr>
<td>1-1/8&quot; - 7</td>
<td>480</td>
<td>1080</td>
<td>1290</td>
</tr>
<tr>
<td>1-1/8&quot; - 12</td>
<td>540</td>
<td>1960</td>
<td>1440</td>
</tr>
<tr>
<td>1-1/4&quot; - 7</td>
<td>680</td>
<td>1520</td>
<td>1820</td>
</tr>
<tr>
<td>1-1/4&quot; - 12</td>
<td>750</td>
<td>1680</td>
<td>2010</td>
</tr>
<tr>
<td>1-3/8&quot; - 6</td>
<td>890</td>
<td>1990</td>
<td>2380</td>
</tr>
<tr>
<td>1-3/8&quot; - 12</td>
<td>1010</td>
<td>2270</td>
<td>2710</td>
</tr>
<tr>
<td>1-1/2&quot; - 6</td>
<td>1180</td>
<td>2640</td>
<td>3160</td>
</tr>
<tr>
<td>1-1/2&quot; - 12</td>
<td>1330</td>
<td>2970</td>
<td>3560</td>
</tr>
</tbody>
</table>

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: 5/8"-11 x 1 1/2" GR5 | 75 ft-lbs. Maximum (Tighten in a Crisscross Pattern.)

## Tire Inflation Chart

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Inflation PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.5 x 6.50-8 Pneumatic Tire</td>
<td>45</td>
</tr>
</tbody>
</table>
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
**Hydraulic Cylinder** (If equipped): 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 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 original 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.