



BLUEBIRD INDUSTRIES

POWER DRILL BB 231



DANGER

**READ THE INSTRUCTIONS CAREFULLY AND FOLLOW THE RULES FOR SAFE OPERATION.
FAILURE TO FOLLOW THIS PRECAUTION MAY RESULT IN SERIOUS INJURY.**

INTRODUCTION



WARNING

IMPROPER USE OR CARE OF THE MACHINE OR FAILURE TO USE ADEQUATE PROTECTION CAN CAUSE SERIOUS INJURY. READ AND UNDERSTAND THE RULES FOR SAFE OPERATION AND ALL INSTRUCTIONS CONTAINED IN THIS MANUAL.

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Labels and Symbols



DANGER

This symbol accompanied by the word “DANGER” draws attention to an act or condition that will result in serious personal injury or death to operators



CAUTION

“CAUTION” indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



WARNING

This symbol accompanied by the word “WARNING” draws attention to an act or condition that may cause serious personal injury or death to operators and bystanders.



The circle and bar symbol means that anything that is

NOTE

This message provides tips for the use, care, and maintenance of the unit.

Symbol	Description	Symbol	Description
	Read carefully the operator's manual		Objects with surface hot
	Wear protection for eyes, ears, and head		Gasoline and oil mixture
	Never touch the rotating auger		Emergency stop

- Read and understand the entire operator's manual before using this machine.
- Follow all danger warnings contained in this manual.

SAFETY



WARNING

USERS RISK INJURY TO THEMSELVES AND OTHERS IF THE POWER DRILL IS USED IMPROPERLY AND/OR SAFETY PRECAUTIONS ARE NOT FOLLOWED. DURING OPERATION. APPROPRIATE CLOTHING AND SAFETY DEVICES MUST BE WORN.

OPERATOR SAFETY

- Read the operator's manual carefully. Make sure you understand how to use the machine correctly before operating it.
- Become familiar with all controls and the proper use of the machine.
- Wear appropriate clothing to protect your legs and other exposed parts of your body.
- Wear shoes with non-slip soles. Do not wear open-toed shoes or operate the machine barefoot.
- Wear protective devices for eyes and hearing.
- Pay attention when handling fuel. Firmly reposition the caps both on the canister and on the fuel tank of the power auger.
- Move at least 3m away from the refueling point and make sure there are no fuel leaks from the tank cap or the fuel system before starting the engine.
- Use this gasoline-powered equipment only in a well-ventilated area.
- Start the machine on the ground with the throttle set to minimum. Do not start if the machine is blocked by soil or any other object.
- Never allow children to use the machine.
- Do not allow anyone to hold the material being drilled.
- Maintain a firm grip on the power auger with both hands, one hand on the front handle, the other on the rear handle.



WARNING

USE A FIRM GRIP WITH YOUR THUMBS AND FINGERS WRAPPED AROUND THE HANDLES. A FIRM GRIP WILL HELP YOU MAINTAIN CONTROL OF THE POWER AUGER. NEVER OPERATE THE MACHINE WITH ONE HAND OR PERSONAL INJURY MAY OCCUR.

- Perform all drilling at full speed. Drilling at less than maximum speed can damage the clutch by causing it to slip.
- Always carry the power auger with the engine off and the muffler away from your body.

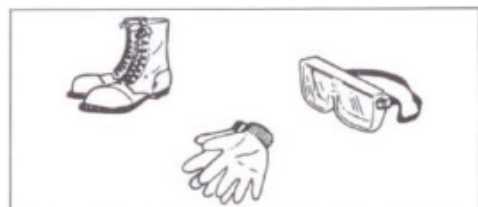


WARNING

ALWAYS TURN OFF THE ENGINE WHEN A DRILL JAM OCCURS. NEVER ATTEMPT TO REMOVE AN OBJECT CAUSING A JAM IF THE ENGINE IS RUNNING. INJURIES MAY OCCUR.

