

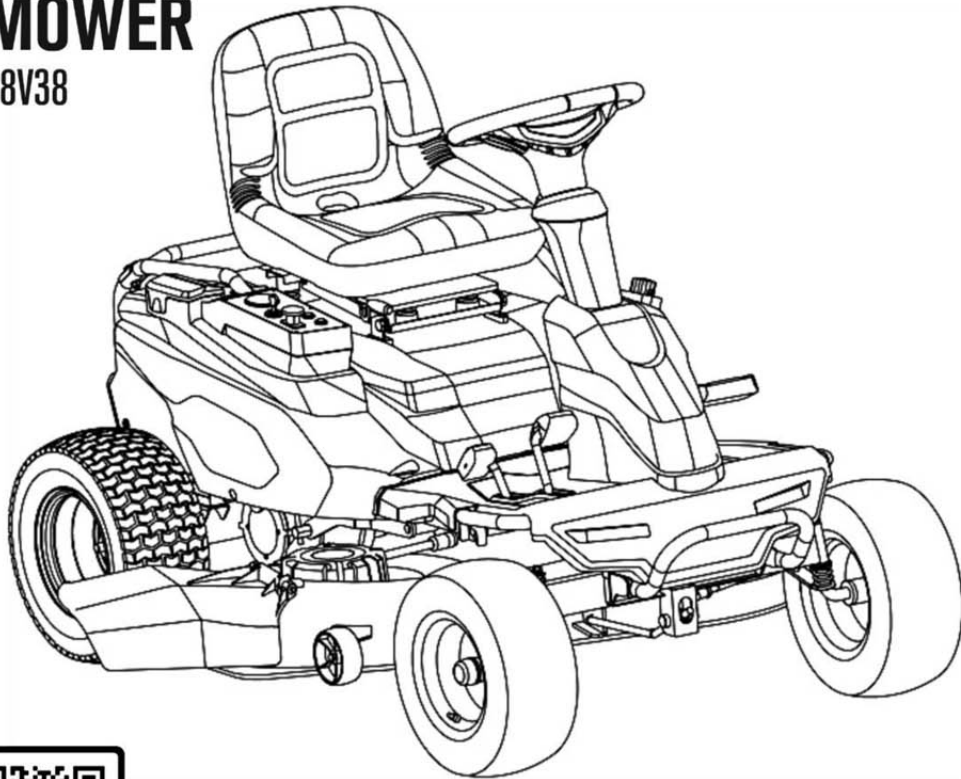
# PRORUN<sup>®</sup>

**48V**

**RIDING MOWER**

**MODEL: PRM48V38**

**Operator's Manual**



Everything PRORUN

Before charging, read the instructions.

**⚠ IMPORTANT - READ CAREFULLY BEFORE USE**

**⚠ IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS**



**WARNING:** To reduce the risk of injury, the user must read and understand the Operator's Manual before using this product. Save these instructions for future reference.

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Version: D - Issue Date: 2023/11/14

## 1. PRODUCT SPECIFICATIONS

Model	PRM48V38
Battery	LPC12-75 (Leoch) 48V (4 X 12V)
Transmission	Gear box
Speed Forward	7.45 MPH (12 km/h)
Speed Reverse	2.17 MPH (3.5 km/h)
Frame	Robotically Welded
Tires Front	15.0 X 6.00 - 6
Tires Rear	16 X 6.5 -8
Turning Radius	R17.7 inches (R 450 mm)
Cutting Width	38.58 inches (980 mm)
Mower Deck	Steel
Cutting Heights	1.18 to 3.94 inches (30 to 100 mm)
Blades	Requires 2 blades for 38-inch cut
Blade rotation speed	3200min <sup>-1</sup>
Blade model ZJ494305130108:	Length: 19.65 in., Center Hole: $\phi$ 0.78 in. Outer Hole: $\phi$ 0.32 in., Width: 1.96 in. Thickness: 0.098
Length	64.17 inches (1630 mm)
Width	47.12 inches (1197 mm)
Height	43.70 inches (1110 mm)
Net Weight	507 LBS (230kg)
Measured sound power level LWA, dB(A)	91.78
KWA, dB(A)	2.57
Guaranteed sound power level LWA, dB(A)	96
Sound pressure level near ear LPA, dB(A)	76.9
KPA, dB(A)	3
Vibration – Handle (left/right), m/s <sup>2</sup>	1.087/1.092
Vibration – Whole body, m/s <sup>2</sup>	0.628
K, m/s <sup>2</sup>	1.5

- The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one machine with another.
- The declared vibration total value may also be used in a preliminary assessment of exposure.
- The vibration emission during actual use of the machine can differ from the declared total value depending on the ways in which the machine is used; and of the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the machine is switched off and when it is running idle in addition to the trigger time).

# ***48V RIDING MOWER MODEL: PRM48V38***

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### 3. GENERAL WARNINGS

**⚠ WARNING!** FOLLOW THESE INSTRUCTIONS CAREFULLY!

Before use, read and understand the installation and operation instructions in this manual to become familiar with how this riding mower works. Failure to follow all instructions listed below may result in electric shock, fire, and/ or serious injury.

1. Always safeguard these operating instructions so that they can be consulted if you need any information about the appliance.
2. Only pass on the appliance to other people together with these operating instructions.
3. Comply with the safety and warning information in these operating instructions.
4. The riding mowers are supplied with different levels of equipment. Please note that the illustrations may differ somewhat from the original. Please contact a specialist workshop or the manufacturer if you encounter difficulties in following the descriptions.
5. Comply with the supplied assembly instructions.

**⚠ HAZARD!**



Carefully read this instruction manual completely. Abide by all the “SAFETY REGULATIONS” before, during, and after using the machine.

Keep this manual and all the attachments for any future consultation.

In case of any change in ownership, the manual must be handed over together with the machine.

### HOW TO READ THE MANUAL

Some paragraphs in the manual containing important information regarding safety and operation are emphasized in the following ways.

**⚠ WARNING!**

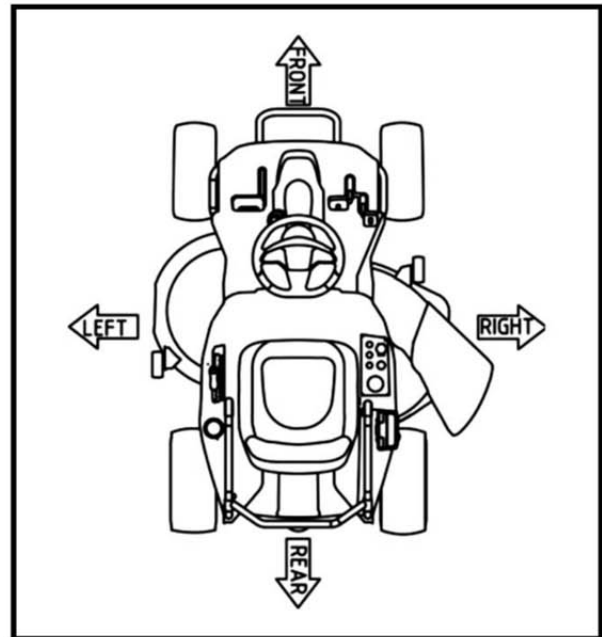
This symbol points out important safety instructions which, if not followed, could endanger the personal safety and / or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol, HEED ITS WARNING! Non-observance will result in the risk of injury to oneself or others.

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**⚠ DANGER!** This machine was built to be operated according to the safe practices in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This machine is capable of throwing objects and amputating fingers, hands, toes, and feet. Failure to observe the following safety instructions could result in serious injury or death. Non-observance will result in the risk of serious injury or death to oneself or others.

**NOTE** **⚠ IMPORTANT!** **⚠ HAZARD!** **⚠ CAUTION!** These give details or further information on what has already been said, with the aim of preventing damage to the machine.

**NOTE** Positions on the machine, such as “Front”, “Rear”, “Left” or “Right” hand side, refer to the direction of forward travel.



## 4. GENERAL SAFETY REGULATIONS

**⚠ WARNING!**   Read understand and follow all instructions on the machine and in the manual before attempting to operate. Keep this manual in a safe place for future and regular reference, and for ordering replacement parts.

**⚠ WARNING!** When using electric riding mowers basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injuries. Become familiar with the basic precautions outlined in the following pages.

**⚠ WARNING!** Battery posts, terminals, and related accessories contain lead and lead compounds. These chemicals cause cancer and reproductive harm. **Wash Hands After Handling!**

**⚠ IMPORTANT!** **48 VOLT BATTERY SYSTEM**

Service requires extreme care and knowledge of the system and should be performed only by a qualified service technician contact PRORUN Customer Service with questions or issues with this machine. Always use original equipment manufacturer's (OEM) replacement parts when servicing.

### WORK AREA SAFETY

1. Keep the work area clean and well lit. Cluttered or dark areas invite accidents.
2. Do not operate machines in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Machines create sparks which may ignite the dust or fumes.
3. Keep children and bystanders away while operating a machine. Distractions can cause you to lose control.

### ELECTRICAL SAFETY

1. Machine plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) machines. Unmodified plugs and matching outlets will reduce risk of electric shock.
2. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
3. Do not expose machines to rain or wet conditions. Water entering a machine will increase the risk of electric shock.
4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the machine. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
5. When operating a machine outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
6. If operating a machine in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

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## **PERSONAL SAFETY**

1. Stay alert, watch what you are doing and use common sense when operating a machine. Do not use a machine while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating machines may result in serious personal injury.
2. Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
3. Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/or battery pack, picking up or carrying the machine. Carrying machines with your finger on the switch or energizing machines that have the switch on invites accidents.
4. Remove any adjusting key or wrench before turning the machine on. A wrench or a key left attached to a rotating part of the machine may result in personal injury.
5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.
6. Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
7. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
8. Do not let familiarity gained from frequent use of machines allow you to become complacent and ignore machine safety principles. A careless action can cause severe injury within a fraction of a second.

## **MACHINE USE AND CARE**

1. Do not force the machine. Use the correct machine for your application. The correct machine will do the job better and safer at the rate for which it was designed.
2. Do not use the machine if the switch does not turn it on and off. Any machine that cannot be controlled with the switch is dangerous and must be repaired.
3. Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the machine before making any adjustments, changing accessories, or storing machines. Such preventive safety measures reduce the risk of starting the machine accidentally.

4. Store idle machines out of the reach of children and do not allow persons unfamiliar with the machine or these instructions to operate the machine. Machines are dangerous in the hands of untrained users.
5. Maintain machines and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the machine's operation. If damaged, have the machine repaired before use. Many accidents are caused by poorly maintained machines.
6. Keep cutting machines sharp and clean. Properly maintained cutting machines with sharp cutting edges are less likely to bind and are easier to control.
7. Use the machine, accessories and machine bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the machine for operations different from those intended could result in a hazardous situation.
8. Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the machine in unexpected situations.

## **BATTERY MACHINE USE AND CARE**

1. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
2. Use machines only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
3. When the battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws, or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
4. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
5. Do not use a battery pack or machine that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
6. Do not expose a battery pack or machine to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause an explosion.



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7. Follow all charging instructions and do not charge the battery pack or machine outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

### **SERVICE**

1. Have your machine serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the machine is maintained.
2. Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.

### **⚠ WARNING!**



**Never mow while people, especially children, or pets nearby.**

### **GENERAL OPERATION SAFETY**

1. Read the instructions carefully. Be familiar with the controls and how to use the equipment properly. Keep this manual in a safe place for future and regular reference and for ordering replacement parts. Know how to stop the machine and disengage it quickly.
2. Be familiar with all controls and their proper operation. Know how to stop the machine and disengage it quickly.
3. This machine is a precision piece of power equipment, not a plaything. Therefore always exercise extreme caution. This machine has been designed to perform one job: to mow grass. Do not use it for any other purpose.
4. In case of a system fault or a complete loss of battery power the mower can freewheel. Depress the Brake Pedal to maintain control and stop the unit. Restart the mower. If the problem persists, contact your Dealer or Service center.
5. Never carry passengers.
6. Never allow children under the age of 14 years of age to operate this machine. Children 14 and over should read and understand the instructions and safe operation practices in this manual, and on the machine, and should be trained and supervised by an adult.
7. Never allow people unfamiliar with these instructions to use the machine. Local regulations can restrict the age of the user.
8. Do not charge or operate the mower in the rain or in wet areas.
9. Do not mow on wet grass. Reduced traction could cause sliding.
10. Mow only in daylight or good artificial light. Never mow while dark.

11. In case of a system fault or complete loss of battery power, the mower can freewheel. Depress the brake pedal to maintain control and stop the unit. Restart the mower if the problem persists contact PRORUN Customer Service.
12. Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
13. Never carry passengers.
14. All drivers should seek and obtain professional and practical instruction. Such instruction should emphasize:
  - The need for care and concentration when working with ride-on machines.
  - You cannot use the brake to regain control of a ride-on machine sliding down a slope. The main reasons for loss of control are.
  - Insufficient wheel grip.
  - Over-speeding.
  - Inadequate braking.
  - The type of machine is unsuitable for its task.
  - Unawareness of the effect of ground conditions, especially slopes.
  - Incorrect hitching and load distribution.
15. To help avoid blade contact or a thrown object injury, keep bystanders, helpers, children, and pets, at least 75 feet from the machine while it is operational. Stop mower if anybody enters the area.
16. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones, toys, and other foreign objects which could be picked up and thrown by the blade(s). Thrown objects can cause serious personal injury.
17. Plan your mowing pattern to avoid discharge of material towards roads, sidewalks, bystanders, and the like. Also, avoid discharging material against a wall or obstruction which may cause discharge material to ricochet back towards the operator.
18. Always wear safety glasses or safety goggles to protect your eyes during operation and while performing an adjustment or repair. Thrown objects which ricochet can cause serious injury to the eyes.
19. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Loose fitting clothes and jewelry can be caught in movable parts. Never operate this machine with bare feet or sandals.

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20. Be aware of the mower and attachment discharge direction and do not point it at anyone. Do not operate the mower without the discharge cover in its proper place.
21. Do not put hands or feet near rotating parts or under the cutting deck. Contact with the blade(s) can amputate hands and feet.
22. A missing or damaged discharge cover can cause blade contact or thrown object injuries.
23. Stop the blades when crossing gravel drives walks or roads and while not cutting grass.
24. Watch for traffic when operating near or crossing roadways this machine is not intended for use on any public roadways.
25. Do not operate the machine while under the influence of alcohol or drugs.
26. Back up slowly. Always look down, and behind before and while backing to avoid a back-over accident. Be aware and pay attention to the safety system function that stops power to the blades when driving in reverse. If not functioning properly, contact PRORUN Customer Service or an authorized dealer for safety system inspection and repair.
27. Slow down before turning. Operate the machine smoothly avoid erratic operation and excessive speed.
28. Stop the mower, disengage blades, set parking brake and wait until the blade comes to a complete stop before unclogging the chute, removing any grass or debris, or making any adjustments.
29. Never leave a powered machine running and unattended. Always stop the mower, turn off the blades, set the parking brake, and remove the Key before dismounting.
30. Use extra care when loading or unloading the machine into a trailer or truck. This machine should not be driven up or down ramp(s), because the machine could tip over causing serious personal injury, The machine must be pushed manually on ramp(s) to load or unload properly.
31. Do not turn the Key off and coast downhill.
32. Check overhead clearances carefully before driving under low hanging tree branches, wires, door openings, etc., where the operator may be struck or pulled from the machine, which could result in serious injury.
33. Do not attempt to mow through unusually tall dry grass (e.g., pasture) or piles of dry leaves. Dry grass or leaves may build up on the mower's deck presenting a potential fire hazard.

34. Use only accessories and attachments approved for this machine by the machine manufacturer. Read, understand, and follow all instructions provided with the approved accessory or attachment.
35. Data indicates that operators aged 60 years and above are involved in a large percentage of riding mower related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injuries.
36. Use safety and slip-resistant footwear, snug fitting clothing and eye, hearing and head protection devices. Use the anti-vibration (AV) glove.
37. It is believed that a condition called Raynaud's phenomenon, which affects the fingers of certain individuals may be brought about by exposure to vibration and cold. Loss of color and numbness in the fingers. The following precautions are strongly recommended because the minimum exposure which might trigger the ailment is unknown.
38. Keep your body warm, especially the head, neck, feet, ankles, hands and wrists. Maintain good blood circulation by performing vigorous arm exercises during frequent work breaks and also by not smoking. Limit the hours of operation.
39. All the above mentioned precautions do not guarantee that you will not sustain white finger disease or carpal tunnel syndrome. Therefore, continual and regular users should monitor closely the condition of their hand's fingers. If any of the above symptoms appear, seek medical advice immediately.
40. During a working day, you should take frequent and adequate breaks to prevent damage from vibration and damage to the ears.
41. Alert! National regulations (Occupational Safety and Health, environment) may be present, which can restrict the use of the machine.
42. Long-term exposure to noise can result in permanent hearing impairment. So always use approved hearing protection.

If situations occur which are not covered in this manual use care and good judgment contact pro run customer service for assistance.

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## **DESIGNATED USE**

The riding mower is intended for mowing in domestic gardens and allotments with a Max Slope of 15°. Additional applications, such as for mulching, are only permitted if the original accessories are used and in compliance with the maximum load values. This appliance is intended solely for use in noncommercial applications. Any other uses (as well as unauthorized conversions or add-ons) are regarded as contrary to the intended use and will result in exclusion of the warranty; the manufacturer will thus decline any responsibility for damage and/or injury suffered by the user or third parties.

## **POSSIBLE MISUSE**

The riding mower is not designed for commercial use in public parks, sports grounds, agriculture, or forestry. Check the relevant road traffic regulations before driving machine on a public road. If transporting the machine on another vehicle always use approved cargo control tie downs and make sure that the machine is securely held.

## **OPERATOR SAFETY**

### **⚠ WARNING!**

1. Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. They do not understand the dangers. Never assume that children will remain where you last saw them.
  - a) Keep children out of the mowing area and in watchful care of a responsible adult other than the operator.
  - b) Be alert and turn the machine off if a child enters the area.
  - c) To avoid back-over accidents, always look behind and down for small children.
  - d) Never carry children, even with the blades shut off, they may fall off and be seriously injured or interfere with safe machine operation.
  - e) Use extreme care when approaching blind corners, doorways, shrubs, trees, or other objects that may block your vision of a child who may run into the path of the machine.
  - f) Remove key when machine is unattended to prevent unauthorized operation.

## **⚠ IMPORTANT!**



**Anyone using the riding lawn mower should first be acquainted with the instructions in this manual and completely familiarize themselves with the controls to ensure correct and safe machine use.**

2. Never allow children under 14 years of age to operate the machine. Children 14 years and over should read and understand the instructions, observe safe operation practices as outlined in this manual and on the machine, and be trained and supervised by an adult.
3. Comply with local regulations on the minimum age of people operating the equipment.
4. Do not allow children and young people to play on the machine.
5. Only mow during daylight hours or with good artificial lighting.
6. Keep other people out of the danger area.
7. The user is responsible for accidents involving other people and their property.
8. Only use genuine spare parts and genuine accessories.
9. Repairs on the machine must be carried out by the manufacturer or by one of its customer service centers.
10. Wear ear protection.
11. The riding mower does not have approval for road use and may not be driven on public roads.
12. Do not mow during thunderstorms. No protection against lightning strikes.
13. Never drive transversely to the slope.
14. Do not use the riding lawn mower and/or any accessories attached to it in the event of fatigue, illness, or after the consumption of alcohol, drugs or medications that impair reaction time and/or ability to focus.
15. Comply with the permitted operating times in your vicinity.
16. The riding mower can cause serious injuries due to its dead weight. Take particular care when loading and unloading the ride-on mower to transport it on a vehicle or trailer.
17. This riding mower is not allowed to be towed. Use a suitable vehicle for transportation on public roads

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**⚠ HAZARD!** Do not carry passengers.

