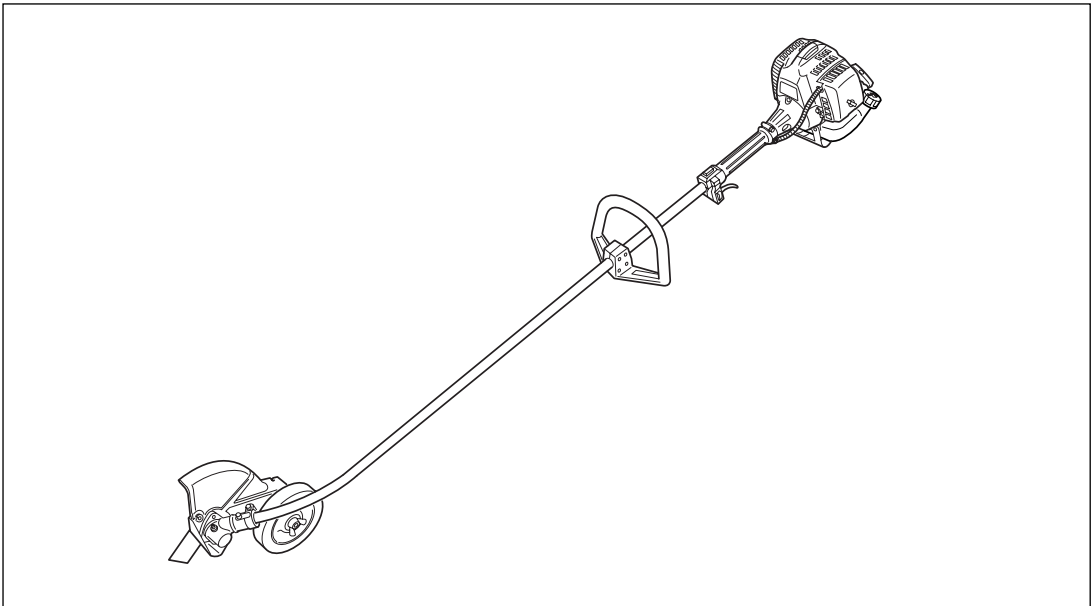




# OWNER/OPERATOR MANUAL

## STICK EDGERS

**HE225F**  
**HEZ2500F**



### WARNING



The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



### WARNING



Before using our product, please read this manual carefully to understand the proper use of your unit.

APPLICABLE SERIAL NUMBERS :

