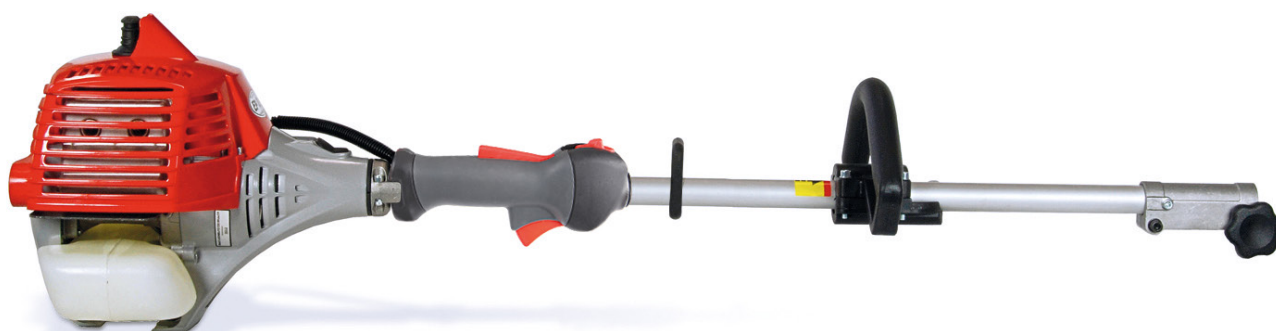




**BLUEBIRD
INDUSTRIES**

**COMBI 261-341 / COMBI 280-370 /
COMBI EHO 25 / COMBI HO 35**



User manual (Original instructions)

Preface

This manual explains in detail how to use the brushcutter. Before turning on the appliance, carefully read the manual and study the structure, operating methods, etc.... Master the repair and maintenance operations so that you can use the machine correctly and safely.



SAFETY FIRST

The instructions in this manual marked with the symbol  concern key points that must be taken seriously to prevent possible injuries. For this reason, you are required to read these instructions carefully and follow them scrupulously.



WARNING

This symbol indicates instructions that must be followed to prevent accidents that could cause serious injury or death.



IMPORTANT

This symbol indicates instructions that must be followed to avoid mechanical failures, breakages, or damage to the device.



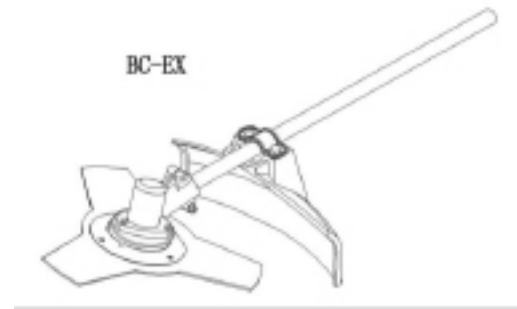
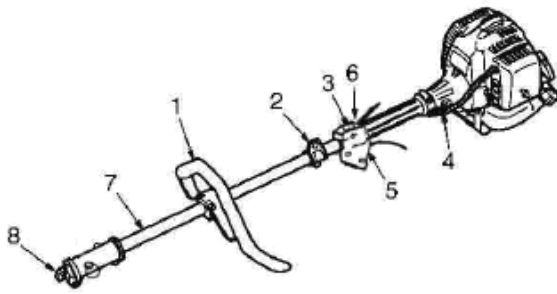
NOTE

This symbol indicates useful advice or instructions for using the product.

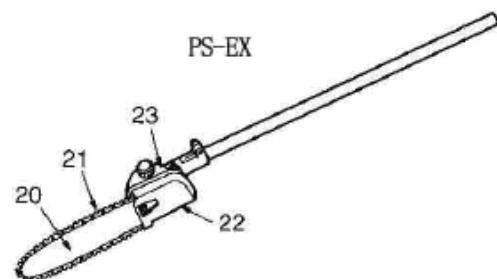
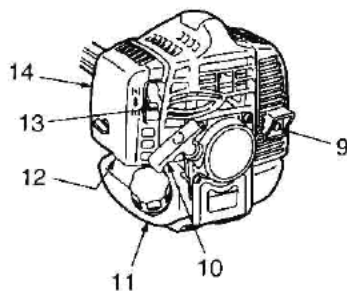
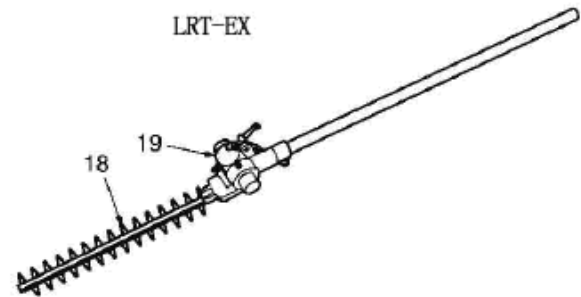
Summary

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1. Identification of parts



1. Handle
2. Harness attachment
3. Power button
4. Throttle cable
5. Throttle
6. Throttle adjustment button
7. Rod
8. Fixing bolt
9. Spark arrestor
10. Starter handle
11. Fuel tank
12. Primer
13. Choke lever
14. Air filter cover
15. Debris guard
16. Conical gear
17. Trimmer head
18. Blade
19. Bevel gear
20. Chain bar
21. Pruning chain
22. Chain guard
23. Bevel gear



2. Specifications

Engine

For all information regarding the engine, refer to the specifically dedicated section.

Model	BC-EX	LRT-EX	PS-EX
Dimensions (LxWxH) [mm]	1790x250x310	2300x250x310	2100x250x310
Dry weight [kg]	5,3	6,1	5,05
Reduction ratio	1,357	4	0,94
Direction of head rotation	counter-clockwise		
Cutting head			
Type		double blade	
Teeth		28	
Pitch [mm]		30	
Effective cutting width [mm]		40	
Adjustment angle		90°	
Sprocket			7T
Oil pump			Piston type

Direction of rotation	COMBI 261-341	COMBI 280-370	EHO 25- HO 35
Rod diameter [mm]	26	24	24/26
Empty weight (without mixture, cutting tool and guard) [kg]	4,5 4,9	5,3	4.7 5
Tank volume [cm³]	450/700	900	580/650
Type of motor	1E34FGN 1E36F-2GN	P28E P35E	HONDA GX25 HONDA GX35
Maximum power [kW]	0.75 0.9	0.90 1.10	0,72/1KW
Displacement [cm³]	25.4 32.6	27.4c.c. 34c.c.	25/35
Rotation speed [rpm/1']	8.000		
Engine minimum speed range [rpm/1']	2800-3000		
Direction of rotation	Counterclockwise		
For all information regarding the engine, refer to the specifically dedicated section.			

3. Labels on the machine



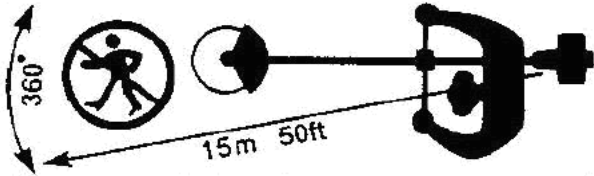
Read the instruction manual before using the device.



Wear protection for head, eyes and ears.



