



**BLUEBIRD
INDUSTRIES**

Earth auger

TR-WAVE



Product user manual

-translation of the original instructions-

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1 GENERAL INFORMATION

The customer must read the information contained in this manual very carefully, as proper setup and use of the equipment form the basis of the manufacturer–customer relationship.

This manual is intended both for the operator and for technicians authorized to perform maintenance.

Operators must not perform operations reserved for qualified technicians. The manufacturer is not liable for damages resulting from failure to observe this prohibition.

The content of this manual is the property of BLUE BIRD INDUSTRIES, which prohibits copying even of individual parts.

1.1 PURPOSE AND CONTENT

This manual is intended to provide the customer with all the necessary information so that, in addition to using the equipment properly, they are able to manage it as independently and safely as possible. It includes information regarding technical aspects, operation, storage, maintenance, and safety.



Before performing any operation on the equipment, operators and qualified technicians must carefully read the instructions

If there are any doubts about the correct interpretation of the instructions, contact the manufacturer for the necessary clarifications. The manufacturer disclaims all liability for damages to third parties resulting from failure to comply with all instructions and warnings contained in this manual.

The machines and accessories are subject to continuous development. We reserve the right to change at any time, without notice, the data, weights, as well as the construction and equipment. No rights may be claimed over the data and illustrations, even partially, contained in this manual.

1.2 STORAGE

The instruction manual must be kept close to the storage location of the drill, inside a suitable container and, above all, protected from liquids and anything else that could compromise its legibility.

1.3 SYMBOLS USED

SYMBOL	MEANING	COMMENT
	DANGER	Indicates a hazard with risk, including fatal risk, for the user.
	WARNING	Indicates a warning or a note about key functions or useful information. Pay maximum attention to text blocks indicated by this symbol.
	CONSULTATION	The instruction manual must be consulted before carrying out a specific operation.

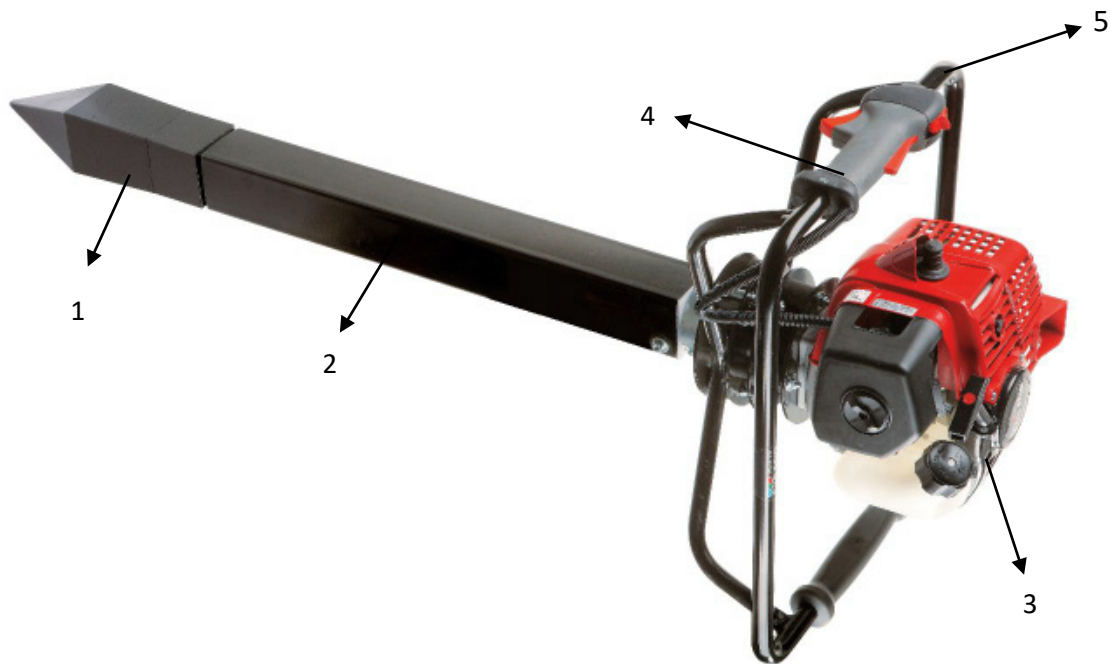
2 DESCRIPTION OF THE DRILL

2.1 OPERATING PRINCIPLE AND MAIN COMPONENTS (fig. 1)

The TR-wave drill is an innovative and practical portable system for drilling agricultural and other types of soil, where holes are needed for installing concrete or other types of posts. Its unique feature is its ability, through tip vibrations, to create holes of the same shape as the tip while simultaneously compacting the surrounding soil, thus remaining clean and well reinforced.