DRIVE UNIT 200001 and up


ENGINE UNIT

(HE225F) 50100000 and up  
(HEZ2500F) 50100000 and up





## **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**



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



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

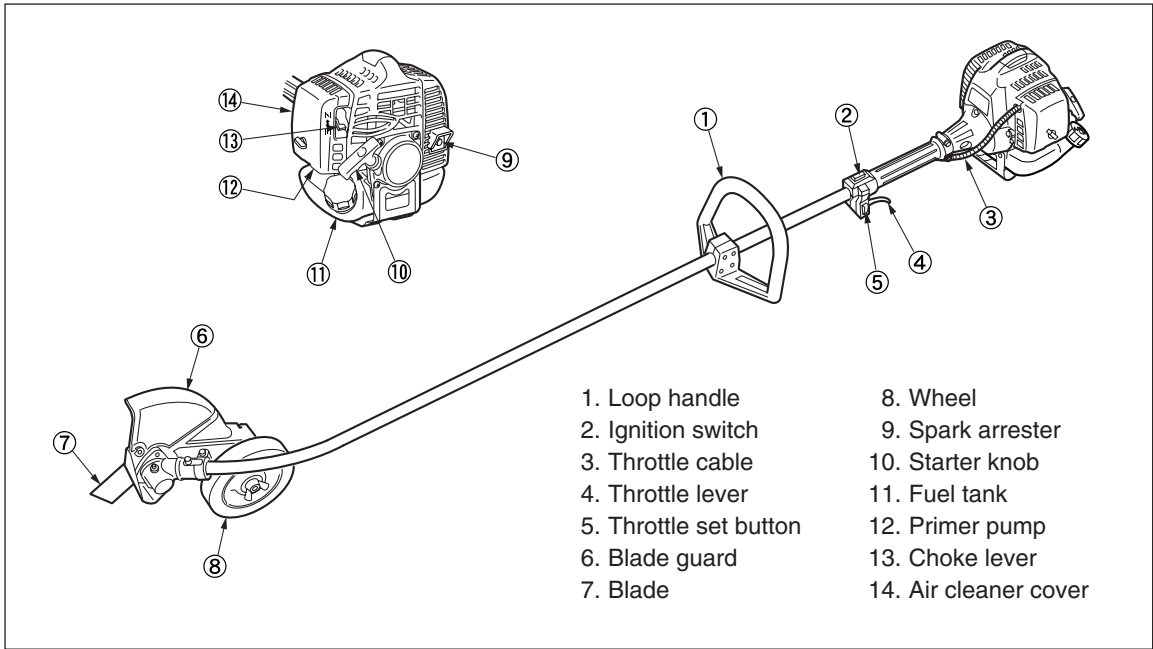


This mark indicates hints or directions useful in the use of the product.

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# 1. Parts location



# 2. Specifications

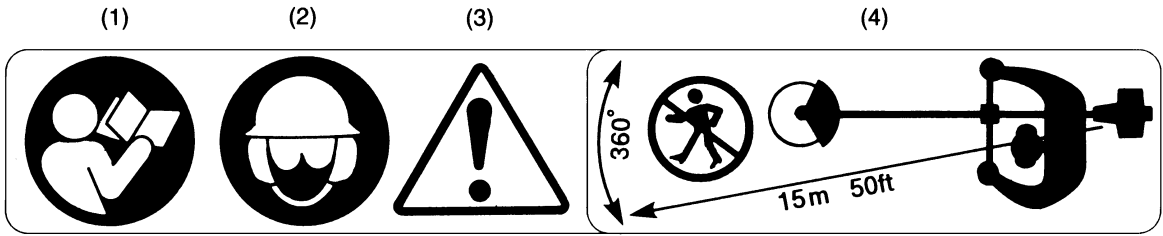
## ■ HE225F/HE2500F

Overall size(LxWxH) .....	68.1(1730)x12.3(313)x12.3(312) / 69.8(1773)x12.6(320)x12.3(312) in(mm)
Dry weight w/o acc. ....	13.1(5.94) / 14.1(6.39) lbs(kg)
Engine	Type ..... Air-cooled 2-stroke gasoline
	Model ..... Zenoah G24LS/Zenoah GZ25N
	Displacement ..... 1.4cu-in (22.5cm <sup>3</sup> )/1.6cu-in (25.4cm <sup>3</sup> )
	Max. output ..... 1.08Hp(0.8kW) at 8000min <sup>-1</sup> (rpm) / 1.2Hp(0.9kW)at 7500min <sup>-1</sup> (rpm)
	Idle speed ..... 2800min <sup>-1</sup> (rpm) / 3000min <sup>-1</sup> (rpm)
	Fuel ..... Mixture (Gasoline 50 : Oil 1)
	Carburetor ..... Walbro Diaphragm type
	Spark plug ..... Champion RCJ6Y/NGK CMR7A
Fuel tank capacity .....	20.3fl.oz (0.6 ℓ )/22.0fl.oz (0.65 ℓ )
Durability period .....	300 hrs
Transmission .....	Centrifugal clutch, Flexible driveshaft
Reduction ratio .....	1.25
Cutting head rotating direction .....	Clockwise(View against blade)
Blade length .....	7.87(in)/200(mm)
Use for .....	Lawn edging

Specifications are subject to change without notice.

### 3. Warning labels on the machine

---



- (1) Read owner's manual before operating this machine.
- (2) Wear head, eye and ear protection.
- (3) Warning/Attention
- (4) Keep all children, bystanders and helpers 15 meters away from the machine.

#### **⚠ IMPORTANT**

If warning label peel off or become 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).

#### **⚠ WARNING**

**Never modify your machine.**

**We won't warrant the machine, if you use the remodeled machine or 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 take a mistake.