Caution / warning



Keep children, bystanders and helpers at a minimum distance of 15 meters from the machine



If the warning labels come off or become damaged and impossible to read, contact the machine dealer to order new labels and stick them in the designated positions.



Never modify the machine.

The warranty is not valid in case of modifications to the device or if used not in accordance with the instructions in this manual.

4. Symbols on the machine

For safe use and maintenance, the symbols are embossed on the machine. Follow with care these instructions.



Filling the mixture into the tank
Position: TANK CAP



Position for air closure
Position: AIR FILTER COVER



Position for air opening
Position: AIR FILTER COVER



(Only for PS EX) If the adjustment screw is set to the "MAX" position, the oil flow for the chain will be greater. In the "MIN" position it will be less.
Position: at the bottom of the bevel gear

5. For safe use

For safe use and maintenance, the symbols are embossed on the machine. Follow with care these instructions.



1. Carefully read this manual and follow all safety and usage instructions for the device
2. Keep this manual available so you can access the instructions if needed. If in doubt, contact the product dealer.
3. Always include the manual in case of sale, rental, or transfer of ownership of this device
4. Do not allow children or anyone unable to understand the instructions contained in this manual to use the device.

WORKING CONDITIONS

1. During use of the device, appropriate protective clothing and accessories should be worn



1. **Helmet**
2. **Ear protection**
3. **Protective glasses or visor**
4. **Thick work gloves**
5. **Heavy work footwear**

2. Always carry with you:

- (1) The included accessories
- (2) Fuel in an appropriate container
- (3) Spare blade
- (4) Adequate work area signage (warning tape, signs...)
- (5) Whistle (for emergencies)
- (6) Hatchet or saw (for removing obstacles)

3. Do not wear loose clothing, jewelry, shorts, sandals; do not remain barefoot. Do not wear anything that could interfere with moving parts of the device. Tie up hair above the shoulders

WORK SITUATIONS



Never start the engine in a closed room or building. Exhaust gases contain carbon monoxide.

2. Never use the machine:

- a. Where the ground is slippery or it is not possible to maintain a firm stance.
- b. At night, in thick fog, or in any circumstance where the field of vision is limited and it would be difficult to have a clear view of the work area.
- c. During thunderstorms, strong winds, or in any circumstance where weather conditions make use of the device dangerous.

WORK SCHEDULING

1. Do not use the product under the influence of alcohol, in case of fatigue due to lack of sleep, in conditions of weakness due to the use of medication, and in any situation where judgment may be less than usual or for any reason you are unable to use the device in a safe and appropriate manner.
2. When planning your work schedule, allow for a sufficient rest period. The period of use of continuous use of the device should be limited to 30–40 minutes per session, and alternated with a 10–20 minute rest period. Use of the device should not exceed 2 hours per day.



WARNING

1. If work times and methods are not observed, you may incur Repetitive Stress Injuries.
2. To avoid complaints about excessive noise, use the device between 8:00 and 17:00 during the week and between 9:00 and 17:00 on weekends



NOTE

Check and follow local regulations on noise levels and product usage hours.

BEFORE STARTING THE ENGINE

1. The area within a 15 m radius of the person using the product should be considered a "danger zone" which should not be entered. If necessary, place warning tape or warning signs on the perimeter of the area. If the work is carried out simultaneously by two or more people, you should always ensure that a sufficient distance is maintained between people to ensure their safety.

2. Check the condition of the work area to avoid accidents by hitting hidden obstacles such as cans or broken glass.



IMPORTANT

Remove any obstacles before starting work.

3. Inspect the device for any fuel leaks. Make sure that the accessory for cutting is properly secured.
4. Make sure that the debris guard is properly secured.
5. Always use the harness. Adjust its length before starting the engine. The harness should be adjusted so that the left hand can comfortably hold the handle at the height of the waist.

START THE ENGINE

1. Keep people and animals at a minimum distance of 15 meters from the work area. In case someone approaches, stop working.
2. The device is equipped with a centrifugal clutch, so that the cutting accessory starts operating only when the engine is started by placing the throttle in the start position. When starting the engine, place the product on the ground in a flat and obstacle-free area and hold it firmly, to ensure that the cutting accessory or the throttle do not come into contact with any obstacles.



WARNING

NEVER PLACE THE THROTTLE IN THE HIGH-SPEED POSITION WHEN STARTING THE ENGINE.

3. After starting the engine, check that the cutting accessory stops rotating when the throttle is returned to its original position. If it continues to rotate even after the throttle has returned to the initial position, turn off the engine and take the device to an authorized service center for repair.

USE OF THE MACHINE

1. Keep people and animals at a minimum distance of 15 meters from the work area. In case someone approaches, stop working.

IMPORTANT

Cut only the materials recommended by the manufacturer. Use only for the operations described in the manual.

1. Firmly grip the handles with both hands using your whole hand. Place your feet slightly wider than shoulder-width apart, so that your body weight is well distributed and your posture remains stable even during work.
2. Keep the cutting application below waist level.
3. Keep the engine speed at the level required to complete the cutting operations. Never increase the engine speed more than necessary.
4. If the device starts to vibrate, turn off the engine and check the entire unit. Do not reuse until the problem has been properly resolved.
5. Keep all parts of your body away from the cutting applications and hot parts.
6. Never touch the muffler, spark plug, or other metal parts of the engine while it is running or immediately after shutting it off, to avoid burns or electric shocks.



IF SOMEONE APPROACHES

1. Always be careful to avoid dangerous situations. Warn adults to keep children and animals out of the work area. Be careful if someone approaches. Flying debris could cause injuries.
2. If someone calls you, make sure you have turned off the engine before turning around.

MAINTENANCE

1. To keep the device in proper working condition, regularly perform the maintenance operations and checks described in this manual.
2. Always make sure the engine is turned off before starting any maintenance or inspection operation.

WARNING

The metal parts reach high temperatures immediately after the engine stops.

3. When replacing the cutting application or any other part, or when replacing the oil or other type of lubricant, make sure to use only authorized distributor products.
4. If you need to replace any part or perform maintenance or repair not mentioned in this manual, please contact a representative of the nearest authorized store or the authorized distributor for assistance.
5. Do not use accessories or applications other than those bearing the company's brand and recommended for the product.
6. Under no circumstances is it permitted to disassemble or modify the product. If you do so, the product may be damaged during use or not function properly.

HOW TO HANDLE FUEL

1. The engine of the product is designed to operate with a mixture that contains highly flammable gasoline. Never leave fuel cans or fill the product's tank in places near boilers, stoves, open flames, electrical sparks, welding sparks, or any other source of heat or flame that could ignite the fuel.



2. It is forbidden to smoke while using the product or refueling the tank. 3. When filling the tank, always turn off the engine and wait for it to cool down. Make sure there are no open flames or sparks nearby before proceeding with refueling.
4. In case of spills during refueling, use a dry cloth to absorb the spilled fuel.

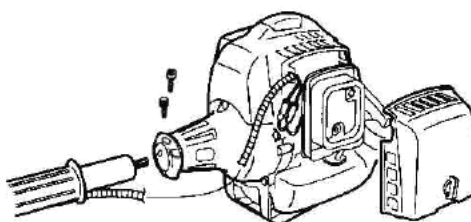
5. After refueling, tightly screw the tank cap onto the tank and move the machine to at least 3 meters away from the refueling point before restarting the engine.

