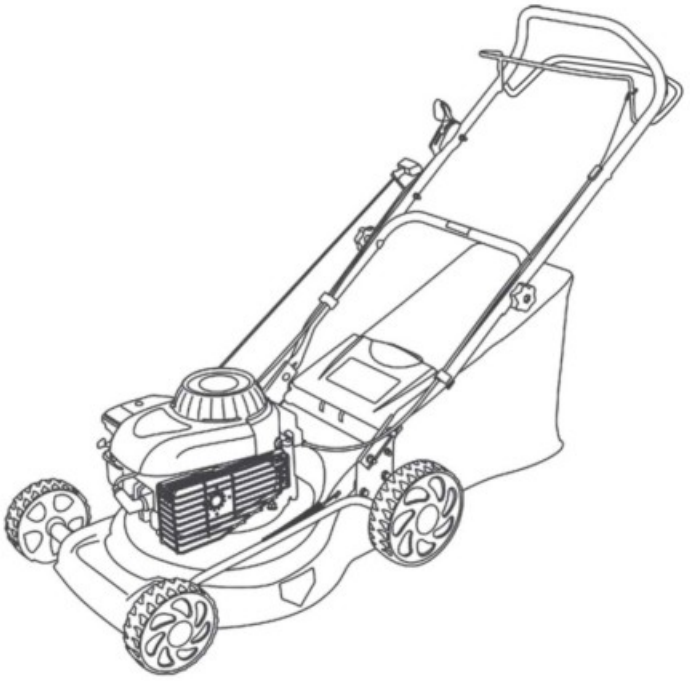
DPK434LWM



SAFETY AND OPERATING MANUAL

Original Instructions

148CC PETROL LAWN MOWER DPK434LWM

Congratulations on your purchase of a new Lawnmower. We want you to continue getting the best performance from it so this handbook includes information on safety, handling and care. Please retain this handbook in case you need to refer to any of the information in the future.

Your Lawnmower comes with a 24 months guarantee, so should it develop a fault within this period contact your retailer.

GUARANTEE

This product carries a guarantee of 24 months. If your product develops a fault within this period, you should, in the first instance contact the retailer where the item was purchased.

This guarantee specifically excludes losses caused due to:

- Fair wear and tear
- Misuse or abuse
- Lack of routine maintenance
- Failure of consumable items (such as batteries)
- Accidental damage
- Cosmetic damage
- Failure to follow manufacturer's guidelines
- Loss of use of the goods

This guarantee does not affect your statutory rights. This guarantee is only valid in the UK.

For any enquiries relating to the guarantee please refer to your retailer.

SAFETY INSTRUCTIONS

WARNING! Read this instruction carefully before operating this lawn mower. Make sure that you are familiar with the controls and properly operate the machine. Following this instructions, you can reduce the risk of fire, electric shock and personal injury.

GENERAL SAFETY INSTRUCTIONS

1. This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety.

2. Children should be supervised to ensure that they do not play with the product.

Training

1. Read the instructions carefully. Be familiar with the controls and the proper use of the product.
2. Never allow children or people unfamiliar with these instructions to use the product. Local regulations can restrict the age of the operator.
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.

Preparation

1. While mowing, always wear substantial footwear and long trousers. Do not operate the product when barefoot or wearing open sandals.
2. Thoroughly inspect the area where the product is to be used and remove all objects which can be thrown by the product.

3. WARNING - Petrol is highly flammable.
   -- Store fuel in containers specifically designed for this purpose.
   -- Refuel outdoors only and do not smoke while refuelling.
   -- Add fuel before starting the engine. Never remove the cap of the fuel tank or add petrol while the engine is running or when the engine is hot.
   -- If petrol is spilled, do not attempt to start the engine but move the product away from the area of spillage and avoid creating any source of ignition until petrol vapours have dissipated.

4.Replace all fuel tank and container caps securely.

5.Replace faulty silencers.

6.Before using, always visually inspect to see that the cutting devices, cutting device bolts and cutter assembly are not worn or damaged. Replace worn or damaged cutting devices and bolts in sets to preserve balance.

7.On multi-bladed machines, take care as rotating one cutting device can cause other cutting devices to rotate.

8.CAUTION! Do not touch rotating cutting device.

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 product in wet grass, where feasible.

4.Always be sure of your footing on slopes.

5.Walk, never run.

6.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.

9.Use extreme caution when reversing or pulling the product towards you.

10.Stop the cutting device(s) if the product has to be tilted for transportation when crossing surfaces other than grass, and when transporting the product to and from the area to be mowed.

11.Never operate the product 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 overspeed the engine.

13.Disengage all cutting device 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 cutting device(s).

15.Do not tilt the product when starting the engine or switching on the engine, except if the product 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 product while the engine is running.

19.Stop the engine and disconnect the spark plug wire, make 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 product,
-- after striking a foreign object. Inspect the product for damage and make repairs before restarting and operating the product,
-- if the product starts to vibrate abnormally (check immediately).

20.Stop the engine and disconnect the spark plug wire, make sure that all moving parts have come to a complete stop and, where a key is fitted remove the key:
-- whenever you leave the product,
-- before refuelling.

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.Never touch the exhaust, exhaust guard or cooling fins when the engine is hot.

