



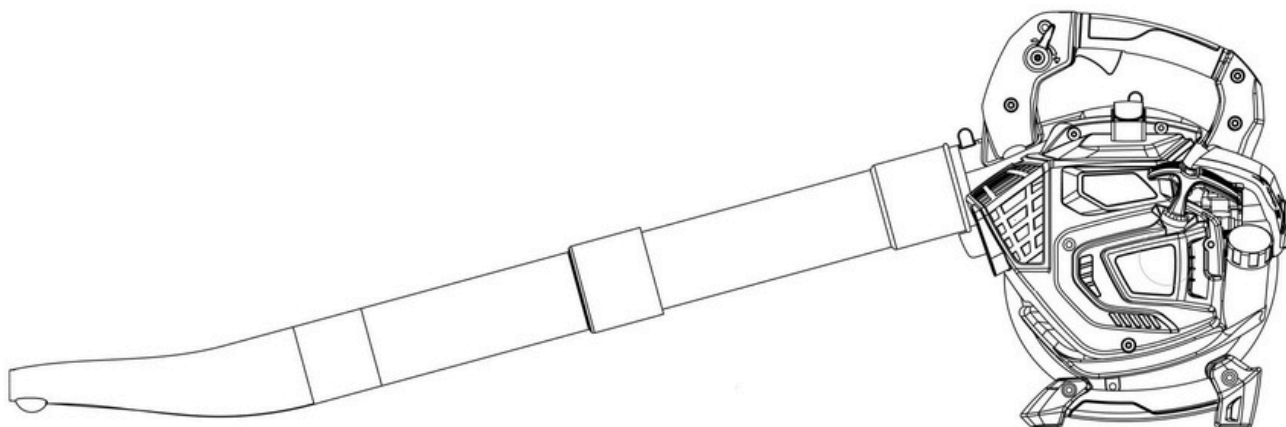
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USER MANUAL

LEAF BLOWER / VACUUM 2IN1

MODEL: CEDDM03 2IN1



FOR YOUR OWN SAFETY

BEFORE USING THE DEVICE, READ AND UNDERSTAND THE ENTIRE
INSTRUCTIONS

ORIGINAL MANUAL



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Thank you very much for selecting the blower. We are pleased to be able to offer you the blower which is the result of a long development programme and many years of knowledge and experience. The blower model CEDDM03 2in1 combines the advantages of state-of-the-art technology with ergonomic design. They are of light weight handy, compact and represent professional equipment for a great variety of applications. Please read, understand and follow this booklet which refers in detail to the various points that will demonstrate its outstanding performance. This will assist you to safely obtain the best possible results from your blower.

IMPORTANT SAFETY INSTRUCTIONS

- Inspect the unit before use. Replace any missing or damaged parts.
Check for fuel leaks. Make sure all fasteners are in place and secure. Replace parts that are cracked, chipped, or damaged in any way. Do not operate the unit with loose or damaged parts.
- Carefully inspect the area before starting the unit. Remove all debris and hard or sharp objects such as glass, wire, etc.
- Be aware of the risk of injury to the head, hands and feet.
Clear the area of children, bystanders, and pets at a minimum, keep all children, bystanders, and pets outside a 50 feet (15 m) radius; there still may be a risk to bystanders from thrown objects.

Bystanders should be encouraged to wear eye protection.If you are approached, stop the unit immediately.

- Use only original equipment manufacturer replacement parts.
- Squeeze the throttle control and check that it returns automatically to the idle position.Make all adjustments or repairs before using unit.
- Do not operate this unit when tired,ill,or under the influence of alcohol, drugs or medications.
- This unit is intended for adult use only.Do not allow children or untrained individuals to use the unit.
- Familiarize yourself with the controls and proper use of your unit prior to using.

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DURING OPERATION

- Never start or run the unit inside a closed room or building.Breathing exhaust fumes can be fatal.Operate this unit only in a well ventilated outdoor area.
- Wear safety glasses or goggles that meet ANSI Z87.1 standards and are marked as such. Wear ear/hearing protection when operating this unit.Wear a face or dust mask if the operation is dusty.
- Wear heavy long pants,boots,gloves and a long sleeve shirt.Do not wear loose clothing,jewelry,short pants,sandals or go barefoot.Secure hair above shoulder level.
- Use the unit only in daylight or good artificial light.