TRANSPORT

1. If carrying the product by hand, if necessary, cover the cutting part and lift the product, transporting it while paying attention to the blade.
2. Never transport the product over rough roads for long distances with a vehicle without first removing all the fuel from the tank. Otherwise, the fuel could leak out during transport.

6. Machine preparation

ENGINE ASSEMBLY



1. Insert the drive shaft into the clutch housing by turning it by hand to ensure that the shaft engages with the gears.
2. Insert the drive shaft into the clutch housing until it reaches the bottom, and align the positioning holes on the clutch housing with the shaft tube and install the screw. If the coupling is difficult, help yourself by slightly pulling the engine.
3. Secure the clamp firmly with two screws.

! IMPORTANT

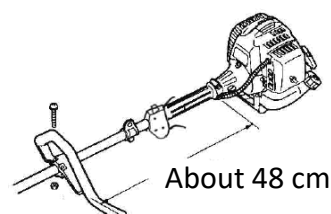
Tighten the screws gradually in turn.

CONNECT THE CABLES

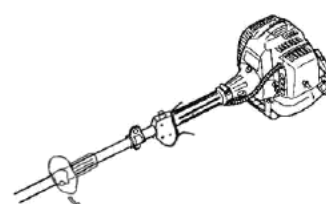
Connect the cables between the engine and the main conduit. Match the cables according to their respective colors.

ASSEMBLE THE HANDLE

- Install the handle on the shaft tube and secure it at a point that is comfortable for use. (only for PS E)

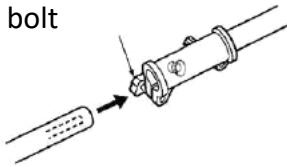


- Insert the clip into the shaft tube



CONNECT THE ACCESSORY

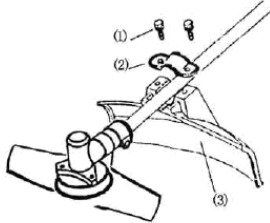
Knob bolt



- Insert the accessory into the main shaft.
- Tighten the knob bolt securely

Assembly (only for BC EX)

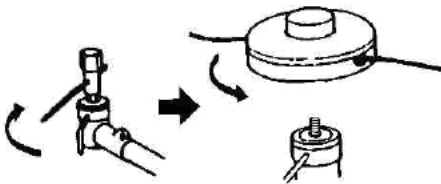
INSTALL THE GUARD



1. Screw
2. Bracket
3. Protection

Mount the guard on the gear case and tighten it with the 2 screws and the included parts.

INSTALL THE CUTTING HEAD



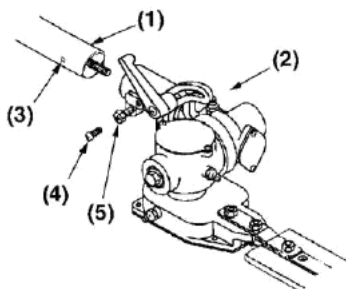
1. While tightening the gear shaft, insert the supplied tool into the upper stop on the gear case, loosen and remove the hex nut (on the left).
2. Then tighten the cutting head onto the gear shaft above the stops.

HOW TO BALANCE THE MACHINE



1. Wear the harness and attach it to the machine.
2. Slide the harness clamp back and forth until you find the balance point for the machine so that the cutting head just touches the ground.

ATTACH THE HEDGE TRIMMER ACCESSORY



1. Main shaft
2. Hedge trimmer accessory
3. Screw hole
4. Screw
5. Fixing bolt

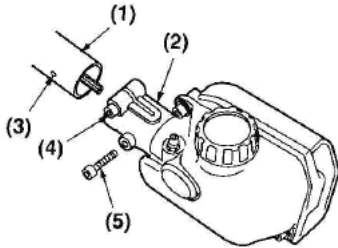
1. Loosen the screw screwed into the hedge trimmer accessory.
2. Insert the end of the hedge trimmer accessory onto the main shaft.
3. Align the hole at the end of the hedge trimmer accessory where the screw goes with the hole on the main shaft and make sure to tighten the screw securely.
4. Using a wrench, tighten the supplied bolt to secure the hedge trimmer accessory.

HOW TO BALANCE THE MACHINE

1. Wear the harness and attach it to the machine.
2. Depending on your working posture, slide the harness clamp back and forth until you find the balance point for the machine so that the harness fits well on you.

Assembly

APPLY THE PRUNER ACCESSORY



1. Main shaft
2. Gearbox cover
3. Screw hole
4. Fixing bolt
5. Bolt

1. Remove the cap from the end of the main shaft.
2. Loosen the screw screwed into the end of the gear housing.
3. Insert the end of the pruner accessory onto the main shaft.
4. Align the hole at the end of the gear housing where the screw is to be fastened with the hole on the main shaft and make sure to tighten the screw securely.
5. Using a wrench, tighten the supplied bolt to secure the accessory.

Fuel and chain oil

FUEL



WARNING



1. Gasoline is highly flammable. Avoid smoking or bringing flames or sparks near the fuel. Make sure the engine is stopped and cooled before refueling the engine. Choose a clear outdoor location for refueling and move the machine at least 3 meters away from the refueling point before restarting the engine.
2. The engines are lubricated with an oil specially formulated for use in 2-stroke air-cooled gasoline engines. Use a quality oil with antioxidant additives and labeled for use with air-cooled 2-stroke gasoline engines (JASO FC GEADE or ISO EGC GEADE oil).

Do not use oil labeled BIA or TCW for the mixture (these are for 2-stroke water-cooled engines).

RECOMMENDED MIXING RATIO (Gasoline 40: Oil 1)

- The exhaust gases are controlled by fundamental engine parameters and components (e.g. carburetion, ignition timing, timing diagram) without the addition of hardware or introduction of inert material during combustion.
- These engines are certified to operate with unleaded gasoline.
- Make sure to use gasoline with a minimum octane rating of 89 RON (87AL USA/Canada)
- If gasoline with a lower octane rating than specified is used, there is a risk of engine overheating and consequently problems such as piston seizure may occur.
- The use of unleaded gasoline is recommended to reduce air pollution for the benefit of your health and the environment.
- Poor quality gasoline or oil can damage the seals, lines, or fuel tank.

HOW TO MIX FUEL



WARNING

- **Pay attention to mixing**

1. Carefully measure the amounts of gasoline and oil to be mixed.
2. Pour a little gasoline into a clean, suitable fuel container.
3. Pour in the entire amount of oil and shake well.
4. Add the remaining gasoline and shake again for at least one minute. Since some oils, due to their ingredients, are difficult to mix, it is necessary to shake well to ensure a long engine life. Be aware that insufficient mixing increases the risk of piston seizure due to a mixture that is too lean.
5. Place a label with clear indications on the fuel container to avoid confusion with other containers or gasoline.
6. Indicate the contents on the outside of the container for easy identification.

- **REFUEL THE ENGINE**

1. Unscrew and remove the tank cap. Place the cap in a dust-free location.
2. Pour the mixture into the tank up to 80% of the tank's capacity.
3. Make sure to tighten the tank cap securely and wipe up any spills with a cloth.