Recommended especially for gravelly and stony soils, less so for clay soils where vibrations are absorbed by the rubbery ground.

Since there are no external moving parts, there is no counter-torsion, making the machine easy to use without effort and, above all, completely safe for the operator.



The configuration and unique usage of the equipment are patented.

The main components are:

1. Vibrating drill tip
2. Tip casing
3. A two-stroke internal combustion engine unit
4. An ergonomic multifunctional handle, complete with operating controls (start/stop and engine acceleration/emergency stop);
5. Handlebar

2.2 ENVIRONMENTAL CONDITIONS

The TR-wave drill is built and designed to work outdoors and in harsh weather conditions and/or in the presence of high humidity. Low temperatures require at least 5 minutes of warming up at minimum speed.

Permitted temperature: -20° / +40°

Maximum relative humidity: 98%

2.3 LIGHTING

Use requires sufficient visibility so that the operator can work with full visual control of the work area, avoiding intercepting elements that could be damaged or cause danger to themselves.

Therefore, night work is prohibited!

2.4 SOUND EMISSIONS

DECLARED SEPARATE SOUND EMISSION VALUES in accordance with ISO 4871			
	Maxi- mum	Idle	Medium
A-weighted sound power level, LWA (ref. 1 pW)	101 dB	85 dB	98.5 dB
Uncertainty KWA	4 dB		
Measured A-weighted sound emission pressure level, LpA (ref. 20 μPa), at operator position	80 dB	97.5 dB	94.5 dB
Uncertainty KpA	4 dB		
Measured C-weighted peak sound emission pressure level, LpC,peak (ref. 20 μPa), at operator position	104 dB	115 dB	//
Uncertainty KpC,peak	4 dB		
Values determined in accordance with the test procedure indicated in ISO 10884, using the basic standards UNI EN ISO 3744 (for sound power level) and UNI EN ISO 11201 (for sound pressure level). The sum of a measured value and its associated uncertainty represents the upper limit of the range of values likely to be found.			

The indicated noise values are emission levels and do not necessarily represent safe working levels. Although there is a relationship between emission levels and exposure levels, this cannot be reliably used to determine whether further precautions are necessary.

The factors that determine the actual exposure level of workers include the duration of exposure, the characteristics of the workplace (acoustic absorption coefficient of the ground and other surfaces, other sources of noise, etc.). Furthermore, the permitted exposure levels may vary from country to country. However, this information will allow the user to make a better assessment of danger and risk.

	Operators must in any case wear hearing protection devices
	Attention! With headphones, the perception of warning signals is reduced and caution is required

2.5 TECHNICAL DATA

Below are the data and technical specifications to be referred to, also for any possible contact with the manufacturer's technical support. The internal combustion engine is Blue Bird brand, type N61E ST with self-rewinding recoil starter, diaphragm carburetor, electronic ignition, and centrifugal clutch with shoes. The engine data refer to the engine unit at thermal operating conditions. The internal combustion engine speeds at idle (idling) and maximum (racing) are factory set. The maximum speed must not be modified by the user.

PARAMETER	MEASU-RE	Um
Total mass of the drill (excluding fuel)	18	kg
Fuel tank volume	0.9	liters
Internal combustion engine displacement	56.7	cc
Internal combustion engine speed at set idle (idling)	3000	rpm
Set maximum speed of the internal combustion engine (racing)	9000	rpm
Maximum power of the internal combustion engine (according to ISO 8893)	2.8	kW
Internal combustion engine speed at maximum power	7500	rpm
Maximum torque of the internal combustion engine	3.04	Nm
Internal combustion engine speed at maximum torque	5500	rpm
Specific consumption at maximum power (according to ISO 8893)	1060	rpm

3 SAFETY

3.1 GENERAL WARNINGS

The operator must read very carefully and comply with all the instructions in this manual. In particular, the following safety precautions are essential.

Failure to observe the warnings may have serious consequences.

