

# DR<sup>®</sup> PULSE TRIMMER/MOWER™

## SAFETY & OPERATING INSTRUCTIONS



Model:  
PULSE 62V  
PULSE 62V SP

Serial No. \_\_\_\_\_

Order No. \_\_\_\_\_

DR Power Equipment  
Toll-free phone: 1-800-DR-OWNER (376-9637)  
Website: [www.DRpower.com](http://www.DRpower.com)

### **WARNING**

Read and understand this manual and all instructions before operating the DR PULSE TRIMMER/MOWER.

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## Conventions used in this manual

### WARNING

This indicates a hazardous situation, which, if not avoided could result in death or serious injury.

### CAUTION

This indicates a hazardous situation, which, if not avoided could result in minor or moderate injury.

### NOTICE

This information is important in the proper use of your machine. Failure to follow this instruction could result in damage to your machine or property.

## Serial Number and Order Number

A Serial Number is used to identify your machine and is located on the Serial Number Label on your machine. An Order Number is used to check and maintain your order history and is located on your packing slip. For your convenience and ready reference, enter the Serial Number and Order Number in the space provided on the front cover of this manual.

|                                                                             |                     |
|-----------------------------------------------------------------------------|---------------------|
| OUTDOOR POWER                                                               |                     |
| MODEL/MODELO                                                                | XXXXXXX             |
| SERIAL NO.<br>N. DE SERIE                                                   | SERIAL #<br>XXXXXXX |
| POWER (KW)                                                                  | XXXXXXX             |
| WEIGHT (KG)                                                                 | XXXXXXX             |
| ITEM #                                                                      | XXXXXXX             |
| MANUFACTURED<br>DATE                                                        | XXXXXXX             |
| DR POWER EQUIPMENT<br>800 HINESBURG ROAD<br>SOUTH BURLINGTON, VERMONT 05403 |                     |
| COUNTRY OF ORIGIN                                                           | XXXXXXX             |

## Additional Information and Potential Changes

DR Power Equipment reserves the right to discontinue, change, and improve its products at any time without notice or obligation to the purchaser. The descriptions and specifications contained in this manual were in effect at printing. Equipment described within this manual may be optional. Some illustrations may not be applicable to your machine.

## California Proposition 65



### WARNING

CANCER AND REPRODUCTIVE HARM - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Chapter 1: General Safety Rules

### WARNING

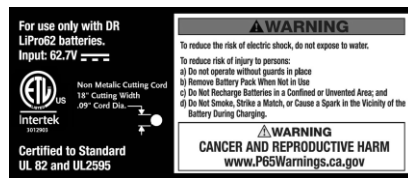
Read this safety & operating Instructions manual and all Warnings before you use the DR PULSE TRIMMER/MOWER. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Become familiar with the operation and service recommendations to ensure the best performance from your machine. If you have any questions or need assistance, please contact us at [www.DRpower.com](http://www.DRpower.com) or call toll-free 1-800-DR-OWNER (376-9637) and one of our Technical Support Representatives will be happy to help you.

### Labels

Your DR PULSE TRIMMER/MOWER carries prominent labels as reminders for its proper and safe use. Shown below are copies of the Safety and Information labels that appear on the equipment. Take a moment to study them and make a note of their location on your DR PULSE TRIMMER/MOWER as you set up and before you operate the unit. Replace damaged or missing safety and information labels immediately.



#136491



#A0000057739



#148231

### Protecting Yourself and Those around You

### WARNING

This is a high-powered machine, with moving parts operating with high energy at high speeds. You must operate the machine safely. Unsafe operation can create a number of hazards for you, as well as anyone else in the nearby area. Always take the following precautions when using this machine:

- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people, their property, and themselves.
- Always wear protective goggles or safety glasses with side shields while mowing to protect your eyes from possible thrown debris.
- Avoid wearing loose clothing or jewelry, which can catch on the mower's moving parts.
- We recommend wearing rubber gloves while mowing. Be sure your gloves fit properly and do not have loose cuffs or drawstrings.
- Wear shoes with non-slip treads when using your DR PULSE TRIMMER/MOWER. If you have safety shoes, we recommend wearing them. Do not use the machine while barefoot or wearing sandals with exposed toes or heels.
- Wear long pants while operating the DR PULSE TRIMMER/MOWER.
- Use ear protectors or ear plugs rated for at least 20 dba to protect your hearing.
- Always use a face or dust mask in dusty conditions.
- Keep bystanders at least 50 feet away from your work area at all times. The tips of the cutting cords on the DR PULSE TRIMMER/MOWER can throw sticks, small stones, gravel, and bits of debris over long distances at great velocity. Do not travel over loose materials such as gravel or mulch with the trimmer head spinning. Doing so could cause personal injury or property damage from thrown objects. Release the bail bar to stop the spinning cords and motor when another person or pet approaches.
- Never tamper with safety devices. Check their proper operation regularly.
- Never operate the machine when under the influence of alcohol, drugs, or medication.
- In an emergency, to quickly stop the cutting cords and motor, remove your hand from the bail bar.
- Wear protective hair covering to contain long hair to prevent entanglement.

## Operating the Mower Safely

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### **WARNING**

This is a high-powered machine, with moving parts operating with high energy at high speeds. You must operate the machine safely. Unsafe operation can create a number of hazards for you, as well as anyone else in the nearby area. Always take the following precautions when using this machine:

- Never allow people who are unfamiliar with these instructions to use the DR PULSE TRIMMER/MOWER. Allow only responsible individuals who are familiar with these rules of safe operation to use your machine.
  - Never place your hands, feet, or any part of your body on or under the trimmer deck in the path of the spinning cords, belt, pulleys, or near the discharge opening while the motor is running. Keep area of discharge clear of people, animals, buildings, glass, or anything else that will obstruct clear discharge, cause injury, or damage.
  - Your DR PULSE TRIMMER/MOWER is a powerful tool, not a plaything. Exercise extreme caution at all times. The design of your machine is for trimming and mowing grass, weeds, and other growth as specified in this manual. Do not use it for any other purpose.
  - Never operate the machine if there are damaged, loose, misaligned, or missing parts. Repair, replace, or reposition any parts as needed before operating.
  - Always release the bail bar to shut off the motor and remove the Battery to prevent accidental starting whenever you leave the operating position to make adjustments, change cords, or if you have to remove grass or debris from the underside of the deck.
  - Use extreme caution to ensure solid and firm footing when operating over uneven terrain and slopes. Keep a firm hold on the handlebar and walk, never run.
  - Stop the cutting cords when crossing gravel drives, walks, or roads.
  - Never operate the DR Pulse Trimmer/Mower in damp or wet conditions. Never use the machine in the rain. Getting the machine wet could damage electrical components and endanger the operator.
  - Never operate your unit on a slippery, wet, or muddy surface. Exercise caution to avoid slipping or falling.
  - Always operate the mower from behind the handlebar. Never pass or stand on the discharge side of the machine when the motor is running and cutting cords are spinning.
  - Never, under any conditions, remove, bend, cut, fit, weld, or otherwise alter standard parts on the DR PULSE TRIMMER/MOWER. This includes all shields and guards. Modifications to your machine could cause personal injuries and property damage and will void your warranty.
  - If the cutting cords strike a foreign object or if your machine should start making an unusual noise or vibration, release the bail bar to stop the motor immediately. Vibration is generally a warning of trouble. Remove the Battery and inspect for damage. Clean and repair and/or replace damaged parts.
  - While using the DR PULSE TRIMMER/MOWER, do not hurry or take things for granted. When in doubt about the equipment or your surroundings, stop the machine, and take the time to look things over. Make sure that you have 100% control of the mower at all times.
  - Watch for traffic when mowing near roadways.
  - Use the machine only in daylight.
  - Be cautious when using your DR PULSE TRIMMER/MOWER around fencing, wires, ropes, and hoses. It is possible that these and other debris can become wound around the trimmer head of the machine, potentially damaging the bearings or injuring you.
  - Do not operate the DR PULSE TRIMMER/MOWER on slopes greater than 20 degrees to prevent slipping.
  - Keep all nuts and bolts tight and keep the equipment in good operating condition.
  - Use DR Power Equipment .09" Cord provided with your Trimmer/Mower for best results. Never use Cutting Cord materials such as metal wire, rope, etc.
  - Do not operate the DR PULSE TRIMMER/MOWER when you are tired
  - Don't Overreach – Keep proper footing and balance at all times.
  - Don't Force the DR PULSE TRIMMER/MOWER – It will do the job better and with less likelihood of a risk of injury at the rate for which it was designed.
  - Keep handles dry, clean, and free from oil and grease.
-

## Handling the Battery Pack and Charger Safely

### **WARNING**

- Always remove the Battery Pack when the machine is not in use.
- Do not charge Batteries in a confined or unvented area.
- Do not smoke, strike a match, or cause a spark in the vicinity of the Battery during charging.
- Always charge the Battery Pack indoors, never charge it the rain or in wet conditions.
- Use only the DR® 62V Charger with DR® 62V Battery Packs. Do not use the DR® 62V Charger with Battery Packs from other manufacturers. Use of a different Charger may cause a fire or explosion.
- Never attempt to alter or open the Battery Pack or Charger. There are no customer serviceable parts inside. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
- Use normal household voltage (110 volts) when charging the Battery Pack. Plug the Charger Power Supply directly into the electrical outlet.
- Keep the Battery Pack clean and dry and at a normal room temperature for best results.
- Do not expose the Battery Pack or Charger to mechanical shock or they could become damaged.
- Exercise care in handling the Battery Pack in order not to short-circuit it with conducting materials such as rings, bracelets, and keys. When short-circuited, the Battery Pack or conductor may overheat and cause burns.
- Electrolyte leakage from the Battery Pack can be harmful causing serious chemical burns if on the skin or in the eyes. Remove contaminated clothing and wash skin with soap and water. If electrolyte gets in your eyes, flush with cold water for at least 15 minutes and seek medical attention.
- Inhalation of vapors from a ruptured Battery Pack can cause respiratory irritation. In case of Inhalation of fumes get fresh air and seek medical attention.
- Never dispose of the Battery Pack in a fire, as the Battery Pack may explode.
- If fire or explosion occurs, do not breathe the fumes. A burning Battery Pack will create toxic fumes. Fire fighters should use self-contained breathing apparatus.
- NEVER USE WATER on a burning Battery. If possible, separate the Battery Pack from other flammable materials and use ABC rated fire extinguishers. Sand may be used to smother the fire if a fire extinguisher is not available.
- Do not ship damaged Battery Packs and be sure to use the original packaging materials when shipping Batteries and tools back to DR® Power Equipment if you decide you do not want them. Special labeling on the packaging is required because the Batteries are considered hazardous materials. Check with airlines before trying to check Lithium batteries with your baggage. Regulations may restrict packaging and shipping of these Batteries as well as tools with Batteries installed.
- Please dispose of your used Battery Packs responsibly by recycling them. Never throw away used Battery Packs in your household trash. Call your local Solid Waste Management District or your local waste handler to locate the collection site nearest you. Some collection sites recycle Battery Packs year-round, others collect them periodically.

