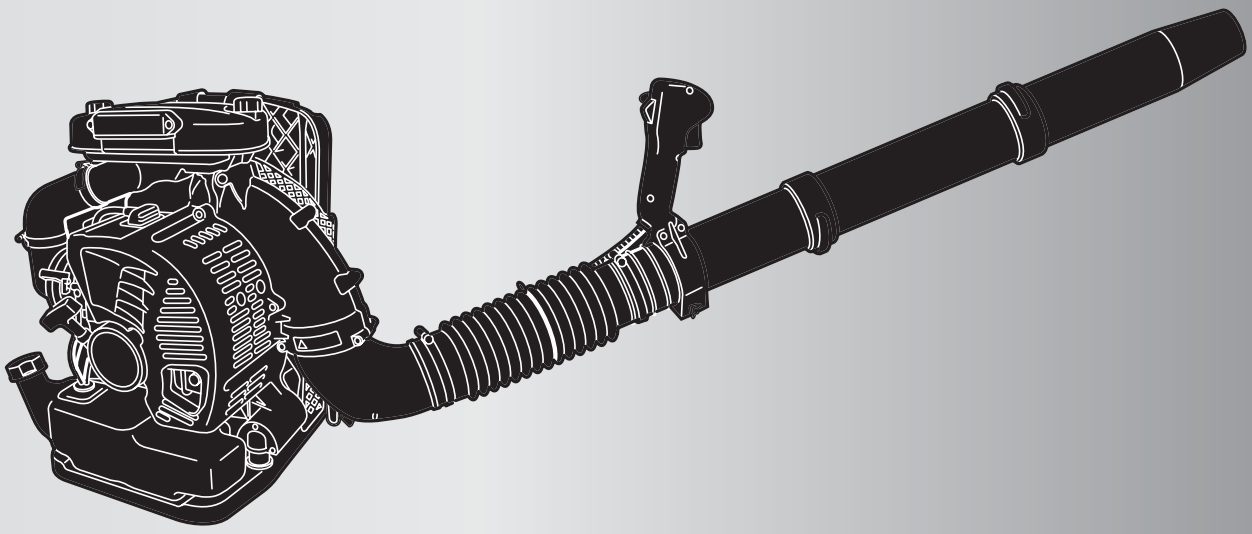
ZENOAH
KOMATSU

GB

OWNER'S MANUAL

BACKPACK BLOWERS



EBZ8000

EC DECLARATION OF CONFORMITY

We, KOMATSU ZENOAH CO.,
1-9, Minamidai, Kawagoe, Saitama, Japan
declare in sole responsibility that the following products referred to in this declaration conform with
DIRECTIVE 89 / 336 / EEC , 98 / 37 / EC
2000/14/EC Internal contorol production.

The products referred to are:

DESIGNATION : **BLOWERS**

MODELS : **EBZ8000**

SERIAL NUMBERS : **40600101 and up**

The company named above will keep on file the following technical documentation for any inspection purpose.

- Operation instructions
- Plans and Drawings
- Description of measures designed to ensure conformity
- Other technical documentation : Specification sheet
  Inspection standard

Saitama, Japan 1st June 2004

Isamu NAKAZATO
General Manager, Quality Assurance Department

EXPLANATION OF SYMBOLS AND SAFETY WARNINGS

WARNING!!!
RISK OF DAMAGING HEARING

IN NORMAL CONDITIONS OF USE, THIS MACHINE
MAY INVOLVE A DAILY LEVEL OF PERSONAL EXPOSURE TO NOISE
FOR THE OPERATOR EQUAL TO OR GREATER THAN

85 dB(A)

MODEL		SOUND LEVEL		VIBRATION LEVEL ON HANDLE	
		ISO 11094			
		LwA		ISO 7916	
		measured	guaranteed	idling	racing
EBZ8000	71.9 cm^3	110 dB(A)	112 dB(A)	1.5 m/s^2	2.7 m/s^2

APPROVAL NUMBER OF CE EXHAUST EMISSION REGULATION (2002/88/EC)
e13*97/68SH3G3*2002/88*0106*00

⚠ SAFETY FIRST

Instructions contained in warnings within this manual marked with a ⚠ symbol concern critical points which must be taken into consideration to prevent possible serious bodily injury, and for this reason you are requested to read all such instructions carefully and follow them without fail.

WARNINGS IN THE MANUAL

⚠ WARNING

This mark indicates instructions, which must be followed in order to prevent accidents, which could lead to serious bodily injury or death.

❗ IMPORTANT

This mark indicates instructions, which must be followed, or it leads to mechanical failure, breakdown, or damage.

NOTE

This mark indicates hints or directions useful in the use of the product.