24.Never carelessly touch the product, you can burn yourself. While the product is in operation or shortly thereafter, its parts such as the exhaust pipe, engine, and other surfaces are extremely hot! Pay attention to the markings on the product.

25.Make sure that the air intake of the combustion engine is clear. Keep the air intake free of dust, dirt particles, gases and fumes.

26.Keep hands and feet away from the cutting device at all times and especially when switching on the engine.

Maintenance and storage
1.Keep all nuts, bolts and screws tight to be sure the product is in safe working condition.

2.Never store the product with petrol 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, silencer and petrol 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.

8.Wear strong work gloves when removing and re-assembling the cutting device.

9.Always replace worn or faulty parts with the genuine parts.

Additional safety warnings for fuel handling

1. Always disconnect the spark plug connector and let the product cool down, before refuelling it. Petrol is easily flammable. Never smoke when you are refuelling the product. Do not refuel the product, if there is an open fire in the vicinity!

2. Always use suitable aids such as funnels and filler necks. Do not spill any fuel on the product or its exhaust system. There is a risk of ignition. Remove spilled fuel carefully from all parts of the product. Any residue which may be present must have completely volatilised, before the product is put into operation!

3.Never use the product in environments where there is a risk of explosion. Exhaust gases and fuel fumes are noxious. Fuel fumes can ignite.

4.Never breathe in any fuel fumes, when you are refuelling the product. Never fill the tank in enclosed spaces, such as basements or sheds. There is a risk of poisoning and explosion!

5.Avoid skin contact with petrol.

6.Do not eat or drink, while you are refuelling the product. If you have swallowed petrol or oil, or if petrol or oil has got into your eyes, then seek the advice of a doctor immediately.

7.Close the tank lid immediately after filling the tank. Make sure that it is properly closed.

8.Never use the product without an air filter.

Vibration and noise reduction
To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment.
Take the following points into account to minimize the vibration and noise exposure risks:

1.Only use the product as intended by its design and these instructions.

2.Ensure that the product is in good condition and well maintained.

3.Use correct application tools for the product and ensure they in good condition.

4.Keep tight grip on the handles/grip surface.

5.Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).

6.Plan your work schedule to spread any high vibration tool use across a number of days.

Emergency
Familiarise yourself with the use of this product by means of this instruction manual. Memorise the safety directions and follow them to the letter. This will help to prevent risks and hazards.

1.Always be alert when using this product, so that you can recognise and handle risks early. Fast intervention can prevent serious injury and damage to property.

2.Stop the engine and unplug the spark plug connector if there are malfunctions. Have the garden power tool checked by a qualified professional and repaired, if necessary, before you operate it again.

3.In case of fire stop the engine and unplug the spark plug connector. Take fire-extinguishing measures immediately if the garden power tool switch is no longer accessible.

WARNING! Never use water to extinguish a garden power tool on fire. Burning fuel must be extinguished with special extinguishing agents. We recommend that you keep a suitable fire extinguisher within reach in your work area!

Residual risks
Even if you are operating this product in accordance with all the safety requirements, potential risks of injury and damage remain. The following dangers can arise in connection with the structure and design of this product:

1.Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.

2.Injuries and damage to property due to broken application tools or the sudden impact of hidden objects during use.

3.Danger of injury and property damage caused by flying objects.

WARNING! This product produces an electromagnetic field during operation! This field may under some circumstances interfere with active or passive medical implants! To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their doctor and the medical implant manufacturer before operating this product!

VIBRATION

The European Physical Agents (Vibration) Directive has been brought in to help reduce hand arm vibration syndrome injuries to power tool users. The directive requires power tool manufacturers and suppliers to provide indicative vibration test results to enable users to make informed decisions as to the period of time a power tool can be used safely on a daily basis and the choice of tool.
Further Advice can be found at www.hse.gov.uk

Vibration total values (triax vector sum) determined according to EN836:	
Vibration level for operation	Vibration emission value ah = 5.425 m/s²
	Uncertainty K = 1.5 m/s²

The declared vibration emission value should be used as a minimum level and should be used with the current guidance on vibration.
Calculating the actual period of the actual period off use can be difficult and the HSE website has further information.
The declared vibration emission been measured in accordance with a standard listed test stated above and may be used to compare one tool with another. The declared vibration emission value may also be used in a preliminary assessment of exposure.

WARNING! The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used dependant on the following examples and other variations on how the tool is used:
How the tool is used and the materials being ground or cut.
The tool being in good condition and well maintained.
The use the correct accessory for the tool and ensuring it is sharp and in good condition.
The tightness of the grip on the handles.
And the tool is being used as intended by its design and these instructions.

This tool may cause hand-arm vibration syndrome if its use is not adequately managed.

WARNING! identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time). Note The use of other tools will reduce the users' total working period on this tool.

Helping to minimise your vibration exposure risk.
Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate).
Avoid using tools in temperatures of 10°C or less.
Plan your work schedule to spread any high vibration tool use across a number of days. Health Surveillance.

Health Surveillance.
All employees should be part of an employer's health surveillance scheme to help identity any vibration related diseases at an early stage, prevent disease progression and help employees stay in work.

Double insulation:
The tool is double insulated. This means that all the external metal parts are electrically insulated from the mains power supply. This is done by placing insulation barriers between the electrical and mechanical components making it unnecessary for the tool to be earthed.

