

DR® ELECTRIC FIELD and BRUSH MOWER

SAFETY & OPERATING INSTRUCTIONS



Model:
FB26e

Serial No. _____

Order No. _____

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

WARNING

Read and understand this manual and all instructions before operating the DR ELECTRIC FIELD and BRUSH

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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 (**Figure 1**). 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.

DR POWER EQUIPMENT	
MODEL MODELO MODELE	XXXXXXXX
SERIAL NO NU DE SERIE No DE SERIE	XXXXXXXX
POWER (KW)	XXXXXXXX
WEIGHT (KG)	XXXXXXXX
ITEM#	XXXXXXXX
MANUF DATE	XXXXXXXX
MANIF PLANT	XXXX
DR POWER EQUIPMENT 800 HINESBURG ROAD SOUTH BURLINGTON, VT 05403 Country of Origin XXXXXX XXXXXX	

Figure 1

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.

Chapter 1: General Safety Rules

WARNING

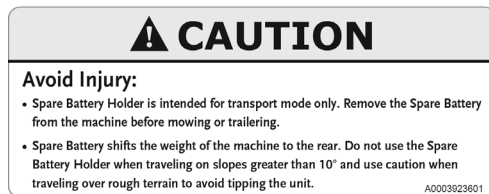
Read this safety & operating instructions manual before you use the DR ELECTRIC FIELD and BRUSH MOWER. Become familiar with the operation and service recommendations to ensure the best performance from your machine. If you have any questions or need assistance, please contact us at www.DRpower.com or call toll-free 1-800-DR-OWNER (376-9637) and one of our Technical Support Representatives will be happy to help you.

Labels

The DR ELECTRIC FIELD and BRUSH MOWER carries prominent labels as reminders for its proper and safe use. Shown below are copies of all 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 mower as you set up and before you operate the unit. Replace damaged or missing safety and information labels immediately.



#A0003882602



#A0003923601



#136491

Warnings, Cautions, and Notices

General Safety

WARNING

Safe operation of the DR ELECTRIC FIELD and BRUSH MOWER is necessary to prevent death or serious injury. Always take the following precautions when operating this machine:

- The DR ELECTRIC FIELD and BRUSH MOWER is designed to mow grass and brush. Do not use it for any other purpose.
- If the machine makes an unusual noise or vibration or if there are obstructions underneath the machine, shut off the DR ELECTRIC FIELD and BRUSH MOWER motor. Wait five (5) minutes for the motor and components to cool. Remove the battery and then inspect the machine for clogs or loose parts. Clear any obstructions and repair and/or replace damaged parts.
- The mower blades are sharp. Wrap the blades or wear gloves and use extra caution when servicing.
- Always keep the machine in good, safe operating condition. Always make certain nuts and bolts are tight. Do not use substitute hardware.
- See manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by DR Power Equipment.

General Safety (Continued)

WARNING

- Use the DR ELECTRIC FIELD and BRUSH MOWER only in daylight or very well-lit work areas.
- Be sure all blade and wheel controls are disengaged before attempting to start the motor. Engage and disengage the blade a few times to get used to it before mowing.
- Always give undivided attention to the machine and your surroundings. Watch for traffic when mowing near roadways.
- Disengage the mower blades and exercise extreme caution when on/or crossing drives, walks, or roads.
- In an emergency, to quickly stop the cutting blade, remove your hand from the operator presence lever on the left handlebar.
- Always shut off the motor whenever you leave the machine.
- When operating over uneven and/or slippery terrain, use extreme caution to ensure solid and firm footing. Keep a firm hold on the handlebars and walk, never run.
- DO NOT operate the machine when under the influence of drugs, alcohol, or medication.
- DO NOT operate the machine in rain or wet conditions.
- DO NOT douse or hose the machine with water. Avoid getting any liquid in the control switches and electrical connections.

Protecting Yourself and Those around You

WARNING

This is a high-powered machine with moving parts operating at high speeds. Always take the following precautions when operating this machine:

- Always wear protective goggles or safety glasses with side shields.
- Wear sturdy shoes with non-slip treads.
- Wear long pants while operating the mower.
- Avoid wearing loose clothing or jewelry which can catch on moving parts.
- Use ear protectors or ear plugs.
- We recommend wearing gloves while mowing. Be sure your gloves fit properly and do not have loose cuffs or drawstrings.
- Allow only responsible adults who are familiar with these safety rules and operating instructions to use your DR ELECTRIC FIELD and BRUSH MOWER.
- Keep your hands and feet away from the blades, belt, pulley, and concealed areas while the motor is running.
- Keep people and pets away from your machine and out of the work area at all times. Disengage the blade and stop the motor if a person or pet is within 100 feet of the machine.
- Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.
- Never allow people to ride on the mower.
- Before mowing, clear the area of objects such as rocks, toys, wire, bones, sticks, etc.
- Never remove or alter standard parts or add anything to the DR ELECTRIC FIELD and BRUSH MOWER, especially all shields and guards.
- Before and while moving backwards, look behind and down for small children.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure your vision.
- Use caution when mowing close to fences, buildings, and trees so as not to hit the handlebar. You could injure your hand or lose control of the machine.

Slope Operation

WARNING

Slopes are a major factor related to slip and fall accidents. All slopes require caution. If you feel uneasy on a slope, do not mow it. Always take the following precautions when using this machine on slopes:

- Always mow across the face of slopes. Exercise extreme caution when changing direction on slopes.
- Never operate near drop-offs, ditches, or embankments, or on slopes greater than 10 degrees with the spare battery installed, or 20 degrees without the spare battery installed.

Handling the Battery Pack and Charger Safely

Refer to "E-SERIES BATTERY PACK Safety & Operating Instructions" for detailed information on the Battery and Charger.

WARNING

- DO NOT use a fully discharged battery pack until it is recharged. Over discharge of the battery pack will shorten the battery life and may cause permanent damage.
- Use only the DR® E-Series 48V Charger with DR® E Series Battery Packs. Use of a different Charger may cause a fire or explosion.
- DO NOT use the DR® E-Series 48V Charger with batteries from other manufacturers or other DR® products. Use with batteries other than the DR® E-Series Battery Packs will void warranty and can lead to equipment damage, fire, serious injury or death.
- Recharge a completely discharged Battery Pack until the State of Charge (SOC) indicator light on the Battery Pack is green and shows a charge of 25% or more.
- When possible, fully charge battery packs.
- When charging the Battery Pack, use of normal household voltage (110-220 VAC) is sufficient. Plug the Charger Power Supply directly into the electrical outlet. Avoid using extension cords.
- DO NOT expose the Battery Pack or charger to rain, vapor, or liquid.
- DO NOT charge the Battery Pack below 32°F (0°C). The Battery Pack's internal BMS (battery management system) is set to prevent charging below 32°F (0°C).
- DO NOT charge the Battery Pack above 100°F (38°C). The Battery Pack's internal BMS is set to prevent charging above internal battery cell temperature of 115°F (46°C).
- DO NOT discharge the Battery Pack below +3°F (-16°C). The capacity/runtime is drastically reduced overall as it gets colder.
- Remove all battery packs from the machine when storing batteries.
- Do not store battery packs in temperatures below -4°F (-20°C).
- Store battery packs with a 50-70% State of Charge or minor cycle life reduction is possible.
- Cycle (charge and discharge) the battery packs every 3-9 months in temperatures 32°F (0°C) and above.
- Battery packs weigh 40 lbs. Use caution when lifting battery packs out of equipment.
- Do not throw or drop the battery pack.
- Secure the battery pack while transporting in a vehicle.
- Clean the exterior surface of the battery pack with damp cloth and mild detergent. DO NOT spray with water.
- DO NOT use solvents or harsh cleaning solutions when cleaning the battery packs.
- DO NOT submerge battery packs in liquid.
- Keep grass, dirt, and debris from collecting near battery pack terminals.
- DO NOT alter or open the Battery Pack or Charger.

Handling the Battery Pack and Charger Safely (Continued)

WARNING

- Breathing vapors from a ruptured Battery Pack can cause respiratory irritation. In case of inhalation of fumes, get fresh air and seek medical attention.
- DO NOT expose the Battery Pack to fire. Battery material is flammable, and 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.
- DO NOT 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.
- Batteries are considered hazardous materials and require special package labeling when being shipped. Ask parcel carrier for correct shipping labels or visit “call2recycle” website for more information (www.call2recycle.org).
- When shipping damaged batteries, be aware that packaging requirements vary depending upon the type of damage and safety risk. If you have any questions or need assistance, please contact us at 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.
- 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.

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 ELECTRIC FIELD and BRUSH MOWER in a safe manner. Contact us at www.DRpower.com or call 1-800-DR-OWNER (376-9637) for assistance.

Chapter 2: Setting Up the DR ELECTRIC FIELD and BRUSH MOWER

It may be helpful to familiarize yourself with the controls and features of your DR ELECTRIC FIELD and BRUSH MOWER as shown in **Figure 2** before beginning these procedures. If you have any questions at all, please feel free to contact us at www.DRpower.com or call toll-free 1-800-DR-OWNER (376-9637).

DR ELECTRIC FIELD and BRUSH MOWER Controls and Features

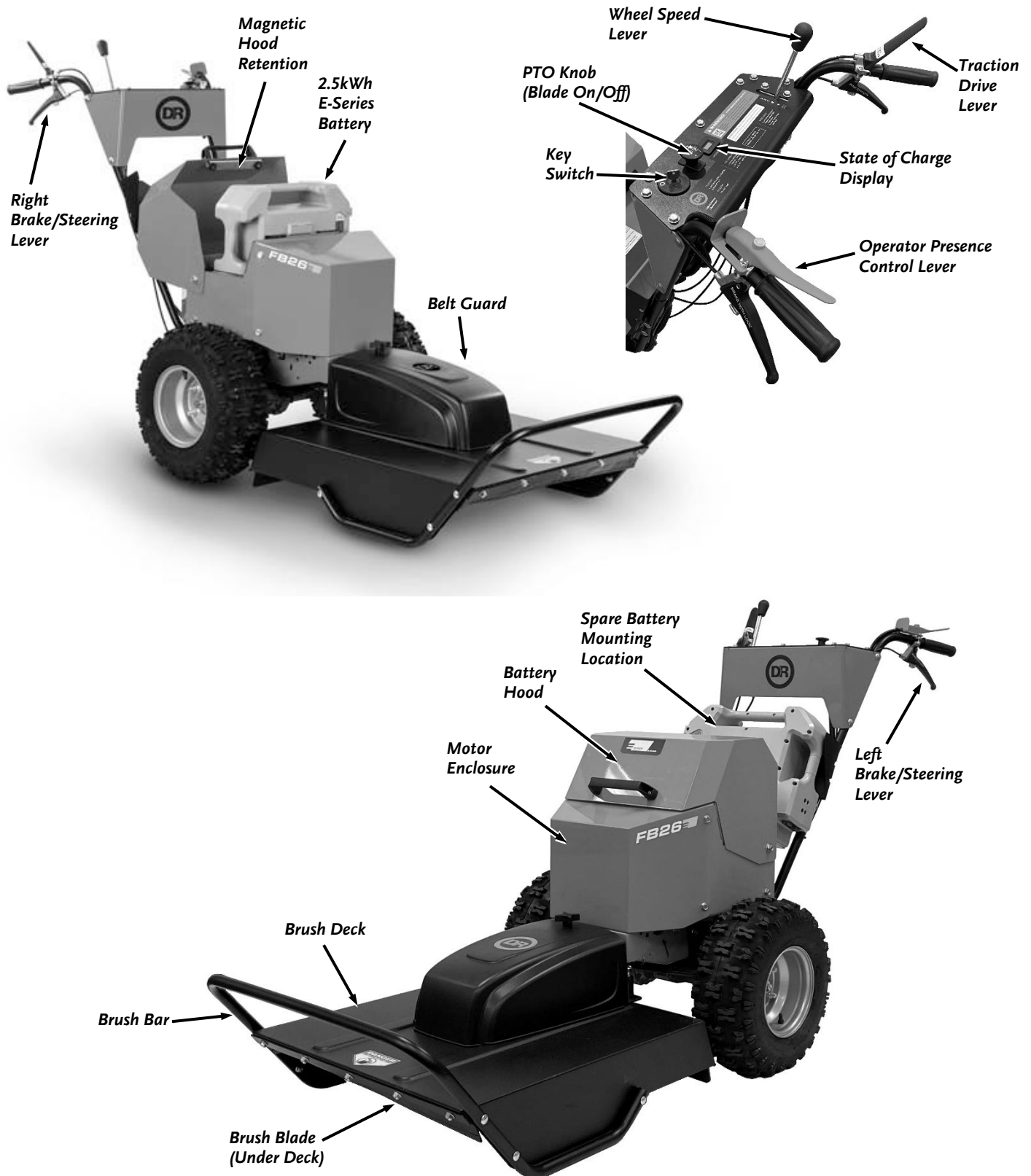


Figure 2

Specifications

	FB26e
Motor Rating	7.3kW Peak 3.7kW Continuous 24Nm Peak Torque
Battery Type	48V-52Ah Li-ion E-Series Battery Pack. (Removable/Rechargeable)
Estimated Run Times	30 Minutes - Heavy Grass 45 Minutes - Light Grass/Weeds 90 Minutes - Brush and Saplings
Cutting Capacity	4' Tall Grass 6' Tall Brush 2" Thick Saplings
Cutting Width	26"
Cutting Height	3.5"
Speeds	3 Forward 1 Reverse
Power Steering	Yes
Tires	18" x 6-1/2" x 8" All Terrain Sealant Filled
Machine Dimensions	80.5" L 30.25" W 48.2" H
Machine Weight	339 lbs. (with one battery)

