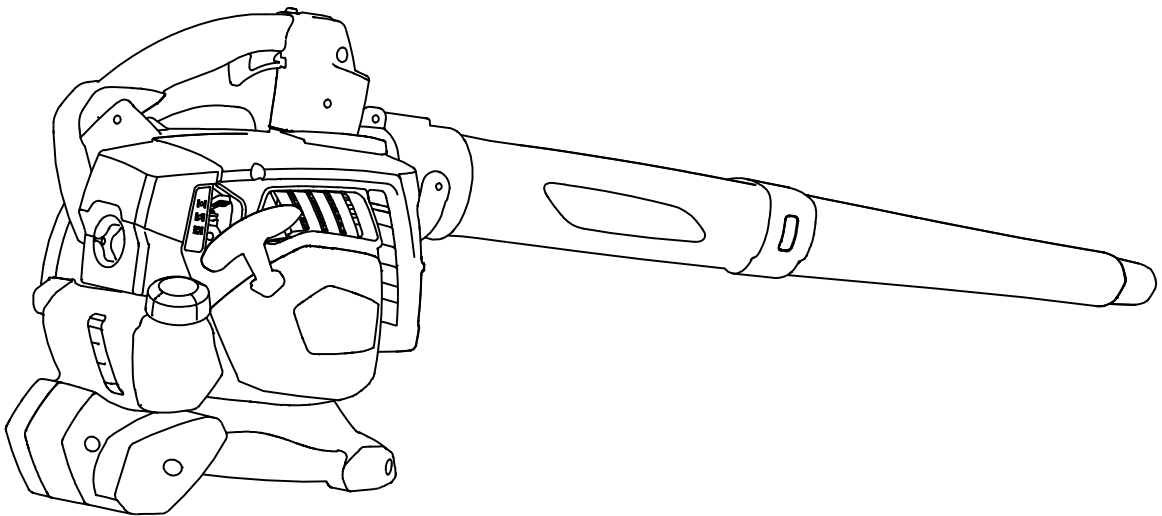




**BLUEBIRD
INDUSTRIES**

BLOWER WITH VACUUM KIT

MODEL: BLV281



-original instructions-

EN

INTRODUCTION

BLV 281 engine blower has been designed and built to deliver superior performance and reliability without compromise to quality, compromise to quality, comfort, safety, or durability BLV 281 high performance engines represent the leading edge of 2-cycle engine technology, delivering exceptionally high power at remarkably low displacement and weight . As a professional owner/operator, you'll soon discover why BLV 281 is simple in a class by itself!
IMPORTANT!

The information contained in this manual describes available at the time of production. While every attempt has been made to give you the very latest information about your BLV 281, there may be some differences between your machine and what is described here . We reserves the right to make changes in production without prior notice, and without obligation to make alterations to machines previously manufactured. Before using this product, consult local regulation noise restrictions and hours of operation.



CAUTION!

This BLV 281 engine machine is equipped with a speak-arrestin g muffler. Never operate this machine without both the muffler and spark arrestor installed and properly functioning!

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ATTENTION STATEMENTS

This manual contains special “attention statements” surrounded by boxes and preceded by the triangular Attention Symbol



WARNING!

A statement preceded by WARNING contains Information that should be acted upon to prevent serious bodily injury.



CAUTION!

A statement preceded by the word “CAUTION” contains information that should be acted upon to prevent machine damage.

Additional attention statements that are not preceded by the Attention Symbol are:

IMPORTANT!

A statement preceded by the word “IMPORTANT” is one that possesses special significance.

NOTE:

A statement preceded by word “NOTE” contains information that is handy to know and may make your job easier.



- Special safety precautions must be observed when working with the power tool.



- Read this user’s manual carefully before using this machine



- Wear eye and earing protection



- Never operate this machine when you are fatigued, ill or under the influence of alcohol.



- Never smoke when working with this machine



- Never allow children or anyone unable to fully understand the manual to use this machine



- Clothing must be sturdy and snug-fitting, but allow complete freedom of movement—the safety clothing is recommended.