WARNING

1. Choose a clear and level place for refueling.
2. Move the machine at least 3 meters away from the refueling point before restarting the engine.
3. Turn off the engine before filling the tank. Make sure the fuel to be poured into the tank is well mixed: shake the mixture container before filling the tank.

- **FOR BETTER ENGINE LIFE, AVOID:**

1. Using fuel without oil (pure gasoline). It causes serious damage to the internal parts of the engine in a very short time.
2. DIESEL: It can cause deterioration of rubber and/or plastic parts and interrupt engine lubrication.
3. USING OIL FOR 4-STROKE ENGINES: It can cause fouling of the spark plug, clogging of the exhaust passages, or sticking of the piston rings.
4. **Using fuel mixtures that have remained unused for a period of one month or more:** can clog the carburetor and compromise the proper functioning of the engine.
5. If the machine is not used for a long period, clean the tank after emptying it. Then run the engine to empty the carburetor of any remaining fuel.
6. If you need to dispose of the engine oil container, do so at an authorized disposal point.



NOTE

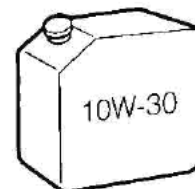
For details on quality assurance, carefully read the description in the Limited Warranty section. Furthermore, normal wear and alteration of the product without affecting functionality are not covered by the warranty. Be aware that failure to follow the usage instructions in this manual regarding mixing, fuel, etc. as reported here, may void the warranty itself.

- **CHAIN OIL**

SAE #10W-30. All year round

SAE#30~#40. Use only in summer

SAE #20. Use only in winter





NOTE

Do not use used or regenerated oil: it could cause damage to the oil pump.

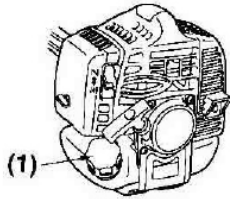
8. Use



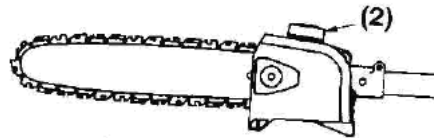
WARNING

The cutting head will start to rotate when the engine is started.

1. Pour fuel into the fuel tank and tightly secure the tank cap.



(1) Gasoline



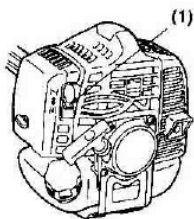
(2) chain oil

(Only for PS-EX)

2. Place the machine on a flat and stable surface. Make sure that the cutting head does not touch the ground and is away from objects, as it will start to rotate as soon as the engine is started.

3. Press the primer several times until fuel comes out of the transparent tube.

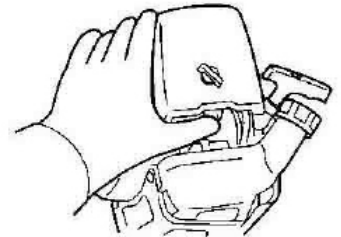
4. Turn the choke lever to the 'closed' position.



(1) Choke lever

(2) Closed

(3) Open



5. Set the ignition switch (a) to the "I" position. Keep the machine in a flat place and stable, and with the cutting head free from any kind of obstruction.

6. While firmly holding the machine in position, quickly pull the starter cord until the engine starts.



WARNING

This product is equipped with a centrifugal clutch mechanism, so the cutting accessory starts to rotate as soon as the engine starts with the throttle valve turned to the start position. When starting the engine, place the product on the ground in a flat spot and hold it firmly to ensure that neither the cutting accessory nor the throttle valve come into contact with obstacles while operating the engine.



IMPORTANT

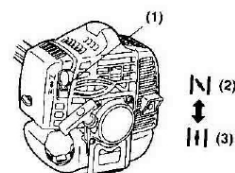
- Avoid pulling the starter cord all the way out or letting it retract by releasing your grip on the handle. Doing so will compromise the functionality of the starter.

7. Push the choke lever down to open the valve. Restart the engine.

(1) Choke lever

(2) Closed

(3) Open



Allow the engine to warm up for a few minutes before starting to use the machine.



NOTE

1. When restarting the engine immediately after stopping it, leave the choke lever open.
 2. Closing the choke lever may make it difficult to restart the engine due to excess fuel.
- If the engine does not start after several attempts, open the choke lever and try again by pulling the cord, or remove the spark plug and dry it.

ENGINE SHUTDOWN

1. Release the throttle valve and let the engine run for half a minute.
2. Turn the ignition switch (a) to the STOP position.



IMPORTANT

- Except in emergency cases, avoid shutting off the engine by pulling the throttle valve.

ADJUSTING THE IDLE

1. When the engine tends to stop frequently while idling, adjust the screw clockwise.
2. If the cutting accessory continues to rotate after releasing the button, adjust the screw counterclockwise.



NOTE

Make sure the engine is warmed up before adjusting the idle speed.

Use (only for BC-EX)

OPERATION OF THE CUTTING HEAD

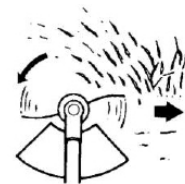


WARNING

1. Always wear eye protection such as safety glasses or protective visors. Do not approach above the cutting head while it is spinning. It could throw stones or debris into your eyes and cause serious personal injury.
2. Always keep the debris guard mounted in the prescribed position when using the machine.

CUTTING GRASS AND WEEDS

- Keep in mind that it is the tip of the nylon line that cuts. You will get better results by proceeding with a smooth cut, without jerky movements. Let the machine cut at its own pace.
1. Hold the machine so that the cutting head does not touch the ground and with an inclination of about 20 degrees relative to the direction of movement.
 2. You can avoid debris by moving from left to right.
 3. Use a slow and steady movement to cut thicker vegetation. The cutting speed will depend on the type of material you intend to cut. Thicker vegetation requires a slower cutting speed.



4. Never swing the machine so much that you risk losing your balance or control of the machine itself.
5. Try to control the cutting operation with your side rather than putting the movement and weight on your arms and hands.
6. Be careful to avoid long-stemmed straw, grass, and dry weeds from wrapping around the shaft head. These materials can block the head and cause the clutch to slip, which may result in damage to the clutch system if repeated often.

ADJUSTING THE LINE LENGTH

- The brushcutter is equipped with a semi-automatic nylon line head that allows the user to extend the line without stopping the engine. When the line becomes too short, tap it lightly on the ground with the engine running at full speed.
- Each time you tap the head on the ground in this way, the line extends by about 2.5 cm. For best results, tap the head on bare or compact ground. Avoid tapping the head in areas where the grass is tall and thick to prevent overloading the cutting operation.

CHOOSING THE BLADE

Choose a suitable, recommended cutting accessory depending on the object to be cut.

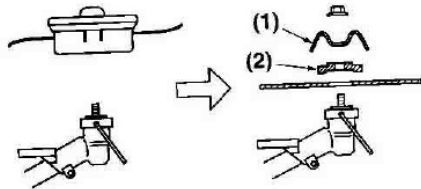
- When replacing the blade, always make sure to use certified products.



WARNING

When sharpening, removing, or reattaching the blade, make sure to wear sturdy and resistant gloves and use only suitable equipment and tools to avoid injuries.

SETUP



- (1) Cover
(2) Disc fixing flange

1. Completely remove the head assembly.
2. Insert the blade with the marked side facing the disc fixing flange, insert the external fixing clamps, and secure the blade with the appropriate nut.

