

Radley®

10 AMP Dethatcher

Owner's Manual

3 Year limited
warranty



READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.

TECHNICAL DATA

10 AMP DETHATCHER	
Rating voltage	120 V~60 Hz
Rating current	10 A
No load speed	3600 RPM
Deck width	16" (41 cm)
Cutting width	13" (32 cm)
Dethatching depth	-3.0/-6.0/-9.0 mm, 3 positions
Dethatcher blade diameter	5" (12.7 cm)
Weight	21.6 lbs (9.80 kg)
Protection degree	□ II

Need Assistance?

Call us on our toll free customer support line:

1-833-818-4111 (Monday through Friday, 9am – 5pm, Eastern Standard Time)











- Technical questions
- Replacement parts
- Parts missing from package

TABLE OF CONTENTS

Technical Data	1
Table of Contents	2
Symbols	3
General Safety Warnings	4-6
Know Your Dethatcher	7
Operating Instructions	8-11
Working Hints for your Tool	11
Maintenance	12
Troubleshooting	13
Exploded View	14-15
Parts List.....	16-18
Warranty	19

SYMBOLS

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 effectively and safely.

V	Volts - Voltage	W	Watts - Power
A	Amperes - Current	~	Alternating current - Type of current
Hz	Hertz - Frequency (cycles per second)	/min	Per Minute-Revolutions, strokes, surface speed, orbits, etc., per minute.
min	minutes - time		Direct current - Type of current
	Class II Construction-Dou- ble-insulated construction		WARNING - Beware of sharp tines, keep fingers and toes away. Remove plug from mains before maintenance, adjusting, cleaning or if the cord is entangled or damaged. Tines continue to rotate after the motor is switched off.
	Warning		Keep bystanders away.
	Read operator's manual		Keep the power cord away from the blades.
	Wear eye protection		Remove plug from the mains immediately if the cord is damaged or cut.
	Wear ear protection		

READ ALL INSTRUCTIONS BEFORE USING THIS DETHATCHER

GENERAL SAFETY WARNINGS

⚠ WARNING: When using electric garden products, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following:

⚠ WARNING: Read all instructions.


⚠ WARNING: This product can expose you to chemicals including lead, phthalate or bisphenol A which are known to cause cancer, birth defects or other reproductive harm. Wash your hands after use

FOR ALL DETHATCHERS

1. Avoid Dangerous Environments - Don't use appliances in damp or wet locations.
2. Don't Use In Rain.
3. Keep Children Away - All visitors should be kept at a distance from work area.
4. Dress Properly - Do not wear loose clothing or jewellery. They can be caught in moving parts. Use of rubber gloves and substantial footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
5. Use Safety Glasses - Always use face or dust mask if operation is dusty.
6. Use the Right Dethatcher - Do not use dethatcher for any job except that for which it is intended.
7. Ground Fault Circuit Interrupter (GFCI) protection should be provided on the circuit(s) or outlet(s) to be used for the gardening appliance. Receptacles are available having built-in GFCI protection and may be used for this measure of safety.
8. Warning -To reduce the risk of electric shock, use only with an extension cord intended for outdoor use, such as an extension cord of cord type SW-A SOW-A, STW-A, STOW-A, SJW-A, SJOW-A, SJTW-A, or SJTOW-A.
9. Extension Cord - Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized extension cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord. To reduce the risk of disconnection of appliance cord from the extension cord during operating:
 - i) Make a knot as shown in Figure 1; or

SAVE THESE INSTRUCTIONS FOR REFERENCE

- ii) Use one of the plug-receptacle retaining straps or connectors described in this manual.
- 10. Avoid Unintentional Starting - Don't carry plugged-in dethatcher with finger on switch. Be sure switch is off when plugging in.
- 11. Don't Abuse Cord - Never carry dethatcher by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- 12. Don't grasp the exposed cutting blades or cutting edges when picking up or holding the dethatcher.
- 13. Don't Dethatcher - It will do the job properly and safer at the rate for which it was designed.
- 14. Don't Overreach - Keep proper footing and balance at all times.
- 15. Stay Alert - Watch what you are doing. Use common sense. Do not operate dethatcher when you are tired.
- 16. Disconnect Dethatcher - Disconnect the dethatcher from the power supply when not in use, before servicing, when changing accessories such as blades, and the like.
- 17. Store Idle Dethatcher Indoors - When not in use, dethatcher should be stored indoors in dry, and high or locked-up place - out of reach of children.
- 18. Maintain Dethatcher With Care - Keep cutting edge sharp and clean for best performance and to reduce the risk of injury. Follow instructions for lubricating and changing accessories. Inspect appliance cord periodically, and if damaged, have it repaired by an authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
- 19. Check Damaged Parts - Before further use of the dethatcher, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless indicated elsewhere in this manual.