- The equipment must be used by adults in normal physical and mental condition, trained in its use and informed about the associated risks after reading the manual. Fatigue, illness, and the influence of alcohol or other substances compromise safety.
- Do not remove the plates affixed by the manufacturer on the equipment and keep them clean. Adhesive plates must be replaced when they come off.
- Do not use the equipment if any defects or irregularities are detected.
- Smoking is prohibited during use and maintenance.
- Never pull the drill excessively towards your feet. Keep at least 25 cm distance and use the protective barrier provided by the handle
- Regularly subject the drill to the checks described in the 'Maintenance' chapter. The engine must be switched off before any maintenance operation and when the equipment is not in use.

	• Do not make adjustments that are not indicated in this manual • It is forbidden to modify the equipment in any way
	• The user is responsible for damages and accidents involving people and property • It is recommended to lend the equipment only to reliable and experienced people and after having given them the instruction manuals

3.2 INTENDED USE AND CONTRAINDICATIONS

The TR-wave drill is designed and built to drill the ground by professional users and therefore must not be:

- used in enclosed spaces;
- used on bare ice.

3.3 RESIDUAL RISKS AND SAFE WORK PROCEDURES

The TR-wave drill has been designed and built with the aim of eliminating the risks associated with its use. However, given the environment and type of use, there remain residual risks related both to the equipment and to environmental conditions.

The identified residual risks are:

1. Injuries to the lower limbs. They may occur if the user pulls the drill excessively towards themselves.
2. Burns from contact with the engine or the muffler
3. Inhalation of toxic, odorless, and invisible exhaust gases
4. Fuel fire
5. Problems caused by vibrations (circulatory disorders, etc.)
6. Problems caused by noise

To minimize the consequences of the aforementioned hazards, the speed of the drill must be adjusted to the specific conditions of the location and the snow, without overloading the engine and strictly following the instructions below:

1. In any case, heavy shoes and suitable clothing must be worn, the drill must be held with both hands, and feet must always be firmly planted and at an appropriate distance (at least 25 cm apart). If the ground is steep, wear a pair of crampons and a head protection device, and prefer the direction of maximum slope, avoiding movement along paths with lateral slope. In any case, the slope must never compromise stability in relation to the overall ground conditions and individual protections.
2. Do not use the equipment in confined spaces that may hinder its maneuverability. Never bring the drill closer than 25 cm to your feet. Wear safety shoes or very heavy shoes.
3. If the work area is not perfectly known, gather information about it and proceed with caution. **Watch out for possible electrical cables!**
4. Wait at least 10 minutes before touching the engine and the muffler after continuous use.

5. Do not use the equipment in enclosed or poorly ventilated areas. Do not inhale the fumes produced. Carry out the indicated maintenance on the engine. If working in cramped or deep spaces, always ensure sufficient air exchange (breaks, etc.).
6. Do not smoke during refueling, use, or maintenance. Be careful not to produce sparks during refueling and maintenance. Start the engine at least 5 meters away from the refueling area. Keep easily flammable materials away from exhaust gases.
7. Wear padded gloves, first checking that they allow a secure (correct size and rough surface) and complete grip. The discomfort decreases with higher temperature and work breaks
8. Wear hearing protection devices. Accelerate the engine only for working, otherwise turn it off. Do not work with a defective or removed muffler (also due to fire hazard).

3.4 PLATES

The controls (on/off, etc.), the fuel cap, and the level check are indicated on the engine unit and the handle. The following safety warning symbols are affixed to the drill in a visible position.

They must not be removed or covered. If they deteriorate, they must be replaced.

	• The user is responsible for damages and accidents involving people and property • It is recommended to lend the equipment only to reliable and experienced people and after having given them the instruction manuals
	The distance between the drill and other people must be at least 15 meters
	Read the instruction manual

4 TRANSPORT AND PREPARATION FOR USE

4.1 STORAGE

Store the equipment in an enclosed place that prevents damage or danger to third parties in relation to the place itself and the storage period. In particular, it must be:

- thoroughly cleaned;
- protected from shocks and stresses;
- protected from moisture, high temperature fluctuations, and sources of ignition;
- protected from corrosion and dust;
- secured to prevent tipping and leakage of liquids.

At the end of the season, you must also:

- empty the fuel tank and clean it;
- drain the carburetor using the primer bulb (fig. 4, no. 1).

