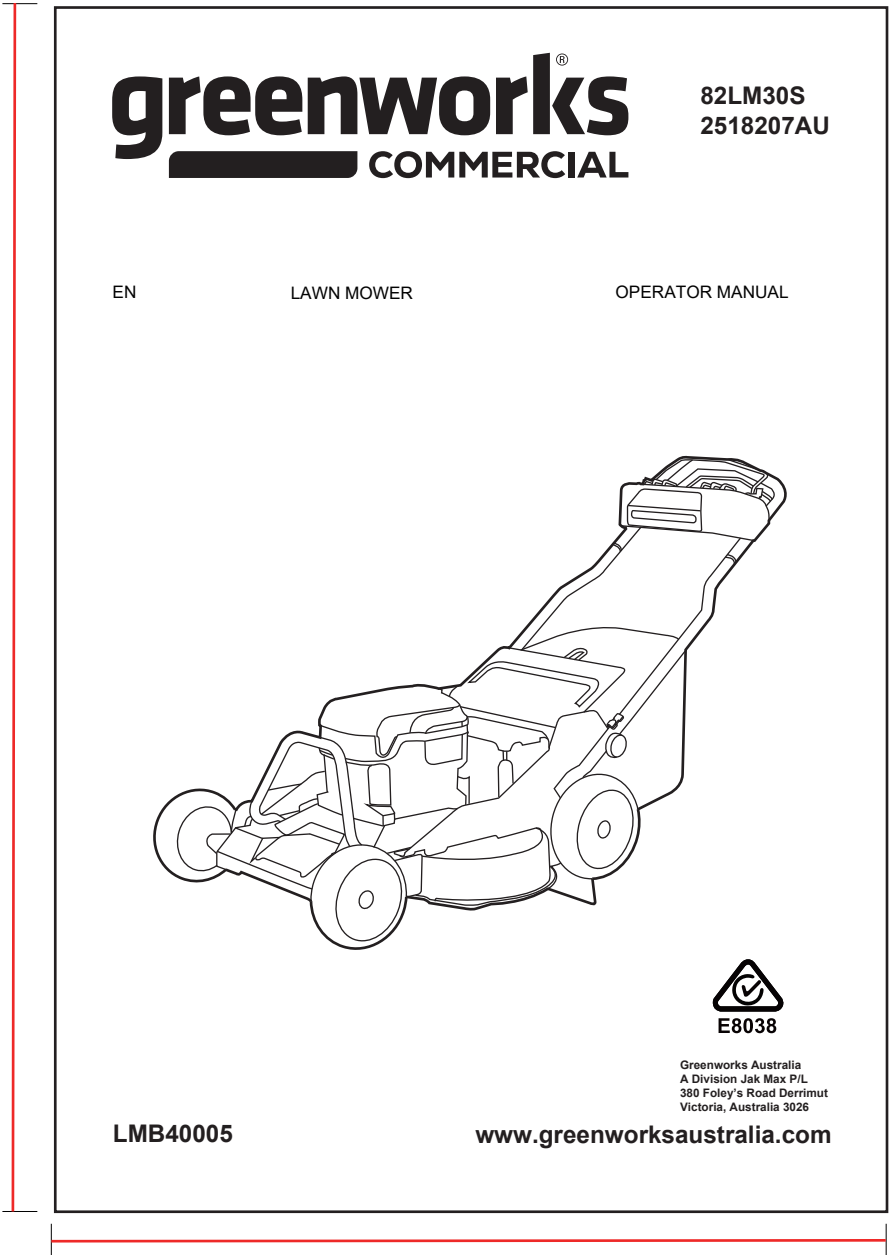


P0804908-00



210mm

145mm

COLOR

 K

K

技术要求:

1. 材质要求：60g双胶纸, 85%本白
2. 28P, 内容见电子档;
3. 单色印刷, 要求无色差、无污点;
4. 骑马钉, 裁切均匀、无连页, 钉子不能生锈;
5. 以封样为准。
6. 料件需符合格力博HSF文件(编号: GLB-CGR-146) 里关于环保和有害物质的具体要求。

版本号

B

重要度等级

B

日期

说明书

常州格力博集团

GC 82V Mower

2518207AU

ERP号

P0804908-00

共 1 张

第 1 张

greenworks[®]

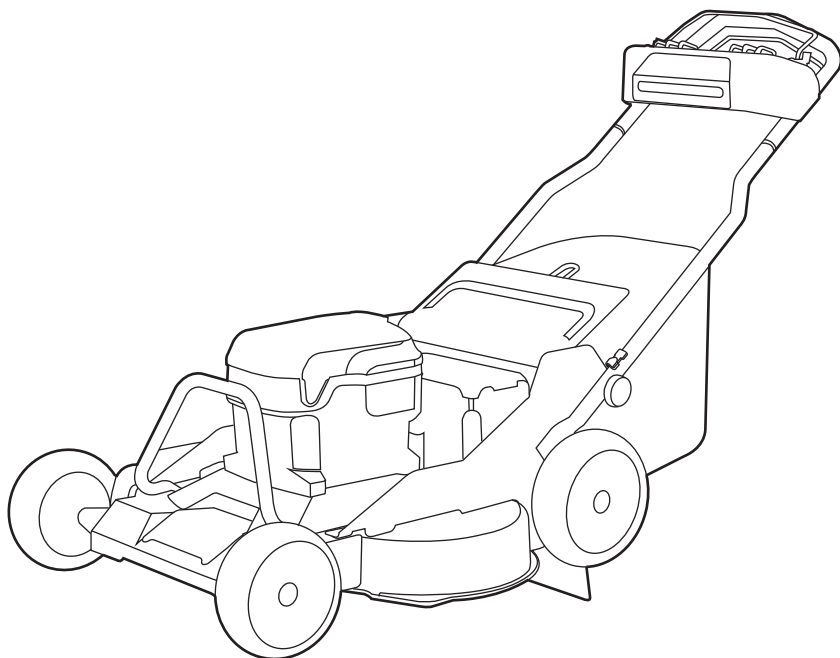
COMMERCIAL

82LM30S
2518207AU

EN

LAWN MOWER

OPERATOR MANUAL



LMB40005

www.greenworksaustralia.com

Greenworks Australia
A Division Jak Max P/L
380 Foley's Road Derrimut
Victoria, Australia 3026