- Wear heavy-duty, nonslip gloves, preferably made of chrome leather.



- Unit vibrations can cause an improperly tightened fuel cap to loosen or come off and spill quantities of fuel.

In order to reduce risk of fuel spillage and fire, tighten fuel cap.



- **Warning !** Your blower produces toxic exhaust fumes when the engine is running. These gases (e.g. carbon monoxide) may be colorless and odorless. To reduce the risk of serious or fatal injury from breathing toxic fumes, never run the blower indoors

or in poorly ventilated locations.



- Danger from rotating impeller! Stop the engine before installing or removing the machine tubes! Never perform any maintenance or assembly procedures on this machine while the engine is running.



- Never direct the machine stream toward people or animals!

- Operate the machine only at reasonable hours-not early in the morning or late at night when people might be disturbed. Comply with times listed in local ordinances.

- Use rakes and machine at the lowest possible engine speed to do the job.

- In dusty conditions, slightly dampen surfaces or use mister attachment if available.

- Use the full blower nozzle extension so the air stream can work close to the ground.

- Watch out for children, pets, open windows etc. and blow debris safely away.

PRODUCT DESCRIPTION!

The operational procedures described in this manual are intended to help you get the most from your machine and to protect you and others from harm. These procedures are general guidelines only, and are not intended to replace any safety rules/laws that may be in force in your area. If you have any question regarding your BLV 281 blower vacuum, or if 5

you do not understand something in this manual, your dealer will be glad to assist you.



WARNING!

Do not make unauthorized
Modifications to this machine

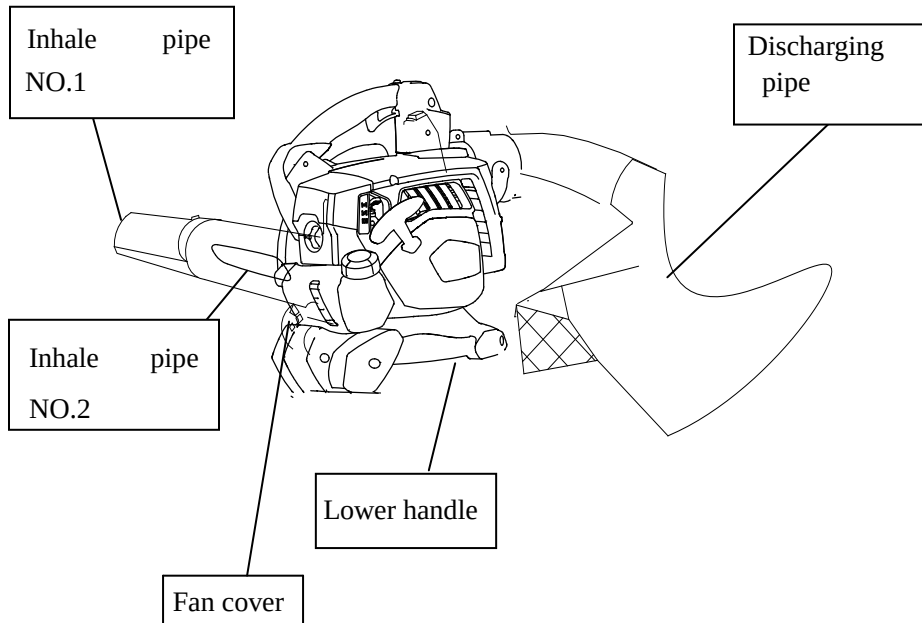
SPECIFICATIONS

Model	BLV 281
Dimensions(L × W × H)	550 × 330 × 420
Engine Type	1E34FCN
Cylinder Diameter	34mm
Displacement	27.2cc
Fuel	Gasoline/oil mixture 40:1
Carburetor	Membrane type primer pump
Way of ignition	CDI
Spark plug	RCJ6Y
Starting	Recoil starter
Fuel Tank Capacity	0.5L
Net Weight	4.6kg
Rated Power (KW/r/min)	0.8/7500
Idle speed (r/min):	3000 ± 200