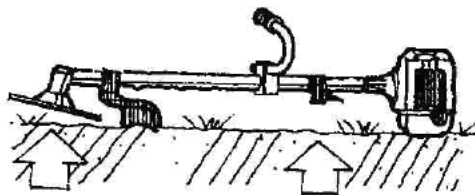
ENGINE STARTING

Follow the instructions in the manual.



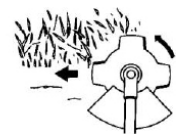
WARNING

The product is equipped with a centrifugal clutch mechanism, so the cutting accessory starts to rotate as soon as the engine is started by putting the throttle lever in the "start" position. When starting the engine, place the product on a flat and clean surface and hold it steady to ensure that neither the cutting device nor the throttle lever comes into contact with any obstacles when starting the engine.



METHOD OF CUTTING

1. Use the front left side for cutting.
2. Guide the blade from your right to your left with it slightly inclined to the left.
3. If you need to mow a large area, start working from the end on your left to avoid interference from the cut grass.
4. The blade can get jammed by weeds if the engine speed is too low or if the blade cuts the weeds too deeply. Adjust the engine speed and cutting depth according to the condition of the object.



WARNING

- If grass or another object gets caught in the blade, or if the unit starts to move or vibrate, turn off the engine and check the entire unit. Change the blade if necessary.
- Turn off the engine and make sure the blade has completely stopped before checking it, removing any object that may have become entangled.

OPERATION

1. Check the bolt to tighten the blade and make sure it has no defects or abrasions.
2. Make sure that the blade and the fixing flange are properly secured as per the instructions and that they rotate without abnormal noises.



WARNING

- Improperly secured rotating parts can cause serious injury to the operator.
- Make sure that the blade is not bent, deformed, broken, or damaged.
- If you find that the blade has any defects, remove it and replace it with a new, certified one.



WARNING

Make sure to use the guard. Otherwise, it becomes dangerous in case of a fall or loss of balance.



WARNING

BLADE KICKBACK CONTROL

The ejection of the blade can cause serious personal injury. Read this section carefully. It is important to understand what causes ejection, how this danger can be reduced, and how to maintain control of the unit if this should happen.



1. What causes ejection:

Ejection can occur when the moving blade comes into contact with an object that it cannot cut. Such contact causes the blade to stop for a moment and then suddenly move or be thrown out, away from the object that was struck. The operator or anyone nearby can be injured on any part of the body.

2. How you can reduce the risk of ejection:

- By acknowledging that this can happen. Understanding and knowledge regarding kickback can help you eliminate the element of surprise.
- Cut only fibrous weeds and grass. The blade must not come into contact with materials it cannot cut, such as screws, climbing plants, hard or woody shrubs, stones, fences, metal, etc.
- Be well prepared for kickback if you have to cut in places where you cannot see what the blade may come into contact with, such as areas of dense growth
- Keep the blade sharp. A dull blade increases the risk of kickback.
- Avoid advancing the blade too quickly. The blade can be bounced away from the material being cut if it is advanced faster than its cutting capacity.
- Cut only from right to left.
- Keep your path clear of cut material and other debris.

3. How you can maintain the best control:

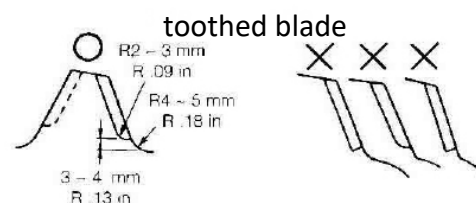
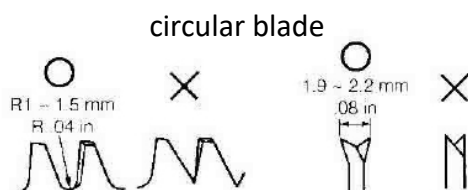
- Hold the unit firmly with both hands to neutralize kickback. Keep both your right and left hands completely around their respective handles.
- Stand firmly on your legs, in a comfortable position, but always prepared for the possibility of kickback. Do not overreach. Maintain good balance.

MAINTENANCE

BLADE

- Check the blade and attachments for any looseness, cracks, or bending.
- Check the cutting edges and reshape them with a flat file.

Tip:



1. Keep the end angle sharp.
2. Round off the root of the edge using a round file.
3. Do not use water when using a sharpener.

IMPORTANT

- It is recommended that sharpening be performed by professionals; this is especially true for the circular saw.

TRANSPORTING THE MACHINE

- When you have finished cutting in one place and wish to continue working elsewhere, turn off the engine, lift the unit, and carry it away, paying attention to the blade.
- Never forget to put the guard on the blades.
- If you need to transport the machine far, remove the blade and tie the unit securely with ropes.

Operation (For LRT-EX only)

WARNING

This product is equipped with extremely sharp blades, so in case of improper use these blades can be extremely dangerous, and improper handling can cause accidents resulting in serious or fatal injuries. For this reason, you should always be careful to follow the following instructions while using your trimmer.

- Never hold the trimmer so that the blades are pointed toward someone else.
- Never allow the blades to come near your body while the engine is running.
- Always make sure to turn off the engine before changing the angle of the blades, or at any other time when you are near the blades.
- Always wear leather work gloves or other sturdy material while using the trimmer.
- Always put the blade covers supplied with the trimmer on the blades when the machine is not in use.
- To prevent cut branches from falling on your face or into your eyes, causing injuries, scratches, and cuts, always wear a helmet and face shield while using the trimmer.**



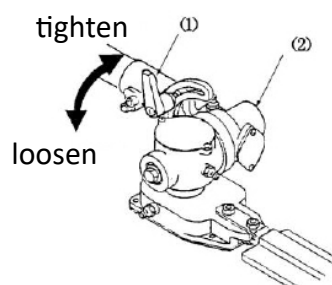
IMPORTANT

The thickness of branches that can be cut using this trimmer is limited to max. 3/16" (about 5 mm). Never try to cut branches with a thickness greater than that indicated above, as you may damage the machine.

Adjustment of the blade cutting angle

(1) Locking lever

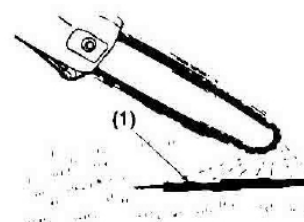
- Turn off the engine
- Turn the bolt located at the top of the trimming mechanism counterclockwise to loosen it.
- Adjust the blade angle to the desired position and then securely tighten the bolt back in place.



Operation (For PS-EX only)

Chain oil distribution check

After starting the engine, run the chain at medium speed to see if the chain oil has started to be distributed, as shown in the figure.



(1) chain oil



NOTE

The oil tank has enough capacity to ensure about 40 minutes of cutting (when set to allow a minimum flow), or for the duration of the fuel tank capacity.
Fill the oil tank every time you refuel the chainsaw.

Adjustment of oil flow rate



WARNING

Never fill the oil tank or adjust the oiler while the engine is running.



IMPORTANT

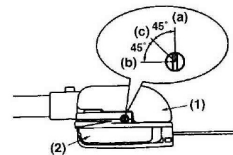
An increase in the oil flow rate will increase oil consumption, requiring more frequent checks of the oil tank.