PERSONAL SAFETY DEVICES

- Always wear protective goggles that comply with national standards.
- Wear hearing protection.
- Dress appropriately! Do not wear loose clothing or jewelry, as they could get caught in moving parts. The use of sturdy gloves, non-slip footwear, and safety glasses is recommended.
- Always ensure a secure position when using the machine.
- Wear non-slip, durable work gloves to improve grip on the power auger handles. Gloves also help reduce the transmission of machine vibrations to your hands.



PROTECT OTHERS

Spectators, children, coworkers, and animals must be warned not to approach closer than 5 m during use of the power auger.

People working in the area near you must wear the same protective devices.

PHYSICAL CONDITIONS

Your judgment and dexterity may be impaired if you are ill or have consumed alcohol or other substances known to affect your normal functioning.



WARNING

PRECAUTIONS AGAINST VIBRATIONS AND COLD

IT IS BELIEVED THAT A CONDITION CALLED RAYNAUD'S PHENOMENON, WHICH AFFECTS THE FINGERS OF SOME INDIVIDUALS, MAY BE CAUSED BY EXPOSURE TO VIBRATIONS AND COLD. EXPOSURE TO VIBRATIONS AND COLD CAN CAUSE TINGLING AND BURNING SENSATIONS FOLLOWED BY LOSS OF COLOR AND NUMBNESS IN THE FINGERS. THE FOLLOWING PRECAUTIONS ARE STRONGLY RECOMMENDED BECAUSE THE MINIMUM EXPOSURE THAT COULD TRIGGER THE CONDITION IS UNKNOWN.

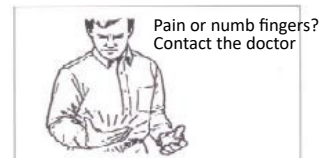
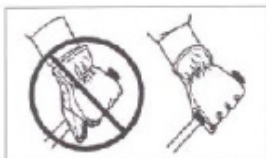
- KEEP YOUR BODY WARM, ESPECIALLY YOUR HEAD, NECK, FEET, ANKLES, HANDS, AND WRISTS.
- MAINTAIN GOOD BLOOD CIRCULATION BY PERFORMING VIGOROUS ARM EXERCISES DURING FREQUENT WORK BREAKS AND ALSO BY NOT SMOKING.
- LIMIT OPERATING HOURS. TRY TO FILL EACH DAY WITH TASKS THAT DO NOT REQUIRE THE USE OF THE POWER DRILL OR OTHER PORTABLE ELECTRICAL EQUIPMENT.
- IF YOU EXPERIENCE DISCOMFORT, REDNESS, AND SWELLING OF THE FINGERS FOLLOWED BY WHITENING AND LOSS OF SENSATION, CONSULT YOUR DOCTOR BEFORE FURTHER EXPOSURE TO COLD AND VIBRATIONS.

Repetitive stress injuries

It is believed that excessive use of the muscles and tendons of the fingers, hands, arms, and shoulders can cause soreness, swelling, numbness, weakness, and extreme pain in those areas. Some repetitive hand activities can put you at high risk of developing a repetitive stress injury (RSI).

To reduce the risk of RSI/CTS, proceed as follows:

- Avoid using the wrist in a bent, extended, or twisted position. Instead, try to keep your wrist in a straight position. Also, when gripping, use your whole hand, not just your thumb and index finger.



- Take periodic breaks to minimize repetitions and rest your hands.
- Reduce the speed and force with which you perform the repetitive movement.
- Exercise to strengthen the muscles of your hands and arms.
- Consult a doctor if you experience tingling, numbness, or pain in your fingers, hands, wrists, or arms. The earlier RSI/CTS is diagnosed, the more likely it is that permanent nerve and muscle damage can be prevented.



WARNING

IF THE INTENDED USE INVOLVES PROLONGED OPERATING PERIODS, THIS MAY CAUSE CIRCULATORY PROBLEMS IN THE USER'S HANDS DUE TO VIBRATIONS.