## FCC Warnings

### **WARNING**

Please note that changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## ***Safety for Children and Pets***

### **WARNING**

Tragic accidents can occur if the operator is not alert to the presence of children and pets. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them. Always follow these precautions:

- Keep children and pets out of the working area and under the watchful care of a responsible adult.
- Be alert and turn the machine off if children or pets enter the work area.
- Never allow children to operate the DR PULSE TRIMMER/MOWER.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure your vision.

### ***A Note to All Users***

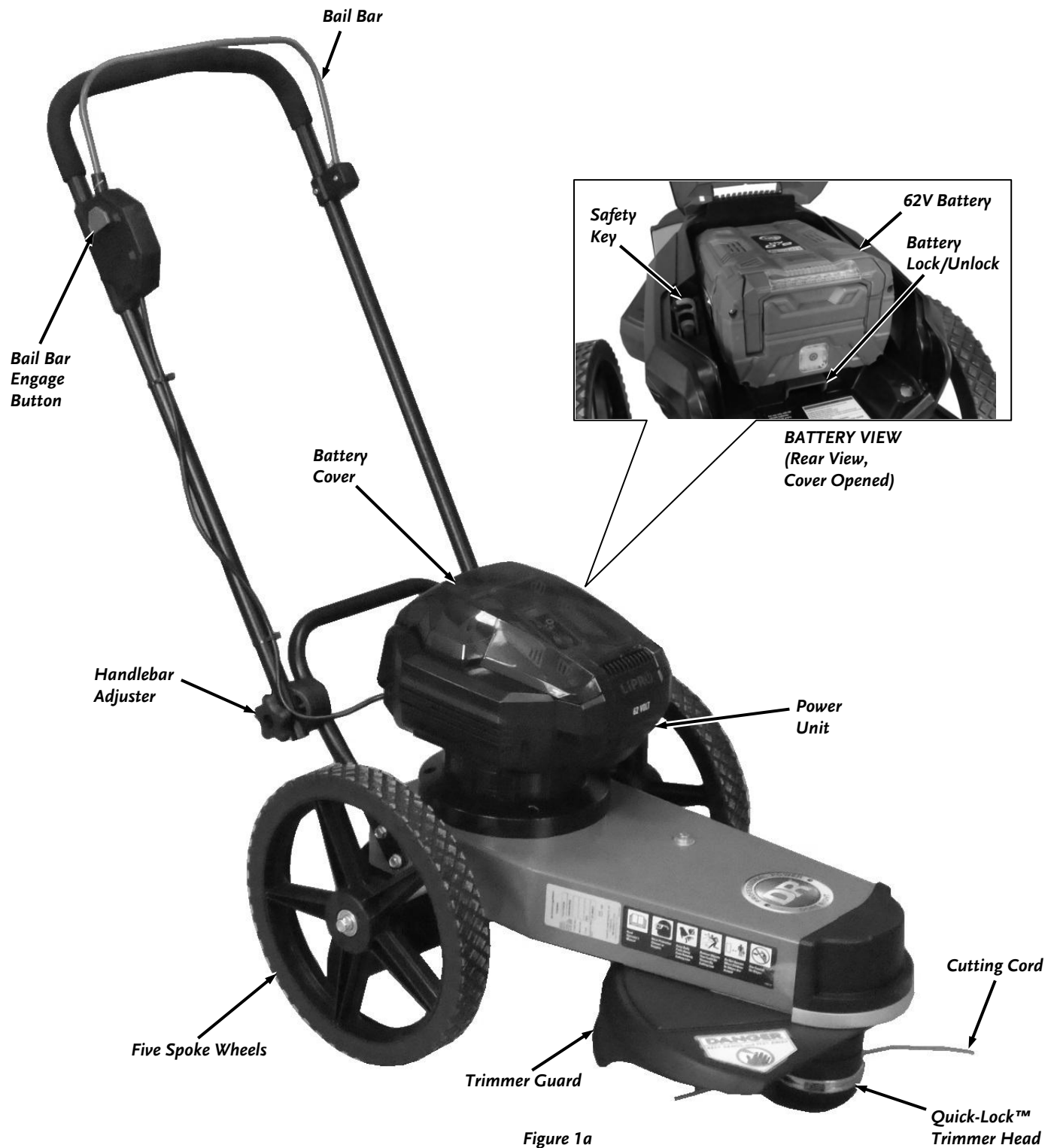
No list of warnings and cautions can be all-inclusive. If situations occur that are not covered by this manual, the operator must apply common sense and operate this DR PULSE TRIMMER/MOWER in a safe manner. Contact us at [www.DRpower.com](http://www.DRpower.com) or call 1-800-DR-OWNER (376-9637) for assistance.

Save this Safety and Operating Instructions Manual in a safe location for future reference.

## Chapter 2: Setting Up the DR PULSE TRIMMER/MOWER

It may be helpful to familiarize yourself with the controls and features of your DR PULSE TRIMMER/MOWER as shown in **Figure 1** before beginning these procedures. If you have any questions at all, please feel free to contact us at [www.DRpower.com](http://www.DRpower.com).

### **DR PULSE TRIMMER/MOWER Controls and Features (Non Self-Propelled)**



## DR PULSE TRIMMER/MOWER Controls and Features (Self-Propelled)



Figure 1b



## Specifications

|                | PULSE 62V                               | PULSE 62V SP                            |
|----------------|-----------------------------------------|-----------------------------------------|
| Motor          | Brushless, 850 W, 62V DC                | Brushless, 850 W, 62V DC                |
| Battery        | Part Number 41424 (5 Ah) Included       | Part Number 41424 (5 Ah) Included       |
| Charger        | Part Number 41422 (5 Ah) included       | Part Number 41422 (5 Ah) included       |
| Motor Speed    | 3500 rpm                                | 3500 rpm                                |
| Cutting Width  | 18"                                     | 18"                                     |
| Cutting Height | 3 Heights, 2" - 4"                      | 3 Heights, 2" - 4"                      |
| Cutting Speed  | 3800 RPM                                | 3800 RPM                                |
| Cord Size      | Gray .09", 11" Long recommended         | Gray .09", 11" Long recommended         |
| Belt           | V-Belt, 3L440R                          | V-Belt, 3L440R                          |
| Wheels         | 14" x 1.75" Wide, Resin, Steel Bearings | 14" x 1.75" Wide, Resin, Steel Bearings |
| Wheel Drive    | Push                                    | Battery Power Unit                      |
| Frame          | 14 Gage Steel                           | 14 Gage Steel                           |
| Mow-Ball       | 4" Diameter, Super-Tough Nylon          | 4" Diameter, Super-Tough Nylon          |

## Charge the Battery Pack before your first use

The DR PULSE Trimmer/Mower uses a sealed, Lithium-Ion Battery Pack. You **MUST** charge the Battery Pack for at least 90 minutes before you use the Mower for the first time. If you do not charge it before using the Mower, the Battery Pack's charging capacity may decrease.

### NOTICE

- Make sure the Charger Power Supply is plugged into a normal household voltage, 120volts, 60Hz, AC only.
- You should operate the Battery Charger in a dry place with temperatures between 50°F (10°C) and +100°F (+37.8°C). Operating above +100 °F can cause Battery Pack leakage, rust, or degradation of the Battery Pack performance.
- Do not charge appliance in rain or in wet locations.



Figure 2

1. Connect the Charger to a 120VAC outlet. When the Battery is not installed (no load condition): The Red LED will be lit.
2. Insert the Battery into the Charger (**Figure 2**). Under normal charging the Green LED will Blink.
3. When the Battery is fully charged, the Green LED will remain light, indicating that charging is complete.
4. Unplug the Charger from the Outlet and remove the Battery.

## Adjusting the DR PULSE TRIMMER/MOWER Handlebar

Tools needed:

### NOTICE

The Lower Handlebar Bolts may have been loosened during shipping. Make sure that the Bolts attaching the Lower Handlebar to the Frame are tight.

- 1/2" Wrench
1. Check the tightness of the four Bolts that secure the Lower Handlebar to the Frame using a 1/2" Wrench (**Figure 3**).

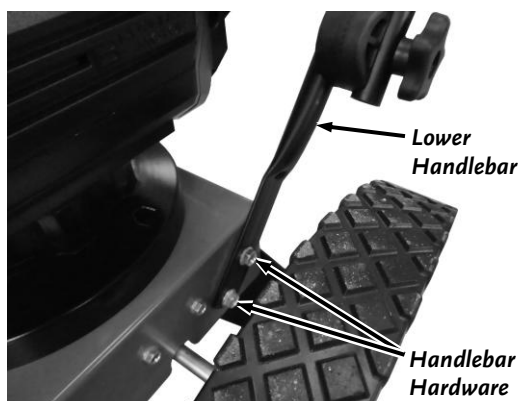


Figure 3

The Handlebar folds down for easy storage and the DR PULSE TRIMMER/MOWER is shipped to you with them folded.

**Note:** Ensure that the teeth of the Handlebar Adjusters mesh correctly as you tighten the Knobs in the following step.

1. Loosen both the Adjustment Knobs and move the Handlebar up or down until the Notches on the Adjusters are aligned on both sides and tighten the Knobs (**Figure 4**). This puts the Handlebar at a comfortable operating position for many people.

**Note:** It is important to find a Handlebar height that allows the Mow-Ball® to comfortably hover just above the ground when in use. Proper adjustment is critical to best performance. You may find you like different Handlebar heights for different mowing conditions.

2. For other Handlebar height settings, loosen the Knobs, move the Handlebar up or down until you are comfortable, and then tighten the Adjustment Knobs securely. Take note of how many teeth you have moved away from the aligned notches to align both sides.

## Installing Trimmer Cords

### NOTICE

- We recommend using DR Power Equipment .09" Cord provided with your Trimmer/Mower for best results. Never use larger cord or materials such as metal wire, rope, etc.
- If the tips of the cords are not even, it can cause vibration that could damage the machine.

Always install both Trimmer Cords and ensure they are the same length. Not having both Cords installed and/or at the same length will cause excessive vibration and could damage the machine.

1. Insert the end of a Trimmer Cord into the inlet hole (larger slotted cutout) push it in until the end protrudes out the other side approximately 1/2" (**Figure 5**).
2. Turn the Quick Lock 180 degrees and repeat the installation for the other side.

**Note:** The Cord can only move through the Quick Lock in one direction. To remove it you must pull it from the other side of the Holder (where the 1/2" end is).

## Extending Cutting Cord Life

- **STORE YOUR CORD OUT OF THE SUN.** UV can damage your cord causing premature wear.
- **KEEP YOUR CORD HYDRATED.** It is best to soak your cord in water for at least 3 days before using.

## Installing the Battery

1. Open the Battery Cover and insert the Battery into the Mower (**Figure 6**). Ensure the Battery is pushed in completely so the Latch locks it in place.
2. Ensure that the Safety Key is inserted into the Key Slot.