To ensure sufficient lubrication, it may be necessary to check the oil level more often, not just when refueling.

The bar and chain are automatically lubricated by a pump that is activated when the chain rotates. This pump is factory-set to ensure a minimum flow rate, but it can also be adjusted in the field. A temporary increase in oil flow is often desired when cutting hard wood or large diameter wood.

Adjust the pump as follows:

1. Stop the engine and make sure that the switch "stop" is in "OFF".
2. Place the unit on its side with the oil tank facing up.



1. oil tank
2. chain cover



IMPORTANT

The oil flow adjustment screw must be pressed lightly to turn it. Failure to do so may damage the pump and the screw.

With a screwdriver, press on the oil flow rate adjustment screw and turn it in the desired direction (there are three types of adjustment):

- a) Clockwise to decrease lubrication
- b) Counterclockwise to increase lubrication
- c) In the middle



WARNING

- Always wear leather work gloves or other sturdy material while operating the pruner.
- To prevent cut branches from falling on your face or into your eyes, causing injuries, scratches, and cuts, always wear a helmet and face shield when using the pruner.

9. Maintenance

WARNING

- Make sure the engine is stopped and cooled before performing any maintenance on the machine. Contact with the moving head or the very hot muffler can cause injuries.

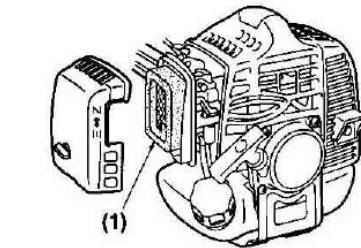
AIR FILTER

If the air filter is clogged, it will reduce engine performance.

Check and clean the filter element with warm soapy water

Dry completely before installing

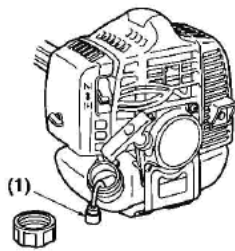
If the element is broken or shrunken, replace it with a new one.



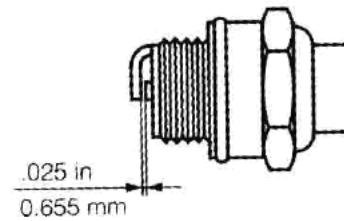
(1) Air filter

FUEL FILTER

If the engine runs out of fuel supply, check the fuel cap and fuel filter for blockage.



(1) Fuel filter



SPARK PLUG

Failure to start and ignite is often caused by a dirty spark plug.

Clean the spark plug and check that the gap between the electrodes is within the correct limits.

For spark plug replacement, use the correct type as specified.

! IMPORTANT

- Note that if you use a spark plug other than the designated one, this may compromise the proper functioning of the engine; the engine may also overheat and become damaged.
- To install the spark plug, first turn the spark plug until it is tight, then tighten it another quarter turn with a wrench. TIGHTENING TORQUE: (9.8-11.8 Nm)

MUFFLER

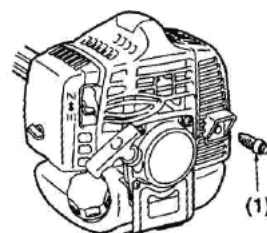


WARNING

- Periodically check the muffler; the closure must not be loose, check that there is no damage or corrosion. If there are signs of muffler damage, stop the machine and have it repaired immediately.
- If this is not done, the engine could catch fire.

SPARK ARRESTER

- The muffler is equipped with a spark arrester that prevents debris from escaping from the muffler exhaust pipe. Please inspect and clean the part periodically, if necessary also using a wire brush.



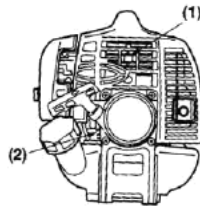
spark arrester

COOLING AIR INTAKE



WARNING

- Never touch the cylinder, muffler, or spark plugs with bare hands immediately after turning off the engine. The engine can become very hot when running and you can get burned if you touch the parts.
- When checking the machine, make sure everything is working properly before using it. Check the area around the muffler and remove any wood chips or leaves that may have stuck to the brushcutter. If this is not done, the muffler could overheat and the engine could catch fire. Before using the machine, always make sure that the muffler is clean and free from wood chips, leaves, and other dirt.
- Check the cooling air intakes and the area around the cylinder cooling fins every 25 hours of use. Remove any kind of dirt that has stuck to the brushcutter. Please note that it is necessary to remove the highlighted engine cover in order to clearly see the top of the cylinder.



- (1) Cylinder
(2) Cooling air intake (black)



IMPORTANT

If dirt remains stuck and creates a barrier around the cooling air intake or between the cylinder fins, this could cause the engine to overheat and, in turn, could cause mechanical failures in a part of the brushcutter.

PROCEDURES TO BE CARRIED OUT AFTER EVERY 100 HOURS OF USE

1. Remove the muffler from the cylinder and use a screwdriver to remove deposits from both the exhaust pipe and the gas intake manifold; also clean the cylinder exhaust manifold, taking special care not to let debris enter inside.
2. Tighten the screws, bolts, and accessories.
3. Check to see that oil or grease has not accumulated between the clutch shoes and the clutch drum; if this happens, dry using oil-free and unleaded gasoline.



Maintenance (Only for BC EX)

NYLON LINE REFILL

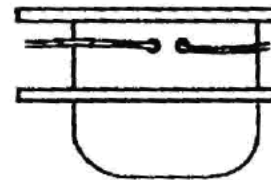
1. For line replacement, use a diameter of 22.5 mm. Avoid using a thicker line because it could reduce cutting performance.



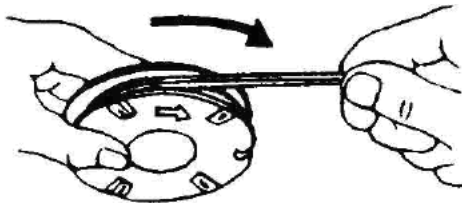
WARNING

For safety reasons, do not use reinforced metal line.

2. Press the area with the catches on both sides of the spool housing to release the cover upper



3. Remove the spool and take out the old line. Insert one end of the new line through the holes in the spool and pull until the length of the line is equal on both sides.
4. Wind the line in the correct position as indicated on the spool.



5. Hook each end of the line into the notch on the edge of the spool and then insert the ends into the line guide bushings on the housing. Make sure that the spring and washers are properly positioned.
6. While holding the spool against the housing, pull the ends of the line to release them from the notch.
7. Align the catch of the upper cover with the hook on the lower housing. Press the cover until you hear it click.

BEVEL GEAR

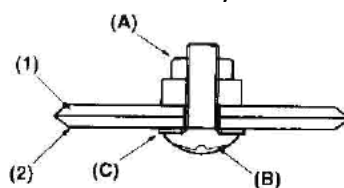
- The reducers are lubricated with a lithium-based multipurpose grease in the bevel gear. Every 25 hours of use, grease the bevel gear or grease it more frequently depending on working conditions.
- Remove the blade holders before adding new grease to expel the old one.

Maintenance (Only for LRT-EX)

BLADES

- It is advisable to oil the blades every time you stop work to refuel or to rest.
- If there is a gap between the upper and lower blades, follow the procedure described here to reset them:

1. Loosen the fixing nut (A) as shown in the figure.
2. Tighten the screw (B) completely, and then loosen it by one third to half a turn.



