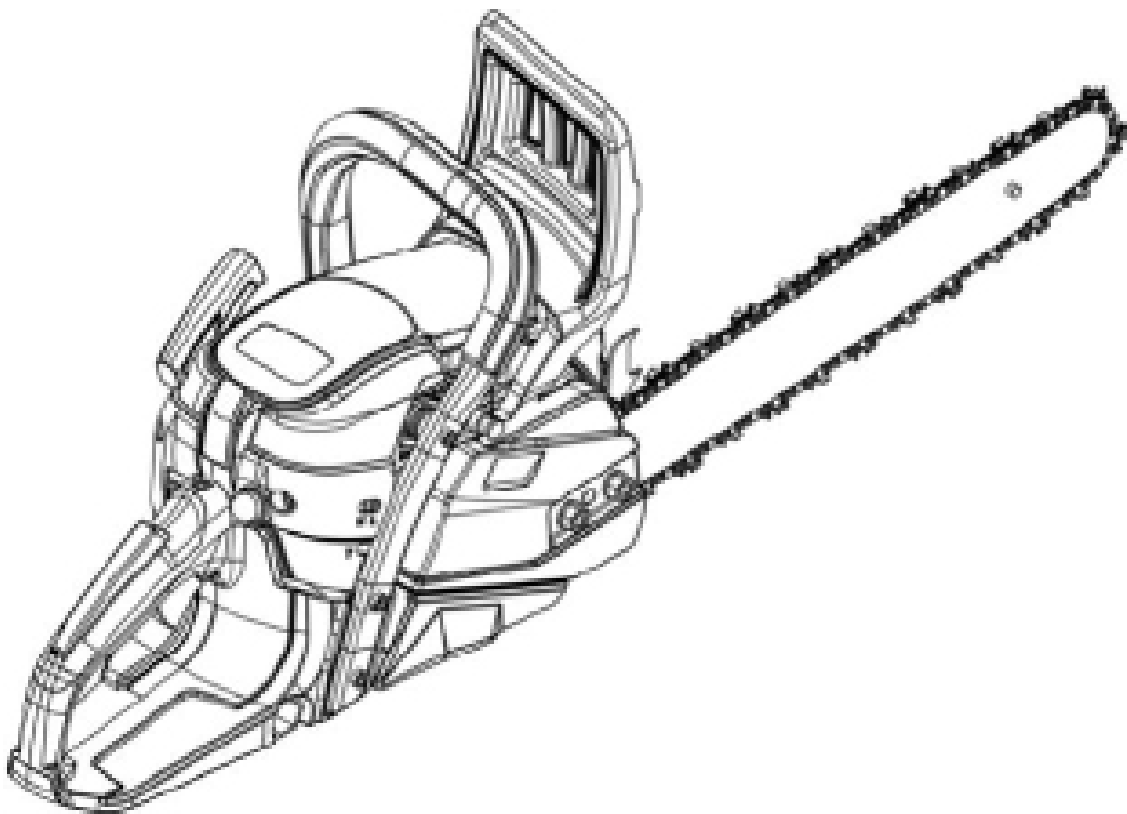


BLUEBIRD INDUSTRIES

CHAINSAW CSP 500-550



INSTRUCTIONS FOR USE



WARNING

- Before using our products, carefully read this manual to understand the correct use of the device.
- Keep this manual handy.



SAFETY FIRST

The instructions contained in the warnings within this manual, marked with a symbol, concern critical points that must be considered to prevent serious personal injury. For this reason, please read all instructions carefully and follow them scrupulously.

- WARNINGS IN THE MANUAL



WARNING

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



IMPORTANT

This symbol indicates instructions that must be followed, or it may lead to mechanical failures, malfunctions, or damage.



NOTE

This mark indicates helpful tips or guidance for using the product.

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Contents



Warning! Read these notes before starting to work with the saw and keep them.

Read the instructions carefully. Familiarize yourself with the control elements so that you can use the device safely. Always keep these instructions for use together with the chainsaw.

Warning! Risk of hearing damage. Under normal operating conditions, this device may expose the operator to a noise level equal to or greater than 80 dB(A). The chainsaw must be held with the right hand on the rear handle and the left hand on the front handle.

Caution: Noise protection! Please observe local regulations when using the device.

Intended/unintended use:

The chainsaw is suitable for logs, squared timber, and for cutting branches, depending on the available cutting length. Only wooden materials may be processed. During use, adequate personal protective equipment (PPE) is required according to the instructions for use. This product is designed for use by a trained operator for felling, log cutting, and limbing. The user/operator is responsible for any damage or injury resulting from improper application, not the manufacturer. Suitable saw chains and guide bar combinations may be used as indicated in the instructions exclusively when operating the machine. Part of the intended use also includes attention to safety references, as well as the instructions for use. Machine operators must be trained and become familiar with this product, and consider all possible hazards. In addition, the applicable rules for accident prevention must be observed in every detail. Other general rules in the fields of occupational medicine and safety must also be taken into consideration. Modifications made to the machine completely void manufacturer support, and any resulting damage will void the warranty. This device is designed for use in the home garden.

Notice on residual risks

Even when it is appropriate to use the tool, there is always a certain residual risk that cannot be eliminated. From the type and construction of the tool, the following potential hazards can be identified:

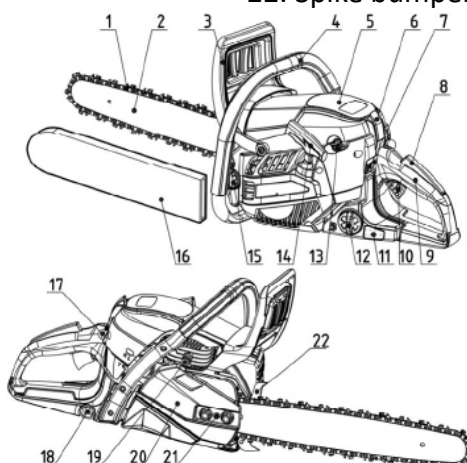
- Contact with the unprotected cutting chain (cuts)
- Sudden and unexpected movement of the cutting blade (cuts)
- Ear damage if the prescribed hearing protection is not used
- Inhalation of poisonous particles, exhaust gases from the combustion engine
- Contact of gasoline with the skin
- Noise. A certain degree of machine noise is unavoidable. Noisy work along the route must be authorized and limited to specific periods. Observe rest periods, and it may be necessary to minimize working hours. For personal protection and for those working nearby, appropriate hearing protection must be worn;
- Vibrations. Warning: The actual vibration emission value during use of the machine may differ from that specified in the manufacturer's manual. This may be caused by the following factors, which should be considered before or during each use:
 - If the machine is used correctly
 - The method of cutting the material and how it is properly processed.
 - The use and condition of the machine is in accordance with regulations
 - Condition of the cutting tool's sharpness
 - The handle grips are reassembled onto the optional vibration handles and attached to the body of the machine.