• Avoid accidental starting. Be in the starting position whenever pulling the starter rope. The operator and unit must be in a stable position while starting. Refer to Starting/Stopping Instructions. • Only use this tool for its intended purpose. • Do not overreach. Always keep proper footing and balance. • Always hold the unit with both hands when operating. Keep a firm grip on handle or grips. • Keep hands, face, and feet at a distance from all moving parts. • Do not touch the engine or muffler. These parts get extremely hot from operation, even after the unit is turned off. • Do not operate the engine faster than the speed needed to blow, or vacuum. • Do not operate the unit with loose or damaged parts. Stop the unit, switch the engine to off, and disconnect the spark plug for maintenance or repair. • Use only original equipment manufacturer replacement parts and accessories for this unit. These are available from your authorized service dealer. Use of any unauthorized parts or accessories could lead to serious injury to the user, or damage to the unit, and void your warranty. • Keep unit clean of vegetation and other materials. • To reduce fire hazard, replace faulty muffler and spark arrestor. Keep the engine and muffler free from grass, leaves, excessive grease or carbon build up.

OTHER SAFETY WARNINGS

- Allow the engine to cool before storing or transporting.
- Store the unit in a dry area, locked up or up high to prevent unauthorized use or damage, out of the reach of children.
- Never douse or squirt the unit with water or any other liquid. Keep handles dry, clean and free from debris. Clean after each use, see Cleaning and Storage instructions.
- Keep these instructions. Refer to them often and use them to instruct other users. If you loan someone this unit, also loan them these instructions.

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SAFETY AND INTERNATIONAL SYMBOLS

This operator's manual describes safety and international symbols and pictographs that may appear on this product. Read the operator's manual for complete safety, assembly, operating, maintenance and repair information.





WARNING: Indicates danger, warning or caution. May be used in conjunction with other symbols or pictographs.



WARNING: READ OPERATOR'S MANUAL: Read the operator's manual and follow all warnings and safety instructions. Failure to do so can result in serious injury to the operator and/or bystanders.



WEAR EYE AND HEARING PROTECTION WARNING: Thrown objects and loud noise can cause severe eye injury and hearing loss. Wear eye protection meeting ANSI Z87.1 standards and ear protection when operating this unit. Use a full face shield when needed.



OIL: Refer to operator's manual for the proper type of oil.



Wear gloves to protect your hands



KEEP BYSTANDERS AWAY WARNING: Keep all bystanders, especially children and pets, at least 50 feet (15 m) from the operating area.



HOT SURFACE WARNING
Do not touch a hot muffler, gear housing or cylinder. You may get burned. These parts get extremely hot from operation. They remain hot for a short time after the unit is turned off.



THROWN OBJECTS CAN CAUSE SEVERE INJURY WARNING:
Do not blow objects towards bystanders. Propelled objects can cause serious injury.



BLOWER IMPELLER CAN CAUSE SERIOUS INJURY
Make sure to turn the engine off and wait for the impeller to come to a complete stop before opening the cage. Never insert hands into the vacuum tube while unit is on.



Warning: DO keep away from fire.

SPECIFICATIONS

Weight	4.1kg(blower);5.0kg(vacuum)
Engine displacement	22.5ml
Maximum engine performance	0.65kW
Frequency of the engine	8000r/min
Engine speed at idling	3200±300r/min
at max.engine performance	≤600g/kw.h
Fuel tank volume	0.45L

Noise:Blower mode:Sound pressure level (unit: dB(A)):

Idling:75.6, racing 93.9, equivalent sound pressure level:93.2

Sound power level (unit: dB(A)):

Idling:83.3, racing 102.7, equivalent sound power level:102.7

Vacuum mode:Sound pressure level (unit: dB(A)):

Idling:75.3, racing 92.5, equivalent sound pressure level:91.8

Sound power level (unit: dB(A)):

Idling:82.4, racing 101.1, equivalent sound power level:101.1

Uncertainties: 3dB

Vibration: Blower mode:Throttle trigger handle (unit: m/s²):

Idling:6.16, racing 7.98, equivalent vibration value:7.7

Vacuum mode:Throttle trigger handle (unit: m/s²):