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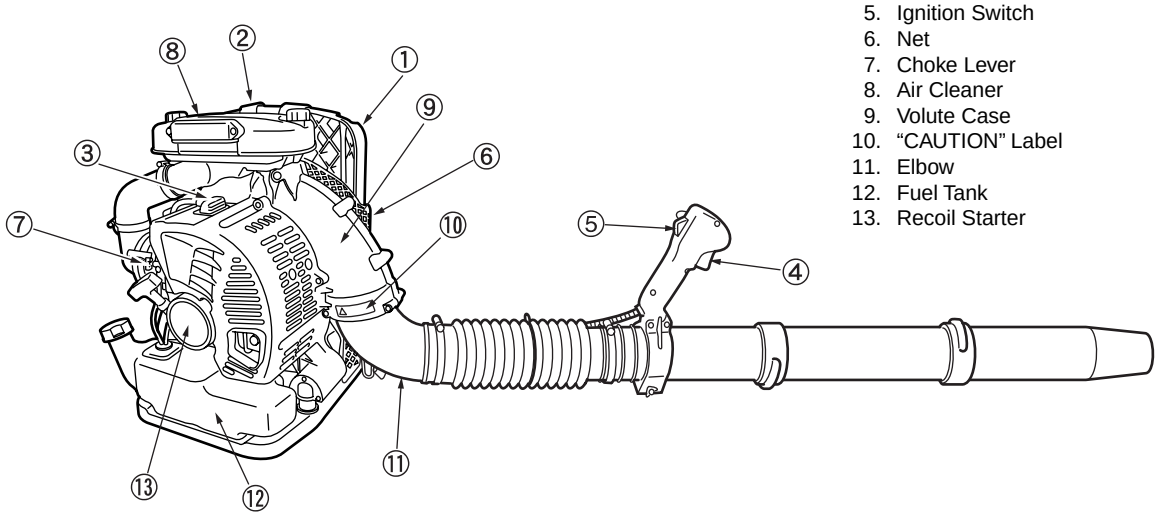
1. Parts location



2. Specification

Model		EBZ8000
Dimensions (LxWxH)	mm	380 x 490 x 496
Dry weight	kg	11.3
Fuel tank capacity	liter	2.3
Engine Type		Air cooled 2-cycle gasoline engine
Displacement	cm^3	71.9
Air Filter		2-stage fresh flow filter system
Carburetor		Rotary
Ignition system		C.D.I.
Spark plug		CHAMPION RZ7C (Noise-proof)
Muffler		Spark arrester equipped
Operating Engine Speed	rpm	2000 to 7100
Fuel Consumption	liter/h	1.9
Average Air Volume (w/std Pipe)	cu.m/min.	19.5
Maximum Air Volume (w/o Pipe)	cu.m/min.	26.7
Max. Air Velocity	m/sec.	91
Durability Period	hrs.	300

Specifications are subject to change without notice.

3. Warning labels on the machine

Read owner's manual before operating this machine.

Wear head, eye and ear protection.

Warning / Attention

Keep all children, bystanders and helpers 15 meters away from the machine.

If warning label peels off or becomes soiled and impossible to read, you should contact the dealer from which you purchased the product to order new labels and affix them in the required location(s).

Never modify your machine.
We won't warrant the machine, if you use the remodeled blower or if you don't observe the proper usage written in the manual.

4. Symbols on the machine

For safe operation and maintenance, symbols are carved in relief on the machine. According to these indications, please be careful not to make a mistake.
The port to refuel the "MIX GASOLINE"

Position: FUEL TANK CAP

The direction to close the choke
Position: ENGINE COVER

The direction to open the choke
Position: ENGINE COVER

⚠ 5. For safe operation

1. Read this manual carefully until you completely understand and follow all safety and operating instructions.
2. Keep this manual handy so that you may refer to it later whenever any questions arise. Also note, if you have any questions which cannot be answered herein, contact the dealer from whom you purchased the product.
3. Always be sure to include this manual when selling, lending, or otherwise transferring the ownership of this product.
4. Do not lend or rent your machine without the owner's manul.
5. Be sure that anyone using your unit understands the infomation contained in this manual.
6. Never let a child under 13 years old use the machine.

WORKING CONDITION

1. Refrain from operating the blower if you are tired, ill, or upset, or if you are under the influence of alcohol, drugs or medication.
2. To reduce the risk of hearing loss associated with sound level(s), hearing protection is required.

3. To reduce the risk of injury associated with thrown objects, always wear eye protection and foot protection. Eye protection should meet the requirements of ANSI Z87.1.
4. To reduce the risk of injury associated with the inhalation of dust, use a face filter mask in dusty conditions.

5. Wear rubber-soled shoes or shoes with some other form of anti-slip protection to help protect you against falling.
6. To reduce the risk of injury associated with objects being drawn into rotating parts, do not wear loose clothing, scarves, neck chains, unconfined long hair, and the like.

7. Prolonged use of a blower, exposing the operator to vibrations and cold may produce whitefinger disease (Raynaud's phenomenon), which symptoms are tingling and burning sensations followed by loss of color and numbness in the fingers. All factors which contribute to whitefinger disease are not known, but cold weather, smoking diseases or physical conditions as well as long periods of exposure to vibration are mentioned as factors. In order to reduce the risk of whitefinger disease, the following precautions are strongly recommended;

   a) Keep your body warm. Never use blower during rains.
   b) Wear thick anti-vibration gloves.
   c) Take more than 5 minutes of break in warm place frequently.
   d) Maintain a firm grip at all times, but do not squeeze the handles with constant, excessive pressures.
   e) If you feel discomfort, redness and swelling of your fingers or any other part of your body, see a doctor before getting worse.