If you notice an unpleasant sensation or discoloration of the skin on your hands during or after using the machine. Take an appropriate work break. Without adequate work breaks, hand-arm vibration syndrome may occur.

Warning: National regulations (occupational safety and health, environment) may exist that can limit the use of the chainsaw.

1. Position of the components

- | | |
|------------------------|---------------------------------------|
| 1. Saw chain | 12. Fuel tank cap |
| 2. Guide bar | 13. Starter knob |
| 3. Front hand guard | 14. Starter handle |
| 4. Front handle | 15. Oil tank cap |
| 5. Cylinder protection | 16. Guide bar cover |
| 6. Locking lever | 17. Carburetor pump |
| 7. Engine switch | 18. Spark plug wrench |
| 8. Trigger lock | 19. Decompression valve (if provided) |
| 9. Rear handle | 20. Clutch cover |
| 10. Trigger | 21. Chain tensioner |
| 11. Viewing window | 22. Spike bumper |



2. Symbols on the machine



(1) Read, understand, and follow all warnings.



(2) Caution! Risk of kickback. Beware of chainsaw kickback and avoid contact with the tip of the bar.



(3) Do not operate the chainsaw with one hand.



(4) Always use the chainsaw with both hands.



(5) Appropriate protection for ears, eyes, and head must be worn.



(6) Read the operator's instruction manual before using this machine.



(7) Always wear safety and anti-vibration (AV) gloves when using the device.



(8) Always wear safety and non-slip boots when using the device.

2. Symbols on the machine

For safe operation and maintenance, the symbols are embossed on the machine. Based on these instructions, please be careful not to make mistakes.



(a). The “MIXED FUEL” refueling port
Location: near the tank cap



(b). The chain oil refueling port
Location: near the oil cap



(c). Operate the engine switch by turning the switch to the “O” position, the engine stops immediately; “O” and “I” are displayed on the switch button.
Position: rear, on the left side of the rear handle



(d). Operate the choke knob: turn the choke knob counterclockwise to close the choke; turn the choke knob clockwise to open the choke.
Location: Near the air filter cover



(e). Adjust the oil pump. If you turn the rod with a screwdriver, follow the arrow until the “MAX” position, the chain oil flows more; if you turn it to the “MIN” position, it flows less.
Position: Bottom of the power unit



(f). The screw below the “H” mark is the high-speed mixture adjustment screw. The screw below the “L” mark is the low-speed mixture adjustment screw. The screw above the “T” mark is the idle speed adjustment screw.
Location: upper left of the rear handle



(g). Indicates the directions in which the chain brake is released (white arrow) and engaged (black arrow).
Location: Front part of the chain cover



(h). Shows the mounting direction of the saw chain.
Location: Front part of the chain cover



(i). Guaranteed sound power level for this device



(j). Manual engine start.



Decompression valve (if provided) Press the decompression valve button to open the valve.

3. For safe operation

- Before operating the product

1. Before using our products, carefully read this manual to understand the correct use of the device.

2. Never operate a chainsaw when you are tired, ill, upset, under the influence of medication that may cause drowsiness, or if you are under the influence of alcohol or drugs.

3. Use the chainsaw only in well-ventilated areas. Never start or operate the engine inside a room or enclosed building. Exhaust fumes contain dangerous carbon monoxide. Lubricating oil mist and sawdust are toxic to the operator.

4. Never cut in strong wind, bad weather, poor visibility, or in very high or low temperatures. Always check the tree to ensure there are no dead branches that could fall during felling.

5. Wear safety and non-slip footwear, close-fitting clothing, and protective equipment for eyes, ears, and head. Use the anti-vibration (AV) glove. A condition called Raynaud's phenomenon, which affects the fingers of some individuals, is believed to be caused by exposure to vibration and cold. Loss of color and numbness in the fingers. The following precautions are strongly recommended because the minimum exposure that could trigger the disorder is unknown. Keep your body warm, especially your head, neck, feet, ankles, hands, and wrists. Maintain good blood circulation by performing vigorous arm exercises during frequent work breaks and by avoiding smoking. Keep the saw chain sharp and the saw, including the AV system, well maintained. A dull chain will increase cutting time, and the pressure of a dull chain through wood will increase the vibrations transmitted to the hands. A saw with loose components or with damaged or worn AV buffers will also tend to have higher vibration levels. Limit operating hours. All of the above precautions do not guarantee that you will not suffer from white finger disease or carpal tunnel syndrome. Therefore, continuous and regular users should carefully monitor the condition of their fingers. If any of the above symptoms appear, consult a physician immediately.

6. Always be careful when handling fuel. Clean up all spills and then move the chainsaw at least three (3) meters from the fueling point before starting the engine.

7. Eliminate all sources of sparks or flames (e.g., smoking, open flames, or work that may produce sparks) in areas where fuel is mixed, poured, or stored.
Do not smoke while handling fuel or operating the chainsaw.

8. Do not allow other people to be near the chainsaw when starting the engine or cutting wood. Keep bystanders and animals out of the work area. Children, pets, and passersby must be at least 10 m away when starting or operating the chainsaw.

9. Never start cutting until you have a clear work area, a safe working environment, and a planned escape route from the falling tree.

10. Always hold the chainsaw firmly with both hands when the engine is running. Use a firm grip with your thumb and fingers encircling the chainsaw handles.

11. Keep all parts of your body away from the chainsaw chain when the engine is running. Before starting the engine, make sure the chainsaw chain is not touching anything.

12. Always carry the chainsaw with the engine off, the guide bar and chain at the rear, and the muffler away from your body.

13. Always check the chainsaw before each use to ensure there are no worn, loose, or replaced parts. Never use a chainsaw that is damaged, improperly adjusted, or not fully and securely assembled. Make sure the chainsaw chain stops moving when the trigger is released.

14. All chainsaw maintenance services, except those listed in the user manual, must be performed by the manufacturer's service center or the importer (for example, if improper tools are used to remove the flywheel, or if an improper tool is used to hold the flywheel in order to remove the clutch, structural damage to the flywheel may occur, which could subsequently cause the flywheel to disintegrate).

15. Always turn off the engine before taking it out of service.

16. Use extreme caution when cutting brush and small saplings, as thin material can catch the saw chain and be thrown toward you or pull you off balance.

17. When cutting a branch that is under tension, be careful of kickback, so you are not struck when the tension in the wood fibers is released.