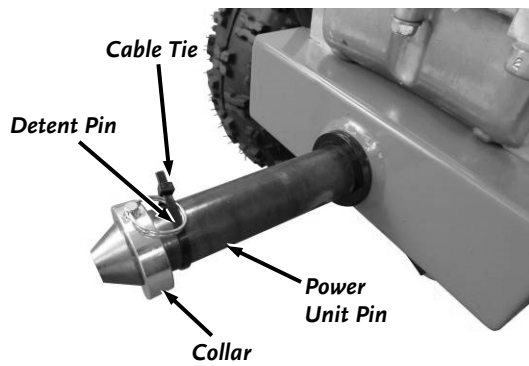


Figure 3

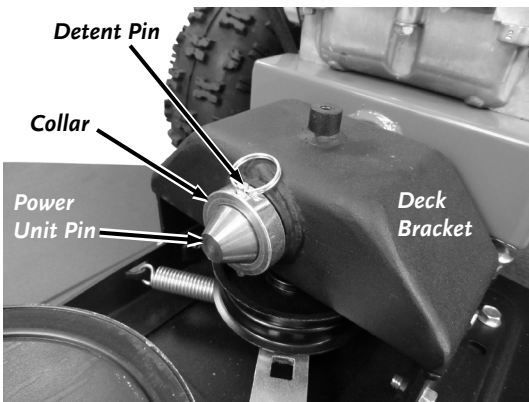


Figure 4

SETUP for DR ELECTRIC FIELD and BRUSH MOWER

Installing the Brush Deck

Tools and Supplies Needed:

- Gloves
- Wire Cutters

1. Cut Cable Tie and remove Detent Pin and Collar from Power Unit (**Figure 3**).
2. Slide the Power Unit Pin into the Deck Bracket and install the Collar and Detent Pin (**Figure 4**).
3. Remove the Belt from the Product Package.

4. Insert the belt over the Tensioner Spring and through the inside of the Deck Pivot Bracket (**Figure 5**).
5. Wrap the Belt around the Clutch Pulley under the Power Unit (**Figure 6**).

⚠ CAUTION

Your hands could get pinched when installing the Belt onto the Deck Pulley. Wear Gloves to prevent injury.

6. Start the Belt into the groove of the Deck Pulley and turn the Pulley as you guide the Belt around and into the Pulley groove (**Figure 7**).
7. Install the Belt Guard that was shipped with the machine and secure with the Knob from the product package (**Figure 8**).

Check the Tire Pressure

Tools Needed:

- Tire Pressure Gauge
- Air Compressor

1. Remove the Valve Stem Protective Cap (**Figure 9**) and check the tire pressure with a Tire Pressure Gauge.
2. Compare the tire pressure reading from Step 1 with the manufacturer's recommended tire pressure stamped on the side of the tire.
3. If the pressure is too low, add air through the Valve Stem with an air hose.

⚠ WARNING

Do not over inflate the tires. Inflate to the manufacturers recommended pressure found on the tires.

4. Replace the Valve Stem Protective Cap when finished.

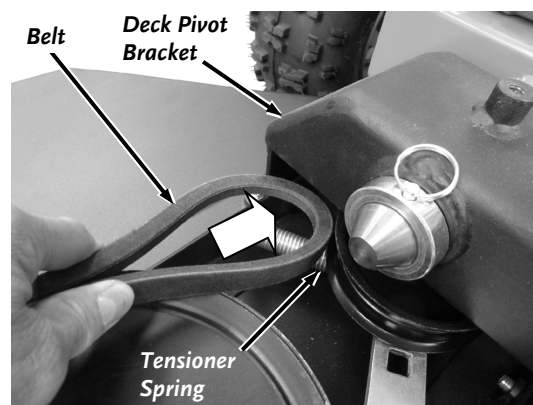


Figure 5

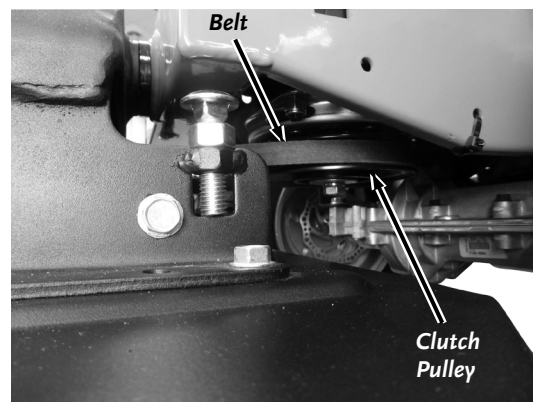


Figure 6

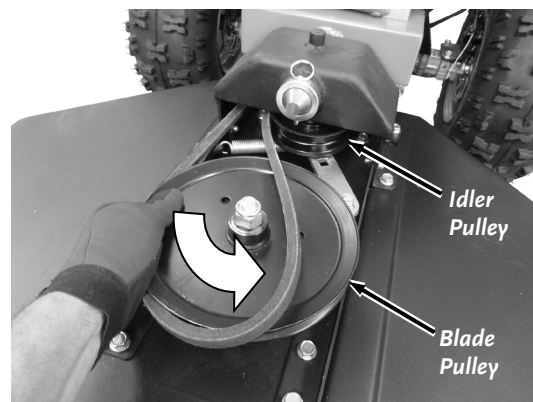


Figure 7

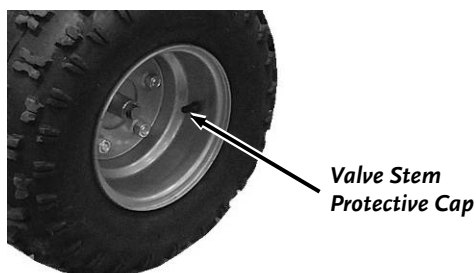


Figure 9

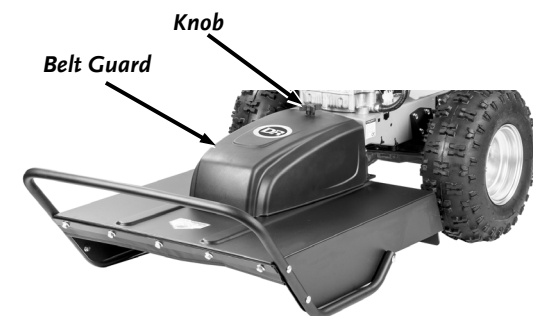


Figure 8

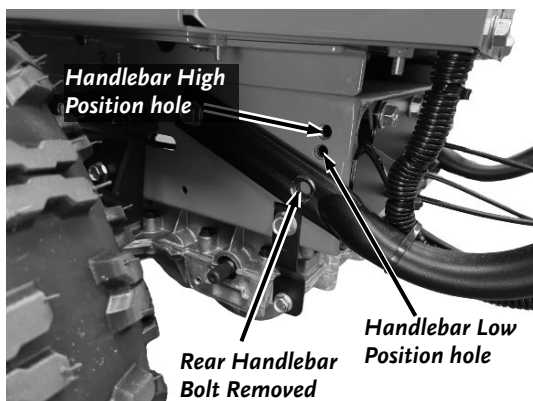


Figure 10

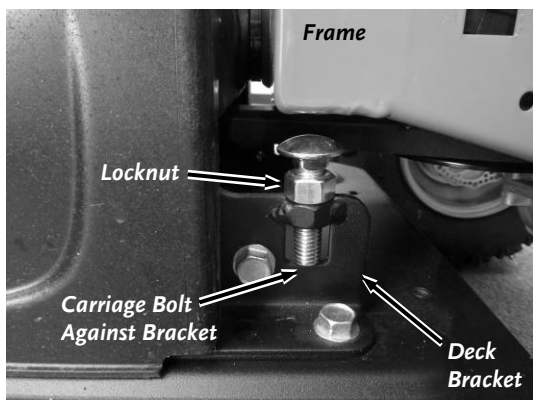


Figure 11



Figure 12

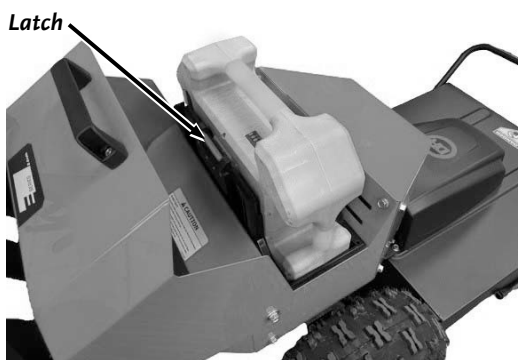


Figure 13

Handlebar Height Adjustment

We ship all DR ELECTRIC FIELD and BRUSH MOWERS with the handlebars in the highest position setting. If you would like to lower the handlebars to the Low position please follow these Steps:

Tools Needed:

- 9/16" Wrench

1. Remove Rear Handlebar Bolt with a 9/16" Wrench from both handlebars (**Figure 10**).
2. Loosen Front Handlebar Bolt on both handlebars but do not remove.
3. Align Handlebar Rear hole to Handlebar Low Position hole in the Frame.
4. Reinstall Rear Bolts on both handlebars.
5. Tighten Front and Rear Bolts on both handlebars.

Deck Pivot Bolt Check/Adjustment

There are two Deck Pivot Carriage Bolts on your DR ELECTRIC FIELD and BRUSH MOWER Deck. The machine should have been shipped with both Bolts in the lowest position (**Figure 11**). If they are not both in the lowest position, perform the following procedures.

Note: The Carriage Bolts should be adjusted all the way down for easy to moderate mowing. For aggressive mowing see "Cutting Brush and Saplings" in Chapter 3.

1. Loosen both Locknuts using a 3/4" Wrench as you hold the square portion of the Carriage Bolts using a 1/2" Wrench (**Figure 11**). Turn the Locknut up against the Bolt Head.
2. Turn the Carriage Bolts down using a 1/2" Wrench until the threaded end is contacting the Deck Bracket.
3. Turn the Locknut down against Deck Bracket and hold the Carriage Bolt as you tighten the Locknut.

Installing the Battery Pack

1. Ensure the Key is in the Off position **O**.
2. Lift up on the Handle to open the Hood (**Figure 12**).
3. Align the connector on the Battery with the connector in the Receiver and lower the Battery Pack into the Receiver. Ensure the Battery is pushed in completely so the Latch locks it in place (**Figure 13**).
4. Close the Hood.

Chapter 3: Operating the DR ELECTRIC FIELD and BRUSH MOWER

You may find it helpful to review the DR ELECTRIC FIELD and BRUSH MOWER Controls and Features in **Figure 2** on page 7 before reading this chapter.

Steering Brake Burnishing and Clutch Burnishing are very important procedures that must be done prior to using the Brush Mower to ensure optimal performance. Please read the following section to understand how to carry out these procedures before starting the machine and perform these procedures as soon as you get the machine started.

Steering Brake Break-in (Burnishing)

If your DR ELECTRIC FIELD and BRUSH MOWER is equipped with Steering Brakes, Brake Pads, and Rotors, which need to be broken in (burnished) during the first use to ensure the best performance. Please complete the following Steps before using your machine and after you have read through Chapter 3:

CAUTION

Avoid contact with the Brake Calipers and Rotors during and after this procedure because the Brake rotors will become very hot and may burn you.

1. Refer to page 12 to start the machine and shift into second gear.
2. Engage the Traction Drive Lever to drive the machine forward.
3. Apply both brakes equally with moderate force and hold the brakes on for 100 feet.
4. Release the brakes for 25 feet.
5. Re-Apply both brakes equally with moderate force and hold the brakes on for another 100 feet.

Clutch Break-in (Burnishing)

NOTICE

This machine must have the Clutch “Burnished” before initial use to ensure that the Clutch performs at its full potential. The longevity and efficiency of the Clutch will be compromised if this procedure is not performed.