1. Such overloads could negatively affect the stability of the machine and overstress the mechanical parts.
2. Do not make any changes to the machine.
3. Incorrect use of the machine as indicated in this paragraph will invalidate the warranty and relieve the manufacturer of any liability in case of any ensuring injuries or damage.

**⚠ IMPORTANT!** Users of the riding mower must be in good mental and physical shape; do not use the machine when tired feeling bad or under the influence of drink, drugs, or medical products that reduce promptness of reactions.

## TOWING

**⚠ WARNING!** **⚠ IMPORTANT!** Tow only with a machine that has a hitch designed for towing.

1. Do not attach towed equipment except at the hitch point.
2. Follow the manufacturer's recommendation for weight limits for towed equipment and towing on slopes.
3. Never allow children or other others in or on the towed equipment.
4. On slopes, the weight of the towed equipment may cause loss of traction and loss of control.
5. The maximum weight on the hitch is 50 pounds and the maximum total load is 250 pounds.
6. Loss of traction can occur on slopes 5° (9%) maximum grade.
7. Travel slowly and allow extra distance to stop.
8. Use caution during turns to avoid jack-knifing.
9. Use extra caution when operating in reverse.
10. Do not modify or repair the hitch, replace the hitch if damaged.
11. Travel slowly and allow extra distance to stop.
12. Do not turn the Key off and coast downhill.

## TRAINING & PREPERATION

**The Driver Must Be Suitably Trained and Should Focus On:**

1. Be careful and concentrate during work.
2. The fact that a machine sliding down a gradient cannot be controlled using the brakes. The main causes of losing control of the machine are:

- Lack of wheel grip.
- Too much speed.
- Inadequate breaking.
- Machine not suitable for job to be done.
- Lack of acquaintance with effects deriving from terrain conditions, especially on slopes.

### **The Driver Must Be Suitably Prepared and Should Focus On:**

1. During work wear solid shoes with non-slip soles and protective clothes.
2. Always use a hearing protection headset, protective eyewear, or a visor.
3. Do not use the equipment if you are barefoot or wearing sandals.
4. Do not use the equipment if you are wearing loose-fitting clothes that may get caught up.
5. Carefully inspect the area where you intend to use the lawnmower and remove any objects that could be launched by the machine.

## **RULES FOR CORRECT OPERATION**

**⚠ CAUTION!**     **Risk of overturning on steep gradients. Do not use the machine on lawns with slopes above 15°. Remember, there is no such thing as a “safe” gradient. Moving on sloped lawns requires special care and experience.**

### **To prevent overturning:**



1. Always mow either up or down, never mow across slopes.
2. Never stop or start suddenly on slopes.
3. Engage the drive gently and always keep the drive engaged, especially on downward slopes.
4. Speed must be reduced on slopes and sharp bends.
5. Be careful of mounds, bumps, and hidden hazards.



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## **⚠ CAUTION!** The driver should be aware:

1. Be very careful when changing direction on slopes.
2. Stop the blade when crossing terrain other than lawns and when the riding mower is transported to and from the work area.
3. Disengage the blade and drive control before starting the machine.
4. Hands and feet must be kept away from the blade. Always keep away from the grass unloading opening
5. Watch out for traffic when crossing or near roadways.
6. Never direct discharge of material toward bystanders nor allow anyone near the machine while in operation.

**⚠ HAZARD!**   **Before carrying out any inspection, cleaning, and servicing operations on the machine, stop the machine, take out the ignition Key and follow the instructions in the operator's manual.**

**⚠ HAZARD!**   **The blades are sharp, risk of a serious injury!**  
**Before carrying out any inspection, cleaning, and repair operations on the cutting parts, stop the machine and take out the ignition Key.**

**⚠ HAZARD!**   **The blades are sharp, risk of a serious injury!**

1. Wait for the blade and all the moving parts to come to a halt before touching them. The blade will continue turning for some time after switching off the machine or disabling the blade control.
2. Disengage the blade during transport and every time it is not used.

## **GENERAL SERVICE**

1. Contact PRORUN Customer Service with questions or issues with this machine. This will ensure that the safety of the riding mower is maintained.
2. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
3. Do not use the charger in the rain.
4. Replace batteries if the battery capacity drops below 50% of the initial capacity.
5. The use of old or faulty batteries could cause a system fault that results in loss of power.
6. Turn off and remove the Key before servicing, cleaning, or removing materials from the mower.

7. Before cleaning, repairing, or inspecting, make certain the blade(s) and all moving parts have stopped.
8. Periodically check to make sure the blades come to a complete stop within approximately 5 seconds after operating the blade disengagement control. If the blades do not stop within this time frame, contact PRORUN Customer Service.
9. Regularly check the Safety Interlock System for proper function as described later in this manual. If the Safety Interlock System does not function properly, contact PRORUN Customer Service.
10. Check the blade(s) at frequent intervals for proper tightness. Also visually inspect blade(s) for damage (e.g., excessive wear, bent, cracked). Replaced the blade(s) with the original equipment manufacturer's (OEM) blade(s) only, listed in this manual. "Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!"
11. Mower blades are sharp. Wrap the blade(s) or wear gloves and use extra caution when servicing them.
12. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
13. Never tamper with the Safety Interlock System or other safety devices. Check their proper operation regularly.
14. After striking a foreign object, stop the mower and thoroughly inspect the machine for any damage. Repair the damage before starting and operating.
15. Never attempt to make adjustments or repairs to the mower while it is running.
16. The discharge cover is subject to wear and damage which could expose moving parts or allow objects to be thrown. For safety precaution, frequently check components and replace immediately with original equipment manufacturer's (OEM) parts only, listed in this manual. *Use of part which do not meet the original equipment specifications may lead to improper performance and compromise safety!*
17. Maintain or replace safety and instruction labels as necessary.

## **GENERAL MAINTENANCE**

1. Make sure all the nuts and screws are tight, so the riding mower is in good operating condition and safe to use.
2. For safety reasons, repair any worn or damaged parts only using original spare parts. Non-original spare parts may not suit properly and cause damage and dangers.

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3. When the machine must be parked, stored, or left unattended, lower the blade deck, and remove the ignition Key to prevent unauthorized persons starting the machine.
4. Regularly check, or have an after-sale center check, the tightening of the blade and supporting bolts.
5. Blade sharpening and balance adjustment, including removal and refitting, are demanding operations and will require specific competence, as well as special equipment. Especially for safety reasons these operations must be carried out by a specialized after-sale center. The same applies for replacing the blade with a new one.

### **⚠ CAUTION!**



**Wear heavy gloves.**

**The riding mower blade is sharp and can cut the skin. You need to take the necessary precautions whenever you work near or on the blade.**

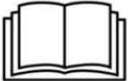








### **STORAGE**

Store idle riding mower indoors when not in use. The mower should be stored in an indoor dry and locked up place - OUT OF THE REACH OF CHILDREN!




## 5. SYMBOLS

This page depicts and describes safety symbols that may appear on this product. Read, understand, and follow all instructions on the machine before attempting to assemble and operate. The labels on the machine are to be considered an integral part of the machine. Should a label come off or become illegible, contact your dealer to replace it.

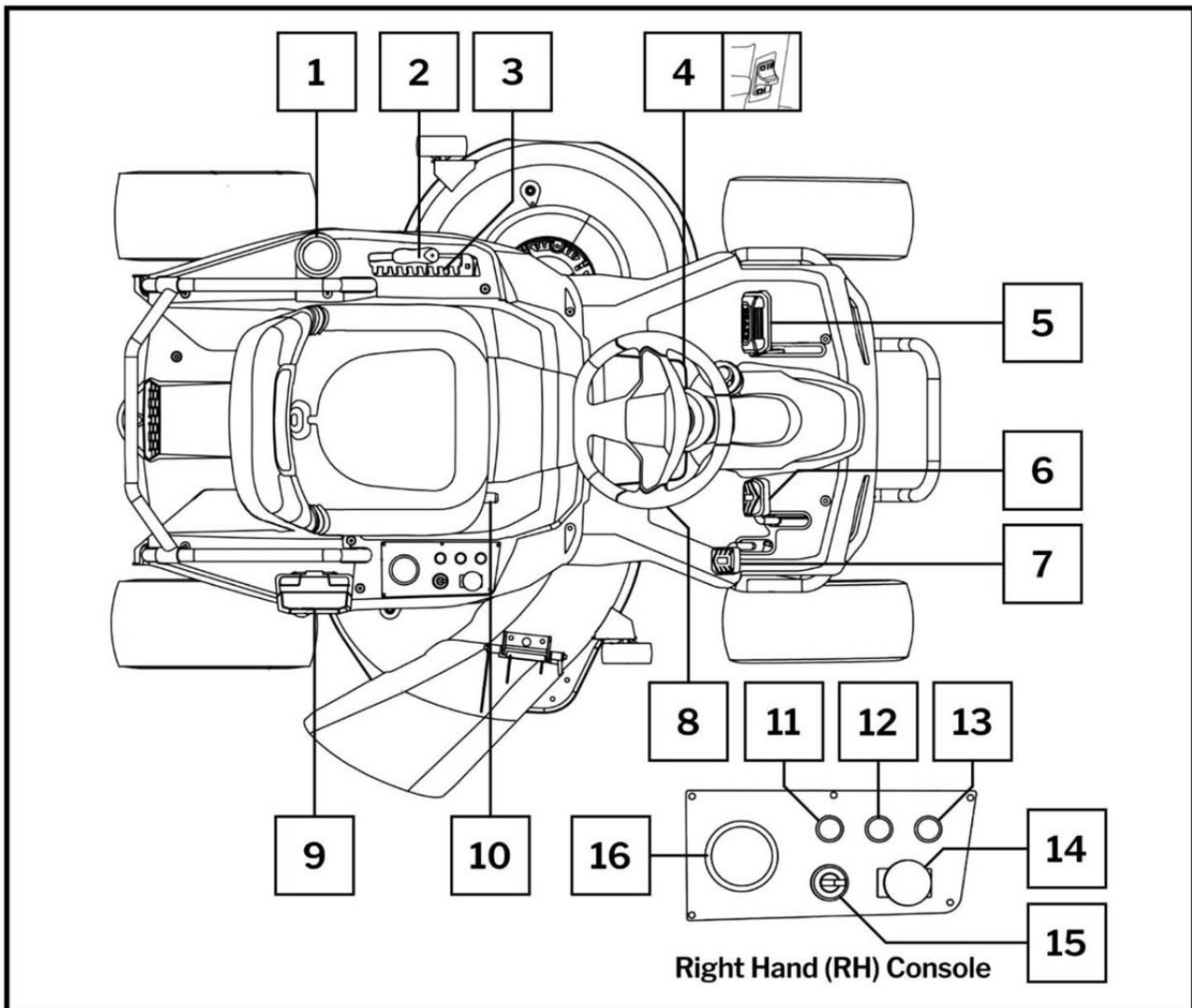
**⚠ WARNING!** **Your Responsibility - Restrict the use of this power machine to persons who read, understand, and follow the warnings and instructions in this manual and on the machine. SAVE THESE INSTRUCTIONS!**

SYMBOLS	MEANING
	<b>READ THE OPERATORS MANUAL(S)</b> Read, understand, and follow all instructions in the manual(s) before attempting to assemble and operate.
	<b>WARNING - ROTATING BLADES</b> Do not put hands or feet near rotating parts or under the cutting deck. Contact with the blade(s) can amputate hands and feet.
	<b>WARNING - EJECTED OBJECTS</b> This machine may pick up and throw objects which caused his personal injury
	<b>WARNING - ELECTRIC SHOCK</b> Do not use the charger in the rain and do not run the mower with the charger plugged in. Do not operate the mower in rain or wet conditions.
	<b>BYSTANDERS</b> Keep bystanders, helpers, children, and pets at least 75 feet from the machine while it is in operation.
	<b>WARNING - SLOPE OPERATION</b> Do not operate this machine on a slope greater than 15 degrees.
	<b>DANGER - ROTATING BLADES</b> To reduce the risk of injury, keep hands and feet away. Do not operate unless discharge cover or grass catcher is in its proper place. If damaged, replace immediately.
	<b>DANGER - ROTATING BLADES</b> Never carry passengers. Never carry children, even with the blades off.
	<b>DANGER - ROTATING BLADES</b> To avoid a back-over accident, keep children away from the machine while it is in operation.

# 48V RIDING MOWER MODEL: PRM48V38

SYMBOLS	MEANING
	<b>WARNING - FIRE HAZARD</b> Do not place gas container inside cargo box.
	<b>WARNING - FIRE HAZARD</b> Do not allow debris to accumulate, the buildup of the debris can lead to a fire.
	<b>WARNING - MOWERS STABILITY</b> The cargo box is not a seat. Do not allow anyone to sit or stand on the cargo box. The storage area has a maximum weight capacity of 20 pounds. Do not overload the cargo box, it may damage the machine and affect the stability of the machine.

## IDENTIFICATION OF THE MAIN COMPONENTS



- 1) Cup Holder
- 2) Deck Height Index Bracket
- 3) Deck Lift Handle (Manual Lift)
- 4) Park Brake Handle
- 5) Brake Pedal
- 6) Forward Drive Pedal
- 7) Reverse Drive Pedal
- 8) Steering Wheel
- 9) Seat Adjustment Lever
- 10) Charging Port and Port Cover
- 11) Low Cutting Speed Button
- 12) Cruise Control Button
- 13) Reverse Mode Operation Button
- 14) Blade Start / Stop Knob, Power Take Off (PTO)
- 15) Key Switch
- 16) Battery Charge Level and Fault Warning

## 6. SET UP

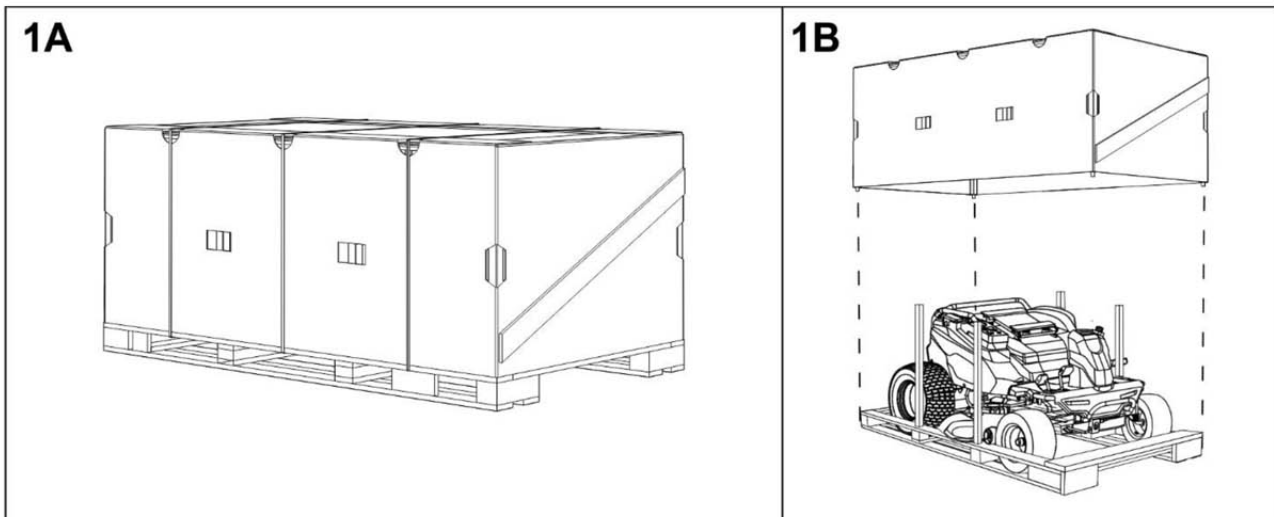
### UNPACKING AND ASSEMBLY

#### 1. OPENING THE PACKAGING

The machine is shipped partially dismantled and packaged in a metal crate to protect it during transport. The packaged machine will appear as in Fig 1A.

A. Remove all shrink wrap and cut the two plastic straps that surround the package.

B. Lift off the corrugated exterior cover assembly and discard the four wooden support posts. (Fig 1B)



**⚠ CAUTION!**

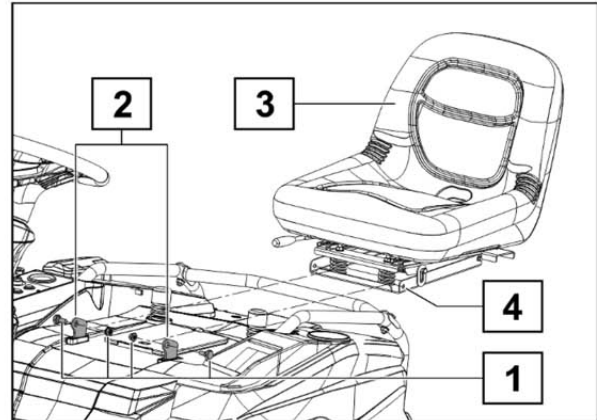


**Wear heavy gloves.**

## 48V RIDING MOWER MODEL: PRM48V38

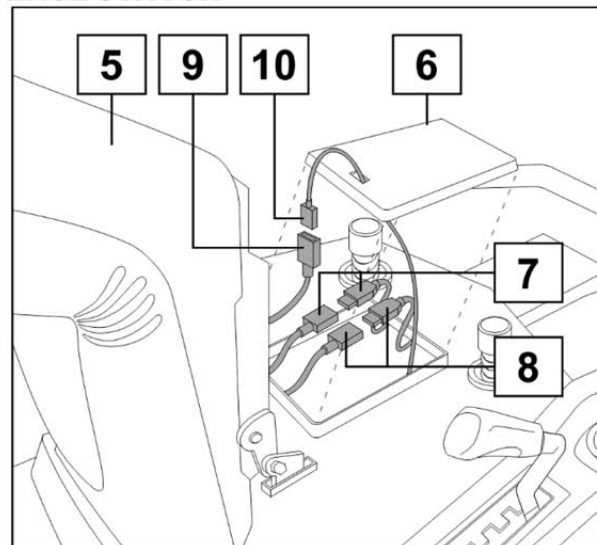
### 2. MOUNT THE SEAT

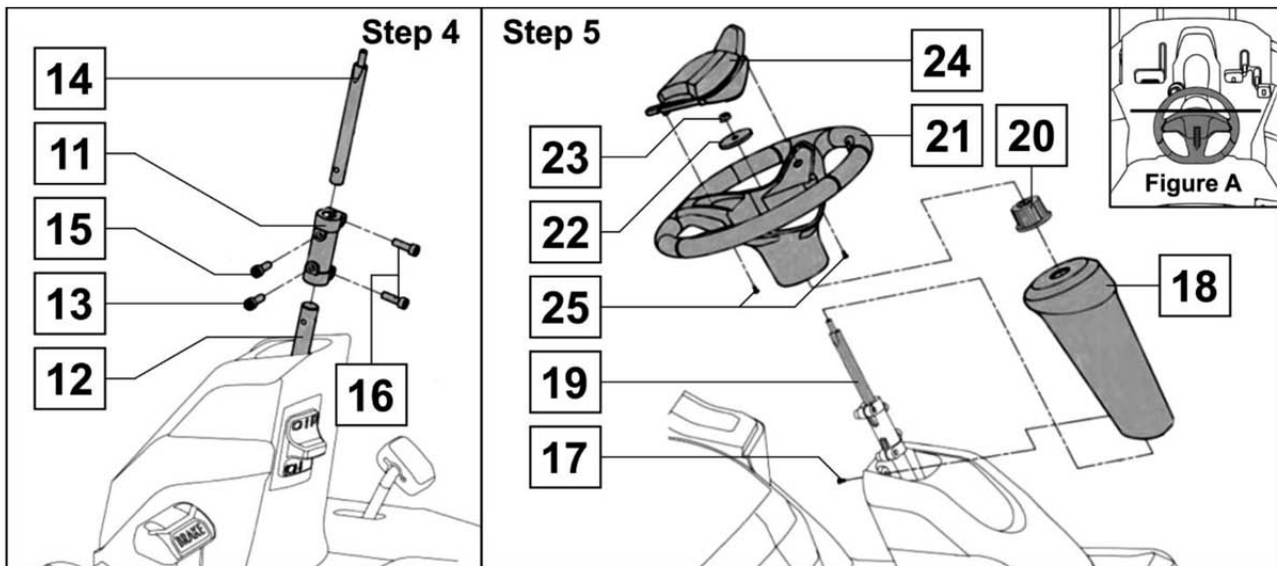
- A. Remove the two nuts and bolt (1) from mower's mounting brackets (2).
- B. Place the Seat (3) on top of springs and align the holes on the seat's mounting bracket (4) with the holes in mower's mounting brackets (2).
- C. Reinsert the two nuts and bolt (1) and tighten. Test that Seat rotates upwards towards the steering wheel.