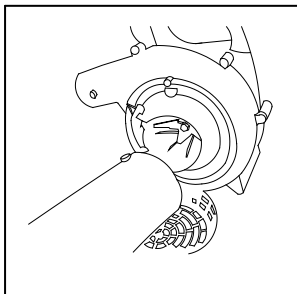
ASSEMBLING THE MACHINE

1. Assembling the vacuum

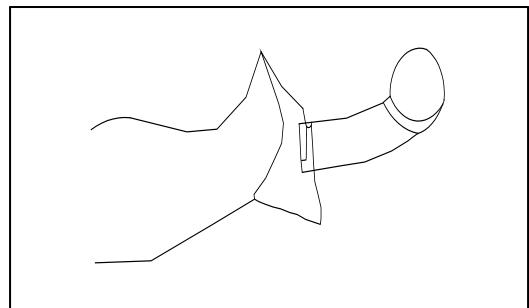
(1) Nomenclature



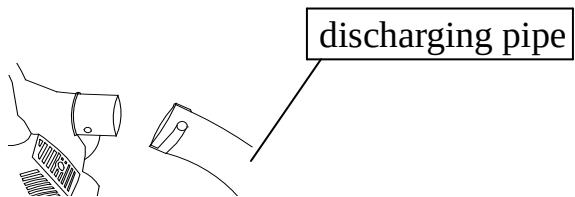
(2) Assembly



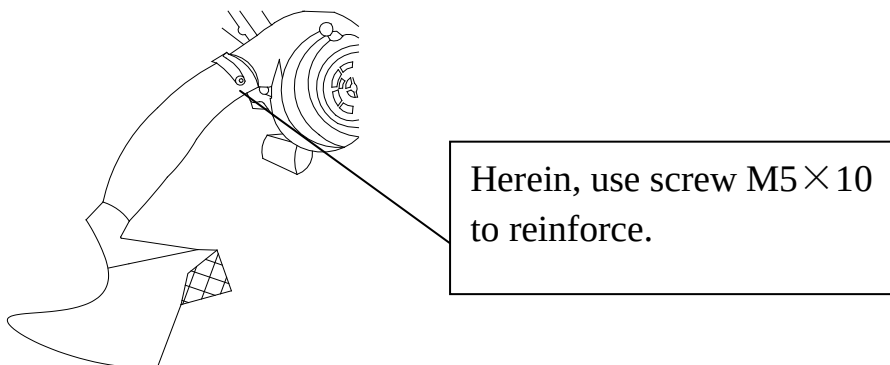
Open the fan cover,
connect inhale pipe
No.1 and No.2



Insert discharging pipe into dust
bag from the jaws of the slide
fastener according to the picture
discharging pipe.