The Blade Clutch on your machine should be burnished before use. This will ensure that the optimal engaging and braking action can be achieved. This procedure should be performed when the Clutch is new and before you use the machine for the first time.

1. The machine must be fully assembled and set up as detailed in this manual before performing the following burnishing procedures. Use these instructions along with the “Starting” and “Operating” sections of your manual.
2. Start the Motor.
3. Engage the Blade Clutch for two (2) seconds, disengage and let it cool down for 10 seconds.
4. Repeat Step 3 for 50 cycles to fully burnish the Clutch.

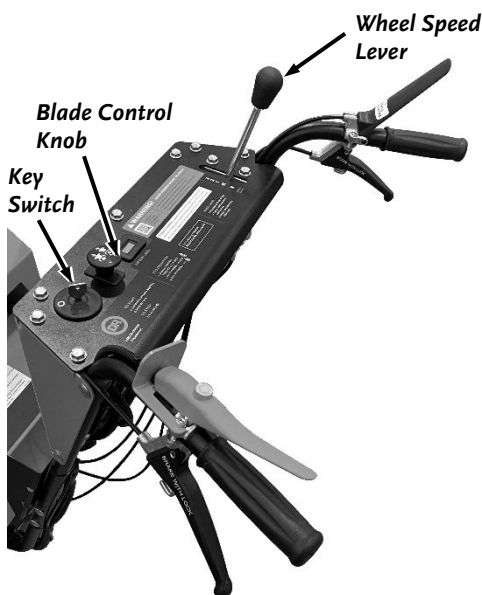


Figure 14

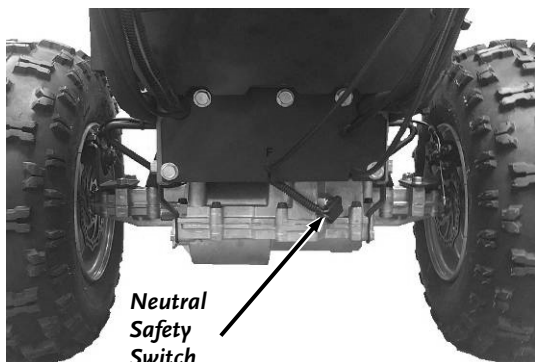


Figure 15



Figure 16

Starting the Motor

1. Move the Wheel Speed Lever to Neutral **N** and make sure the Blade

Control Knob is pushed down  (Figure 14).

Note: The Wheel Speed Lever must be in Neutral or the Motor will not start.

2. Check that the Neutral Safety Switch at the rear of the Transaxle is connected in case it has loosened during shipping (Figure 15).
3. Rotate Key to the On position **I**.

Engaging the Wheel Drive

The DR ELECTRIC FIELD and BRUSH MOWER has a three-speed Forward, single-speed Reverse Transmission. Speeds are generally used as follows:

- 1st Gear: Thick, Woody Vegetation, or Heavy Field Mowing.
- 2nd Gear: Stalky Material or Medium Field Mowing.
- 3rd Gear: Lighter Mowing or Transport Mode.

Reverse Gear is ideal for maneuvering in tight spots.

- Mowing Speed may impact cutting performance. Mowing in a slower gear will improve cut quality.
- For best operator control of the DR ELECTRIC FIELD and BRUSH MOWER, always select a drive speed that matches the conditions. For example, use a slower speed when operating in wet, heavy growth, slippery, and/or steeply sloped areas.

NOTICE

Always release the Traction Drive Lever before shifting gears to prevent damage to the Transmission.

1. Move the Wheel Speed Lever to the desired gear (Figure 16).
2. Gently push down the Traction Drive Lever to engage the Wheels.
3. Release the Traction Drive Lever if you need to slow down or stop.

CAUTION

The steering brakes WILL NOT STOP the machine if the machine is in gear and Traction Drive Lever is engaged.

Note: If you have trouble shifting while on a hill or against an obstacle; lifting one tire off the ground will release the stress in the drivetrain and ease shifting.

Transporting a Spare Battery

CAUTION

- Spare Battery Holder is intended for transport mode only. Remove the Spare Battery from the machine before mowing or trailering.
- Spare Battery shifts the weight of the machine to the rear. Do not use the Spare Battery Holder when traveling on slopes greater than 10° and use caution when traveling over rough terrain to avoid tipping the unit.

Your machine is equipped with a spare battery holder that allows you to transport a spare battery to and from your working location (**Figure 17**). This is meant to be used during transport mode only and not to be used during mowing or trailering.

- ALWAYS remove the spare battery and set it aside in a safe, dry, and shaded location before mowing.
- ALWAYS remove the spare battery before trailering the machine.
- Use caution and move slowly when traveling over rough terrain to ensure the spare battery remains retained on the machine.
- With the spare battery installed on the machine, the weight balance of the machine will shift rearward. Take note of the weight balance and do not operate the machine on slopes greater than 10° with the spare battery installed.

Engaging the Blade

1. Push down the Operator Presence Lever against the Handlebar Grip (**Figure 18**).

2. Engage the Blade by pulling up  on the Blade Control Knob.

Note: If you pull up on the Blade Control Knob before holding down the Operator Presence Lever, the blades will not start.

CAUTION

Always disengage the blade of the DR ELECTRIC FIELD and BRUSH MOWER before shifting into reverse.



Figure 17

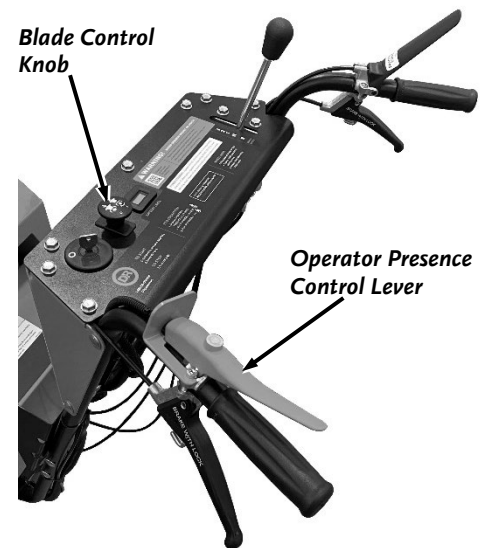


Figure 18

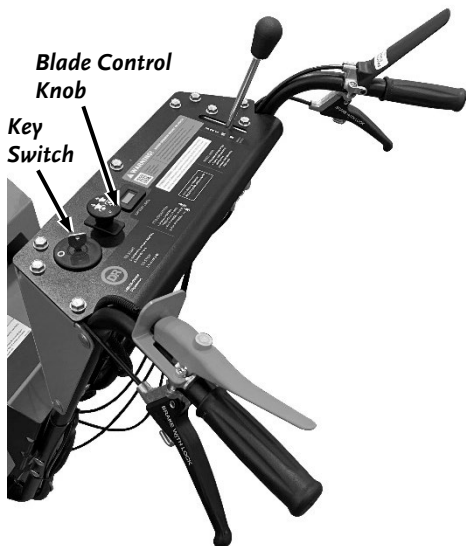


Figure 19

Stopping the Blade

1. Stop the Blade by pushing down  on the Blade Control Knob (**Figure 19**).

Note: In an emergency, to quickly stop the cutting blade, remove your hand from the Operator Presence Lever on the left handlebar.

Stopping the Motor

1. Disengage the Blade by pushing DOWN  on the Blade Control Knob (**Figure 19**).
2. Turn the Key to the Off position **O** and remove it for safety.

Obstacle Tips

Dealing with obstacles in the terrain is easy with your new DR ELECTRIC FIELD and BRUSH MOWER. The following section explains how to approach most common obstacles.

- Always check your work area before mowing and remove any debris that might tangle or damage the machine.
- If you do run into debris and the mower becomes tangled, turn off the Motor; allow the components to cool for five (5) minutes and remove the battery before attempting to untangle the machine.

WARNING

The mower's blade 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 mower blade spinning.

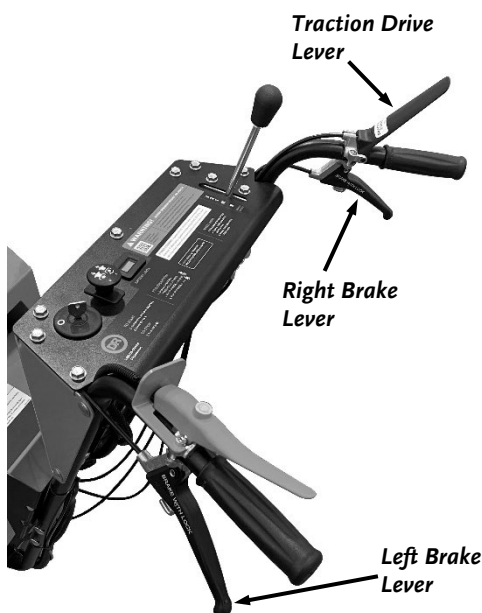


Figure 20

Operating the Steering Brakes:

Steering brakes can assist the operator in:

- Shifting the drive power from one wheel to the other to improve traction.
- Keeping the mower driving straight on side slopes.
- Turning the machine left or right.

The brakes apply a stopping force to the wheel on the same side as the brake lever. For example, when the left lever is squeezed the brake slows or stops the left wheel and transfers transaxle power over to the right wheel.

Steering with Brake Assist:

1. Select a Gear most applicable to the situation (see “**Engaging Wheel Drive**” on page 12).
2. Press down on the Traction Drive Lever to drive the machine (**Figure 20**).
3. Turn the machine to the left by squeezing the Left Brake Lever.
4. Turn the machine to the right by squeezing the Right Brake Lever.

Note: The machine must be moving for the brakes to assist with steering.

Traction Control with Brakes:

Occasionally, the machine may lose traction on one or both wheels. To gain traction, perform the following Steps:

1. Stop the Blade by pushing down  on the PTO Knob (**Figure 19**)
2. Apply the brake to the spinning wheel and the power will be directed to the wheel that has more traction.
3. If both wheels are spinning, try alternating the brakes left and right to maneuver the machine through the obstacle.

Setting the Parking Brakes:

1. Shift the Wheel Speed Lever to Neutral **N** (**Figure 21**).
2. Squeeze one of the Brake levers and push the Brake Lock Pin forward to set the brake. The Brake Lever will stay up when locked properly.
3. Repeat Step 2 for the other Brake.

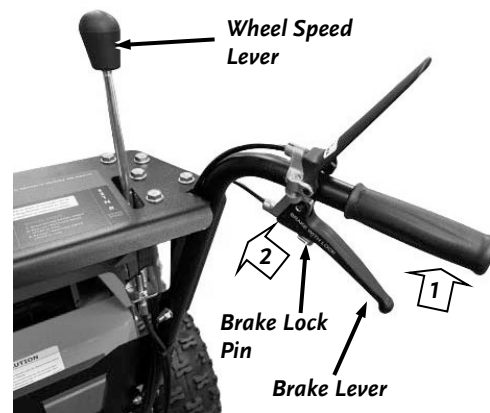


Figure 21

Mowing on Slopes

WARNING

Slopes are a major factor related to slip and fall accidents. All slopes require caution. If you feel uneasy on a slope, do not mow it. Always take the following precautions when using this machine on slopes:

- Always mow across the face of slopes. Exercise extreme caution when changing direction on slopes.
- Never operate near drop-offs, ditches, or embankments, or on slopes greater than 10 degrees with the spare battery installed, or 20 degrees without the spare battery installed.
- Never operate on wet or slippery slopes.
- When operating the DR ELECTRIC FIELD and BRUSH MOWER over uneven terrain or slopes, use extreme caution not to tip the machine over.
- Do not use the DR ELECTRIC FIELD and BRUSH MOWER on slopes greater than 10 degrees with the spare battery installed, or 20 degrees without the spare battery installed. Doing so could result in serious injury or damage to your machine.
- Do not shift while on a slope, doing so could result in a “free wheel” condition.
- Be very careful of your footing when operating the machine in reverse. Know what's behind you and take your time.
- Disengage the Blade before shifting into reverse. Mow in the Forward gears only, using Reverse for maneuvering.

1. While mowing on sloped terrain, mow across the face of the slope. Do not mow up and down.
2. To avoid excessive speed, shift into a lower gear before going down a slope.

Tip: When mowing on sidehills, feather the uphill brake to get the machine to steer up the hill slightly. This should keep the machine moving in a straighter line without additional operator effort.

If the machine gets hung up

1. Disengage the Blade. Do not try to free the machine from stumps or debris with the Blade engaged.
2. Push down on the Handlebars to lift the Mowing Deck over the obstacle.
3. Shift the machine in reverse and try backing away from the obstacle.

Mowing Heavy Grass

Heavy Grass is the most demanding condition for the FB26E. In these heavy conditions, it is possible for the Battery temperature and Motor temperature to rise to their upper threshold limit resulting in a temporary performance reduction. Refer to "Elevated Temperature Notice" in Chapter 5.