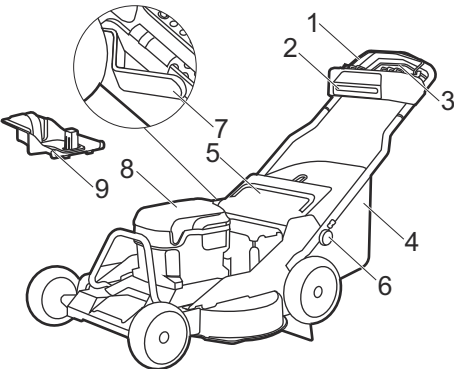
1	Description.....	2	7.6	Install the battery pack.....	11
1.1	Purpose.....	2	7.7	Remove the battery pack.....	12
1.2	Overview.....	2	8	Operation.....	12
1.3	Overview for panel.....	2	8.1	Start the machine.....	12
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2.1	Work area safety.....	2	8.4	Operate the self-propel drive system.....	12
2.2	Electrical safety.....	3	8.5	Adjusting the drive speed.....	13
2.3	Personal safety.....	4	8.6	LED Headlights.....	13
2.4	Power tool use and care.....	5	8.7	Empty the grass catcher.....	14
2.5	Battery tool use and care.....	6	8.8	Operate on slopes.....	14
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7.5	Set the cutting height.....	10	12	Limited warranty.....	21

1 DESCRIPTION

1.1 PURPOSE

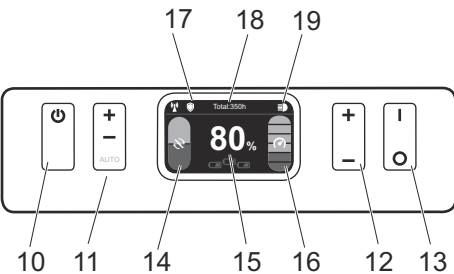
This machine is used for commercial lawn mowing. The cutting blade should be parallel to the ground. All four wheels should touch the ground while mowing.

1.2 OVERVIEW



- 1 Bail switch
- 2 LED light
- 3 Self-propel drive lever
- 4 Grass catcher
- 5 Rear discharge door
- 6 Knob
- 7 Handle height adjustment
- 8 Battery door
- 9 Mulch plug

1.3 OVERVIEW FOR PANEL



- 10 Power switch
- 11 Cutting speed switch
- 12 Drive speed switch
- 13 LED switch
- 14 Cutting speed indicator
- 15 Battery indicator

- 16 Drive speed indicator
- 17 Security
- 18 Battery life indicator
- 19 LED indicator

2 GENERAL POWER TOOL SAFETY WARNINGS

▲ WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

2.1 WORK AREA SAFETY

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence

of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.2 ELECTRICAL SAFETY

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- 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.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock. NOTE The term “residual current device (RCD)” can be replaced by the term “ground fault circuit interrupter (GFCI)” or “earth leakage circuit breaker (ELCB)”.

2.3 PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- 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.
- 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 tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- 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.
- Do not let familiarity gained from frequent use of tools

allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

2.4 POWER TOOL USE AND CARE

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking

into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

- 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 tool in unexpected situations.

2.5 BATTERY TOOL USE AND CARE

- 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.
- Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

- When 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.

3 LAWNMOWER SAFETY WARNINGS

- Do not use the lawnmower in bad weather conditions, especially when there is a risk of lightning. This decreases the risk of being struck by lightning.
- Thoroughly inspect the area for wildlife where the lawnmower is to be used. Wildlife may be injured by the lawnmower during operation.
- Thoroughly inspect the area where the lawnmower is to be used and remove all stones, sticks, wires, bones, and other foreign objects.

Thrown objects can cause personal injury.

- Before using the lawnmower, always visually inspect to see that the blade and the blade assembly are not worn or damaged. Worn or damaged parts increase the risk of injury.
- Check the grass catcher frequently for wear or deterioration. A worn or damaged grass catcher may increase the risk of personal injury.
- Keep guards in place. Guards must be in working order and be properly mounted. A guard that is loose, damaged, or is not functioning correctly may result in personal injury.
- Keep all cooling air inlets clear of debris. Blocked air inlets and debris may result in overheating or risk of fire.
- While operating the lawnmower, always wear non-slip and protective footwear. Do not operate the lawnmower when barefoot or wearing open sandals. This reduces the chance of injury to the feet from contact with the moving blade.
- While operating the lawnmower, always wear long trousers. Exposed skin increases the likelihood of injury from thrown objects.
- Do not operate the lawnmower in wet grass. Walk, never run. This reduces the risk of slipping and falling which may result in personal injury.
- Do not operate the lawnmower on excessively steep slopes. This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- When working on slopes, always be sure of your footing, always work across the face of slopes, never up or down and exercise extreme caution when changing direction. This reduces the risk of loss of control, slipping and

falling which may result in personal injury.