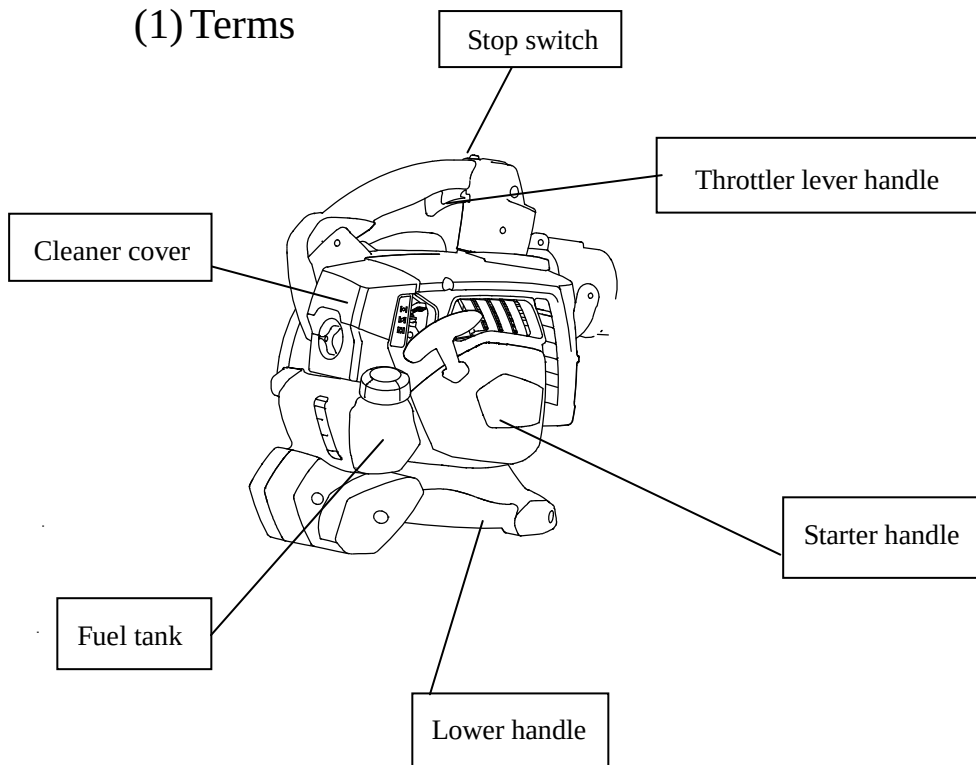


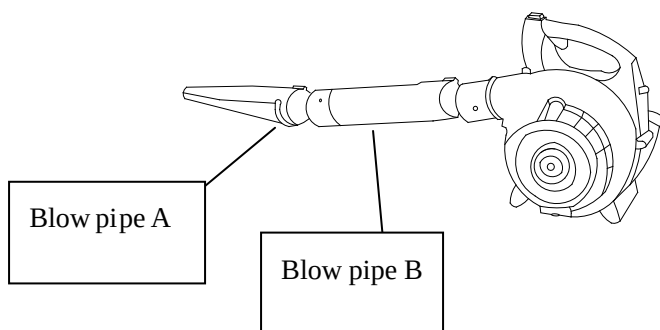
Put the discharging pipe to the machine.



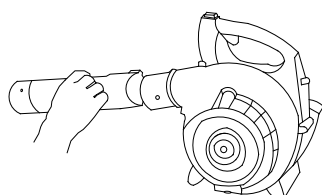
2. Install blower machine

(1) Terms

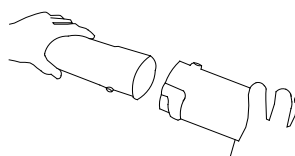




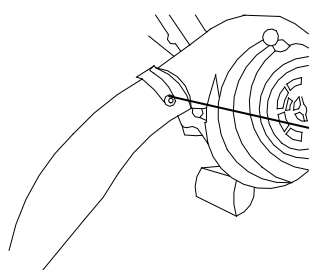
(2)Install



Put blow pipe B to the machine
by rotating



Put blow A to B by
rotating



Use screw M5 × 10 to
reinforce

IMPORTANT!

Mix only enough fuel for your immediate needs! If fuel must be stored longer than 30-days, it should first be treated with a stabilizer or equivalent product!

MIXING FUEL

Fuel requirements

- ☐ Use only fresh, clean fuel
- ☐ Use only fuel with an octane rating of 90 or high

- Mix all fuel with premium 2-cycles engine oil at a gasoline/oil ratio of 40:1



CAUTION!

Never attempt to mix fuel in the machine fuel tank! Always mix all fuels in a clean, approved container!

Some gasoline contain alcohol as an oxygenated! Oxygenated fuels may cause increased engine operating temperatures! Under certain conditions, alcohol-based fuels may also reduce the lubricating qualities of some mixing

oils! Never use any fuel containing more than 10% alcohol by volume! When an oxygenated fuel must be used fuel containing an ether-based oxygenates such as MTBE is to be preferred over alcohol!