To extend the run time and reduce temperature rises in heavy conditions, the DR FB26E will automatically reduce its cutting speed while still delivering the maximum torque when a high load is detected. To maximize your run time in heavy conditions, mow in a slower gear and/or reduce your cutting width by cutting 1/2–2/3 swath at a time.

Cutting Brush and Saplings

WARNING

If you need to leave the operating position to clear debris from the deck, stop the motor, wait five (5) minutes to allow all parts to cool. Disconnect the battery.

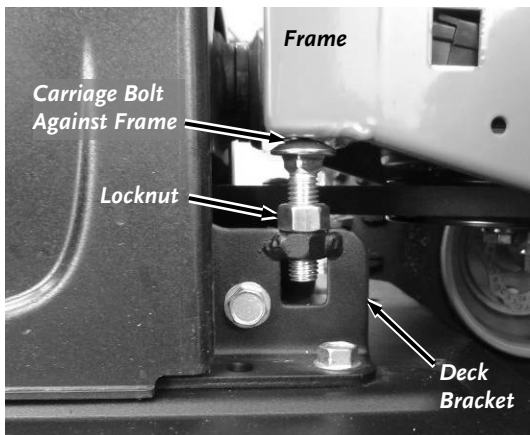


Figure 22

If the blade stops abruptly (from hitting a stump, log, or other object), it is possible to trigger a self-protection feature in the battery resulting in a power lockout of 30 seconds. To avoid this condition, move slowly when cutting larger diameter saplings and ease the machine into the material. If the condition occurs, you must wait 30 seconds before you can restart the machine.

DECK PIVOT BOLT ADJUSTMENT (Aggressive Mowing Conditions)

For aggressive mowing (Brush and Saplings), the Deck can be held stationary so the Blade cuts with more stability.

Note: The Carriage Bolts should be adjusted all the way up for aggressive mowing. The entire machine must be on a flat surface for the following procedures.

Tools Needed:

- 1/2" Wrench
- 3/4" Wrench

1. Loosen both Locknuts using a 3/4" Wrench as you hold the square portion of the Carriage Bolts using a 1/2" Wrench (**Figure 22**).
 2. Turn the Carriage Bolts up using a 1/2" Wrench until the round heads are contacting the Frame.
 3. Turn the Locknut down against Deck Bracket and hold the Carriage Bolt as you tighten the Locknut.
- When cutting woody material, small saplings, etc., allow the machine to ride up and over material slowly. Adjust your forward speed to varying conditions.
 - After cutting brush, etc., you may want to mow over it again to remove any remaining branches. It works best to mow from the trunk end toward the top as brush lies on the ground.

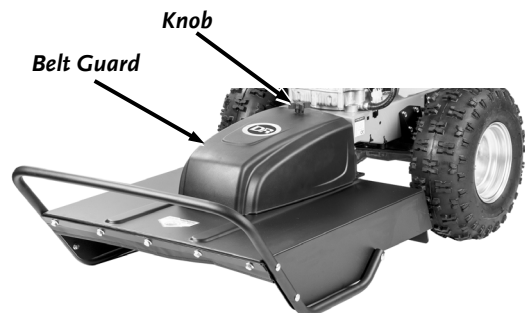


Figure 23

Chapter 4: Maintaining the DR ELECTRIC FIELD and BRUSH MOWER

Regular maintenance will ensure the best performance and long life of your machine. Please refer to this manual and the E-Series Battery Pack owner's manual for maintenance procedures.

WARNING

- Before performing any maintenance procedure or inspection, stop the motor, wait five minutes to allow all parts to cool. Remove the Key and disconnect the battery.
- Always wear gloves when performing maintenance on the machine.

Regular Maintenance Checklist

PROCEDURE	BEFORE EACH USE	EVERY 25 HOURS
Check the Battery Power (SOC)	▲	
Check Operator Presence Lever	▲	
Check General Equipment Condition	▲	
Check Blade for Sharpness	▲	
Check Blade Belt Condition (replace if damaged)	▲	
Brake Maintenance		▲
Lubricate Grease Fittings		▲
Lubricate Cables		▲
Check Tire Pressures		▲
Check Cable Connections		▲

Cleaning the Machine

WARNING

DO NOT douse or hose the machine with water. Avoid getting any liquid in the control switches and electrical connections.

After each use, remove any buildup of grass clippings and other debris on or around the cutting deck, control panel, and battery enclosure. DO NOT spray the machine with water to clean. Clean the machine only with compressed air, blower, or damp cloth. Take special care to avoid getting any liquid in the control switches and electrical connections.

LUBRICATION

Cable lubrication

Supplies Needed:

- Multi-purpose Teflon Aerosol Lubricant

Lubricate the Traction Drive Cable, Shift Cables, Throttle Cable, and Brake Cables where the Cable goes into the Housing with a Multi-purpose Teflon Aerosol Lubricant.

1. Spray the lubricant into the Cable Housing while working the Cable back and forth a few times. Perform this lubrication more often in dry and dusty environments.

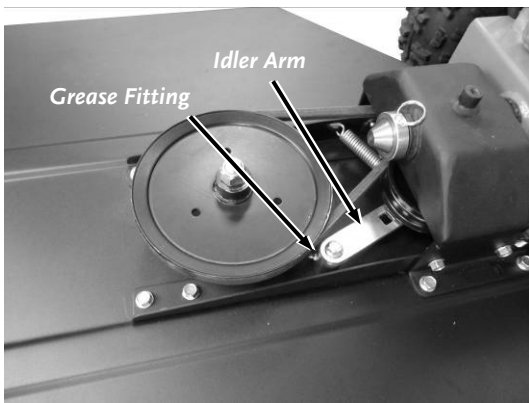


Figure 24

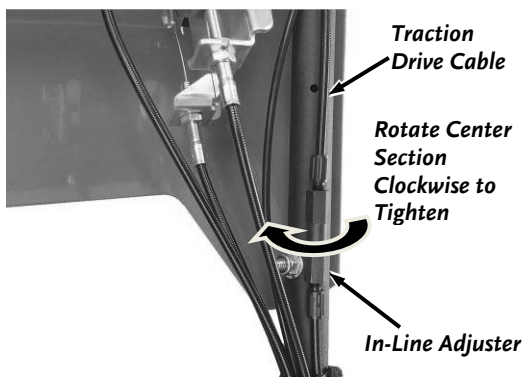


Figure 25

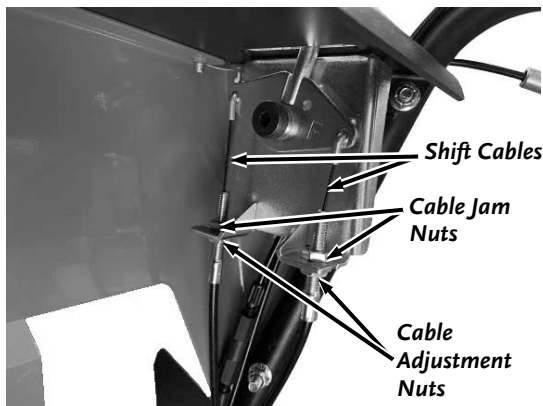


Figure 26

Idler Arm Lubrication

Tools & Supplies Needed:

- Grease Gun w/General Purpose Grease

There is one Grease Fitting below the black Belt Guard to lubricate (**Figure 24**).

With the Blade Belt removed (Refer to “Removing and Replacing the Blade Belt” on page 19), move the idler arm to make sure it rotates freely. If resistance is felt when pivoting the arm please lubricate as follows:

1. Remove the knob and belt guard from the deck.
2. Locate the Grease Fitting on the idler arm.
3. Using the grease gun add a small amount of grease (1-2 pumps or until slight resistance).

Note: Over greasing may cause grease to leak onto the Mower Drive Belt.

4. Reinstall the Belt (if removed) and Belt Guard.

Adjusting the Traction Drive Cable

Note: When properly adjusted, tension on the Traction Drive Lever should increase when the Lever is about parallel to (almost touching) the Handlebar Grip.

1. Locate the Traction Drive Cable along the right Handlebar (**Figure 25**). There is an In-Line Adjuster to change the length of the Cable.
2. Rotate the center portion clockwise while holding the ends stationary to expand the In-Line Adjuster and remove slack from the cable.

Adjusting the Shift Cables

If there is a lot of “play” in the Wheel Speed Lever or if the lever is no longer aligned with the Wheel Speed Label, you may need to adjust the Shift Cables.

Tools needed:

- Two 13mm Wrenches

1. Locate the Shift Cable Adjustment Nuts on the Shift Lever end of the cable (**Figure 26**).
2. Loosen one of the Cable Jam Nuts on the cable using two 13mm Wrenches.
3. Pull down slightly on the cable just enough to pull out the slack and then tighten the Cable Adjustment Nut to hold the cable housing in tension. You may need to tension one cable while loosening the other to realign the Lever.

Note: Do not over tighten the cable. It will create a spongy feel in the shift lever.

Removing and Replacing the Blade Belt

Supplies needed:

- Gloves

1. Unscrew the Hand Knob and remove the Belt Guard (**Figure 27**).

CAUTION

Your hands could get pinched when removing or installing the Belt onto the Belt Pulley. Wear Gloves to prevent injury.

2. Turn the Belt Pulley with one hand while using the other hand to work the belt out of the Pulley groove (**Figure 28**).
3. Push the belt in toward the Power Unit and the belt will fall off the Clutch Pulley (**Figure 29**).
4. Pull the Belt toward the Deck to remove the Belt completely.
5. To install a new Belt, insert the belt over the Tensioner Spring and through the inside of the Deck Pivot Bracket (**Figure 30**).
6. Wrap the Belt around the Clutch Pulley under the Power Unit (**Figure 29**).
7. Start the Belt into the groove of the Blade Pulley and turn the Pulley as you guide the Belt around and into the Pulley groove (**Figure 31**).
8. Install the Belt Guard back over the Belt and secure it with the Hand Knob (**Figure 27**).

Drive Belt

The Drive Belt should not need replacing under typical working conditions. If it does become necessary to replace the Drive Belt due to unexpected damage, please contact us at 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.

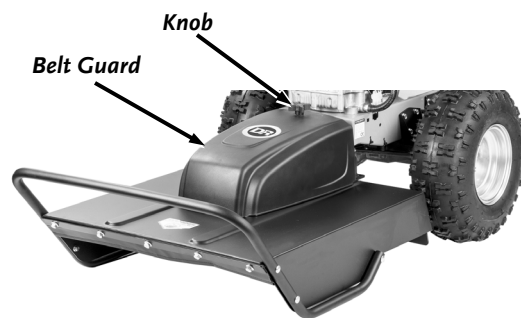


Figure 27

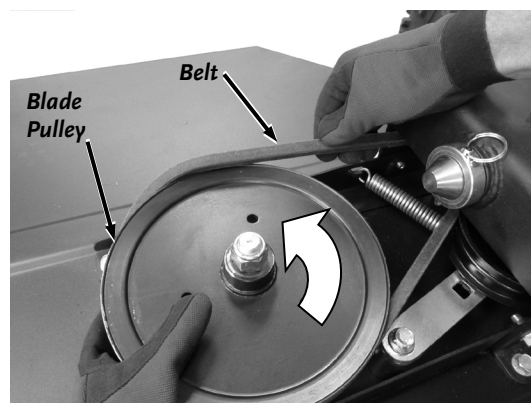


Figure 28

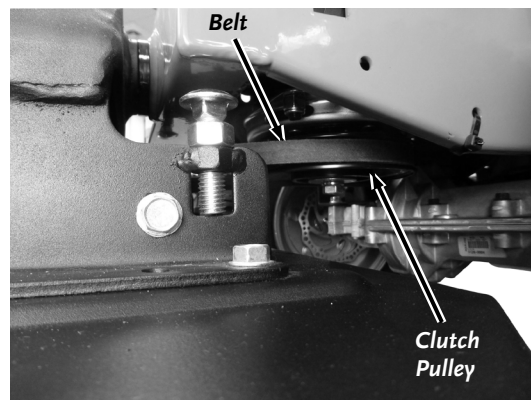


Figure 29

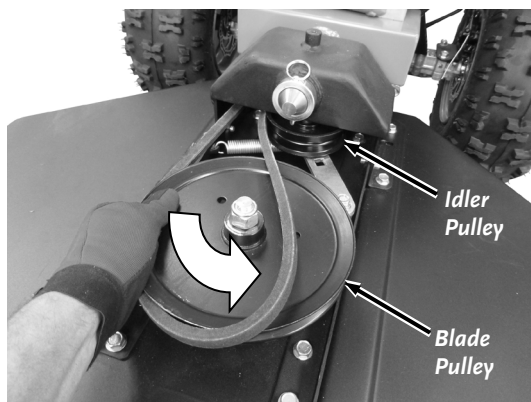


Figure 31

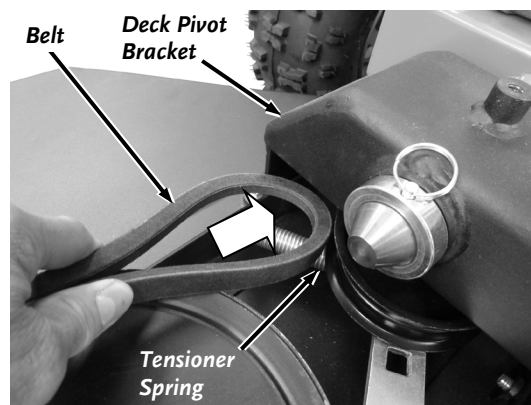


Figure 30

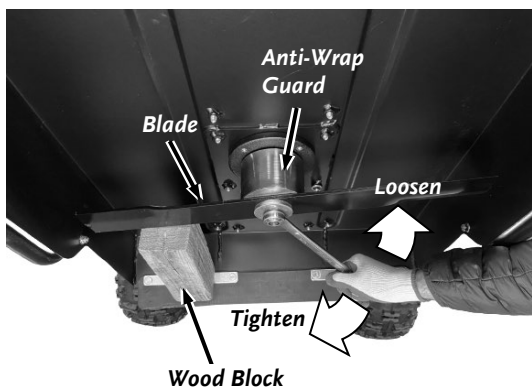


Figure 31

Removing and Replacing the Blade

Replace the Blade when worn or damaged. Do not use the same Blade for more than five years.