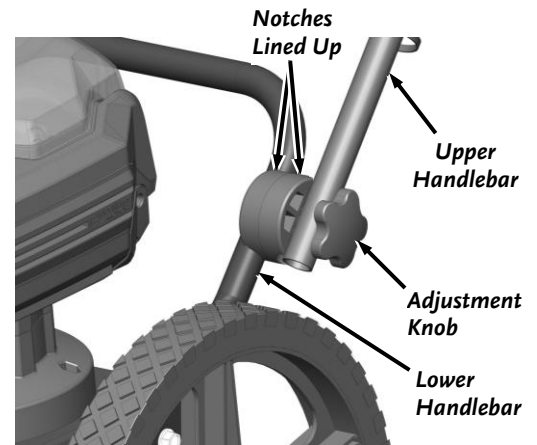


Figure 4

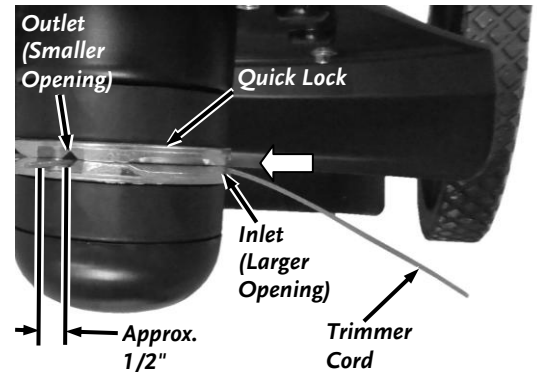


Figure 5

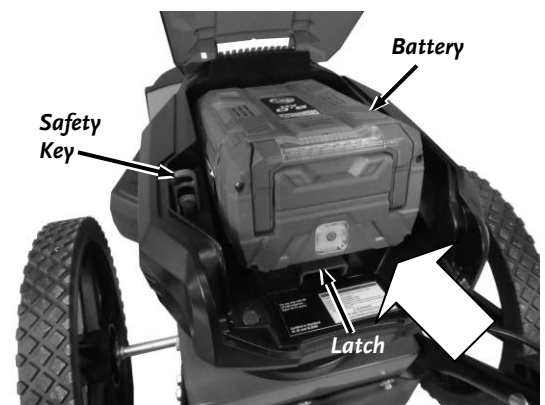


Figure 6

## Chapter 3: Operating the DR PULSE TRIMMER/MOWER

### WARNING

- The design of your machine is for trimming and mowing grass, weeds, and other growth as specified in this manual. Do not use it for any other purpose as it could cause serious injury.
- Contact with internal rotating parts will cause serious personal injury. Never put hands, face, feet, or clothing under the trimmer/mower deck or discharge opening at any time.
- Before performing any adjustments to the trimmer cords or any other procedure or inspection, release the bail bar to stop the motor, and remove the battery and safety key to prevent accidental starting.

### *Before Operating the DR Pulse Trimmer/Mower*

#### CAUTION

It is important for proper operation to keep the top, side vents, and bottom vents of the power unit clear of grass and debris so it can pull air through to stay cool. If the power unit vents are clogged, it could overheat causing damage.

1. Remove any debris buildup from the Power Unit, especially the side vents and bottom vents at the underside of the machine.

### *Engaging the Trimmer Head*

1. Hold the Bail Bar Engage Button down with one hand as you pull the Bail Bar to the Handlebar with the other hand (**Figure 7a and 7b**).
2. Release the Bail Bar Engage Button while still holding the Bail Bar to the Handlebar to keep the Blade spinning.

### *Stopping the Trimmer Head*

1. Release the Bail Bar from the Handlebar. The Motor will stop and the Trimmer Head will stop spinning.

### *Engaging the Traction Drive (Self Propel model only)*

Only use the highest speed setting for transporting. Use the low speed setting for trimming to better anticipate when to release the Traction Drive Lever.

1. Adjust the Speed Control Dial to the desired speed (**Figure 7b**).
2. Push the Traction Drive Lever to the Handlebar to move forward.
3. Release the Traction Drive Lever to stop the mower forward motion.

**Note:** After releasing the Traction Drive Lever, the machine must be manually pushed forward. This will disengage the internal ratchet and allow for freewheeling in reverse. It is recommended to avoid engaging the self propel for short "in-and-out" bursts.

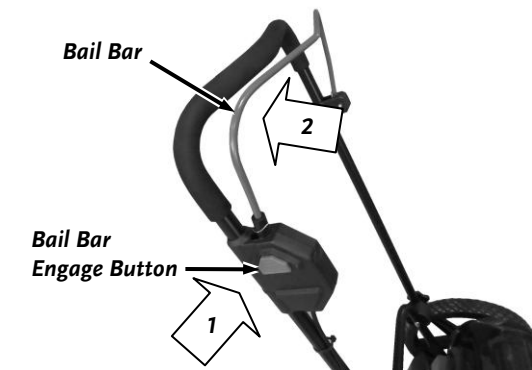


Figure 7a (Non Self Propelled)

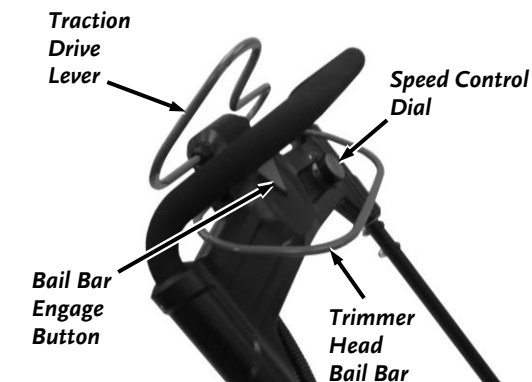


Figure 7b (Self Propelled)

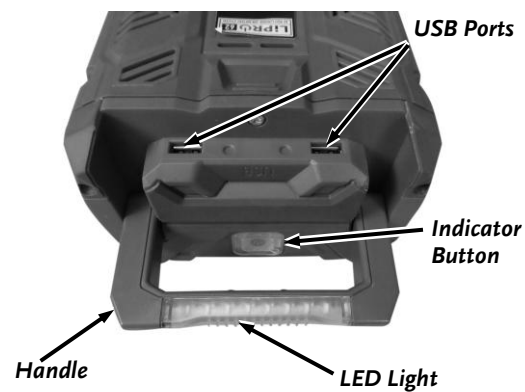


Figure 8

## ***Additional features***

### **USB Charge Ports**

The Battery can be used to charge/operate phones or other electronic devices that use a USB cord.

1. Remove the Battery from the tool.
2. Flip the Handle to the open position (**Figure 8**)
3. Plug the device into one of the USB Ports of the Battery.

### **LED Light**

The Battery flip Handle LED Light is a convenient tool that can be used as a portable light source.

1. Remove the Battery from the tool.
2. Flip the Handle to the open position (**Figure 8**).
3. Press and hold the Indicator Button until the light turns on.
4. When finished, press and hold the Indicator Button until the light turns off.

## Head Height Adjustment

**Note:** The following steps change the cutting height by 3/4" increments. The middle cutting height is shown in Figure 9. The highest setting is shown in Figure 10. The lowest setting is shown in Figure 11.

### Tools and Supplies Needed:

- Phillips head Screwdriver with at least a 6" shank
- Gloves

1. Align the hole in the Anti Wrap Canister with the hole in the internal housing at the location shown (**Figure 9**).
2. Insert a Philips Head Screwdriver into the hole in the Anti Wrap Canister and the hole in the internal Housing.
3. Rotate the Mow-Ball® Assembly until the Screw Driver slides into a hole in the shaft, locking it into place.
4. Looking up at the bottom of the Mow-Ball®, turn it counterclockwise until it unscrews completely from the Bearing Housing (**Figure 10**).

**Note:** If the Mow-Ball® continues to turn, but does not come off, check to be sure that you locked the Screwdriver into the shaft.

If the Mow-Ball will not turn by hand a 9/16" Socket can be used on the Bolt (inside the bottom of the Mow-Ball) to loosen it. You may need to clean grass or debris out of the recess in the Mow-Ball first.

5. Slide the Quick Lock, Adapter, and Molded Spacers off the Shaft (**Figure 11**).
6. The Anti-Wrap Can and metal Spacer should remain on the Shaft with the Screwdriver.
7. Install the Molded Spacers and Quick Lock with Adapter in the required order to achieve the desired cutting height.
8. Place the Mow-Ball Bolt into the hex cavity of the Mow-Ball® so it is going up through the top of the Mow-Ball®.
9. Looking up from the bottom of the Mow-Ball®, hold the Bolt Head in place with your finger and turn the Mow-Ball clockwise to start the Bolt into the Shaft (**Figure 10**).
10. Tighten the assembly securely by turning the Mow-Ball® clockwise until hand tight.
11. Remove the Screwdriver.

**Note:** When finished, there should be no gaps between any of the components.

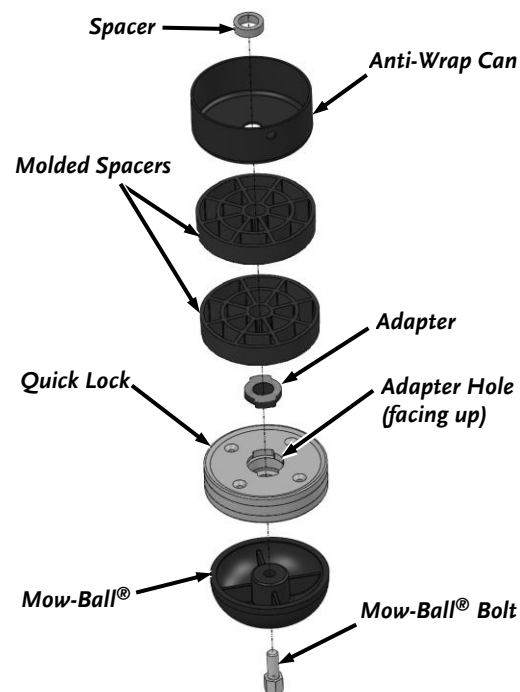
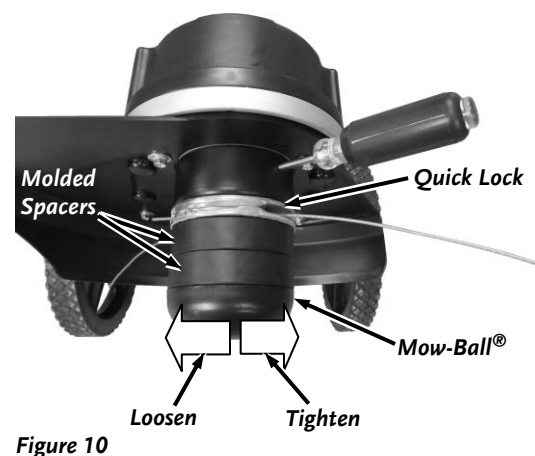
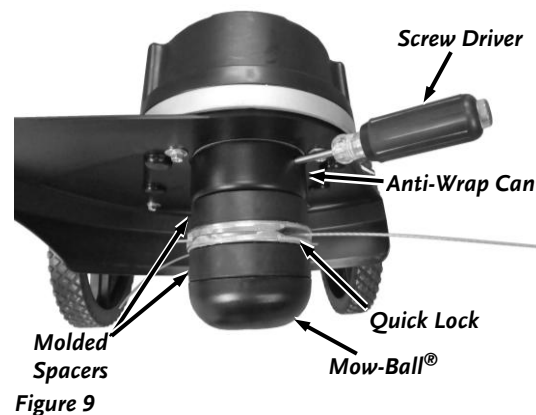


Figure 11

## ***Cord Maintenance***

- Soak your Cutting Cord in a bucket of room temperature water for a few days before use to make it more pliable. Storing the Cord in a plastic bag with a damp sponge or cloth will help keep it pliable.
- Cord life depends on trimming conditions. Replace Cords when they become broken or frayed.
- Ease the ends of the Cord into heavy growth and move slowly through thick growth. If there are woody weeds in the material you are cutting, the cutting Cords may wrap around the stalks they cannot cut and pull away from the Trimmer Head.
- UV light can degrade cord, do not store in direct sunlight.