Whenever possible use 2-cycle oil or equivalent oil mixed at a 40:1 ratio. Be aware that generic oils and some outboard mixing oils may not be intended for use in high-performance air cooled 2-cycle engines, and should never be used in your engine machine.



WARNING

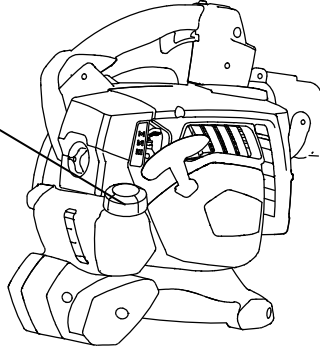
Danger of fire! Never transfer or store fuels in the presence Of combustible materials! Before starting the engine, always move the machine to a clear area at least 10-feet (3-meters) away from fuels and other combustible materials!

IMPORTANT!

Mix only enough fuel for your immediate needs! If fuel must be stored longer than 30-days, it should first be treated with a stabilizer or equivalent product!

FILLING THE FUEL TANK

Remove the fuel cup



WARNING!

Danger of fire and burn injury!

- ☐ Always use extreme care when handling fuel! Fuel is highly flammable!
- ☐ Never operate this blower if fuel system components are damaged or are leaking!
- ☐ Never attempt to refuel the engine while it is running !
- ☐ Never attempt to refuel a hot engine! Always allow the blower engine to cool before fueling!

- ☐ Never smoke or light any fires near the blower or fuel!
- ☐ Always transport and store fuels in an approved container!
- ☐ Never place flammable material close to the engine muffler!
- ☐ Never operate the blower without a properly functioning muffler and spark arrestor installed!
- ☐ Never operate the blower unless it is properly assembled and in good working condition!

1. Place the machine on the ground or on a sturdy work surface, and wipe any debris from around the fuel cap.
2. Remove the fuel cap.
3. Fill the tank with clean, fresh fuel.
4. Replace the cap, and wide away any spilled fuel before starting the machine.

STARTING THE MANCHINE



WARNING!

The recoil starter can be damaged by abuse!

<Never pull the starter cord to its full length!

<Always engage the starter before cranking the engine!

<Always rewind the starter cord slowly!

Never operate the machine if the tubes are missing or damaged

STARTING POSITION

- a **WARNING:** When starting engine, hold the unit as instructed. Do not set unit on any surface except a clean, hard area when starting engine or while engine is running. Debris such as gravel, sand, dust, grass, etc. could be picked up by the air intake and thrown out through the discharge opening, damaging the unit or property, or causing serious injury to bystanders or the operator.



STARTING A COLD ENGINE (or a warm engine after running out of fuel)

Throttle Control Positions:

 FULL CHOKE

 HALF CHOKE

 NO CHOKE

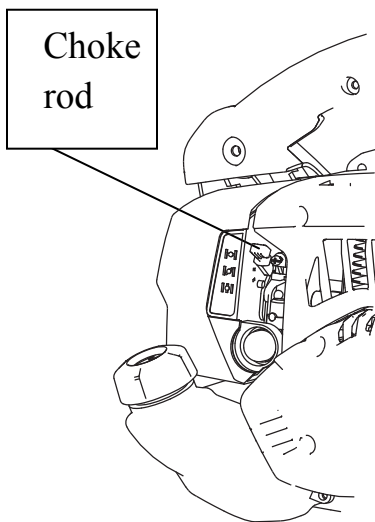
1. Slowly press the fuel primer bulb 10 times.
2. Put the choke lever in the FULL CHOKE position.
3. Squeeze the throttle trigger to full speed position (trigger tight against the grip).
4. Pull starter rope handle sharply until engine attempts to run, but no more than 3 pulls.

NOTE: If the temperature is less than 4°C (40°F), continue to pull the starter rope handle until the engine tries to start.

5. Put the choke lever in the HALF CHOKE position.
6. Pull starter rope handle sharply until engine runs.
7. Allow the engine to warm up for 10 seconds.
8. Put the choke lever in the NO CHOKE position.