Tools and Supplies needed:

- 15/16" Wrench or Socket
- Torque Wrench (optional)
- Gloves
- 2" x 4" to brace the Blade

1. Block the Blade with a piece of wood between the Blade and the Skid on the side of the Deck (**Figure 31**).
2. Remove the Blade Lock Nut (standard, right-hand thread) and Washer.
3. Remove the Blade.
4. Mount the Anti-Wrap Guard, new Blade, Washer, and Lock Nut and tighten securely (Torque to 100 ft-lbs.). If the Locknut is removed and installed more than once, it should be replaced with a new one.

NOTE: Be sure to seat the Anti-Wrap Guard and Blade completely over the small ridge in the Spindle Hub before tightening the Lock Nut.

Removing the Wheels

Tools and Supplies needed:

- 3/4" Socket with extension

1. Loosen the Wheel Nuts a couple of turns with the Wheel on the ground.
2. Block the machine so the Wheel you are removing is off the ground.
3. Remove the Five Nuts and slide the Wheel off.
4. Replace the Wheel and finger-tighten the Wheel Nuts before unblocking the machine.
5. Tighten the Wheel Nuts with the Wheel resting on the ground.

Replacing the Blade Pulley

The Blade Pulley is designed to protect the drive system of the machine. If the machine is overloaded the hub and pulley may fail. Please follow these instructions to replace.

Tools and Supplies Needed:

- 15/16" Wrench

1. Unscrew the Hand Knob and remove the Belt Guard (**Figure 32**).
2. Remove the Belt from the Pulley (Refer to "Removing and Replacing the Blade Belt," above).
3. Block the blade with a piece of wood (**Figure 31**) as you remove the Locknut using a 15/16" Wrench (**Figure 33**).
4. Remove the damaged Pulley and replace with a new Pulley.
5. Secure the Pulley with the Locknut and torque to 50lb-ft (68N-m).
6. Install the Belt (Refer to "Removing and Replacing the Blade Belt" above).
7. Replace the Belt Guard and Hand Knob.

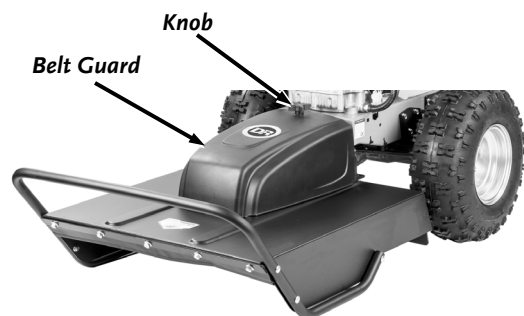


Figure 32

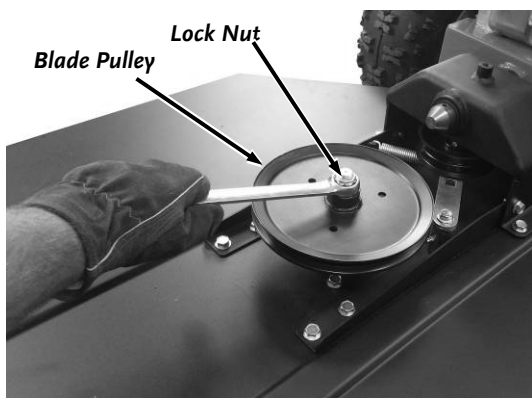


Figure 33

Adjusting the Brake Cables

Tools needed:

- 5.5mm Allen Wrench

On each brake caliper there is a tool free Micro Adjust Knob (**Figure 34**). For most maintenance this knob can be unscrewed and will tension the cable.

Once the Micro Adjust Knob is close to the end of its thread travel, it is recommended to do a full adjustment.

Note: Although not mandatory, it is recommended that the wheel be removed before completing a full adjustment.

1. Screw the Micro Adjust Knob all the way back into the caliper.
2. Using the 5.5mm Allen Wrench, loosen the Cable Clamp.
3. Pull the cable through the clamp removing any slack in the cable.
4. While holding tension on the cable, retighten the Cable Clamp with the 5.5mm Allen wrench.

Adjusting the Brake Pads

Tools needed:

- 5.5mm Allen Wrench

Note: Brake Pads may need adjustment after the pads wear significantly.

1. Remove the wheel from the side that needs adjusting.
2. Locate the Pad Adjustment Screw on the outboard side of the caliper (**Figure 35**).
3. Tighten the adjustment screw using the 5.5mm Allen wrench until just before the Brake Pad just touches the Brake Rotor.

Adjusting the Caliper Alignment

Tools needed:

- 5.5mm Allen Wrench

Note: Caliper Alignment should only be done after the Brake Pads have been adjusted.

1. Remove the wheel from the side that needs adjusting.
2. Using the 5.5mm Allen Wrench, loosen the Caliper Mounting Bolts 1 turn (**Figure 36**).
3. While manually squeezing the caliper closed on the Brake Rotor, Retighten the Caliper mounting Bolts.

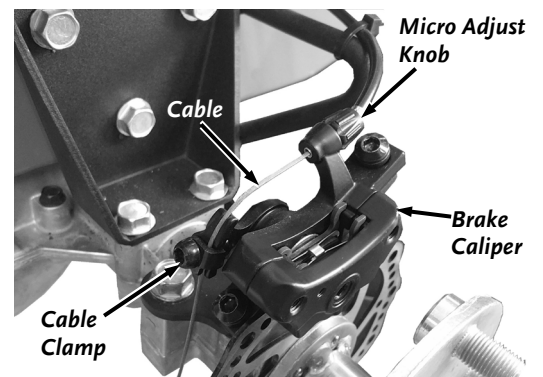


Figure 34

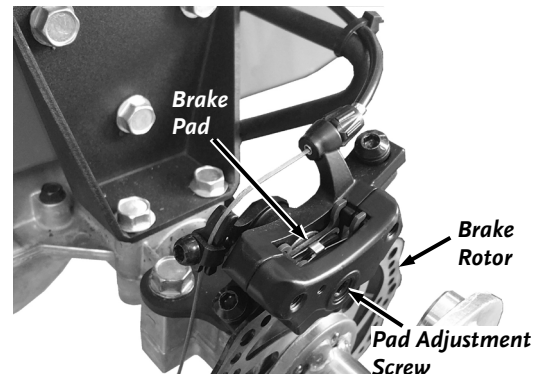


Figure 35

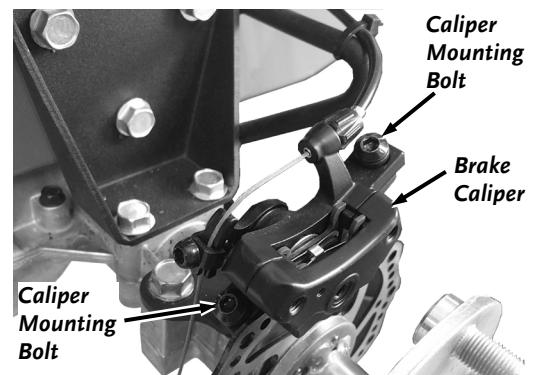


Figure 36

Chapter 5: DR Power E-Series Lithium Battery Pack and Electrical System

The DR Power FB26E is powered by a 48-volt E-Series Li-ion battery pack. When maintained properly, it will provide years of useful life. Refer to the "E-Series Battery Pack Safety and Operating Instructions" for more information on the use and care of your battery.

Battery and Electrical System Safety Practices

WARNING

- Disconnect the battery before performing any maintenance on the machine.
- Any maintenance operation of electrical components should be performed by a DR Power trained service technician.
- DO NOT attempt to cross vehicle roads or railways with low battery levels.
- DO NOT douse or hose the machine with water. Avoid getting any liquid in the control switches and electrical connections. Clean the machine only with compressed air, blower, or damp cloth.
- Always use insulated tools when maintaining electrical components.
- Mower blades can be engaged before the mower has started moving, always ensure the power take off switch is pushed down (disengaged) until you are ready to mow.
- Keep the area clear of bystanders while the blades are engaged.
- All maintenance and storage areas should be properly ventilated in accordance with applicable fire codes and ordinances to avoid fire hazards.
- Never allow flames, sparks or smoking near battery packs.
- Keep battery packs out of reach of children.
- Never modify or remove safety devices.
- Prevent the battery terminals from touching any metal mower parts when removing or installing battery.
- Do not allow metal tools to short between the battery terminals and metal mower parts.
- Always keep protective battery cover in place (hood closed).

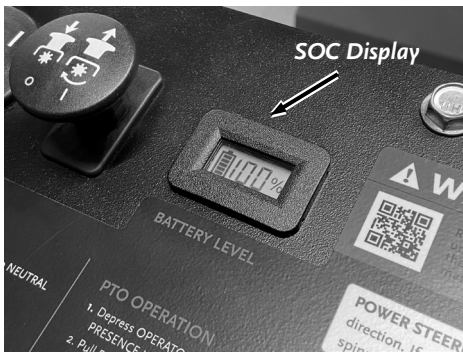


Figure 37

Checking Battery Charge

You can read the Battery Charge level using the State of Charge (SOC) display on the Control Panel of the machine or by checking the SOC indicator located on the battery.

Refer to the E-Series Battery Pack Manual for information on the Battery Pack SOC indicator.

To check the battery charge level using the SOC display on the control panel, follow the Steps below.

1. Ensure the battery is installed in the machine and the key is turned to On **I**.
2. The Battery SOC display will show a number between 0% and 100% indicating the battery charge percentage (**Figure 37**).

Note: The battery SOC will change based on the motor load. It is normal for the display to report a "lower than actual" battery percentage while mowing. For the most accurate value, read the SOC when the machine is at rest with no load on the motor.

Battery Pack Charging and Maintenance

The DR E-SERIES BATTERY PACK uses sealed, Lithium-Ion Battery cells. You **MUST** charge the Battery Pack for at least 90 minutes before you use it for the first time. If you do not charge it before using it, the Battery Pack's charging capacity may decrease.

NOTICE

To prolong the battery pack cycle life and make sure the packs stay in good condition, refer to "Handling the Battery Pack and Charger Safety."

The battery pack will need to be charged when battery voltage becomes low and the motor shuts off during mowing. When the battery discharges to this point, disengage the mower blades, and return the mower to the battery charging area.

Always charge battery packs after each use. Immediately charge the battery for at least 15 minutes after a complete discharge. Once charging is complete, the charger can be disconnected. The charger may not turn back on once charging is complete.

Charger: LEMC2348 (Standard Charger)

NOTICE

You should operate the Battery Charger in a dry place with temperatures between 32°F (0°C) and +100°F (+37.8°C). Operating above +100 °F can cause degradation of the Battery Pack performance. The battery pack will not charge completely at low temperatures (below 0°F).

The LEMC2348 charger will charge from a Standard 110-120VAC outlet at 23 amps-48volts. The line current draw will be up to 15 amps from the wall outlet.

Note: It is recommended to have a dedicated circuit for charging.

The LEMC2348 charger has a fan on the top of unit for cooling and two (2) cords. The cord with the RED Anderson Connector plugs into the battery and the second cord plugs into the electrical wall outlet. The charger also has a light on the front of the unit, RED indicates charging and GREEN indicates battery is charged.