18. Keep the handles dry, clean, and free of oil or fuel mixture.

19. Protect yourself from kickback. Kickback is the upward movement of the guide bar that occurs when the saw chain at the tip of the guide bar comes into contact with an object. Kickback can lead to a dangerous loss of control of the chainsaw.

3. For safe operation

20. During transport and storage of your chainsaw, make sure that the guide bar cover is in the correct position. Position the machine securely during transport to prevent fuel leaks, damage, or injury.

21. Apply only light pressure and run the engine at full speed when using the chainsaw to prevent the chainsaw from binding in the wood.

SAFETY PRECAUTIONS AGAINST KICKBACK FOR CHAINSAW USERS

WARNING

Kickback can occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Contact with the tip in some cases can cause a sudden kickback, throwing the guide bar upward and backward toward the operator. Pinching of the saw chain along the top of the guide bar can quickly push the guide bar toward the operator.



Any of these reactions can cause loss of control of the saw, which may result in serious personal injury.

- Do not rely solely on the safety devices built into your saw. As chainsaw users, you must take various measures to keep cutting operations free from accidents or injuries.



(1) With a basic understanding of kickback, you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents.



(2) Maintain a firm grip on the chainsaw with both hands, the right hand on the rear handle and the left on the front handle, when the engine is running. Use a firm grip with your thumb and fingers encircling the chainsaw handles. A firm grip will help reduce kickback and maintain control of the chainsaw. Do not leave the chainsaw unattended.

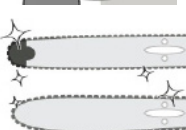


(3) Make sure the cutting area is free of obstacles. Do not allow the tip of the guide bar to touch a log, branch, or any other obstruction that could be struck while using the chainsaw.



(4) Cut at high engine speeds.

(5) Do not exceed the limit and do not cut above shoulder height.



(6) Follow the sharpening and maintenance instructions for the chainsaw chain provided by the manufacturer.

(7) Use only replacement bars and chains specified by the manufacturer or equivalent.

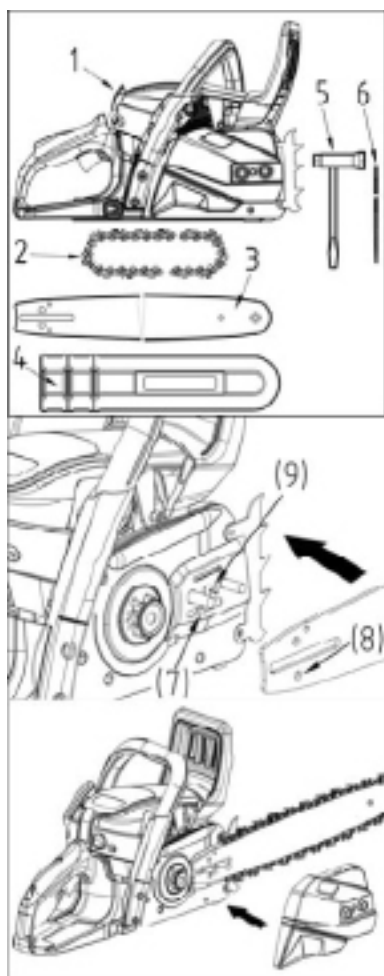
4. Installation of the guide bar and chain

WARNING

The saw chain has very sharp edges. Use protective gloves for safety. Make sure the engine is stopped before adjusting the guide bar and saw chain.

4. Installation of the guide bar and chain

The standard product package contains the following components.



- (1) Power unit
- (2) Saw chain
- (3) Guide bar
- (4) Guide bar cover
- (5) Spark plug wrench
- (6) File
- (7) Chain tensioner nut
- (8) Hole
- (9) Chain tensioner screw

Open the box and install the guide bar and saw chain onto the power unit as follows.

1. Pull the guard toward the front handle to check that the chain brake is not engaged.

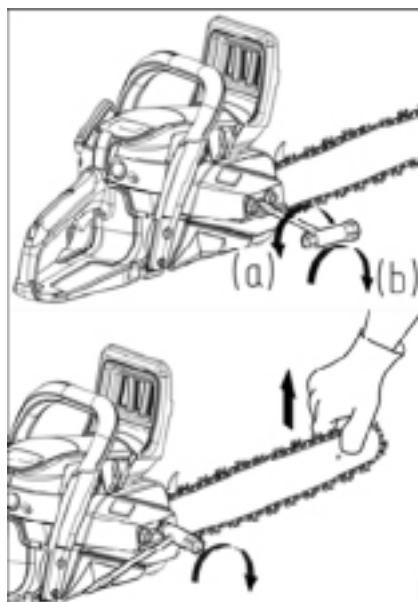
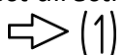
2. Loosen one nut and remove the chain cover.

3. Mount the guide bar onto the power unit; while inserting the chain tensioner nut into the lower hole of the guide bar. Engage the chain onto the sprocket and, while fitting the saw chain around the guide bar, install the clutch cover and finger-tighten two nuts.



NOTE

Be careful of the correct direction of the saw chain.



Be careful of the correct direction of the saw chain.

(1) Direction of movement

6. While holding the tip of the bar, adjust the chain tension by turning the chain tensioner screw until the tie straps just touch the underside of the guide bar.

7. Firmly tighten the nut with the tip of the bar held up (12 ~ 15 Nm). Then check that the chain rotates smoothly and that the tension is correct while moving it by hand. If necessary, readjust with the chain cover loosened.

8. Adjust the chain tensioner screw.

- (a) Turn counterclockwise: Loosen the chain
- (b) Turn clockwise: Tighten the chain

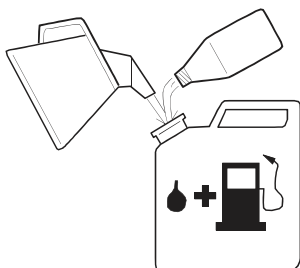
4. Installation of the guide bar and saw chain

! IMPORTANT

It is very important to maintain the correct chain tension. Rapid wear of the guide bar or the chain coming off easily can be caused by incorrect tension. Especially when using a new chain, operate it properly, as it should expand during initial use.

The spike bumper belongs to the chainsaw. It must be screwed onto the chainsaw before initial use. Attach the spike bumper with two screws to the front of the chainsaw (Figure 1).

5. Fuel and chain oil



- Fuel**

The engines are lubricated with oil specifically formulated for use in 2-stroke gasoline engines air-cooled. If the oil is not available, use a high-quality antioxidant oil with additives, specifically formulated for use with air-cooled 2-stroke engines.

RECOMMENDED MIXING RATIO GASOLINE 40: OIL 1

These engines are certified to run on unleaded gasoline.

**! WARNING**

Fuel is highly flammable. Do not smoke or bring flames or sparks near the fuel.