- Use extreme caution when reversing or pulling the lawnmower towards you. Always be aware of your surroundings. This reduces the risk of tripping during operation.
- Do not touch blades and other hazardous moving parts while they are still in motion. This reduces the risk of injury from moving parts.
- When clearing jammed material or cleaning the lawnmower, make sure all power switches are off and the battery pack is disconnected. Unexpected operation of the lawnmower may result in serious personal injury.

i NOTE

This warning is omitted for machines with integral batteries.

- When clearing jammed material or cleaning the

lawnmower, make sure all power switches are off and remove (or activate) the disabling device. Unexpected operation of the lawnmower may result in serious personal injury.

4 SYMBOL

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

Symbol	Explanation
	Read operator's manual.
	Keep bystanders away.
	Do not expose machine to rain or wet conditions.
	Beware of sharp blades. Blades continue to rotate after the motor is switched off. Remove the battery pack before maintenance.
	Do not operate on inclines greater than 15°. Mow across the face of slopes, never up and down.
	Beware of electric shock hazard.
	Wait for all components of machine to have completely stopped before touching them.
	Visible radiation, instructional safeguard.

5 RISK LEVELS

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYM-BOL	SIGNAL	MEANING
	DANGER	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	CAUTION	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

6 RECYCLE

	Separate collection. You must not discard with usual household waste. If it is necessary to replace the machine, or if it is no more use to you, do not discard it with household waste.
	Separate collection of used machine and packaging let you recycle materials and use them again. Use of the recycled materials helps prevent environmental pollution and decreases the requirements for raw materials.
Batteries  Li-ion	At the end of their useful life, discard batteries with a precaution for our environment. The battery contains material that is dangerous to you and the environment. You must remove and discard these materials separately at a location that accepts lithium-ion batteries.

7 INSTALLATION

▲ WARNING

Do not use accessories that are not recommended by the manufacturer.

▲ WARNING

Do not put in the safety key or the battery pack until you finalized the assembly of all the parts.

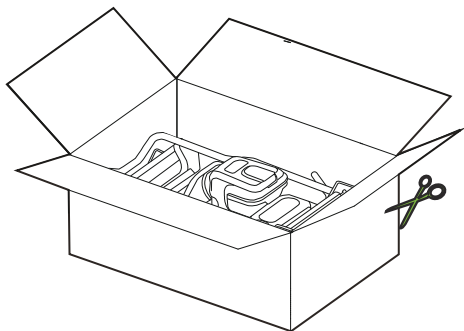
7.1 UNPACK THE MACHINE

▲ WARNING

Make sure that you correctly assemble the machine before use.

▲ WARNING

- If parts of the machine are damaged, do not use the machine.
- If parts are missing, do not operate the machine.
- If parts are damaged or missing, contact the service center.

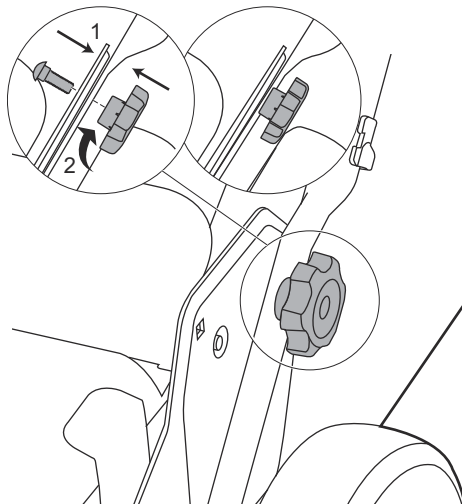


1. Open the package.
2. Read the documentation provided in the box.
3. Discard cardboard corner from the box.
4. Discard cardboard surrounded the mower from the box.
5. Remove the grass catcher from the carton.
6. Cut open the rear corners of the carton, nearest the back of the mower.
7. Remove the mower from the carton.

▲ WARNING

For your personal safety, do not insert battery before the tool is assembled completely.

7.2 UNFOLD AND INSTALL THE HANDLE

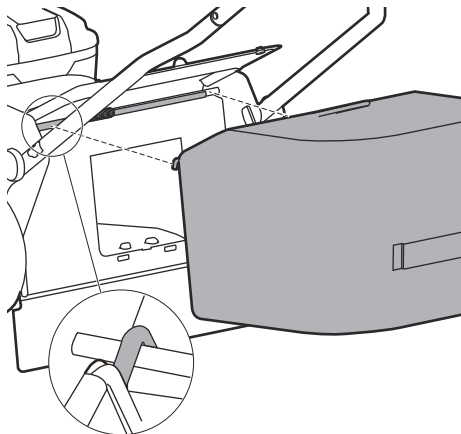


1. Line up the handle knobs in one of the three positions on the brackets.
2. Push the bolt into the slot and rotate clockwise to fasten it.
3. Do the same operation on the other side.

i NOTE

Make sure that the two handle bolts are in the same position.

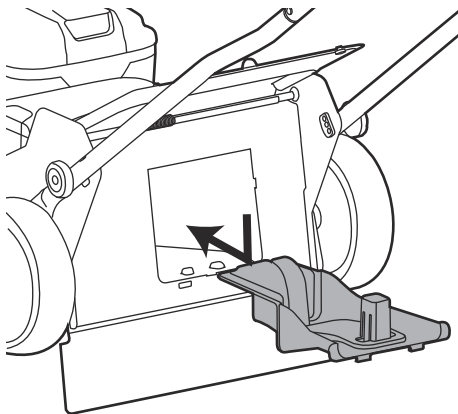
7.3 INSTALL THE GRASS CATCHER



1. Remove the mulch plug.

2. Open the rear discharge door and hold it.
3. Hold the grass catcher by its handle and engage the hooks on the door rod.
4. Close the rear discharge door.