OPERATING TECHNIQUES

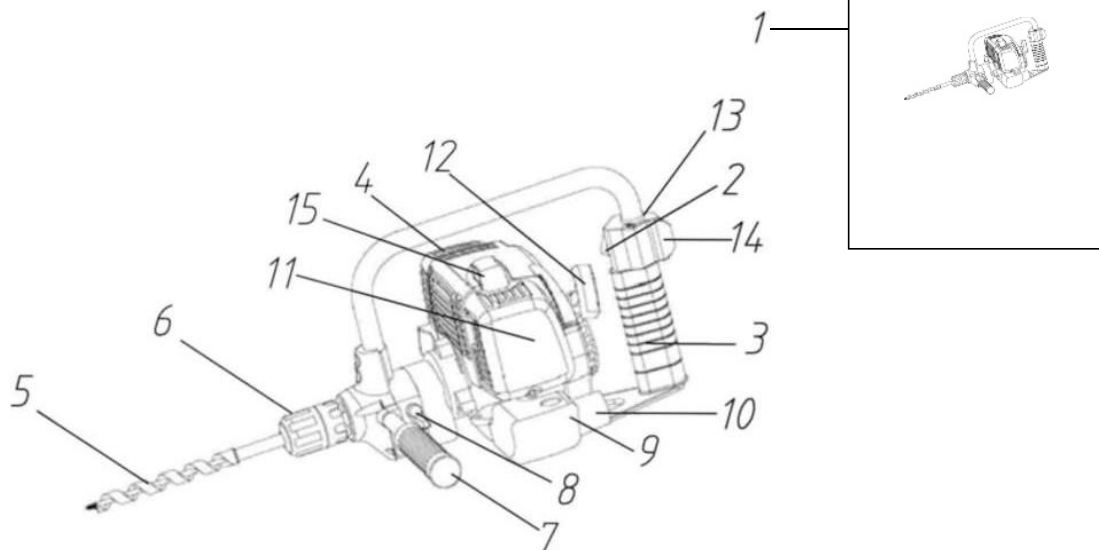


WARNING

IF THE INTENDED USE INVOLVES PROLONGED OPERATING PERIODS, THIS MAY CAUSE CIRCULATORY PROBLEMS IN THE USER'S HANDS DUE TO VIBRATIONS.

- When starting to drill, run the engine at full throttle.
- Do not force and move only at the speed allowed by the machine.
- Turn off the engine and disconnect it from the ignition cable before: cleaning or removing an obstruction; inspection, maintenance, or intervention on the machine.
- Handle fuel with care; it is highly flammable. Never add fuel to a machine with the engine running or hot.
- Do not attempt to repair the machine unless you are qualified to do so.
- Do not operate the machine with a damaged or excessively worn drill bit.
- Always ensure that all handles and guards are installed when using the machine. Never attempt to use an incomplete machine or one with an unauthorized modification.
- During transport or storage of the machine, always remove the drill bit.
- To reduce the risk of fire, keep the engine and muffler free from debris, leaves, or excessive grease.
- Handle the power auger with care, contact with the drills can cause injury.

DESCRIPTION

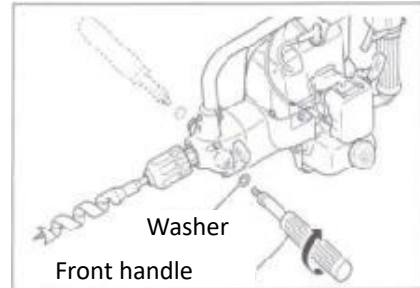


1. Operator's manual - Included with the machine. Read before use and keep for future reference to learn correct and safe operating techniques.
2. Throttle trigger - Device operated by the user to control the engine speed.
3. Rear handle - Handle located farthest from the drill bit.
4. Muffler cover
5. Drill bit - Not included with the machine.
6. Chuck
7. Front handle - Handle located on the front gear housing.
8. Gear lever
9. Fuel tank - Contains fuel and fuel filter.
10. Fuel tank cap - For closing the fuel tank.
11. Air filter cover - Covers the air filter.
12. Starter handle - Pull handle to start the engine.
13. Throttle trigger lock - Device that prevents accidental operation of the throttle trigger until manually released.
14. Ignition switch - Device that allows starting and stopping the engine.
15. Spark plug