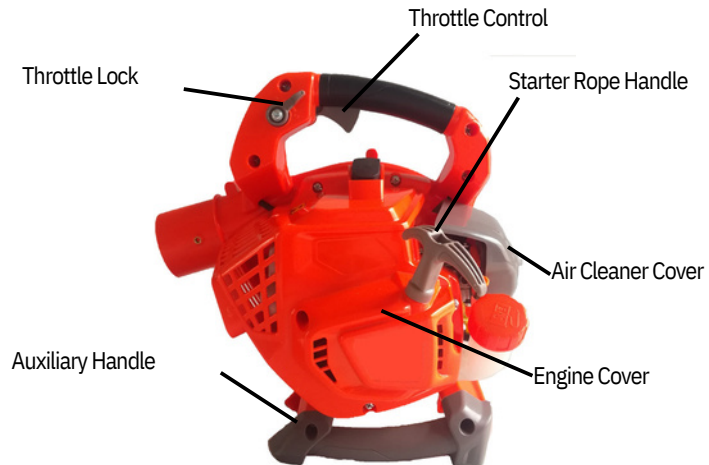
Idling:4.98, racing 9.13, equivalent vibration value:8.7

Auxiliary handle (unit: m/s²):

Idling:2.64, racing 6.42, equivalent vibration value:6.0

Uncertainties: 3m/s²

UNDERSTANDING YOUR UNIT



SPECIFIC RULES FOR BLOWER/VACUUMS

1.Do not use the machine to pick up humid material, water, liquids, pieces of glass,iron,stones or tin cans,this could be very dangerous for you and the machine. 2.Do not use the machine to pick up hot embers or material which is burning, smoking or smoldering.Do not use the machine to pick up lit cigarettes.Do not use the machine to pick up material which has been contaminated by flammable or explosive materials.Do not suck in highly flammable fumes.Always check that the material picked up by your machine is not flammable, toxic or explosive. 3.Do not use the vacuum mode without the dust bag in place. 4.Always keep the area to be cleaned free from wires,stones,debris,tin cans and other obstacles. 5.Avoid colliding with hard objects which could damage your machine. 6.Keep bystanders and animals at least 5m away from the working area.

7.Do not use the vacuum mode without the dust bag in place. 8.Always keep the area to be cleaned free from wires,stones,debris,tin cans and other obstacles. 9.Avoid colliding with hard objects which could damage your machine. 10.Keep bystanders and animals at least 5m away from the working area. 11.Do not manually insert objects into the blower/vacuum tube. 12.Do not insert your hands and fingers into the vacuum opening or exhaust opening. 13.Hold the machine firmly in both hands when working with it. 14.The machine must not be used by anyone under the age of 16.



NOTE: Place the unit on the ground or on a work bench to make attachment installation or Frige.m1oval easier.

ASSEMBLING THE BLOWER

1. With the air vent closed, push the straight nozzle pipe over the discharge port and locking pin, the arrowhead on the straight nozzle pipe should be on the same line with the volute case. Rotate the pipe clockwise to lock. Then tighten the screw in place to secure (Fig.3).

ARROWHEAD ON THE VALUTE CASE

Fig.2

ARROWHEAD ON THE BLOWER NOZZLE PIPE



Fig.3

2.Tighten the screw in place to secure.(Fig.4)



Fig.4

3.Push the blower nozzle pipe over the straight nozzle pipe and locking pin.Rotate the pipe clockwise to lock.The side of the blower nozzle pipe that says “THIS SIDE UP” must face upwards.Then tighten the screw in place to secure.(Fig.5).



Fig.5

ASSEMBLING THE VACUUMS

1.Loosen the Cage Screw and pull down the Cage(Fig.6).



Fig.6

2.Install vacuum attachments in sequence shown,aligning the grooves on the nozzles with the pegs.Slide the nozzles clockwise onto the pegs,Tighten the screw in place to secure(Fig.7).



Fig.7

3. Rotate the connector pipe clockwise to lock, the arrowhead on the connector pipe should be on the same line with the volute case, Tighten the screw in place to secure (Fig.8).



Fig.8

SCREW

4. Insert the connector pipe into the side opening of the vacuum bag. Wrap the Velcro strap around the bag and pipe to secure the bag in place. Place the shoulder strap over your left shoulder and adjust the Shoulder Strap Adjustment as necessary. (Fig.9).



Fig.9

STARTING / STOPPING

STARTING INSTRUCTIONS

1.Fill the fuel tank with the amount of Fuel/oil mixture needed for the job.
2.Turn switch to " " position(ON of "ON/OFF") (Fig.10).