8. The ignition system of your unit produces an electromagnetic field of a very low intensity. This field may interfere with some pacemakers. To reduce the risk of serious or fatal injury, persons with pacemaker should consult their physician and the pacemaker manufacturer before operating this tool.

WORKING CIRCUMSTANCE

1. To reduce the risk of injury associated with exhaust fume inhalation, do not operate in unventilated area. The exhaust gases contain harmful carbon monoxide.
2. Avoid using the blower where stable footing and balance are not assured.

AVOID NOISE PROBLEM

NOTE

Check and follow the local regulations as to sound level and hours of operations for blower.

⚠ 5. For safe operation

1. Operate power equipment 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.
2. To reduce sound levels, limit the number of pieces of equipment used at any one time.
3. Operate power blowers at the lowest possible throttle speed to do the job.
4. Check your equipment before operation, especially the muffler, air intakes and air filters.

WORKING PLAN

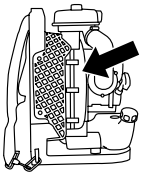
- When planning your work schedule, allow plenty of time to rest. Limit the amount of time over which the product is to be used continuously to somewhere around 30 ~ 40 minutes per session, and take 10 ~ 20 minutes of rest between work sessions. Also try to keep the total amount of work performed in a single day under 2 hours or less.

FUEL

⚠ WARNING

To reduce the risk of fire and burn injury:

a) Handle fuel with care. It is highly flammable.
b) Do not smoke while handing fuel.
c) Do not refuel a hot engine.
d) Do not refuel a running engine.
e) Avoid spilling fuel or oil. Always wipe unit dry before using.
f) Move at least 10 ft. (3 meters) away from the fueling point before starting engine.
g) Always store gasoline in a container approved for flammable liquids.
h) Make sure the unit is properly assembled and in good operating condition.



BEFORE STARTING THE ENGINE

- Each time before starting the engine, inspect the entire unit to see if every part is in good order and is securely tightened in place. If any damage is found in the fuel line, the exhaust line, or the ignition wiring, do not use the blower until it has been repaired.

❗ IMPORTANT

- Before starting operation, always make sure to check if any obstacles are left inside the volute case and net. The obstacles may cause damage on fan and volute case and serious injury.

⚠ WARNING

- Check to see if the shock-absorbing rubber mount has become cracked or otherwise damaged. Note that failing to replace this rubber mount when it has become cracked or damaged may cause the engine to come loose from its frame during use, thus resulting in possible serious bodily injury.
- If cracked, be sure to replace without delay.

⚠ WARNING

- To reduce the risk of injury associated with contacting rotating parts, stop the engine before installing or removing attachments. Do not operate without net in place. Always disconnect the spark plug before performing maintenance or accessing movable parts.

USING THE PRODUCT

1. Check the work area that the blower will be used in and remove or cover all valuables that may be damaged by the air blast or thrown debris.
2. To reduce the risk of injury associated with thrown objects.

a) Watch out for children, pets, open windows or freshly washed cars, and blow debris safely away.
b) Use the full blower nozzle extension so the air stream can work close to the ground.
c) Do not allow bystanders in work area.

⚠ 5. For safe operation

d) Do not point the blower nozzle in the direction of people or pets.
e) Always check to be sure that no debris has been blown onto someone else's property.
f) Pay attention to the direction of the wind, do not work against the wind.

3. To minimize blowing time.

a) Use rakes and brooms to loosen debris before blowing.
b) In dusty conditions, slightly dampen surfaces or use mister attachment when water is available.
c) Conserve water by using power blowers instead of hoses for many lawn and garden applications, including areas such as gutters, screens, patios, grills, porches and gardens.

4. Never to touch the spark plug or plug cord while the engine is in operation. Doing so may result in being subjected to an electrical shock.
5. Never to touch the muffler, spark plug, or other metallic parts of the engine while the engine is in operation or immediately after shutting down the engine. These metallic parts reach high temperatures during operation and doing so could result in serious burns.
6. After using blowers and other equipment, CLEAN UP! Dispose of debris in trash receptacles.

MAINTENANCE

1. In order to maintain your product in proper working order, perform the maintenance and checking operations described in the manual at regular intervals.
2. Always be sure to turn off the engine and disconnect the spark plug before performing any maintenance or checking procedures.

⚠ WARNING

The metallic parts reach high temperatures immediately after stopping the engine.

3. Examine the blower at intervals for loose fasteners and rusted or damaged parts. Use special care around the fuel line, the muffler, and the ignition wiring.
4. All engine service except for those described in this manual should be performed by competent service personnel. Improper service to the blower fan and muffler could cause a hazardous failure.
5. When replacing the any other part, or any lubricant, always be sure to use only KOMATSU ZENOAH products or products which have been certified by KOMATSU ZENOAH for use with the KOMATSU ZENOAH product.
6. In the event that any part must be replaced or any maintenance or repair work not described in this manual must be performed, please contact a representative from the store nearest KOMATSU ZENOAH authorized servicing dealer for assistance.
7. Do not use any accessory or attachment other than those bearing the KOMATSU ZENOAH mark and recommended for the unit.
8. Under no circumstances should you ever take apart the product or alter it in any way. Doing so might result in the product becoming damaged during operation or the product becoming unable to operate properly.