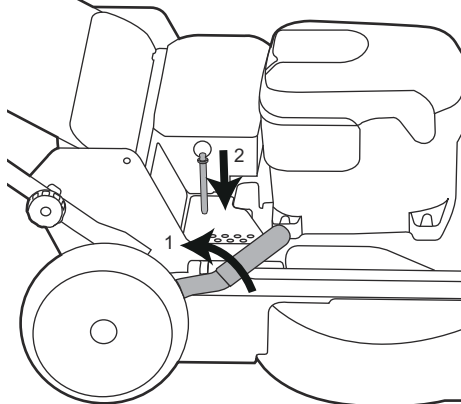
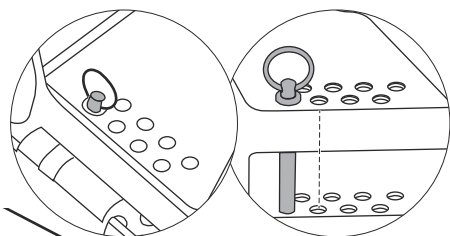
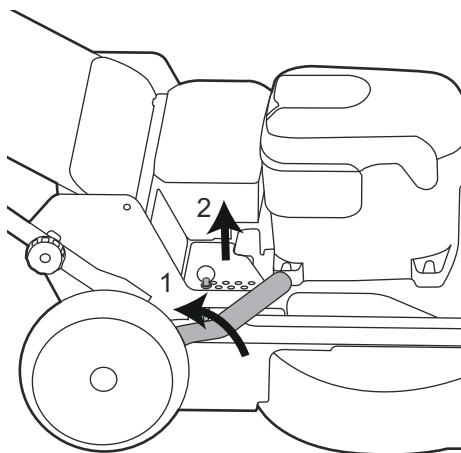
7.4 INSTALL THE MULCH PLUG



1. Remove the grass catcher.
2. Open the rear discharge door and hold it.
3. Hold the mulch plug by its handle and fit it in the discharge chute.
4. Close the rear discharge door.

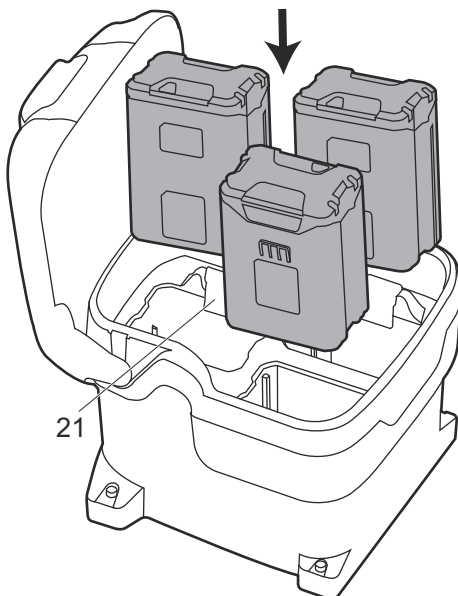
7.5 SET THE CUTTING HEIGHT

The machine can be set to different cutting height.



1. Remove the locating pin by slightly pull the rod backward.
2. Grab the rod and move it backward to raise the height or move it towards to decrease the height.
3. Align the upper and lower holes, then insert the locating pin.

7.6 INSTALL THE BATTERY PACK



▲ WARNING

- If the battery pack or charger is damaged, replace the battery pack or the charger.
- Stop the machine and wait until the engine stops before you install or remove the battery pack.
- Read, know, and follow the instructions in the battery and charger manual.

1. Open the battery door.
2. Align the ribs on the battery pack with the grooves in the battery compartment.
3. Push the battery pack into the battery compartment until the battery pack locks into place.
4. When you hear a click, the battery pack is installed.
5. Close the battery door.
6. After inserting the battery pack, the battery indicator will turn grey to green.

i NOTE

You can also insert one or two battery packs.

i NOTE

When the battery pack is lower than 16%, the battery indicator will turn red.

i NOTE

When the battery pack is over temperature, temperature indicator will ture red and glitter .

7.7 REMOVE THE BATTERY PACK

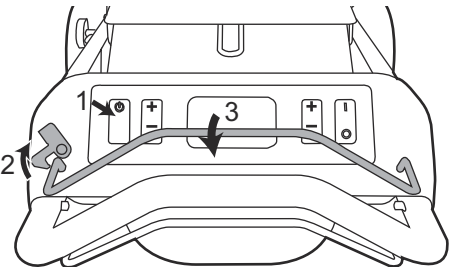
- 1. Open the battery door.
- 2. Push and hold the battery release button (21).
- 3. Remove the battery pack from the machine.

8 OPERATION

▲ WARNING

Wear eye protection during operation.

8.1 START THE MACHINE



- 1. Press the power switch once and wait for the display to respond.
- 2. Push aside the mechanical lock trigger.
- 3. Grab the bail switch in the direction of the handle bar.

8.2 STOP THE MACHINE

- 1. Release the bail switch to stop the machine.
- 2. The machine has stand-by time. You can continue operating during this period or just press the power switch to shut it down.

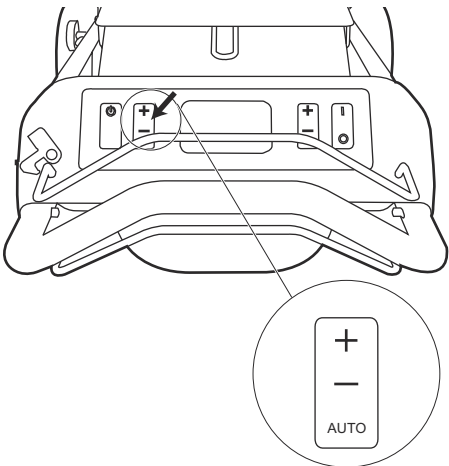
▲ WARNING

Wait until the blade fully stops before you start the machine again. Do not quickly turn the machine off and on.