 **WARNING:** Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

READ ALL INSTRUCTIONS BEFORE USING THIS DETHATCHER

Table 1
Minimum gauge for extension cords

Volts	Total length of cord			
	25' 7.2 m	50' 15.2 m	100' 30.4 m	150' 45.7 m
120 V				
Ampere rating more than not more than	AWG			
0-6	18	16	16	14
6-10	18	16	14	12
10-12	16	16	14	12
12-16	14	12	Not recommended	

FOR ALL DOUBLE-INSULATED DETHATCHERS

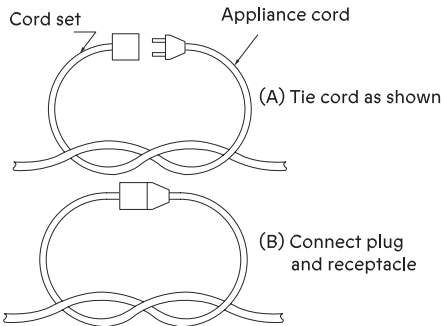
1. Replacement Parts

When servicing use only identical replacement parts.

2. Polarized Connections

To reduce the risk of electric shock, this dethatcher has a polarized plug (one blade is wider than the other) and will require the use of a polarized extension cord. The plug will fit into a polarized extension cord only one way. If the plug does not fit fully into the extension cord, reverse the plug. If the plug still does not fit, obtain a correct polarized extension cord. A polarized extension cord will require the use of a polarized wall outlet. This plug will fit into the polarized wall outlet only one way. If the plug does not fit fully into the wall outlet, reverse the plug. If the plug still does not fit, contact a qualified electrician to install the proper wall outlet. Do not change the equipment plug, extension cord receptacle, or extension cord plug in any way.

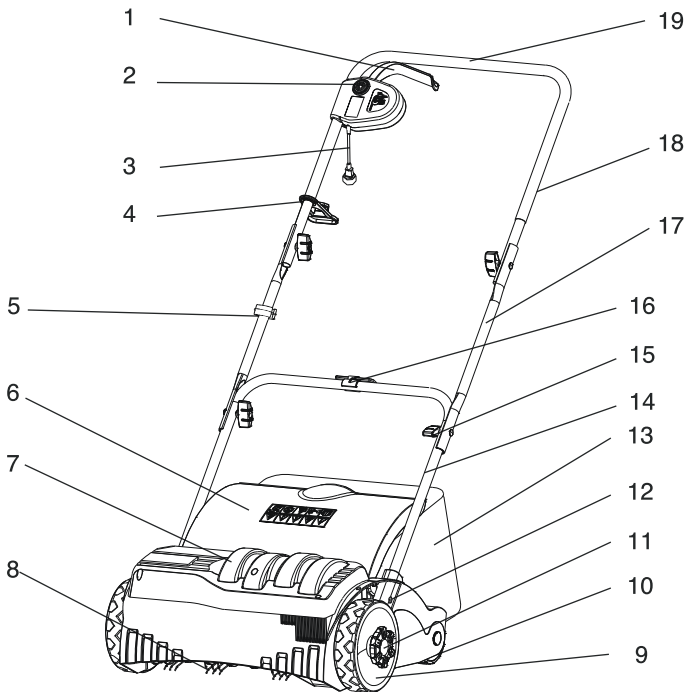
Figure 1
Method of securing extension cord



KNOW YOUR DETHATCHER

- | | | |
|----------------------------|------------------------------------|---------------------------|
| 1. Switch lever | 7. Motor cover | 13. Grass collection bag |
| 2. Safety lock-out button | 8. Dethatcher blade tine | 14. Lower handle |
| 3. Power cord | 9. Front wheel | 15. Fixing bolt & screw |
| 4. Extension cord retainer | 10. Rear wheel | 16. Allen wrench & holder |
| 5. Cable clip | 11. Dethatching height adjust knob | 17. Middle handle |
| 6. Rear flap | 12. Lower handle fixing screw | 18. Upper handle |
| | | 19. Handlebar |


Not all the accessories illustrated or described are included in standard delivery.



