

Radley®

144cc Lawn Mower

Owner's Manual



3 Year *limited* warranty



 EPA



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



PRODUCT SPECIFICATIONS

2 IN 1 LAWN MOWER	
Engine type	Single cylinder 4-stroke
Engine displacement	144.3 CC
Engine speed	3100 ± 100 RPM
Cutting path	21" / 53 cm
Height adjustments	1 ¼ to 3¾" / 3.1 to 9.5 cm - 5 positions
Front wheel diameter	7" / 18 cm
Back wheel diameter	11" / 28 cm
Ignition	TCI

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

Product specifications	1
Table of contents	2
General safety warnings	3-5
Symbols	6
Know your 2 in 1 lawn mower	7
Intended use	7
Parts list	8
Assembly and operation	8-15
Assembling upper handle	9
Tying down the bowden cable	9
Installing side discharge chute	10
Checking/filling engine oil	10-11
Filling with engine fuel	11
Setting the cutting height	12
Starting/stopping the engine	13-14
Clearing a flooded engine	14
Mowing	15
Working tips / Emptying the grass bag	16
Storing and Maintenance	15-18
General cleaning	15-16
Maintenance of spark plug	16
Maintenance of air filter	16-17
Checking the engine oil	17
Replacing the blade	17-18
Storing the lawn mower /Maintenance schedule	18
Transporting the lawn mower	19
Troubleshooting	19
Exploded view /Parts list	?
Warranty	?

SAFETY INSTRUCTIONS

TRAINING

1. Read the instructions carefully. Be familiar with the controls and the proper use of the equipment.
2. Never allow children or people unfamiliar with these instructions to use the lawn mower.
3. Never mow while people, especially children, or pets are nearby.
4. Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
5. Do not operate the machine while under the influence of alcohol or drugs.
6. Follow the manufacturer's recommendation for wheel weights or counterweights.
7. Stop the machine and attachment(s) if anyone enters the area.

PREPARATION

1. While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
2. Thoroughly inspect the area where the equipment is to be used and remove all objects which can be thrown by the machine.
3. Warning - gas is highly flammable.
 - Store fuel in containers specifically designed for this purpose.
 - Refuel outdoors only and do not smoke while refueling.
 - Add fuel before starting the engine. Never remove the cap of the fuel tank or add gas while the engine is running or when the engine is hot.
 - If gas is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until gas vapours have dissipated.
 - Replace all fuel tank and container caps securely.
4. Replace faulty mufflers.
5. Before using, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
6. On multi-bladed machines, take care as rotating one blade can cause other blades to rotate.

OPERATION

1. Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
2. Mow only in daylight or in good artificial light.
3. Avoid operating the equipment in wet grass, when possible.
4. Always be sure of your footing on slopes.
5. Walk, never run.
6. For wheeled rotary machines, mow across the face of slopes, never up and down.
7. Exercise extreme caution when changing direction on slopes.
8. Do not mow excessively steep slopes.

READ ALL INSTRUCTIONS BEFORE USING THIS 2 IN 1 LAWN MOWER

9. Use extreme caution when reversing or pulling the lawn mower towards you.
10. Stop the blade(s) if the lawn mower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawn mower to and from the area to be mowed.
11. Never operate the lawn mower with defective guards, or without safety devices, for example deflectors and/or grass catchers, in place.
12. Do not change the engine governor settings or over speed the engine.
13. Disengage all blade and drive clutches before starting the engine.
14. Start the engine or switch on the motor carefully according to instructions and with feet well away from the blade(s).
15. Do not tilt the lawn mower when starting the engine or switching on the motor, except if the lawn mower has to be tilted for starting. In this case, do not tilt it more than absolutely necessary and lift only the part which is away from the operator.
16. Do not start the engine when standing in front of the discharge chute.
17. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
18. Never pick up or carry a lawn mower while the engine is running.
19. Stop the engine and disconnect the spark plug wire, making sure that all moving parts have come to a complete stop, and where a key is fitted remove the key:
 - Before clearing blockages or unclogging chute.
 - Before checking, cleaning or working on the lawn mower.
 - After striking a foreign object, inspect the lawn mower for damage and make repairs before restarting and operating the lawn mower.
 - If lawn mower starts to vibrate abnormally, check immediately.
20. Stop the engine and disconnect the spark plug wire, making sure that all moving parts have come to a complete stop, and where a key is fitted remove the key:
 - Whenever you leave the lawn mower.
 - Before refueling.
21. Reduce the throttle setting during engine shut down and, if the engine is provided with a shut-off valve, turn the fuel off at the conclusion of mowing.
22. Go slow when using a trailing seat.
23. Avoid holes, ruts, bumps, rocks, or other hidden hazards.
24. Do not direct discharge material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blade(s) when crossing gravel surfaces.
25. Do not leave a running machine unattended. Always park on level ground, disengage the attachment, set parking brake, and stop engine.
26. Do not mow in reverse unless absolutely necessary.

SAVE THESE INSTRUCTIONS FOR REFERENCE

27. 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. Never assume that children will remain where you last saw them.
28. Keep children out of the operating area and under the watchful care of a responsible adult other than the operator.
29. Travel in the manufacturer recommended direction on slopes. Use caution while operating near dropoffs.
30. Poor footing could cause a slip and fall accident.
31. Do not operate machine under any condition where traction, steering, or stability is in question. Tires could slide even if the wheels are stopped.
32. Always keep the machine in gear when going down slopes. Do not coast downhill.
33. Avoid starting and stopping on slopes. Avoid making sudden changes in speed or direction. Make turns slowly and gradually.
34. Use extra care while operating machine with a grass catcher or other attachment(s). They can affect the stability of the machine.
35. Extinguish all cigarettes, cigars, pipes and other sources of ignition.
36. Do not store the machine or fuel container, or refuel, where there is an open flame, spark, or pilot light such as on a water heater or other appliance.
37. Use full width ramps for loading and unloading a machine for transport.