TRANSPORTATION

- Drain the fuel from the fuel tank before transporting or storing the blower.

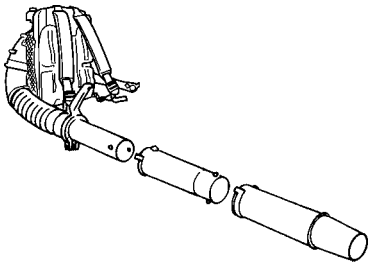
STORAGE

- When storing the blower, choose a space indoors free from moisture and out of the reach of children.

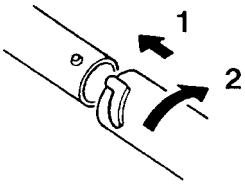
6. Set up

BLOWER TUBES

1. Connect the blower and swivel joint with flexible hose. Clamp both ends of the flexible hose securely with the hardware supplied with the unit.



2. Align the protrusion and the groove provided on the tube ends and twist the tube until connection is locked up.

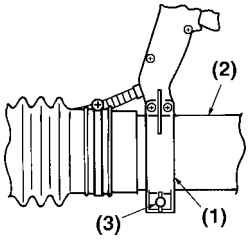


NOTE

A light lubricant may be used to ease assembly of flexible pipe to blower elbow.

THROTTLE LEVER

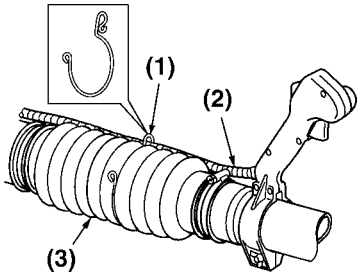
- Set up the clamp to the swivel and tighten the screw on the clamp.



(1) Clamp
(2) Swivel
(3) Screw

THROTTLE CABLE

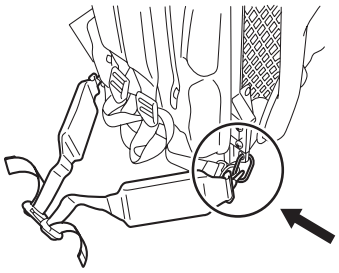
- Use the clamp to fasten the colgate tube containing the throttle cable and the power cable to the hose.



(1) Clamp
(2) Cable
(3) Hose

WAIST BELT

- The waist belt is attached to the rings on the left and right sides of the frame.



- Be sure to always tighten the buckle in front of your body.

WARNING

- If you are not using a waist belt, be sure to remove it from the unit and store it.
- There is a risk that the belt will be caught, toppling the unit.
- There is a danger that the belt will be sucked into the fan.

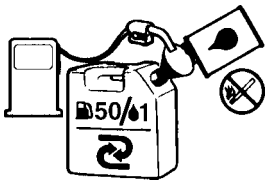
7. Fuel

■ FUEL

⚠ WARNING

- **Gasoline is very flammable. Avoid smoking or bringing any flame or sparks near fuel. Make sure to stop the engine and allow it cool before refueling the unit. Select outdoor bare ground for fueling and move at least 3 m (10 ft) away from the fueling point before starting the engine.**

- The Komatsu Zenoah engines are lubricated by oil specially formulated for air-cooled 2-cycle gasoline engine use. If Komatsu Zenoah oil is not available, use an anti-oxidant added quality oil expressly labeled for air-cooled 2-cycle engine use (JASO FC GRADE OIL or ISO EGC GRADE).
- Do not use BIA or TCW (2-stroke water-cooling type) mixed oil.



■ RECOMMENDED MIXING RATIO
GASOLINE 50 : OIL 1

- **Exhaust emission are controlled by the fundamental engine parameters and components (eq., carburation, ignition timing and port timing) without addition of any major hardware or the introduction of an inert material during combustion.**
- These engines are certified to operate on unleaded gasoline.
- Make sure to use gasoline with a minimum octane number of 89RON (USA/Canada: 87AL).
- If you use a gasoline of a lower octane value than prescribed, there is a danger that the engine temperature may rise and an engine problem such as piston seizing may consequently occur.
- Unleaded gasoline is recommended to reduce the contamination of the air for the sake of your health and the environment.
- Poor quality gasolines or oils may damage sealing rings, fuel lines or fuel tank of the engine.

■ HOW TO MIX FUEL

⚠ WARNING

- Pay attention to agitation.

1. Measure out the quantities of gasoline and oil to be mixed.
2. Put some of the gasoline into a clean, approved fuel container.
3. Pour in all of the oil and agitate well.
4. Pour in the rest of gasoline and agitate again for at least one minute. As some oils may be difficult to agitate depending on oil ingredients, sufficient agitation is necessary for the engine to last long. Be careful that, if the agitation is insufficient, there is an increased danger of early piston seizing due to abnormally lean mixture.
5. Put a clear indication on the outside of the container to avoid mixing up with gasoline or other containers.
6. Indicate the contents on outside of container for easy identification.