▲ WARNING

Always remove battery pack after you complete the work.

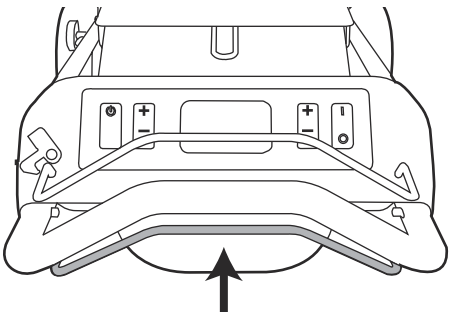
8.3 ADJUSTING THE CUTTING SPEED



- 1. Press the cutting speed switch to adjust the cutting speed anytime during your operation.
- 2. Refer to the table for variable cutting speed.

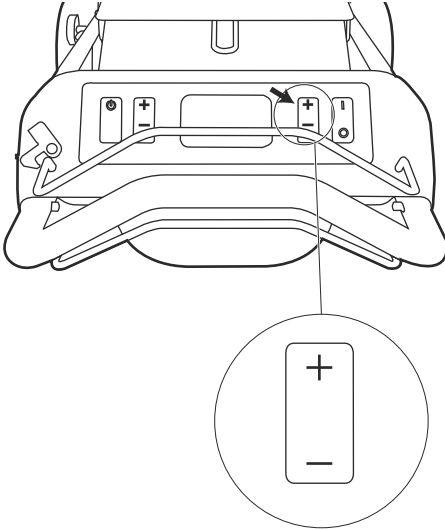
Action	Cutting mode	Panel indicator
Press ' - ' button	Low cutting speed (3500 RPM)	
Press ' + ' button	High cutting speed (4000 RPM)	
Press ' AUTO ' button	Auto adjusting cutting speed (3500 ~ 4000 RPM)	

8.4 OPERATE THE SELF-PROPEL DRIVE SYSTEM



1. Press the power switch once and wait for the display to respond.
2. Grab the self-propel drive levers and pull towards the handle bar.
3. Release the lever to close the self-propel system.

8.5 ADJUSTING THE DRIVE SPEED



1. Press the drive speed switch to adjust the speed anytime during your operation.
2. The mower runs at the highest speed when the handle is in the lowest position.
3. Five modes are optional for your preference. Please refer to the table for more details.

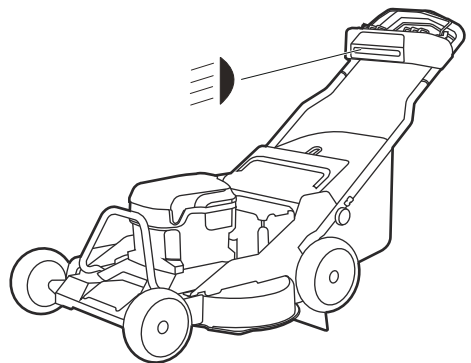
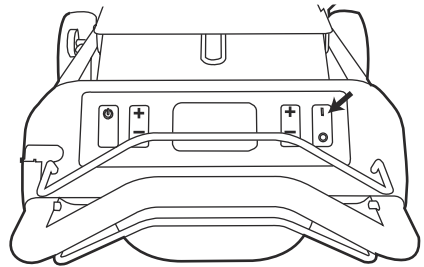
Drive mode	Method	Panel indicator
Default drive mode	Start the machine	
Level 2	 Press '+' to increase Press '-' to decrease	
Level 3		
Level 4		

Level 5		
Level 6		
Reverse mode	Press '-' for 1.5 second (press '+/-' to quit the mode and return to original drive mode)	

i NOTE

Press the '+' '-' button once for changing the speed to next mode.

8.6 LED HEADLIGHTS



1. Press the LED switch forward to turn on the LED headlight.
2. Press the switch backward to turn off the LED headlight.

8.7 EMPTY THE GRASS CATCHER

1. Stop the machine.
2. Remove the battery pack(s).
3. Open the rear discharge flap and hold it.
4. Hold the grass catcher by its handle and unhook it from the flap rod.
5. Close the rear discharge flap.
6. Empty the grass catcher.

8.8 OPERATE ON SLOPES

▲ WARNING

Do not mow on the slopes with incline more than 15°. If you are not comfortable, do not mow on a slope.

▲ WARNING

Please keep a low self-propelled speed when you mow on a slope.

- Do not go up and down on a slope, mow across the face of the slope. Be careful when you change the direction on a slope.
- Monitor the holes, ruts, rocks, and other hidden objects that can cause you to fall. Remove all obstacles such as rocks and tree limbs.
- Make sure that your footing is stable. If you are out of balance, release the start handle immediately.
- Do not mow near drop-offs, ditches, or embankments.

8.9 OPERATION TIPS

- Do not try to override the operation of the start button or start handles.
- Do not tilt the machine when you start it.
- Do not put hands or feet near or below the turning parts.
- Keep the discharge chute clean.
- Do not cut wet grass.
- Higher blade height is necessary for new or thick grass.
- Clean the bottom of the mower deck after each use. Remove grass clippings, leaves, dirt, and other debris.

9 MAINTENANCE

▲ WARNING

Remove the safety key and battery pack from the machine before maintenance.

▲ WARNING

Keep the motor and battery pack free from grass, leaves or too much grease.

▲ CAUTION

Use only approved replacement parts.

▲ CAUTION

Do not let brake fluids, gasoline, petroleum-based materials touch the plastic parts. Chemicals can cause damage to the plastic, and make the plastic unserviceable.