ON/OFF SWITCH



Fig.10

3.ONLY FOR COLD ENGINE START.
Pull the choke to the fully extended position so that the choke is closed.(Fig.11).

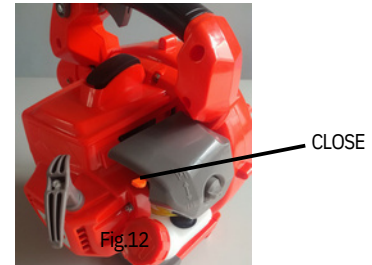


Fig.11

4.Press and release the primer bulb 7-10 times until it is full of fuel.(Fig.12).



Fig.12

5. Place the unit firmly on the ground or a very sturdy work surface. Make sure all bystanders are a minimum of 50 feet (15m) away. Do not attempt to start near pilot lights or any open flame. Do not smoke. Grasp the Starter Rope with one hand and press the engine cover with the other, pull the starter rope slowly until you feel the engine engage and then start the machine by pulling the starter rope upwards briskly. The unit should start within 5 pulls, then make the choke full open (Fig.13). Once warm, the engine should start on the first pull. If it fails to start, re-prime the bulb and ensure the choke lever is in the correct position (Fig.14).



Fig.13

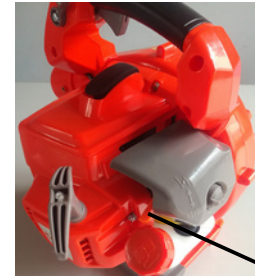


Fig.14

FULL OPEN

6. Squeeze the throttle control slightly to warm up the engine for 15 to 30 seconds. In cold weather, move the throttle slowly until the engine warms up for 30 to 60 seconds.

NOTE: When starting the engine in hot or cold conditions it may be necessary to squeeze the throttle open while pulling the starter rope.

WHEN THE ENGINE STARTS

For maximum performance and operating life, allow the engine to warm before use.

1. Run the engine for 2-3 minutes at idle speed until the operating temperature is reached.
2. As the engine warms, open the choke gradually by slowly pushing the choke control in to the fully retracted position.
3. The engine should now be ready for use.

IF THE ENGINE DOES NOT START

Repeat the appropriate starting procedures. If the engine still will not start, follow the “Starting a Flooded Engine” instructions below.

STARTING A FLOODED ENGINE

1. Disconnect the spark plug lead, and use the spark plug wrench to remove the spark plug in a counter-clockwise direction (Fig.15).
2. If the spark plug is fouled or is soaked with fuel, clean or replace the plug as required.



Fig.15

3. Clear excess fuel from the combustion chamber by cranking the engine several times while the spark plug is removed. 4. Install the spark plug and firmly tighten it with the spark plug wrench. If a torque wrench is available, torque the spark plug to 148-165 inch-pounds. Reconnect the spark plug lead.



WARNING

Incorrect spark plug installation can result in serious engine damage.

STOPPING INSTRUCTIONS

1. Release your hand from the throttle control. Allow the engine to cool down by idling.

2. If your unit is equipped with a spring loaded ON/ OFF switch, press and hold

the button on "o" until the unit stops. Otherwise, push the switch to the position.



If the engine continues to run with the ignition button in the "OFF" position, stop the engine by pulling the choke out to the fully closed position or opening the cage.

BLOWER MODE

Before operating the unit, check for the following:

- The operator is wearing proper clothing, eye and ear protection
- All blower attachments are properly installed and secure.

1. Start the unit.

2. Direct the nozzle in the direction in which to blow (Fig.16)

3. Pull the throttle control.

4. Set the throttle lock at any desired speed by pushing the knob to the lock position. To adjust throttle speed, push the throttle lock to the off position, adjust, and relock the throttle control.



Fig.16

VACUUM/MULCHER MODE

Before operating the unit, check for the following:

- All vacuum attachments are properly installed and secure.
- Make sure Mulch Collection Bag is not twisted or constricted in any way.

1. Start the unit.

2. Place collection bag strap over the left shoulder and adjust the strap as necessary (Fig.17).

3. Pull the trigger to start the vacuum.

4. Set the throttle lock at desired speed.
 5. Empty the bag as necessary by removing it from unit and opening the zipper Located at the top edge.
- NOTE: Do not operate this unit with the cage side up or the handle side down. This will cause oil contamination and smoke to come out the exhaust.