MAINTENANCE AND STORAGE

1. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
2. Never store the equipment with gas in the tank inside a building where fumes can reach an open flame or spark.
3. Allow the engine to cool before storing in any enclosure.
4. To reduce the fire hazard, keep the engine, muffler, battery compartment and gas storage area free of grass, leaves, or excessive grease.
5. Check the grass catcher frequently for wear or deterioration.
6. Replace worn or damaged parts for safety.
7. If the fuel tank has to be drained, this should be done outdoors.

READ ALL INSTRUCTIONS BEFORE USING THIS 2 IN 1 LAWN MOWER













SAFETY INFORMATION

IMPORTANT

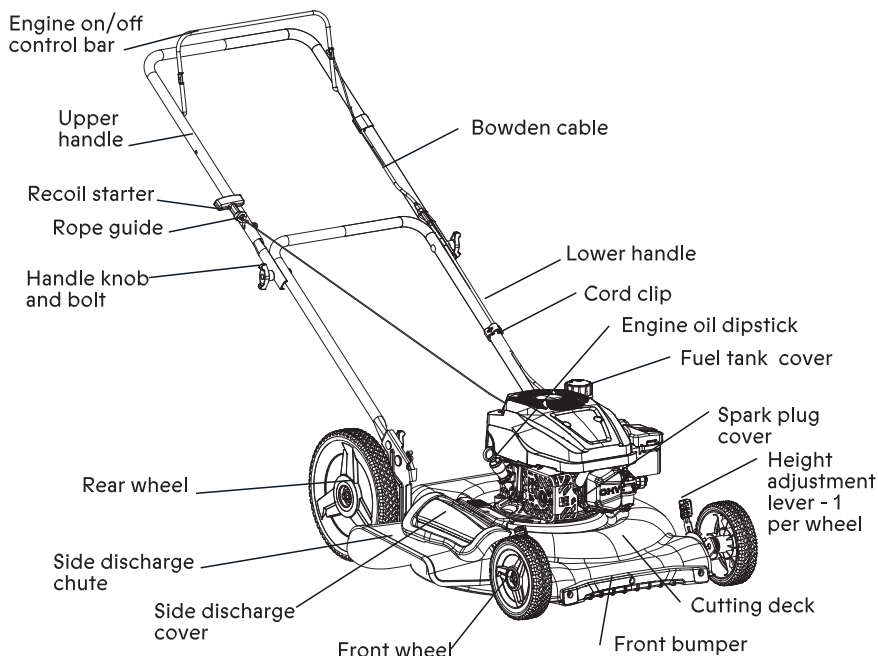
Please read these instructions fully before assembling and operating.

SYMBOLS

The following table 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.

	READ THE OPERATOR'S MANUAL(S) – Read, understand, and follow all instructions in the user manual before attempting to assemble and operate.		Look behind while backing up.
	SAFETY ALERT – Indicates a precaution, a warning, or a danger.		Avoid steep slopes.
	DANGER! Do not open or remove safety shields while the engine is running		Keep fingers and toes away from the rotary mower blades.
	Keep bystanders and children a safe distance away.		WARNING - CARBON MONOXIDE Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odourless and deadly gas.
	DANGER! Keep hands and feet away.		Beware of flying objects that could hit you.
	WARNING - GASOLINE IS FLAMMABLE Allow the engine to cool at least two minutes before refuelling.		WARNING - HOT SURFACE Allow the engine and muffler to cool before touching.

KNOW YOUR 2 IN 1 LAWN MOWER



INTENDED USE

This gas powered lawn mower has been designed for cutting residential lawn areas. The machine is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user/operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

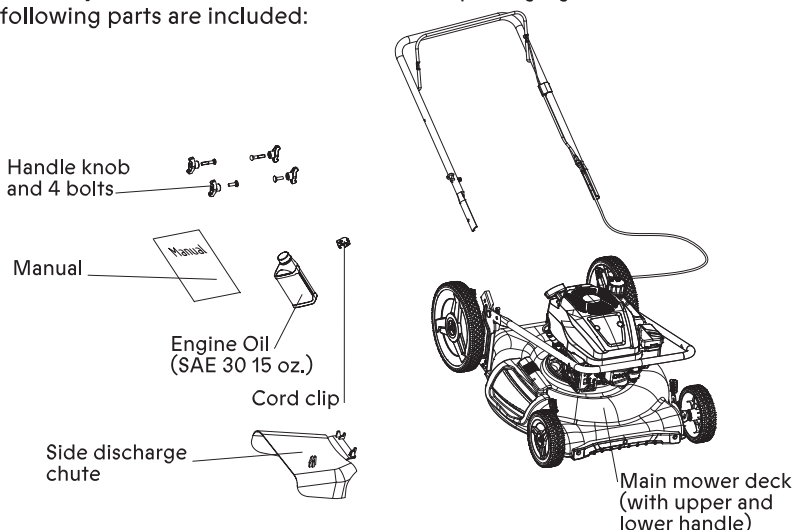
Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the machine is used in commercial, trade or industrial businesses or for equivalent purposes.

⚠ WARNING If any parts are damaged or missing, do not operate this tool until the missing parts are replaced. Failure to heed this warning could result in serious personal injury.

⚠ WARNING This item requires a two person lift to remove from the packaging. Make sure that you have sufficient space to put the lawn mower down. Keep your feet apart so that you have a stable position, bend at the knees and keep your back straight.

PARTS LIST

Carefully remove the lawn mower from its packaging and check that the following parts are included:



ASSEMBLY

⚠ CAUTION! Read instruction manual completely before operating this machine.

IMPORTANT! THIS LAWN MOWER IS SHIPPED WITHOUT OIL OR GASOLINE IN THE ENGINE.