ASSEMBLY

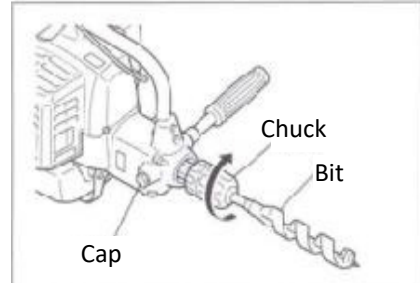
FRONT HANDLE

- Insert the front handle into the machine and turn it clockwise. (TIGHTEN THE SCREW FIRMLY)
- To operate the front handle with your right hand, remove the right plug, then reverse the sides when installing the handle and plug.



BIT

- Loosen the chuck and insert the drill bit (not supplied with the unit). Then tighten the chuck by turning it clockwise.



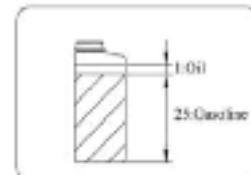
IMPORTANT

BEFORE DRILLING, MAKE SURE TO READ AND UNDERSTAND THE ENTIRE OPERATOR'S MANUAL TO AVOID THE POSSIBILITY OF SERIOUS INJURY.

OPERATIONS

FUEL

- The engine used two-stroke fuel, a mixture of gasoline and 2-stroke lubricant at 25:1.
- The fuel used for this model is a mixture of unleaded gasoline and engine lubricant approved.
- When mixing gasoline with oil for two-stroke engines, use only gasoline that does not contain ETHANOL or METHANOL (types of alcohol). Use branded unleaded gasoline of 89 octane or higher known to be of good quality. This will help avoid possible damage to the engine's fuel lines and other engine parts.



WARNING

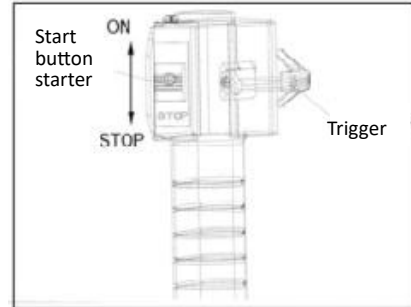
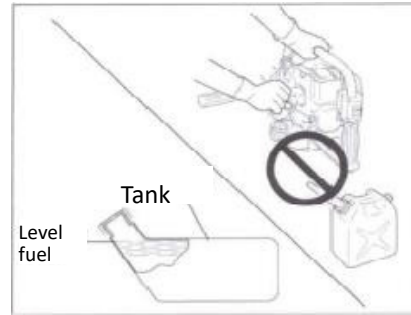
The use of straight gasoline for the engine is strictly prohibited!

FUEL MANAGEMENT

DANGER

AFTER REFUELING, TIGHTLY CLOSE THE FUEL CAP AND CHECK FOR LEAKS. IN CASE OF FUEL LEAKAGE, REPAIR BEFORE STARTING OPERATION AS THERE IS A RISK OF FIRE.

- Never smoke or allow flames or sparks near the fuel.
- Always fill the fuel tank outdoors. Never pour fuel in enclosed areas.
- Always remove the fuel cap slowly to relieve any pressure buildup in the tank.
- Never refuel the engine when it is hot or in operation.
- Always use a fuel container that is approved and safe.
- Do not fill fuel above the shoulder level of the fuel tank.
- After refueling, always wipe up any spilled fuel.
- Always move at least 3 m away from the refueling point before starting the engine.
- Never store the unit with fuel in the tank; a fuel leak could cause a fire.