4.2 TRANSPORT AND HANDLING

The equipment must be transported in such a way as to avoid any damage to the parts. In particular:

- turn off the engine;
- protect it from all possible shocks, falls, and stresses related to the type of transport;
- secure it against tipping over;

	Damage caused during transport and handling is not covered by warranty
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4.3 REFUELING

	FIRE HAZARD Mix the gasoline with the oil before pouring it into the tank. Carry out this operation in an open, well-ventilated area, away from non-electric light sources, without smoking, away from sparks or flames, and with the engine off.
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Blue Bird engines are designed to run on both premium gasoline and unleaded (green) gasoline. When using unleaded gasoline (green gasoline), it is advisable to use a synthetic oil specific for highly stressed two-stroke engines, to be mixed at the percentage indicated on the packaging (generally 2%). If mineral or semi-synthetic oil is used, the oil percentage must be 5%.

The use of synthetic oil specific for two-stroke engines reduces the formation of ash and deposits on the spark plug, piston, cylinder, and muffler, as well as the emission of exhaust fumes.

Furthermore, lubrication will be optimized, resulting in a longer engine life.

It is also important to use only branded, qualified gasoline and oil, and to use the mixture, once prepared, within three weeks.

You can now fill the machine's tank: unscrew the tank cap slowly and pour in the mixture, being careful not to spill it; if you do, carefully dry the engine. Avoid getting your clothes wet with the mixture.

Start the engine at least five meters away from the place where you refueled, in order to avoid possible fire hazards.

Do not fill the tank when the machine is hot.

	FIRE HAZARD Fuel leaks or poor engine cleanliness can cause uncontrollable fires (given the position of the engine), resulting in serious burns
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4.4 ADJUSTMENTS AND PRELIMINARY CHECKS

Before starting up, it is necessary to carry out a series of checks and inspections in order to prevent errors or accidents. In particular, it is necessary to check:

- that the movement of the buttons is correct, smooth, and unobstructed;
- that the spark plug connector is secure, to avoid sparks that could cause fires;
- the suspension supports of the engine assembly and the fastening to the handle
- the regularity and integrity of the drilling tip
- that the protective devices are not damaged.

If even one of the above points is not met, it is not possible to work and the non-compliance must be corrected.

4.5 OPERATORS

This drill has been designed for use by a single professional operator, who must have the requirements indicated below and be familiar with this manual and all safety information:

- General and technical knowledge sufficient to understand the contents of the manual, correctly interpret photographs and diagrams, and perform maintenance;
- Knowledge of the main hygiene, safety, and technological regulations;
- Knowing how to act in case of emergency, where to find personal protective equipment, and how to use it correctly;

In addition to the points indicated above, the user must have received all the necessary information for safe use from a supervisor or the seller themselves.

5 OPERATION

	Consult the instruction manual before use
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5.1 USE OF THE KNOB

For correct use of the knob (Fig. 2), you must first know its functions; in this way, you can start the machine and control its working speed.

SEMI-ACCELERATION FOR STARTING

- grip the knob by pressing the red safety trigger (1) located on the top of the knob with the palm of your hand.
- press the throttle lever (2) all the way down.
- set the red button (3) to the START position, then release the lever.
- now you are ready to start the machine. The safety trigger is essential to prevent dangerous accelerations due to careless or accidental maneuvers. In fact, if this is not gripped and pressed, it does not allow the use of the throttle lever.

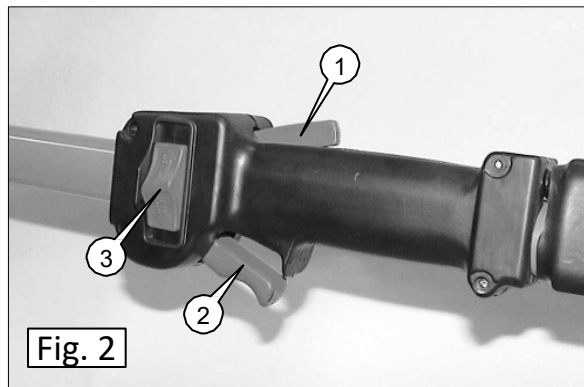
Note: Once the engine is started, at the first acceleration, the button automatically returns to the central position.

ACCELERATION WITH THE MACHINE ON

- grip the knob by pressing the safety trigger.
- press the throttle lever according to the speed you want to use.

STOP (to turn off the engine)

- release the lever and the trigger. set the button to the STOP position.