■ FUELING THE UNIT

1. Untwist and remove the fuel cap. Rest the cap on a dustless place.
2. Put fuel into the fuel tank to 80% of the full capacity.
3. Fasten the fuel cap securely and wipe up any fuel spillage around the unit.

⚠ WARNING

1. Select bare ground for fueling.
2. Move at least 10 feet (3 meters) away from the fueling point before starting the engine.
3. Stop the engine before refueling the unit. At that time, be sure to sufficiently agitate the mixed gasoline in the container.

■ FOR YOUR ENGINE LIFE, AVOID:

1. FUEL WITH NO OIL (RAW GASOLINE) – It will cause severe damage to the internal engine parts very quickly.
2. GASOHOL – It can cause deterioration of rubber and/or plastic parts and disruption of engine lubrication.
3. OIL FOR 4-CYCLE ENGINE USE – It can cause spark plug fouling, exhaust port blocking, or piston ring sticking.
4. **Mixed fuels which have been left unused for a period of one month or more** may clog the carburetor and result in the engine failing to operate properly.
5. In the case of storing the product for a long period of time, clean the fuel tank after rendering it empty. Next, activate the engine and empty the carburetor of the composite fuel.
6. In the case of scrapping the used mixed oil container, scrap it only at an authorized repository site.

NOTE

- As for details of quality assurance, read the description in the section Limited Warranty carefully. Moreover, normal wear and change in product with no functional influence are not covered by the warranty. Also, be careful that, if the usage in the instruction manual is not observed as to the mixed gasoline, etc. described therein, it may not be covered by the warranty.

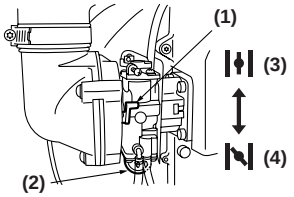
8. Operation

STARTING ENGINE

IMPORTANT

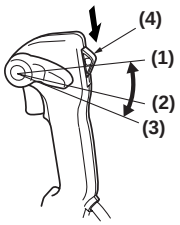
- Avoid operating the blower with the flexible tube and swivel joint disconnected. That will reduce the cooling air and the engine could be damaged by overheating.

1. Push the primer bulb until fuel flows out in the clear tube.
2. When the engine is cool, close the choke.



(1)Choke Lever
(2)Primer Bulb
(3)OPEN
(4)CLOSE

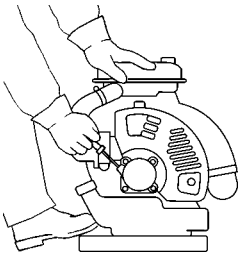
3. Set the ignition switch to the start position.



(1)Full Throttle
(2)About 1/3 Open
(3)Idling
(4)Ignition Switch

4. Set the throttle lever in 1/3 open position.

5. To start, hold the top of the blower firmly with your left hand. Pull the starter knob slowly until you feel it engage and then give it a vigorous strong pull.



IMPORTANT

- Avoid pulling the starter rope out to its full extent and allowing the starter rope to snap back. This will prevent premature damage to the starter.
- Do not let a person stand near the blower or the exhaust port.

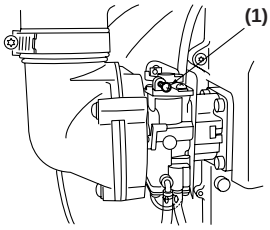
6. Once the engine is running, gradually open the choke if it was set closed, and let the engine run at idle speed for a minute to warm it up.

NOTE

When the engine fails to start after several attempts due to overchoking, open the choke and repeat pulling the rope.

ADJUSTING IDLE SPEED

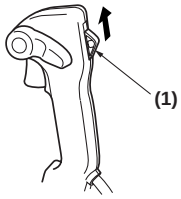
- The idling speed is set for 2000 rpm at the factory. If it is necessary to adjust the idle speed, use the adjustment screw on the top side of carburetor.



(1)Idling
Adjustment Screw

STOPPING ENGINE

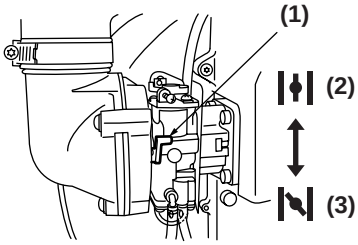
- Move the throttle lever to the idling position and set the ignition switch to the stop position.



(1)Ignition Switch

NOTE

If the engine won't stop when setting the ignition switch to the stop position, close the choke lever and stop the engine.
In this case, please repair the machine at your nealest servicing dealer.



(1)Choke Lever
(2)OPEN
(3)CLOSE

9. Maintenance

Maintenance, replacement, or repair of the emission control device and systems may be performed by any non-road engine repair establishment or individual.