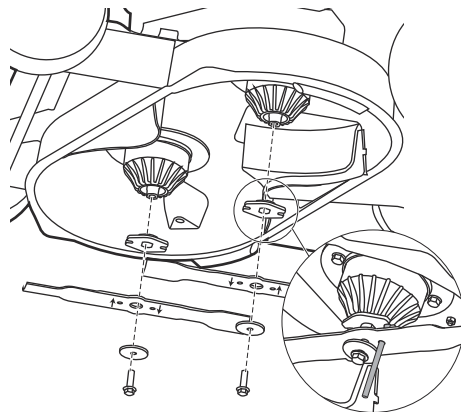
▲ CAUTION

Do not use strong solvents or detergents on the plastic housing or components.

9.1 GENERAL MAINTENANCE

- Before each use, examine the machine for damaged, missing, or loose parts such as screws, nuts, bolts and caps.
- Tighten correctly all the fasteners and caps.
- Clean the machine with a dry cloth. Do not use water.

9.2 REPLACE THE BLADE



▲ WARNING

Use only approved replacement blades.

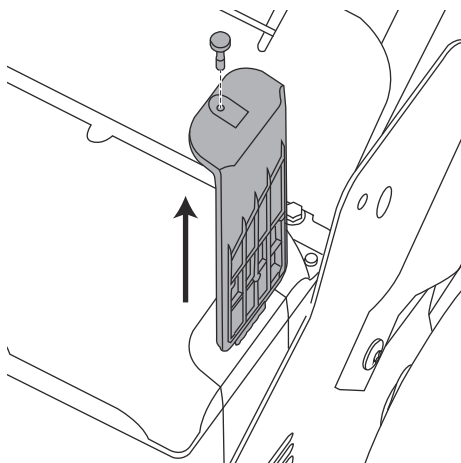
▲ WARNING

Wear heavy gloves or wind cloth around the blade when you touch the blade.

1. Stop the machine.
2. Make sure that the blade is fully stopped.

3. Remove battery packs.
4. Turn the machine to its side.
5. Insert an 8 mm mandril into the holes on the blade and blade fixed seat.
6. Remove the mounting screw and spacer with a wrench or socket.
7. Remove the blade.
8. Remove the blade fixed seat.
9. Install the blade fixed seat.
10. Install the new blade.
11. Put in the spacer and tighten the mounting screw.
Recommended tightening torque: 24 - 27 ft.lbs. 33 - 37 N.m.

9.3 CLEAN THE AIR FILTER



i NOTE

Clean the air filter after using the machine for 20 hours.

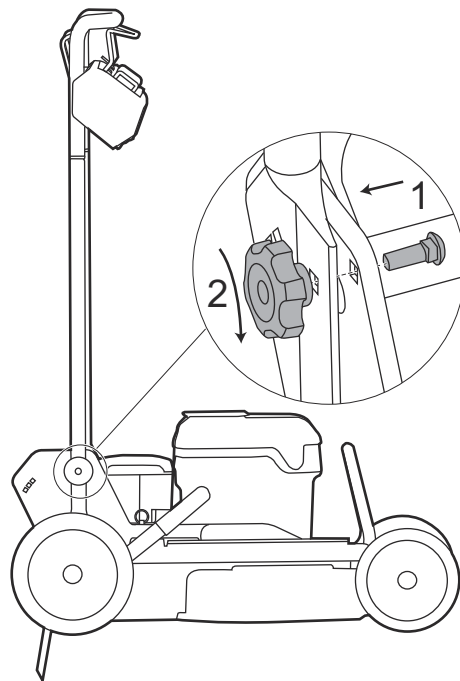
1. Stop the machine.
2. Remove battery packs.
3. Clean the area around the air filter with a damp cloth or soft brush.
4. Turn the bolt counterclockwise until the air filter can be removed.
5. Remove the air filter by lifting it up.
6. Rinse away coarse dirt from the outside of the air filter under running water. Never spray the air filter with a pressure washer.
7. If the air filter is damaged, replace it.
8. Allow the air filter to air dry.
9. After the air filter has dried thoroughly, push it into place by hand.

10. Tighten the bolt.

9.4 STORE THE MACHINE

- Remove the battery pack(s).
- Clean the machine before storage.
- Make sure the motor is not hot when you store the machine.
- Make sure that the machine does not have loose or damaged parts. If it is necessary, follow these instructions:
 - Replace the damaged parts.
 - Tighten the bolts.
 - Speak to a person at an approved service center.
- Store the machine in a dry area.
- Make sure that children cannot come near the machine.

9.5 VERTICAL STORAGE



1. Remove the grass catcher.
2. Remove the batteries.
3. Line up the handle knobs in the top hole on the brackets.
4. Push the bolt into the slot and rotate clockwise to fasten it.

5. Do the same operation on the other side.

10 TROUBLESHOOTING

If there is a fault with the machine, the control panel will display a fault code. Please refer to the table for a solution.