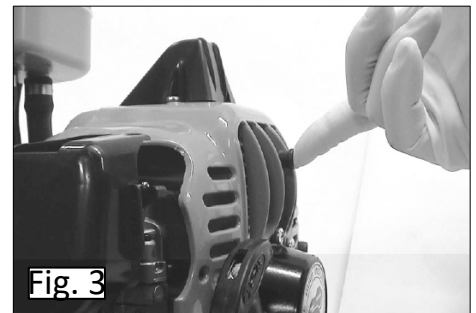


5.2 STARTING THE ENGINE

After carrying out all the checks indicated in chapters 3 and 4, place the drill on a horizontal surface.

To reduce the effort required to pull the recoil starter cord, press the decompressor button (fig. 3).

Set the controls to the starting position (par. 5.1).

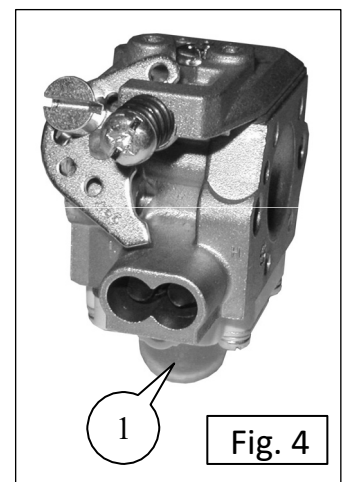


PREPARATION FOR STARTING WT CARBURETORS

- with a cold engine, press the primer bulb (part. 1, Fig. 4), 5-6 times until fuel mixture comes out of the designated discharge tube (so as to completely fill all the carburetor chambers).
 - Set the choke lever to the CLOSE position, pull the starter cord 1 to 2 times at most until the first sputters are heard. Even if you do not hear the sputters, move the lever on the cover to the OPEN position.
 - Pull the starter cord again until the engine starts.
- If the engine does not start after the fourth pull, repeat the operations from the first point.

If, despite repeated starting attempts, the engine does not start, it means the combustion chamber is flooded. In this case, unscrew and dry the spark plug and pull the starter cord several times without the spark plug to clean and ventilate the combustion chamber.

IMPORTANT: with a warm engine, it is not necessary to perform the above operations, but with the button in the central position, simply pull the starter cord until it starts.



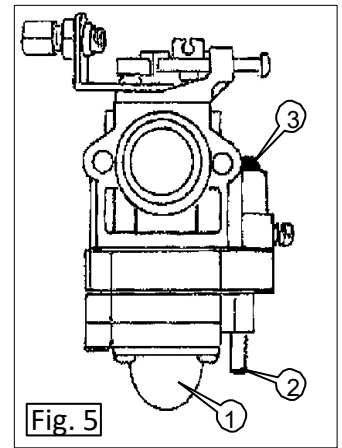
PREPARATION FOR STARTING WYK CARBURETORS

Press the primer bulb no. 1 (fig. 5), 5 or 6 times until mixture comes out of the discharge tube no. 2 (fig. 5).

Press the start button no. 3 (fig. 5) once or twice to introduce the correct amount of mixture.

Hold the engine assembly firmly on the ground with your left hand, and pull the starter cord forcefully up to 4 times, until the machine starts.

Never pull it to the end of its travel, to avoid damaging the engagement mechanism.



If, despite several attempts, the engine does not start, it is likely flooded.

Try removing the spark plug and pulling the starter cord several times to clean and ventilate the combustion chamber.

Clean and dry the spark plug before reinstalling it.

Starting with a warm engine

Set button no. 3 (fig. 2) to the central (or working) position.

Pull the starter cord forcefully up to 4 times, until the machine starts.

Never pull it to the end of its travel, to avoid damaging the engagement mechanism.

Starting difficulties

If you have difficulty pulling the starter cord, the cause could be:

- possible defective bearings (seized);
- seized piston or cylinder;
- broken starter spring or jammed cord.

If ignition or firing fails, check:

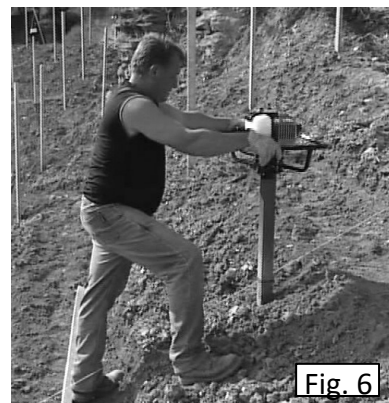
- the electrical system (coil not supplying current, dirty spark plug, spark plug electrode not at correct distance or worn);
- The ground button cable (could be broken or disconnected);
- The spark plug cap (could be broken or disconnected).