System / Compronent		Procedure	Daily or Before use	Every 25 hours after	Every 50 hours after	Every 100 hours after
Air Filter	Prefilter	Inspect / Clean	✔			
Air Filter	Paper Filter	Inspect / Replace			✔	
Fuel Leaks		Inspect / Replace	✔			
Fuel Filter		Inspect / Replace	✔	✔		
Fuel Line		Inspect / Clean	✔			
Spark Plug		Inspect / Clean		✔		
Muffler		Inspect / Clean	✔			
Muffler Spark Arrester		Inspect / Clean			✔	
Cooling Systrem		Inspect / Clean	✔			
Screws / Nuts / Bolts		Tighten	✔			
Cylinder Exhaust Port		Inspect / Clean				✔

⚠ WARNING

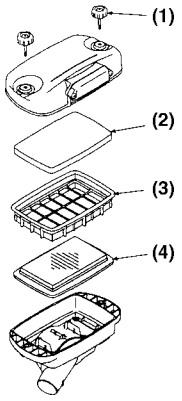
Make sure that the engine has stopped and is cool before performing any service to the blower. Contact with rotating blower fan or hot muffler may result in a personal injury.

AIR CLEANER

- Never operate the blower without an air filter or with a deformed or broken filter element.
- Check the air cleaner before use.
  A clogged air filter may increase fuel consumption while cutting down the engine power. Never operate the blower without the air filter or with a deformed filter element because unfiltered dusty air will quickly ruin the engine.

CLEANING AIR FILTER:

1. Unscrew 2 knob bolts and remove the air cleaner cover. Then remove a prefilter mounted inside the air cleaner cover.



(1) Knob Bolt
(2) Prefilter
(3) Inner Case
(4) Paper Filter

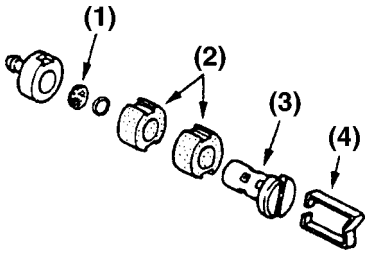
2. Wash the prefilter in fresh, non flammable cleaning solution (ex. warm soapy water) and then dry. (Clean the air filter once in a week.)
3. Exchange the paper filter element with new one in case it has been contaminated.

⚠ WARNING

- This prefilter is dry type.
- Never wash the prefilter in oleaginous cleaning solution.

FUEL FILTER

- A clogged fuel filter may cause poor acceleration of the engine. Check periodically to see if the filter is clogged with dirt. The filter can be taken out of the fueling port using a small wire hook. Disconnect the filter assembly from the fuel pipe and unhook the retainer to disassemble it. Clean the components with gasoline.

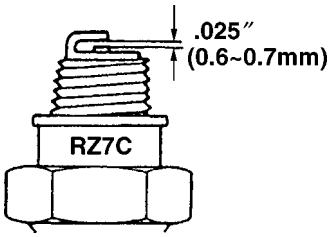


(1) Screen (2) Element
(3) Holder (4) Retainer

9. Maintenance

SPARK PLUG

- The spark plug may gather carbon deposits on its firing end with reasonable use. Remove and inspect the spark plug every 25 hours and clean the electrodes as necessary with a wire brush. The spark gap should be adjusted to .025 in (0.6~0.7mm).



- Plug manufacturers recommend replacing the plug twice a year to avoid unexpected plug failure in a job. REPLACEMENT PLUG IS A CHAMPION RZ7C OR NGK CMR7H.

IMPORTANT

- Note that using any spark plugs other than those designated may result in the engine failing to operate properly or in the engine becoming overheated and damaged.
- To install the spark plug, first turn the plug until it is finger tight, then tighten it a quarter turn more with a socket wrench.

MUFFLER

WARNING

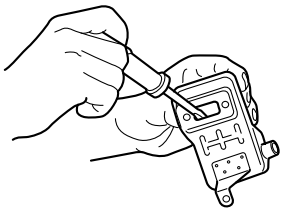
- Inspect periodically, the muffler for loose fasteners, any damage or corrosion. If any sign of exhaust leakage is found, do not use the blower and have it repaired immediately.
- Note that failing to do so may result in the engine catching on fire.

IMPORTANT

- Before starting operation, always make sure to check if the muffler is properly held by three bolts to the cylinder. (Fastening Torque : 8~12 N·m)
- Even if one bolt out of three bolts is loose, the muffler may get loose during operation which may result in engine catching on fire.

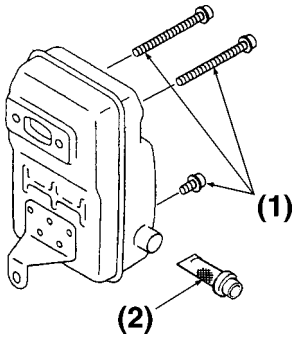
PROCEDURES TO BE PERFORMED AFTER EVERY 100 HOURS OF USE

1. Remove the muffler, insert a screwdriver into the vent, and wipe away any carbon buildup. Wipe away any carbon buildup on the muffler exhaust vent and cylinder exhaust port at the same time.
2. Tighten all screws, bolts, and fittings.



SPARK ARRESTER

- The muffler is equipped with a spark arrester to prevent red hot carbon from flying out of the exhaust outlet. Periodically inspect and clean as necessary with a wire brush. In the State of California it is required by law (Section 4442 of the California Pulic Resources Code) to equip a spark arrester when a gas powered tool is used in any forest covered, bush covered, or grass covered unimproved land.