Your new lawn mower has been assembled at the factory with the exception of those parts left disassembled for shipping purposes. All parts, such as nuts, washers, bolts, etc., necessary to complete the assembly have been placed in the parts bag. To ensure safe and proper operation of your lawn mower, all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to ensure proper tightness.

TO REMOVE LAWN MOWER FROM CARTON

1. Remove loose parts included with mower.
2. Cut down two end corners of carton and lay end panel down flat.
3. Remove all packing materials except padding between upper and lower handle and padding holding operator presence control bar to upper handle.
4. Roll lawn mower out of carton and check carton thoroughly for additional loose parts.

ASSEMBLING THE HANDLE

As shown in Figs. 1 and 2.

IMPORTANT: Unfold handle carefully to avoid pinching or damaging the control cables.

1. Lift the rear of the deck and place it on a block of wood (not supplied) to secure it.
2. Place the lower handle over the deck and align the holes on the deck with the corresponding holes on the handle.
3. Secure the lower handle to the deck using the handle knob and bolt (supplied). See Fig. 1.

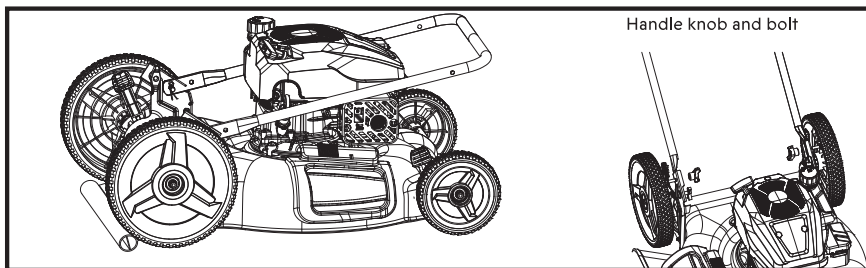


Fig. 1

4. Place the upper handle in position over the lower handle, keeping the engine on/off control bar facing up.
5. Secure the upper handle to the lower handle using the the handle knob and bolt (supplied) see Fig. 2.

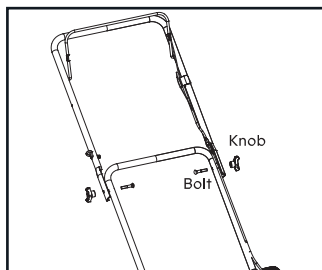


Fig. 2

TYING DOWN THE BOWDEN CABLE

As shown in Fig. 3

Attach the bowden cable to the handle with the cord clip (supplied).

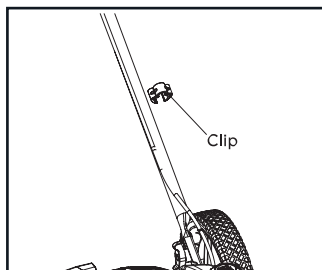


Fig. 3

INSTALLING THE SIDE DISCHARGE CHUTE

As shown in Fig. 4

1. Lift the side discharge cover with one hand and hook in the side discharge chute with the other hand.
2. Release the side discharge cover to secure the chute in position.

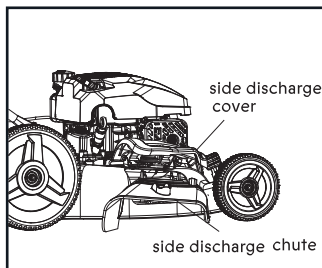


Fig. 4

CHECKING AND FILLING ENGINE OIL

As shown in Figs. 5 to 6

CAUTION! The following procedures and adjustments must be performed before the engine is started. Do not attempt to make any of these adjustments while the engine is running.

CAUTION! To prevent engine damage, the engine is shipped without oil or gas. The engine must be filled with the correct grade of oil and gas before starting the engine.

NOTE! Running the engine with a low oil level will cause engine damage. It is recommended that high detergent, premium quality 4-stroke engine oil be used. Using non-detergent oil can shorten the engine's service life, and using 2-stroke oil will damage the engine.

CAUTION! Always use high quality detergent oil classified SAE30 oil (or equivalent, such as SAE 10W/30, often called 4-stroke lawn mower oil). Never use additives with recommended oil. To prolong the life of your engine it is important that the oil is changed after the first 5 hours of use.

NOTE! To check the engine oil level, stop engine and place the mower on a level surface.

1. Remove the oil filler dipstick and wipe oil from it with a clean cloth. Insert the dipstick into the oil filler neck, and tighten it. (see Fig. 5).

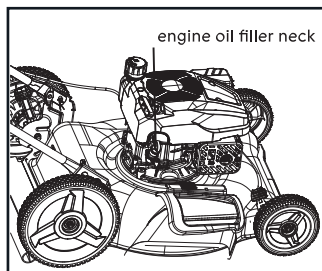


Fig. 5

- Remove the dipstick and check the oil level: the oil level must be between the Min. and Max. marks on the dipstick. If near the lower level, fill to upper level with the recommended oil (SAE30 or equivalent). Do not overfill. Wipe away any spilled oil align, the ribs of the cap with the groove of the filler neck, then insert to secure it (see Fig. 6).

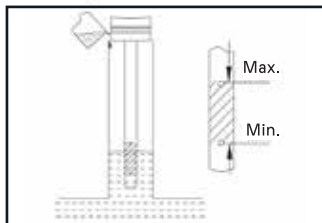


Fig. 6

FILLING WITH ENGINE FUEL

As shown in Fig. 7.

⚠ CAUTION! Always use clean, fresh unleaded gas. Purchase fuel in quantities that can be used within 30 days. Never mix oil with gas.

⚠ CAUTION! Do not fill into the base of neck to allow for fuel expansion. Do not overfill the fuel tank.

⚠ CAUTION! WARNING! Gas is highly flammable and extreme caution must be taken when handling or working with it. Keep out of reach of children.

⚠ CAUTION! To prevent engine damage the engine is shipped without oil or gas. The engine must be filled with the correct grade of oil and gas before starting the engine.