5.3 USE

In addition to the recommendations in chapter 3, also observe the following:

- **The first ten hours of operation of a new device constitute the break-in period. During this period, throttle should be limited.**
- Always maintain maximum concentration and a correct posture (fig. 6). Work carefully in unfamiliar places.
- Take breaks from work at appropriate intervals to rest and avoid engine overheating.
- If you notice a loss of power or a sudden stop, the cause could be:

- (a) Lack of fuel (fuel exhausted, clogged mixture filter, fuel line blocked or disconnected). The mixture does not reach the carburetor (not visible in the tube);
- (b) Presence of water in the fuel: the entire system must be cleaned;
- (c) Carburetor problems (incorrect adjustment, internal failure, main jet blocked);
- (d) Blocked tank vent: clean it;
- (e) Incorrect ignition timing;
- (f) Deposits in the cylinder exhaust duct or in the muffler.



- If the drill is used continuously and for prolonged periods, circulation problems in the hands may occur due to vibrations, favored by a personal predisposition to insufficient blood flow (tingling, cold fingers), low temperatures, and excessive gripping force. If these symptoms become frequent, a medical check-up is recommended.
- If the drill has been operating at full load for a long time, let it run at idle for a few minutes before switching it off, to promote ventilation and dissipate heat.
- Before leaving the equipment, turn off the engine.

	• In case of emergency, throw the equipment to the ground • Turn off the engine • Immediately check the machine in case of noticeable changes in operation, vibrations, or unusual noises.
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6 MAINTENANCE

6.1 MAINTENANCE STATUS. GENERAL WARNINGS AND PRECAUTIONS

Carry out the maintenance described in paragraph 6.2 in the indicated manner and time. These operations, although simple, must be carried out by a competent person.

	Before carrying out any type of check or maintenance and/or repair, it is necessary to turn off the engine and let it cool down (except CM, see below)
---	---

When performing checks or maintenance and/or repair work, it is advisable to:

- Do not use flammable solvents or stay near open flames;
- Use only manufacturer-approved spare parts;
- Be careful not to spill liquids into the environment;
- Replace and securely fasten all removed or opened components;
- Remember that for any kind of information the manufacturer is always available. Therefore, their intervention is recommended, as they have the necessary knowledge, the most suitable equipment, and original spare parts.

6.2 TABLE OF ROUTINE OPERATIONS

	• Failure to comply with the requirements releases the manufacturer from any responsibility and voids the warranty • The following instructions refer to normal operating conditions. Otherwise (e.g. for prolonged use) the intervals must be shortened.
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MAINTENANCE ITEM	Before work	After work	After each refueling	20 hours	50 hours	At the end of the season	Part damaged	Fault machine
Equipment as a whole	CV	P	P/F					
Accessible screws and nuts (except adjusters)					T			T
Anti-vibration suspensions							SR	
Fuel tank filter							ST	ST
Fuel tank and cap			P	CT		P	SP	CV
Carburetor	CM					SC	ST	ST
Spark plug (1) and insulation cables (2)				CV ²	P/RE		SP	KING
Intake opening and cylinder fins					P			CV
Exhaust pipe and muffler (integrity)				CV			SR	CV
Handle and controls	F		P				SR	CV

LEGEND	
CM = Check / adjust idle speed	RE = Correct the distance between the spark plug electrodes
CT = Check the seal	SC = Drain
CV = Visual check	SP = Replace the part
F = Check the operation	SR = Have the part checked and/or replaced
P = Clean and let dry	T = Tighten the screws if necessary
ST = Have the part checked and/or replaced by a qualified technician	



If even one of the safety device efficiency checks is negative, the equipment must not be used



Original spare parts (for example, those marked with SR and ST in the table) are supplied exclusively by the manufacturer together with the assembly instructions

6.3 CLEANING

After use, it is advisable to thoroughly clean the equipment, also using compressed air and paying special attention to crevices. Finally, let it dry completely.

6.4 CARBURETOR ADJUSTMENT

WYK CARBURETORS (fig. 7)

With the engine at idle, the tip must not vibrate!

If not, adjust the idle as described below.

The adjustment must be carried out with the engine warm.