### 3. CONNECT BATTERY AND OPERATOR PRESENCE SWITCH

- A. Lift the Seat (5) and remove the Battery Compartment Lid (6)
- B. Connect the RED Positive Wire Connectors (7) and the BLACK Negative Wire Connectors (8),
- C. Connect the Wire Harness (9) to the Operator Presence Switch (10) under the seat.
- D. Replace Battery Compartment Lid (6)





#### 4. MOUNT THE STEERING COLUMN

- A. Mount the Coupler (11) onto the mower's Steering Shaft (12) using screw M8 x 20 (13).
- B. Insert the Steering Column (14) into the Coupler (11) and fasten with screw M8 x 20 (15).
- C. Complete assembly by tightening the screws M8 x 20 (16).

**NOTE** The screws for this assembly are typically found installed in the Couple.

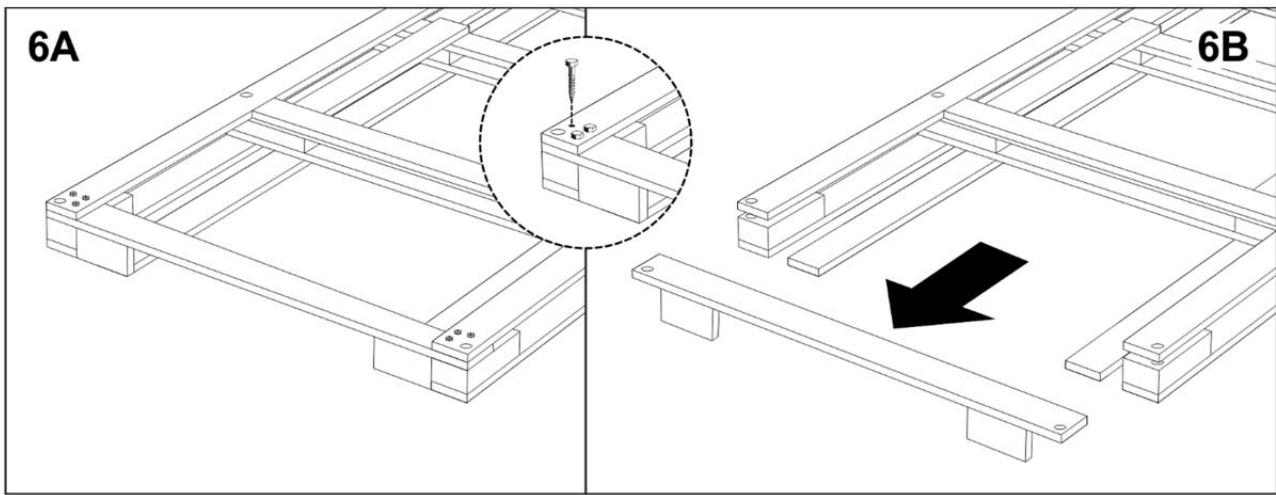
#### 5. MOUNTING THE STEERING COLUMN COVER AND STEERING WHEEL

- A. Remove the Column Cover Screw M6 X 25 (17) from the bucket nut mounted onto the Column Cover (18).
- B. Slide the Column Cover (18) over the Steering Column assembly (19). Reinsert and tighten Column Cover Screw M6 X 25 (17).
- C. Insert the Splined Hub (20) onto the Steering Column assembly (19). Mount the Steering Wheel (21), Spacer (22), and secure assembly with Nut M8 (23).
- D. Insert Steering Wheel Cover (24) into the Steering Wheel (6) and secure with two Screws (25) (Screws are typically found installed in the Steering Wheel Cover).

**NOTE** Be sure to align the direction of Steering Wheel as shown in Figure A.



## 48V RIDING MOWER MODEL: PRM48V38



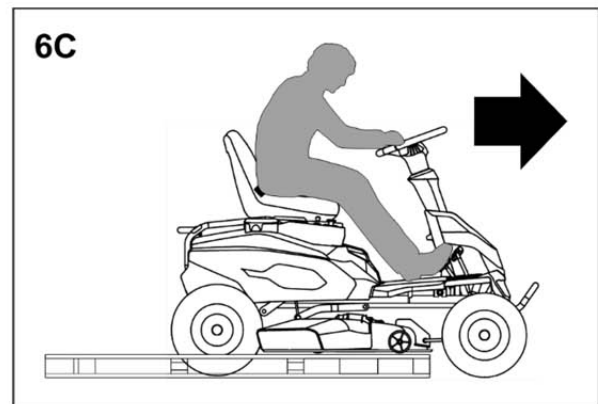
### 6. DRIVE RIDING MOWER OFF THE PALLET

**⚠ IMPORTANT!** Fully charge batteries before the first time you use the mower.

A. After installing the steering wheel and seat, increase the tractor's cutting deck height to its maximum level.

B. Remove the six bolts near the front of the riding mower's pallet (Fig 6A) and remove the wooden cross plank from the base pallet. (Fig 6B).

C. Follow the instructions in section CONTROLS AND STARTUP and carefully drive the Riding Mower forward off the wooden base platform. (Fig 6C)



### **⚠ CAUTION!**

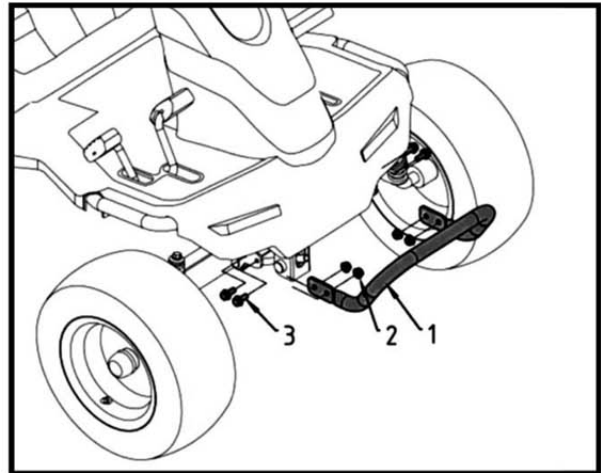
To prevent damaging the blade deck and blade, move the cutting deck to its maximum height before driving the riding mower off the wooden base platform. Be careful when performing this delicate unpacking operation.

## MACHINE ASSEMBLY

### MOUNTING THE FRONT BUMPER

Mount the front bumper onto the bottom of the frame using the four M8 x 25 (3) Bolts and four M8 (2) Nuts.

**NOTE** The front bumper is typically pre-installed before shipping.

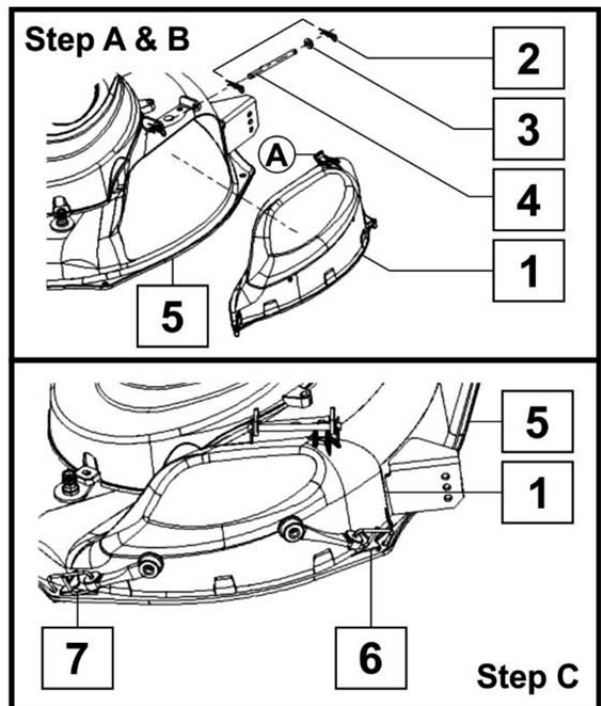


### MOUNTING THE MULCHING KIT

NOTE: The mulching kit can be assembled on the cutting deck with either the discharge chute in place or removed. When keeping the discharge chute in place, rotate the chute up and proceed to Step B.

- A. To remove the discharge chute, remove one of the cotter pins (2) and pull out the pin (4). Replace the pin and lock it into place by replacing the cotter pin. Be sure to store the torsion spring with the discharge chute for reassembly.
- B. Attach the mulch cover (1) by slipping the top locking hook (A) under the installed pin (4) and rotating the cover downward.
- C. Lock the mulch cover (1) in place by fastening the metal buckles (6 & 7) on both sides of the mulching cover

into the corresponding slots located on the cutting deck (5).



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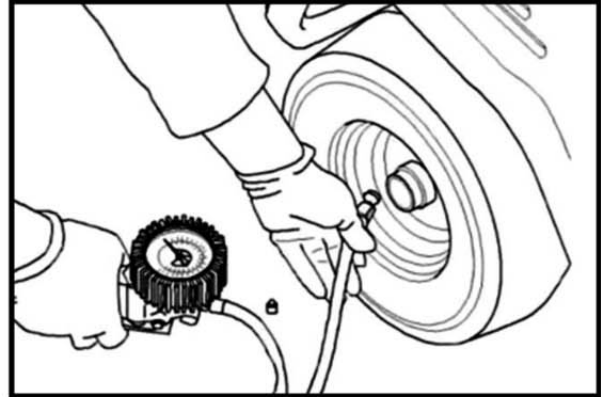
## TIRE PRESSURE

Correct tire pressure ensures machine stability and the correct alignment of the blade with the ground. Periodically check the pressure of the tires and regulate according to the pressures shown on the technical data table. To inflate the tires, use an inflation gun featuring pressure gauge (Fig 30).

### Tire Pressures:

FRONT: 30 PSI (15 X 6.00 - 6)

REAR: 28 PSI (16 X 6.5 - 8)

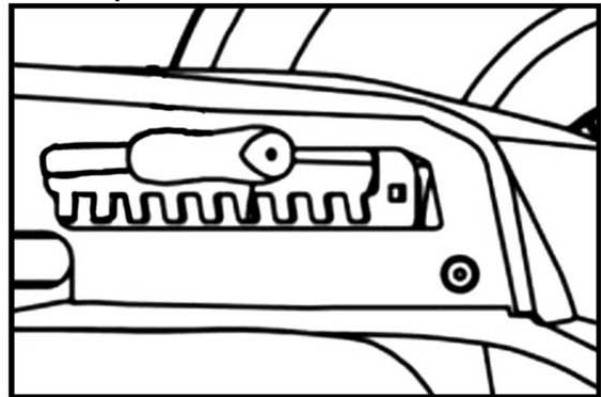


## 7. CONTROLS AND OPERATIONS

### CONTROLS AND CONTROL INSTRUMENTS

#### BLADE & DECK LIFT UP / DOWN LEVER (Parts 2 & 3)

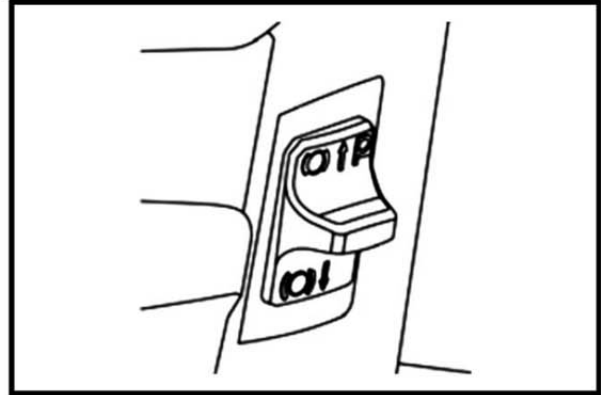
Lifts or lowers the blade deck and thereby adjusts the grass cutting height. There are eight possible height adjustments. Move the lever to the required position. Cutting heights: see technical data table.



**⚠ WARNING!** Lower Cutting Height Settings has more potential for scalping especially on uneven terrains.

## PARK BRAKE HANDLE (Part 4)

The Park Brake Handle is located at the front of the console under the steering wheel. It is used to engage the Parking Brake when the mower is at rest. Refer to the operation section of this manual for detailed instructions.

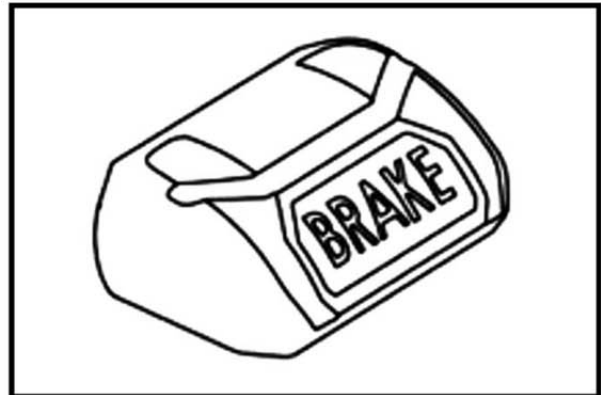


**NOTE** The Park Brake Handle must be set whenever the operator leaves the seat.

**⚠ WARNING!** Never leave a powered machine running and unattended! Always disengage the Blade Start / Stop Knob, stop the mower, set the Parking Brake, and remove the Key to prevent injuries or damage.

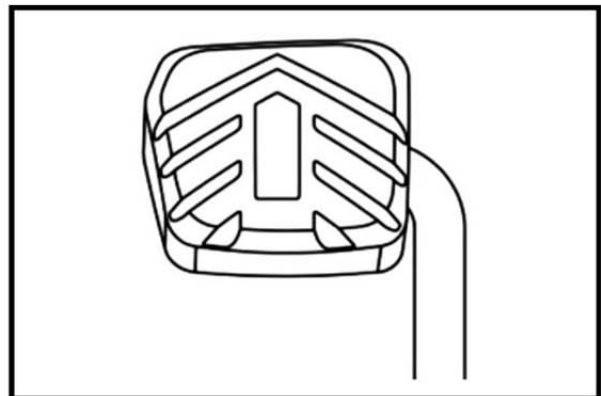
## BRAKE PEDAL (Part 5)

The Brake Pedal is located on the left front side of the steering column. The Brake Pedal can be used for sudden stops or when setting the parking brake.



## FORWARD DRIVE PEDAL (Part 6)

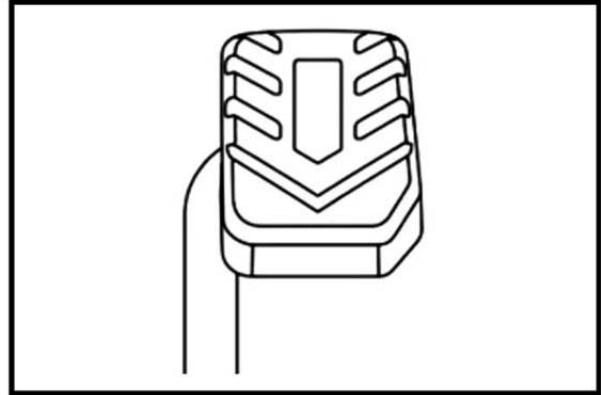
The Forward Drive Pedal is located on the front right side of the steering column. Press the Forward Drive Pedal forward to travel forward. The ground speed is controlled with this pedal. The further forward the pedal is moved the faster the mower will travel. The pedal and speed will return to their original position when released.



## ***48V RIDING MOWER MODEL: PRM48V38***

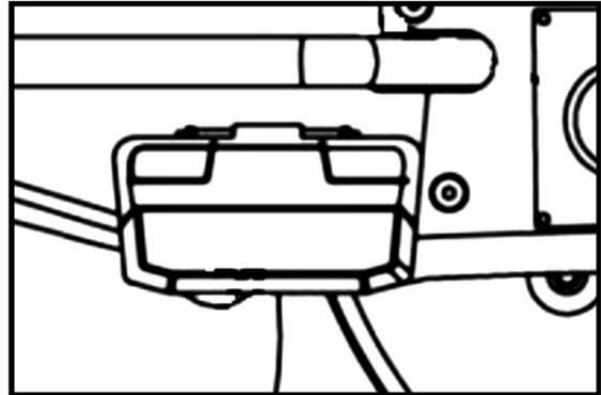
### **REVERSE DRIVE PEDAL (Part 7)**

The Reverse Drive Pedal is located on the front right side of the steering column. The ground speed is controlled with this pedal. The further forward the pedal is moved the faster the mower will travel. The pedal and speed will return to their original position when released.

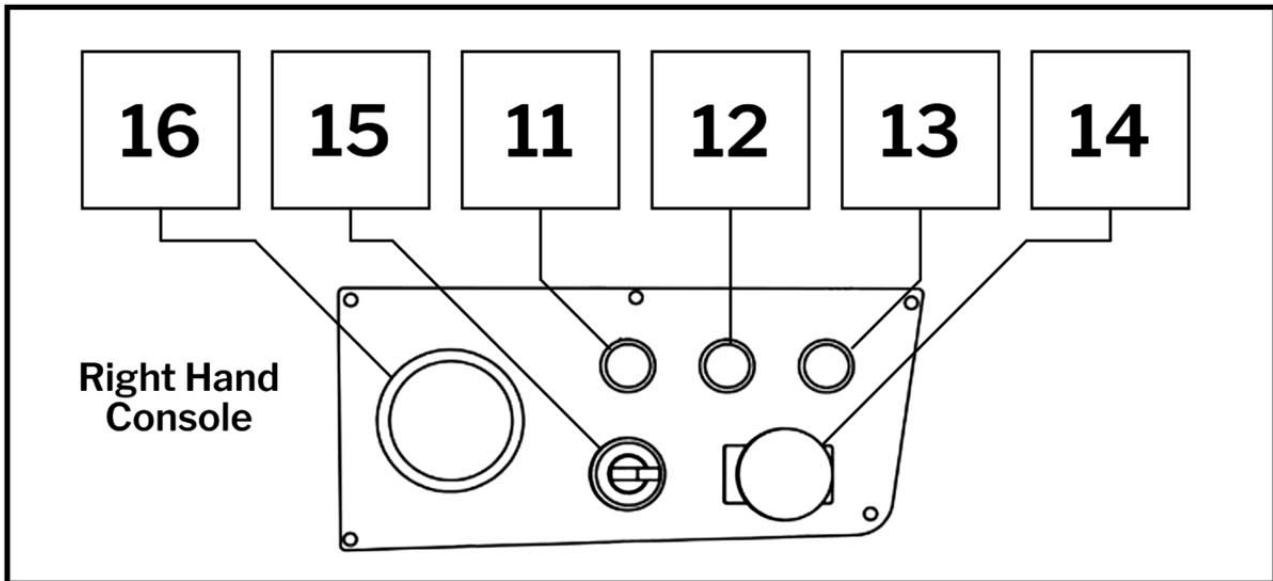


### **CHARGING PORT AND PORT COVER (Part 10)**

The Charging Port is located next to the Right Hand Console. To access the charging port, lift the charging port cover up.



