



**BLUEBIRD  
INDUSTRIES**

*Translation of the Original Instructions  
Original instructions*



## **BRUSH SHREDDERS**

### ***FM750***

READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE  
OPERATING THE MACHINE FOR YOUR SAFETY.

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## CONGRATULATIONS AND THANK YOU FOR PURCHASING OUR NEW MODEL OF BRUSH SHREDDERS

PLEASE READ THE INSTRUCTIONS FOR USE CAREFULLY. IF YOU FOLLOW THEM CORRECTLY, YOU WILL ENJOY THE RELIABILITY OF OUR PRODUCT FOR YEARS TO COME.

### BASIC WARNINGS

The user is required to read and fully comply with the instructions for use to ensure that neither their own health nor that of others, nor any property, is harmed during operation of the machine.

The safety instructions contained in this manual do not describe all situations or conditions that may occur during practical use. Safety factors such as common sense, diligence, and thoroughness are not included; however, it is assumed that all persons authorized to use or maintain the machine are competent.

The machine may only be operated by persons in good physical and mental condition. For professional use of the machine, the respective owner is required to provide occupational safety training and operating instructions for operators and to keep a record of these training sessions and briefings. Furthermore, the owner is required to carry out so-called work categorization according to national legislation on the subject.

If any instructions in the manual are unclear, you are invited to contact us.

The manual supplied with the machine is an integral part of it. It must be available at all times and placed in an easily accessible location without risk of damage. If the machine is sold to a third party, the Instructions for Use must be handed over to the new owner. If the above conditions are not met, the manufacturer accepts no responsibility for any risks, accidents or injuries resulting from operation of the machine.

The manufacturer accepts no responsibility for damage caused by unauthorized or improper use of the machine or by modifications not authorized by the manufacturer.

To avoid injury to operators and others near the machine as well as damage to property, it is absolutely essential to follow all safety rules marked in these Instructions for Use with the following safety symbol:



**When you see this symbol in the manual, carefully read the following instructions!**

## GUIDELINES AND SAFETY INFORMATION

Carefully read, understand and follow all safety instructions contained in this manual.



This is the safety alert symbol. When you see this symbol, look for one of the following warning statements.



The machine operator must be of legal age. 'You are required to familiarize yourself with the operating instructions for this machine and must be informed about general occupational safety principles.'



Before performing any activity near the machine, turn off the engine and wait for the cutting blade to stop moving. Before leaving the machine unattended, turn off the engine!



Never let the engine run at maximum or minimum speed for a long period of time with the cutting blade and drive wheel clutches turned off!! The transmission components of the machine (V-belt, belt pulley, clutch pulley, etc.) can be damaged.



'Before each use of the machine, check its parts (especially operating mechanism and housing) for any damage or looseness.' Defects must be eliminated without delay. Repairs must be carried out only with original spare parts.



'Before using the machine, clear away solid objects such as stones, wires or loose construction debris from what you intend to cut; these could be thrown upwards or could damage your machine.' If these cannot be removed, do not perform any operation.



The machine is equipped with a rotating working tool. 'Ensure that other people remain at a safe distance from the machine while it is operating since solid objects may be thrown during cutting.'



Regarding exceeding the recommended noise and vibration thresholds, it is recommended to observe the following instructions when working with the machine:

'A) Protect your hearing by using appropriate protective devices such as earmuffs and earplugs.'

'B) Work with this machine must be interrupted after max. 20 minutes for at least a 10-minute break.' During these breaks, the machine operator must not be exposed to the impact of another source of noise or vibration.



'Machine operators must wear personal protective equipment such as close-fitting clothing', sturdy shoes', work gloves' and protective goggles.' Maintain a safe distance as determined by the handlebar



Do not start the engine in enclosed spaces! Pay extra attention when handling the machine , as the exhaust muffler remains hot after switching off ; make sure there are no leaks or spills on engine parts during refueling . If they occur, dry the stained parts or wait for the gasoline to evaporate.



When operating , all other people (especially children ) and animals must stay outside of its working area . The operator may continue working only after ensuring that a safe distance has been observed .