(1) Upper blade
(2) Lower blade

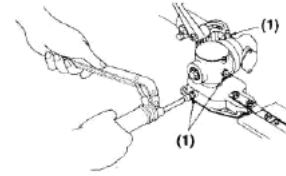
1. While holding the screw in place, tighten the fastening nut.
2. Check that the washer (C) is loose enough to be turned with a finger.

NOTE

Tightening the screw too firmly may prevent the blades from moving. On the other hand, loosening the screw too much may leave the blades too loose, and leaves and branches could get stuck in the space between them.

BEVEL GEAR

The bevel gear set is lubricated with multi-purpose lithium-based grease. Add new grease every 25 working hours or more frequently, depending on working conditions.



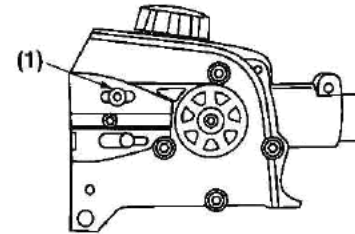
lubrication fitting

When adding new lubricant, use a grease gun to insert grease into the three fittings of the bevel gear set.

Maintenance (Only for LRT-EX)

OIL OPENING

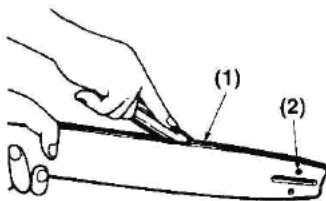
Remove the bar and check that the oil opening is not blocked.



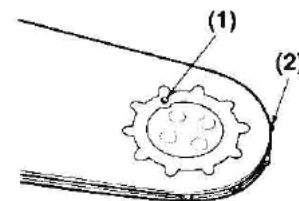
lubrication hole

BAR

Remove dust from the grooves and the oil opening.

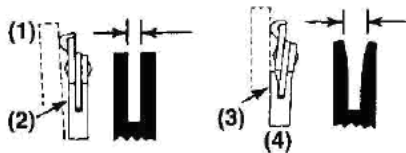


(1) Groove
(2) Lubrication hole

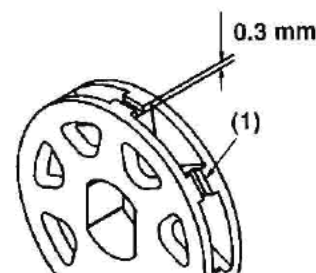


(1) Oil port
(2) Sprocket

Oil the teeth of the bar starting from the front end. The groove should always be square. Pay attention to any wear on the groove. Place a ruler against the bar and the outside of the chain teeth. If there is a gap between the ruler and the bar, the groove is adequate. Otherwise, the groove is worn. A bar in these conditions should be repaired or replaced.



1. Ruler
2. Gap
3. No gap
4. Chain this



11. Sprocket

CHAIN TEETH

Check for any wear on the chain and replace it when the teeth are worn down by more than 0.3 mm.

CHAIN



For smooth and safe operation, it is very important to always keep the chain sharp. The chain should be sharpened when:

- The sawdust produced becomes powder-like
- You have to force more than usual to cut
- The cut is not straight
- Vibrations increase
- Fuel consumption increases

Safety instructions:



WARNING

Wear work gloves.

Before refueling:

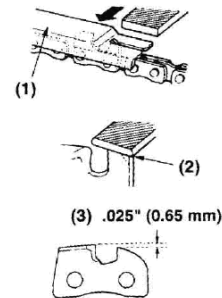
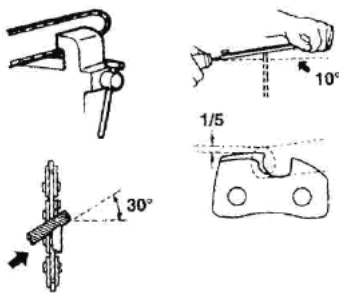
- Make sure the chain is securely fastened.
- Make sure the engine is off.
- Use a round file of the appropriate size for your chain.

Place the file on the cutting tooth and push forward.

Keep the file position as shown in the image.

After each cutting tooth has been filed, check the depth gauge and file it to the appropriate level as shown in the illustration:

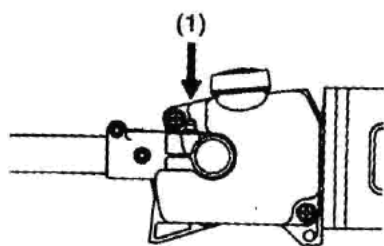
1. Appropriate depth gauge
2. Smooth the edge
3. Depth gauge standard



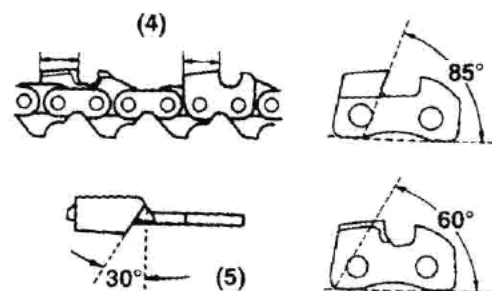
WARNING

Be sure to round off the front edge to reduce the risk of kickback or breakage.

Make sure that each cutting tooth has the same length and the same cutting angle as shown



1. Greaser



4. Blade length
5. Fillet angle
6. Side plate angle
7. Top plate cutting angle

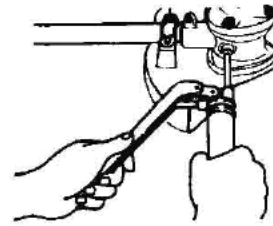
BEVEL GEAR

The bevel gear set is lubricated with multi-purpose lithium-based grease. Add new grease every 25 working hours or more frequently, depending on working conditions.

When adding new lubricant, use a grease gun to insert grease into the three fittings of the bevel gear set.

Maintenance (Only for HE -EX)

BEVEL GEAR



- The bevel gears are lubricated with lithium-based multipurpose grease. Add new grease every 20 working hours or more frequently, depending on working conditions.
- When adding new lubricant, use a grease gun to insert grease into the three fittings of the bevel gear set.

NOTE

When removing the cutting attachment, make sure that dust or dirt does not enter the bevel gear.

10. Storage

Old fuel is one of the main causes of engine starting difficulties. Before putting away the device, empty the tank and run the engine until it has used up all the fuel left in the carburetor. Store the device indoors, taking the necessary precautions to prevent rust formation.

11. Troubleshooting

Case 1: Starting difficulties

INSPECTION	PROBABLE CAUSE	ACTION
Tank	Incorrect fuel	Remove the incorrect fuel and refill with the correct one
Fuel filter	Blocked filter	Clean the filter
Carburetor adjustment screw	Out of position	Adjust to the correct position
Spark plug	The spark plug is dirty / wet Electrode gap	Clean / dry Adjust to (0.6 0.7)
Spark plug	Disconnected	Reconnect

Case 1: The engine starts but does not stay running/difficulty restarting it

INSPECTION	PROBABLE CAUSE	ACTION
Tank	Incorrect or old fuel	Remove the incorrect fuel and refill with the correct one
Carburetor adjustment screw	Out of position	Adjust to the correct position
Muffler, cylinder (exhaust port)	Residue has accumulated	Clean
Air filter	Obstructed by dust	Wash
Cylinder fin, flywheel cover	Obstructed by dust	Clean

If the device requires further maintenance, contact the nearest service center.