## RIGHT HAND CONSOLE



### LOW CUTTING SPEED BUTTON (Part 11)

The Low Cutting Speed Button is located on the Right Hand Console next to the Cruise Control Knob. Pressing the Low Cutting Speed Knob reduces the blade's rotation to the lower speed of 2900 RPM (Normal rotational blade speed is 3200 RPM).

### CRUISE CONTROL BUTTON (Part 12)

The Cruise Control Button is located on the Right Hand Console next to the Reverse Mode Operating Button (RMO). Pressing the Cruise Control Button while the mower is in motion allows the mower to remain at a constant speed without pressing the Forward Drive Pedal. The Cruise Control can be disengaged by pressing either the Cruise Control Button, or the Brake Pedal, or the Forward Drive Pedal, or the Reverse Drive Pedal.

**NOTE** Cruise Control will not engage in reverse.

### REVERSE MODE OPERATION BUTTON (RMO) (Part 13)

The Reverse Mode Operation Knob (RMO) is located on the Right Hand Console to the left of the Blade Start / Stop Knob.

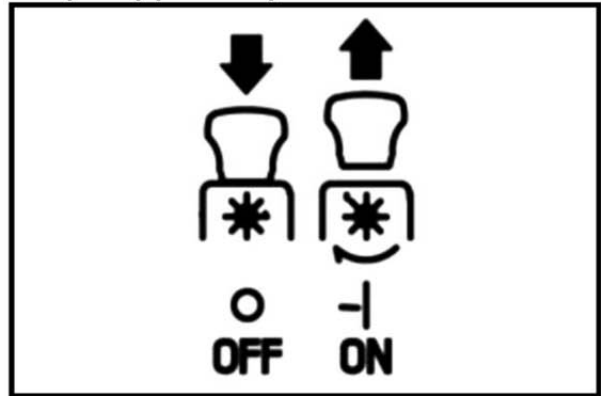
The blades will stop when traveling in reverse. To keep the blades rotating when traveling in reverse, press the Reverse Mode Operating Button (RMO).

**NOTE** Mowing in reverse is not recommended.

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### BLADE START / STOP KNOB, POWER TAKE OFF (PTO) (Part 14)

The Blade Start / Stop Knob is located on the Right Hand Console in front of the Key Switch. The Blade Start / Stop Knob operates the electronic motors on the cutting deck. Pull the Knob upward to engage the rotation of the blades or push the Knob downward to disengage the rotation of the blades.



### KEY SWITCH (Part 15)

The Key Switch is located on the Right Hand console.

1. The Key Switch sends power to the Ignition Control Module when the switch is in the  position
2. The Key Switch sends power to both the Ignition Control Module and the LED Lights when the switch is in the  $P^{\equiv}$  position
3. Turning the Key Switch to the  position turns the machine's power off and stops the flow of the power to the Vehicle Control Modular.

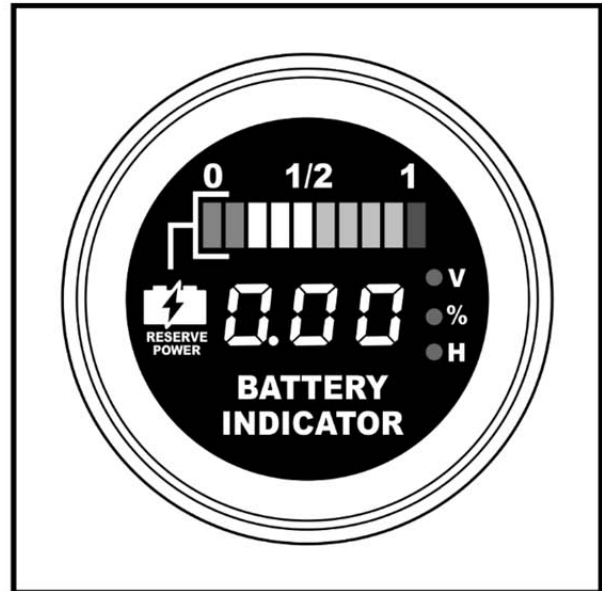
## BATTERY CHARGE LEVEL AND FAULT WARNING (Part 16)

### BATTERY LEVEL INDICATOR:

The bar graph indicates the average charge capacity of the batteries. The blue bar (designated as "1") indicates a full charge. When the battery charge is too low, the blades will disengage, one of the red bars will flash, and the audible fault indicator will beep. At this time the mower will retain enough charge to drive the mower to the recharging stations.

### HOURS OF USE (TOTAL)

Indicates the total hours of driving time that the mower has been used. Refer to the MAINTENANCE SCHEDULE in this manual to determine when the mower has reached the recommended service intervals. The hour meter cannot be reset.



### AUDIBLE FAULT INDICATORS

- SEAT SWITCH FAULT
- LOW BATTERY INDICATOR
- BATTERY FAULT (Overload and/or Temperature)
- CUTTING DECK MOTORS OVERLOAD
- DRIVE MOTORS OVERLOAD

**NOTE** Contact PRORUN Customer Service when audio fault indicators persist.

## SAFETY RECOMMENDATIONS

**⚠ DANGER!** The machine must only be used for the purpose for which it was designed (cutting grass). Do not tamper with or remove the safety devices fitted on the machine.

**REMEMBER THAT THE USER IS ALWAYS RESPONSIBLE FOR DAMAGE AND INJURY TO OTHERS. Before using the machine :**

1. Read the general safety regulations, paying particular attention to driving and cutting slopes.



## **48V RIDING MOWER MODEL: PRM48V38**

2. Carefully read the instructions for use. Make sure you are familiar with the controls and know how to stop the blades and the engine quickly.
3. SAFETY – Do not risk INJURY or DEATH. Allow only those who have become competent in its usage to operate this machine.
4. Do not charge or operate the mower in the rain or in wet areas.
5. Do not mow on wet grass. Reduced traction could cause sliding.
6. Before starting the mower or beginning operations, be familiar with the controls. The operator must be in the operator seat. The blades must be disengaged, and the Parking Brake engaged.
7. Keep all Shields in place. Keep away from moving parts.
8. Never put your hands or feet next to or beneath the rotating parts and always keep away from the exit.
9. Do not use the machine when in a precarious state of health or under the effect of medicine or any other substances that can reduce your reflex actions and your ability to concentrate. It is the user's responsibility to assess the potential risk of the area where work is to be carried out, and to take all the necessary precautions to ensure his own safety and that of others, particularly on slopes or rough, slippery, and unstable ground.
10. Do not leave the machine on high grass with the engine running to avoid the risk of starting a fire.
11. NO RIDERS! Keep all people and pets a safe distance away. Look behind and down to both sides of the mower before and while backing up.
12. Avoid slopes where possible. Never operate on slopes greater than 15°. Slopes with a greater incline present dangerous operating conditions that may cause the mower to tip or roll over.
13. Before leaving the operator's seat, disengage the blades and engage the Parking Brake, shut off the mower, and remove the Key. Wait for all movements to stop before servicing or cleaning.
14. Avoid any sudden movements of the steering wheel when starting and stopping. Keep a firm grip on the steering wheel at all times.
15. Be careful when operating near roadways. Stop the mower's motion and wait for vehicles to pass before operating along the road.
16. Do not operate the mower with the mower deck removed. Removal of the deck will change the balance of the mower and could contribute to a mower tipping or roll over.

17. Avoid operating on traction surfaces that are unstable; use extreme caution if the surface is slippery.
18. Do not stop the mower or park the mower over combustible materials such as dry grass, leaves, debris, etc.

## **SAFETY INTERLOCK SYSTEM**

- This mower is equipped with a Safety Interlock System for the protection of the operator. If the Interlock System should ever malfunction, do not operate the mower. Contact PRORUN Customer Service.
- The Safety Interlock System prevents the mower from starting unless the Parking Brake is set, and the blades are disengaged.
- The mower will automatically shut off if the operator leaves the seat.
- To test the Safety Interlock System, leave the mower running, engage the Park Brake Handle, and lift up off from the seat for a few seconds. If the mower shuts off the system is working correctly. If the mower does not shut off, do not operate the mower. Contact PRORUN Customer Service.

## **DIRECTIONS BEFORE STARTING WORK**

Before you operate the mower, study this operator's manual carefully to familiarize yourself with the operation of all instruments and controls. It has been prepared to help you operate and maintain your mower's efficiency. Before starting to mow, it is necessary to carry out several checks and operations to ensure you can work efficiently and in maximum safety.

### **SEAT ADJUSTMENT**

adjust the seat for operator's maximum comfort and visibility and for maintaining complete control of the mower.

### **TIRE PRESSURE**

Having the right tire pressure is the main condition for ensuring that the cutting deck is horizontal and mows evenly. Unscrew the valve caps and connect a compressed air line with a gauge to the valves.

**⚠ WARNING!** Do not operate the mower if the safety interlock system is malfunctioning. This system was designed for your safety and protection.

## **CHECKING MACHINE SAFETY AND EFFICIENCY**

1. Check that the safety devices function as described.
2. Check that the brake is in perfect working order.

## **48V RIDING MOWER MODEL: PRM48V38**

3. Do not start mowing if the blades vibrate or if you are unsure whether they are sharp enough.

### **Always Remember That:**

1. A badly sharpened blade pulls at the grass and causes the lawn to turn yellow.
2. A loose blade causes unwanted vibrations and can be dangerous.

**⚠ WARNING!** Do not use the machine if you are unsure whether it is working safely or efficiently. If in doubt, contact your authorized service provider immediately to make the necessary checks and repairs.

## **STARTING THE RIDING MOWER**


**⚠ WARNING!** This mower is equipped with a Safety Interlock System designed for the protection of the operator. Do not operate the mower if any part of the system is malfunctioning. Periodically check the function of the Safety Interlock System for proper operation.

**⚠ WARNING!** For personal safety, the operator must be sitting in the seat when starting the riding mower.


**⚠ WARNING!** Operate the machine at a temperature range between 41° and 95° F (5° - 35° C)

**⚠ IMPORTANT!** Fully charge batteries before the first time you use the mower.

### **TO START THE RIDING LAWN MOWER, FOLLOW THE STEPS BELOW:**

1. Unplug the charger and close the Charging Port Cover completely.
2. Sit in the riding mower's operator's seat.
3. Make sure that the Blades Start / Stop Knob (PTO) is in the OFF position.
4. Turn the Key Switch to the  position (Be sure that your foot is not on the either the Forward or Reverse Pedal before turning the Switch Key). Once the Key Switch is engaged the Battery Charge Level and Fault Warning (LCD) will turn on.
5. Release the Parking Brake Handle.

### **TO STOP THE RIDING LAWN MOWER, FOLLOW THE STEPS BELOW:**

1. Disengage the blades by pressing the Blade Start / Stop Knob (PTO) down.
2. Engage the Park Brake Handle.
3. Turn the Key Switch to the  position and remove the Key.

**NOTE** Always remove the key from the key switch to prevent accidental starting or battery discharge if the machine is left unattended.

## DRIVING THE RIDING MOWER

**⚠ WARNING!** Avoid sudden starts, excessive speed, and sudden stops.

**⚠ WARNING!** Never reach through the Steering Wheel to press any buttons on the front dash while the mower is in motion.

**⚠ WARNING!** When driving the mower immediately after full charge (i.e., just after removing it from the charger) the mower will operate at lower speeds and start slowly, even when the mower pedals are fully depressed. The mower will also “pulse break” when traveling downhill during this period. This rapid deceleration is designed to avoid damaging the electrical system. This is normal and will stop once the mower has been in use

**⚠ WARNING!** In case of a system fault or a complete loss of battery power, the mower can freewheel. Depress the Brake Pedal to maintain control and stop the unit. Restart the mower. If the problem persists contact PRORUN Customer Service.

1. Release the Parking Brake Handle.
2. To travel FORWARD, use your foot to slowly press down on the Forward Drive Pedal until the desired speed is achieved.
3. To travel in REVERSE, first look down and behind the mower, then use your foot to slowly press down on the Reverse Drive Pedal until the desired speed is achieved.
4. To slow down the mower slowly releases the Forward Drive or Reverse Drive Pedal. To stop the mower press down on the Brake Pedal.

### TO USE THE CRUISE CONTROL:

1. Press down on the Forward Drive Pedal.
2. While maintaining the desired speed, press the Cruise Control Button on the Right Hand Console then release the Forward Drive Pedal. The Cruise Control will now be activated.

**NOTE** Cruise Control will not engage in reverse.

3. To release the Cruise Control, press the Brake Pedal, or the Forward Drive Pedal, or the Reverse Drive Pedal, or the Cruise Control Button.

## DRIVING ON SLOPES

Refer to the Slope Gauge on page 38 to help determine slopes where you may operate the mower safely.

**⚠ WARNING!** Do not mow on inclines with a slope and in excess of 15° (a rise of approximately 2 1/2 feet every 10 feet). The mower could overturn and cause serious injury.

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**⚠ WARNING!** When driving the mower immediately after full charge (i.e., just after removing it from the charger) the mower will operate at lower speeds and start slowly, even when the mower pedals are fully depressed. The mower will also “pulse break” when traveling downhill during this period. This rapid deceleration is designed to avoid damaging the electrical system. This is normal and will stop once the mower has been in use.

## **Mow Across Slopes, Not Up and Down.**

- Exercise extreme caution when changing direction on slopes.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Do not turn on slopes unless necessary. If it is necessary to turn on a slope, turn slowly uphill and use extra care while turning. Turning on a slope greatly increases the chance of a rollover.
- Avoid stopping while driving up a slope. If it is necessary to stop while driving up a slope, start-up smoothly and carefully to reduce the possibility of flipping the mower over backwards.

## **ENGAGING / DISENGAGING THE BLADES**

### **To Engage Disengage the Blades:**

1. To engage the blades pull up on the Blade Start / Stop Knob (PTO).
2. To disengage the blades push down on the Blade Start / Stop Knob (PTO).

## **MOWING**

**⚠ WARNING!** Never reach through the Steering Wheel to press any button while the mower is in motion.

**⚠ WARNING!** To help avoid blade(s) contact or a thrown object, keep bystanders, helpers, children, and pets, at least 75 feet from the machine while it is in operation. Stop the machine if anyone enters the area.

**⚠ WARNING!** Plan your mowing pattern to avoid discharge of materials towards roads, sidewalks, bystanders, and the like. Also avoid discharging material against a wall or obstruction which may cause the discharged material to ricochet back towards the operator.

- Mow across slopes, not up and down. If mowing a slope, start at bottom and work upwards to ensure turns are made uphill.
- Do not mow at a high ground speed, especially if a mulch kit (available separately) is installed.
- Do not cut the grass too short. Short grass is prone to weed growth and yellows quickly during dry weather.
- For the best results, it is recommended that the first two laps be cut aiming the thrown discharge towards the center of the lawn. After completing the two laps, reversed the direction to throw the discharge to the outside for the balance of the cutting. This will give a better appearance to the lawn.
- Do not attempt to mow heavy brush, weeds, or extremely tall grass. Your mower is designed to mow lawns, not to clear brush.
- Keep the blade(s) sharp and replace or sharpen when worn. Dull blades will reduce battery run time.

## MOWER DECK HEIGHT SETTING AND USE

**⚠ WARNING!** Make certain that the area to be mowed is free of debris, sticks, stones, wire, or other objects that can be thrown by the rotating blades.

**NOTE** When the battery charge gets too low, the blades will automatically disengage and stop. When this situation occurs the mower should be plugged into the charger as soon as possible.

**NOTE** If the mower stops, or the blades stop, or the speed of the mower reduces, and the buzzer emits a sound (the sound typically continues for one minute), referred to the **Troubleshooting** section of this manual.

1. Adjust the Mower Deck to the desired cutting height by moving the Deck Lift Handle to the left and placing it in the notch that is best suited for your application.
2. Engage the blades by pulling up on the Blade Start / Stop Knob (PTO). Use the Low Cutting Speed Button on the Right Hand Console to select either the Blades Normal or Blades Boost speed functions, depending on the conditions.
3. On the first pass, pick a point on the opposite side of the area to be mowed and maintain a straight line towards that point.
4. Slowly press the Forward Drive Pedal forward until the desired speed is achieved and steer the mower straight towards the alignment point.

## **48V RIDING MOWER MODEL: PRM48V38**

**NOTE** The speed of the mower will affect the quality of the mowers cut. Mowing at full speed will adversely affect the cut quality. Control the ground speed with the drive pedals.

5. When approaching the other end of the strip, slow down or stop before turning.
6. Turn and align the mower along an edge of the previously mowed strip. Overlap that edge by approximately 3 inches.
7. Direct the mower on each subsequent strip to align with a previously mowed strip.
8. To prevent running or grooving of the turf, if possible, change the direction that the strips are mowed by approximately 45° for the next and subsequent mowing.

**⚠ WARNING!** Be careful when crossing gravel paths or driveways. Disengage the blades and raise the deck to the highest position before crossing.

**NOTE** When stopping the mower for any reason while on a grass surface, always engage the Parking Brake, shut off the mower, and remove the Key.

### **REVERSE MODE OPERATION (RMO)**

The Reverse Mode Operation (RMO) allows the mower to be operated in Reverse with the blades engaged.

**NOTE** Mowing in reverse is not recommended.

**⚠ WARNING!** Use extreme caution while operating the mower in the Reverse Mode Operation (RMO). Always look down and behind before and while backing. Do not operate the mower when children or others are around. Stop the mower immediately if someone enters the area.

#### **To Use the Reverse Mode Operation (RMO):**

1. Start the mower as previously instructed on page 30.
2. Press the Reverse Mode Operation Button (RMO) This button always requires pressing.
3. Always look down and behind the mower before and while backing to ensure that no children are around.

## END OF MOWING

### When You Have Finished Mowing:

1. Operate the parking brake.
2. Disengage blade rotation.
3. Lift the blade deck up as far as it will go.
4. Drive the machine to your destination.

**⚠ WARNING!** Always remove the ignition Key (15) before leaving the machine unattended! To keep the battery charged, do not leave the ignition Key (15) in the ON position when the engine is not running.

## CLEANING THE MACHINE

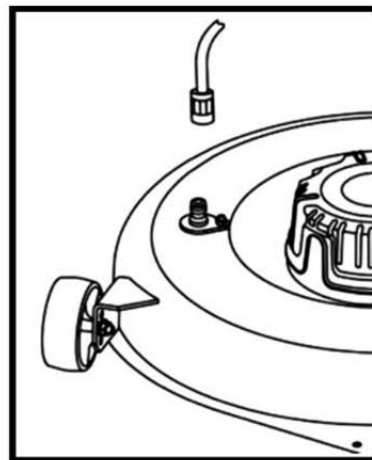
A brush, damp sponge, or rag should be used to clean the mower. Do not use high pressure nozzles or aggressive liquids to wash the casing and the motors.

**NOTE** do not spray water into the battery compartment when cleaning the mower. Doing so can cause serious damage to the mower's electrical system.

**NOTE** To clean the battery cover, the seat must be positioned all the way back and tilted up to allow access to the area under the seat.

## CLEANING THE DECK

Your mower is equipped with a water port on the top surface of its cutting deck. Attach a garden hose and use the Smart Jet System to rinse grass clippings from the deck's underside and prevent buildup of corrosive chemicals.



### Complete The Following Steps After Each Mowing:

1. Drive the mower to a level clear location on your lawn, close enough for your garden hose to reach.

**⚠ CAUTION!** While relocating your mower, make certain that the mowers discharge chute is directed away from your house, garage, parked car, etc.



## **48V RIDING MOWER MODEL: PRM48V38**

2. Stop the mower, disengage the blades, set the Parking Brake Handle, and turn the Key Switch to the OFF position.
3. Thread the hose coupler onto the end of your garden hose.
4. Attach the hose coupler to the Smart Jet System's water port located on the left top surface of the mower's cutting deck.
5. Turn the water on.
6. While sitting in the operator's position, start the mower as instructed beginning on page 30.
7. Engage the blades.
8. Remain in the operator's position with the cutting deck's blades engaged for a minimum of two minutes, allowing the underside of the cutting deck to thoroughly rinse.
9. Disengage the blades.
10. Turn the Key Switch to the OFF position to turn off the mower.
11. Turn the water off and detach the hose coupler from the Smart Jet System's water port on the cutting deck's top surface.
12. After cleaning your cutting deck with the Smart Jet System, return to the operator's position, start the mower, and engage the blades. Keep the cutting deck running for a minimum of two minutes allowing the underside of the cutting deck to thoroughly dry.