When operating the unit for collecting, if the entrance of the collecting pipe is jammed with lots of leaves, Do slow down the engine speed, and then make the pipe clean immediately, or else it will damage your machine seriously.



Fig.17

OIL AND FUEL MIXING INSTRUCTIONS

- Fuel used for this model is a mixture of unleaded fuel and approved 2-stroke oil. When mixing fuel with two-stroke engine oil, use only 90 octane or higher unleaded petrol known to be of good quality. This will help to avoid possible damage to engine fuel lines and other engine parts.
- When preparing fuel mixture, mix only the amount needed for the job you are to do. Always use fresh fuel/oil mixture for optimum performance of your unit.

Stale fuel mixture will lead to difficulty in starting your unit and poor performance. Do not use fuel that has been stored. Two-stroke fuel may separate. Shake fuel container thoroughly before each use. • Mix all fuel with premium 2-strokes engine oil at a gasoline /oil ratio of 30: 1 • Thoroughly mix the correct ratio of 2-stroke engine oil with unleaded petrol in a separate container. • Pour the mixture into the fuel tank of the unit. Be careful not to overfill the tank. • Replace the fuel cap. • Failure to follow proper fuel mixing instructions may cause damage to the engine. • Do not smoke while filling the tank.



Never operate this machine without the fuel cap securely in place.



Using a less rate of oil (e.g. 50:1) will cause the unit to overheat and will not be covered by the manufacturer's warranty.



WARNING

- Do not mix fuel and oil directly into the engine fuel tank of the unit.
- Never fill the fuel tank to the very top.
- Never add fuel to the tank in a closed non-ventilated area.
- Keep sparks and open flames at a distance from the work area.
- Be sure to wipe off spilled fuel before attempting to start the engine.
- Do not attempt to refuel a hot engine.

ADJUSTMENTMENTS

The idle speed of the engine is adjustable. An idle adjustment screw is on the rear side of the carburetor, you could adjust the idle speed of the engine with a socket spanner through the hole of the engine cover (Fig.18).

NOTE: Careless adjustments can seriously damage your unit. An authorized service dealer should make carburetor adjustments.

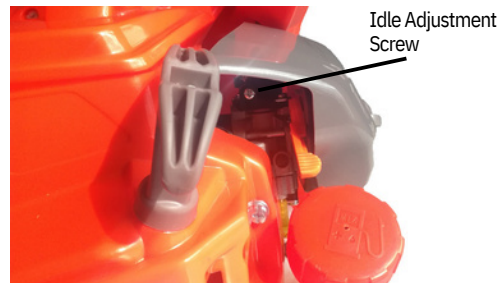


Fig.18

ADJUSTING THE ENGINE IDLE SPEED



The machine pipes and air vent cover must be installed while adjusting the engine idle speed. The Engine idle speed will also be affected if either the air vent cover or machine pipes are blocked, damaged or incorrectly installed.

If, after checking the fuel and cleaning the air filter, the engine still will not idle, adjust the idle speed screw as follows:

1. Start the engine and let it run at a high idle for a minute to warm up. Refer to Starting/Stopping (p.15).
2. Release the throttle trigger and let the engine idle. If the engine stops, use a small Phillips or flat blade to turn the idle speed screw in, clockwise, 1/8 of a turn at a time (as needed) until the engine idles smoothly (Fig.18).

NOTE: Checking the fuel, cleaning the air filter, and adjusting the idle speed should solve most engine problems. If not and all of the following are true:

- The engine will not idle.
- The engine hesitates or stalls on acceleration.
- There is a loss of engine power.



Check the spark plug for proper gap and condition. If problem still occurs, have the carburetor adjusted by an authorized service dealer.

MAINTENANCE



Some maintenance procedures may require special tools or skills. If you are unsure about these procedures, take your unit to an authorised service dealer.



Never do maintenance or repairs with the unit running. Always do maintenance and repairs on a cool unit. Disconnect the spark plug wire to ensure the unit will not start.

MAINTENANCE SCHEDULE

The required maintenance procedures should be performed at the frequency stated in the table. They should also be included as part of any seasonal tune-up.