⚠ WARNING! Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow flame or sparks in the area where the engine is refueled or where gas is stored. Avoid repeated or prolonged contact with skin or inhalation of vapour.

⚠ WARNING! Gasoline with up to 10% ethanol (gasohol) is acceptable.

- Clean the area around the gas filler cap before removing the cap. Remove the warning tag, and check the fuel level (see Fig. 7).
- Refill the tank if the fuel level is low.
- Refuel carefully to avoid overfilling or spilling fuel. To allow expansion of the fuel, don't fill above the bottom of the filler neck (see Fig. 8). There should be no fuel in the filler neck.
- Clean up any overflow or splashes of gas before starting the engine.
- Tighten the filler cap after filling: finger tight only.

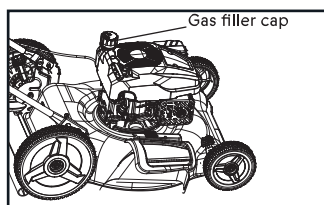


Fig. 7

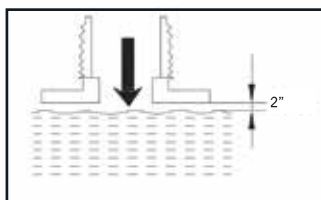


Fig. 8

ADJUSTMENT

SETTING THE CUTTING HEIGHT

As shown in Fig. 9

⚠ CAUTION! Adjust the cutting height only when the engine is switched off.

NOTE: For shipping purposes the height adjustment position may not be adjusted to the cutting position. Before operating the mower adjust cutting height to the normal cutting position.

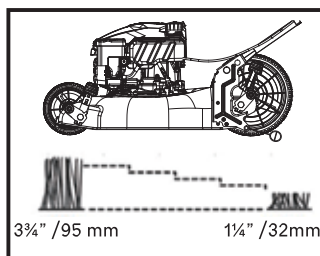


Fig.9

Adjust the cutting height to suit your requirements. The middle position is suitable for most lawns. Raise the wheels for low cut and lower the wheels for a high cut.

The cutting height is adjusted by individual wheel. To change the cutting height, squeeze the height adjustment lever toward the wheel.

Move the wheel up or down to the desired position and release the lever to lock the wheel in position. Be sure all the wheels are at the same height.

From position 1 to position 5, the cutting heights range from 1 1/4" to 3 3/4" / 32-95 mm.

SETTING REQUIRED FUNCTION

NOTE: This lawn mower has two functions. Change functions by changing the installed accessories as shown in the following chart.

To convert motor	Side discharge chute
For mulching	Removed
For side discharging	Installed

OPERATION

START AND STOP THE ENGINE.

⚠ WARNING: The blade begins to rotate as soon as the engine is started.

⚠ NOTE: Do not operate the machine in enclosed or poorly ventilated areas as the exhaust gas contains toxic substances. Keep hands, feet, hair and clothing away from the moving parts of the machine. The exhaust and other parts of the machine will become hot during use. Make sure that the blade is securely fastened before starting the engine.

⚠ NOTE: To start the engine, make sure that the spark plug cover is located on the plug and the machine is filled with sufficient oil and gas.

TO START THE ENGINE

1. When starting a cold engine, press down the primer fully 3-5 times (see Fig. 10).

⚠ WARNING! Too many presses on primer may cause engine flooding. When starting a warm engine, the primer does not need to be used. If the engine stops due to a lack of gas, refill then press the primer 3-5 times.

2. Stand behind the mower. Pull the Engine On/Off Control Bar toward upper handle with one hand and place the other hand on the starter handle.

3. Pull the starter handle out approximately 4" to 6" / 10 to 15 cm until you feel a resistance and then start the engine with a sharp pull (see Fig. 11).

⚠ NOTE: If the engine fails to start after three pulls, repeat the process.

4. Once the engine is running, put the starter rope into the rope guide (see Fig. 12).

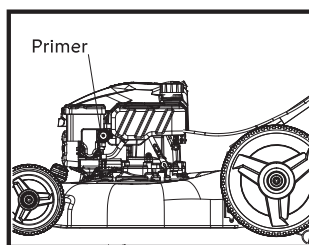


Fig. 10



Fig. 11

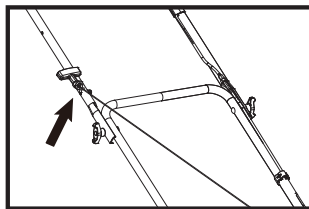


Fig. 12

TO STOP THE ENGINE

As shown in Fig. 13

Release the engine on/off control bar. It will return to its initial position and the engine will automatically switch off.

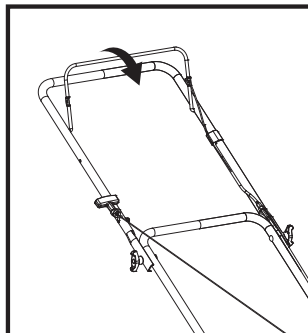


Fig. 13

TO CLEAR A FLOODED ENGINE

NOTE! If the engine won't start after you have pulled the engine start rope several times, the engine may be flooded with excess fuel. Use following procedure to clear and start a flooded engine.

1. Release the engine on/off control bar to stop engine.
2. Remove the spark plug, dry it, and then reinstall it.

- Remove the spark plug cover (Fig. 14).
- Use the spark plug socket wrench (not supplied) to remove the spark plug (Fig. 15).
- After drying, replace the spark plug.

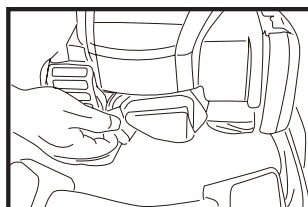


Fig. 14

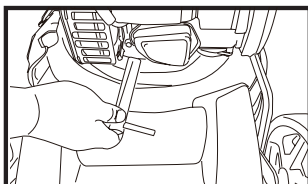


Fig. 15

NOTE! Install the spark plug carefully by hand to avoid cross-threading. After the plug is seated, tighten clockwise $\frac{1}{8}$ to $\frac{1}{4}$ turn with the spark plug socket wrench to compress the washer.