It is forbidden to remove any protective device or cover from this machine



The machine's accessibility on a slope is 10°. The maximum engine tilt while running is 20° for long-term operation and 30° for short periods (up to 1 minute).

NOTE: Preferably, the machine should not be used on wet grass. The ground you move on must always be secure . Carry out operations by walking, not running. Pay special attention when changing direction on slopes . Cutting on steep slopes should be avoided . If you fall, do not hold onto the machine, but release your grip.



All repairs , adjustments , lubrication , and cleaning must be performed with engine off and spark plug wire disconnected .

## PROVIDED CONTENTS

The machine comes partially assembled and is shipped carefully packed . After removing all parts from packaging , you should have: (Figure 1 or Figure 2)

### Package (I)

1. Main frame
2. Handlebar
3. Manual and tool

### Assembly steps (I)

1. Push the handlebar down A
2. Raise the handlebar and adjust the height



Figure 1

### Package (II)

1. Machine
2. Manual and tool

### Assembly steps (II)

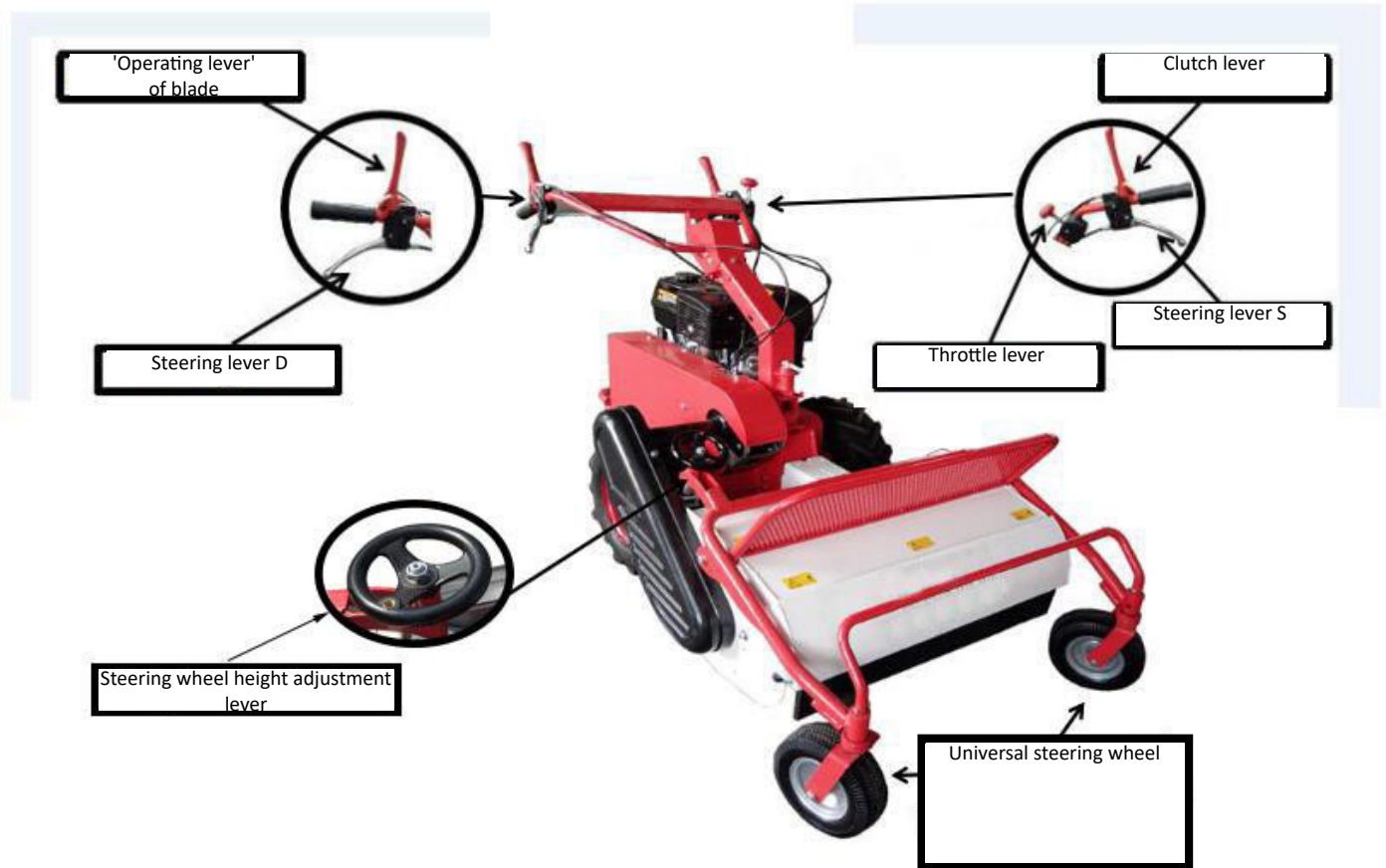
1. Install the handlebar cover onto the welded lower shaft.
2. Take the spring washer and install it in the correct position.
3. Select the correct shaft position and adjust the grip height.