### **CUTTING SUGGESTIONS**

**⚠ CAUTION!** The machine is not suitable for heavy-duty work and for mowing large quantities of grass.

1. When adjusting the cutting height and machine speed, be careful not to overstress the machine.
2. For problem-free use, the cutting height and the movement speed must be adapted to the height of the grass to be cut.
3. On particularly rough surfaces, work with greater cutting height to prevent the blade knocking against any surface irregularities, resulting damage to the blade and mechanical parts.

### **OPERATING TIMES AND DAYS**

The time of operation of the lawnmower could be regulated by specific national or local laws. Contact the local authorities for more information.

## DRIVING AND TRANSPORT ON PUBLIC ROADS

Check the relevant road traffic regulations before driving the machine on a public road. If transporting the machine on another vehicle always use approved securing devices and make sure that the machine is securely held.

## USING ON SLOPING GROUND

**⚠ WARNING!** Only mow on slopes with gradients up to the already mentioned maximum.

Slopes are a major factor related to loss of control and tip-over accidents which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.



For your safety, use the slope gauge included as part of this manual to measure slopes before operating this machine on a sloped or hilly area. If the slope is greater than 15 degrees as shown on the slope gauge, do not operate this machine on that area or serious injury could result.

### DO:

1. Mow across slopes, not up and down. Exercise extreme caution when changing direction on slopes.
2. Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles
3. Use slow speed. Choose a low enough speed so that you will not have to stop while on the slope. If the tires are unable to maintain traction, disengage the blades and proceed slowly and carefully straight down the slope.
4. Use extreme care with any attachments. These can change the stability of the machine.
5. Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction. Rapid acceleration or deceleration could cause the front of the machine to lift and rapidly flip over backwards, which could cause serious injury.

**⚠ DANGER!**



**Risk of overturning on steep gradients.**

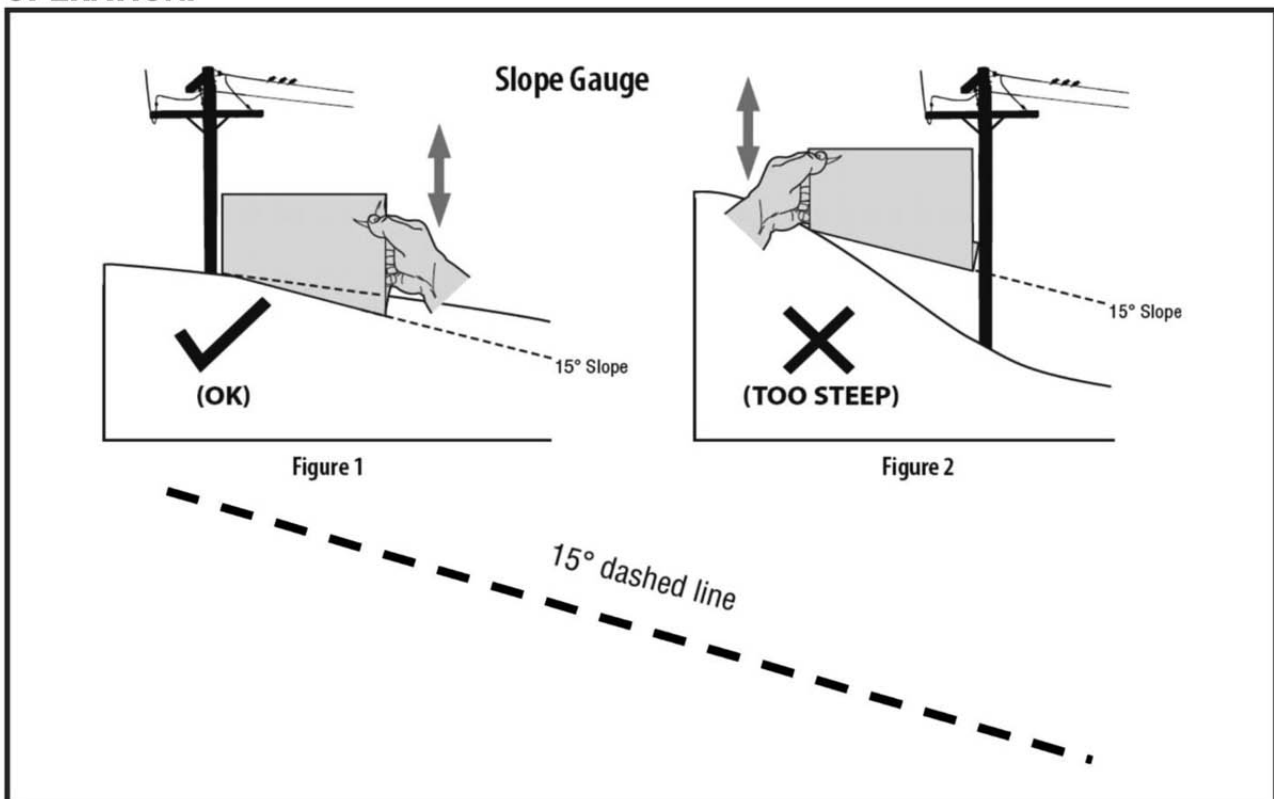
## 48V RIDING MOWER MODEL: PRM48V38

### DO NOT:

1. Do not turn on slopes unless necessary; then turn slowly up put hill and use extra care when turning.
2. Do not mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff, ditch, or if an edge caves in.
3. Do not try to stabilize the machine by putting your foot on the ground.
4. Do not operate the mower in the rain or in wet areas.
5. Do not mow on wet grass. Reduced traction could cause sliding.
6. Do not tow heavy pull behind attachments (e.g., loaded dump cart, lawn roller, etc.) on slopes greater than 5 degrees. When going downhill, the extra weight tends to push the mower and may cause you to lose control (e.g., mower may speed up, braking and steering ability or reduce, attachment made jackknife and cause more to overturn).
7. Do not turn Key off and coast downhill.

### ⚠ DANGER!

**REDUCE SPEED BEFORE ANY CHANGE OF DIRECTION ON SLOPES!  
USE THIS SLOPE GAUGE TO DETERMINE IF A SLOPE IS TOO STEEP FOR SAFE OPERATION!**



## To check the slope, proceed as follows:

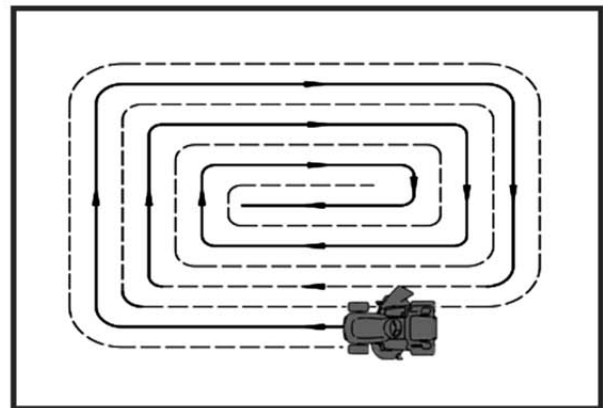
1. Remove this page and fold along the dashed line.
2. Locate a vertical object on or behind the slope (e.g., a pole, building, fence, tree, etc.)
3. Align either side of the slope gauge with the object (see Figure 1 and Figure 2).
4. Adjust gauge up or down until the left corner touches the slope (see Figure 1 and Figure 2).

If there is a gap below the gauge, the slope is too steep for safe operation (see Figure 2 above)

**⚠ WARNING!** Slopes are a major factor related to tip-over and accidents which can result injury or death. Do not operate machine on a slope in excess of  $15^\circ$ , all slopes require extra caution.

## LAWN MAINTENANCE

1. To keep a lawn green, soft, and attractive, it should be cut regularly without damaging the grass. A lawn can be composed of different types of grass. If the lawn is cut frequently, grass and roots grow more vigorously, forming a solid grassy bed. If the lawn is cut less frequently, higher grass and weeds start growing (plus daisies and clovers, etc.).
2. It is always better to cut the grass when dry.
3. The blades must be in good condition and well sharpened so that the grass is cut straight without a ragged edge that leads to yellowing at the ends.
4. The frequency of mowing should be in relation to the rate of growth of the grass. The grass should not be left to grow too much between one cut and the next.
5. During hot and dry periods, the grass should be cut a little higher to prevent the ground from drying out.



## **48V RIDING MOWER MODEL: PRM48V38**

6. The best height of the grass on a well-kept lawn is approximately 2.5 – 3.0 inches (6-7 cm). With one cut, you do not need to remove more than a third of the total height. If the grass is very tall, it should be cut twice in a twenty-four-hour period. The first time with the blades at maximum height, possibly reducing the cutting width, and the second cut at the desired height.
7. When you mow large areas, start by turning to the right so that the cut grass will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left turns until finished.
8. The appearance of the lawn will improve if you alternate cutting in both directions.
9. If the collector system tends to get blocked with grass; you should reduce the forward speed as it may be too high for the condition of the grass. If the problem persists, the probable causes are either badly sharpened blades or deformed wings.
10. Be very careful when mowing near bushes or curbs as these could distort the horizontal position of the cutting deck and damage its edge as well as the blades.

### **TRANSPORT**

**To change work areas, the machine can only cover short distances.**

- For longer distances, use a transport vehicle featuring loading ramps.
- Push the machine by hand.
- Do not lift using cables.
- Secure the machine adequately during transport.

## 8. MAINTENANCE

### MAINTENANCE SCHEDULE

Maintenance Schedule	Prior to Use	Every 10 Hours	Every 25 Hours	Every 50 Hours	Prior Off-Season Storage
Lube Front Caster Wheel and Wheel Spindle			X		X
Lube Pedal Pivots		X			X
Grease Front Castings			X		
Check Blades	X			X	
Charge Battery	X				X
Check Hardware	X				

**NOTE** The electrical components on this mower are not serviceable contact PRORUN Customer Service with questions or issues with this machine.

**⚠ WARNING!** Contact PRORUN Customer Service for replacement parts. Use only identical replacement parts. This will ensure the safety of the mower is maintained.

**⚠ WARNING!** Before performing any maintenance or repairs, stop the mower, disengage blades, set the Parking Brake Handle and remove the Key to prevent the unintended starting of the blades or any movement of the mower.

### BATTERY STORAGE

1. The batteries should be stored with a full charge. Discharged batteries can freeze when charging the batteries in cold temperatures.
2. The Battery Charger should remain connected to the Charging Port on the mower when not in use.
3. If keeping the Battery Charger connected during the off-season storage is not possible, the batteries should be fully charged once every month.
4. Storage the Batteries at 41° to 95° F (5° to 35° C).
5. The batteries may be stored for up to 6 months at 77° F (25° C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

## **48V RIDING MOWER MODEL: PRM48V38**

**NOTE** It will take approximately 10 hours to fully charge the battery. Leaving the batteries connected to the Battery Charger for more than 10 hours will not damage the batteries.

6. Batteries should not be kept in a discharged state. Permanent damage to the batteries can occur.
7. Fully charged batteries once a month during offseason storage.
8. Fully recharged the batteries before returning to service.

### **CHARGING THE BATTERIES**

**⚠ WARNING!** Battery post terminals and related accessories contain lead and lead compounds, chemicals known to cause cancer and reproductive harm. Wash hands after handling.

**⚠ WARNING!** The battery contains corrosive fluid and toxic materials, handle them with care, keep them away from children, do not puncture, disassemble, mutilate, or incinerate them. Explosive gases could be vented during charging or discharging. Use in a well-ventilated area, away from sources of ignition.

**⚠ WARNING!** Recharge only with the Battery Charger specified by the manufacturer. A Battery Charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

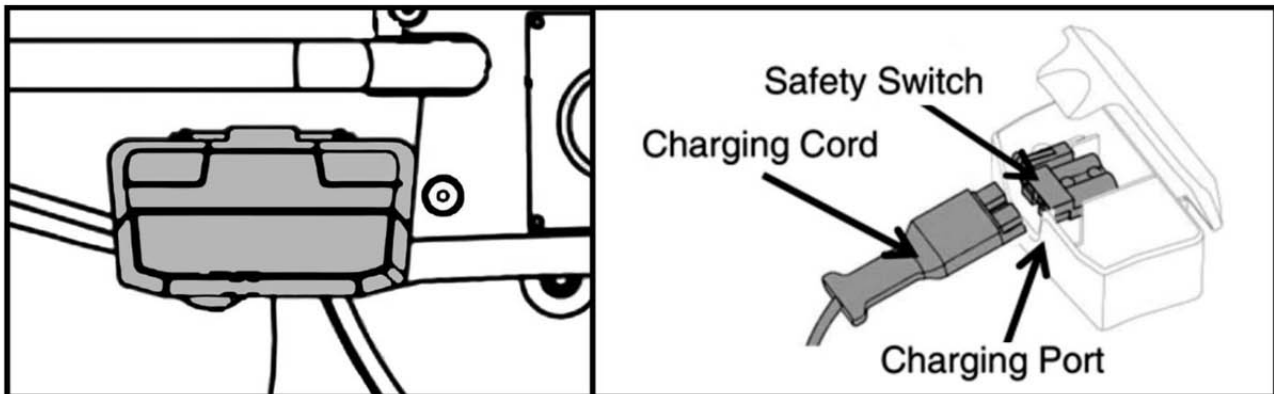
**⚠ WARNING!** Do not charge or operate the mower in the rain or in wet conditions.

**NOTE** The batteries in your mower are not expected to last for the life of your mower. Rechargeable batteries degrade with time and use. The batteries may eventually need to be replaced. Contact PRORUN Customer Service for replacement batteries.

**NOTE** Replace batteries if the battery's capacity drops below 50% of the initial capacity.

**NOTE** Using old or faulty batteries could cause a system fault that results in loss of power.

Refer to the manual packed with your Battery Charger for information and instructions on charging the batteries. Lift the Charging Port Cover up and insert the Charging Cord into the Charging Port receptacle located within.



**⚠ WARNING!** The Safety Switch located on the left side of the Charging Port is a part of the Safety Interlock System. The power of the mower will disengage with opening of the Charging Port Cover.

#### **CHARGER MODEL WT4808PNG/ WT4808PMG:**

- INPUT: 100-240V, 50/60Hz, Max. 4.5A / OUTPUT: 48Vd.c 8A
- The batteries must only be charged in an area protected against poor weather conditions in the shade at a recommended temperature of between 32° to 95° F (0° to 35° C).
- The batteries are equipped with a protection device that inhibits recharging if the environmental temperature is not between 32° to 113° F (0° to 45° C).

#### **BATTERY CHARGING TIPS**

- Use only the Battery Charger provided with this mower.
- The batteries should be fully charged before each use.
- It is recommended that the mower batteries are charged once every month during off-season storage.
- It will take approximately 10 hours to fully charge the batteries
- Leaving the batteries connected to the Battery Charger for more than 10 hours will not damage the batteries.
- The batteries do not develop a memory and do not need to be fully discharged before recharging.
- Always disconnect the Battery Charger (or extension cord, if used) from the electrical outlet first, then disconnect the Charging Cord from the Charging Port.
- It is recommended that the mower be charged after every use. Storing batteries in a discharge state could reduce future performance.



# **48V RIDING MOWER MODEL: PRM48V38**

## **RIDING MOWER STORAGE**

**NOTE** Store the mower indoors, in a dry place, and out of the reach of children.

If your mower is not going to be operated for an extended period of time (30 days to approximately 6 months) the mower should be prepared for storage. Store the mower in a dry and protected location. If stored outside, cover the mower completely to protect it from the elements.

**The Procedures Outlined Below Should Be Performed Whenever the Mower Is Placed in Offseason Storage:**

1. Clean the entire mower thoroughly
2. Fully charged the batteries and recharge the batteries every 30 days when in storage.
3. Lubricate all lubrication points

**NOTE** Use of a pressure washer or garden hose is not recommended to clean your mower. This may cause damage to the electrical components and bearings. The use of excessive water will result in shortened life and reduced serviceability.

## **REMOVING THE RIDING MOWER FROM STORAGE**

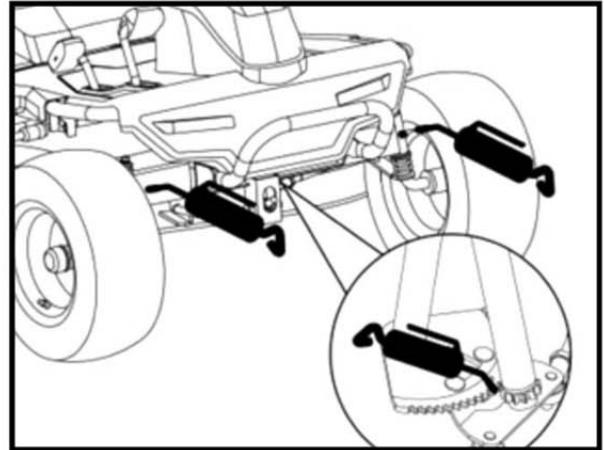
1. Fully charge the batteries and inflate the tires to the recommended pressures.
2. Drive the mower without a load to make certain all the mower systems are functioning properly.

## LUBRICATION

**⚠ WARNING!** Before lubricating, repairing, or inspecting, always stop the mower, disengage the blades, set the Parking Brake Handle, and remove the Switch Key to prevent unintended starting.

### FRONT WHEELS

Each of the Front Wheel Spindles are equipped with a grease fitting. Lubricate with a No. 2 multi-purpose grease applied with a grease gun after every 24 hours of mowing operations.



### STEERING GEAR

Steering Gear and Steering Gear Plate fray easily. Lubricate with a No. 2 multi-purpose grease applied with a grease gun after every 24 hours of mowing operations.

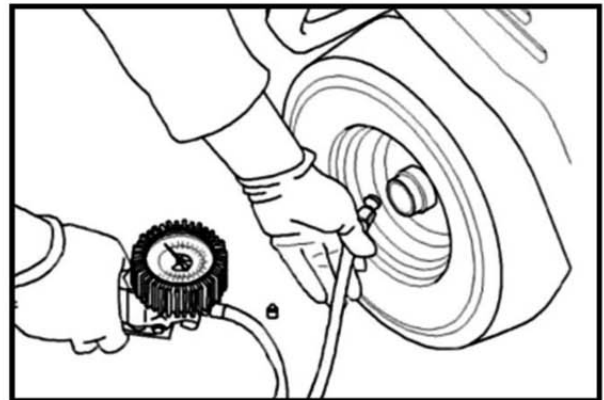
### TIRES

Refer to the tire sidewall for the exact tire manufacturer's recommended or maximum PSI. Do not over inflate. Uneven tire pressures could cause the cutting deck to move unevenly.

The pressures are:

FRONT: 17.4 PSI / 1.2 bar (15 x 6.0-6)

REAR: 14.5 PSI / 1.0 bar (16 x 6.5-8)



**⚠ WARNING!** Never exceed the maximum inflation pressure shown on the sidewall of the tire.

## ADJUSTMENTS

**⚠ WARNING!** Shut the mower off, remove the Switch Key, and engage the Parking Brake Handle before making any adjustments. Protect your hands by using heavy gloves when handling the blade(s).