! IMPORTANT

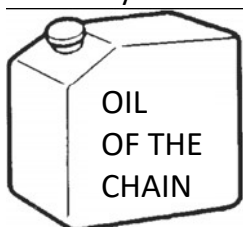
1. FUEL WITHOUT OIL (RAW GASOLINE) – Will cause severe damage to internal engine parts very quickly.
2. OIL FOR 4-CYCLE ENGINE USE or WATER-COOLED 2-CYCLE ENGINE USE – May cause spark plug fouling, exhaust port blockage, or piston ring sticking.

- HOW TO MIX FUEL**

1. Measure the amounts of gasoline and oil to be mixed.
2. Pour part of the gasoline into a clean, approved fuel container.
3. Pour in all the oil and shake well.
4. Pour in the remaining gasoline and shake again for at least one minute.
5. Clearly label the outside of the container to avoid mixing with gasoline or other containers.

- CHAIN OIL**

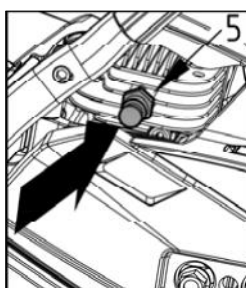
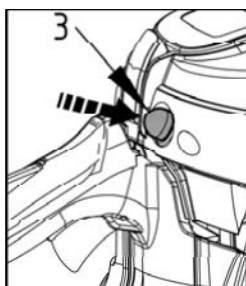
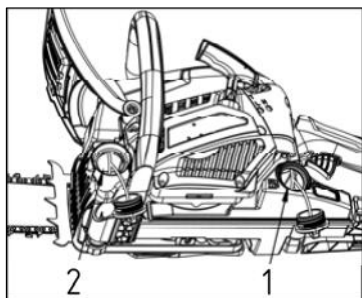
Use special chainsaw oil year-round.

**NOTE**

Be careful of the correct direction of the saw chain.

6. Operation

• ENGINE STARTING



Cold start: A “cold” engine start means starting it at least 10 minutes after it has been turned off or after refueling.

1. Loosen the fuel cap and oil cap well, but do not remove them from the machine, just hang them.
2. Fill the fuel tank and oil tank with fuel and oil up to 80% of their full capacity.
3. Secure both caps tightly and clean up any fuel spillage around the unit.
4. Continuously press the primer pump until fuel enters the pump.
5. Turn the choke knob clockwise. The choke closes and the throttle trigger moves to the starting position.

- (1) Fuel tank cap
- (2) Fuel tank cap
- (3) Primer pump
- (4) Choke knob
- (5) Decompression valve (if provided)



NOTE

When restarting immediately after stopping the engine, set the choke to the open position.

6. Press the decompression valve button. (If provided) When priming, the decompression valve automatically returns to the closed position; you must press the decompression valve button before each start.

7. Push the front handle guard downward toward the front to activate the chain brake.

8. Holding the chainsaw firmly on the ground, grasp the starter handle, pull the cord slowly with your right hand until you feel some resistance (the engagement of the starter pawls), and now pull the cord quickly and forcefully. **Do not wrap the starter rope around your hand at any time.**

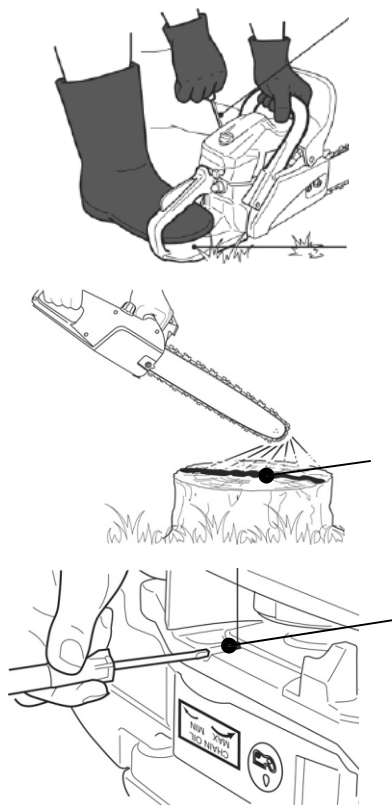
9. At the first priming, turn the choke knob counter-clockwise to open the choke.

Note: by manually setting the choke, it is possible to temporarily set the throttle in a partially open position to facilitate starting.

10. Hold the chainsaw firmly on the ground and repeat the operation by pulling the cord until the engine starts.

11. Pull up the front handle guard to release the brake. Then, let the engine warm up with the trigger slightly pulled.

6. Operation


! WARNING

Before starting the engine, make sure that the chain of the chainsaw is not touching anything. Make sure that the chain brake is always engaged before each start.

Hot start:

To hot start the engine immediately after for stopping, follow steps 1 - 2 - 3 - 3 - 4 - 6 - 7 - 10 - 11 of the procedure described above, making sure that the primer pump is activated only 2-3 times.

OIL SUPPLY CHECK

After starting the engine, run the chain at medium speed and check if the chain oil is being distributed as shown in the figure. Chain oil The chain oil flow can be adjusted by inserting a screwdriver into the hole at the bottom of the clutch side. Adjust according to working conditions.

Chain oil flow adjustment shaft

Turn the shaft clockwise - Rich flow

Turn the shaft counterclockwise – Low flow

! IMPORTANT

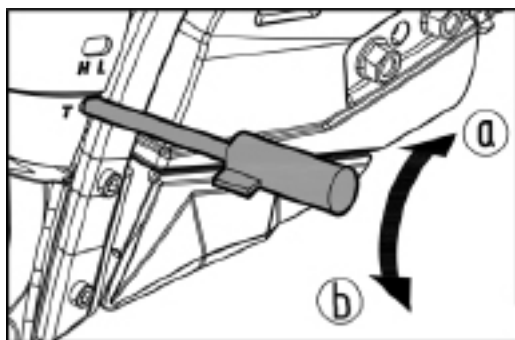
The oil tank should be nearly empty when the fuel runs out. Be sure to refill the oil tank every time you refuel the chainsaw.

• CLUTCH OPERATION CHECK

Before each use, confirm that there is no chain movement when the chainsaw is idling.

• CARBURETOR ADJUSTMENT

The unit's carburetor has been factory adjusted, but may require fine-tuning due to changing operating conditions. If the carburetor needs adjustment, contact your dealer or the manufacturer's or importer's service center. Do not adjust it yourself. Before adjusting the carburetor, make sure that clean air/fuel filters are installed and that fresh, properly mixed fuel is used.



During adjustment, proceed as follows:

! IMPORTANT

Be sure to adjust the carburetor with the guide bar and chain attached.