(a) The port to refuel the "MIX GASOLINE"  
**Position:** FUEL TANK CAP



(b) The direction to close the choke  
**Position:** AIR CLEANER COVER



(c) The direction to open the choke  
**Position:** AIR CLEANER COVER

[ HE225F ]

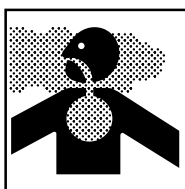
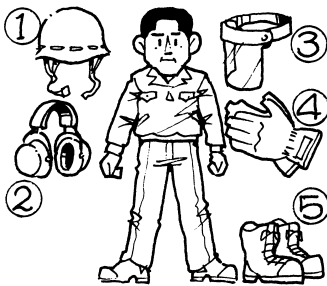


[ HEZ2500F ]





## 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. Never allow children or anyone unable to fully understand the directions given in the manual to use the machine.

### ■ WORKING CONDITION

1. When using the product, you should wear proper clothing and protective equipment.

#### (1) Helmet

#### (2) Ear protectors

#### (3) Protection goggles or face protector

#### (4) Thick work gloves

#### (5) Non-slip-sole work boots

2. And you should carry with you.

- (1) Tools and files
- (2) Properly reserved fuel
- (3) Spare blade
- (4) Things to notify your working area (rope, warning signs)
- (5) Whistle (for collaboration or emergency)
- (6) Hatchet or saw (for removal of obstacles)

3. Do not wear loose clothing, jewelry, short trousers, sandals, or go barefoot. Do not wear anything which might be caught by a moving part of the unit. Secure hair so it is above shoulder length.

### ■ WORKING CIRCUMSTANCE

1. Never start the engine inside a closed room or building. Exhaust gases contain dangerous carbon monoxide.
2. Never use the product,
  - a. when the ground is slippery or when you can't maintain a steady posture.

## 5. For safe operation



- b. At night, at times of heavy fog, or at any other times when your field of vision might be limited and it would be difficult to gain a clear view of the working area.
- c. During rain storms, during lightning storms, at times of strong or gale-force winds, or at any other times when weather conditions might make it unsafe to use the product.



### ■ WORKING PLAN

1. You should never use the product when under the influence of alcohol, when suffering from exhaustion or lack of sleep, when suffering from drowsiness as a result of having taken cold medicine or at any other time when a possibility exists that your judgment might be impaired or that you might not be able to operate the product properly and in a safe manner.
2. 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.



### WARNING

1. If you don't observe the working time, or working manner (See ■USING THE PRODUCT), Repetitive Stress Injury(RSI) could occur.  
If you feel discomfort, redness and swelling of your fingers or any other part of your body, see a doctor before getting worse.
2. To avoid noise complaints, in general, operate product between 8a.m. and 5p.m. on weekdays and 9a.m. to 5p.m. weekends.



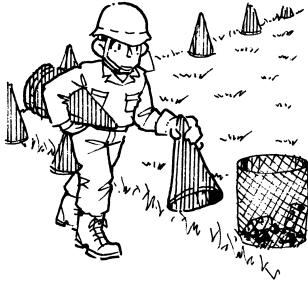
### NOTE

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





## 5. For safe operation

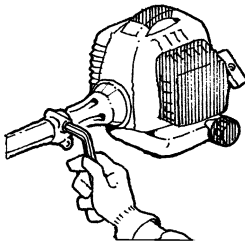


### ■ BEFORE STARTING THE ENGINE

1. The area within a perimeter of 50 feet (15m) of the person using the product should be considered a hazardous area into which no one should enter. If necessary yellow warning rope, warning signs should be placed around the perimeter of the area. When work is to be performed simultaneously by two or more persons, care should also be taken to constantly look around or otherwise check for the presence and locations of other people working so as to maintain a distance between each person sufficient to ensure safety.
2. Check the condition of working area to avoid any accident by hitting hidden obstacles such as stumps, stones, cans, or broken grass.