Important note:
Be sure the supply is the same as the voltage given on the rating plate. The tool is fitted with a two-core cable and plug. Remove the mains plug from socket before carrying out any adjustment or servicing.

SYMBOLS

Caution / Warning.

Read the instruction manual

Wear hearing protection.

Wear eye protection.

Wear respiratory protection.

Wear protective gloves.

Wear safety footwear.

Wear tight-fitted protective clothes.

Naked flames in the work area, around the product and in the vicinity of flammable materials are prohibited!

Do not smoke in the work area, around the product and in the vicinity of flammable materials!

Risk of fire / flammable materials

Hot surface, do not touch. High temperatures on the product's surfaces and structural parts that could cause burns, if they are touched. The product can also stay hot for a longer period of time after operation!

This product produces noxious exhaust fumes. If the product is used improperly, these fumes can lead to poisoning, a loss of consciousness or death!

Add Fuel

Add engine oil

Switch the engine off while you are refilling the tank!

Warning! Switch the product off and disconnect the spark plug connector before assembly, cleaning, adjustments, maintenance, storage and transportation.

Do not use in rain or wet conditions.

Mow across the face of slopes, never up and down.

Inspect the area where the product is to be used and remove all objects which can be thrown by the product. If objects are hidden while operating stop the engine and remove the object.

Keep hands and feet away from sharp rotating parts – danger of injury! When cleaning, repairing, or inspecting, make certain the cutting device and all mowing parts have stopped. Disconnect the spark plug cap, and keep the cap away from the plug to prevent accidental starting.

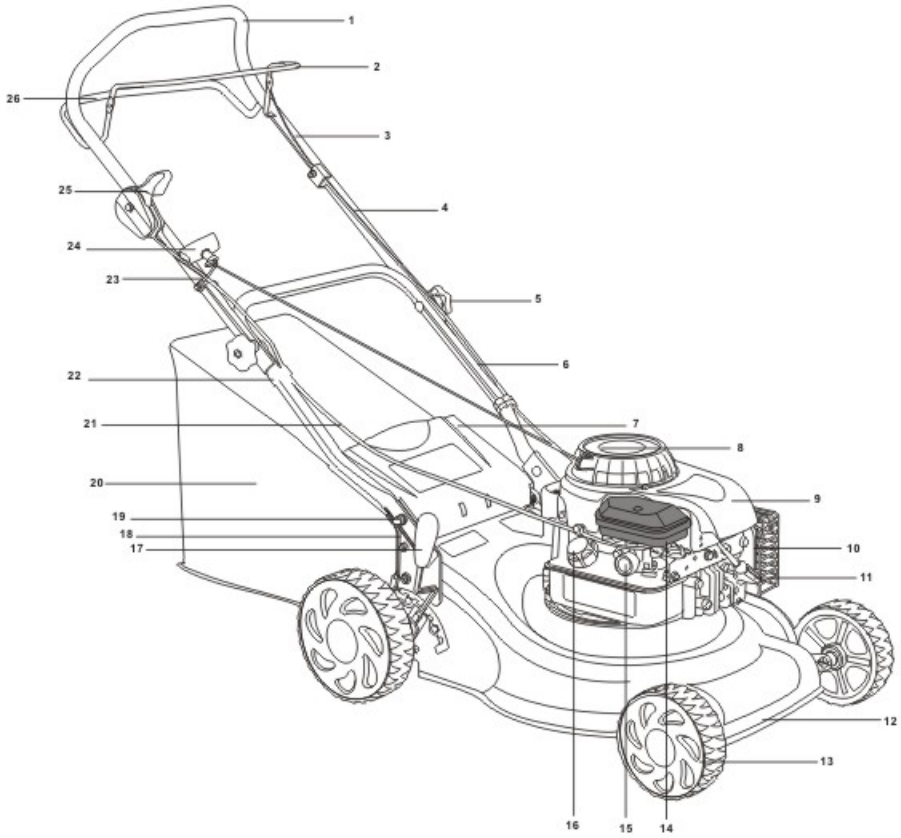
Cutting device continues to rotate after the product is switched off. Wait until all machine components have completely stopped before touching the product.

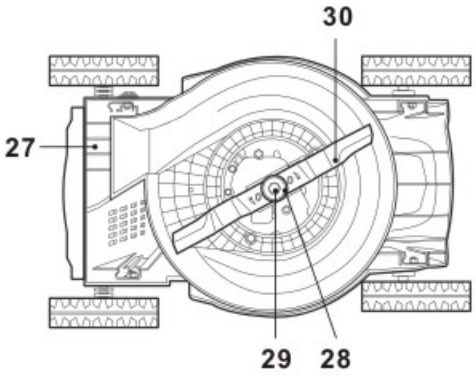
Pay special attention when working on the cutting device!

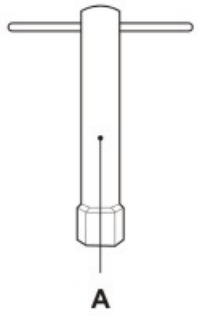
Objects thrown by the product could hit the user or other bystanders. Always ensure that other people and pets remain at a safe distance from the product when it is in operation. In general, children must not come near the area where the product is.