## ***The Mow-Ball®***

Allow the front end of the machine to rest lightly on the Mow-Ball® or keep the Mow-Ball® raised slightly above the ground as you are trimming. When mowing the Mow-Ball® should glide on the ground as you maneuver the machine. To achieve the best and smoothest cut, do not lift up on the Handlebar while operating your DR PULSE TRIMMER/MOWER. Lifting the Handlebar will force weight down on the Mow-Ball®. This uses more energy, slows the cutting, and produces an unsatisfactory cut.

## ***Obstacles***

Dealing with obstacles in the terrain is easy with your new DR PULSE TRIMMER/MOWER. The following section explains how to approach most common obstacles.

**Tip:** The DR PULSE TRIMMER/MOWER discharges cut material to the right. Always try to cut and trim with the uncut tall grass or weeds on the left.

## **WARNING**

The trimmer power unit's energy can easily throw stones, sticks, and other debris at great velocity, which could cause personal injury or property damage. Do not run the machine over gravel driveways or over loose stones or mulch with the trimmer head spinning.

- Always check your work area before trimming and remove any debris that might tangle or damage the machine.
- If you do run into debris and the Trimmer becomes tangled, release the Bail Bar to stop the trimmer head before attempting to untangle the machine.
- For the neatest appearance, do your trimming first, discharging clippings away from borders and shrubs, then do your mowing.
- Many owners like to mow easy, open areas with their regular riding or walk-behind mower and finish trimming all the odd and hard-to-reach spots with the DR PULSE TRIMMER/MOWER.

## ***Heavy Growth***

- Take your time in heavy growth.
- Be sure to keep uncut material to your left, maintaining a clear discharge area to your right.
- If the machine cannot do it all in one pass, overlap half of the cutting swath.
- If the grass is very thick and heavy, try raising the Trimmer Head off the ground a few inches by pushing down on the Handlebar. Cut the material at this height and then make a second pass with the Mow-Ball® close to the ground.
- Ease the DR PULSE TRIMMER/MOWER into denser growth. If the material is too tough or woody to cut, the Cutting Cords will wrap around it, wear down, or even break off.
- Sometimes the growth is so heavy you cannot mow it in rows. Use a forward and back “vacuum cleaner” motion in these cases.

**Tip:** Use the “two pass”, one half overlap method, whenever possible.

## ***Wet Conditions***

---

### **WARNING**

DO NOT use the DR Trimmer/Mower in rain or in wet/damp conditions. The machine may be damaged and wet conditions are hazardous for the operator.

---

## ***Very Dry Conditions***

---

### **NOTICE**

When trimming and mowing in very dry conditions, be extra cautious of cut grass, chaff, weeds, seeds, etc., accumulating on the Motor, especially around the air vent openings at the sides and bottom of the Motor.

---

## ***Slope Operation***

---

### **WARNING**

Slopes are a major factor related to slip and fall accidents, which can result in severe injury. Operation on all slopes requires extra caution. If you feel uneasy on a slope, do not mow it.

- Mow across the face of slopes; never up and down. Exercise extreme caution when changing direction on slopes.
  - Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could cause a slip and fall accident. Tall grass can hide obstacles.
  - Do not mow wet grass on slopes. Poor footing could cause a slip and fall accident.
  - Do not mow near drop-offs, ditches, or embankments. You could lose your footing or balance.
- 

## ***DR Trimmer/Mower Storage (Between Use)***

---

### **WARNING**

- Always Store Idle Appliances Indoors: When not in use, the DR Pulse Trimmer/Mower should be stored indoors in dry and high or locked-up place.
  - Always store the DR Trimmer/Mower out of reach of children.
-

## Chapter 4: Maintaining the DR PULSE TRIMMER/MOWER

### WARNING

- Before performing any maintenance procedure or inspection, release the bail bar to stop the motor and remove the battery and safety key to prevent accidental starting.
- Any maintenance or repairs not listed in this section should be performed by an authorized service representative.

### Regular Maintenance Checklist

**Note:** Consider that the service intervals shown are the maximum under normal operating conditions. Increase frequencies under extremely dirty or dusty conditions.

| PROCEDURE                                                                                                    | BEFORE EACH USE | EVERY 25 HOURS | EVERY 50 HOURS | EVERY 100 HOURS |
|--------------------------------------------------------------------------------------------------------------|-----------------|----------------|----------------|-----------------|
| Check Battery power                                                                                          | ▲               |                |                |                 |
| Clean Power Unit vents (and Transmission Vents for Self Propel models) and remove collected grass trimmings* | ▲               |                |                |                 |
| Check General Equipment Condition, e.g. Nuts, Bolts, Welds, etc.                                             | ▲               |                |                |                 |
| Replace broken or frayed Cutting Cords                                                                       | ▲               |                |                |                 |
| Check the Mow-Ball® Line Plates for excessive wear                                                           | ▲               |                |                |                 |
| Check the Trimmer Belt for wear, damage and stretching                                                       |                 | ▲              |                |                 |
| Remove the Trimmer Guard (and Transmission Guard for Self Propel models) and clean out any collected debris  |                 | ▲              |                |                 |
| Remove Wheels to clean and re-grease (Self Propel models)                                                    |                 | ▲              |                |                 |
| Replace the Trimmer Belt                                                                                     |                 |                | ▲              |                 |

\* Cleaning the top of the Motor during use is critical for proper air flow. Keeping the Motor clear of debris is necessary for optimum performance.

### Replacing Trimmer Cords

#### NOTICE

- Use DR Power Equipment .09" Cord provided with your DR Pulse Trimmer/Mower for best results. Never use larger cord or materials such as metal wire, rope, etc.
- Always make sure to install both Trimmer Cords and ensure they are the same length. Not having both Cords installed and/or at the same length will cause excessive vibration and could damage the machine.
- If you have purchased Trimmer Cord in a roll, ensure that you cut it in lengths of 11". This will give you the correct cutting width of 18" when two Cords are installed. Longer or shorter Cord length could damage the machine.

**Note:** The Cord can only move through the Quick Lock in one direction (**Figure 12**). To remove it you must pull it from the other side of the Holder (where the 1/2" end is).

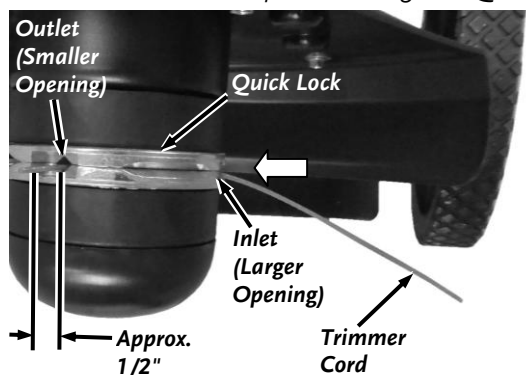


Figure 12

1. Pull the remaining portion of the Trimmer Cord from the Quick Lock.
2. Insert the end of a Trimmer Cord into the inlet hole (larger slotted cutout) push it in until the end protrudes out the other side approximately 1/2".
3. Turn the Quick Lock 180 degrees and repeat the installation for the other side.



## Replacing the Mow-Ball® or Quick-Lock™ parts

### Tools and Supplies Needed:

- Phillips head Screwdriver with at least a 6" shank
- Gloves

### Disassembly

1. Align the hole in the Anti Wrap Canister with the hole in the internal housing at the location shown (**Figure 13**).
2. Insert a Philips Head Screwdriver into the hole in the Anti Wrap Canister and the hole in the internal Housing.
3. Rotate the Mow-Ball® Assembly until the Screw Driver slides into a hole in the shaft, locking it into place.
4. Looking up at the bottom of the Mow-Ball®, turn it clockwise until it unscrews completely from the Bearing Housing.

**Note:** If the Mow-Ball® continues to turn, but does not come off, check to be sure that you locked the Screwdriver into the shaft.

If the Mow-Ball® will not turn by hand a 9/16" Socket can be used on the Bolt (inside the bottom of the Mow-Ball) to loosen it. You may need to clean grass or debris out of the recess first.

5. Slide the Quick-Lock, Spacers, Anti Wrap Canister, and Spacer off the Shaft (**Figure 14**).

### Assembly

#### NOTICE

Improper installation can cause damage to the trimmer bearings. Follow these directions carefully to protect your machine from damage. Reassemble the components in the order shown for lowest cutting height (**Figure 14**).

1. Place the Spacer and Anti Wrap Canister (with the lip facing up) onto the Shaft (**Figure 14**).
2. Install the Molded Spacers, Quick Lock with Adapter hole and Adapter on top of Quick Lock onto the Shaft.

**Note:** Refer to the "Head Height Adjustment" section for adjusting the Trimmer Head cutting heights.

3. Place the Mow-Ball® Bolt into the hex cavity of the Mow-Ball® so it is going up through the top of the Mow-Ball®.
4. Looking up from the bottom of the Mow Ball®, hold the Bolt Head in place with your finger and turn the Mow-Ball® clockwise to start the Bolt into the Shaft (**Figure 13**).
5. Tighten the assembly securely by turning the Mow-Ball® clockwise until hand tight.
6. Remove the Screwdriver.

**Note:** When finished, there should be no gaps between any of the components.

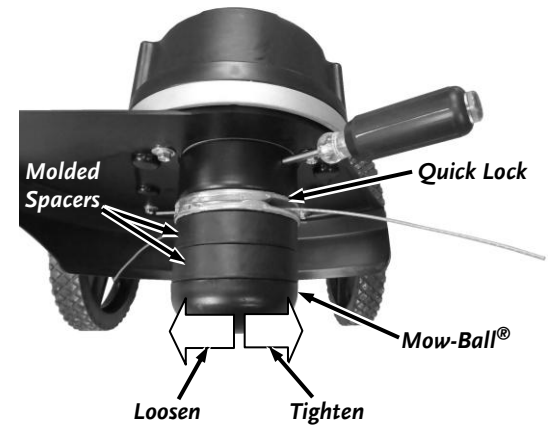


Figure 13

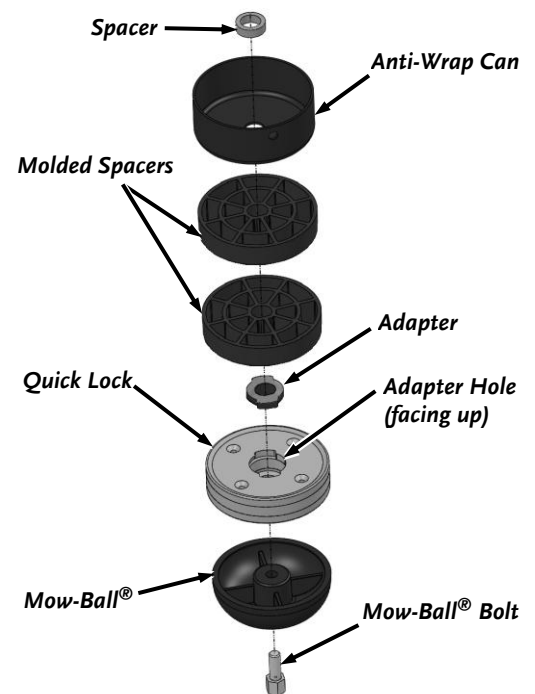


Figure 14

#### ! WARNING

Always make sure you remove the screwdriver from the head assembly when finished. Failure to remove the screwdriver could cause injury when the head assembly is engaged.