We recommend that you purchase your accessories listed in the above list from the same store that sold you this product. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.


READ ALL INSTRUCTIONS BEFORE USING THIS DETHATCHER

OPERATING INSTRUCTIONS

 **NOTE:** Read operator's manual

INTENDED USE

This product is intended for domestic, dethatching, scarifying of lawn. This appliance is not intended for dethatching on hard materials such as steel rod, stones and other hard materials which exceeds its cutting capacity and will damage the tines.

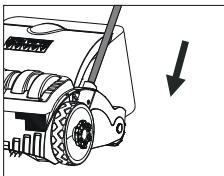
 **WARNING:** To avoid injury from unexpected starting or electrical shock, during assembly or adjustment, do not plug the power cord into a source of power.

ASSEMBLY

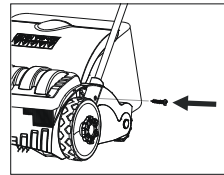
1. ASSEMBLING HANDLES

Installing The Lower Handle

1. Insert the lower handle into the housing hole.

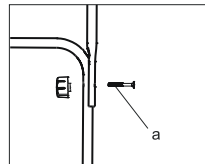


2. Align the two holes on the handle and the housing. Use the supplied screw to fasten the lower handle to the housing.



Installing The Middle Handle

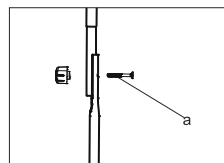
1. Position the middle handle to make the holes line up with the lower handle holes.
2. Align the square holes in lower handle with the middle handle.
3. Insert the supplied hex bolt (a) through the holes from the outside of the handlebar.



4. Thread the handle knob onto the hex bolt to tighten securely into place.

Installing The Upper Handle

1. Position the upper handle to make the holes line up with the middle handle holes.
2. Align the square holes in middle handle with the upper handle.
3. Insert the supplied hex bolt (a) through the holes from the outside of the handlebar.



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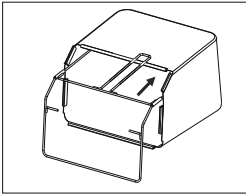
4. Thread the handle knob onto the hex bolt to tighten securely into place.

NOTE: Install the extension cord retainer to upper handle with wire side before installing the upper handle with lower handle.

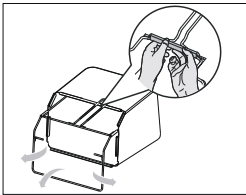
2. ASSEMBLING THE GRASS COLLECTION BAG

To Assemble The Grass Catcher

1. Put the grass catcher frame into the grass collection bag with the rigid part of the bag on the bottom. Make sure the frame handle is outside of the bag top.

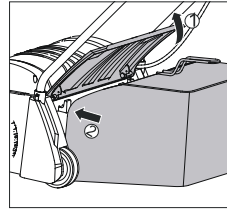


2. Slip the vinyl bindings over the frame.



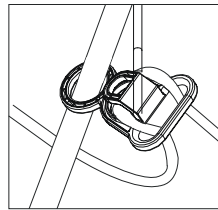
Assembling The Grass Collection Bag

Lift up the back cover first and hang up the grass collection bag onto the dethatcher.



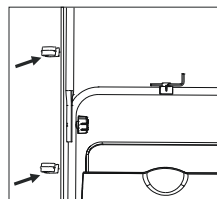
3. EXTENSION CORD RETAINER

After securing the extension cord, use the extension cord retainer to prevent the extension cord from disconnecting from the power cord while the tool is in use. Attach cord retainer to handle.



4. ATTACH CORD CLIP

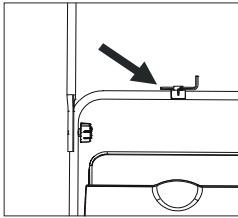
Fasten the machine cable cord with the cord clip to the handlebar.