Charging Battery Packs

1. Connect the electrical outlet cord of the charger to a 120VAC outlet. The Green/Red light on the charger will alternately flash on.
2. Insert the charging port plug into the battery pack (**Figure 38**).

Note: The light on the charger will flash red, indicating between 0 and 99% charge. When the battery is fully charged, the light will be a solid green, indicating charging is complete.

3. Unplug the charger from the outlet and remove the charging plug port from the battery pack.

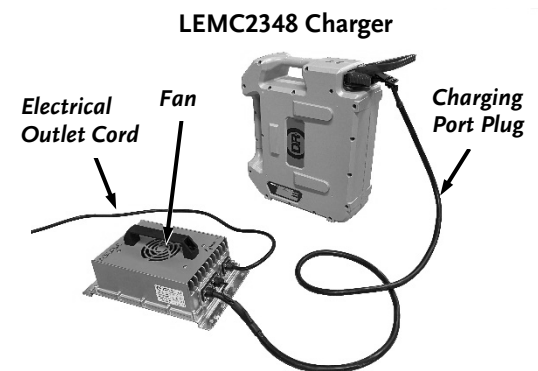


Figure 38

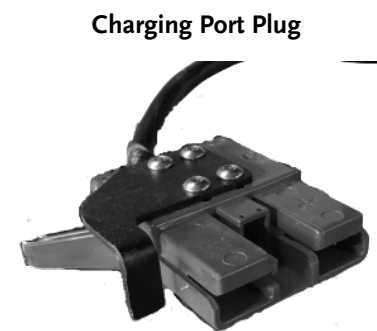


Figure 39

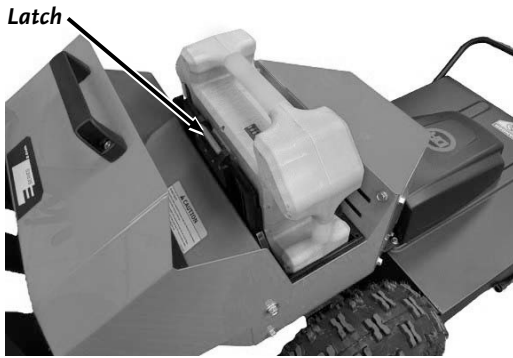


Figure 40

Installing the Battery Pack

1. Ensure the Key is in the Off position **O**.
2. Lift up on the Handle to open the Hood.
3. Align the connector on the Battery with the connector in the Receiver and lower the Battery Pack into the Receiver. Ensure the Battery is pushed in completely so the Latch locks it in place (**Figure 40**).
4. Close the hood.

Removing the Battery Packs

1. Lift the hood to the fully open position.
2. Grasp the top battery pack handle and with the opposite hand push the red receiver latch toward the battery handle (**Figure 40**).
3. Lift the battery straight up out of the mower, release the latch.

Elevated Temperature Notice

During high discharge conditions such as heavy grass cutting, the internal battery temperature will rise during use. As the battery temperature approaches its upper threshold limit, the mower will begin to automatically reduce its power output resulting in a higher tendency for the mower to bog down or stall. If this condition is experienced, you may continue using the machine. It is suggested to use a slower gear, reduce your cutting width, or allow time for the battery to cool when the battery is at an elevated temperature. If the battery reaches its upper threshold limit, the clutch will automatically disengage. If this condition occurs, transport the machine to a cool, shaded storage location, remove the battery and allow it to cool. Charging the battery will be prevented until it has cooled to an acceptable level. If you have a spare/separate battery, you can install it in the machine to continue operation.

For the best performance, avoid storing your battery in a hot environment before use. Cool your battery by removing it from the machine and storing it in a cool, shaded location.

When using the machine in high discharge conditions for more than one (1) hour (requires multiple batteries) it is possible for the motor to approach its upper threshold limit resulting in a higher tendency for the mower to bog down or stall. If this condition is experienced, you may continue using the machine. It suggested to use a slower gear, reduce your cutting width, or allow time for the motor to cool when the motor is at an elevated temperature.

Disposing of the Battery

NOTICE

Please dispose of used batteries in a responsible and environmentally sound way.
Never throw away used batteries 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 Batteries year-round; others collect them periodically. You can also visit www.earth911.org for a list of recycling centers near you.

Chapter 6: 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 or call toll-free 1-800-DR-OWNER (376-9637) for support.

WARNING

Before performing any maintenance procedure or inspection, stop the motor, and wait five (5) minutes to allow all parts to cool. Disconnect the battery.

Troubleshooting Table

SYMPTOM	POSSIBLE CAUSE
<i>Brush Mower Will Not Power On</i>	⇒ Check the State of Charge on the Battery. If low, recharge or switch to a fresh battery. If any RED LEDs are illuminated, refer to the Battery Documentation. ⇒ Try Reseating the Battery in the Receiver. ⇒ Check all electrical connections under the dash panel.
<i>Brush Mower Powers On but Motor does not run</i>	⇒ Check all of the items under the section called “Starting” on page 12. Especially, that the Transmission is in (N). ⇒ Check electrical connections on the rear of the transaxle. ⇒ Traction Drive Cable may need adjusting.
<i>Brush Mower Powers On but the State of Charge Indicator Does Not Function</i>	⇒ Check all electrical connections under the dash panel.
<i>State of Charge display does not read 100% even with a freshly charged battery.</i>	⇒ The State of Charge displays a voltage-based measurement and it is normal for it to report a “lower than actual” value when there is a load on the system (motor on). Try putting the machine into gear and turning the key to ON(I) for the most accurate “no load” measurement.
<i>Brush Mower Loses Power during Normal Use</i>	⇒ Check the State of Charge on the Battery. If low, recharge or switch to a fresh battery. If any RED LEDs are illuminated, refer to the Battery Documentation. ⇒ Try Reseating the Battery in the Receiver. ⇒ Check all electrical connections under the dash panel.
<i>Brush Mower Loses Power After Hard Impact</i>	⇒ Turn off key-switch, place the Transmission in (N), wait 30 seconds, then restart the machine. ⇒ Try Steps for “Brush Mower Loses Power during Normal Use,” shown above.
<i>Decreased Power When Mowing</i>	⇒ The machine may have entered an Elevated Temperature Condition. Refer to the Elevated Temperature Notice on page 24. ⇒ Check the State of Charge on the Battery. If low, recharge or switch to a fresh battery. If any RED LEDs are illuminated, refer to the Battery Documentation.
<i>Blade Will Not Engage or Disengages While Operating</i>	⇒ Be sure you are holding down on the Operator Presence Lever before pulling up on the Blade Control Knob. ⇒ Check all electrical connections under the dash panel. Ensure there is no liquid in the connectors or control switches. ⇒ Check electrical connections at the electrical clutch. Be sure to turn OFF the machine and remove the battery before performing this operation. ⇒ The machine may have entered an Elevated Temperature Condition. Refer to the Elevated Temperature Notice on page 24.

Troubleshooting Table (Cont.)

SYMPTOM	POSSIBLE CAUSE
<i>Motor stops but the Brush Mower is still Powered On</i>	⇒ Check the State of Charge on the Dash. If low, recharge or switch to a fresh battery. Power cycling may temporarily regain functionality, providing limited runtime or the ability to transport. ⇒ Try power cycling the machine. Make sure the machine is in neutral and turn the Key to off (O) and then back on (I). Refer to "Starting the Motor" and "Stopping the Motor" in Chapter 3.
<i>Traction Drive does not Engage</i>	⇒ Traction Drive Cable may need adjusting. See page 18. ⇒ The Drive Belt is broken or out of adjustment. See page 19.
<i>Brush Mower is difficult to shift</i>	⇒ There may be added resistance from the driveline when trying to shift on a slope or while pressing against an obstacle. Lifting one tire will relieve any residual load in the driveline and shifting should become much easier. ⇒ If there is resistance between all gears, the shift cables may be overly tight. Loosen one (1) cable slightly and shifting feel should improve.
<i>A Belt frays or rolls over the Pulley</i>	⇒ Check the Belt for wear and hard spots. ⇒ The Belt may be stretched, replace it. ⇒ A Pulley groove may be rusty or have a nick in it. Clean the pulley with steel wool or file off any nicks.
<i>Excessive vibration when engaging the Blade</i>	⇒ Check the Blade for nicks and wear. Replace or sharpen and balance the Blade if they become dull or have them professionally sharpened if needed. Never try to straighten a bent Blade. See "Removing and Replacing the Blade" on page 20. ⇒ May have debris wrapped around Blade (wire, etc.). Remove debris from Blade. ⇒ The Blade may not be seated properly on the Hub. Loosen the Blade Nut, reseal the Blade, and tighten the Nut. Be sure to turn OFF the machine and remove the Battery before performing this operation. ⇒ Check and retighten all of the fasteners as required.
<i>The Blade is not cutting or is loose</i>	⇒ The Blade may not be seated properly on the Hub. Loosen the Blade Nut, reseal the Blade, and tighten the Nut. Be sure to turn OFF the machine and remove the battery before performing this operation. ⇒ Sharpen the Blade; it may be dull or nicked. See "Removing and Replacing the Blade" on page 20.
<i>Wheels pulling left or right</i>	⇒ Check the Wheel Tire pressures against the manufacturer's recommendation listed on the side of the Tires. ⇒ Check the brakes for rubbing or damage. Refer to "Adjusting the Brake Cables," "Adjusting the Brake Pads," and "Adjusting the Caliper Alignment" on page 21 for adjustment instructions.
<i>Bad Brake Performance</i>	⇒ Be sure that all cables are adjusted properly and that cables are not kinked. ⇒ Caliper may not be adjusted properly, refer to page 21 for caliper adjustments. ⇒ Pads and Rotors may not be aligned properly. ⇒ Pads and Rotors may not be burnished properly, refer to page 11 for burnishing procedure. ⇒ Pads/Rotors may have oil contamination. Clean rotor with Brake Cleaner, and re-burnish the Brake Pads/Rotors. If problem persists, replace the Brake Pads.
<i>Levers are hard to move during cold weather operation</i>	⇒ Moisture is getting into the Cable housing(s) and freezing. Using a lubricating syringe, inject "dry gas" into the Cable-Housing opening to absorb the moisture. Tip the machine forward slightly so the "dry gas" will flow down the inside of the Housing. After the ice blockage has thawed, lubricate the cable(s) with SAE 30 oil.

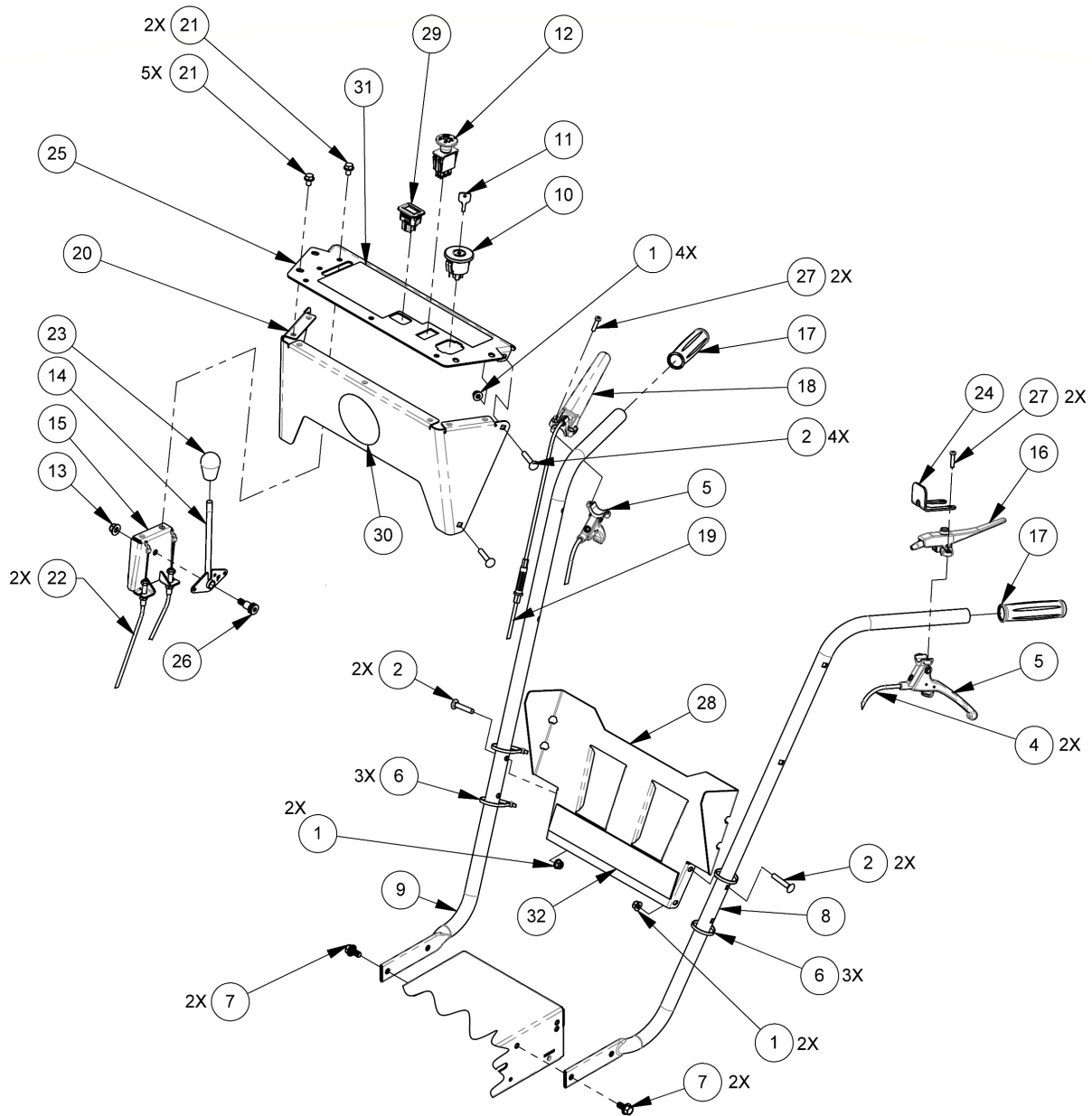
Chapter 7: Parts Lists and Schematic Diagrams