Guaranteed sound power level

Conforms all relevant safety standards







1. Operation handle
2. Starting bail arm lever
3. Brake wire
4. Upper handle
5. Fixation knob
6. Lower handle
7. Deflector guard
8. Engine oil tank cap
9. Engine
10. Silencer
11. Spark plug connector
12. Deck
13. Wheel
14. Air filter case
15. Primer
16. Fuel tank cap
17. Cutting height adjustment lever
18. Handle support
19. Mounting set
    - 19a. Bolt
    - 19b. Washer
    - 19c. Spring washer
    - 19d. Cap nut
20. Grass catcher
21. Driving wire
22. Wire clip
23. Rope Guide
24. Recoil starter
25. Throttle lever
26. Drive bar
27. Discharge chute
28. Locking flange
29. Hex bolt
30. Cutting device (blade)

TECHNICAL DATA

Engine model	B&S 450series
Engine type	4-stroke, single cylinder, air cooled
Engine displacement	148cc
Engine power	2.2 kW
Engine speed	2800/min
Fuel tank volume	0.8 L
Engine oil tank volume	0.6 L
Engine oil type	4-cycle engine oil, SAE10W-30
Max. cutting width	410 mm
Cutting height	30-75 mm, 7 steps
Grass catcher volume	50L
Spark plug type	CHAMPION
Net weight	28 kg

NOISE AND VIBRATION DATA

Measured sound pressure level	83.3 dB(A), K=3 dB (A)
Measured sound power level	93.5 dB(A), K=3 dB (A)
Guaranteed sound power level	96 dB(A)
Vibration	4.46 m/s^2, K=1.5m/s^2

The sound intensity level for the operator may exceed 85dB(A) and ear protection measures are necessary.
The declared vibration value has been measured in accordance with a standard test method and may be used for comparing one tool with another.
The declared vibration value may also be used in a preliminary assessment of exposure.

WARNING! The vibration emission value during actual use of the tool can differ from the declared value depending on the ways in which the tool is used. Identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

ACCESSORIES

Grass collection bag	**1PC**
Engine manual	**1PC**
Spark plug wrench	**1PC**

OPERATION INSTRUCTIONS

WARNING! Read all instructions carefully. Do not connect the spark plug before it is completely assembled. Always use glove s during assembly.

1. INTENED USE

1). This petrol lawnmower DPK433LWM is designated with an output of max. 2.2 kW.
2). The product is intended for mowing grass in domestic gardens only. It must not be used to mow unusually high, dry or wet grass, e.g. pasture grass; for shredding leaves and is also not intended for mulching.
3). This product is intended for private domestic use only, not for any commercial trade use. It must not be used for any purposes other than those described.

2. UNPACK

1). Unpack all parts and lay them on a flat, stable surface.
2). Remove all packing materials and shipping devices if applicable.
3). Make sure the delivery contents are complete and free of any damage. If you find that parts are missing or show damage do not use the product but contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.
4). Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.

3. ASSEMBLY INSTRUCTIONS

1). HANDLE BAR ASSEMBLY

Disconnect the spark plug connector from the spark plug.
a). Loosen the mounting sets from the handle supports and keep them handy.
b). Align the lower handles (6) with the handle support. Make sure the holes in the lower handles are aligned with those in the support. (See Fig.1a)

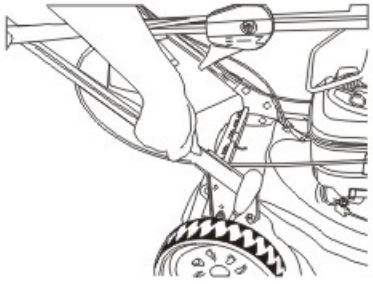


Fig.1a

c). Fix the lower handles with the mounting sets and tighten the nuts with a wrench. (See Fig.1b)

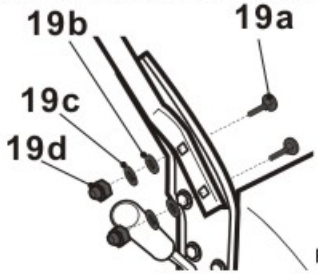


Fig.1b

d). Unfold the handle and tighten the fixation knobs (5) to fix it. (See Fig.1c)

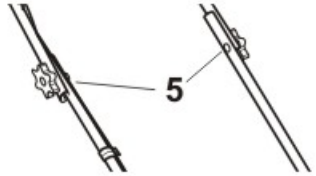


Fig.1c

e). Fix the wires with the wire clip (22) onto the lower handle (6). (See Fig.1d)

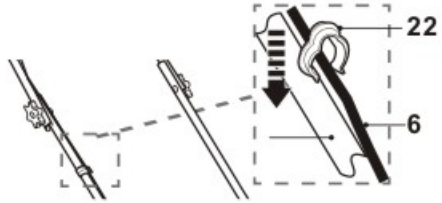


Fig.1d

2). GRASS CATCHER BAR ASSEMBLY

WARNING! Do not attempt to use the product without the grass catcher attached, danger of flying objects!
NOTE: A full grass catcher will reduce the performance of this product. Attach the grass catcher to the product before operation.

a). Open the deflector guard (7), hold it in position and align the hooks on the grass catcher (20) with the rod to hang it onto it. (See Fig.2)

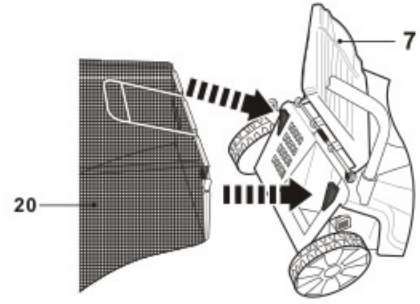


Fig.2

b). Empty the grass catcher frequently during use. Do not wait until it is completely full. We recommend emptying it when it is half full.
c). Lift the deflector guard and remove the grass catcher off the rod.
d). Empty the grass clippings onto a compost heap and reattach the grass catcher onto the product.