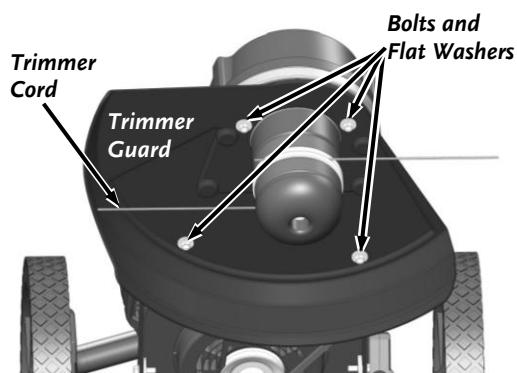


Figure 15

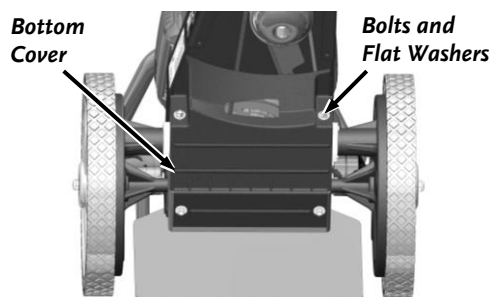


Figure 16

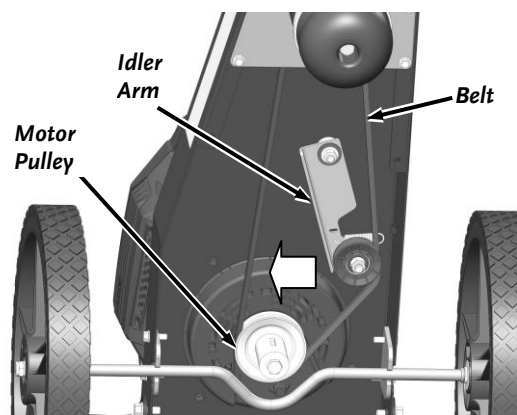


Figure 17

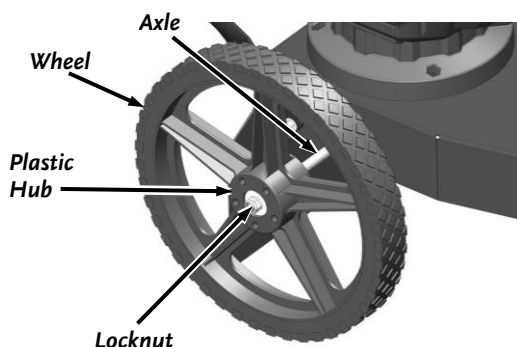


Figure 18

## Replacing the Trimmer Belt

### NOTICE

Use only DR belts on your machine. Do not use hardware store variety belts.

#### Tools and Supplies needed:

- 3/8" Wrench

1. Tip the machine back to access the underside.
2. Remove the Trimmer Cords from the Head Assembly.
3. Remove the four Trimmer Guard Bolts and Flat Washers with a 3/8" Wrench. Remove the Trimmer Guard (**Figure 15**).
4. **Self Propelled Model Only:** Remove the four Bottom Cover Bolts and Flat Washers with a 3/8" Wrench. Remove the Bottom Cover (**Figure 16**).
5. Move the Idler Arm away from the Belt and lift the Belt off the Idler Pulley (**Figure 17**).
6. Remove the Belt from around the Motor and Head Assembly Pulleys.
7. Install a new DR Drive Belt around the Motor and Head Assembly Pulleys.
8. Move the Idler in and install the Belt onto the Idler Pulley.
9. **Self Propelled Model Only:** Position the Bottom Cover and secure with the four Bolts and Flat Washers using a 3/8" Wrench (**Figure 16**).
10. Position the Trimmer Guard and secure with the four Bolts and Flat Washers using the 3/8" Wrench (**Figure 15**).
11. Install the Trimmer Cord and tip the Trimmer down on the Head Assembly.

## Replacing the Wheels (non Self Propelled Model)

#### Tool needed:

- 5/8" Wrench

1. Block and stabilize the machine so that the Wheels are off the ground.
2. Remove the Locknut using a 5/8" Wrench (**Figure 18**).
3. Slide the Wheel off the Axle.
4. Install the new Wheel and secure with the Locknut.
5. Repeat for the other Wheel.

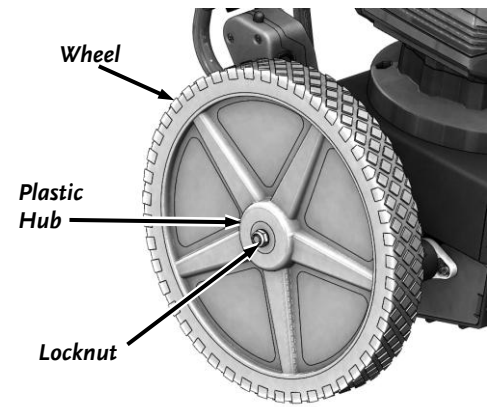
## ***Replacing/cleaning the Wheels and Greasing the Pinion gear (Self Propelled Model)***

### **Tools and Supplies needed:**

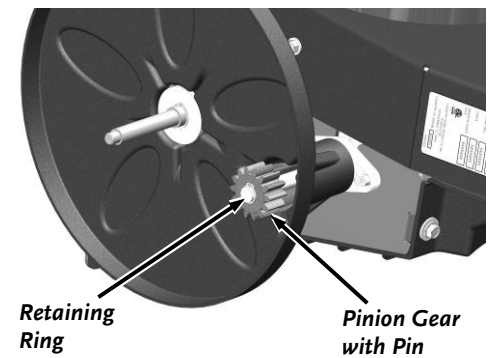
- 5/8" Wrench
- Snap Ring Pliers

**Note:** Only use mild soap and water to clean plastic parts. Degreasers or other cleaners may contain harmful chemicals that could damage the plastic.

1. Block and stabilize the machine so that the Wheels are off the ground.
2. Remove the Locknut using a 5/8" Wrench (**Figure 19**).
3. Slide the Wheel off the Axle.
4. Remove the Retaining Ring from the Transmission Shaft using Snap Ring Pliers (**Figure 20**).
5. Remove the Pinion Gear and Pin that is inside the Gear.
6. Clean the Pinion Gear and Pin.
7. Re-grease the Pin and inside of the Pinion Gear using PTFE or Silicone Based lubricant.
8. Use a mild detergent with water to clean the Gear Teeth Wheel on the inner side of the Wheel.
9. Reinstall the Pin into the shaft and slide the Pinion Gear on to capture the Pin.
10. Secure the Pinion Gear with the retaining Ring.
11. Install the Wheel onto the Axle and secure with the Locknut.
12. Lower the machine to the ground.



**Figure 19**



**Figure 20**



Figure 21

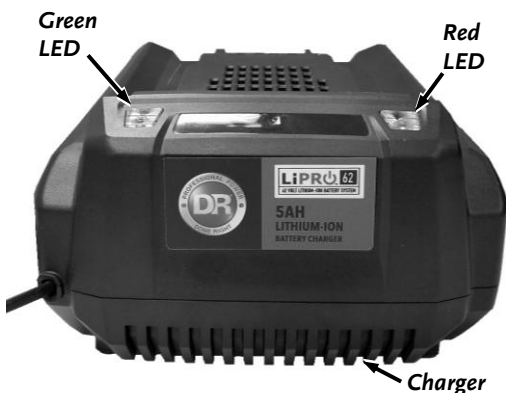


Figure 22



Figure 23

## Checking Battery Charge

1. Check the charge percentage of your 62V Battery by pushing the Indicator Button on the front of the Battery (**Figure 21**). The number of Green LED indicators will tell you the % of power left in the battery. 1 LED = 25%, 2 LEDs = 50%, 3 LEDs = 75% and 4 LEDs = 100%.
2. If you press the Indicator Button and only the fourth LED flashes, the Battery needs charging.
3. Charger indicator Lights (**Figure 22**)
4. Red LED Lit, green LED is not lit; The Charger is plugged in but the Battery is not installed (no load condition).
5. Green LED blinks, red LED is not lit; Battery is charging normally.
6. The green LED is on, red LED is not lit; Battery is fully charged.
7. Green LED is not lit, red LED blinks; There is a fault with the Battery or Charger. Remove the Battery from the Charger and wait about 30 minutes, then reinsert the Battery into the Charger.
8. If the Battery does not hold its charge for very long under normal conditions or it simply won't hold a charge, then replace it. You can purchase a replacement Battery directly from us at [www.DRpower.com](http://www.DRpower.com).

## Charging the Battery Pack

### NOTICE

- Make sure the Charger Power Supply is plugged into a normal household voltage, 120volts, 60Hz, AC only.
- You should operate the Battery Charger in a dry place with temperatures between 50°F (10°C) and +100°F (+37.8°C). Operating above +100 °F can cause Battery Pack leakage, rust, or degradation of the Battery Pack performance.

1. Connect the charger to a 120VAC outlet. When the Battery is not installed (no load condition): The Red LED will be lit.
2. Insert the Battery into the Charger (**Figure 23**). Under normal charging the Green LED will Blink.
3. When the Battery is fully charged, the Green LED will remain light, indicating that charging is complete.
4. Unplug the Charger from the Outlet and remove the Battery.

## **Battery Pack and Charger information**

The Battery Pack should not leak, regardless of the position in which it is stored. Read “Handling the Battery Pack and Charger Safely” in Chapter 1 for important warning info. The Battery Pack is completely maintenance free. You never need to add water. With all rechargeable Batteries, after years of use, they will eventually need replacement.

---

### **CAUTION**

Use only the DR® 62V Charger with DR® 62V Battery Packs. Do not try to use the DR® 62V Charger with Battery Packs from other manufacturers.

---

### **NOTICE**

- Make sure the Charger Power Supply is plugged into a normal household voltage, 120volts, 60Hz, AC only.
  - You should operate the Battery Charger in a dry place with temperatures between 50°F (10°C) and +100°F (+37.8°C). Operating above +100 °F can cause Battery Pack leakage, rust, or degradation of the Battery Pack performance.
  - Disconnect Charger Power Supply from the household voltage power when not in use to prevent damage to the Charger during a power surge.
  - Periodically inspect the Cord on the Charger unit for damage. If damage occurs, do not use the Charger until you have replaced or repaired the Cord. Do not abuse the Cord. Never carry the Charger by the Cord. Always pull the plug and not the Cord when disconnecting the Power Supply from the electrical outlet (wall outlet) and from the Charger. When using an extension Cord with your Charger, use a heavy-duty extension Cord of a type 'suitable for outdoor use' (although you should never charge the Battery Pack in the open outdoors).
  - The Battery Pack requires 2-3 charging and discharging cycles before reaching full charge ability.
  - A Battery Pack may last much longer if you charge it as soon as it starts to lose power and not let it completely discharge. Recharge the Battery Pack as soon as the trimming power of your machine is no longer effective. This would be a good time to have a spare Battery Pack ready to go. Recharge the Battery Pack for up to 75 minutes or until fully charged and remove it from the Charger.
  - A good time to consider purchasing a replacement Battery Pack is when it loses its power quickly.
- 

## **Recycling a Used Battery**

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### **NOTICE**

Please dispose of used batteries responsibly, according to your local hazardous materials regulations. Never throw away used batteries in your household trash.