1. The H and L needles are adjusted only by authorized personnel. The adjustable range is limited within the number of turns as shown below.

H needle -1/4 L needle -1/4

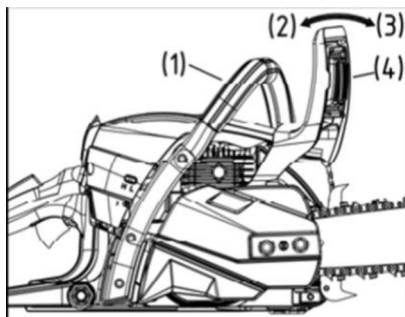
2. Start the engine and let it warm up at low speed for a few minutes.

3. Turn the idle adjustment screw ob counterclockwise so that the saw chain does not rotate. If the idle speed is too low, turn the screw oa clockwise.

4. Perform a cutting test by adjusting the H needle to achieve the best cutting power, not the highest speed.

(T) Idle adjustment screw (L) Low-speed needle (H) High-speed needle

6. Operation



- **CHAIN BRAKE**

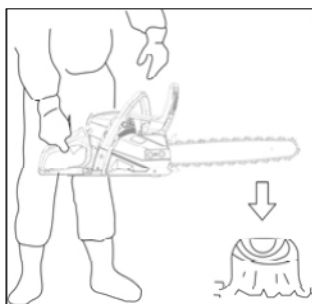
The chain brake is a device that instantly stops the chain if the chainsaw kicks back due to recoil.

- (1) Front handle
- (2) Release
- (3) Brake
- (4) Front handle guard

Normally, the brake is activated automatically by inertial force. It can also be activated manually by pushing the brake lever (front handle guard) downward toward the front. When the brake is engaged, a white cone appears at the base of the brake lever. To release the brake, pull the front handle guard upward toward the front handle until you hear a “click” sound.

**WARNING**

When the brake is engaged, release the throttle lever to slow down the engine speed. Continuous operation with the brake engaged generates heat from the clutch and may cause problems. Be sure to check the brake operation during daily inspection.

**How to confirm:**

- 1) Turn off the engine.
 - 2) While holding the chainsaw in a horizontal position, release your hand from the front handle, strike the tip of the guide bar against a stump or a piece of wood, and confirm the operation of the brake. The level of operation varies depending on the size of the bar.
- If the brake is not effective, have our dealer inspect and repair it.

- **ANTI-FREEZE WINDOW**

Operating chainsaws at temperatures between -25°C and 0°C during periods of high humidity can cause ice to form inside the carburetor, which in turn may result in reduced engine output or engine failure. This product has therefore been designed with an anti-freeze window on the cylinder cover to allow warm air to be supplied to the carburetor chamber and thus prevent ice formation.



Under normal circumstances, the anti-freeze window should be set to the closed position. In this case, the label “SUN” faces outward.



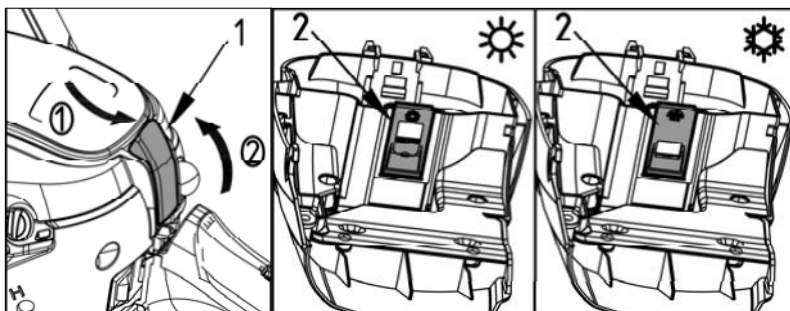
However, when there is a possibility of ice formation, the anti-freeze window must be set to the open position before use. In this case, the label “SNOW” faces outward.

Continuing to use the product in anti-freeze mode even after temperatures have risen and returned to normal may result in the engine failing to start properly or not running at its normal speed. For this reason, you should always ensure that the anti-freeze window is set to the closed position if there is no risk of ice formation.

HOW TO SWITCH BETWEEN OPERATING MODES

1. Press the left side of the engine switch to turn off the engine.
2. Pull out the upper side of the locking lever (1) (step ①), then pull the locking lever upward to unlock it (step ②).
3. Pull the cylinder cover backward and remove it.
4. Remove the anti-freeze window (2), then flip it over and push it back into the cylinder cover.

6. Operation



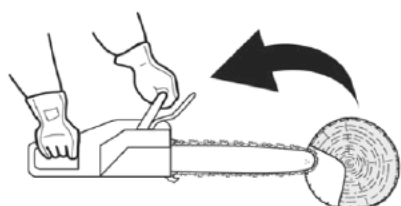
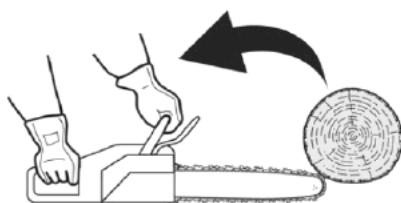
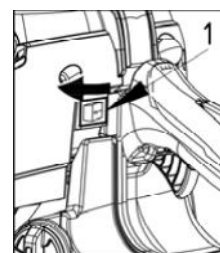
5. Reinstall the cylinder cover and secure it firmly.

- **Engine shutdown**

1. Release the throttle trigger to allow the engine to idle for a few minutes.

2. Press the left side of the switch.

(1) Engine switch



WARNING

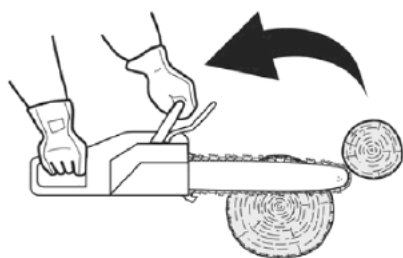
Before starting work, read the section “For Safe Operation.” It is recommended to first practice cutting easy-to-handle logs. This also helps you get used to operating the equipment.

Always observe all safety regulations that may restrict the use of the device. The chainsaw must be used only for cutting wood. It is forbidden to cut other types of material. Vibrations and kickback vary depending on the material and if safety requirements are not met. Do not use the chainsaw as a lever to lift, move, or split objects. Do not secure it to fixed stands. It is prohibited to attach tools or applications to the power take-off that are not specified by the manufacturer.

It is not necessary to force the chainsaw during cutting. Apply only light pressure while operating the engine at full throttle. It is recommended to perform a daily inspection before use and after dropping or other impacts to identify significant damage or defects.

Running the engine with the chain locked in a cut can damage the clutch system. When the saw chain is stuck in the cut, do not try to pull it out by force, but use a wedge or lever to open the cut.