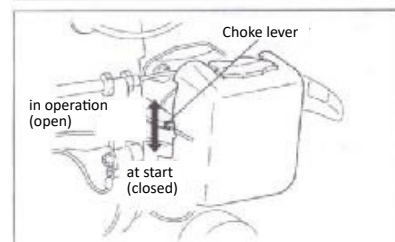
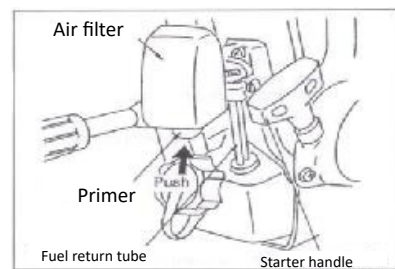


COLD START

WARNING

WHEN STARTING THE ENGINE, CHECK THAT THERE ARE NO VIBRATIONS OR ABNORMAL SOUNDS. IF THERE ARE VIBRATIONS OR ABNORMAL SOUNDS, ASK THE DEALER TO REPAIR IT.

- Place the engine upright on a flat surface.
- Set the ignition switch to the ON (START/RUN) position.
- Press the primer 3/4 times (or until the fuel is visible).
- Move the choke lever to the closed position (START).
- Pull the starter handle until the engine starts.
- Move the choke lever to the fully open position and, if necessary, restart the engine and let it warm up before use.
- The clutch engages at about 3500 rpm. Therefore, the drill bit may rotate at engine idle.



HOT START

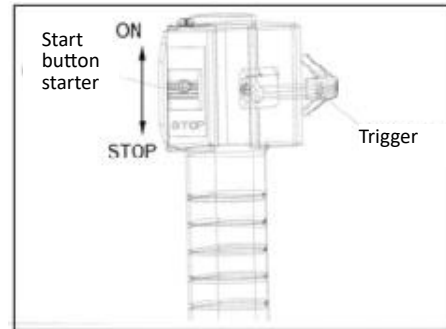
- Set the ignition switch to the ON (START/RUN) position.
- Pull the starter handle until the engine starts.
- Do not use the choke lever.

ENGINE SHUTDOWN

- Set the throttle trigger to the idle position.
- Move the ignition switch to the STOP position.

NOTE

When the engine does not shut off, move the choke lever to the closed position. Check and repair the ignition switch before restarting the engine.

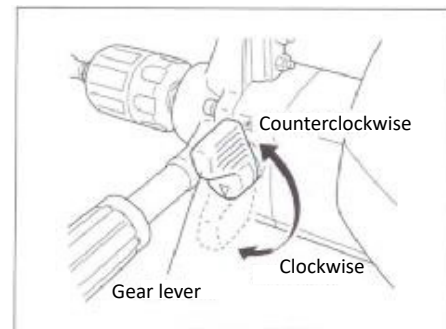


REVERSE ROTATION

- This model is equipped with a reverse rotation mechanism.
- During drilling, set the gear lever downwards to the clockwise rotation position.
- If the bit is stuck due to deep penetration during drilling, set the gear lever to the counterclockwise rotation position and operate it in reverse to facilitate extraction.
- When changing the drill's direction of rotation, proceed as follows:
 - Return the engine to idle.
 - Gear lever of the engine to clockwise or counterclockwise with a slight acceleration of the throttle trigger.

To properly lock the gears in the gearbox.

- Do not forcefully operate the gear lever when changing the direction of rotation.



NOTE

Do not switch from forward to reverse (or vice versa) while the spindle is rotating. Otherwise, the unit may be damaged. Always release the throttle and allow the unit to return to idle before changing gears. Do not stand near drills or spindles with your body or clothing during operation. During drilling, make sure there are no power cables or other obstacles.



WARNING

- WHEN THE DRILL CANNOT BE REMOVED FROM THE WOOD, DO NOT TRY TO FORCEFULLY EXTRACT THE DRILL.
- WHEN CHANGING THE BIT, MAKE SURE TO TURN OFF THE ENGINE.
- AFTER WORK, THE BIT AND THE GEARBOX MAY BECOME HOT, DO NOT TOUCH THEM WITH BARE HANDS.