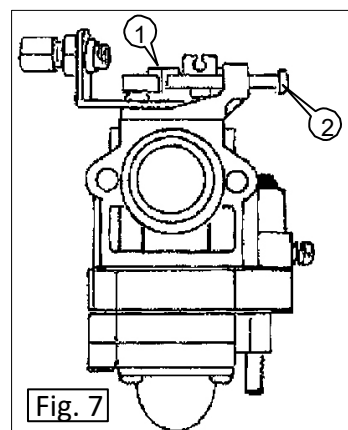
Beware of burns!

Screw in clockwise, gently and without forcing, the idle screw no. 1 (marked with the letter "L"), until it rests on the base. Lubricate the screw if there is difficulty.

From this position, unscrew it four turns.

Start the engine and, without accelerating, find the point where it is at maximum speed by screwing in or unscrewing the screw about 1/8 of a turn at a time (45 degrees). Once the maximum speed point is found, unscrew the screw by 1/8 of a turn.

Finally, adjust the throttle valve using screw no. 2, so that the engine runs at idle just below the clutch engagement.



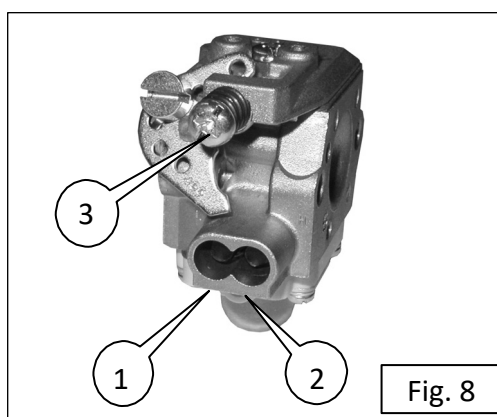
WT CARBURETOR (fig. 8)

The carburetors have safety screws for maximum and idle adjustment and must be calibrated with a special screwdriver (fig. 9).

The carburetor calibration must be carried out exclusively by an authorized service center.

During normal use, the carburetion may undergo calibration changes, especially when changing working altitude, after many hours of use, or due to changes in ambient temperature and pressure.

If the carburetor needs a new adjustment, follow these instructions:



Before starting the engine:

- Screw in clockwise the idle screws marked with the letter "L" (part. 1, Fig. 8) and the maximum screw marked with "H" (part. 2, Fig. 8), gently until they rest on the base, never forcing.
- From this position, unscrew the "L" screw by 1.5 turns and the "H" screw by 2 turns.

Idle ADJUSTMENT

- Start the engine and without accelerating, find the point where the engine is at maximum speed by screwing in or unscrewing the "L" screw about 1/8 of a turn at a time.
- Once the maximum speed point is found, unscrew the same "L" screw by 1/4 of a turn (enrich).
- Adjust the throttle valve adjustment screw (part. 3, Fig. 8) until the engine reaches about 2800 rpm. This adjustment allows idling just below the clutch engagement on the bell.

With the engine at idle, the tip must not vibrate!

Maximum ADJUSTMENT

- Still with the engine running, fully accelerate and adjust the maximum screw marked with the letter "H" (part. 2, Fig. 8) and find the point where the engine is at maximum speed by screwing in or unscrewing about 1/8 of a turn at a time.
 - Once the maximum speed point is found, unscrew the same "H" screw by 1/4 of a turn (enrich).
- Keep in mind that screwing in this screw leans the mixture, while unscrewing it enriches it.

To achieve correct adjustment, operate with the engine warm.

6.5 CLEANING, ADJUSTMENT OR REPLACEMENT OF THE SPARK PLUG. INSULATION CABLES

Clean the spark plug every 50 hours of operation, removing any deposits with sandpaper or an abrasive brush.

During this operation, always check the distance between the electrodes, which should be about 0.5 mm. If the distance is different, correct it with a screwdriver.

If the electrodes are very corroded and worn, replace the spark plug with a new one to avoid combustion or ignition problems (par. 5.2).

The insulation cable must be perfectly intact and well secured. Do not attempt to start the engine when the spark plug is disconnected or the power cable is not properly secured.

6.6 DISPOSAL AND DEMOLITION

No substances requiring disposal are produced during operation.

During demolition, it is necessary to separate the different materials so that they can be sent to specific recycling collections in compliance with current regulations.

As for metal masses, recycling requires first separating steel from other metals or alloys.