3. Pull the engine on/off control bar toward upper handle.
4. Operate the starter as described above.

MOWING

⚠ WARNING! Always observe the strictest safety procedures when using the lawn mower. Carefully read the safety instructions of this manual before using the lawn mower.

⚠ WARNING! Never open the rear chute flap when the grass bag has been detached (to be emptied) and the engine is still running. The rotating blade can cause serious injuries!

1. Select your required height and function settings.
2. Start the engine and allow it to run. See “To start the engine”.
3. Keep a firm grip on the upper handle with engine on/off control bar and push forward to start mowing.

WORKING TIPS

1. Walk, never run with the mower, and be very careful when mowing uneven or rough ground.
2. Mow across slopes, never up and down.
3. Be careful when changing the direction of the mower on a slope.
4. Do not mow excessively steep slopes.
5. The best result will be achieved if the grass is dry. Wet grass will tend to clog the blade and the grass collection system.
6. Grass grows at different rates at different times of the year. Never use the lowest cutting height for the first cut of the season or in drought conditions.
7. Only about one third of the grass height should be cut.
8. Do not cut high or wet grass when mulching to ensure that the cut grass can be scattered effectively. When you have been cutting for several minutes, stop the mower and clean the blade and the deck.
9. Do not remove grass debris in the mower casing or on the blade by hand or with your feet. Instead, use suitable tools such as a brush or broom.

MAINTENANCE AND STORAGE

⚠ WARNING! Before performing any maintenance or cleaning work, switch off the engine and wait until the blade has come to a stop.

CLEANING

GENERAL CLEANING

The lawn mower should be cleaned thoroughly every time after it has been used. Always clean your lawn mower immediately after use.

Do not allow grass cuttings and other debris to become dry and hard on any of the mower surfaces. Dried grass remnants and dirt may impair the mowing operation.

Check that the grass chute is free of any residual grass. Remove any such residue. Check the underside of the lawn mower and the blade mount. When checking, tilt the lawn mower onto its left side (opposite the oil filler neck).

⚠ NOTE: Before placing the lawn mower on its side, fully drain the fuel tank using a gasoline extraction pump.

Do not tilt the lawn mower by more than 90 degrees.

MAINTENANCE OF THE SPARK PLUG

As shown in Fig. 16

1. Once the engine has cooled, pull off the spark cover with a twist.
2. Remove the spark plug using a spark plug wrench (not supplied).
3. Clean the spark plug with a wire brush (not supplied).
4. Using a feeler gauge, set the gap to 0.6-0.7 mm.
5. Install the spark plug carefully by hand to avoid cross-threading.
6. After the spark plug is seated, tighten with the spark plug wrench to compress the washer.

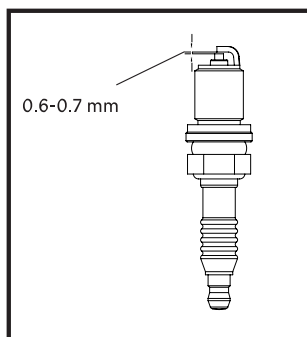


Fig. 16

MAINTENANCE OF THE AIR FILTER

As shown in Fig 17.

Soiled air filters reduce the engine output by supplying too little air to the carburetor. If the air contains a lot of dust, the air filter should be checked more frequently.

⚠ WARNING! Never run the engine without the air filter element installed.

1. Press tabs at the top of the air filter cover and tilt away from the engine to remove the cover.
2. Remove the filter cartridge.
3. To loosen debris, gently tap the filter cartridge on a hard surface. If the filter cartridge is excessively dirty, replace with a new one.

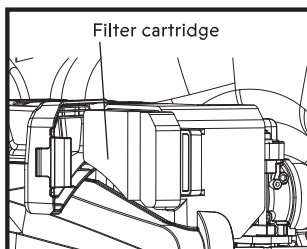


Fig. 17

⚠ NOTE: Never clean the air filter cartridge with gas or inflammable solvents. Clean the air filter cartridge only with compressed air or by tapping it.

4. Install the filter cartridge.

5. Close the cover and secure it with the screw.

CHECK AND ADD THE ENGINE OIL

The oil needs to be changed after the first 5 hours. Before each use check the oil level and add additional oil if the level is not within the Min. - Max. levels.

REPLACING THE BLADE

For safety reasons you should only ever have your blade sharpened, balanced and mounted by an authorized service workshop. For optimum results, it is recommended that the blade be inspected once a year.

⚠ WARNING: Before you remove the grass collection bag, stop the engine and wait until the blade stops completely.

⚠ WARNING: You will need garden gloves (not provided) and a wrench (not provided) to remove the blade.

⚠ NOTE: Don't invert the mower. Tip it slightly towards the oil filler pipe and reach under the deck.

⚠ WARNING: Always handle the blade with care; sharp edges could cause injury. USE GLOVES. Replace your metal blade after 50 hours mowing or 2 years, whichever is sooner, regardless of condition.

⚠ WARNING: If the blade is cracked or damaged, replace it with a new one.

⚠ WARNING: Don't hold the blade by hand directly.

⚠ NOTE: Maintain the sharpness of the blade when cutting grass. If the blade has worn excessively and become pitted and blunt, it should be replaced or sharpened. The sharpness of the blade will affect the performance of the lawn mower.

For safety reasons we recommend that the blade only be changed by someone qualified and authorized to do so.

Hold the blade and unscrew the blade bolt counterclockwise using a wrench. Remove the washer and the blade.