(According to assembly step (I))



Figure 2

## KNOW YOUR MACHINE



Press this lever to move the blades, release it to stop blade movement.

### **Throttle lever**

Operate this lever to increase or decrease the throttle.

### **Cutting height adjustment wheel**

Turn this lever clockwise to lower the cutting height and counterclockwise to raise it.

### **Steering lever D/S**

When you want to turn right or left, firmly hold the steering lever D/S.

## OPERATIONS

This machine is similar to any other power tool; although very easy to use, it will require some familiarity with the controls and balance to master it completely. Before performing any operation, it is a good idea to become familiar with its controls and first consult the entire operating manual.



**ATTENZIONE**

The machine may be delivered without engine plugs (depending on different national regulations)! Engine without oil. Carefully read the engine operating instructions! You can prevent possible engine damage.

1. Check the engine oil and/or fill the engine with the prescribed type and amount of oil. Fill the tank with the prescribed quantity and type of gasoline.

2. Move the throttle lever to the forward position. Start the engine by pulling the manual starter (read the engine manual step by step)
3. Let a new or cold engine run for about 30 seconds on choke (throttle lever in choke position); then move the throttle lever to MAX and let it run in this position for about 30 seconds.



#### ATTENZIONE

Do not leave the machine unattended while doing this.

When starting the engine, the two levers on the handlebar must be in the off position.

1. Start the engine; when doing so, follow the instructions provided in the user manual for operating the engine.

'2. Set maximum engine speed using the throttle lever on the right handrail.' (if the engine is cold, let it warm up at maximum for about 1 minute).

'3. Grasp the left handle of the handlebar, then slowly press with your right hand on the mower shift lever on the right handle of the handlebar'

Slowly press the lever up to two-thirds of its travel, so that the cutting disc can start to rotate and the engine does not stall

The start of mowing is accompanied by partial slipping of the V-belt and related phenomena such as whistling, buzzing, etc., which usually disappear after the belt has started to move properly.

'4. After mowing has started to rotate, fully press down on the handrail lever and hold it steady'

Note: in a new or cold engine, engine stalling may occur at the first start of mowing. This phenomenon will disappear once the engine has warmed up.

### Machine movement

'The gear shift must be activated by a lever on the left handrail.' 'Pressing down on this lever towards the handrail will immediately cause the machine to move forward.' 'You should start walking slowly as soon as you press down on this lever and once machine movement is established.' 'The machine may start moving with a slight jolt: be prepared for this.'

### 'Before operating/moving/starting up (the) machine'

Before using the machine, the area must be cleared of solid objects such as stones, wires, loose construction debris, etc. that could be thrown upwards or could damage the machine. If it is not possible to remove them, avoid working in those areas. 'Adjust handlebar into correct position (Figure 1,2)'

'1) Adjust handlebar height: push down on circled handle shown in Figure 1 and adjust handlebar height for best position.'