FREQUENCY	MAINTENANCE REQUIRED
Daily	<ul style="list-style-type: none">• Remove dirt and debris from the blower exterior.• Inspect the engine, tank, and hoses for possible leaks, and repair as necessary.• Inspect the engine cooling fins for accumulation of dirt or debris, and clean as necessary.• Inspect the entire machine for damage, loose or missing components or fastenings, and repair as necessary.
Every 5 hours	Clean and re-oil the air filter.
Every 10/15 hours	Check spark plug condition and gap.
Every 50 hours	<ul style="list-style-type: none">• Inspect the entire machine and tubes for damage, including loose or missing components, and repair as necessary.• Check spark plug condition and gap.• Check fuel filter.
Periodically	Clean the spark arrestor screen.

CHECKING THE AIR FILTER

This should be done more frequently in dusty conditions.

1. Accumulated dust in the air filter will reduce engine efficiency, increase fuel consumption and allow abrasive particles to pass into the engine. Remove the air filter as often as necessary to maintain in a clean condition.
2. Light surface dust can readily be removed by tapping the filter.
3. Heavy deposits should be washed out with a suitable solvent.
4. Remove the filter cover by pressing the part of the inside cover shown as Fig.20.

CHECKING THE SPARK PLUG

1. Use the spark plug wrench to remove the spark plug (turn counter-clockwise to remove) (Fig.15).



Fig.19



Fig.20

2. Clean and adjust the spark plug gap to 0.6~0.7mm (Fig.21). Replace any damaged or visibly worn spark plug.

3. Install the spark plug finger-tight in the cylinder head, and then tighten it firmly with the spark plug wrench. If a torque wrench is available, torque the spark plug to 148-165 inch-pounds.



Fig.21

WARNING



Never allow dirt or debris to enter the cylinder bore. Before removing the spark plug, thoroughly clean the spark plug and cylinder head area. Allow the engine to cool before servicing the spark plug. Incorrect spark plug installation can result in serious engine damage.

CHECKING THE FUEL FILTER 1. The fuel tank is fitted with a filter. The filter is situated at the free end of the fuel pipe and can be picked out. (Fig.21).

2. Check the fuel filter periodically. Do not allow dust to enter the fuel tank. A clogged filter will cause difficulty in starting the engine or abnormalities in engine performance.

3. When the filter is dirty, replace the filter.

4. When the inside of the fuel tank is dirty, it can be cleaned by rinsing the tank out with petrol.

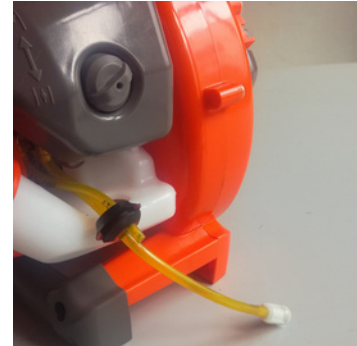


Fig.21

LUBRICATION 1. Remove the spark plug.

2. Pour approximately 1/40z of oil into the cylinder through the spark plug hole.

3. Before reinstalling the spark plug, pull the recoil starter 2 or 3 times to distribute the oil over the cylinder walls.

CLEANING AND STORAGE

CLEANING • Use a small soft brush to clean the outside of the unit. Do not use strong detergents. Household cleaners that contain aromatic oils such as pine and lemon, and solvents such as kerosene, can damage plastic housing or handle. Wipe off any moisture with a soft cloth. • Empty the vacuum bag. Turn it inside out and shake off any excess debris. Hand wash the empty vacuum bag annually with soapy water and allow to air dry. **STORAGE** • Never store the unit with fuel in the tank. • Allow the engine to cool before storing. • Lock up the unit to prevent unauthorized use or damage. • Store the unit in a dry, well-ventilated area. • Store unit out of reach of children. **LONG TERM STORAGE (WINTER)** Should the unit will be stored for an extended time, use the following storage procedure. 1. Drain all fuel from the fuel tank. Do not store mixed fuel for more than 60 days. 2. Start the engine and allow it to run until it stalls. This ensures that all the fuel has been drained from the carburettor.

3. Allow the engine to cool. Remove the spark plug and put 30ml of high quality motor oil or 2-stroke oil into the cylinder. Pull the starter rope slowly to distribute the oil. Reinstall the spark plug.

4. Thoroughly clean the unit and inspect for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts. The unit is ready for storage.

NOTE: Remember to have your machine serviced at an authorized service centre at least once a year!

TRANSPORTING

- Allow the engine to cool before transporting.
- Secure the unit while transporting.
- Tighten the fuel cap before transporting.

TOOL LIST

TOOL	SPEC
Socket Spanner	P23.14A