If the engine does not start

Repeat the appropriate starting procedures for “hot” or “cold” engine. If the engine still will not start, follow the “Starting a Flooded Engine” procedure (below).



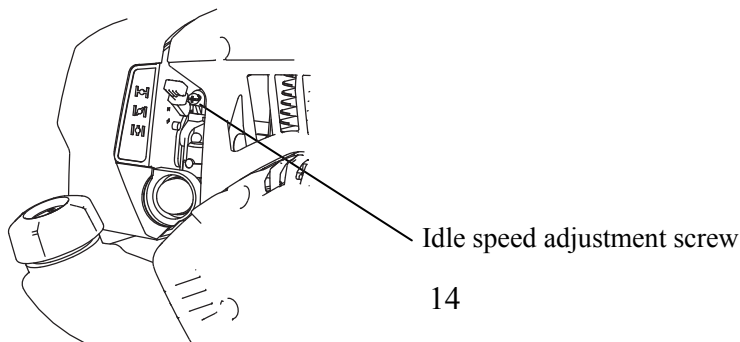
WARNING!

Incorrect spark plug installation
Can result in serious engine
damage!

Starting a flooded engine

1. Disconnect the spark plug lead, and use the spark plug wrench to remove the plug in a counterclockwise direction.
2. If the spark plug is fouled or is soaked with fuel, clean or replace the plug as required.
3. Clean excess fuel from the combustion chamber by cranking the engine several times while the spark is removed.
4. Install the spark plug and firmly tighten it with the spark plug wrench. If a torque wrench is available, torque the spark plug to 148-165 inch-pounds. Reconnect the spark plug lead.
5. Repeat the starting procedures for “warm engine”
6. If the engine still fails to fire or start, refer to the troubleshooting flowchart at the end of this manual.

ADJUSTING ENGINE IDLE SPEED



1. Start the engine by following the procedures described on the preceding pages.
2. Run the engine at idle speed until operating temperature is reached (2-3 minutes)
3. Use a screwdriver to adjust the engine idle speed to $3000 \pm 200 \text{r/min}$
 - ☐ Turn the idle screw clockwise to increase engine idle speed.
 - ☐ Turn the idle screw counterclockwise to decrease engine idle speed.

IMPORTANT!

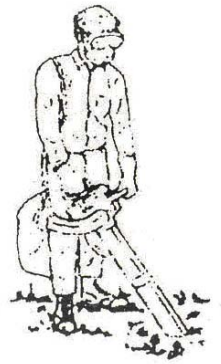
Machine tubes and intake cover must be installed while adjusting engine idle! Engine idle speed will also be affected if either the intake cover or machine tubes are blocked, damaged or incorrectly installed!

STOPPING THE ENGINE

1. Cool the engine by allowing it to run at idle for 2 to 3 minutes.
2. Stop the engine by pulling the stop switch.
 - (1) Machine noise increases at higher throttle setting!
Always use the lowest throttle setting required to get the job done!
 - (2) Never operate the blower when visibility is poor.
 - (3) Always wear eye protection such as face shield or goggles while operating this machine.
 - (4) Wear a dust mask to reduce the risk of inhalation injuries.
 - (5) Wear close-fitting clothing to protect your legs and arms.
 - (6) Wear hearing protection when operating this machine.
 - (7) Never operate the blower if any component parts are damaged, loose, or missing.

1 Using the vacuum

When using the blower vac., examine the collection bag timely. When it is full, please open the zip on the collection bag and clear it.



2 Using the blower

Always be aware of the strength and direction of stream. Never direct the blower discharge stream toward people or animals.



ROUTINE MAINTENANCES

Daily maintenance



WARNING!

Before performing any maintenance on this machine, stop the engine and disconnect the spark plug wire!

☐ Remove dirt and debris from the blower Exterior.

- ☐ Inspect the engine, tank, and hose for possible fuel leaks, and repair as necessary.
- ☐ Inspect the engine cooling fins for accumulations of dirt or debris, and clean as necessary.
- ☐ Inspect the entire machine for damage, loose or missing components or fastenings, and repair as necessary.