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1. Please dispose of your used Batteries responsibly by recycling them. Call your local Solid Waste Management District or your local waste handler to locate the collection site nearest you. Some collection sites recycle Batteries year-round; others collect them periodically.
2. You can also visit the Website of Earth 911 ([www.earth911.com](http://www.earth911.com)) for more information. Once there, click Recycle Guide at the top of the page, then click the Municipal HHW link under Hazardous Household Waste, and enter your zip code. The site lists recycling centers located near you.
3. For a fee, you can recycle your Batteries with the International Metals Reclamation Company. Visit them at [www.inmetco.com](http://www.inmetco.com) and click Services, then click Battery Recycling; or contact them at:

INMETCO,  
One INMETCO Drive,  
Ellwood City, PA 16117,

(724) 758-5515; fax (724) 758-2845.

To learn more about hazardous waste recycling, visit the Website for Battery Council International ([www.batterycouncil.org](http://www.batterycouncil.org)) or for the Environmental Protection Agency ([www.epa.gov](http://www.epa.gov))

## Chapter 5: Troubleshooting

Most problems are easy to fix. Consult the Troubleshooting Table below for common problems and their solutions. If you continue to experience problems, contact us at [www.DRpower.com](http://www.DRpower.com) or call toll-free 1-800-DR-OWNER (376-9637) for support.

### WARNING

Before performing any maintenance procedure or inspection, release the bail bar to stop the motor and remove the battery and safety key to prevent accidental starting.

### Troubleshooting Table

| SYMPTOM                                                                                                   | POSSIBLE CAUSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>The Motor fails to start with the Safety Key and Battery installed and the Wire Trigger depressed.</i> | <ul style="list-style-type: none"><li>⇒ Check to make sure that you properly inserted the Safety Key.</li><li>⇒ Check that you installed the Battery correctly and that the Battery is fully charged. All four LEDs of the Battery Test Button should light up when pressed. If not, replace with a fully charged Battery or recharge the Battery.</li><li>⇒ Make sure you follow the correct starting sequence of pushing the Bail Bar Engage Button in first and then pulling the Bail Bar to the Handlebar.</li><li>⇒ Possibly the Blade is obstructed. Remove the Safety Key and Battery, turn the Mower over, and check the Blade to make sure the Blade spins freely and is unobstructed.</li></ul> |
| <i>The Battery Pack will not charge.</i>                                                                  | <ul style="list-style-type: none"><li>⇒ Check to see if the Battery Pack is all the way into the Charger. Insert the Battery Pack until the Green LED Light illuminates.</li><li>⇒ The Charger Power Cord is not plugged into a working outlet. Check the outlet with a lamp or other appliance.</li><li>⇒ Check to see if the outlet that you are using for the Charger Power Supply is controlled from a wall switch.</li><li>⇒ The surrounding air temperature is too hot or too cold. Move Charger and Battery Pack to a location where the surrounding air temperature is between 50°F (10°C) and +100°F (+37.8°C).</li></ul>                                                                        |
| <i>The Mower runs slow.</i>                                                                               | <ul style="list-style-type: none"><li>⇒ The Battery Pack was probably not at full charge prior to cutting. Charge the Battery Pack, if necessary.</li><li>⇒ The Grass is too tall for the mower. Set the cut height higher if the grass is of reasonable height for the Battery Mower or mow first with a DR Brush Mower.</li></ul>                                                                                                                                                                                                                                                                                                                                                                       |
| <i>The Motor doesn't have much power when you use the Mower for the first time.</i>                       | <ul style="list-style-type: none"><li>⇒ You will initially need to charge the Battery Pack before use. The Battery Pack may need to be cycled through a Charge and Discharge 2-3 times to achieve full charge potential.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <i>The Battery loses its charge quickly.</i>                                                              | <ul style="list-style-type: none"><li>⇒ The Battery Pack was probably not at full charge prior to trimming. Charge the Battery Pack, if necessary.</li><li>⇒ The Battery Pack may be getting old. After some time, you will need to replace the Battery Pack.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <i>The Mower stops while mowing (for reasons other than releasing the Bale Bar).</i>                      | <ul style="list-style-type: none"><li>⇒ The Battery Power is depleted. Recharge the Battery or install a fully charged Battery.</li><li>⇒ The Trimmer Head may be clogged with debris. Remove the Safety Key and Battery, tilt the Trimmer back onto the Handlebar and clean as needed.</li><li>⇒ If the Trimmer bogs down or stalls in heavy grass, raise the Trimmer Cord height, walk more slowly, or cut a narrower swath. If the grass is wet, let it dry before mowing.</li></ul>                                                                                                                                                                                                                   |
| <i>Excessive vibration or noise</i>                                                                       | <ul style="list-style-type: none"><li>⇒ The Cords may not be the same length or one is missing. Remove the Safety Key and the Battery; tilt the Trimmer back onto the Handlebar and adjust or replace Cords as needed.</li><li>⇒ The Mow-Ball® or a component in the Drive Belt system may be loose. Remove the Safety Key and Battery, tilt the Trimmer back onto the Handlebar and adjust or replace parts as needed.</li></ul>                                                                                                                                                                                                                                                                         |

## Troubleshooting Table (Continued)

| SYMPTOM                                                                        | POSSIBLE CAUSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>The Trimmer Head won't spin or lacks power.</i>                             | <ul style="list-style-type: none"> <li>⇒ The Belt may be worn or frayed; if so, replace it.</li> <li>⇒ If none of the above helps, visit our web site at <a href="http://www.DRPower.com">www.DRPower.com</a> or call 1-800-DR-OWNER (376-9637) for assistance.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <i>The cutting Cords are difficult to install.</i>                             | <ul style="list-style-type: none"> <li>⇒ A piece of Cord or debris may still be lodged in the Quick Lock mechanism.</li> <li>⇒ The Cord is too large. Use the recommended DR Power Equipment .09" Cord in the Trimmer.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <i>The cutting Cords are breaking.</i>                                         | <ul style="list-style-type: none"> <li>⇒ The Cords may be too dry. Store Cords in a plastic bag with a damp sponge or cloth to make them less prone to breaking or soak them in a bucket of water for a few days.</li> <li>⇒ You may be trying to do too much too fast. Ease into the material you are cutting; let the Cord tips do the work. Take small bites of tall or tough vegetation. Cut half a swath at a time, keeping the cut area to the discharge or right side of the Trimmer. Go over tall material twice, the first time with the Trimmer Head tilted up and back; the second time with the Mow-Ball® on the ground.</li> <li>⇒ Make sure that you are not hitting the Cords against a stone or a chain-link fence. The Cords won't last as long against obstacles as in the open. Work on controlling the cutting pattern. With practice, you'll learn to cut closer to obstacles without hitting them.</li> <li>⇒ If none of the above helps, visit our web site at <a href="http://www.DRPower.com">www.DRPower.com</a> or call 1-800-DR-OWNER (376-9637) for assistance.</li> </ul> |
| <i>The Mow-Ball® is wearing too quickly.</i>                                   | <ul style="list-style-type: none"> <li>⇒ You may be pushing the Trimmer Head down into the ground. The DR PULSE TRIMMER/MOWER works best with a light touch, with the Mow-Ball® resting easily on the ground or slightly raised.</li> <li>⇒ You may be hitting the Mow-Ball® against rocks, concrete driveways, or other hard obstacles. Try approaching them slowly, and from different directions, to avoid unnecessary wear.</li> <li>⇒ If none of the above helps, visit our web site at <a href="http://www.DRPower.com">www.DRPower.com</a> or call 1-800-DR-OWNER (376-9637) for assistance.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <i>Self Propel Trimmer Wheels lock up when pulling the Trimmer in reverse.</i> | <ul style="list-style-type: none"> <li>⇒ After releasing the Traction Drive Lever, the machine must be manually pushed forward. This will disengage the internal ratchet and allow for freewheeling in reverse. It is recommended to avoid engaging the self propel for short "in-and-out" bursts.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <i>Self Propel does not engage.</i>                                            | <ul style="list-style-type: none"> <li>⇒ Check Transmission for debris. Ensure the Housing is free of debris and airflow is unobstructed.</li> <li>⇒ Check all Wire connections and ensure there is no damage to wires, connections, or Pins.</li> <li>⇒ Ensure Battery and Safety Key are properly installed.</li> <li>⇒ Inspect Wheels and Pinion Gear for proper operation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Self Propel Transmission operating but Wheels do not spin.</i>              | <ul style="list-style-type: none"> <li>⇒ Ensure proper engagement by checking Wheel teeth, Pinion gears and Pin operation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Chapter 6: Parts Lists and Schematic Diagrams