Parts List - Handlebar Assembly

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

Ref#	Part#	Description	Ref#	Part#	Description
1	333321	Nut, Nylon Lock, Flanged, 5/16-18	18	389241	Lever, Cable, Black, Traction Drive
2	350331	Bolt, Carr, 5/16-18 X 1.75", GR5, ZP	19	351181	Cable, Traction Drive
3	127971	Cable Tie, 17", # 50	20	10000037796	Control Panel, AT4
4	351151	Cable, Brake	21	111731	Bolt, HCS, Serrated Flange, 5/16-18 X .50"
5	302971	Lever, Brake, W/O Hardware	22	351311	Cable, Shift
6	112141	Cable Tie, 7-1/2" Long	23	150361	Knob, PTO Clutch Cable
7	352811	Bolt, Hex, Flange, Tri Lobe, 3/8-16 X 3/4", GR5, ZP	24	164971	Guard, Switch, Magura
8	344281	Handlebar, Left	25	A0003978596	Control Panel-Top-E-AT4 w/Labels
9	344291	Handlebar, Right	26	352901	Bolt Shoulder, 1/2" X 5/8"l, 3/8-16
10	A0003102381	Key Switch - 2 Position - I/O	27	179231	Screw, SHCS, M6 X 25mm
11	157201	Key, Ignition Switch	28	A0002745540	Bracket-Spare Battery-Electric AT4
12	191231	Switch, Push/Pull	29	A0003102379	Display-State Of Charge-48v
13	333331	Nut, Nylon Lock, Flanged, 3/8-16	30	A0003882603	Label-Dr Round Console Electric AT4
14	A0000253527	Lever, Shift	31	A0003882602	Label-Control Panel Electric AT4
15	A0000253528	Mount, Lever, Shift		10000036023	Decal Prop 65 Short Form
16	180691	Lever, Op Presence w/ Harness	32	A0003295402	Pad - Rubber Spare Battery E-At4
17	164961	Grip, 1.00"			

Schematic – Handlebar Assembly

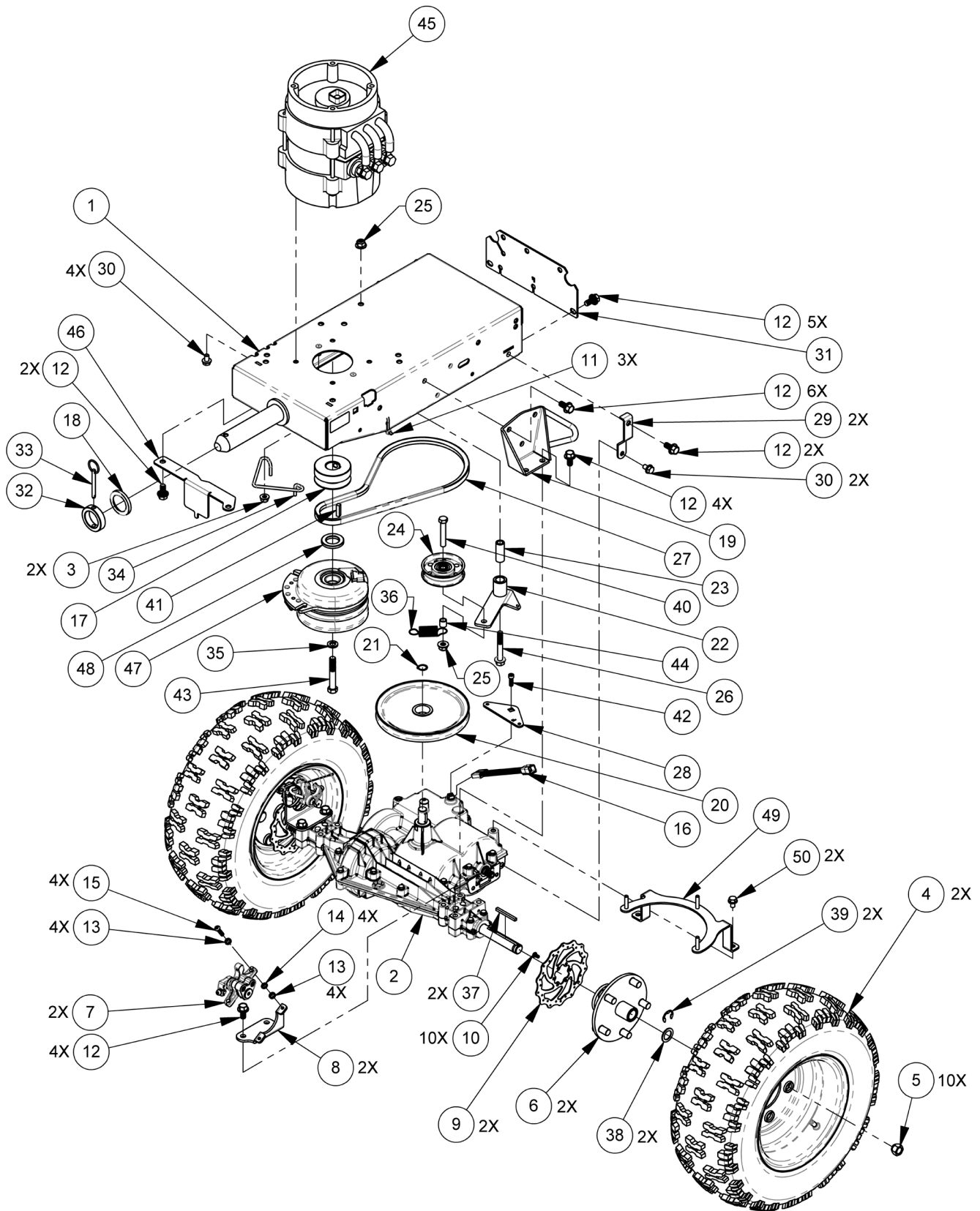


Parts List – Drivetrain Assembly

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

Ref#	Part#	Description	Ref#	Part#	Description
1	A0002392842	Frame-E AT4	26	333481	Bolt, Hex, Flange, 3/8-16 X 2.5"
2	363561	Transaxle, 3spd, w/ Switch, Peerless	27	351101	Belt, AK32, 1/2" X 34"
3	333321	Nut, Nylon Lock, Flanged, 5/16-18	28	A0000159802	Bracket, Shift, Transmission w/Washer
4	192891	Wheel, 18 X 6.5-8, Terrain, 5 Lug	29	A0000757072	Hanger, Rear Transaxle, Left
5	165221	Nut, Lug 1/2-20		A0000757074	Hanger, Rear Transaxle, Right
6	A0000860716	Hub, Wheel	30	111731	Bolt, HCS, Serrated Flange, 5/16-18 X .50"
7	344461	Caliper, Mechanical Disc with Pads	31	351371	Support, Frame, Rear, Peerless
8	344371	Mount, Brake	32	A0000253469	Washer, 1.38"ID 2.0"OD .5"L
9	344471	Rotor, 140mm	33	150461	Pin, Detent, 1/4" X 2"
10	352721	Bolt, Torx, BHCS, M5-0.8 X 10mm, Cl8.8, ZP	34	353031	Guide, Belt, Traction Drive
11	112141	Cable Tie, 7-1/2" Long	35	A0000367010	Washer, Lock, 7/16", Split, ZP
12	352811	Bolt, Hex, Flange, Tri Lobe, 3/8-16 X 3/4", GR5 ZP	36	352611	Spring, Extension
13	363591	Washer, Alignment, Female, M6	37	101191	Key, Square, 3/16" X 2"
14	363581	Washer, Alignment, Male, M6	38	129691	Shim, .75"ID, 1.125"OD, .06"L, ZP
15	363601	Bolt, Alignment, M6-1 X 25, w/ Locking Patch	39	A0000313388	Ring, Retaining, 3/4" E-Clip
16	364381	Harness, Safety, Neutral	40	157121	Bolt, HCS, 3/8-16 X 2-1/4", GR5, ZP
17	344231	Pulley, Keyed, A V-Belt, 2.5" OD, 1" Shaft	41	370701	Key, Square, 1/4" X .75"
18	151381	Pivot Washer, 1.375"ID, 2.0"OD	42	111501	Bolt, SHCS, 1/4-18 X 3/4", Black Oxide
19	A0000757044	Bracket, Axle Mount, Left	43	A0000366994	Bolt, HCS, 7/16-20 x 2.25", GR8, ZP
	A0000757054	Bracket, Axle Mount, Right	44	350511	Spacer, Idler
20	344361	Pulley, Transaxle	45	A0002368764	Motor-Inmotion RSM170
21	111241	Snap Ring, External, 5/8"	46	A0001303114	Bracket-Anti Rotation-Warner Clutch-AT4
22	247391	Idler Arm, Drive, FBP	47	191121	Clutch-Electric 60 Ft-lbs. 1.67a
23	151111	Bushing, 0.390" ID X 0.620" OD X 1.585"	48	A0001303064	Spacer-Clutch-AT4 Honda Engine
24	108501	Pulley, Flat Idler, 3"	49	A0000757081	Guide, Belt, Transaxle
25	333331	Nut, Nylon Lock, Flanged, 3/8-16	50	311161	Bolt, HWH, 5/16-18 X .75", Taptite, ZP
			Not Shown:		
				A0003116020	Harness - Wire Clutch -Electric AT4