# 48V RIDING MOWER MODEL: PRM48V38

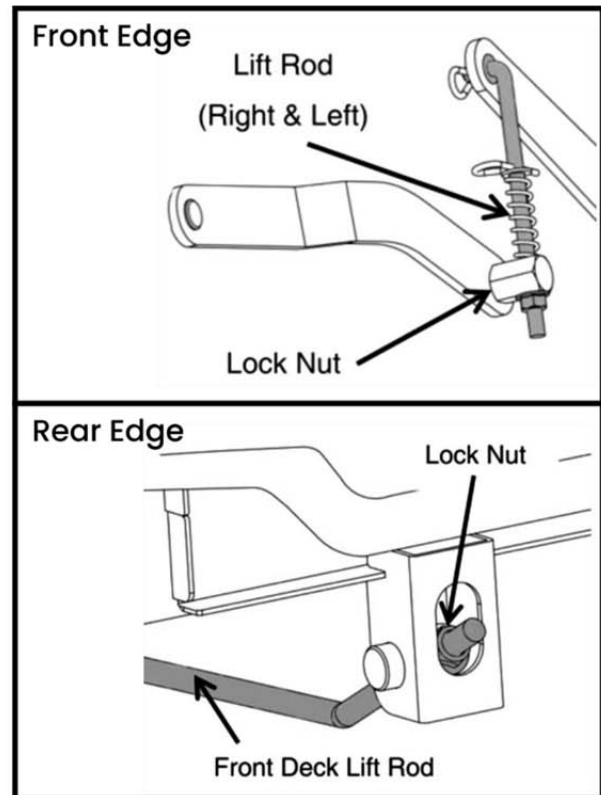
## LEVELING THE DECK (SIDE TO SIDE)

**NOTE** Check the mower's tire pressure before performing any deck leveling adjustments.

If the cutting deck appears to be moving unevenly, a side-by-side adjustment can be performed.

If Necessary, Adjust as Follows:

1. Place the machine on a flat ground and check the tire pressure.
2. Put blocks under the Front edge of the Cutting Deck that are 1 and 1/8-inch (26 mm) tall.
3. Put blocks under the Rear edge of the Cutting Deck that are 1 and 1/4-inch (31 mm) tall.
4. Adjust the Lock Nuts (Right and Left) to keep the deck in touch with the 1 and 1/8 inch (26 mm) tall blocks under the Front Edge (Figure Front Edge).
5. Adjust the Lock Nuts to keep the deck in touch with the 1 and 1/4 inch (31 mm) tall blocks under the Rear edge (Figure Rear Edge).



**NOTE** Clockwise to raise counterclockwise to lower the cutting deck.

## ADJUSTING THE DECK WHEELS

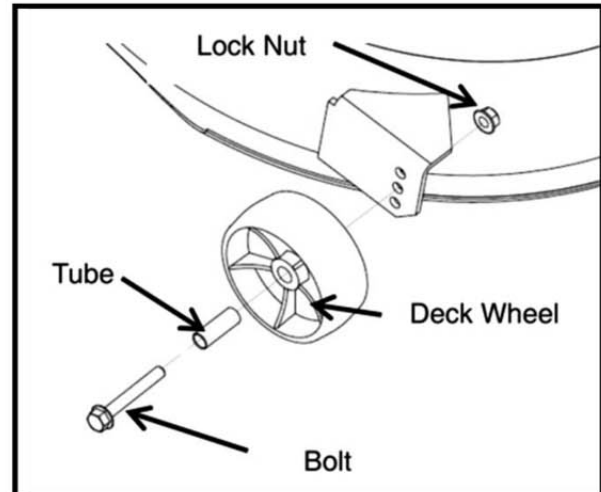
Move The Mower onto a Firm and Level Surface, Preferably Pavement, And Proceed as Follows:

1. Place the Deck Lift Handle to the desired mowing height setting.
2. Check the Deck Wheels for contact or excessive clearance with the surface below.

**NOTE** The Deck Wheels should have been 1/4-inch to 1/2-inch of clearance above the ground.

## If The Deck Wheels Have Excessive Clearance or Contact with The Surface, Adjust as Follows:

1. Raise the Deck Lift Handle to its highest setting.
2. Remove the Front and Rear Deck Wheels by removing the Lock Nuts, Tubes, and Bolts.
3. Place the Deck Lift Handle into the desired mowing height setting.
4. Reinsert the Bolts (with each Deck Wheel) into the index hole that leaves approximately  $\frac{1}{4}$ -inch to  $\frac{1}{2}$ -inch between the bottom of the Deck Wheel and the pavement service.



## PARKING BRAKE ADJUSTMENT

If the mower does not come to a complete stop when the Brake Pedal is completely engaged, or if the mower's rear wheels can roll with the Parking Brake Handle applied, the Brake is in need of adjustments. Contact PRORUN Customer Service with questions or issues with this machine.

## SERVICE

**⚠ WARNING!** Contact PRORUN Customer Service for replacement parts. Use only identical replacement parts. This will ensure that the safety of the mower is maintained.

**NOTE** The electrical components of this mower are not user serviceable. Contact PRORUN Customer Service with questions or issues with this machine .

## BLADE CARE

**⚠ WARNING!** When removing the cutting blade(s) for sharpening or replacement, protect your hands with a pair of heavy gloves or use a heavy rag to hold the blade(s).

**⚠ WARNING!** After striking a foreign object, stop the mower. Thoroughly inspect the machine for any damage. Repair the damage before starting and operating.

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Periodically inspect the blade adapter(s) for cracks, especially if you strike a foreign object. Replace them when necessary.

Follow The Steps Below for Blades Service:

1. The Cutting Deck on the mower should not be removed. To access the Blade(s), the mower can be placed on a lift, driven on ramps, or placed on jack stands.

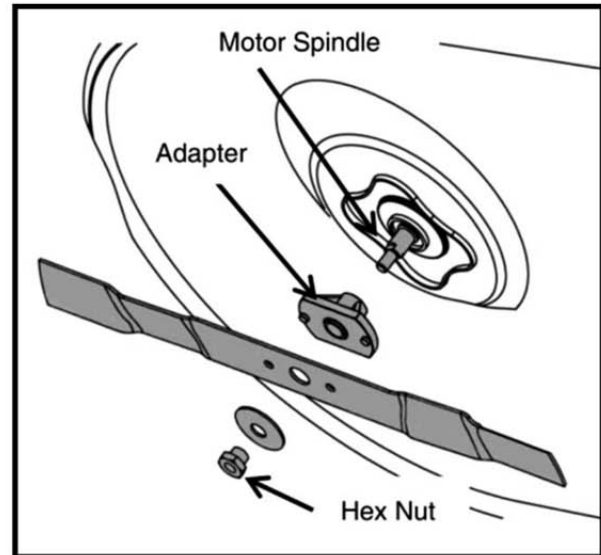
**⚠ WARNING!** Be sure the mower is secure, and the Parking Brake Handle is set when removing the Blade(s).

2. Remove the Hex Nut and the Elastic Saucer which holds the Blade and the Blade Adapter to the Cutting Deck Motor.
3. Remove Blade and Blade Adapter from the Cutting Deck Motor's spindle.
4. Balance the Blade on a screwdriver's round shaft handle to check its balance. Remove metal from the heaviest side until it balances evenly. When sharpening the Blade, follow the original angle of the Blade and its cutting edge. Grind or file each cutting edge equally to keep the Blade balanced.

**⚠ WARNING!** An unbalanced blade will cause excessive vibration when rotating at high speeds. It may cause damage to the motor or the mounting hardware which could cause personal injury.

5. Visually inspect the Blade Adapter for any damage or cracks.
6. Lubricate the inner surface of the Blade Adapter with a light oil.
7. Slide the Blade Adapter onto the Deck Motor's Spindle. Place the Blade on the Blade Adapter so that the side of the Blade marked BOTTOM or with the PART NUMBER faces the ground. When the mower is in the operating position, make sure that the Blade is aligned and seated on the Blade Adapters Flanges.
8. Place the Elastic Saucer Washer onto the Blade. Replace the Hex Nut and tighten to a torque of 48 Nm minimum, 52 Nm maximum.

**⚠ IMPORTANT!** To ensure safe operation of your mower, periodically check the blade nut(s) for correct torque.



## 9. TROUBLESHOOTING

<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>REMEDY</b>
<b>Excessive Vibration.</b>	<ol style="list-style-type: none"><li>1. Damaged or bent cutting blade.</li><li>2. Cutting blade loose or unbalanced.</li></ol>	<ol style="list-style-type: none"><li>1. Replace blade.</li><li>2. Tighten blade or remove and balance.</li></ol>
<b>Uneven Cut.</b>	<ol style="list-style-type: none"><li>1. Uneven tire pressure.</li><li>2. Cutting deck not leveled properly.</li><li>3. Dull blade(s).</li></ol>	<ol style="list-style-type: none"><li>1. Check the tire pressure on all four tires.</li><li>2. Perform side-to-side cutting deck adjustment.</li><li>3. Sharpen or replace blade(s).</li></ol>
<b>Mower Will Not Mulch Grass (if equipped with Mulching Kit).</b>	<ol style="list-style-type: none"><li>1. Blade speed too low.</li><li>2. Excessively high grass.</li><li>3. Wet grass.</li><li>4. Dull blade(s).</li></ol>	<ol style="list-style-type: none"><li>1. Turn Blade Boost ON.</li><li>2. Mow once at a high cutting height, then mow again at desired height, or make a narrower cutting swath.</li><li>3. Do not mulch when grass is wet.</li><li>4. Sharpen or replace blade(s).</li></ol>

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<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>REMEDY</b>
<p><b>Mower stopped or will not start.</b></p>	<ol style="list-style-type: none"> <li>1. Reset.</li> <li>2. Hub fault.</li> <li>3. Operator Presence Switch fault.</li> <li>4. Over-voltage.</li> <li>5. Pre-charge failure.</li> <li>6. Hub communication failure.</li> <li>7. Left cutting deck communication failure.</li> <li>8. Right cutting deck communication failure.</li> <li>9. Contactor tips welded closed.</li> <li>10. Self-test failure.</li> <li>11. Operator Presence Switch Contactor tip failure.</li> <li>12. Battery charger plugged in.</li> </ol>	<ol style="list-style-type: none"> <li>1. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>2. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>3. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>4. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>5. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>6. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>7. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>8. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>9. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>10. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>11. Check to see if Operator Presence Switch is plugged in. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>12. Unplug charger and return to the start-up prompt.</li> </ol>

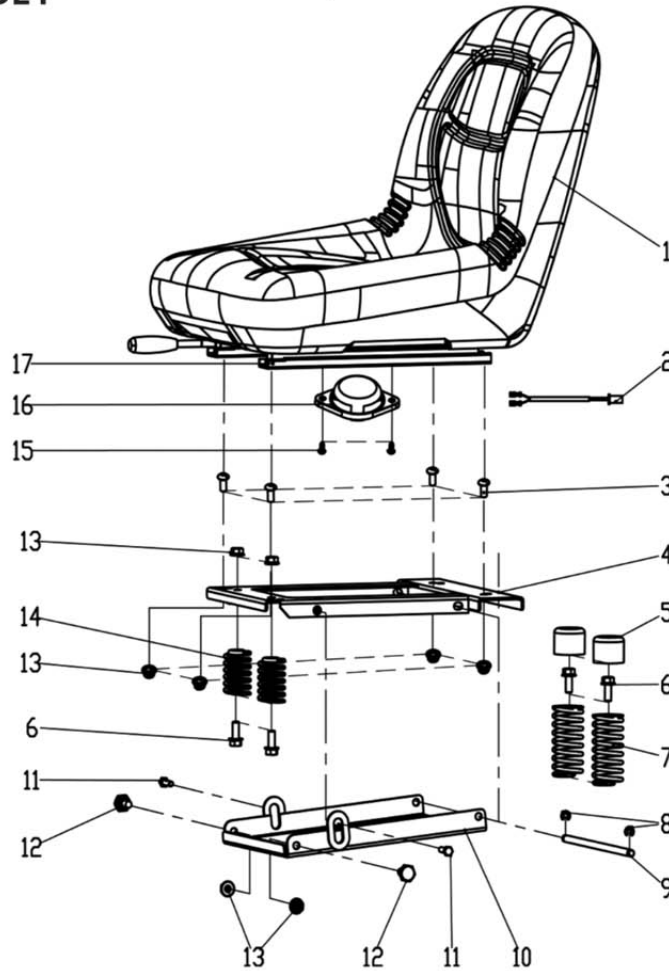
<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>REMEDY</b>
<b>The blades do not rotate, or the blades stopped.</b>	<ol style="list-style-type: none"> <li>1. Left cutting deck communication failure.</li> <li>2. Right cutting deck communication failure.</li> <li>3. Overload.</li> <li>4. Low battery.</li> <li>5. Break sensor fault.</li> </ol>	<ol style="list-style-type: none"> <li>1. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>2. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>3. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>4. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> <li>5. Shut off and restart mower. If the problem persists contact PRORUN Customer Service.</li> </ol>
<b>The blades do not rotate in reverse.</b>	Blades stop.	Always press the Reverse Operation Mode Button (ROM).
<b>Reduced speed.</b>	<ol style="list-style-type: none"> <li>1. Low battery.</li> <li>2. Overload.</li> </ol>	<ol style="list-style-type: none"> <li>1. Charge the battery as instructed in the Battery Charger manual.</li> <li>2. Raise cutting deck.</li> </ol>



# 48V RIDING MOWER MODEL: PRM48V38

## 10. EXPLODED VIEWS AND PARTS LISTS

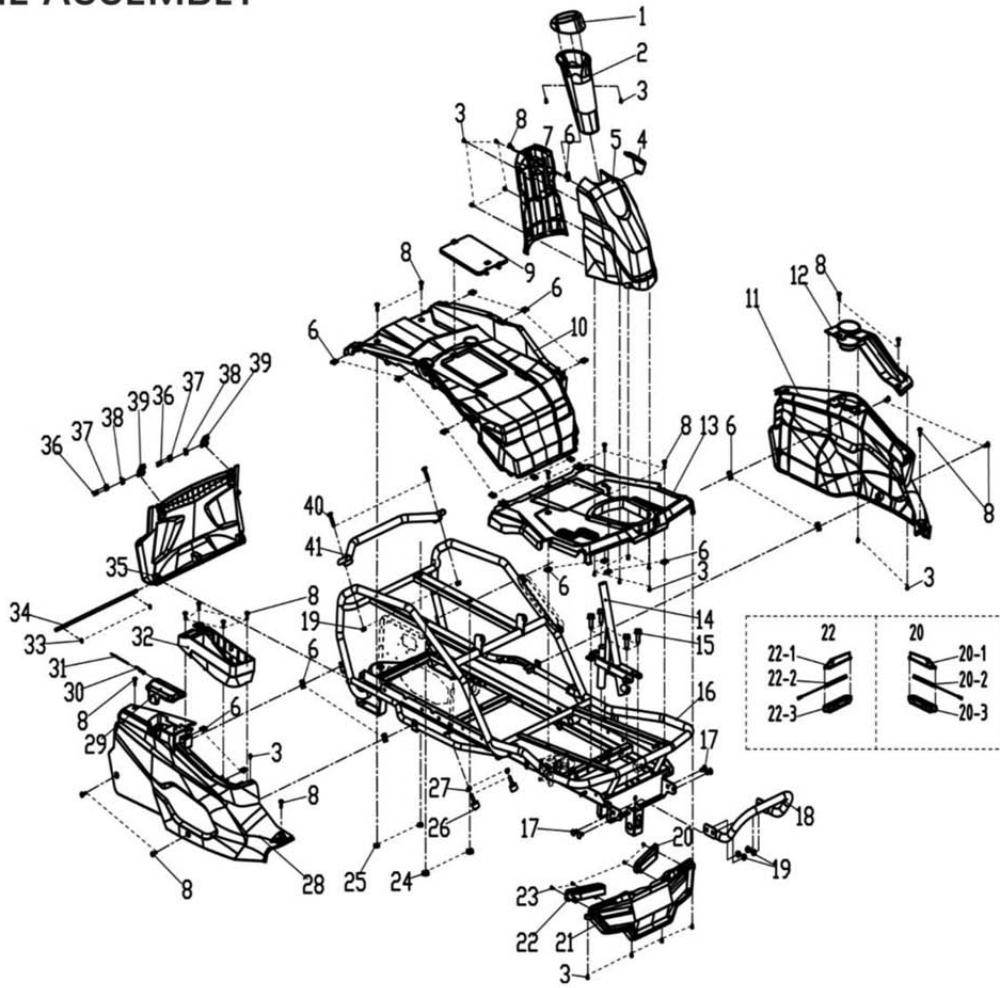
### SEAT ASSEMBLY



NO	PART NAME	QTY
1	SEAT ASSEMBLY	1
2	SEAT SWITCH CABLE	1
3	SCREW M8 X 16	4
4	SEAT MOUNT PLATE ASSEMBLY	1
5	SPRING CAP	4
6	HEX FLANGE BOLT M18 X 20	4
7	COMPRESS SPRING 30 X 84 X 4.5	2
8	SNAP RING 6	2
9	LONG PIN	1

NO	PART NAME	QTY
10	SEAT MOUNT BRACKET ASSEMBLY	1
11	SHOULDER SCREW	2
12	SHOULDER SCREW	2
13	HEX FLANGE LOCK NUT M8	8
14	COMPRESS SPRING 30 X 53 X 4.5	2
15	M6 X 14, GB9074.4	2
16	SEAT SWITCH ASSEMBLY	1
17	SEAT SLIDE ASSEMBLY	1

## FRAME ASSEMBLY

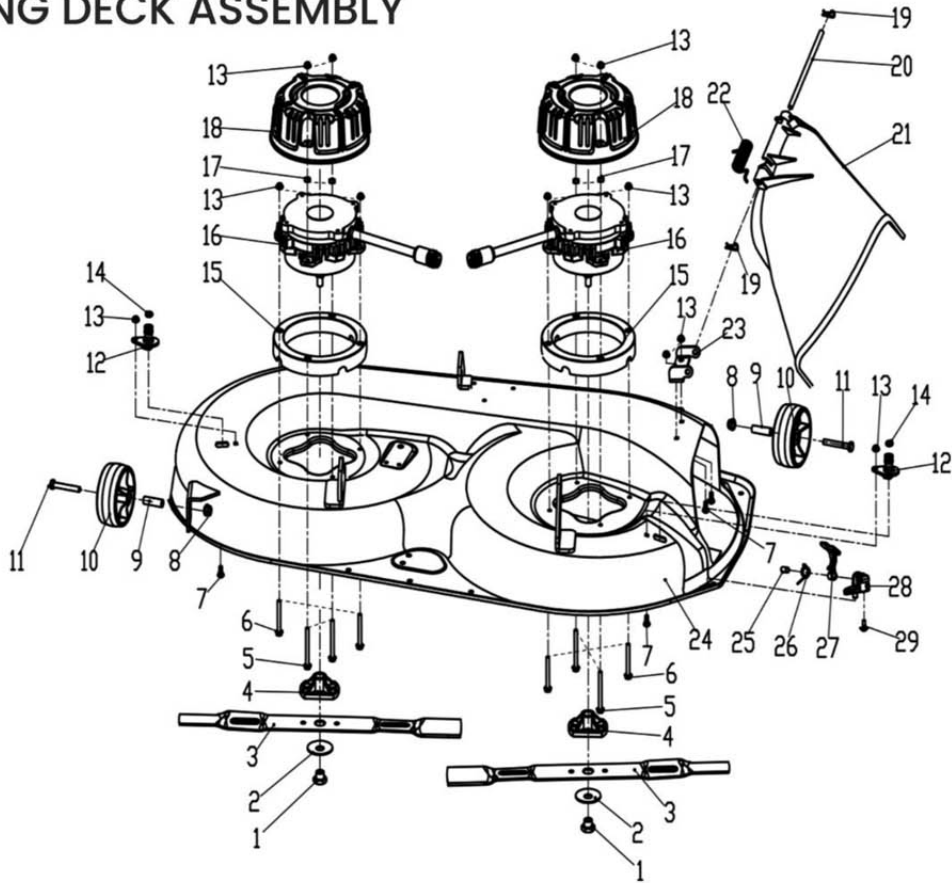


NO	PART NAME	QTY	NO	PART NAME	QTY
1	ROUNDNESS COVER	1	6	BUCKLE NUT M6	20
2	CAP	1	7	COVER AFTER STEERING SHAFT	1
3	SCREW ST4.8 X 19	18	8	HEX SOCKET SCREW M6 - 25	19
4	INLAID CAP	1	9	SQUARE OVER	1
5	FRONT COLUMN COVER	1	10	REAR BASE	1