4. FILL FUEL AND ENGINE OIL

WARNING! Fuel and oil are highly inflammable! Fumes will explode if lit! Ensure that there are no naked flames around the product! Do not smoke while filling fuel and oil!

This product is equipped with a 4-stroke engine, the fuel and oil tank are separated. Those tanks are not supplied with fuel and oil. Before operating this product it is essential to fill the tanks with suitable fuel and engine oil (see technical specification).

Place the product on a stable, level surface. We recommend laying a non-flammable sheet under the product.

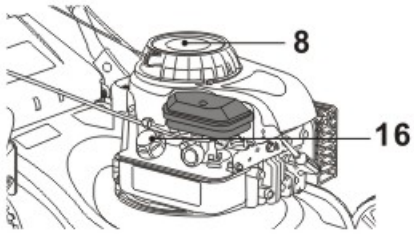
Never mix oil with petrol. Avoid getting dirt, dust or water in the tanks. Use a funnel fitted with a filter to avoid debris entering the tanks.

Avoid spilling and overfilling the tanks.

Always dispose of fuel, used oil and soiled objects according to local regulations (see recycling and disposal).

1). FILL FUEL

a). Always use clean, fresh unleaded petrol. Purchase fuel in quantities that can be used within 30 days.
b). Unscrew and remove the fuel tank cap (16). (See Fig.3a)



c). Only use correct fuel. Do not overfill. Leave a minimum 5mm of space between the top of the fuel and the inside edge of the tank to allow for expansion. (See Fig.3b)

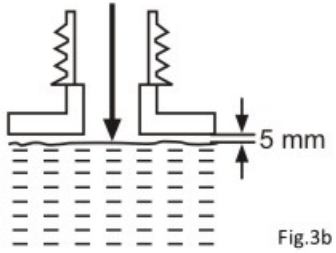


Fig.3b

d). Wipe any spilled fuel with a soft cloth and reattach the fuel tank cap.

NOTE: Petrol deteriorates over time. It may be difficult to start the engine if you use petrol which has been kept for more than 30 days.
Towards the end of the season, it is advisable to put only as much fuel in the tank as you need for each mowing of the lawn, since it should be completely used up before storing the product.
Empty remaining fuel from the tank when storing the device for over 30 days

2). FILL ENGINE OIL

WARNING! Always use high quality 4-stroke engine oil. Never use additives with recommended oil (see section "Technical specification"! Using non-detergent oil or 2-stroke engine oil could shorten the engine's service life!

a). Unscrew and remove the engine oil tank cap (8). (See Fig.3a)
b). Gradually add a 4-stroke engine oil, allowing it to settle.
c). Check the oil level frequently while filling. Wipe the oil dipstick clean; refit and tighten the oil tank cap and then remove it again. The oil level must be between the "**ADD**" and "**FULL**" markings. Add more oil if necessary. (See Fig.3c)

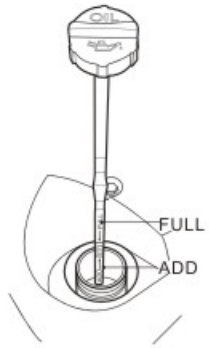


Fig.3c

d). Wipe spilled oil with a soft cloth and reattach the oil tank cap.

5. ADJUST CUTTING HEIGHT

WARNING! Ensure that the lever is engaged between two of the prongs! Never adjust to any other intermediate position!

Adjust the cutting height according to the height to fit the needs of your lawn. The cutting height depends on the kind of lawn and its actual height. When mowing high grass, start with the maximum cutting height and make a second round with lower cutting height.
Pull the adjustable lever (17) towards the wheel, then move it forward or backward to adjust the cutting height. (See Fig.4)

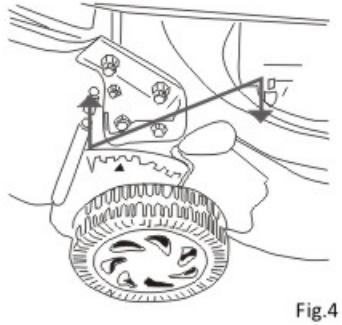


Fig.4

6. ROPE GUIDE

1). The recoil starter (24) is held by the rope guide (23) on the right hand side of the upper handle (4).
2). Pull on the recoil starter handle (24) to start the engine. (See Fig.5)

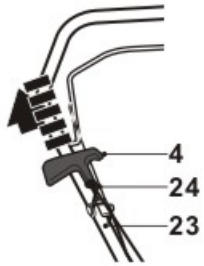


Fig.5

7. THROTTLE LEVEL

1). The throttle lever (25) is located on right hand side of the upper handle (4). It is used to control the engine speed. . (See Fig.6a, 6b)
2). Move the throttle lever towards the “HARE” symbol will increase the speed.
3). Move the throttle lever towards the “TURTLE” symbol will decrease the speed.