EVERY 10 HOURS (MORE FREQUENTLY IN DUSTY CONDITIONS)

1. Loosen the air cleaner cover retaining screw, and remove the cover and filter element.

2. Inspect the element. If the element is distorted or damaged, replace it with a new one.
3. Wash the element in clean fuel, and squeeze or blow dry. Wash the air cleaner cover in clean fuel, and wipe or blow dry.
4. Install the element and cover, and the tighten the cover retaining screw.

EVERY 10/15 HOURS

1. Use the spark plug wrench to remove the spark plug (turn counter-clockwise to remove)
2. Clean and adjust the spark plug gap to 0.6-0.7mm. Replace any damaged or visibly worn plug with a champion RCJ6Y or equivalent.
3. Install the spark plug finger-tight in the cylinder head, and then tighten it firmly with the spark plug wrench. If a torque wrench is available, torque the spark plug to 148-165 inch pounds.

EVERY 50 HOURS

More frequently if you note reduced performance

INSPECTION Inspect the entire machine and tubes for damage, including loose or missing components, and repair as necessary.

SPARK PLUG Replace the spark plug with a champion RCJ6Y, gapped to (0.6-0.7)mm.

FUEL FILTER Use a wire hook to extract the fuel filter from inside the fuel filter, and then remove and wash the filer element in clean fuel.

Before reinstalling the filter, inspect the condition of the fuel line. If damage or deterioration is noted, the vacuum should be removed from service until it can be inspected by a trained service technician.



CAUTION!

Never allow dirt or debris to enter the cylinder bore!

Before removing the spark plug. Thoroughly clean the the spark plug and cylinder head area!

Allow the engine to cool before servicing the spark plug!

Cylinder tightening or loosening the spark plug while the engine is hot!

Incorrect spark plug installation can result in serious engine damage!

STORAGE(30 days or longer)

- ☐ **CLEANING** Thoroughly clean the machine exterior.
- ☐ **INSPECTION** Inspect the entire machine and tubes for damage, including loose or missing components, and repair as necessary.
- ☐ **FUEL** Drain the fuel tank, and clear the carburetor and lines by running the machine until it stops from lack of fuel.
- ☐ **LUBRICATION** Remove the spark plug, and then pour approximately 1/4-oz of oil into the cylinder through the spark plug hole. Before reinstalling the spark plug, pull the recoil starter 2 to 3 times to distribute the oil over the cylinder walls.
- ☐ **AIR CLEANER** Remove, clean, and reinstall the filter element as described under .

TROUBLESHOOTING

1. Troubles and remedies

	Problem	Cause	Remedy
The plug does not spark	Spark plug	1. Poles wet	Dry it
		2. Covered with carbon	Clean
		3. The insulation damaged	Replace
		4. Spark gap mcorrect	Adjust 0.6~0.7mm
		5. The poles bumed	Replace
	Magneto	1. The wrap of wire damage	Remedy or replace
		2. Insulation of coil bad	Replace
		3. The wire of coil broken	Replace
		4. The electronic firing unit defective	Replace
The plug works well	Compression ratio and fueling well	1. Too much fuel in cylinder	Drain
		2. Water or dirt in fuel	Replace
	Fueling well but compression ratio bad	1. Cylinder and piston ring wore or tore	Replace them
		2. The plug loose	Tighten it
	Carburetter not fueling	1. No fuel in tank	fuel
		2. Fileter gausse clogged	Clean
		3. The air hole of the tank clogged	Clean