Failure code	Problem	Solution
1	Driving motor over-current error.	Shut down driving motor and restart
2	Driving motor over-heated error.	Waiting for the driving motor to cool down and re-start. (2 minutes)
3	Driving failure.	Replace the driving controller.
4	Blade controller over-current error.	Release blade bail and restart.
5	Blade motor or PCBAs over-heated error.	Waiting for the Blade motor and PCBAs to cool down and restart.
6	Blade controller failure.	Replace the blade controller.
7	PMU failure.	Restart the device. If it doesn't work, Replace the PMU controller.
8	LCD screen error.	Inspect if the input voltage of LCD screen is normal. Or replace the LCD screen.
9	Slave communication error.	Check if the communication cable is disconnected or not. If it's normal, Replace the Controller.
10	SP mainboard internal communication error.	Replace SP controller.
11	SP mainboard over-current error.	Restart the mower. If it doesn't work, replace the SP controller.
12	SP mainboard hall sensor failure.	Replace SP controller.
13	SP external communication error.	Replace SP controller.
14	SP mainboard under-voltage error.	Replace a full charged battery.
15	SP mainboard offset error.	Replace SP controller.
16	SP mainboard MOS error	Replace SP controller.
17	SP mainboard over-voltage error	Restart the device. If it doesn't work, Replace the SP controller.
18	SP mainboard stuck error.	Restart the device. If it doesn't work, Replace the SP controller or replace the hub motor wheel.
19	SP mainboard over heated error.	Shut down to cool the device and restart.
20	SP mainboard phase failure error.	Replace SP controller.
21	SP slave board internal communication error.	Replace SP controller.
22	SP slave board over-current error.	Turn off the mower to clear the error to restart. If the errors occur frequently, Replace the SP controller.
23	SP slave board hall sensor error.	Replace SP controller.
24	SP slave board under-voltage error.	Replace a full charged battery.
25	SP slave board offset error.	Replace SP controller.
26	SP slave board MOS error.	Replace SP controller.
27	SP slave board stuck error.	Restart the device. If it doesn't work, Replace the SP controller or replace the hub motor wheel.
28	SP slave board Heat error.	Restart the device. If it doesn't work, Replace the SP controller.
29	SP slave board phase failure error.	Replace SP controller.
30	SP slave board other error.	Replace SP controller.

Failure code	Problem	Solution
40	Blade motor stuck.	Turn off the mower and check if the motor rotor is locked or not.
41	Blade motor out of step.	Release the bail and restart the mower. If the failure is still occurred, replace the blade motor controller.
42	Blade motor phase failure.	Check if the terminals between the controller and the motor is loosed.
43	Blade motor low speed protection.	Release the bail to clear the error.
44	Blade motor over heated protection.	Turn off the blade to cool.
45	Blade motor restart failure.	In case of repeated restart failures, replace the blade motor controller.
46	Blade motor controller first stage over current.	Release the lever to clear the fault. Restart the blade again after the equipment is under light load. If the fault continues to be reported, replace the cutter driver.
47	Blade motor controller second stage over current.	Release the lever to clear the fault. Restart the blade again after the equipment is under light load. If the fault continues to be reported, replace the cutter driver.
48	Blade motor controller third stage over current.	Release the lever to clear the fault. Restart the blade again after the equipment is under light load. If the fault continues to be reported, replace the cutter driver.
49	Blade motor controller four stage over current.	Release the lever to clear the fault. Restart the blade again after the equipment is under light load. If the fault continues to be reported, replace the cutter driver.
50	Blade motor controller peak over current.	Release the bail and restart the mower. If the failure is still occurred, replace the blade motor controller.
51	Blade controller short circuit.	Replace the blade motor controller.
52	Low voltage of cutting bus.	Check if the input voltage of the blade motor controller is under voltage.
53	High voltage of cutting bus.	Check if the input voltage of the blade motor controller is over voltage.
54	Blade motor controller MOS over heated.	Stop the machine and restart it after the MOS cools down. If the fault cannot be eliminated, replace the blade motor controller.
55	Blade motor controller Software authentication exception.	Replace the blade motor controller.
56	Blade motor controller inspection failure.	Replace the blade motor controller.
57	Blade motor internal communication error.	Replace the blade motor controller.
58	Blade motor external communication error.	Replace the blade motor controller.
59	Blade slave motor stuck error.	Turn off the mower and check if the motor rotor is locked or not.
60	Blade slave motor out of step.	Release the bail and restart the mower. If the failure is still occurred, replace the blade motor controller.

Failure code	Problem	Solution
61	Blade slave motor phase failure.	Check if the terminals between the controller and the motor is loosed.
62	Blade slave motor low speed protection.	Release the bail to clear the error.
63	Blade slave motor over heated protection.	Turn off the blade to cool.
64	Blade slave motor restart failure.	In case of repeated restart failures, replace the blade motor controller.
65	Blade slave motor controller first stage over current.	Release the lever to clear the fault. Restart the blade again after the equipment is under light load. If the fault continues to be reported, replace the cutter driver.
66	Blade slave motor controller second stage over current.	Release the lever to clear the fault. Restart the blade again after the equipment is under light load. If the fault continues to be reported, replace the cutter driver.
67	Blade slave motor controller third stage over current.	Release the lever to clear the fault. Restart the blade again after the equipment is under light load. If the fault continues to be reported, replace the cutter driver.
68	Blade slave motor controller four stage over current.	Release the lever to clear the fault. Restart the blade again after the equipment is under light load. If the fault continues to be reported, replace the cutter driver.
69	Blade slave motor controller peak over current.	Release the bail and restart the mower. If the failure is still occurred, replace the blade motor controller.
70	Blade slave controller short circuit.	Replace the blade motor controller.
71	Blade slave motor controller MOS over heated.	Stop the machine and restart it after the MOS cools down. If the fault cannot be eliminated, replace the blade motor controller.
72	Blade slave motor controller Software authentication exception.	Replace the blade motor controller.
73	Blade slave motor controller inspection failure.	Replace the blade motor controller.
74	Blade slave motor controller other error.	Replace the blade motor controller.
75	Blade main motor controller wrong operation sequence.	Release the bail to eliminate the error. If it can't be removed, replace the blade motor controller.
76	Blade main motor controller other error.	Replace the blade motor controller.
80	PMU over heated.	The equipment is automatically powered off and can be used again after cooling.
81	PMU under voltage.	Charge the battery.
82	PMU over voltage.	Restart the mower.
83	PMU mean over current.	The equipment is powered off and restarted. If the fault cannot be eliminated, check whether the PMU or the rear motor drive board is short circuited. Replace the PMU or the motor drive board.
84	PMU peak over current.	The equipment is powered off and restarted. If the fault cannot be eliminated, check whether the PMU