7. Sawing

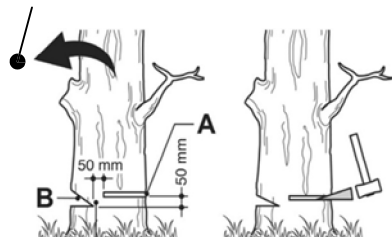


- **Protect yourself from kickback.**

This saw is also equipped with a chain brake that, if functioning properly, stops the chain in the event of kickback. Before each use, check the operation of the chain brake by running the chainsaw at full speed for 1 or 2 seconds and pushing the front hand guard forward. The chain should stop immediately with the engine at full throttle. If the chain is slow to stop or does not stop, contact the manufacturer's or importer's service center to replace the brake band and clutch drum before use.

It is extremely important that the chain brake is checked for proper operation before each use and that the chain is sharpened to maintain the anti-kickback safety level of this saw. The removal of safety devices, improper maintenance, or incorrect replacement of the bar or chain can increase the risk of serious personal injury due to kickback.

Felling Direction



- **Felling a Tree**

1. Decide the felling direction by considering the wind, the tree's lean, the position of heavy branches, ease of work after felling, and other factors.
2. While clearing the area around the tree, arrange a good foothold and an escape route.
3. Make a notch cut one third of the way into the tree on the felling side.
4. Make the felling cut from the opposite side of the notch and at a slightly higher level than the bottom of the notch.

When felling a tree, be sure to warn nearby workers of the danger.

(A) Felling Cut
(B) Notch Cut

- **CUTTING AND TRANSPORTING WOOD AND LIMBING**



WARNING

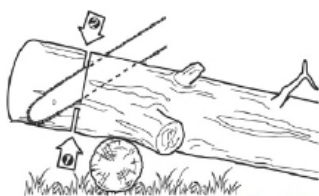
1. Always make sure you have a foothold and the stability of the tree.
2. Be careful of a cut log rolling.
3. Read the instructions in "For Safe Operation" to avoid saw kickback.

Before starting work, check the direction of the bending force inside the log to be cut.

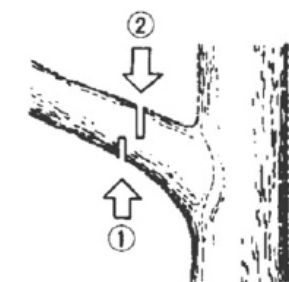
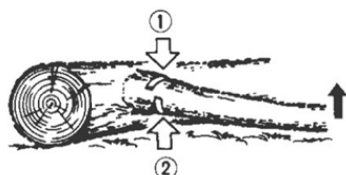
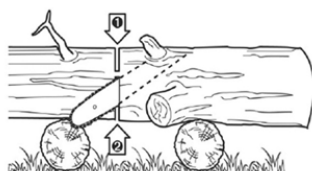
Always finish the cut from the side opposite to the bending direction to prevent the guide bar from getting stuck in the split.

Cutting a Non-Rolling Log

Cut halfway through, then roll the log and cut from the opposite side.



7. Sawing

**Cutting a rotating log**

In area A in the photo at the top right, saw upward from below for one third, then finish sawing from top to bottom. In area B, saw downward from the top for one third, then finish sawing from bottom to top.

Limbing a Felled Tree

First, check which direction the branch is bent. Then make a shallow cut on the compressed side to prevent the branch from tearing. Cut from the tensioned side.

**WARNING**

Be careful of the back side of a cut branch.

Pruning

Cut from below, finish from top to bottom.

**WARNING**

1. Do not use an unstable support point or a ladder.
2. Do not exceed the limits.
3. Do not cut above shoulder height.
4. Always use both hands to hold the saw.

**WARNING**

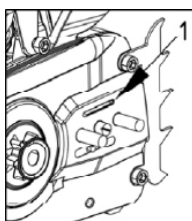
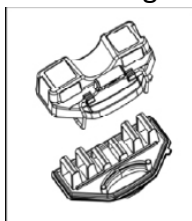
The spike bumper must always be used when operating the chainsaw on the tree trunk. Push the spike bumper into the tree trunk using the rear handle. Push the front handle in the direction of the cutting line. If necessary, the spike bumper must remain in position for further guidance of the chainsaw. Using a spike bumper when cutting thick trees and branches can ensure your safety and reduce the amount of effort and the level of vibrations. If there is a barrier between the material to be cut and the chainsaw, turn off the device. Wait until it comes to a complete stop. Wear the safety glove and remove the barrier. If the chain must be removed, follow the installation instructions in the manual. After cleaning and after reinstallation, a functional test must be performed. If vibrations or mechanical noises are detected, stop use and contact your dealer.

8. Maintenance

**WARNING**

Before cleaning, inspecting, or repairing the unit, ensure that the engine is stopped and cool. Disconnect the spark plug to prevent accidental starting. Follow the instructions for regular maintenance, pre-operation procedures, and daily maintenance routines. Inadequate maintenance can cause serious damage to the equipment.

Always keep your chainsaw in good working condition.



- **Maintenance after each use**

1. Air filter

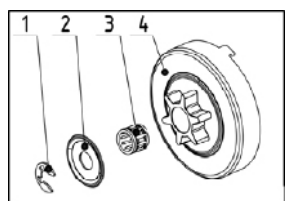
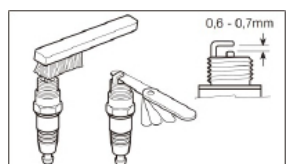
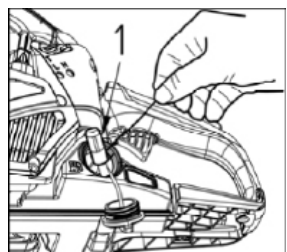
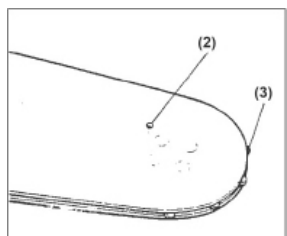
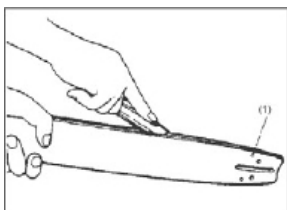
Dust on the surface of the air filter can be removed by tapping a corner of the filter against a hard surface. To clean dirt from the mesh, split the filter in half and apply gasoline. When using compressed air, blow from the inside. To assemble the filter halves, press the edge until it clicks.

2. Oil port

Remove the guide bar and check that the oil port is not clogged.

(1) Oil port

8. Maintenance

**3. Guide bar**

When the guide bar is removed, clear sawdust from the bar groove and the oil port.

Grease the nose sprocket from the feed port at the tip of the bar.