5. ATTACH ALLEN WRENCH & RETAINER

Attach the Allen wrench retainer on to the middle of the lower handle, then attach the Allen wrench into the retainer.

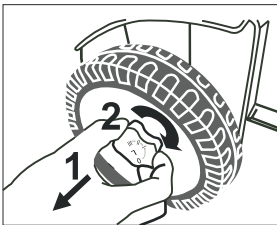
READ ALL INSTRUCTIONS BEFORE USING THIS DETHATCHER



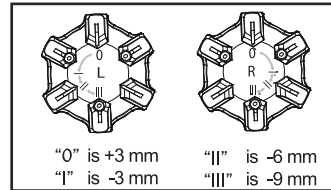
6. ADJUSTING THE DETHATCHING DEPTH

⚠ WARNING: Before you adjust the dethatching depth, turn off the power, unplug the tool and ensure the motor has stopped.

1. The dethatching depth is adjusted by turning the adjust knob. You can choose from four different depth settings by pulling out and turning adjust knob.



2. When setting "0", the high setting is locked in. The dethatching depth is approx. 3 mm above the ground. Select depth setting "0" when transporting the dethatcher.
3. When setting "I", the middle setting is locked in. The dethatcher depth is approx. -3 mm.
4. When setting "II", the low setting is locked in. The dethatcher depth is approx -6 mm.
5. When setting "III", the low setting



is locked in. The dethatcher depth is approx -9 mm.

⚠ WARNING: The adjust knob must be firmly locked into place! At the beginning it is best to select depth setting "0" at the start. You can then switch to setting "III" when the dethatcher tines have become worn.

OPERATION

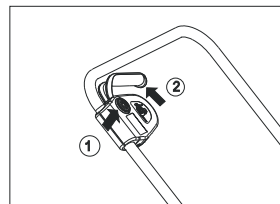
1. STARTING AND STOPPING

To start:

1. Plug the dethatcher into an approved outdoor extension cord.
2. First press and hold the safety lock-out button. And then pull the switch lever to the handlebar to operate.

To stop:

Release the switch lever.

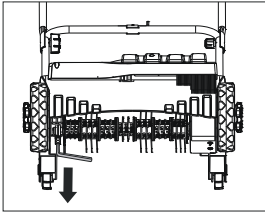


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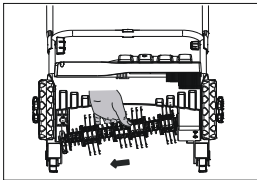
2. REPLACE THE DETHATCHER WHEEL

NOTE: If the dethatcher wheel is worn, replace it. The new individual dethatcher wheel is sold separately.

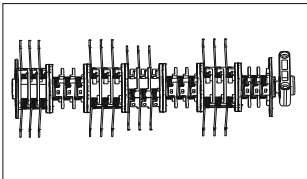
1. Disconnect the dethatcher from the power source. Allow sufficient time for moving parts to totally stop.
2. Turn the dethatcher off.
3. Use the supplied wrench to loosen the two screw nuts.



4. Lift up and pull the worn or broken dethatcher wheel out of the machine.



5. Replace with new ones.



WORKING HINTS FOR YOUR TOOL

Observe all the relevant warnings when using your dethatcher.

1. To look after a lawn properly, you need to do more than just mow it once a week throughout the Summer. The lawn will benefit from a vigorous dethatching of the grass to remove the dead matter, moss and weed which disfigures a lawn. The buildup of dead grass provides a mat of absorbent fibres which prevents water getting through to the ground.
2. Do not force your dethatcher through grass that is too long. It is recommended that your dethatcher should not be in grass that is longer than 75 mm/3".
3. Do not use in wet or damp conditions.
4. To obtain the best results, use the dethatcher at the beginning and end of each grass cutting season.

READ ALL INSTRUCTIONS BEFORE USING THIS DETHATCHER

MAINTENANCE

Disconnect from main electric supply.

Do not use an extension cable which shows signs of damage. Fit a new cable completely – do not make any permanent or temporary repairs. Always keep your unit clean and free from grass cuttings, especially the underside of the cutter deck and the air vents. Check all electrical cables at regular intervals, looking for signs of wear, abrasion or other damage. Remove the debris stuck to the bottom of the machine each time you finish operating it. Clean all plastic components with a damp cloth.