Failure code	Problem	Solution
		or the rear motor drive board is short circuited. Replace the PMU or the motor drive board.
85	The feedback current of PMU battery pack is too large. (This fault code is only used for fault prompt of parallel discharge board)	Restart the mower. If it doesn't work, replace the SP controller.
86	PMU BMS controller MOS over heated.	Turn off the mower to cool the controller and restart it.
87	Disconnected communication between the PMU and motor controller.	Release the bail and restart the mower. If the failure is still occurred, replace the PMU controller or blade motor controller.
88	PMU external communication error.	Release the bail and restart the mower. If the failure is still occurred, replace the PMU controller or blade motor controller.
89	BAT 1 over-heated error.	Shut down and restart after the battery pack cools down. If the problem cannot be solved, consider replacing the battery pack.
90	BAT1 low temperature.	If the working environment temperature of the equipment meets the low temperature working environment of the battery pack, it is necessary to consider replacing the battery pack.
91	BAT1 under voltage.	Recharge the battery.
92	BAT1 communication error.	Replace new battery.
93	BAT1 unbalanced discharge.	Replace new battery.
94	BAT1 NTC failure.	Replace new battery
95	BAT1 communication interruption.	Replace new battery
96	BAT1 other failure.	Replace new battery
97	BAT 2 over-heated error.	Shut down and restart after the battery pack cools down. If the problem cannot be solved, consider replacing the battery pack.
98	BAT2 low temperature.	If the working environment temperature of the equipment meets the low temperature working environment of the battery pack, it is necessary to consider replacing the battery pack.
99	BAT2 under voltage.	Recharge the battery.
100	BAT2 communication error.	Replace new battery.
101	BAT2 unbalanced discharge.	Replace new battery.
102	BAT2 NTC failure.	Replace new battery.
103	BAT2 communication interruption.	Replace new battery.
104	BAT2 other failure.	Replace new battery.
105	BAT 3 over-heated error.	Shut down and restart after the battery pack cools down. If the problem cannot be solved, consider replacing the battery pack
106	BAT3 low temperature.	If the working environment temperature of the equipment meets the low temperature working environment of the battery pack, it is necessary to consider replacing the battery pack.

Failure code	Problem	Solution
107	BAT3 under voltage.	Recharge the battery.
108	BAT3 communication error.	Replace new battery.
109	BAT3 unbalanced discharge.	Replace new battery.
110	BAT3 NTC failure.	Replace new battery.
111	BAT3 communication interruption.	Replace new battery.
112	BAT3 other failure.	Replace new battery.
113	PMU has no available battery pack.	Restart the mower and replace new battery.
114	PMU other failure.	Release the bail and restart the mower. If the failure is still occurred, replace the PMU controller.
120	LCD screen hall sensor.	Pull the self-propelled lever to the lowest position. If the failure is still occurred, replace the hall components.

* If you cannot find the solution to these problems, go to the service center.

11 TECHNICAL DATA

Voltage	82 V
Battery model	82BD250/82BD400/82BD500/82BD800 and other Greenworks Commercial 82V series
Charger model	82DPC8A/82CH62K and other Greenworks Commercial 82V series
No load speed	3400RPM/3800RPM
Height adjustments	1.5" - 5" (3.8 - 12.5 cm)
Self-propelled speed	1.7 - 6fps (0.5 - 1.8 m/s)
Self-propelled speed (reverse mode)	1.3 fps (0.4 m/s)
Functions	2-in-1 Mulch & Rear Bag
Weight (without battery and charger)	183 lbs (83 kg)

12 LIMITED WARRANTY



Greenworks Commercial hereby warranties this product, to the original purchaser with proof of

purchase, 2-year commercial power train warranty, 2-year commercial battery warranty against defects in materials, parts or workmanship. Greenworks Commercial, at its own discretion will repair or replace any and all parts found to be defective, free of charge to the customer. This warranty is valid only for units which have been used for personal or commercial use and that have been maintained in accordance with the instructions in the owners' manual supplied with the product from new.

2-YEAR LIMITED POWER TRAIN WARRANTY COVERAGE:

- Motor
- PCB Boards
- Gear Box
- 2 years from the date of purchase (non transferable)

2-YEAR LIMITED BATTERY WARRANTY COVERAGE:

- Greenworks Commercial Battery Packs (82BD250, 82BD400, 82BD500, 82BD800 and other 82BD or GL series)

- 2 year from the date of purchase (non transferable)

60-DAY LIMITED WEARABLE PARTS WARRANTY COVERAGE:

- Bars
- Blades
- Guards
- Chains

- Bump Feed Heads
- Tines
- Auger Bit
- Adaptor
- Extender
- 60 Days from date of purchase (non transferable)

WARRANTY EXCLUSIONS, LIMITATIONS AND RIGHTS:

1. All warranties may not be transferred by the consumer to any subsequent purchaser.
2. Parts or components not supplied by the warrantor, or parts or components that have been modified.
3. Any failure resulting from the use of improper tools or improper repair procedures.
4. Any failure resulting from the use of improper tools or improper repair procedures.
5. Any failure or part that has become inoperative due to accident, impact, abuse, misuse, neglect, mishandling, dulling of cutting edges, or failure to operate the product in accordance with the information provided in the instruction manual supplied with the product.
6. Routine maintenance items such as lubricants, blade sharpening.
7. The unit, if it has not been operated and/or maintained in accordance with the owner's manual.

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