## **48V RIDING MOWER MODEL: PRM48V38**

<b>NO</b>	<b>PART NAME</b>	<b>QTY</b>	<b>NO</b>	<b>PART NAME</b>	<b>QTY</b>
11	LEFT COVER	1	24	NUT M8	2
12	HEIGHT INDEX BRACKET COVER	1	25	NUT M8	2
13	FOOT BOARD	1	26	CUSHIONED COLUMN XC62	2
14	STEERING BRACKET WELDS	1	27	HEX NUT M8	2
15	HEX BOLT	4	28	RIGHT COVER	1
16	FRAME ASSEMBLE	1	29	CHARGING PORT COVER	1
17	STEP BOLT M8 X 25	4	30	TORSION SPRING	1
18	BUMPER	1	31	PIN, CHARGING PORT COVER	1
19	HEX FLANGE LOCK NUT M8	6	32	SWITCH MODE MOUNT	1
20	LEFT LIGHT ASSEMBLY	1	33	OPEN RETAIN RING 6	2
20-1	LEFT LAMPSHADE	1	34	LONG PIN, REAR COVER	1
20-2	STRIP LIGHT ASSEMBLY	1	35	REAR COVER	1
20-3	LEFT LAMP HOLDER	1	36	PIN 3X23	4
21	FRONT FACE	1	37	TRANSFER BAR	2
22	RIGHT LAMP ASSEMBLY	1	38	HOOK	2
22-1	RIGHT LAMPSHADE	1	39	LOCK LEVER	2
22-2	STRIP LIGHT ASSEMBLY	1	40	STEP BOLT M8 X 40	2
22-3	RIGHT LIGHT SEAT	1	41	REAR HANDLE	1
23	SELF-TAPPING SCREW ST4.2 X 16	4			

**CUTTING DECK ASSEMBLY**



NO	PART NAME	QTY
1	SHOULDER NUT	2
2	SAUCER WASHER	2
3	BLADE	2
4	BLADE ADAPTER	2
5	HEX FLANGE BOLT M6 X 65	4
6	HEX FLANGE BOLT M6 X 50	4
7	STEP BOLT M6 X 16	4
8	HEX FLANGE LOCK NUT M8	2
9	BALL WHEEL AXLE	2
10	DECK BALL WHEEL	2

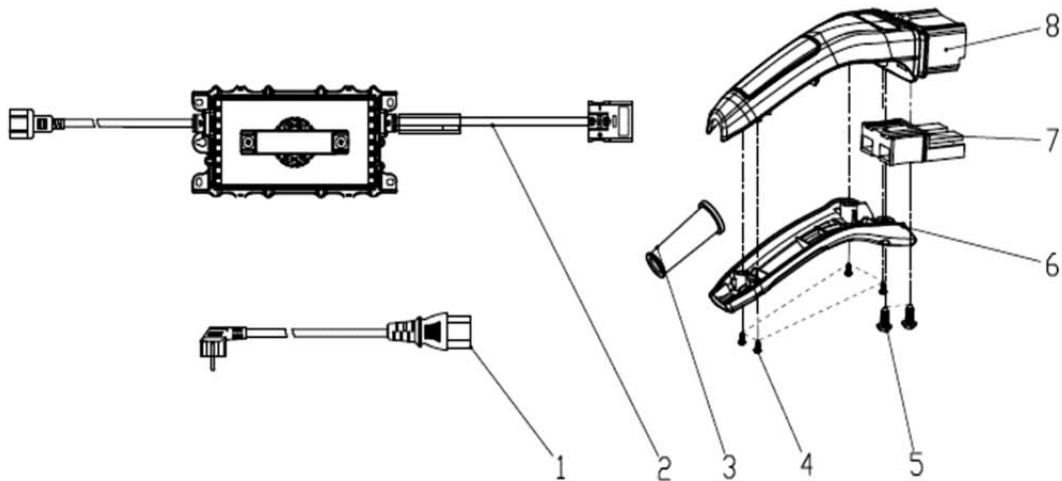
NO	PART NAME	QTY
11	HEX FLANGE BOLT M8 X 60	4
12	DECK WASH NOZZLE	2
13	HEX FLANGE LOCK NUT M6	12
14	O SEALING RING 11.2 X 2.65	2
15	MOTOR MOUNT	2
16	MOTOR HM-12801BL	2
17	HEX NUT M6	4
18	MOTOR COVER	2
19	BOW-TIE COTTER PIN 2	2
20	HINGE PIN	1

## **48V RIDING MOWER MODEL: PRM48V38**

NO	PART NAME	QTY
21	DISCHARGE CHUTE	1
22	TORSION SPRING	1
23	CHUTE BRACKET	1
24	DECK ASSEMBLE 38 IN	1
25	TTTM865	1

NO	PART NAME	QTY
26	TTTM865	1
27	SELF-LOCKING SNAP-ON TTM86S	1
28	SELF-LOCKING SNAP-ON TTM86S	1
29	SELF TAPPING SCREW ST4.8 X 13	1

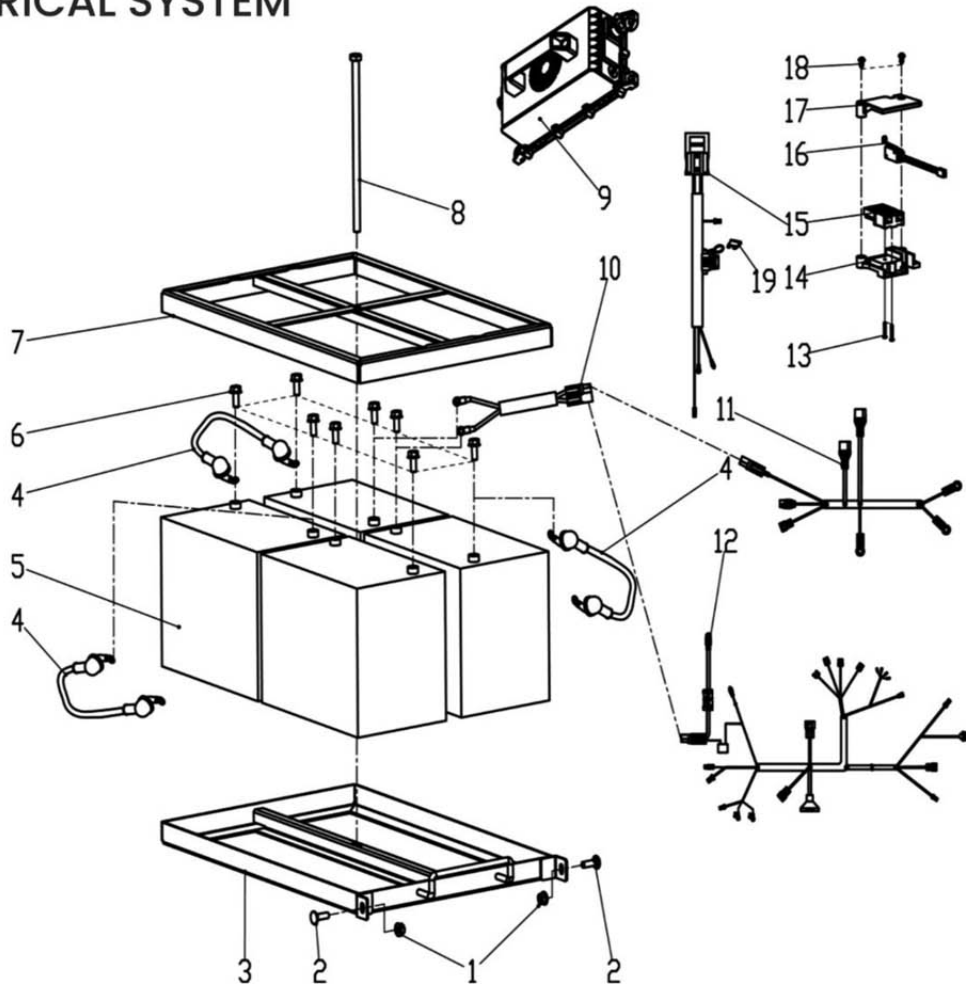
### CHARGER ASSEMBLY



NO	PART NAME	QTY
1	POWER CORD 1.2M	1
2	CHARGER: 100-240V / 48V 8A	1
3	POWER CORD SHEATH	1
4	SCREW ST2.9 X 13	4

NO	PART NAME	QTY
5	SELF-TAPPING SCREW ST4.2 X 16	2
6	CHARGING GUN COVER	1
7	CHARGER CONNECTOR BRM148S SES	1
8	CHARGER GUN HOLDER BRM 148S	1

## ELECTRICAL SYSTEM

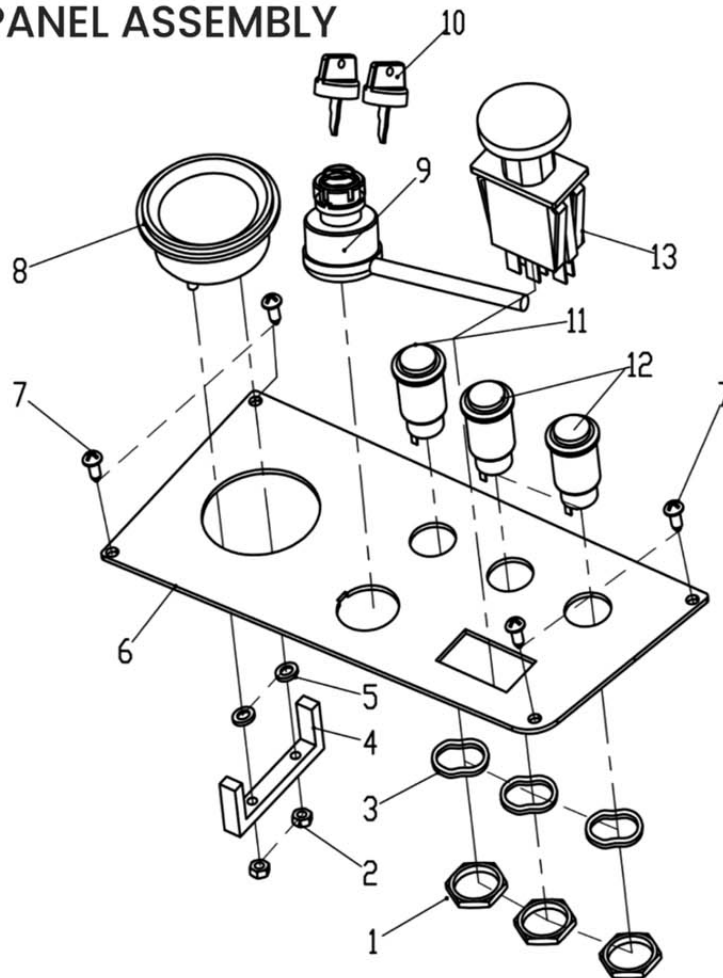


NO	PART NAME	QTY
1	HEX FLANGE LOCK NUT M8	2
2	STEP BOLT M8 X 25	2
3	BATTERY TRAY	1
4	BATTERY CABLE	3
5	LEAD ACID BATTERY 12V	4
6	HEX FLANGE BOLT M6 X 16	8
7	BATTERY CLAMP	1
8	BATTERY HLD BOLT M10X 1.25 X 230	1
9	BATTERY CHARGER	1
10	BATTTERY CHARGER CABLE	1

NO	PART NAME	QTY
11	BATTERY CABLE 48V	1
12	CONTROL CABLE	1
13	SELF TAPPING SCREW ST4.2 X 16	2
14	CHARGING BAY MOUNT	1
15	CHARGER INTERFACE HARNESS	1
16	ALARM SWITCH ASSEMBLY	1
17	SHIELD	1
18	ST4.8 X 35	2
19	FUSE 20A	1

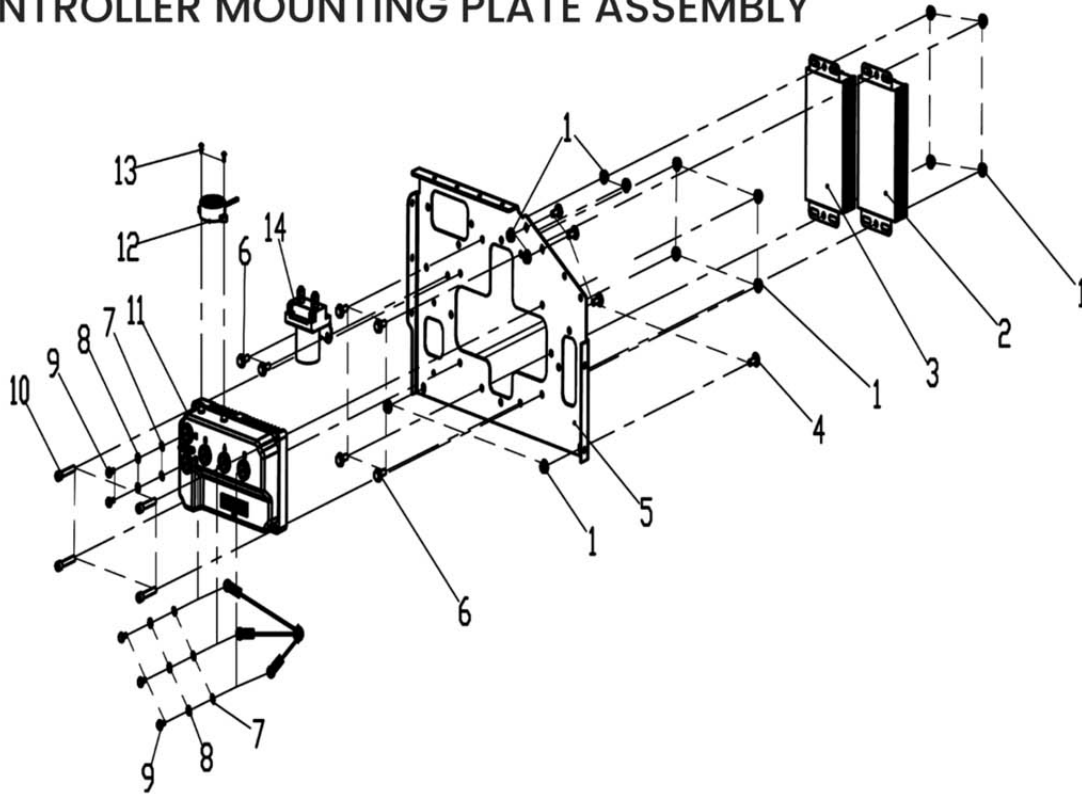
# 48V RIDING MOWER MODEL: PRM48V38

## CONTROL PANEL ASSEMBLY



NO	PART NAME	QTY	NO	PART NAME	QTY
1	HEX THIN NUT M19 X 1	3	8	VOLTMETER	1
2	HEX NUT M4	2	9	KEY SWITCH	1
3	WAVE WASHER 20	3	10	ELECTRIC DOOR LOCK KEY	2
4	VOLTMETER BRACKET	1	11	BUTTON SWITCH (LED)	1
5	FLAT WASHER 6	2	12	BUTTON SWITCH	2
6	PLATE	1	13	PTO SWITCH	1
7	SELF TAPPING SCREW ST3.5 X 13	5			

**CONTROLLER MOUNTING PLATE ASSEMBLY**

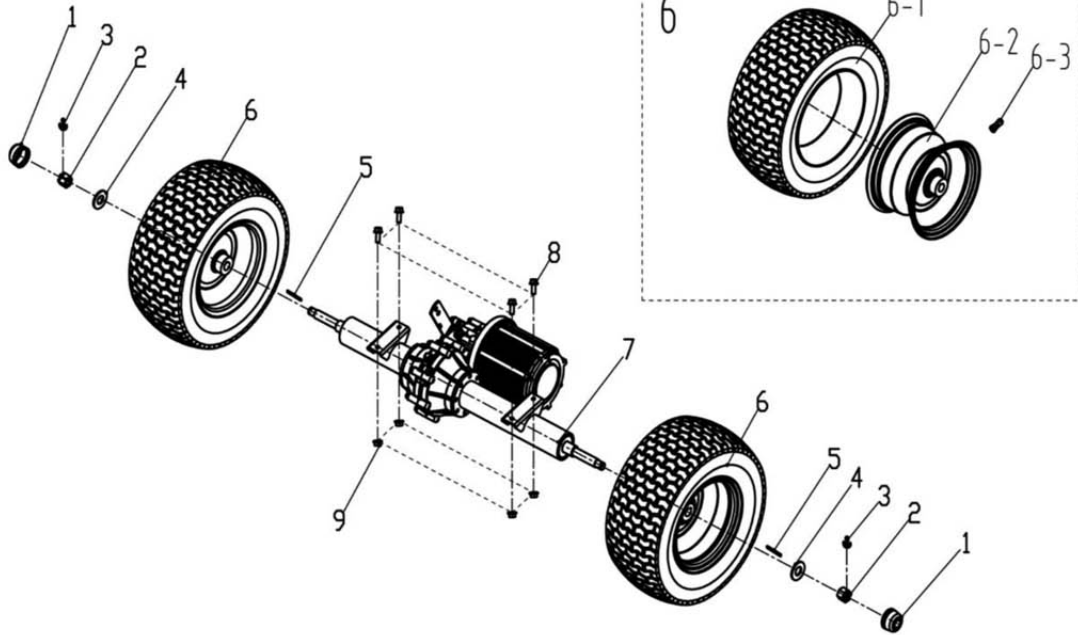


NO	PART NAME	QTY	NO	PART NAME	QTY
1	HEX FLANGE LOCK NUT M6	14	8	SPRING WASHER 5	5
2	BLADE CONTROL MODULE 08B	1	9	HEX BOLT M5 X 12	5
3	BLADE CONTROL MODULE 07B	1	10	ALLEN SCREW M6 X 35	4
4	HEX FLANGE BOLT M6 X 16	4	11	HOST CONTROLLER YPK1006	1
5	CONTROLLER MOUNTING PLATE	1	12	BUZZER BZM160S 3-24V	1
6	HEX FLANGE BOLT M6 X 16	6	13	SCREW ST2.9X8	2
7	FLAT WASHER 5	5	14	CONTACTOR 48V 150A	1