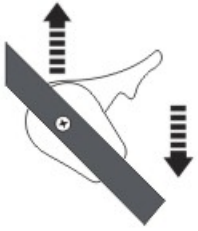


Fig.6a

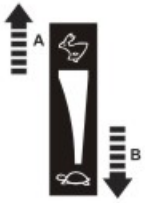


Fig.6b

8. DRIVE BAR (SELF-PROPELLED FUNCTION)

Use the self-propelled function as assistance during operation; the rear wheels are automatically driven by the motor; you do not need to push the product manually.

1. Press the drive bar **(26)** towards the operation handle **(1)** to engage the wheels.
2. Release the drive bar **(26)** to disengage the wheels.

9. PRIMER

Press the primer (15) with three times when starting the product with a cold engine.
Do not press the primer for the warm start.

10. STARTING / STOPPING

1). Starting

WARNING! Allow the rope to return slowly and in a controlled manner after each pull!

a). If the engine is cold, press the primer (15) three times. If the engine is warm do not prime.

b). Move the throttle lever (25) to the “HARE” symbol.

c). Pull the starting bail arm lever (2) against the operation handle (1) and hold it in position when starting the engine. Keep it pulled during operation.

d). Pull the recoil starter handle (24) briskly one or more times until the engine starts.

2). Stopping

Release the starting bail arm lever (2) to stop the mower.

11. GENERAL OPERATION

WARNING! If the product strikes a foreign object stop the engine! Disconnect the spark plug connector, let the product cool down and thoroughly inspect the product for damage. Have any damage repaired before restarting!
WARNING! Extensive vibration of the product during operation is an indication of damage! The product should be promptly inspected and repaired!

1). Check the product, as well as accessories for damage before each use. Do not use the product if it is damaged or shows wear.

2). Double check that accessories are properly fixed.

3). Check the fuel and engine oil level, refill if necessary.

4). Push the product forward by its handle. Use the self-propelling function if required. Keep the handle dry to ensure safe support.

5). Ensure that the air vents are always unobstructed and clear. Clean them if necessary with a soft brush. Blocked air vents may lead to overheating and damage the product.

6). Switch the product off immediately if you are disturbed while working by other people entering the working area. Always let the product come to complete stop before averting.

7). Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the product.

8). Make sure that the lawn is clear of stones, sticks, wire or other objects that could damage the product or its engine.

9). Do not cut wet grass because it tends to stick to the underbody of the product, preventing the proper discharge of grass clippings, and it could also cause you to slip and fall.

10). Never cut off more than one-third of the total length of the grass for a healthy lawn. In the autumn, lawns should only be cut as long as there is growth.

11). Slowly push the product forward. You may want to use the self-propelled function for assistance.

12). Mow in slight overlapping rows. The most effective pattern for mowing lawns is straight lines along one of the sides. This will keep the rows even and ensures that all the lawn is cut without missing any spots. (See Fig.7)

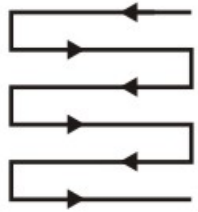


Fig.7

13). Circle around flower beds. When reaching a flower bed in the middle of the lawn, cut a row or two around the circumference of the bed.

14). Pay special attention when changing direction.

MAINTENANCE

WARNING! Always switch the product off and disconnect the spark plug connector before performing inspection, maintenance and cleaning work and let the product cool down!

WARNING! Only perform repairs and maintenance work according to these instructions! All further works must be performed by a qualified specialist!

WARNING! Only perform repairs and maintenance work according to these instructions! All further works must be performed by a qualified specialist!
WARNING! Refer to supplied "Briggs&Stratton engine Operator's manual" for any engine maintenance action.

Keep the product clean. Remove debris from it after each use and before storage.

Regular and proper cleaning will not only ensure safe use but also prolongs the life span of this product.

Inspect the product before each use for worn and damaged parts. Do not operate it if you find broken and worn parts.

1. GENERAL CLEANING

1). Clean the product with a damp cloth and pH-neutral soap. Use a brush for areas that are hard to reach.

2). In particular clean the air vents after every use with a cloth and brush.

3). Remove stubborn dust with compressed air (max. 3 bar).

4). Check for any damage and wear. Repair damages in accordance with this instruction manual or take it to an authorised service centre before using the product again.

2. CUTTING DEVICE REPLACEMENT

WARNING! Wear safety gloves when working on the cutting device and close to it! Use proper tools to remove debris, e. g. a wooden stick! Never use your bare hands!

1). Keep the underbody and cutting device clean and free of debris. Remove clippings also from the discharge chute.

2). All nuts and bolts must be checked periodically for correct tightness before operation. After prolonged use, especially in sandy soil conditions, the cutting device will become worn and lose some of the original shape. Cutting efficiently will be reduced and the cutting device should be replaced.