(GB) EC DECLARATION OF CONFORMITY FOR MACHINERY ACCORDING TO 2006/42 Annex II A – 2014/30 – 2000/14 /EC – 2002/44
 (D) HERSTELLERERKLÄRUNG FÜR MASCHINE GEMÄß 2006/42 Annex II A – 2014/30 – 2000/14 /EG – 2002/44/EG
 (F) DECLARATION 'CE' DE CONFORMITÉ POUR LES MACHINES SUIVANT LA DIRECTIVE 2006/42 Annex II A – 2014/30 – 2000/14 /CE – 2002/44/CE
 (E) DECLARACION DE CONFORMIDAD PARA MAQUINARIA DE ACUERDO CON LA 2006/42 Annex II A – 2014/30 – 2000/14 /CE – 2002/44/CE
 (I) DICHIARAZIONE DI CONFORMITÀ EUROPEA PER LE MACCHINE SECONDO LA DIRETTIVA 2006/42 Allegato II A – 2014/30 – 2000/14 /CE – 2002/44/CE
 (NL) EG GELIJKVORMIGHEIDSVERKLARING VOOR MACHINES VOLGENS 2006/42 Annex II A – 2014/30 – 2000/14 /EG – 2002/44/EG
 (DK) EC DEKLARATION I OVERENSSTEMMELSE MED MASKINDIREKTIVET 2006/42 Annex II A – 2014/30 – 2000/14 /EC – 2002/44/EF
 (P) DECLARAÇÃO CE DE CONFORMIDADE PARA DE MAQUINAS, DE ACORDO COM A DIRECTIVA 2006/42 Annex II A – 2014/30 – 2000/14 /CE – 2002/44/CE
 (FIN) EY ILMOITUS KONEEN YHDENMUKAISUUDESTA 2006/42 Annex II A – 2014/30 – 2000/14 /ETY – 2002/44/EY
 (S) FORSAKRAN OM ÖVERENSSTÄMMELSE ENLIGT 2006/42 Annex II A – 2014/30 – 2000/14 /EC – 2002/44/ES
 (N) BEKREFTENDE EU ERKLÆRING FOR MASKINER I HENHOLD TIL 2006/42 Annex II A – 2014/30 – 2000/14 /EØF – 2002/44/EG

MANUFACTURER – HERSTELLER – FABRICANT – FABRICANTE – COSTRUTTORE – CONSTRUCTEUR – PRODUCTENT – FABRICANTE – VALMISTAJA – TILVERKARE – FABRIKANT – ΚΑΤΑΣΚΕΥΑΣΤΗΣ – PRODUCENT:

BLUE BIRD INDUSTRIES – FABBRICA MOTORI s.r.l.
 VIA DUE CAMINI, 19 - 36010 ZANE' (VI) - ITALY

DESCRIPTION OF THE MACHINERY – BESCHREIBUNG DER MASCHINE – DESCRIPTION DE LA MACHINE – DESCRIPCION DE LA MAQUINARIA – DESCRIZIONE DELLA MACCHINA – BESCHRIJVING VAN DE MACHINE – BESKRIVELSE AF MASKINEN – DESCRIÇÃO DA MAQUINA – KONEEN NIMITYS – MATERIELSLAG – BESKRIVELSE AV MASKINERIE – ΠΕΡΙΓΡΑΦΗ ΤΟΥ ΜΗΧΑΝΗΜΑΤΟΣ – OPIS MASZYN:

MAKE – FABRIKAT – MARQUE – MARCA – MARCA – MERK – MÆRKE – MARCA – MERKKI – FABRIKAT – FABRIKANT – MAPKA – MARKA:

BLUE BIRD INDUSTRIES

TYPE / TYP / TYPE / TIPO / TIPO / TYPE / TYPE / TIPO / MALLI / TYPBE / TYPE / ΤΥΠΟΣ / TYP:

Combi 261 / Combi 341 / Combi 280 / Combi 370 / EHO 25 / EHO 35

(2000/14/EC) – Livelli di potenza sonora come da allegato V – Sound Power Levels performed per annex V		
TIPO TYPE	Livello di potenza sonora misurato Measured Sound Power Level (dB)	Livello di potenza sonora garantito Guaranteed Sound Power Level L _{WA} (dB)
Combi 261/Combi 341/Combi 280/ Combi 370/ EHO 25/EHO 35	110	114

SERIAL NUMBER / SERIENUMBER / NUMERO DE SERIE / NUMERO DE SERIE / NUMERO DI SERIE / SERIENUMMER / SERIENUMMER / NUMERO DE SERIE / SARJANUMERO / SERIENUMMER / SERIE NUMBER / ΑΡΙΘΜΟΣ ΠΛΑΙΣΙΟΥ / NUMER SERYJNY:
 AA19AA00000001-ZZ23ZZ999999999

REFERENCE TO HARMONIZED STANDARDS / VERWEIS AUF HARMONISIERTE NORMEN / REFERENCE AUX NORMES HARMONISEES / REFERENCIA A ESTANDARES ARMONIZADOS / RIFERIMENTO ALLE NORME ARMONIZZATE / REFERENTIE NAAR GEHARMONISEERDE STANDAARDEN / REFERENCE TIL HARMONISEREDE STANDARDER / REFERENCIA AS NORMAS HARMONIZADAS / VITTAUS YHTEISIIN STANDARDEIHIN / REFERERANDE TILL HARMONISERADE STANDARDER / HENVISNING TIL FELLE STANDARD / ΑΝΑΦΟΡΑ ΣΕ ΕΝΑΡΜΟΝΙΣΜΕΝΑ ΔΕΔΟΜΕΝΑ / ODNIESIENIE DO NORM ZHARMONIZOWANYCH:

EN ISO 12100:2010 EN ISO 11806-1:2011 EN ISO 11680-1:2021 EN ISO 10517:2019



BLUE BIRD INDUSTRIES – FABBRICA MOTORI s.r.l.
 ZANE' (VI) – ITALIA 11/01/2021
 The chairman – Der vorsitzender – Le président – El presidente – Il presidente
 – De voorzitter – Daglig leder – O presidente – Toimitusjohtaja –
 Verkställande direktör – Administrerende direktør – Ο ΠΡΟΕΔΡΟΣ – Prezes

VANDA VITELLA

(GB) Technical documentation maintained by
 (F) Documentation technique maintenue par
 (I) Documentazione tecnica conservata da
 (DK) Teknisk dokumentation tillhandhallen av
 (FI) Teknisten asiakirjojen ylläpitäjä
 (NO) Teknisk dokumentasjon vedlikeholdt av
 (PL) Dokumentacja techniczna utrzymywana przez

(D) Technische Dokumentation aktualisiert durch
 (E) Documentacion tecnica mantenida por
 (NL) Technische documentatie onderhouden door
 (P) Documentação tecnica mantida por
 (SE) Teknisk dokumentation tillhandhallen av
 (GR) τεχνικό φάκελο που τηρείται από

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 ZANE' (VI) – ITALIA

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