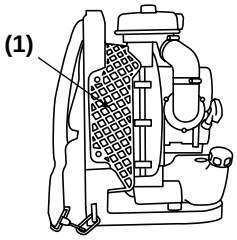
(1)Three Bolts
(2)Spark Arrester

9. Maintenance

AIR INLET NET

IMPORTANT

- Blowing air is taken in from the air inlet net. When air flow has dropped down during operation, stop the engine and inspect the air inlet net for blocking by obstacles.
- Note that failure to remove any such obstacles may result in the engine becoming overheated and damaged.



(1)Net

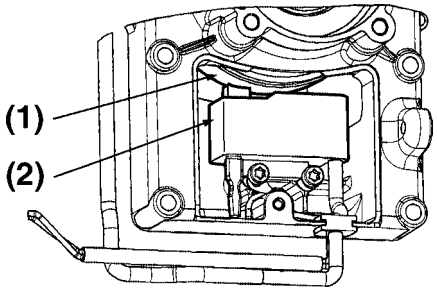
WARNING

Never use the blower without the net of the blower. Before each use, check that the net is attached in place and is free from any damage.

IGNITION COIL AIR GAP INSPECTION

- If the gap is out of standard or when installing the coil or rotor, adjust the air gap between the ignition coil and the iron core of the rotor.

Air Gap:
0.40mm (0.35 ~ 0.45mm)
0.016" (0.014 ~ 0.017")



(1) Rotor
(2) Ignition coil

10. Storage

BEFORE STORING THE BLOWER:

1. Drain a fuel tank and push the primer bulb until it becomes empty of fuel.
2. Remove the spark plug and drop a spoonful of 2-cycle oil into the cylider. Crank the engine several times and install the spark plug.
3. Store unit in a dry, dust free place, out of the reach of children.

11. Troubleshooting guide

Case 1. Starting failure

CHECK		PROBABLE CAUSES		ACTION
fuel tank	→	incorrect fuel	→	drain it and use correct fuel
fuel filter	→	fuel filter is clogged	→	clean
carburetor adjustment screw	→	out of normal range	→	adjust to normal range
sparking (no spark)	→	spark plug is fouled/wet	→	clean/dry
	→	plug gap is incorrect	→	correct (GAP: 0.6 ~ 0.7 mm)
spark plug	→	disconnected	→	retighten

Case 2. Engine starts but does not keep running/hard re-starting

CHECK		PROBABLE CAUSES		ACTION
fuel tank	→	incorrect fuel or staled fuel	→	drain it and use correct fuel
carburetor adjustment screw	→	out of normal range	→	adjust to normal range
muffler, cylinder (exhaust port)	→	carbon is built-up	→	wipe away
air cleaner	→	clogged with dust	→	wash
cylinder fin, fan cover	→	clogged with dust	→	clean

When your unit seems to need further service, please consult with our KOMATSU ZENOAH® service shop in your area.

Limited warranty

Should any failure occur on the product under normal operating conditions within the applicable warranty period, the failed part will be replaced or repaired free of charge by a KOMATSU ZENOAH® authorized dealer.

WARRANTY PERIOD: 1 year (6 months if used professionally, and 30 days if used for rental purpose) from the date of initial purchase.

THE PURCHASER SHALL BEAR COSTS OF TRANSPORTING THE UNIT TO AND FROM THE KOMATSU ZENOAH DEALER.

THE PURCHASER SHALL NOT BE CHARGED FOR DIAGNOSTIC LABOR WHICH LEADS TO THE DETERMINATION THAT A WARRANTED PART IS DEFECTIVE, IF THE DIAGNOSTIC WORK IS PERFORMED AT THE KOMATSU ZENOAH DEALER.

THE PURCHASER OR OWNER IS RESPONSIBLE FOR THE PERFORMANCE OF THE REQUIRED MAINTENANCE AS DEFINED BY THE MANUFACTURER IN THE OWNER/OPERATOR MANUAL.

ANY WARRANTED PART WHICH IS NOT SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE, OR WHICH IS SCHEDULED ONLY FOR REGULAR INSPECTION TO THE EFFECT OF REPAIR OR “REPLACE AS NECESSARY” SHALL BE WARRANTED FOR THE WARRANTY PERIOD. ANY WARRANTED PART WHICH IS SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE SHALL BE WARRANTED FOR THE PERIOD OF TIME UP TO THE FIRST SCHEDULED REPLACEMNET POINT FOR THE PART.

ANY REPLACEMENT PART THAT IS EQUIVALENT IN PERFORMANCE AND DULABILITY MAY BE USED IN NON-WARRANTY MAINTENANCE OR REPAIRS, AND SHALL NOT REDUCE THE WARRANTY OBLIGATION OF THE COMPANY.

THE COMPANY IS LIABLE FOR DAMAGES TO OTHER ENGINE COMPONENTS CAUSED BY THE FAIRURE OF A WARRANTED PARTS STILL UNDER WARRANTY.

THE WARRANTY DOES NOT APPLY TO THOSE UNITS WHICH HAVE BEEN DAMAGED BY NEGLIGENCE OF INSTRUCTION LISTED IN THE OWNER/OPERATOR MANUAL FOR PROPER USE AND MAINTENANCE OF THE UNITS ACCIDENT MISHANDLING, ALTERATION, ABUSE, IMPROPER LUBULICATION, USE OF ANY PARTS OR ACCESSARIES OTHER THAN THOSE SPECIFIED BY THE COMPANY, OR OTHER CAUSES BEYOND THE CONPANY’S CONTROL.