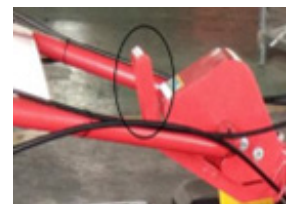


Figure 1

2) Adjust direction of handlebar: by pushing down on circled bar, handlebar shaft will be released from locked position; then you can turn handlebars left-center-right. This allows operator to control mower not only from behind but also from left or right side for difficult jobs.



Figure 2

3) Adjust blade height before mowing (Figure 3)

Turn knob clockwise - lower blade

Turn counterclockwise - higher blade



(Figure 3)

### Stopping your machine

**Before performing any activity near the machine, turn off the engine and wait for the mower to stop! Always turn off the engine before leaving the machine.**

**Never let your engine run at maximum or minimum speed with either clutch for cutter disc drive gear or drive wheels disengaged for an extended period! The transmission components of the machine (V-belt, belt pulley, clutch pulley, etc.) may be damaged!**

If you wish to stop machine movement, release left handlebar grip lever; machine movement will stop but mowing mechanism will still rotate. The cutter disc stops immediately after releasing right-hand grip lever on handlebars. The cutter disc is stopped by safety brake.

The engine must be turned off by pushing the lever to the stop position

In case of a critical situation, immediately release the handlebar. The lever will return to zero position; both machine and cutter disc will stop (while engine is still running at regulated speed; therefore it must be turned off by pushing lever into stop position as soon as possible!)

## MAINTENANCE

To ensure long-term satisfaction with our products, the machine must be given proper care and maintenance; this will prevent premature wear while also ensuring that all its parts function correctly.

Follow all instructions for the maintenance and adjustment intervals of the machine. It is recommended to keep a record of the number of hours the machine has worked and the conditions in which the machine was operating (for service purposes). Similarly, as with ongoing maintenance, post-season maintenance should be entrusted to one of our authorized service workshops if you are not confident in your own technical competence.

Regarding the weight of the machine, maintenance and adjustment must be carried out by a team of two people.

### Replacement and sharpening of operating blades

If the cutting edges of the operating blades show wear or damage, this will cause machine vibrations and the blades must be repaired or replaced.

The engine must be turned off and the cable and connector to the spark plug must be disconnected!

The machine must be placed on a solid support plate and secured so that the blade is easily accessible and no unexpected spontaneous movement of the machine occurs.

Be very careful when disassembling the blades as the edges are sharp.

Protect your hands with work gloves.

1) Remove the front cover. Loosen the bolts mounted on both sides as shown (Figure 4) so the front cover can be easily removed.



(Figure 4)

2) When replacing the blades, simply loosen the screw and install a new one.



(Figure 5)

### **Adjust the loose V-belt**

After prolonged use, when the V-belt becomes loose, there are two ways to tighten it by adjusting the nuts underneath.

A. Adjust the V-belt for the blade tube

1) Properly turn the circled nut (**figure 6**).



(figure 6)

2) Remove the cover and properly turn both nuts (**Figure 7**).

3) You can choose A or B or both. If it is still not suitable after adjustment, then replace the belt.

B. Same steps for adjusting the reducer's V-belt.



(Figure 7)

### **Tighten the wheel bushing bolts**

After a period of operation, the bolts on the drive wheel bushing and on the circled drive wheel (**Figure 8**) may loosen due to vibration; therefore they should be checked promptly and tightened with appropriate tools.



(Figure 8)

### **Washing and cleaning the machine**

During cleaning and washing of the machine, comply with current regulations and laws regarding protection of running water and other water resources against pollution or contamination by chemicals.

Never wash the engine with steam water! The electrical equipment may fail when starting up the engine.

All dirt, debris and plant residues must be removed from the machine at season's end; check integrity of operating blades, sharpen edges (or replace blades if necessary), store blades with appropriate oil; drive wheels should be removed from axle once per season for cleaning and hubs inside should be filled with new plastic lubricant.

The engine must be turned off and the clamp connecting to the spark plug must be disconnected!

## MACHINE STORAGE

Before storing the machine, clean it of all types of dirt, debris, and plant residues. Repair any damage to the painted parts of the machine.