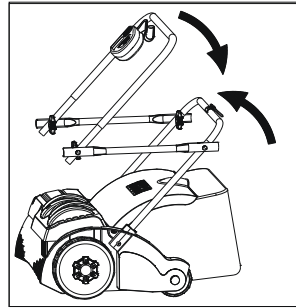
⚠ WARNING: Do not use solvents or cleaning fluids as these may damage the plastic component of your unit.

Store in a secure, dry place out of the reach of children. Do not place other objects on the product. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

SPACE-SAVING STORAGE

Loosen the fixing bolts so that the handlebar can be folded up for space-saving storage.

⚠ WARNING: Ensure that the cables are not squeezed.



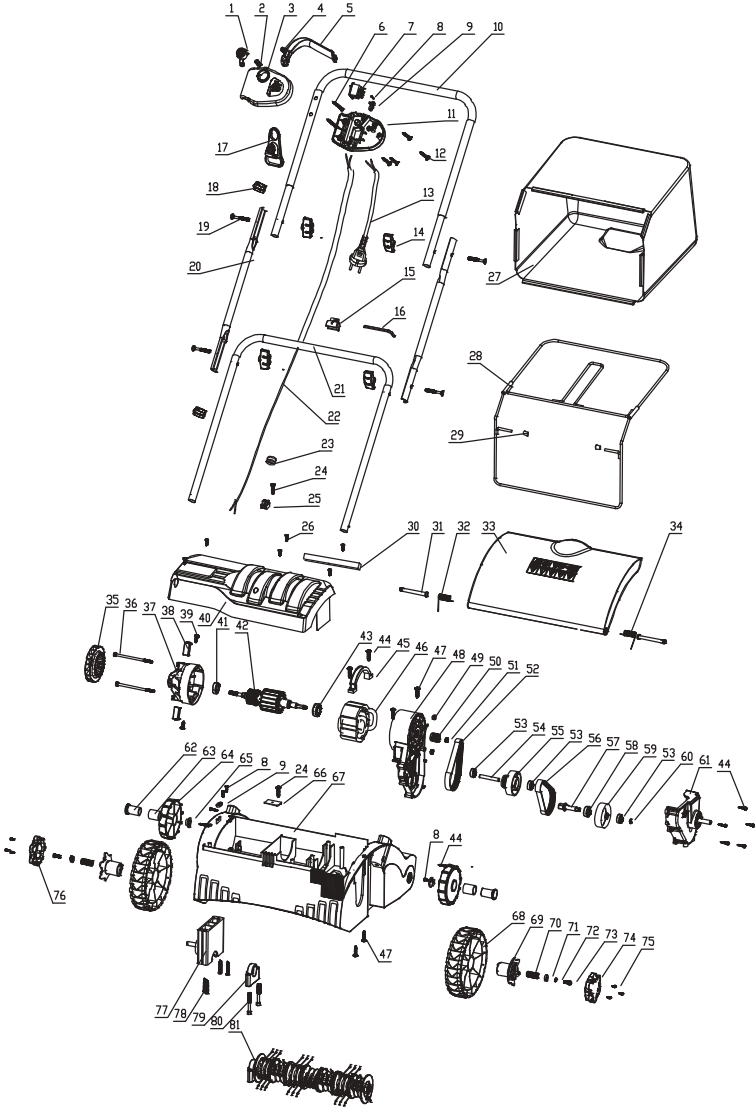
SAVE THESE INSTRUCTIONS FOR REFERENCE

TROUBLESHOOTING

Problem	Possible Causes	Corrective Action
Abnormal noise. Clattering in the unit. Whistling sound.	Foreign objects on the dethatcher cylinder are hitting the dethatcher. Foreign objects blocking the dethatching cylinder.	1. Switch off the dethatcher, remove the power cord from the outlet and wait until the cylinder has stopped rotating. 2. Remove foreign objects. 3. Check the dethatcher immediately.
Whistling sound.	Belt slipping.	Contact an authorized service centre.
Motor does not start.	Faulty cable. The conductor cross-section of the extension cable may be too low.	Contact an electrician.
The dethatcher is difficult to push.	Blocked by foreign objects. The grass is too tall.	1. Switch off the motor, remove the plug from the socket and wait until the dethatcher has stopped rotating. 2. Remove the foreign objects. 3. After approximately one minute, switch on the dethatcher. Mow the lawn before dethatching.
Dethatching results are not satisfactory.	Spring tine wear. Belt faulty. Lawn has grown too tall.	Adjust the dethatcher cylinder. Contact an authorized service centre. Mow the lawn before using the dethatcher.