- (1) Oil port
- (2) Grease port
- (3) Sprocket

4. Others

Check for fuel leaks, loose fastenings, and damage to main parts, especially at the handle joints and guide bar mounting. If defects are found, ensure they are repaired before returning to service.

- **Periodic maintenance points**

1. Cylinder fins

Clogging of dust between the cylinder fins will cause the engine to overheat. Check and clean the cylinder fins periodically after removing the air filter and cylinder cover. When installing the cylinder cover, make sure the switch wires and grommets are properly positioned.

2. Fuel Filter

(a) Using a wire hook, pull the filter out from the filler opening.

- (1) Fuel filter
- (b) Disassemble the filter and wash it with gasoline, or replace it with a new one if necessary.

! IMPORTANT

- After removing the filter, use a hook to hold the end of the suction tube.
- When installing the filter, be careful not to leave filter fibers or dust inside the suction tube.

3. Spark Plug

Clean the electrodes with a wire brush and reset the gap to 0.6–0.7 mm if necessary.

Spark plug type: NHSP LD L8RTF or CHAMPION RCJ7Y or NGK BPMR7A

4. Sprocket

Check that there are no cracks and that there is no excessive wear that interferes with chain transmission. If wear is evident, contact your dealer or the manufacturer's/importer's service center for replacement. Never install a new chain on a worn sprocket or a worn chain on a new sprocket.

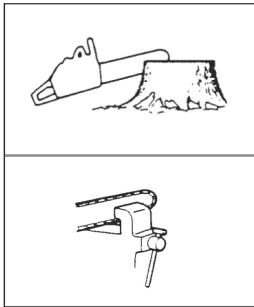
- (1) E-ring
- (2) Washer
- (3) Needle bearing
- (4) Clutch drum

8. Work with pruning chainsaws using rope and harness

5. Front and rear shock absorber spring

Replace if the spring is deformed.

Use only the replacement parts specified in this manual. Using any other replacement part may cause serious injury.



• Saw chain



WARNING

For smooth and safe operation, it is very important to keep the blades always sharp.

The blades should be sharpened when:

- The sawdust becomes powdery.
- Extra force is required to saw.
- The cutting path is not straight.
- Vibrations increase.
- Fuel consumption increases.

blade setting:



WARNING

Be sure to wear safety gloves.

Before refueling:

- Make sure the saw chain is held securely.
- Make sure the engine is stopped.

9. Maintenance

- Use a round file of the appropriate size for the chain. Chain type: Oregon 21BPX

File size: 3/16" (4.8 mm)

Place the file on the blade and push forward.

Keep the file position as illustrated.

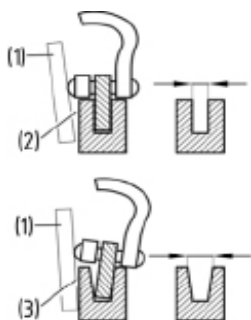
After each blade has been set, check the depth gauge and file to the correct level as illustrated.

Be sure to round off the front edge to reduce the possibility of kickback or tie-strap breakage.

Make sure each cutter has the same length and edge angles as shown.

Chain type	File Diameter	Top plate angle	Bottom angle	Head tilt angle	Standard depth gauge
		Vise rotation angle	Vise tilt angle	Side angle	
21BPX	5/32" (3.96 mm)	30°	10°	85°	0.025" (0.63 mm)
Depth gauge				File	

9. Maintenance of the saw chain and guide bar



Guide bar

- Occasionally reverse the bar to prevent wear
- The bar groove should always be square. Check the bar guide for wear. Apply a ruler to the bar and to the outside of a blade. If a gap is observed between them, the guide is normal. Otherwise, the bar guide is worn. Such a bar must be repaired or replaced.

(1) Ruler

(2) Play

(3) No play

(4) Chain tilt



WARNING

The table contains a list of all possible combinations between bar and chain, indicating those that can be used on each machine, marked with the symbol “*”.

Pitch	Guide bar				Chain	Chainsaw model		
Inches	Length Inches/cm	Width of the groove Inches/ mm	Code	Number of nose sprocket teeth	Code	Number of drive links	CSP500	CSP550
0,325"	16" /40cm	0,058" /1,5mm	Oregon 168PXBK095	10	Oregon 21BPX066X	66	*	*
0,325"	18" /45cm	0,058" /1,5mm	Oregon 188PXBK095	10	Oregon 21BPX072X	72	*	*
0,325	20" /50cm	0,058" /1,5mm	Oregon 208PXBK095	10	Oregon 21BPX078X	78	*	*

For replacement, use only the bars and chains listed above. The use of unapproved combinations may cause serious personal injury and damage to the machine.

10. Storage

- Empty the fuel tank and run the engine.
- Empty the oil tank.
- Perform cleaning and maintenance of the entire device.
- Store the device in a dry place and out of the reach of children.

11. Disposal and environmental protection

Never pour chain lubricant residues or two-stroke fuel mixture into drains, the sewage system, or the ground, but dispose of them properly and in an environmentally friendly manner, e.g., at a designated collection point or landfill. If your device becomes unusable in the future or is no longer needed, do not dispose of it with household waste, but dispose of it in an environmentally responsible manner. Empty carefully the oil/lubricant and fuel tanks and dispose of the residues at an appropriate collection point or landfill. Please also dispose of the device itself at an appropriate collection/recycling point. In this way, plastic and metal parts can be separated and recycled. Information on the disposal of materials and devices is available from your local authorities.

12. Warranty

For this petrol-powered tool, the company provides the end user—with no regard to the dealer's obligations arising from the purchase contract—the following warranties:

The warranty period is 24 months from the delivery of the device, which must be proven by the original purchase document. For commercial use and rental use, the warranty period is reduced to 12 months.

Excluded from this warranty are parts subject to wear and defects caused by the use of uninstalled accessories, repair of parts that are not original manufacturer parts, use of force, impacts and breakages, as well as intentional overloading of the engine. Warranty replacement covers only defective parts, not complete devices. Warranty repairs must be carried out exclusively by authorized service partners or the company's customer service. If unauthorized personnel intervene, the warranty becomes void.

All shipping or delivery costs, as well as any other subsequent expenses, shall be borne by the customer.

Original instructions

14. Troubleshooting Guide

PROBLEM	CAUSE	REMEDY
1) Faulty Starting	- Check for water in the fuel or poor fuel mixture - Check if the engine is flooded. - Check the spark plug.	- Replace with proper fuel - Remove and dry the spark plug - Pull the starter again without the choke - Replace with a new spark plug
2) Lack of Power/Poor Acceleration Irregular idle speed	- Check that the fuel does not contain water or poor mixture - Check if the air filter and fuel filter are clogged - Check if the carburetor is improperly adjusted	- Replace with proper fuel - Clean - Adjust the speed needles
3) Oil Does Not Flow	- Check that the oil meets quality standards - Check the oil passage and port clogging	- Clean - Replace

If the unit appears to require further assistance, please consult an authorized service center in your area.