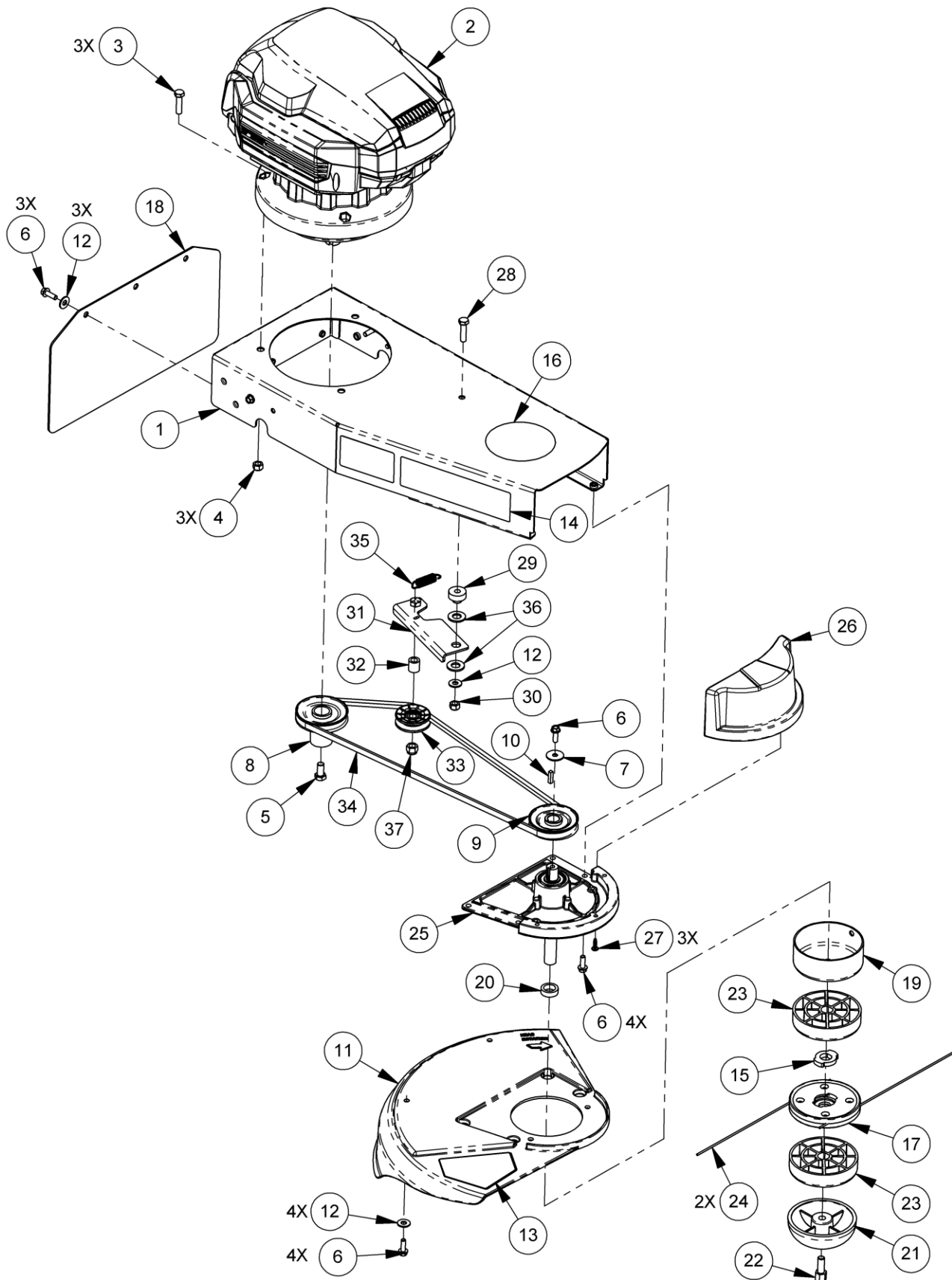
### Parts List – Main Frame Assembly

**Note:** Part numbers listed are available through DR Power Equipment.

| Ref# | Part#       | Description                                             | Ref#             | Part#       | Description                                 |
|------|-------------|---------------------------------------------------------|------------------|-------------|---------------------------------------------|
| 1    | A0000115854 | Frame, Trimmer w/Labels (Non Self Propel)               | 25               | 376241      | Spindle                                     |
|      | A0001005000 | Frame, Trimmer w/Labels (Self Propel)                   | 26               | 335781      | Cover, Spindle                              |
| 2    | A0000116959 | Electric Powerhead w/Label, 62V, 850W (Non Self Propel) | 27               | 323421      | Screw, 10-14 X 5/8", Plastite, 48-2         |
|      | A0001172186 | Electric Powerhead w/Label, 62V, 850W (Self Propel)     | 28               | 123361      | Bolt, HCS, 5/16-18 X 1-1/4", GR5, ZP        |
| 3    | 302451      | Bolt, HHCS, M8-1.25 X 30, CLASS8 ZP                     | 29               | A0000253449 | Standoff, Clutch Arm                        |
| 4    | 333421      | Nut, Nylon Lock, Flanged, M8-1.25, CL8, ZP              | 30               | 110761      | Nut, Nylon Lock, 5/16-18, ZP                |
| 5    | 111551      | Bolt, HCS, 3/8-24 X .75", ZP                            | 31               | 376071      | Arm, Idler                                  |
| 6    | 311171      | Bolt, HWH, 1/4 - 20 x .75", Taptite                     | 32               | 376081      | Spacer, .385" X .62" X .66"                 |
| 7    | 126971      | Washer, Fender 1/4" ID X 1" OD, ZP                      | 33               | 310921      | Pulley, Idler, 3L V-Belt, 2.0" OD           |
| 8    | 310871      | Pulley, Drive, 3L V-Belt, 7/8" Shaft                    | 34               | 376091      | Belt, V, 3L440R                             |
| 9    | 310941      | Pulley, Drive, 3L V-Belt, .67" Shaft                    | 35               | 335951      | Spring, E, .5" OD, .063" Wire, 2.0"L, ZP    |
| 10   | 119141      | Key, Sq, 3/16" X 3/4"                                   | 36               | 143751      | Washer, .505" ID X 1.0" OD, Plastic         |
| 11   | A0000115855 | Guard w/Labels, Trimmer, 18"                            | 37               | 110751      | Nut, Nylon Lock 3/8-16, ZP                  |
| 12   | 112381      | Washer, Flat, 1/4"                                      | <b>Not Shown</b> |             |                                             |
| 13   | 136491      | Label, Danger                                           |                  | A0000057739 | Label, Safety, 62V Powerhead                |
| 14   | 148231      | Label, Safety Icons                                     |                  | 414241      | DR 62V 5AH Battery                          |
| 15   | 344031      | Adapter, Cord Plate                                     |                  | 414221      | DR 62V 5AH Battery Charger                  |
| 16   | A0000188794 | Label-Dr Logo-4 In-Die Cut                              |                  | 420621      | Screw, Tapping, Hexalobular Socket Pan Head |
| 17   | 343881      | Quick Lock                                              |                  | A0000115848 | Lid, Battery Cover, Powerhead               |
| 18   | 376251      | Guard, Debris (Non Self Propel)                         |                  | A0000115849 | Cover, Wire Port, Right Powerhead           |
|      | 311051      | Guard, Debris (Self Propel)                             |                  | A0000115850 | Cover, Wire Port, Left Powerhead            |
| 19   | 310981      | Can, Anti-Wrap                                          |                  | A0000115851 | Gasket, Wire Harness, w/Hole                |
| 20   | 310991      | Spacer, .680" X .984" X .310", ZP                       |                  | A0000115852 | Gasket, Wire Harness, no Hole               |
| 21   | 311011      | Mow Ball, Hex Recess                                    |                  | A0000115853 | Key, With Rope Tether, Powerhead            |
| 22   | 313011      | Bolt, 3/8-16 X 1", GR5, ZP, High Hd                     |                  | A0000175155 | Label-T4X Pulse 62V                         |
| 23   | 10000045280 | Spacer, 2-Line Quick Lock Head                          |                  | A0000898457 | Label, T4X PULSE (Self Propel)              |
| 24   | 10000044511 | Cord Pack, 11", 48 Pcs                                  |                  |             |                                             |



## Schematic – Main Frame Assembly

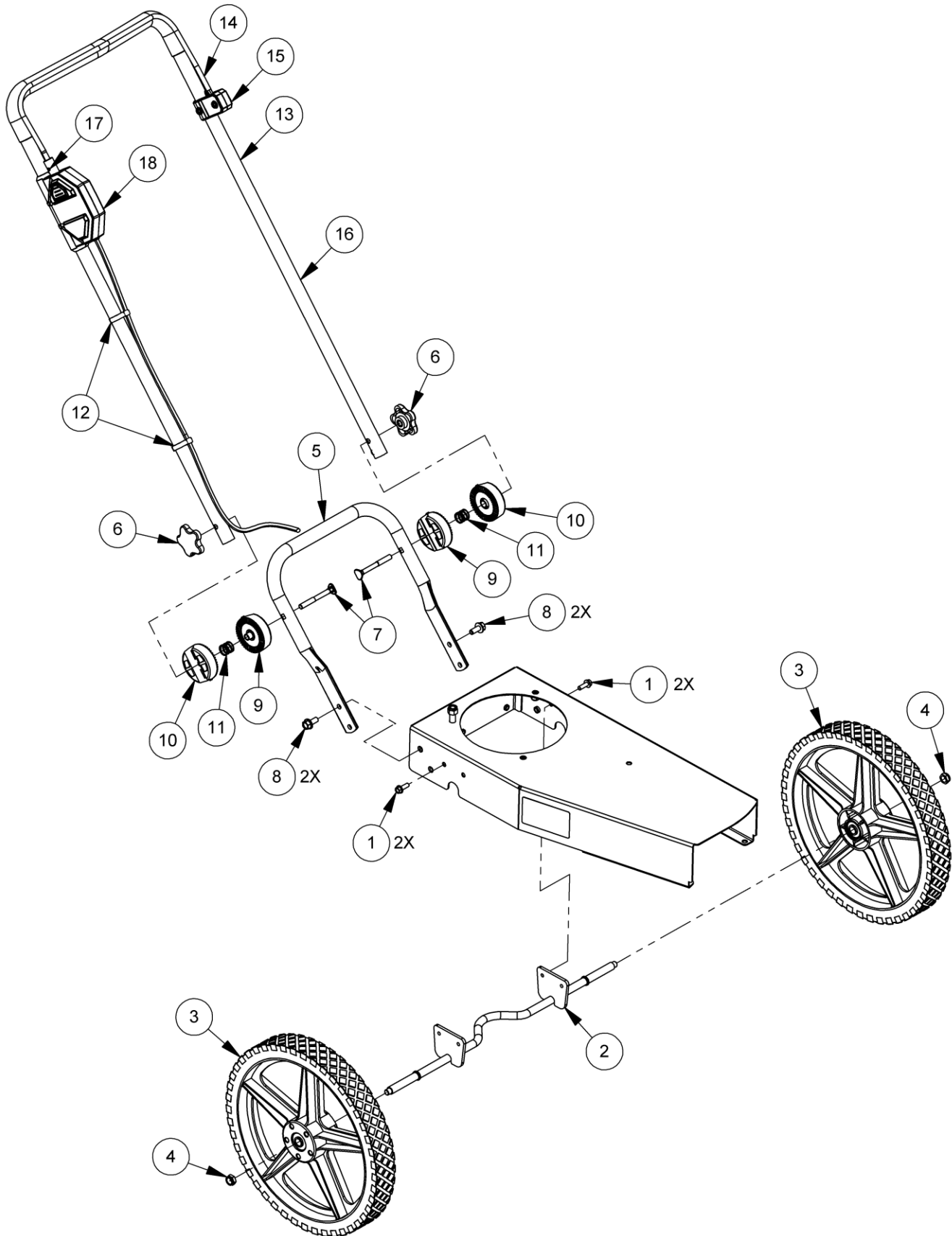


## **Parts List – Handlebar and Axle Assembly (Non Self Propelled)**

**Note:** Part numbers listed are available through DR Power Equipment.

| <b>Ref#</b> | <b>Part#</b> | <b>Description</b>                    | <b>Ref#</b> | <b>Part#</b> | <b>Description</b>                          |
|-------------|--------------|---------------------------------------|-------------|--------------|---------------------------------------------|
| 1           | 311171       | Bolt, HWH, 1/4 - 20 X .75", Taptite   | 10          | 143731       | Adjuster, Handlebar, Outside                |
| 2           | A0000255795  | Axle, Welded                          | 11          | 143931       | Spring, C, .75OD, .063 Wire, .63L, ZP       |
| 3           | 311081       | Wheel, 14", 5 Spoke                   | 12          | 420911       | Wire Clamp                                  |
| 4           | 152331       | Nut, Nylon Lock, 7/16-20, Low Profile | 13          | 10000045939  | Handlebar, Assembly                         |
| 5           | A0001036774  | Handlebar, Lower                      | 14          | A0000115845  | Bail Bar, Ergonomic                         |
| 6           | 311121       | Knob, 2.25" Dia, 5/16-18 Insert       | 15          | A0000115844  | Bail Bar Housing and Return Spring Assembly |
| 7           | 144641       | Bolt, C-Hd, 5/16-18 X 3.0"            | 16          | A0000115846  | Handlebar w/Foam                            |
| 8           | 311161       | Screw, HWH, 5/16-18 X 3/4", Taptite   | 17          | A0000116176  | Pin, Cotter, 1 mm X 25 mm ZP                |
| 9           | 191351       | Adjuster, Handlebar, Inside           | 18          | A0000115842  | Switch Box Assembly w/ Wire Harness         |