TROUBLESHOOTING

Problem			Cause	Solution
Engine	- hard to start - does not start			
The engine turns	fuel to the carburetor	no fuel to the carburetor	• Clogged fuel filter • Clogged fuel tube • Carburetor	• Clean or replace • Clean • Contact the dealer
	fuel to the cylinder	no fuel to the cylinder	• Carburetor	• Contact the dealer
		Wet muffler from fuel	• The fuel mixture is too rich	• Open the choke lever • Clean or replace air filter • Adjust the carburetor • Contact the dealer
	Spark at the end of the cable	No spark at the end of the cable	• Ignition switch in off • Electrical problem	• Turn the switch to on • Contact the dealer
	Spark in the spark plug	No spark in the spark plug	• Incorrect spark plug gap • Dirty spark plug • Spark plug covered with fuel • Faulty spark plug	• Adjust from 0.6 to 0.7 mm • Clean or replace • Clean or replace • Replace the spark plug
The engine does not turn			• Internal engine problems	• Contact the dealer
The engine starts	Stalls or accelerates incorrectly		• Dirty air filter • Dirty fuel filter • Clogged fuel vent • Spark plug • Carburetor • Clogged cooling system • Clogged muffler	• Clean or replace • Clean or replace • Clean • Clean and adjust or replace • Adjust • Clean • Clean

MAINTENANCE



WARNING

ALL MAINTENANCE OPERATIONS OF THE POWER AUGER, EXCEPT FOR THE ITEMS LISTED IN THE OPERATOR'S MANUAL, MUST BE PERFORMED BY QUALIFIED SERVICE PERSONNEL.

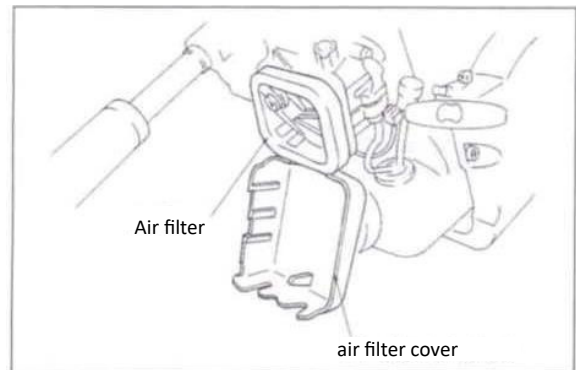
FUEL VAPORS ARE EXTREMELY FLAMMABLE AND CAN CAUSE FIRES AND/OR EXPLOSIONS. NEVER CHECK FOR IGNITION SPARKS BY GROUNDING THE SPARK PLUG NEAR THE CYLINDER CAP HOLE, OTHERWISE SERIOUS PERSONAL INJURY MAY OCCUR.

- If you have any questions or problems, contact your dealer.

AIR FILTER

(Before each use)

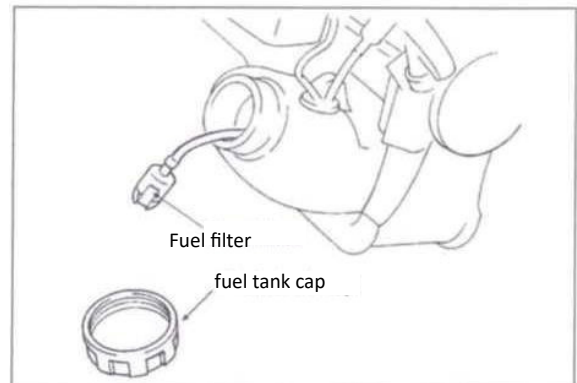
1. Remove the air filter cover and take out the filter.
2. Lightly brush off the dust or wash it with water and detergent.
3. Dry completely before putting it back in place.