14. Specifications

Power unit:	CSP500	CSP550
Displacement:	50,9 cm ³	54,3 cm ³
Maximum engine power:	2,2 kW	2,4 kW
Fuel:	Mixture (unleaded gasoline 40: two-stroke oil 1)	
Fuel tank capacity:	520 cm ³	
Chain oil:	Engine oil SAE#10W30	
Oil tank capacity:	250 cm ³	
Carburetor:	Diaphragm type	
Fuel consumption at maximum engine power	580 g/kW·h	560 g/kW·h
Idle speed range:	3000±300 min-1	
Maximum speed with cutting attachment:	12000 min-1	
Maximum chain speed:	23.114 m/s	
Ignition system:	variable advance coil	
Spark plug:	BOSCH L8RTF\ CHAMPION RCJ7Y	
Oil supply system:	Mechanical piston pump with regulator	
Sprocket Teeth x Pitch:	7T×8.255 mm (0.325 inches)	
Dimensions (L x W x H):	430×230×300 (mm)	
Dry weight (without guide bar and chain, empty tanks):	5,7 kg	
Sound pressure level in operating position	101,9 dB(A)	102,7 dB(A)
Declared value uncertainty (2006/42EC)	3 dB(A)	
Sound power level (EN ISO 22868) LWA:	109,7 dB(A)	110,5 dB(A)
Declared value uncertainty (2006/42EC) KWA:	3 dB(A)	
Declared sound power level LWAd	113 dB(A)	114 dB(A)
Vibration value (EN ISO 22867):		
Front handle:	6.13 m/s ²	6.34 m/s ²
Rear handle:	6.27 m/s ²	6.25 m/s ²

Original instructions

14. Specifications

Power unit:	CSP500	CSP550
Uncertainty of the declared value	1.5 m/s ²	
Cutting head:		
Guide bar		
Type:	Sprocket nose	
Size:	16 inches/18 inches/20 inches	
Cutting length:	370 mm/420 mm/470 mm	
Saw chain		
Type:	Oregon 21BPX	
Pitch:	8.255 mm (0.325 inches)	
Gauge:	1.47 mm (0.058 inches)	

Guide bar/chain combinations: For all models:

- 1) Oregon 168PXBK095/ Oregon 21BPX066X
- 2) Oregon 188PXBK095/ Oregon 21BPX072X
- 3) Oregon 208PXBK095/ Oregon 21BPX078X

Specifications are subject to change without notice.

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1) MANUFACTURER – HERSTELLER – FABRICANT – FABRICANTE – COSTRUTTORE – CONSTRUCTEUR – PRODUCENT – FABRICANTE – VALMISTAJA – TILLVERKARE – FABRIKANT – Κατασκευαστής – PRODUCENT:

Blue Bird Industries Fabbrica Motori s.r.l.
Via Due Camini 19, 36010 Zanè (VI) Italia

2) 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 MASKINERIEΤ – ΠΕΡΙΓΡΑΦΗ ΤΩΝ ΜΗΧΑΝΩΝ – OPIS MASZYN:
MOTOSEGA – CHAINSAW

a) MAKE – FABRIKAT – MARQUE – MARCA – MARCA – MERK – MÆRKE – MARCA – MERKKI – FABRIKAT – FABRIKANT – MAPKA – MARKA:
BLUE BIRD

b) TYPE / TYP / TYPE / TIPO / TIPO / TYPE / TYPE / TIPO / MALLI / TYPBE / TYPE / TYÖOAJ / TYP:
CSP 500
CSP 550

2000/14/EC (2005/88/EC) – Livelli di potenza sonora come da allegato VI – Sound Power Levels performed per annex VI	
TIPO	Livelli di Potenza Sonora Misurata / Livelli di Potenza Sonora Garantita LWA Sound Power Levels Measured / Sound Power Level Guaranteed LWA (dB)
CSP 500	103/113
CSP 550	103/114

c) Il prodotto è conforme alle direttive - The product complies with the directives - Das Produkt entspricht den Richtlinien - Le produit est conforme aux directives - El producto cumple con las directivas :

- 2006/42/EC – 2014/30/EU – 2000/14/EC (2005/88/EC) – 2011/65/EU

d) Il controllo CE del campione di costruzione secondo la direttiva 2006/42/CE, Art 12.3(b) è stato eseguito presso:
The EC type examination test was carried out pursuant to Directive 2006/42/EC, Art 12.3(b) at:
Die EG-Baumusterprüfung nach Richtlinie 2006/42/EG, Art. 12.3(b) wurde durchgeführt bei:
L'examen CE de type conformément à la directive 2006/42/CE Art. 12.3(b) a été effectué par l'office de contrôle:
La prueba de examen CE de tipo se llevó a cabo de conformidad con la Directiva 2006/42 / CE, Art.12.3 (b) en:
• Intertek Deutschland GmbH Stangenstraße 1, 70771 Leinfelden-Echterdingen - Certificate No. 16SHW1610-01

e) REFERENCE TO STANDARDS/HARMONIZED STANDARDS - VERWEIS AUF NORMEN/HARMONISIERTE NORMEN - REFERENCE AUX NORMES/NORMES HARMONISEES - REFERENCIA A ESTANDARES/ESTANDARES ARMONIZADOS - RIFERIMENTO ALLE NORME/NORME ARMONIZZATE - REFERENTIE NAAR STANDAARDEN/GEHARMONISEERDE STANDAARDEN - REFERENCE TIL STANDARDER/HARMONISEREDE STANDARDER - REFERENCIA AS NORMAS/NORMAS HARMONIZADAS - VITTAUS STANDARDEIHIN/YHTEISIIN STANDARDEIHIN - REFERERANDE TILL STANDARDER/HARMONISERADE STANDARDER - HENVISNING TIL STANDARD/FELLES STANDARD - ΑΝΑΡΩΠΑ ΕΕ ΕΕΟΜΕΝΑ/ΕΝΑΡΜΟΝΙΕΜΕΝΑ ΕΕΟΜΕΝΑ - ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH:

EN ISO 11681-1:2011

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ZANE' (VI) – ITALIA 12-10-2016
The chairman – Der vorsitzender – Le président – El presidente – Il presidente – De voorzitter – Daglig leder – O presidente – Toimitusjohtaja – Verkställande direktör – Administrerende direktør – Ο ΠΡΟΕΔΡΟΣ - Prezes

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