## ***Schematic – Handlebar and Axle Assembly***

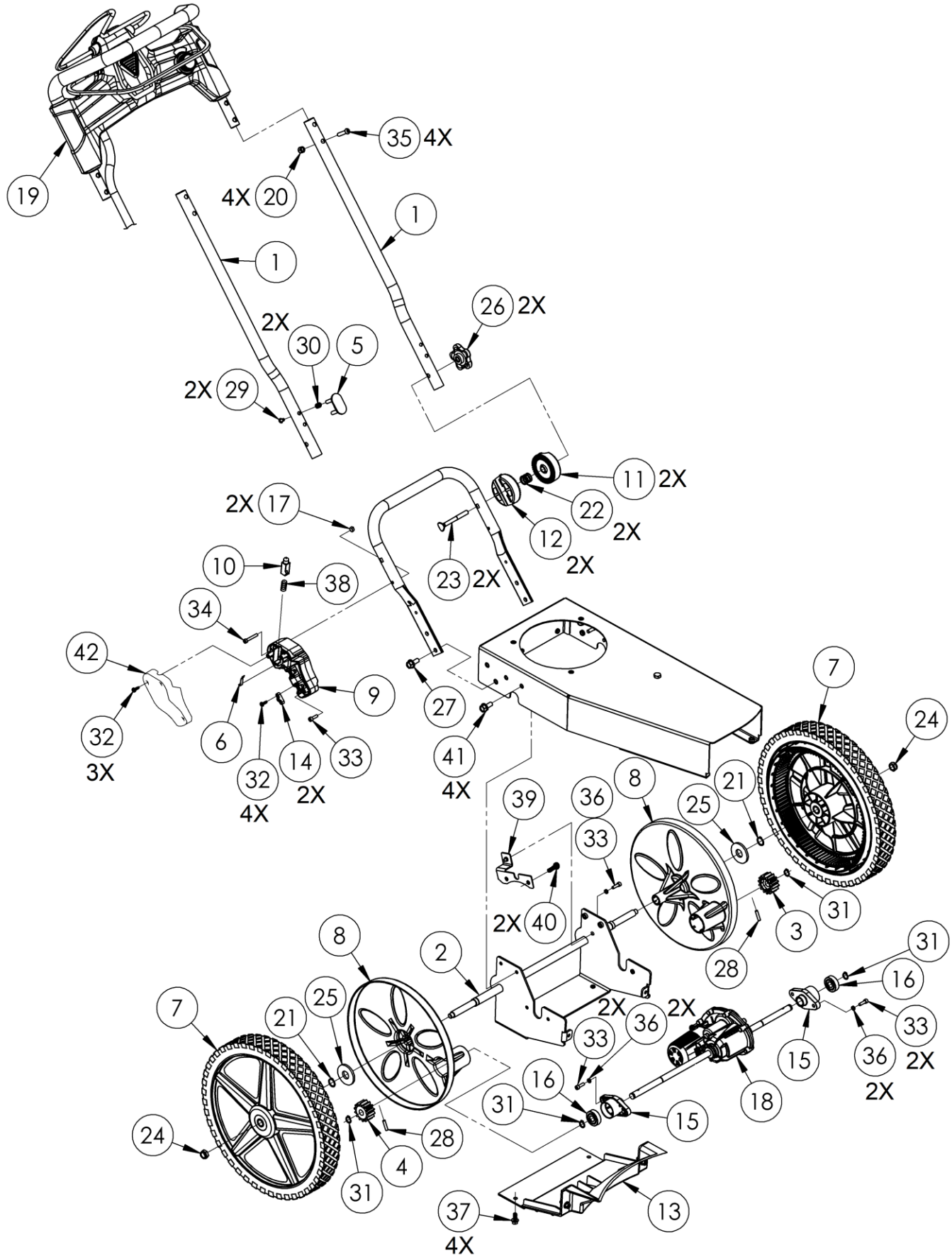


## Parts List - Wheel Drive Assembly (Self Propelled Model)

**Note:** Part numbers listed are available through DR Power Equipment.

| Ref# | Part#       | Description                               | Ref# | Part#       | Description                            |
|------|-------------|-------------------------------------------|------|-------------|----------------------------------------|
| 1    | A0000994834 | Handlebar, Upper                          | 23   | 144641      | Bolt, C-Hd, 5/16-18 X 3"               |
| 2    | A0000994843 | Frame, Transmission                       | 24   | 152331      | Nut, Nylon Lock, 7/16-20, Lowpro       |
| 3    | 422691      | Gear, LH, SP                              | 25   | 157451      | Washer, Flat, 5/8", USS                |
| 4    | 422631      | Gear, RH, SP                              | 26   | 311121      | Knob, 2.25" Dia., 5/16-18 Insert       |
| 5    | A0000994850 | Plate, Button, SP                         | 27   | 311161      | Bolt, HWH, 5/16-18 X .75", Taptite, ZP |
| 6    | A0000869210 | Switch Box Shrapnel                       | 28   | 422641      | Pin, 5mm Dia. X 24mm Long              |
| 7    | A0000528538 | Wheel, 14", SP                            | 29   | A0000923954 | Screw, BHCS, 10-32 X .375"             |
| 8    | A0000528540 | Cover, Wheel, 14", SP                     | 30   | A0000923956 | Spring, Button Plate                   |
| 9    | A0000656885 | Enclosure, Bottom, Switch Assy            | 31   | A0000923957 | Ring, Retaining, 12mm                  |
| 10   | 422801      | Telescopic Play Button                    | 32   | A0000923959 | Screw, Plastite, 6-19 X 1/2", 18-8     |
| 11   | 143731      | Adjuster, Handlebar Outside               | 33   | A0000923961 | Bolt, SHCS, 10-24 X .625"              |
| 12   | 191351      | Adjuster, Handlebar Inside                | 34   | A0000746265 | Bolt, SHCS, 10-24 X 1.25"              |
| 13   | 323371      | Cover, Bottom, SP                         | 35   | A0000970013 | Bolt, BHCS, 1/4-20 X 1.25"             |
| 14   | 421201      | Plate, Cable Pressing                     | 36   | A0000937683 | Washer, Lock, 10                       |
| 15   | 421691      | Base, Bearing                             | 37   | 365211      | Bolt, Hex Flange, 1/4-20 X 5/8", ZP    |
| 16   | 422651      | Bearing, Ball, Deep Groove                | 38   | 422810      | Spring, Button return                  |
| 17   | 118731      | Nut, Nylon Lock, 10-24                    | 39   | A0000994844 | Bracket, Transmission                  |
| 18   | A0000640118 | Transmission                              | 40   | A0000973797 | Screw, T25, M5-1.8 X 12                |
| 19   | A0000640123 | Handlebar Assy, Upper                     | 41   | 311171      | Bolt, HWH, 1/4 - 20 X .75", Taptite    |
| 20   | 110731      | Nut, Nylon Lock, 1/4-20                   | 42   | A0000656880 | Enclosure, Top, Switch Assy            |
| 21   | 111241      | Ring, Retaining, 5/8"                     |      |             |                                        |
| 22   | 143931      | Spring, C, .720" OD, .063 Wire, 0.63" ,ZP |      |             |                                        |

## Schematic - Wheel Drive Assembly (Self Propelled Model)



**Notes:**

# DR<sup>®</sup> PULSE TRIMMER/MOWER™

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## 2-Year Limited Warranty

### Terms and Conditions

The DR<sup>®</sup> PULSE TRIMMER/MOWER is warranted for two (2) years against defects in materials or workmanship when put to ordinary and normal consumer use; ninety (90) days for any other use. The Battery is warranted for one (1) year.

For the purposes of all the above warranties, "ordinary and normal consumer use" refers to non-commercial residential use and does not include misuse, accidents or damage due to inadequate maintenance.

DR Power Equipment certifies that the DR<sup>®</sup> PULSE TRIMMER/MOWER is fit for ordinary purposes for which a product of this type is used. DR<sup>®</sup> Power Equipment however, limits the implied warranties of merchantability and fitness in duration to a period of two (2) years in consumer use, ninety (90) days for any other use.

The 2-Year Limited Warranty on the DR<sup>®</sup> PULSE TRIMMER/MOWER starts on the date the machine ships from our factory. The 2-Year Limited Warranty is applicable only to the original owner.

The warranty holder is responsible for the performance of the required maintenance as defined by the manufacturer's owner's manuals. The warranty holder is responsible for replacement of normally wearing parts such as the Belt, Cutting Cords, Quick-Lock, Mow-Ball<sup>®</sup>, Debris Guard, and Trimmer Guard. Accessories to the machine are not covered by this warranty.

During the warranty period, the warranty holder is responsible for the machine transportation charges, if required. During the warranty period, warranty parts will be shipped by standard method at no charge to the warranty holder. Expedited shipping of warranty parts is the responsibility of the warranty holder.

SOME STATES DO NOT ALLOW LIMITATIONS ON THE LENGTH OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

DR<sup>®</sup> Power Equipment shall not be liable under any circumstances for any **incidental or consequential damages or expenses** of any kind, including, but not limited to, cost of equipment rentals, loss of profit, or cost of hiring services to perform tasks normally performed by the DR<sup>®</sup> PULSE TRIMMER/MOWER.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

## ***Daily Checklist for the DR PULSE TRIMMER/MOWER***

To help maintain your DR PULSE TRIMMER/MOWER for optimum performance, we recommend you follow this checklist each time you use your machine.

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### **WARNING**

Before performing any maintenance procedure or inspection, release the bail-bar to stop the motor, and remove the battery and safety key to prevent accidental starting.

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- [ ] MOTOR AIR COOLING SYSTEM: It is very important to keep the Motor clean of debris. Remove grass and other built-up materials from the side and bottom air vents before, during, and after you mow. A dirty Motor retains heat and can cause damage to the internal Motor parts.
- [ ] CUTTING CORDS: Replace broken or frayed Cords.
- [ ] QUICK-LOCK Parts: Check the Quick-Lock parts for wear and replace as needed.
- [ ] GENERAL CONDITION: Check the general condition of the machine, e.g.; nuts, bolts, welds etc.

## ***End of Season and Storage***

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### **WARNING**

Before performing any maintenance procedure or inspection, release the bail-bar to stop the motor, and remove the battery and safety key to prevent accidental starting.

When not in use, your DR PULSE TRIMMER/MOWER should be stored out of the reach of children and inside at a dry location.

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- Check the Belt for wear.
- Clean any dirt and debris from the Trimmer/Mower, paying extra attention to the side vents and bottom vents of the motor (also Transmission Vents on Self Propel Models).
- Clean any dirt and debris from the battery compartment especially vent area under the battery.
- Remove any wrapped weeds from the Quick-Lock Trimmer Head, Wheel Spokes, and Axle. Clean grass and debris from the top and underneath the Trimmer Frame.
- Check to make sure the operator controls are moving freely.

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### **WARNING**

Save these instructions for future reference to ensure safe use and care of the DR PULSE TRIMMER/MOWER.

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