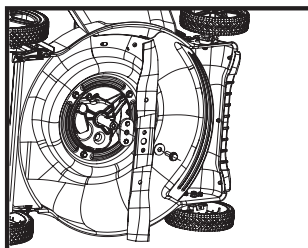


Fig. 18

Fit a new blade or resharpen the blade. Place the blade on the two studs on the blade flange with angled ends pointing up in the direction of the engine and then replace the washer and bolts. Make sure the blade is correctly located, and then firmly tighten the bolt with a torque of 33-44 ft lbs (45-60 Nm). Do not overtighten. The up turn of the blade must project into the motor compartment.

STORING THE LAWN MOWER FOR SHORT PERIODS

The lawn mower can be stored for short periods of time (less than 15 days) without performing any storage maintenance. Before placing the lawn mower into storage always do the following:

1. Allow the engine to fully cool.
2. Ensure the grass bag is empty.
3. Clean all debris from under the mower deck.
4. Store the lawn mower on a flat and level surface with the mower upright.
5. Store in a safe place which is not accessible by children or people who are not familiar with the lawn mower's operation.

STORING THE LAWN MOWER FOR EXTENDED PERIODS

If the lawn mower is to be placed into storage for more than 15 days, storage maintenance must be performed on the lawn mower. If the following steps are not carried out, when you next operate the lawn mower it may not start correctly and may need to be serviced.

⚠ CAUTION! Do not empty the gas tank in enclosed areas, near fire or when smoking. Gas fumes can cause explosions and fire.

1. Empty the gas tank with a gas suction pump if available.
2. Start the engine and let it run until any remaining gas has been used up.
3. Clean the cooling fins of the cylinder and the housing.
4. Be sure to clean the entire machine to protect the paint.
5. Store the machine in a well-ventilated place.

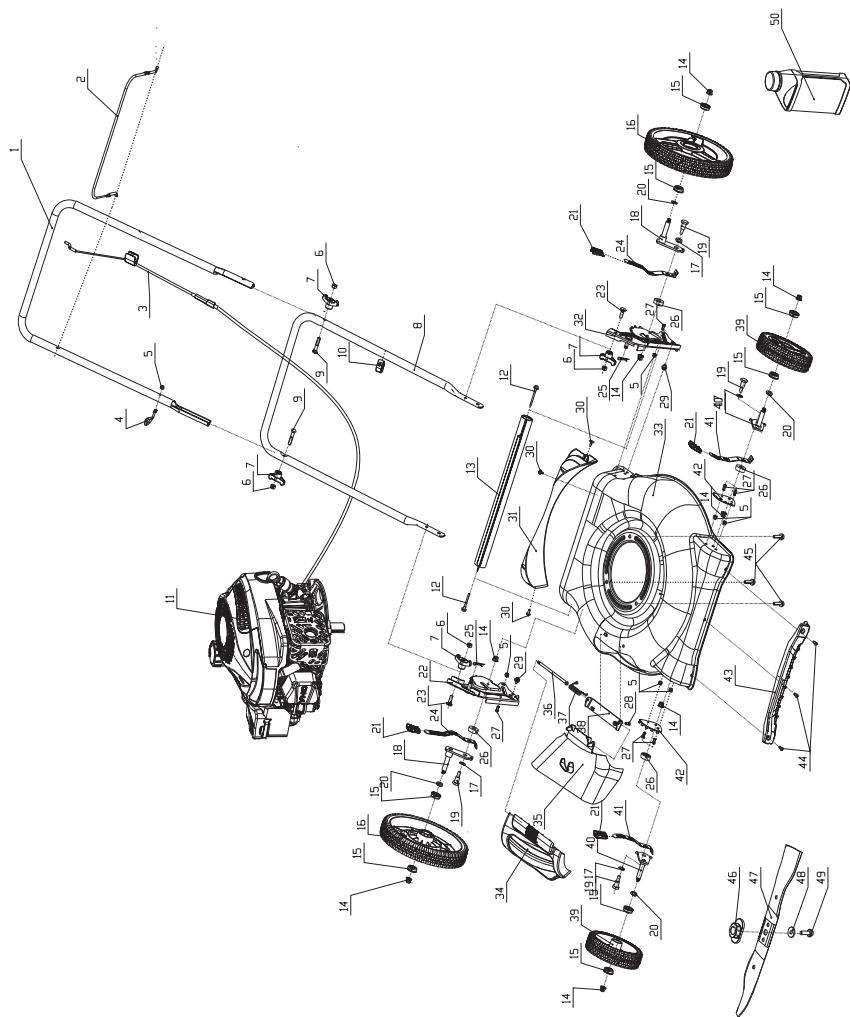
MAINTENANCE SCHEDULE

Performing routine maintenance correctly on your lawn mower will ensure you get years of trouble-free use. Please keep this manual safe for future reference. It is recommended that the following maintenance schedule is adhered to. This will ensure the lawn mower operates correctly and is safe to use. Change engine oil after the first 5 hours.

	12 Hours of use	24 Hours of use	36 Hours of use
Air filter	Clean	Clean	Clean
Spark plug	Check	Clean	Clean
Engine oil	Check	Check	Check