FUEL FILTER

(Check periodically)

1. Prevent dust from entering the fuel tank.
2. A clogged filter will cause difficulty starting the engine or poor engine performance.
3. Retrieve the fuel filter through the fuel inlet port.
4. When the filter is dirty, replace it.



FUEL CHECK

(Check before each use)

1. After refueling, make sure that fuel does not leak from the tube, sealing ring, or tank cap.
2. In case of fuel leaks or seepage, there is a risk of fire. Immediately stop using the machine and ask the dealer to inspect or replace it.

SPARK PLUG

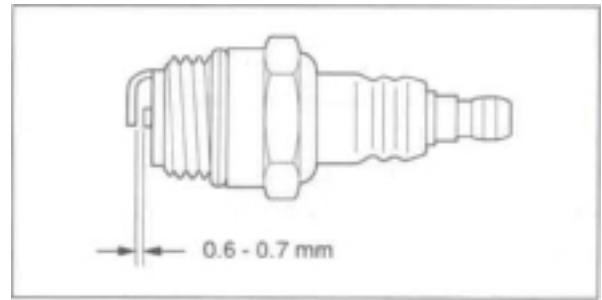
(Check periodically)

1. The standard gap is 0.6 / 0.7 mm.
2. Correct the gap if it is too wide or too narrow.
3. If the electrodes are coated with carbon deposits, replace the spark plug.

Do not sandblast to clean.

Remaining sand will damage the engine.

4. Tightening torque = 15 to 17 N·m (150 to 170 kgf·cm).



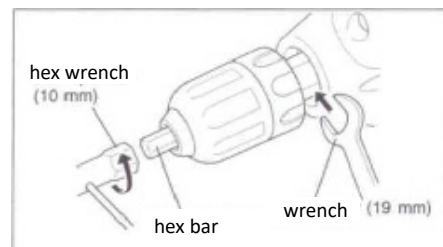
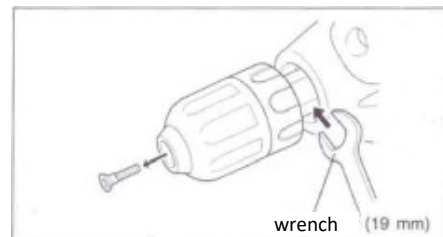
NOTE

Do not overtighten the spark plug.

REPLACE THE CHUCK

The replacement of the chuck must be carried out as follows:

1. Fit a 19 mm wrench onto the motor shaft and hold it steady.
2. Remove the hexagon socket bolt fastened to the motor shaft.
3. Insert the hex bar into the chuck and secure it.
4. Fit a 10 mm socket wrench onto the hex bar and turn it in the direction indicated by the arrow in the figure to remove the chuck.
5. Install a new chuck in the reverse order of removal.



ADJUST THE CARBURETOR

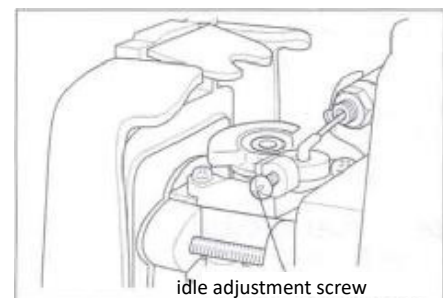
(As required)

GENERAL INFORMATION

The idle adjustment screw controls the throttle opening in the idle position.

IDLING ADJUSTMENT

1. Start the engine and let it idle until it is warm.
2. Turn the idle screw clockwise until the drill bit starts to move.
3. Turn the idle screw counterclockwise 1 and 1/2 to 2 turns or until the drill bit stops (from 2700 to 3300 rpm).



NOTE

If you have problems with the carburetor, contact your dealer.

CLEAN THE CYLINDER FINS

(Check periodically)

NOTE

Clogged fins cause poor engine cooling.