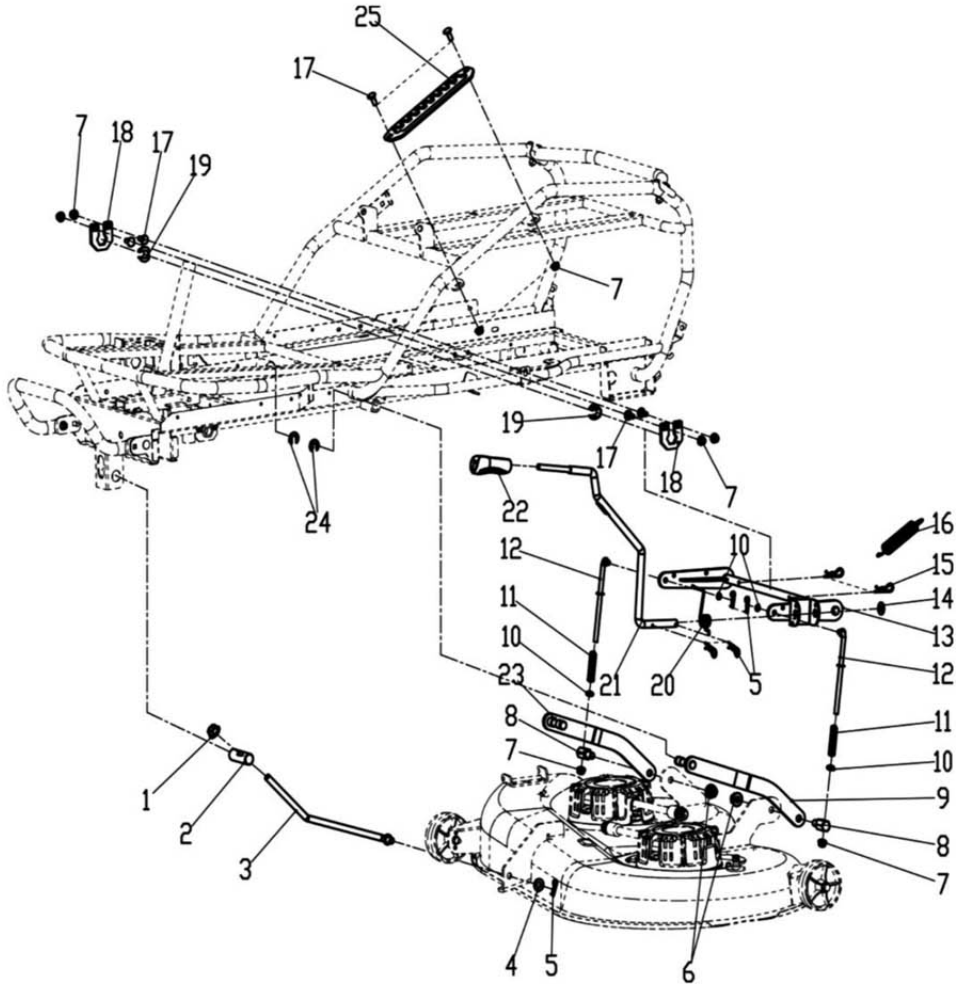
# 48V RIDING MOWER MODEL: PRM48V38

## TRANSMISSION SYSTEM



NO	PART NAME	QTY	NO	PART NAME	QTY
1	HUB COVER	2	6-1	COMPLETE WHEEL 16 X 6.5-8	2
2	HEX SLOTTED NUT M16 X 1.5	2	6-2	RIM ONLY 6.5-8	2
3	COTTER PIN 3.2 X 25	2	6-3	VALUE TUBELESS	2
4	WASHER 17 X 44 X 2	2	7	REAR AXIL ASSEMBLY	1
5	KEY 4.75 X 4.75 X 60	2	8	HEX FLANGE BOLT M8 X 20	4
6	COMPLETE WHEEL 16 X 6.5-8	2	9	HEX FLANGE NUT M8	4

**DECK LIFT SYSTEM - MANUAL**



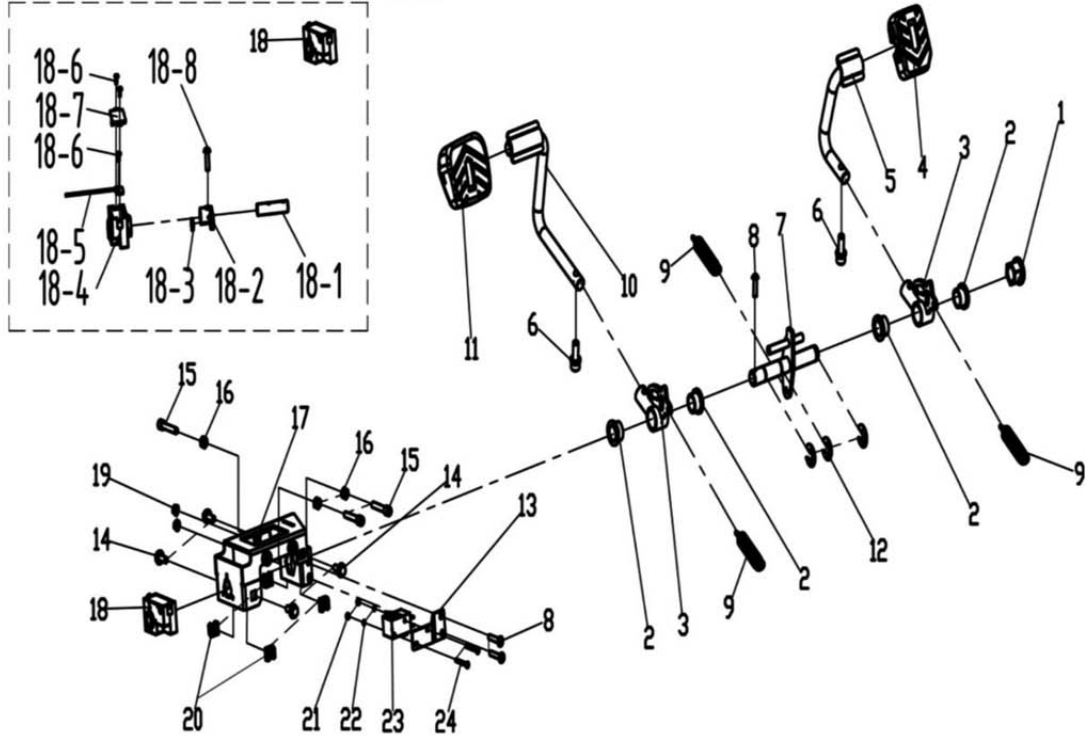
NO	PART NAME	QTY	NO	PART NAME	QTY
1	HEX LOCK NUT M12 X 1.25	1	6	HEX NUT M10 X 1.25	2
2	DECK LIFT PIVOT (FRONT)	1	7	HEX FLANGE LOCK NUT M8	8
3	DECK LIFT ROD (FRONT)	1	8	DECK LIFT PIVOT (REAR)	2
4	WASHER 12	1	9	DECK LIFT ARM ASSEMBLE LH	1
5	BOW-TIE COTTER PIN 2	5	10	WASHER 8	4

## **48V RIDING MOWER MODEL: PRM48V38**

<b>NO</b>	<b>PART NAME</b>	<b>QTY</b>
11	COMPRESS SPRING 12 X 62 X 2	2
12	DECK LIFT ROD (REAR)	2
13	DECK LIFT SHIFT ASSEMBLE	1
14	WASHER 14	1
15	BOW-TIE COTTER PIN 3	2
16	EXTENSION SPRING	1
17	STEP BOLT M8 X 25	6
18	SUSPENSION MOUNT	2

<b>NO</b>	<b>PART NAME</b>	<b>QTY</b>
19	HEX SNAP BUSH	2
20	TORSION SPRING	1
21	LIFT ROD	1
22	GRIP	1
23	DECK LIFT ARM ASSEMBLE RH	1
24	SNAP RING 12	2
25	DECK HEIGHT INDEX BRACKET	1

## DRIVE CONTROL SYSTEM

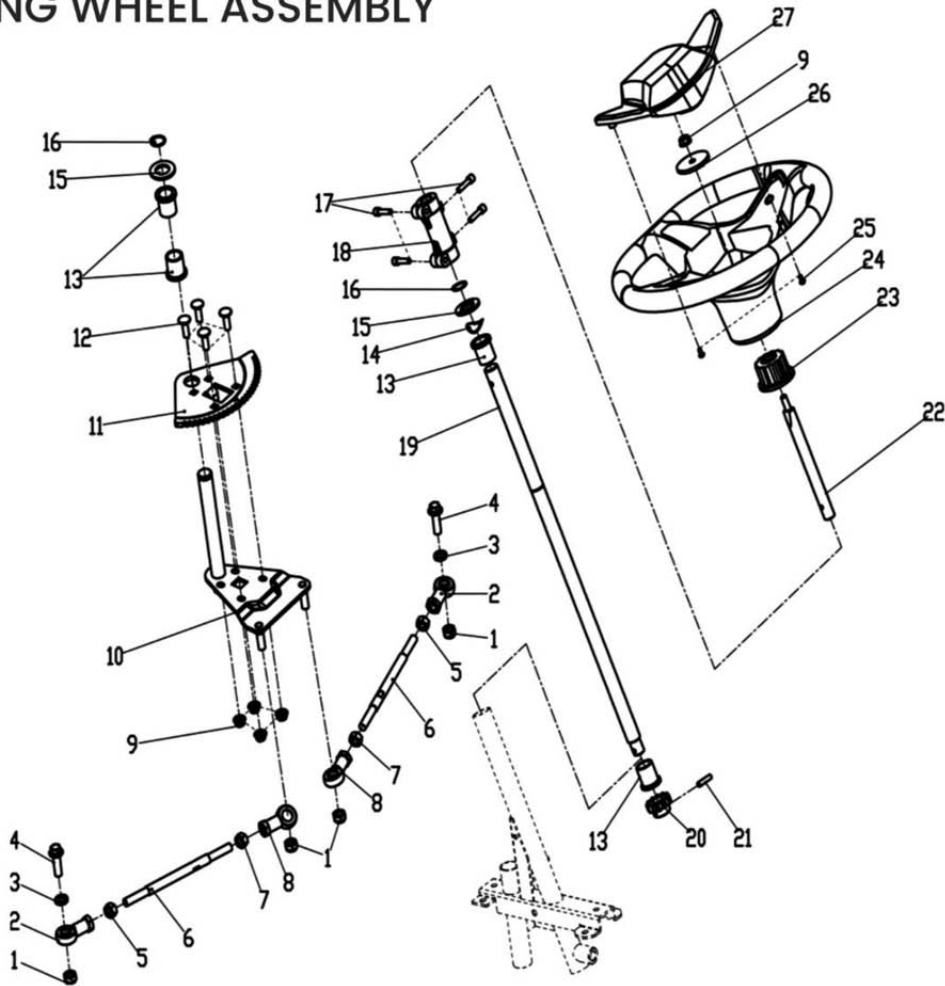


NO	PART NAME	QTY	NO	PART NAME	QTY
1	HEX RUBBER BUSH	1	10	FORWARDS PEDAL ARM ASSEMBLE	1
2	RUBBER BUSH	4	11	FORWARDS PEDAL	1
3	MOUNT ASSEMBLE	2	12	SNAP RING 12	2
4	REVERSE PEDAL	1	13	REVERSE SWITCH SEAT	1
5	REVERSE PEDAL ARM ASSEMBLE	1	14	HEX FLANGE BOLT M6 X 16	4
6	SOCKET HEAD SCREW M8 X 20	2	15	ALLEN SCREW M6 X 35	3
7	CONTROL SPINDLE ASSEMBLY	1	16	HEX NUT M6	3
8	SCREW M5X18	3	17	ACCELERATOR BRACKET WELDMENTS	1
9	DRAG SPRING	3	18	THROTTLE SENSOR ASSEMBLE	1

## ***48V RIDING MOWER MODEL: PRM48V38***

<b>NO</b>	<b>PART NAME</b>	<b>QTY</b>	<b>NO</b>	<b>PART NAME</b>	<b>QTY</b>
18-1	PIVOT	1	18-8	SCREW M5 X 18	1
18-2	MAGNET MOUNT	1	19	HEX NUT M5	2
18-3	MAGNET	1	20	HEX NUT M6	4
18-4	BODY	1	21	HEX NUT M3	2
18-5	THROTTLE SENSOR	1	22	ELASTIC RING 3	2
18-6	SCREW ST2.9 X 8	3	23	HEX NUT BRM148S-108	1
18-7	COVER	1	24	SCREW M3 X 30	2

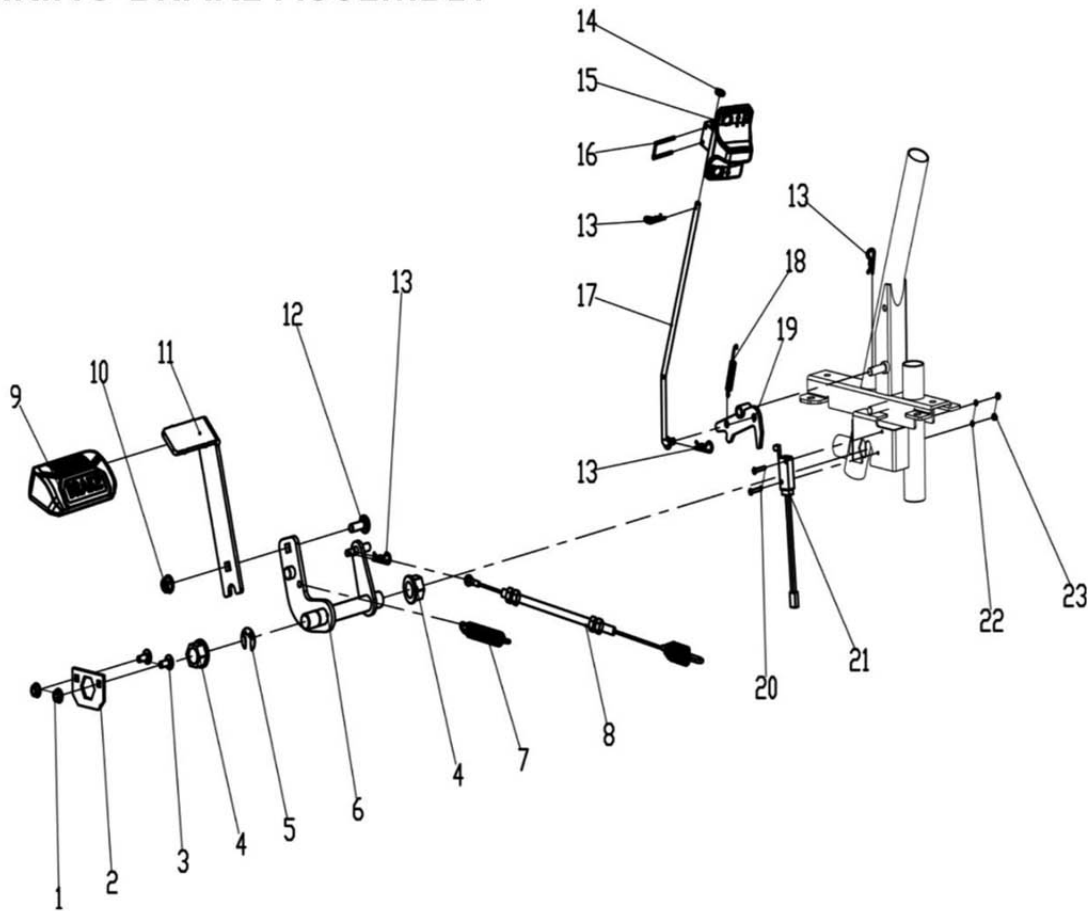
**STEERING WHEEL ASSEMBLY**



NO	PART NAME	QTY	NO	PART NAME	QTY
1	HEX LOCK NUT M10X1.25	4	6	DRAG LINK	2
2	JOIN BEARING SIJK10C LH	2	7	HEX NUT M10	2
3	WASHER $\phi 10.1 \times \phi 20 \times 4$	2	8	JOIN BEARING SIJK10C	2
4	HEX FLANGE BOLT M10X1.25X35	2	9	HEX FLANGE LOCK NUT M8	5
5	HEX NUT M10 LH	2	10	STEERING SPINDLE ASSEMBLE	1

# 48V RIDING MOWER MODEL: PRM48V38

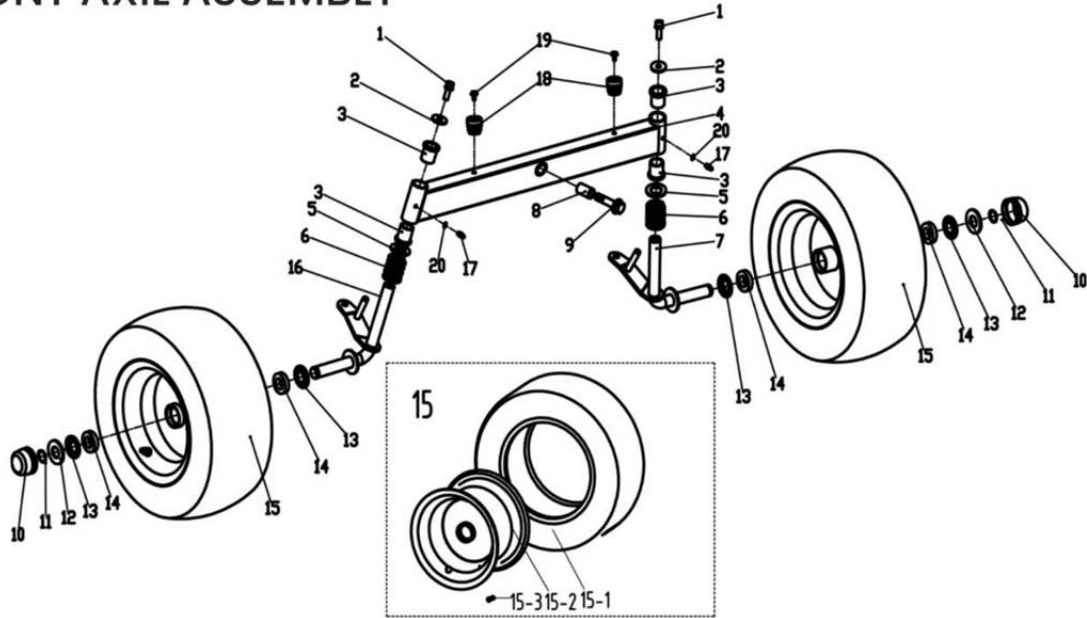
## PARKING BRAKE ASSEMBLY



NO	PART NAME	QTY
1	HEX FLANGE LOCK NUT M6	2
2	BRAKE SHAFT SEAT LEFT	1
3	BOLT M6 X 16	2
4	HEX RUBBER BUSH	2
5	SNAP RING 12	1
6	BRAKE SPINDLE ASSEMBLE	1
7	DRAG SPRING, CONTROL	1
8	BRAKE CABLE ASSEMBLY	1
9	BRAKE PEDAL	1
10	HEX FLANGE LOCK NUT M8	1
11	BRAKE PEDAL PLATE ASSEMBLE	1
12	BOLT M8 X 25	1

NO	PART NAME	QTY
13	BOW-TIE COTTER PIN 2	4
14	WASHER 6	1
15	PARKING HANDLE	1
16	U-SHAPE LATCH	1
17	DRAG LINK, BRAKE PARKING	1
18	DRAG SPRING, BRAKE PARKING	1
19	PARKING PLATE ASSEMBLE	1
20	SCREW M3 X 20	2
21	ALARM SWITCH ASSEMBLY	1
22	HEX NUT M3	2
23	ELASTIC RING 3	2

## FRONT AXIL ASSEMBLY



NO	PART NAME	QTY	NO	PART NAME	QTY
1	HEX FLANGE BOLT M8 X 25	2	13	WASHER, BEARING	4
2	WASHER	2	14	BEARING 61904-2RZ	4
3	HEXAGON RUBBER BUSH	4	15	COMPLETE WHEEL 15 X 6-6	2
4	FRONT BEAM	1	15-1	TIRE ONLY 15 X 6-6	2
5	WASHER 20	2	15-2	RIM ONLY 6-6	2
6	COMPRESSION SPRING 30 X 43 X 4.5	2	15-3	VALUE TUBELESS	2
7	FRONT AXLE LH	1	16	FRONT AXLE RH	1
8	HUB	1	17	GREASE FITTING M6	2
9	HEX FLANGE BOLT M12 X 1.25 X 50	1	18	YD-KU01-45	2
10	HUB COVER	2	19	M5 X 12	2
11	AXIAL ELASTIC RING 19	2	20	WASHER 6	2
12	WASHER $\phi$ 20 X $\phi$ 43X3	2			



## ***48V RIDING MOWER MODEL: PRM48V38***

PRORUN regularly improves our products, and you may find slight differences between your machine and the descriptions contained within this operator's manual. Modifications can be made to the machine without notice and without the obligation to update the manual, providing that the essential safety and functional characteristics remain unaltered. Contact PRORUN Customer Service with any questions and for current specifications.

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