Number	Part sku	Part Name	Quantity
35	1054644001	Side discharge chute	1
36	1253503001	Side discharge shaft	1
37	1350435001	Side discharge torsion spring	1
38	1253502001	Side discharge bracket	1
39	1055285001	178mm PVC coated wheel	2
40	1002837001	Front wheel shaft assembly	2
41	1253494001	Front height-adjusting lever	2
42	1253512001	Hi-adjusting board	2
43	1054643001	Comb board	1
44	2601071002	Cross recessed pan head tapping screw M5x12	3
45	2600114001	Hexagon flange bolts, heavy series M8x30	3
46	1200192001	Blade adapter	1
47	1253198001	Blade	1
48	1253513001	Heavy cone washer	1
49	1250909001	Cutting blade mounting bolt 3/8-24UNF	1
50	0440096001	Engine oil bucket	1
A01	1002835003	Upper handle assembly (without rope guide)	1
A02	1003022002	Knob assembly 1	2
A03	1003027002	Knob assembly 2	2
A04	1003610001	280 mm PVC coated wheel assembly	2
A05	1003611001	178 mm PVC coated wheel assembly	2
A06	1003025001	Blade assembly	1
Engine			
1	1848ZD0001	Crankcase subassembly	1
2	1848ZD0002	Oil seal	1
3	1848ZD0003	Oil seal	1
4	1848ZD0004	Screw	1
5	1848ZD0005	Breath piece	1
6	1848ZD0006	Breath piece plate	1
7	1848ZD0007	Bolt	7
8	1848ZD0008	Breath groove cover plate	1
9	1848ZD0009	Governor arm	1
10	1848ZD0010	Pin	1
11	1848ZD0011	Flat washer	1
12	1848ZD0012	Governor rod	1
13	1848ZD0013	Governor support bolt	1
14	1848ZD0014	Nut	3
15	1848ZD0015	Governor support subassembly	1
16	1848ZD0016	Governor spring	1
17	1848ZD0017	Crankcase side shield	1
18	1848ZD0018	Returning oil block	1
19	1848ZD0019	Throttle control plate subassembly	1

EXPLODED PARTS



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 lawn mower.

Any attempt to repair or replace parts on this lawn mower 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 to 5pm, Eastern Standard Time.

Number	Part sku	Part Name	Quantity
1	1253509000	Upper handle	1
2	1253510000	Blade control lever	1
3	1002860001	Control cable	1
4	1250470001	Rope guide	1
5	2600172001	Self-lock nut with flange M6	7
6	2600127001	Nut M8	4
7	1054771001	Knob	4
8	1253493001	Lower handle	1
9	2601029001	Bolt M8x43	2
10	1054771001	Cable clip	1
11	1003606001	SE145 engine	1
12	1253533001	Dust proof cover screw	2
13	1054647001	Dust proof cover	1
14	2600173001	Self-lock nut with flange M8	8
15	1250310001	Bearing	8
16	1055286001	280 mm PVC coated wheel	2
17	1250908001	Wave spring washer 13	4
18	1002836001	Rear wheel shaft assembly	2
19	1253511001	Wheel shaft bolt	4
20	2600458001	Wave spring washer 12	4
21	1054646003	Height-adjusting handle	4
22	1002834001	Right handle bracket	1
23	2601030001	Small semicircular head and low square neck bolt M8x25	2
24	1350436001	Rear height-adjusting lever	2
25	1253558001	Shaft clip	2
26	1054651001	Height-adjusting partition sleeve	4
27	2601286001	Hexagonal flat round head screw M6x16	6
28	2600210000	Hexagonal flat round head screw M6x12	1
29	2800073001	Self-lock screw with flange M6x10	2
30	2600721001	Screw and plain washer combination ST4.8x16cz	3
31	1054642001	Rear housing	1
32	1002859001	Left handle bracket	1
33	1002833003	Deck assembly	1
34	1054645001	Side discharge cover	1

Number	Part sku	Part Name	Quantity
20	1848ZD0020	Oil dipstick subassembly	1
21	1848ZD0021	Crankcase cover	1
22	1848ZD0022	Oil seal	1
23	1848ZD0023	Bolt	7
24	1848ZD0024	Governor gear assembly	1
25	1848ZD0025	Bolt	1
26	1848ZD0026	Pin	2
27	1848ZD0027	Valve tappet	2
28	1848ZD0028	Valve lifter	2
29	1848ZD0029	Cylinder head gasket	1
30	1848ZD0030	Cylinder head subassembly	1
31	1848ZD0031	Bolt	4
32	1848ZD0032	Spark plug	1
33	1848ZD0033	Seal guide	1
34	1848ZD0034	Valves set	1
35	1848ZD0035	Valve spring	2
36	1848ZD0036	Valve spring seat	2
37	1848ZD0037	Valve rocker subassembly	2
38	1848ZD0038	Valve rocker shaft	1
39	1848ZD0039	Cylinder head cover	1
40	1848ZD0040	Crankshaft assembly	1
41	1848ZD0041	Timing drive gear	1
42	1848ZD0042	Flat washer	1
43	1848ZD0043	Camshaft assembly	1
44	1848ZD0044	Piston pin clip	2
45	1848ZD0045	Piston pin	1
46	1848ZD0046	Connecting rod	1
47	1848ZD0047	Piston	1
48	1848ZD0048	Piston ring assembly	1
49	1848ZD0049	Bolt	3
50	1848ZD0050	Engine housing	1
51	1848ZD0051	Recoil starter assembly	1
52	1848ZD0052	Bolt	7
53	1848ZD0053	Stud	2
54	1848ZD0054	Inlet gasket	1
55	1848ZD0055	Carburetor insulator plate	1
56	1848ZD0056	Insulator plate gasket	1
57	1848ZD0057	Carburetor assembly	1
58	1848ZD0058	Clamp	2
59	1848ZD0059	Fuel tube	1
60	1848ZD0060	Clamp	2
61	1848ZD0061	Starting riched valve tube	1

TRANSPORTING THE LAWN MOWER

Empty the gas tank. Always let the engine run until it has used up the remainder of gas in the tank.

Empty the engine oil from the warm engine. Remove the spark plug cover from the spark plug. Clean the cooling fins of the cylinder and the housing. Use the original packaging to ship whenever possible.

TROUBLESHOOTING

⚠ WARNING: Before performing any maintenance or cleaning work, switch off the engine and wait until the blade has come to a stop.