THIS WARRANTY DOES NOT COVER THOSE PARTS REPLACED BY NORMAL WEAR OR HARMLESS CHANGES IN THEIR APPEARANCE.

THERE ARE NO OTHER EXPRESS WARRANTIES.

IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE **ARE LIMITED** TO TWO (2) YEARS OF HOME USE [ONE (1) YEAR FOR ANY OTHER USE] FROM THE ORIGINAL DELIVERY DATE.

LIABILITIES FOR INCIDENTAL OR CONSEQUENTIAL DAMAGE UNDER ANY AND ALL WARRANTIES ARE EXCLUDED.

IF YOU NEED TO OBTAIN MORE INFORMATION, PLEASE CALL YOUR NEAREST SERVICE CENTER, OR CHECK PLEASE KOMATSU ZENOAH WEB SITE http://www.zenoah.net

Gardening Tools Direct - Leaders in Garden Machinery

Blower Vacs	Blower Vacs	Brushcutters	Brush cutters	Chainsaws
Chain saws	Chain saws	Cultivators	Cylinder Lawn Mowers	Cylinder Mowers
Echo Chainsaws	Echo Chainsaws	Echo Strimmers	Electric Chainsaws	Fertiliser Spreaders
Garden Blowers	Garden Blowers	Garden Rollers	Garden Shredders	Garden Tractors
Garden Vacuums	Garden Vacuums	Mowers	Hedge Cutters	Hedgecutters
Hover Mowers	Hover Mowers	Husqvarna Chainsaws	Kawasaki Brush Cutters	Kawasaki Strimmers
Lawn Mowers	Lawn Mowers	Lawn Scarifiers	Lawn Tractors	Leaf Blowers
Leaf Vacuums	Leaf Vacuums	Petrol Chainsaws	Petrol Hedge Cutters	Ride on Lawn Mowers
Ride on Mowers	Ride on Mowers	Rotary Mowers	Rotavators	Ryobi Strimmers
Scarifiers	Scarifiers	Strimmers	Westwood Lawn Tractors	Westwood Ride on Mowers
Westwood Tractors	Westwood Tractors	Petrol Strimmers	Kawasaki Petrol Strimmers	Echo Petrol Strimmers
Petrol Lawn Mowers	Petrol Lawn Mowers	Petrol Garden Mowers	Rotary Lawn Mowers	Hayter Garden Mowers
Husqvarna Petrol Chainsaws	Husqvarna Petrol Chainsaws	Echo Chain Saws	Petrol Chain Saws	Kawasaki Hedge Cutters
Kawasaki Hedgecutters	Kawasaki Hedgecutters	Garden Hedge Cutters	Electric Hedge Cutters	Allen Hover Mowers
Echo Petrol Chainsaws	Echo Petrol Chainsaws	Electric Hedgecutters	Rally Ride On Mower	Rally Garden Tractors
Leaf Hoovers	Leaf Hoovers	Bosch Hedge Cutters	Bosch Hedge Trimmers	Hedge Trimmers
Petrol Hedge Trimmers	Petrol Hedge Trimmers	Garden Hedge Trimmers	Garden Roller	Lawn Roller
Rollers	Rollers	Fertilizer Spreaders	Fertilizer Sprayers	Fertiliser Sprayers
Garden Sprayer	Garden Sprayer	Garden Rotavators	Garden Cultivators	Electric Garden Shredders
Outdoor Shredders	Outdoor Shredders	Garden Shredders UK	Petrol Shredders	Lawn Mowers UK
Petrol Rotary Lawn Mowers	Petrol Rotary Lawn Mowers	Petrol Cyliner Lawn Mowers	Atco Lawn Mowers	Sit on Lawn Mowers
Garden Strimmers	Garden Strimmers	Garden Chainsaws	Backpack Sprayers	Knapsack Sprayers
Pesticide Sprayers	Pesticide Sprayers	Midgeater Plus	Home Brush Cutters	Home Brushcutters
Snow Sledges	Snow Sledges	Trampolines	Go Karts	Gritters
Petrol Brush Cutters	Petrol Brush Cutters	Ryobi Brush Cutters	Petrol Garden Strimmers	Hayter Ranger 48 Autodrive
Lawn Sweepers	Lawn Sweepers	Leaf Collectors	Petrol Brush Cutters	Petrol Rotary Lawn Mowers
Garden Vacs	Garden Vacs	Gardena Hedge Cutters	Husqvarna Garden Tractors	Kawasaki Brushcutters
Backpack Blowers	Backpack Blowers	Blower Vac Range	Discounted Brushcutters	Echo Petrol Chainsaws

Three Great Lawn Mowers	Three Great Lawn Mowers	Discounted Lawn Mowers	Brush Cutter Selection	Atco Lawn Mowers
Kawasaki Brushcutters	Kawasaki Brushcutters	Discounted Brushcutters	Grit Spreaders	Salt Spreaders
Husqvarna Rider Tractors	Husqvarna Rider Tractors	Sledges		