When taking the machine out of service for a longer period, it is advisable to:

- a) store blades during mowing.
  - b) drain gasoline from engine fuel tank and carburetor (for further instructions see engine operation guidelines).
- Prevent unauthorized persons from accessing the machine. 'Protect the machine from weather exposure but do not use an airtight cover as this may increase corrosion underneath.'

## TROUBLESHOOTING

| 'THE ENGINE WILL NOT START'                                       | 'Possible cause'                                                                                                    | Correction                                                                        |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| '1. Check control positions'                                      | 'Fuel valve off'                                                                                                    | Move the lever to ON.                                                             |
|                                                                   | Starter ON.                                                                                                         | 'Move lever to OFF unless engine is warm.'                                        |
|                                                                   | Engine ignition OFF.                                                                                                | Turn engine switch ON.                                                            |
| 2. Check the fuel.                                                | Out of fuel.                                                                                                        | Refueling                                                                         |
|                                                                   | Poor quality fuel; engine stored without treatment or draining of gasoline, or refueled with poor quality gasoline. | Empty the fuel tank and the carburetor. Refuel with fresh gasoline.               |
| 3. Remove and inspect spark plugs.                                | Defective, dirty or improperly installed spark plugs.                                                               | Adjust spark plug electrode gap or replace them.                                  |
|                                                                   | Spark plugs wet with fuel (flooded engine).                                                                         | Dry and reinstall spark plugs. Start engine with throttle lever in FAST position. |
| 4. Take the engine to an authorized dealer or consult the manual. | Clogged fuel filter, carburetor malfunction, ignition malfunction, stuck valve etc.                                 | Replace or repair defective components, if necessary.                             |

| THE ENGINE LACKS POWER                                   | 'Possible cause'                                                                                                    | Correction                                                                        |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1. Check the air filter                                  | Filter element(s) clogged.                                                                                          | Clean or replace filter element(s).                                               |
| 2. Check the fuel.                                       | Out of fuel.                                                                                                        | Refueling                                                                         |
|                                                          | Poor quality fuel; engine stored without treatment or draining of gasoline, or refueled with poor quality gasoline. | Empty the fuel tank and the carburetor. Refuel with fresh gasoline.               |
| 3. Take engine to an authorized dealer or consult manual | Clogged fuel filter, carburetor malfunction, ignition malfunction, stuck valve etc.                                 | Replace or repair defective components, if necessary.                             |
| <b>ENGINE IS RUNNING BUT THE MACHINE DOES NOT WORK</b>   | 1. Gear not properly engaged.<br>2. Clutch cable not tight enough                                                   | 1. Make sure the gearbox is not between two gears.<br>2. Adjust the clutch cable. |

1) MANUFACTURER – HERSTELLER – FABRICANT – FABRICANTE – ~~STRUTTORE~~ – 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 MASKINERIET – ΠΕΡΙΓΡΑΦΗ ΤΩΝ ΜΗΧΑΝΩΝ – OPIS MASZYN:  
**TRINCIASARMENTI – FLAIL MOWER**

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

b) TYPE / TY P / TYPE / TIPO / TIPO / TYPE / TYPE / TIPO / MALLI / TYPBE / TYPE / είδος / TYP:  
**FM 750**

| 2000/14/EC (2005/88/EC) – Livelli di potenza sonora come da allegato VI – Sound Power Levels performed per annex VI |                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| TIPO<br>TYPE                                                                                                        | Livelli di Potenza Sonora Misurata / Livelli di Potenza Sonora Garantita LWA<br>Sound Power Levels Measured / Sound Power Level Guaranteed LWA<br>(dB) |
| FM750                                                                                                               | 87/102                                                                                                                                                 |

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) 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 TANDAARDEN/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 - ΑΝΑΦΟΡΑ ΣΤΑ ΠΡΟΤΥΠΑ / ΕΝΑΡΜΟΝΙΣΜΕΝΑ ΠΡΟΤΥΠΑ- ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH:

EN 12733:2001+A1:2009

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VANDA VITELLA

(GB) Technical documentation maintained by  
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(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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VANDA VITELLA



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