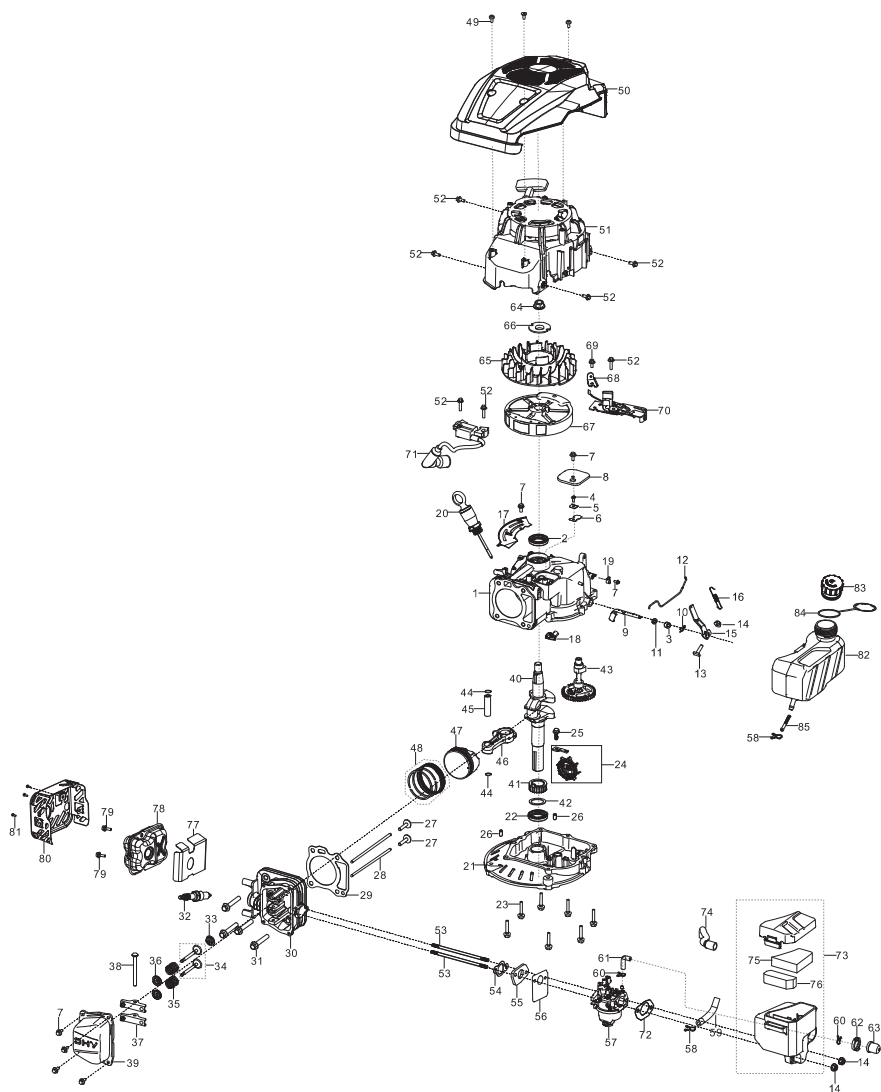
⚠ CAUTION! Improper repairs can result in the product functioning unsafely. This endangers yourself and your environment.

Faults which cannot be rectified with the aid of following table may be rectified by customer service centre or a qualified repair person.

Please be aware that any improper repairs will also invalidate the warranty and additional costs may be incurred.

Use only genuine spare parts. Only these spare parts are designed and suitable for the product. The use of other spare parts not only voids the warranty, you can also endanger yourself and your environment.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Loud while running: machine vibrates heavily.	Screws are loose. Blade fasteners are loose. Blade is unbalanced.	Tighten screws. Tighten blade fasteners. Replace blade.
Engine does not start.	Start/stop lever not pressed. Spark plug is defective. Cutting blade is worn or damaged. Fuel tank is empty. Engine may be flooded.	Press start/stop lever. Replace spark plug. Replace it through the customer service centre. Refill with fuel. Remove plug and dry.
Engine runs unsteadily.	Air filter is soiled. Spark plug is soiled.	Clean the air filter. Clean the spark plug.
Uneven moving results.	Blade is blunt. Cutting height is too low.	Sharpen the blade. Set correct height.



WARRANTY

RADLEY 2 IN 1 LAWN MOWER WARRANTY

If this Radley tool fails due to a defect in material or workmanship within three years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. This warranty does not include expendable parts including but not limited to blades, brushes, belts, light bulbs and/or batteries. 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. For use at the consumer level. The warranty is not for industrial or commercial applications.

144cc Lawn Mower

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.

MADE IN CHINA / FABRIQUÉ EN CHINE
HOME HARDWARE STORES LIMITED
ST. JACOBS, ONTARIO N0B 2N0
ORDER ONLINE / COMMANDE EN LIGNE
homehardware.ca

© 10 / 2020 Home Hardware Stores Limited



5124-022

Number	Part sku	Part Name	Quantity
62	1848ZD0062	Starting riched valve seat	1
63	1848ZD0063	Starting riched valve body	1
64	1848ZD0064	Flywheel nut	1
65	1848ZD0065	Impeller	1
66	1848ZD0066	Starter cup seat	1
67	1848ZD0067	Flywheel subassembly	1
68	1848ZD0068	Shroud lug	1
69	1848ZD0069	Bolt	1
70	1848ZD0070	Brake assembly	1
71	1848ZD0071	Ignition coil	1
72	1848ZD0072	Air cleaner gasket	1
73	1848ZD0073	Air cleaner	1
74	1848ZD0074	Breather tube	1
75	1848ZD0075	Air cleaner element 2	1
76	1848ZD0076	Air cleaner element	1
77	1848ZD0077	Muffler insulator plate	1
78	1848ZD0078	Muffler assembly	1
79	1848ZD0079	Bolt	2
80	1848ZD0080	Muffler outer cover	1
81	1848ZD0081	Bolt	3
82	1848ZD0082	Fuel tank assembly	1
83	1848ZD0083	Fuel tank cover	1
84	1848ZD0084	Fuel tank cover chain proof off	1
85	1848ZD0085	Fuel strainer	1