2. Engine lacks power

Problem	Cause	Remedy
The compression ratio is fine	1. The filter plate clogged	Clean
	2. Air passed through the union	Tighten
	3. Air passes through the connection of carburetter	Tighten
	4. Engine overheat	Stop the engine and cool it avoid long-time heavy load and high speed
	5. Water in fuel	Refill with fresh fuel
	6. The carbon clogs muffler	Clean
Engine overheat	1. Mixed gas(fuel)thin	Adjust the carburetter.
	2. Cylinder covered with carbon	Clean
	3. Oil bad	Use 2-T engine oil and adjust the mix ration
	4. Engine not correctly running (no nozzle)	Correctly assembly the machine
Engine noisy knocking	1. Fuel bad	Replace
	2. Carbon in cylinder	Clean
	3. The running parts wore and tore.	Check and replace

3. Engine stops while running

Problem	Cause	Remedy
Engine stops suddenly	1. The lead wire of plug loose	Replace firmly
	2. Piston bitten	Change to remedy
	3. Plug covered with carbon	Clean plug
	4. Fuel used up	Fill the fuel tank
The engine stops slowly	1. Carburetter clogged	Clean
	2. The air hole in the tank clogged	Clean
	3. Water in fuel	Refill with fresh fuel

4. Dusting

Problem	Cause	Remedy
Discharge no dust or do intermittently	1. Dust gate no open	Adjust the pulling rod of dust gate
	2. Tank lid loose	Tighten
	3. The entrance of fan clogged	Clean
	4. Dust or granules mix with foreign body	Clean
	5. Dust or granules lumps	Break the lump
	6. Dust or granules wet	Dry it
	7. Granules too big	Replace
Dust leakage	1. The sealing washer of the tank damaged	Remedy
	2. Spanner of chemical tank loose	Tighten it

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 OVERENSSTÄMMELSE - BEKREFTENDE EU ERKLÆRING - ΔΗΛΩΣΗ ΕΚ ΣΥΜΜΟΡΦΩΣΗΣ - EUROPEJSKA DEKLARACJA ZGODNOSCI

1) MANUFACTURER - HERSTELLER - FABRICANT - FABRICANTE - COSTRUTTORE - CONSTRUCTEUR - PRODUCTENT - FABRICANTE - VALMISTAJA - TILLVERKARE - FABRIKANT - Κατασκευαστής - PRODUCENT: SHANDONG YONGJIA POWER CO., LTD.

The South Part Of Kunming Road, Linyi Economic And Technological Development Area, 276024 Linyi City, Shandong P.R.C.

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 MASKINERIE - ΠΕΡΙΓΡΑΦΗ ΤΩΝ ΜΗΧΑΝΩΝ - OPIS MASZYN: ASPIRATORE/SOFFIATORE - LEAF BLOWER AND VACUUM

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

BLUE BIRD INDUSTRIES Fabbrica Motori srl

Via Due Camini 19, 36010 Zanè (VI), Italia

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

EBV280A / BLV 281

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)
EBV280A/BLV 281	90/105

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 STANDARDIEHIN/YHTEISIIN STANDARDIEHIN - REFERERANDE TILL STANDARDER/HARMONISERADE STANDARDER - HENVISNING TIL STANDARD/FELLES STANDARD - ANAΛΟΓΑ ΕΕ ΕΦΕΤΟΜΕΝΑ/ENAPMONIΕΜΕΝΑ ΕΦΕΤΟΜΕΝΑ - ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH:

EN ISO 15503:2009+A2:2015

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



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

ZANÈ (VI) - ITALIA

25 - 02 - 2019

The chairman - Der vorsitzender - Le président - El presidente - Il presidente - De voorzitter - Daglig leder - O presidente - Toimitusjohtaja - Verktällande direktör - Administrerende direktør - Ο ΠΡΟΕΔΡΟΣ - Prezes

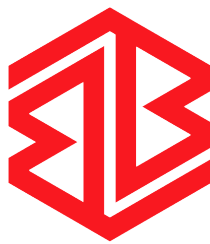
VANDA VITELLA

(GB) Technical documentation maintained by
(F) Documentation technique maintenue par
(I) Documentazione tecnica conservata da
(DK) Teknisk dokumentation tilhåndhællen 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 tillhandhållen av
(GR) τεχνικό φάκελο που τηρείται από

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VANDA VITELLA



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