Particular attention must be paid to liquids (fuel), which must be disposed of in accordance with the regulations in force at the place of use.

7 WARRANTY CONDITIONS

a) Our company guarantees the correct and proper functioning of all agricultural and industrial machines we market for a period of 24 months from the date of sale.

b) The warranty coverage period is 6 months if the equipment is used professionally or for rental.

c) This warranty consists of the free replacement of various mechanical and electrical components that become unusable due to manufacturing or material defects.

d) The warranty is limited to the straightforward replacement of defective parts after they have been received by us. Any labor costs for disassembly, reassembly, and adjustment of the machine must therefore be paid by the customer.

e) All parts whose wear is due to normal use are excluded from the warranty. These, for example, are: Cutting discs - Mowing sections - Circular saws - Knives - Milling cutters - Chainsaws - Chainsaw bars, etc.

f) All components recognized by us as defective and replaced free of charge under warranty will be retained by our Company.

g) Any free replacement of components, even if recognized by us as defective, will not, under any circumstances, be a reason or pretext to extend or suspend payment terms previously agreed upon.

h) During the entire warranty period, machines covered by the aforementioned warranty may not be permanently transferred for use, resold, or exported, under penalty of forfeiture of the warranty itself.

i) Our Company declines all responsibility for damage to persons or property resulting from the use of machines we have manufactured, even if such damage is caused by machines still covered by our warranty.

EC DECLARATION OF CONFORMITY - HERSTELLERERKLÄRUNG - DECLARATION 'CE' DE CONFORMITE - DECLARACION DE CONFORMIDAD - DICHIARAZIONE DI CONFORMITA' EUROPEA - GELIJKVORMIGHEIDSVKLAARING - EC DEKLARATION I OVERENSSTEMMELSE - DECLARAÇÃO CE DE CONFORMIDADE - EY ILMOITUS - FORSAKRAN OM OVERENSSTAMMELSE - BEKREFTENDE EU ERKLÆRING - ΔΗΛΩΣΗ ΕΚ ΣΥΜΜΟΡΦΩΣΗΣ - EUROPEJSKA DEKLARACJA ZGODNOSCI

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

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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:

MOTOTRIVELLA – EARTH AUGER

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

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b) TYPE / TYP / TYPE / TIPO / TIPO / TYPE / TYPE / TIPO / MALLI / TYPBE / TYPE / Πληκτρολογήστε / TYP:

NEA 450 ST – NEA 560 ST – NEA 610 ST – NEA 431 – NEA HO35 – NEA HO50 – NEA TJ 45 E – NEA TJ 53 E – T-170 HO

2000/14/EC (2005/88/EC) – Livelli di potenza sonora come da allegato V – Sound Power Levels performed per annex V		
TIPO TYPE	Livello di potenza sonora misurato/Livello di potenza sonora garantito Measured Sound Power Level/Guaranteed Sound Power Level LWA (dB)	Potenza netta installata Net Power Installed (kW)
NEA 450 ST	94/114	2.00
NEA 560 ST	94/114	2.40
NEA 610 ST	95/115	2.80
NEA HO35	85/105	1.20
NEA HO50	92/112	1.47
NEA 431	88/108	1.25
NEA TJ 45 E	84/109	1.60
NEA TJ 53 E	90/111	2.00
T-170 HO	71/105	3.60

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) SERIAL NUMBER / SERIENNUMMER / NUMERO DE SERIE / NUMERO DE SERIE / NUMERO DI SERIE / SERIENUMMER / SERIENUMMER / NUMERO DE SERIE / SARJANUMERO / SERIENUMMER / SERIE NUMBER / ΑΡΙΘΜΟΣ ΠΑΙΣΙΟΥ / NUMER SERYJNY:

AA19AA000000001 - ZZ23ZZ999999999

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 - ΑΝΑΦΟΡΑ ΣΕ ΠΡΟΤΥΠΑ/ΕΝΑΡΜΟΝΙΣΜΕΝΑ ΠΡΟΤΥΠΑ - ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH:

EN ISO 12100:2010



BLUE BIRD INDUSTRIES – FABBRICA MOTORI s.r.l.

ZANÈ (VI) – ITALIA

26-02-2019

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

(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

BLUE BIRD INDUSTRIES – FABBRICA MOTORI s.r.l.

VANDA VITELLA



BLUE BIRD INDUSTRIES Fabbrica Motori s.r.l.

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