3). Keep the cutting device sharp to ensure a good cutting performance. Replace a worn or damaged cutting device with a new one of the same type or have it sharpened by a qualified specialist.

a). Loosen the hex bolt (29) anticlockwise using a relevant wrench (no supplied) and remove it together with the locking flange (28) and cutting device (30). (See Fig.8)

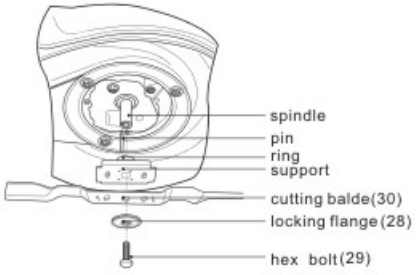


Fig.8

b). Replace the cutting device with a new one of the same type, then refit the locking flange and centre bolt. Tighten the centre bolt clockwise with 30N.m min, 45N.m max. to ensure safe operation of your product.

c). Replace this cutting blade after 50 hours mowing or 2 years which ever is sooner regardless of condition. If the blade is cracked or damaged, you must replace it with a new one.

d). To prolong the life span of cutting device and product it is recommended that the cutting device is lubricated after each use. Apply light machine oil along the edge of the cutting device.

3. CLEAN AIR FILTER

Inspect the air filter regularly. Replace it with a new one if necessary.
1). Loosen the air filter case (14) using a proper slotted screwdriver and remove the screw on the top of the case. (See Fig.9a)
2). Take the air filter case out of the support and open it. (See Fig.9b)

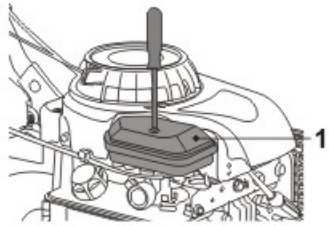


Fig.9a

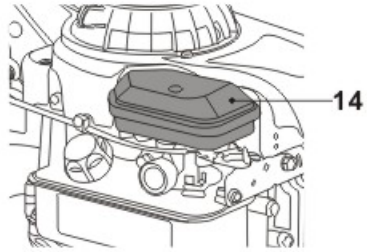


Fig.9b

3). Remove the filter and tap it on a solid surface to remove dust. Use compressed air (max. 3 bar) to remove stubborn dust. (See Fig.9c)

Fig.9c

4). Apply a small amount of air filter oil on the filter to increase the performance of the filter. Wring out surplus oil and put the filter into the case.

5). Close the air filter case and then put it back on the support. Make sure it fits properly and attach it with the screw.

4. FUEL

1). Empty the fuel tank when storing the product over 30 days to prevent the fuel from deteriorating.

2). Unscrew and remove the fuel tank cap and use a proper fuel pump to empty the fuel in a suitable container.

5.ENGINE OIL

WARNING! We strongly recommend jacking the product up when performing the oil replacement. Refer to supplied "Briggs & Stratton engine operator's manual" before replace the engine oil.

1). CHECKING

a). Check the engine oil level and quality before each use.

b). Unscrew and remove the oil tank cap.

c). Wipe the oil dipstick clean; refit and tighten the filler cap and then remove it again. The oil level must be between the "**FULL**" and "**ADD**" markings and should be clear with gold colour.

d). Change the engine oil every 5 hours of operation, if it's sticky or brown and refill if the oil level is below "**ADD**".

2). CHANGING

a). Place a suitable container under the oil drain screw. Ensure the container can hold a volume of 0.6L.

b). Use one proper pump (**NO SUPPLIED BUT POSSIBLE TO BUY IN SCREWFIX**!) to drain fuel or engine oil.
OR
c). Drain the engine oil from the oil inlet. Place a suitable container which approx 0.6L under the mower, overturn mower to drain engine oil drop into the container."

d). Refill as described in section "**ASSEMBLY INSTRUCTIONS- FILL ENGINE OIL"**.

6. CLEAN GRASS CATCHER

1). Inspect the grass catcher before each use. Do not use it if you find any damage.

2). Clean the grass catcher after operation using water and mild soap. Let the grass catcher dry thoroughly before storing to avoid mildew.

7. SPARK PLUG

WARNING! This engine uses a CHAMPION RJ19LM spark plug with 0.6-0.7mm electrode gaps. Use a suitable replacement and replace once a year. You can use "CHAMPION" or "NGK" as an alternative.

1). Inspect the spark plug every 25 hours or prior to long-term storage over 30 days if the use has not been this high. Clean or replace with a new spark plug if necessary.

2). Unplug the spark plug connector (11). (See Fig.10a)

3). Loosen the spark plug with the spark plug wrench (A) anticlockwise and carefully remove it. (See Fig.10b)

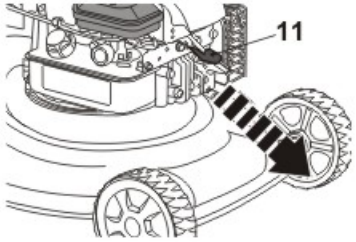


Fig.10a

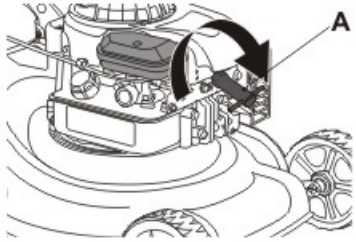


Fig.10b

4). Check the spark plug for damage and worn. The colour of the electrode should be light-brown coloured.

5). Remove debris from the electrode with a soft wired brush; avoid heavy cleaning of the electrode.

6). Dry the spark plug with a soft cloth if it is wet from fuel.