1. Carefully remove the cylinder cover and clean dirt and dust from the fins.
2. Reinstall the cylinder cover.

CLEANING THE MUFFLER AND CYLINDER EXHAUST PORT

(Check periodically)

1. Carefully remove the cover.
2. Remove and disassemble the muffler.
3. Clean deposits from the cylinder exhaust port and the muffler.

NOTE

Be careful not to scratch the cylinder or piston when cleaning the cylinder exhaust port

STORAGE

LONG-TERM STORAGE (Over 30 days)



WARNING

DO NOT STORE IN AN ENCLOSED AREA WHERE FUEL FUMES CAN ACCUMULATE OR REACH OPEN FLAMES OR SPARKS.

Do not store the unit for a prolonged period (30 days or more) without performing protective maintenance, which includes the following:

1. Store the unit in a dry, dust-free place, out of the reach of children and other unauthorized persons.
2. Move the ignition switch to the STOP position.
3. Remove grease, oil, dirt, and debris buildup from the outside of the unit.
4. Perform all periodic lubrication and necessary servicing.
5. Tighten all screws, bolts, and nuts.
6. Completely empty the fuel tank and pull the recoil starter handle several times to remove fuel from the carburetor.
7. Remove the spark plug and pour 1/2 tablespoon of fresh, clean 2-stroke engine oil into the cylinder through the spark plug hole.
 - A. Place a clean cloth over the spark plug hole.
 - B. Pull the recoil starter handle 2 or 3 times to distribute the oil inside the engine.
 - C. Observe the position of the piston through the spark plug hole. Slowly pull the recoil starter handle until the piston reaches the top of its stroke and leave it there.
8. Install the spark plug (do not connect the ignition cable).

TECHNICAL SPECIFICATIONS

Power auger	Model	BB 231
	Type of transmission	Centrifugal clutch
	Rotation	Clockwise
	Hole diameter (mm)	Ø2 - Ø13
	Hole depth (mm)	140
	Tank capacity (L)	0.4
	Dimensions (mm)	680×340×260
	Net weight (kg)	4.1
Engine	Model	1E32FN
	Type	Single-cylinder, air-cooled, 2-stroke engine
	Displacement (cc)	23
	Maximum power	0.6kW/7000/r/min
	Carburetor	Diaphragm
	Coil type	CDI
	Starting type	Recoil start
	Fuel/Oil Ratio	25: 1

EC DECLARATION OF CONFORMITY - HERSTELLERERKLÄRUNG - DECLARATION 'CE' DE CONFORMITE - DECLARACION DE CONFORMIDAD - DICHIARAZIONE DI CONFORMITA' EUROPEA - GELIJKVORMIGHEIDSVERKLARING - 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 – 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:
MOTOTRAPANO – ENGINE DRILL

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 / ΤΥΠΟΣ / TYP:

BB 231

2000/14/EC (2005/88/EC) – Livelli di potenza sonora come da allegato V – Sound Power Levels performed per annex V	
TIPO	Livelli di Potenza Sonora Misurata / Livelli di Potenza Sonora Garantita LWA Sound Power Levels Measured / Sound Power Level Guaranteed LWA (dB)
BB 231	94 / 113

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 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 ΣΤΑ ΠΡΟΤΥΠΑ/ΕΝΑΡΜΟΝΙΣΜΕΝΑ ΠΡΟΤΥΠΑ - ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH:

EN ISO 11148-3:2012

Importato da - Imported by - Eingeführt von - Importé par - Importado por:



BLUE BIRD INDUSTRIES – FABBRICA MOTORI s.r.l.
ZANE' (VI) – ITALIA 26-08-2024
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
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(DK) Teknisk dokumentation tilhandhallen av
(FI) Teknisten asiakirjojen ylläpitäjä
(NO) Teknisk dokumentasjon vedlikeholdt av

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BLUE BIRD INDUSTRIES Fabbrica Motori s.r.l.

Via Due Camini, 19
36010 ZANÉ ITALIA

Tel. 0445 314138

Fax 0445 314225

www.bluebirdind.com