Schematic – Drivetrain Assembly

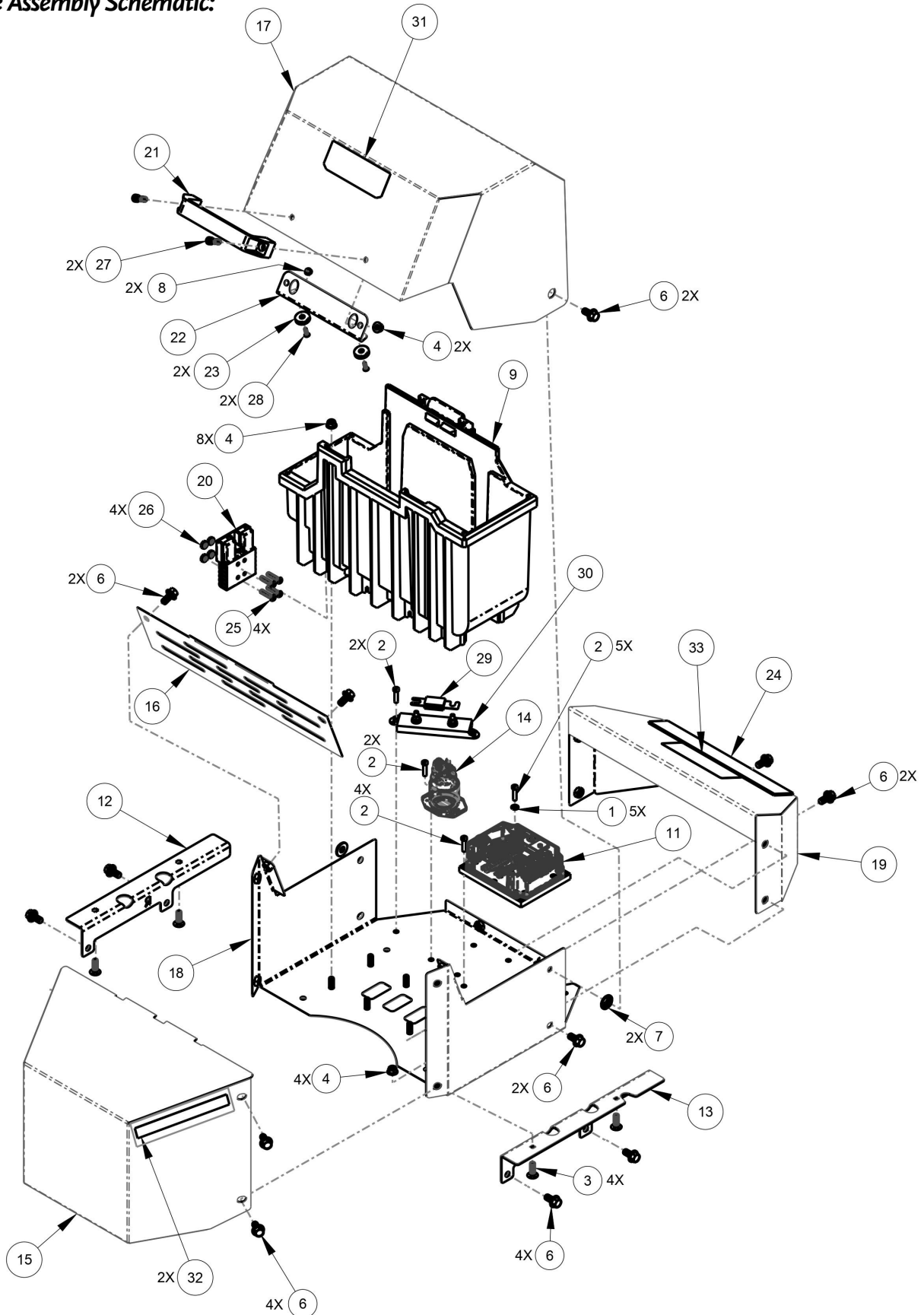


Parts List – Enclosure Assembly

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

Ref#	Part#	Description	Ref#	Part#	Description
1	101811	Washer - Split Lock -1/4 – ZP	23	A0003269896	Magnet - Disc -1in X .25 - N52
2	179231	Screw-SH M6 25mm	24	A0003295402	Pad - Rubber Spare Battery E-At4
3	187621	Bolt Carriage 5/16-18 X1 GR5 ZP	25	A0003447955	Bolt-BH 1/4-20 X 1.125-SS
4	333321	Nut-Nylon Lock Flanged 5/16-18	26	A0003447969	Nut-EWT-1/4-20-GR2
5	333331	Nut-Nylon Lock Flanged 3/8-16	27	A0003448156	Bolt-SH-5/16-18 X .875-ZP
6	352811	Bolt-Hex Flange TL 3/8-16 X 3/4	28	A0003455885	Screw-FH-8-32 X .625-SS
7	395521	Bushing-Idler-Blade Belt	29	A0003467352	Fuse-ANL 200A
8	A0001079296	Nut-Lock Serrated Flange 8-32	30	A0003467586	Fuse Block-ANL-200A-400A-600A
9	A0003361024	RCVR-Battery Pack-2.5kwh-E-AT4	31	A0003882605	Label-E Series 2.5kwh
11	A0002408550	Controller-Motor-ACS48W18	32	A0003882606	Label-FB26e Electric AT4
12	A0002408581	Support-Battery-Right-E AT4	33	A0003923601	Label - Caution - Spare Battery
13	A0002408584	Support-Battery-Left-E AT4	Not Shown:		
14	A0002424742	Contact Relay-48vdc-200A		A0002746321	Harness-Wire Main Electric AT4
15	A0002739013	Enclosure - Motor E-AT4		A0002777652	Cable-Wire Motor-U Electric AT4
16	A0002739182	Cover - Motor Gap E-AT4		A0002777653	Cable-Wire Motor-V Electric AT4
17	A0002739183	Hood - Battery Enclosure E-AT4		A0002777655	Cable-Wire Motor-W Electric AT4
18	A0002739220	Enclosure - Battery E-AT4		A0002784003	Cable-Wire Fuse Contactor Electric AT4
19	A0003978595	Enclosure - Component w/Labels		A0002784002	Cable-Wire Controller B+ Electric AT4
20	A0002787628	Harness-Wire Battery Electric AT4		A0002373947	Charger, 48vdc, 23a, 110vac, PPZ-1
21	A0002913788	Handle-Plastic-Rectangle Grip-7in			
22	A0003269887	Bracket-Magnet-Electric AT4			

Enclosure Assembly Schematic:

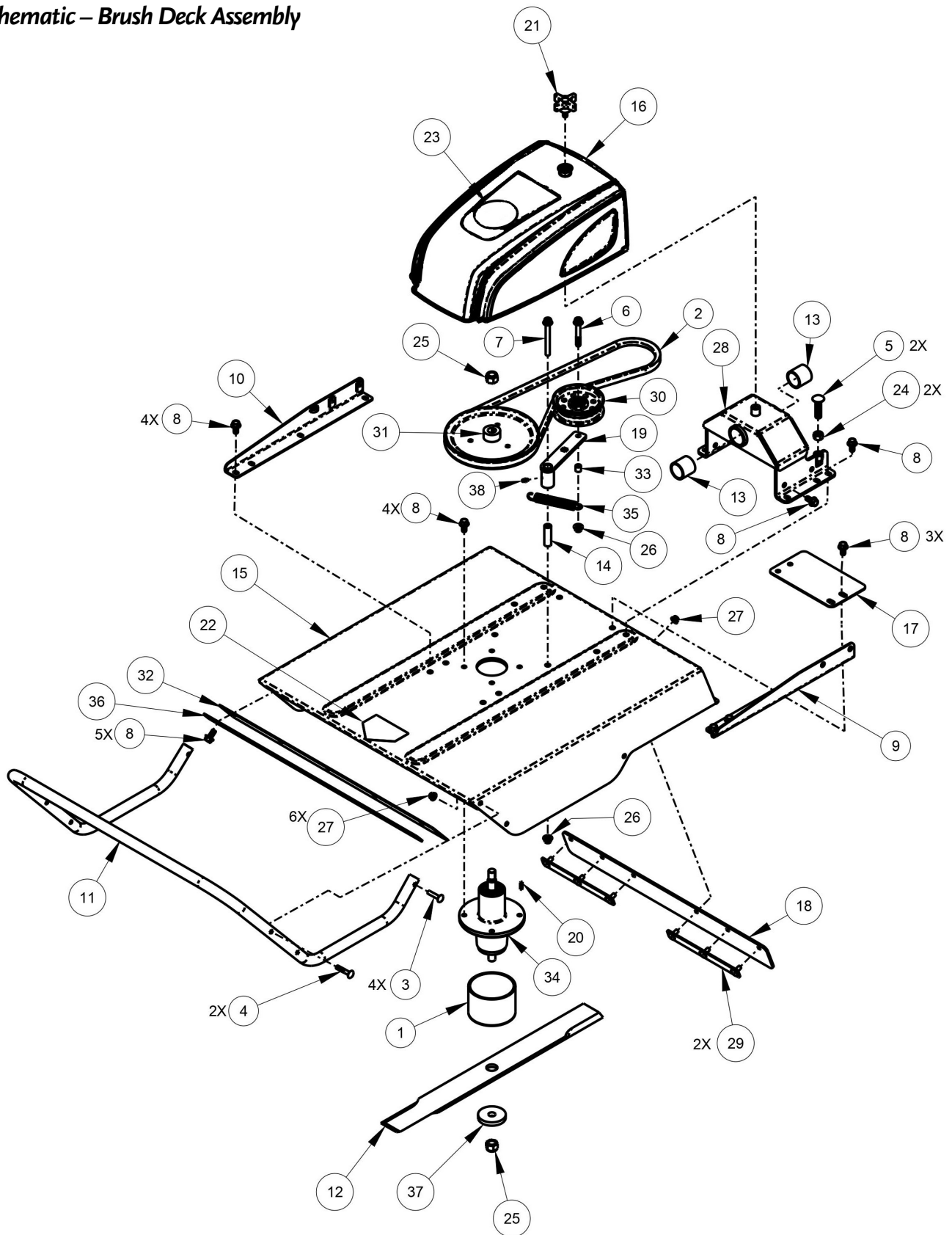


Parts List – Brush Deck Assembly

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

Ref#	Part#	Description	Ref#	Part#	Description
1	A0002530236	Anti-Wrap Can-ATV BM	20	119141	Key Square 3/16 In X 3/4 In
2	352851	Belt-Brush Deck 5/8 X 58.8 IN BK56	21	352881	Knob-Stud 3/8-16 X 1
3	109131	Bolt-Carr 5/16-18 X 1-1/2 Gr5 ZP	22	136491	Label-Danger
4	350331	Bolt-Carr 5/16-18 X 1.75 Gr5 ZP	23	A0003882604	Label-Dr Round Belt Cover Electric AT4
5	353011	Bolt-Carriage 1/2-13 X 2	24	229101	Nut-Hex 1/2-13 Gr5 Zp
6	333481	Bolt-Hex Flange 3/8-16 X 2.5	25	A0002459381	Nut-Nylon Lock 5/8-18 Gr5 Zp
7	345171	Bolt-Hex Flange 3/8-16 X 3.5	26	333331	Nut-Nylon Lock Flanged 3/8-16
8	352811	Bolt-Hex Flange TL 3/8-16 X 3/4	27	333321	Nut-Nylon Lock Flanged 5/16-18
9	352921	Bracket-Deck Stiffener Left	28	344261	Pivot-Deck Bracket
10	352911	Bracket-Deck Stiffener Right	29	A0000253559	Plate-Stud Guard
11	344251	Brush Bar-26 In AT4	30	151271	Pulley Flat Idler 4 In
12	100491	Brush Blade - HVY Duty - 26 Inch ATM-AT2-AT3-AT4	31	164451	Pulley V-Belt 8-1/2 In 7g
13	150721	Bushing 1.38ID 1.63OD 1.5	32	10000031856	Rubber Skirt-Front 26 In
14	351431	Bushing-Idler Brush Deck AT4	33	350511	Spacer-Idler
15	363401	Deck 26" AT4 w/Labels	34	344381	Spindle-Assy AT4
16	351441	Guard-Belt AT4	35	150941	Spring E .750od .112wire 5.0L
17	364171	Guard-Debris Deck	36	366161	Strap-Skirt Mounting 26 In
18	353161	Guard-Deck 26 In Rubber AT4	37	101771	Washer-.640 Id X 2-1/2 OD
19	A0000253515	Idler Arm-Brush Deck AT4	38	A0000332299	Zerk-Grease 1/4-28 Straight

Schematic – Brush Deck Assembly



DR® ELECTRIC FIELD and BRUSH



2-Year Limited Warranty

Terms and Conditions

The DR® ELECTRIC FIELD and BRUSH 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.

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® ELECTRIC FIELD and BRUSH MOWER is fit for ordinary purposes for which a product of this type is used. DR 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® ELECTRIC FIELD and BRUSH 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 Drive Belts, Blade, and Brake Components. 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 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® ELECTRIC FIELD and BRUSH 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 ELECTRIC FIELD and BRUSH MOWER

To help maintain your DR ELECTRIC FIELD and BRUSH MOWER for optimal performance, we recommend you follow this checklist each time you use your machine.

! WARNING

Before performing any maintenance procedure or inspection, stop the motor, wait five (5) minutes to allow all parts to cool. Disconnect the battery.

- [] Check the general condition of the Mower e.g., nuts, bolts, welds, etc.
- [] Check Tire Pressure
- [] Check belts for wear, proper alignment, and tension.
- [] Check the blade for tightness, nicks, and wear. Remove any wrapped weeds and grass from the Blade Bearing Housing to prevent buildup.

! WARNING

Before performing any maintenance procedure or inspection, stop the motor, wait five (5) minutes to allow all parts to cool and disconnect battery.

End of Season and Storage

- Remove the battery packs from the machine.
- Store the battery packs and charger in a clean, dry area at a temperature above -4°F (-20°C).
- Charge batteries between 50% to 70%.

Note: Store the Battery packs indoors.

- If you will not use the machine over a long period, cycle (charge and discharge) the battery every 3 to 9 months at temperatures above freezing.
- Remove any wrapped weeds from the Blade Bearing Housing. Clean grass and debris from the top and underneath the Mower Deck with a stiff brush.
- DO NOT spray the machine with water.
- Check the Blade for nicks and wear. Remove the Blade and sharpen, or have it professionally sharpened if needed.
- Perform lubrication as outlined starting on page 19.
- Store the machine indoors. If the machine must be stored outside, make sure it is covered completely to protect it from the elements.



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