7). Check the spark plug gap. It should be 0.6 - 0.7 mm. (See Fig.10c)

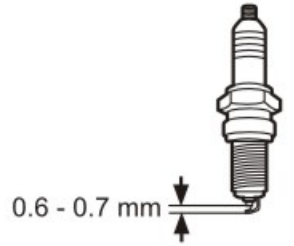


Fig.10c

8). Replace with a new spark plug if either the electrode or the insulation is damaged.

9). When replacing the spark plug, first screw it in hand tight and then lightly tighten it with the spark plug wrench.
WARNING! Do not over-tighten the spark plug to avoid any damage!

8. CARBURETTOR

The carburettor is preset by the manufacturer. Should it be necessary to make any changes please contact Briggs & Stratton engine service centre or a similarly qualified person. Do not attempt to make any adjustments by yourself.

9. SILENCER

If it be necessary to modify or replace the silencer, please contact Briggs&Stratton engine service centre or a similarly qualified person.

10. REPAIR

This product does not contain any parts that can be repaired by the consumer. Contact a qualified specialist to have it checked and repaired.

11. MAINTENANCE TABLE

Part	To do	Before/ after each use	10 hours	25 hours	50 hours / half year	100 hours / once a year
Spark plug	clean and check			x		
Spark plug	replace	whenever necessary				
Air filter	check	x				
Air filter	clean		x			
Air filter	replace	whenever necessary				
Cutting device	clean and check	x				
Cutting device	lubricate	x				
Cutting device	replace				1 or 2 years	
Valve play	check					x

12. STORAGE

1). Clean the product as described above.

2). Store the product and its accessories in a dry, frost-free place.

3). Always store the product in a place that is inaccessible to children. The ideal storage temperature is between 10 and 30°C.

4). We recommend using the original package for storage or covering the product with a suitable cloth or enclosure to protect it against dust.

13. TRANSPORTATION

1). Switch the product off and disconnect the spark plug connector before transporting it anywhere.

2). Attach transportation guards as described, if applicable.

3). Always transport the product by its handle.

4). Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.

5). Secure the product to prevent it from slipping or falling over.

14.RECYLING AND DISPOSAL

1). Old products are potentially recyclable and do not, therefore, belong in your household rubbish. You are requested to assist us and our contribution to saving resources and protecting the environment by handing in this product at an equipped collection centre (if there is one available).

2). Petrol, oil, used oil, a mixture of oil and petrol and objects soiled with oil e. g. cleaning cloths do not belong in the household rubbish. Dispose of oil-contaminated items in accordance with the local guidelines and hand them in at recycling centres.

3). The product comes in a package that protects it against damages during shipping. Keep the package until you are sure that all parts have been delivered and the product is function properly. Recycle the package afterwards.

TROUBLESHOOTING

WARNING! Suspected malfunctions are often due to causes that the user can fix themselves. Therefore check the product using this section. In most cases the problem can be solved quickly.

WARNING! Only perform the steps described within these instructions! All further inspection, maintenance and repair work must be performed by an authorised service centre or a similarly qualified specialist if you cannot solve the problem yourself!

Problem	Possible cause	Fault correction
Engine does not start	Not enough fuel in fuel tank	Add fuel
	Primer has been not pressed at cold start	Press the primer and restart
	Primer has been pressed at warm start	Dry spark plug
	Spark plug is wet	Dry spark plug
	Spark plug is damaged	Replace spark plug
	Spark plug connector lose	Attach properly
Engine stops	Not enough fuel in fuel tank	Add fuel
	Cutting device is blocked	Remove blockage
Poor cutting	Cutting device is dull/damaged	Replace with a new one
	Cutting material exceeds capacity	Only cut materials acc. to capacity of the product
	Cutting height is wrong	Adjust cutting height
Excessive vibration/noise or exhaust	Cutting device is dull/damaged	Replace with a new one
	Bolts/nuts are loosen	Tighten bolts/nuts
	Petrol/oil is incorrect	Empty out unused petrol/oil and refill with the correct fuel/oil

Declaration of Conformity

We, Importer
Powersmith Ltd
BA22 8RT

Declare that the product:
Designation: 148CC PETROL LAWN MWER
Model: DPK434LWM

Complies with the following directives:
2006/42/EC - Machinery Directive
2004/108/EC - Electromagnetic Compatibility Directive
2000/14/EC amended by 2005/88/EC - Noise Emission in the Environment by Equipment for Use Outdoors Directive

The conformity assessment followed was according to Annex III of the directive for equipment listed in schedule 1 / article 13 the chosen conformity assessment route Internal control of production (schedule 10 / Annex V)
– Measured Sound Power Level **93.5 dB(A)**
– Guaranteed Sound Power Level **96 dB(A)**

EC Conformity Certificate number of 2000/14/EC: SNCH*2000/14*2005/88*1790*01
EC conformity report number of 2000/14/EC: 15039961.002
Notified body: TÜV Rheinland Luxemburg GmbH
Notified body identification number: 0499

Standards and technical specifications referred to:

EN836:1997+A1:1997+A2:2001+A3:2004+AC:2006

EN ISO 14982:2009

Authorised signatory and technical file holder

Date: 1/12/11

Signature: P.C.Harries

Name / title: Peter Harries / Quality Manager
Powersmith Ltd. Trade House, Mead Avenue, BA22 8RT

CE

ISSUE DATE: REV1-DEC11