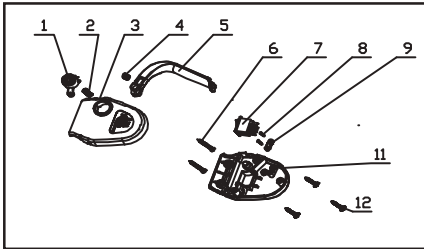
READ ALL INSTRUCTIONS BEFORE USING THIS DETHATCHER

EXPLODED VIEW

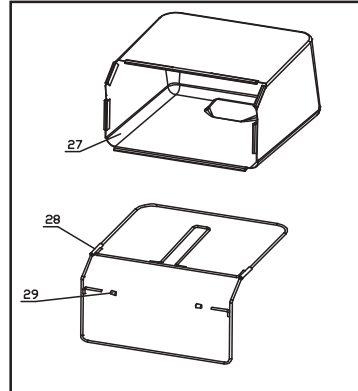


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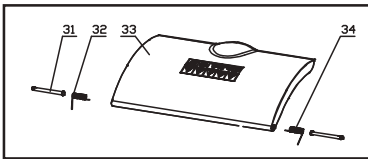
A01



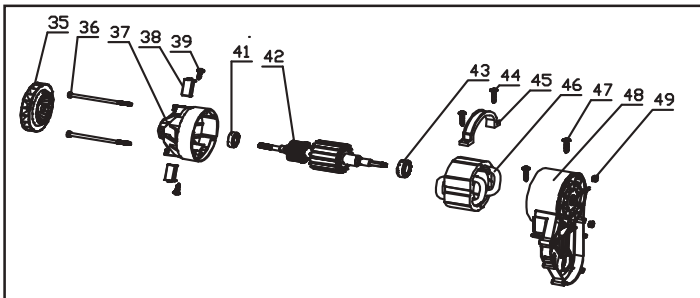
A02



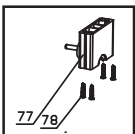
A03



A04



A05



READ ALL INSTRUCTIONS BEFORE USING THIS DETHATCHER

PARTS LIST

⚠ WARNING: When servicing, use only original equipment replacement parts. The use of any other parts may create a safety hazard or cause damage to the 10 Amp Dethatcher. Any attempt to repair or replace parts on this 10 Amp Dethatcher may create a safety hazard unless repairs are performed by a qualified technician. For more information, call the Toll-free Helpline, at 1-833-818-4111 – Monday-Friday from 9am - 5pm Eastern Standard Time.

Always order by key number.

Key #	Part #	Part Name	Quantity
1	AIAO011001	Switch button	1
2	AIAO011002	Button spring	1
3	AIAO011003	Switch box upper cover	1
4	AIAO011004	Trigger lever spring	1
5	AIAO011005	Trigger lever	1
6	AIAO011006	Cross recessed pan head self- tapping screw ST4.2X25	2
7	AIAO011007	Switch	1
8	AIAO011008	Self tapping screw ST4 2x16	6
9	AIAO011009	Fixing board	2
10	AIAO011010	Upper handle	1
11	AIAO011011	Switch box lower cover	1
12	AIAO011012	Self-tapping screw ST4 2x16	3
13	AIAO011013	Power cable	1
14	AIAO011014	Lock knob	4
15	AIAO011015	Plastic bracket	1
16	AIAO011016	Hexagon key S6	1
17	AIAO011017	Cable grasper	1
18	AIAO011018	Cable clip	2
19	AIAO011019	Square neck bolt, full thread M6x45	4
20	AIAO011020	Middle handle Ø18	2
21	AIAO011021	Lower handle Ø18	1
22	AIAO011022	Connect wire	1
23	AIAO011023	Cable sleeve	1
24	AIAO011024	Cross-recessed pan head self-tapping screw	2
25	AIAO011025	Terminal block	1
26	AIAO011026	Self-tapping screw ST4.2X16	6
27	AIAO011027	Grass bag	1
28	AIAO011028	Grass bag bracket	1
29	AIAO011029	Cap	2
30	AIAO011030	Dust-proof sponge	1

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Key #	Part #	Part Name	Quantity
31	AIAO011031	Connect pin	2
32	AIAO011032	Torsional spring -right	1
33	AIAO011033	Rear flap	1
34	AIAO011034	Torsional spring -left	1
35	AIAO011035	Electric-motor fan	1
36	AIAO011036	Cross-recessed pan head screw M5*100	2
37	AIAO011037	Motor back cover	1
38	AIAO011038	Carbon brush assembly	2
39	AIAO011039	Screw ST4.2x9.5	2
40	AIAO011040	Top cover	1
41	AIAO011041	Deep groove bearing 6001 – 2RS	1
42	AIAO011042	Rotator	1
43	AIAO011043	Deep groove bearing 6201- 2RS	1
44	AIAO011044	Cross recessed pan head tapping screw ST4.2x19	9
45	AIAO011045	Motor fixing board	1
46	AIAO011046	Stator	1
47	AIAO011047	Pan head self-tapping screw with cushion	4
48	AIAO011048	Motor front cover	1
49	AIAO011049	Non-metallic inserts hexagon locking nut – type 1, M5	2
50	AIAO011050	Driving pulley	1
51	AIAO011051	Non-metallic inserts hexagon locking nut M6	1
52	AIAO011052	Belt with groove 6PJ309	1
53	AIAO011053	Deep groove bearing 608-2RS	3
54	AIAO011054	Middle pulley shaft	1
55	AIAO011055	Middle pulley	1
56	AIAO011056	Belt with groove 6PJ299	1
57	AIAO011057	Axle	1
58	AIAO011058	Bearing 6000 2RS	1
59	AIAO011059	Big pulley	1
60	AIAO011060	Retaining washer for shaft 8	1
61	AIAO011061	Gearing box cover	1
62	AIAO011062	Rear wheel shaft	2
63	AIAO011063	Rear wheel shaft bushing	2
64	AIAO011064	Rear wheel	2
65	AIAO011065	Rear wheel shaft cap	2
66	AIAO011066	Plastic board	1
67	AIAO011067	Base	1
68	AIAO011068	Front wheel	2
69	AIAO011069	Eccentric wheel	2

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Key #	Part #	Part Name	Quantity
70	AIAO011070	Wheel shaft spring	2
71	AIAO011071	Dust-proof ring	2
72	AIAO011072	Spring washer 5	2
73	AIAO011073	Cross recessed pan head screw M5x15	2
74	AIAO011074	Adjust wheel-left	1
75	AIAO011075	Cross recessed pan head self-tapping screw ST2.9x7	6
76	AIAO011076	Adjust wheel-right	1
77	AIAO011077	Wheel base-left	1
78	AIAO011078	Cross recessed pan head self-tapping screw	4
79	AIAO011079	Bearing base	1
80	AIAO011080	Hexagon socket round head bolt M6x50	2
81	AIAO011081	Raker assembly	1
A01	AIAO011082	Switch box assembly	1
A02	AIAO011083	Grass bag assembly	1
A03	AIAO011084	Rear flap assembly	1
A04	AIAO011085	Motor assembly	1
A05	AIAO011086	Wheel base- left assembly	1

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WARRANTY

RADLEY 10 AMP DETHATCHER WARRANTY

If this Radley tool fails due to a defect in material or workmanship within three years from the date of purchase, it has a three-year repair warranty with the original bill of sale. This warranty does not include expendable parts including but not limited to blades. This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Radley product is used for commercial or rental purposes, this warranty does not apply.

READ ALL INSTRUCTIONS BEFORE USING THIS DETHATCHER

SAVE THESE INSTRUCTIONS FOR REFERENCE

10 Amp

Dethatcher

Owner's Manual

3 Year limited
warranty



Radley

EXCLUSIVE TO HOME HARDWARE

For information on the entire line up of Radley power tools visit homehardware.ca or your local Home Hardware retail store.

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ST. JACQUES, ONTARIO N0B 2N6
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