### ! IMPORTANT

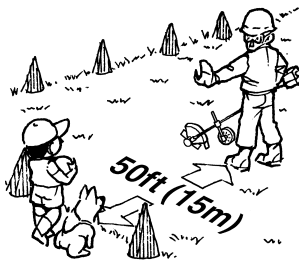
Remove any obstacle before beginning work.



3. Inspect the entire unit for loose fasteners and fuel leakage. Make sure that the cutting attachment is properly installed and securely fastened.

### ■ STARTING THE ENGINE

1. Keep bystanders and animals at least 50feet (15m) away from the operating point. If you are approached, immediately stop the engine.
2. The product is equipped with a centrifugal clutch mechanism, so the cutting attachment begins to rotate as soon as the engine is started by putting the throttle into the start position. When starting the engine, place the product onto the ground in a flat clear area and hold it firmly in place so as to ensure that neither the cutting part nor the throttle come into contact with any obstacle when the engine starts.



### ! WARNING

**Never place the throttle into the high speed position when starting the engine.**

3. After starting the engine, check to make sure that the cutting attachment stops rotating when



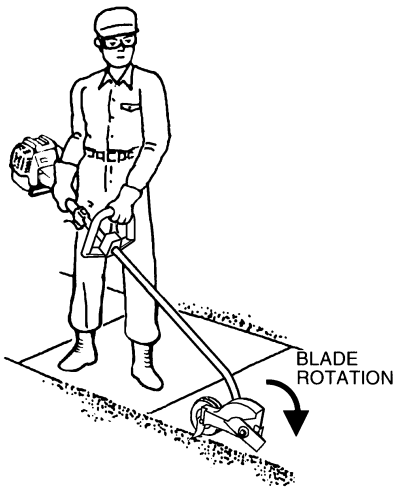
## 5. For safe operation

the throttle is moved fully back to its original position. If it continues to rotate even after the throttle has been moved fully back, turn off the engine and take the unit to your authorized Red Max servicing dealer for repair.

### ■ USING THE PRODUCT

#### ⚠ IMPORTANT

**Cut only materials recommended by the manufacturer. And use only for tasks explained in the manual.**



1. Grip the handles firmly with both hands using your whole hand. Place your feet slightly apart (slightly further apart than the width of your shoulders) so that your weight is distributed evenly across both legs, and always be sure to maintain a steady, even posture while working.
2. Keep cutting attachment below waist level.
3. Maintain the speed of the engine at the level required to perform cutting work, and never raise the speed of the engine above the level necessary.
4. If the unit start to shake or vibrate, turn off the engine and check the whole unit. Do not use it until the trouble has been properly corrected.
5. Keep all parts of your body away from rotating cutting attachment and hot surfaces.
6. Never 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. Doing so could result in serious burns or electrical shock.

#### • IF SOMEONE COMES

1. Guard against hazardous situations at all times. Warn adults to keep pets and children away from the area. Be careful if you are approached. Injury may result from flying debris.
2. If someone calls out or otherwise interrupts you while working, always be sure to turn off the engine before turning around.



## 5. For safe operation



### ■ 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 before performing any maintenance or checking procedures.

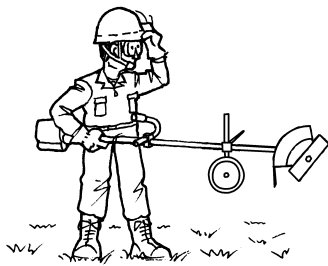
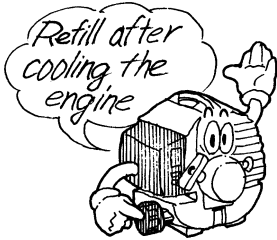
### WARNING

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

3. When replacing any part, or when replacing the oil or any lubricant, always be sure to **use only RedMax products or products which have been certified by RedMax for use with the RedMax product.**
4. 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 RedMax authorized servicing dealer for assistance.
5. Do not use any accessory or attachment other than those bearing the RedMax mark and recommended for the unit.
6. 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.



## 5. For safe operation



### ■ HANDLING FUEL

1. The engine of the RedMax product is designed to run on a mixed fuel which contains highly flammable gasoline. Never store cans of fuel or refill the tank of the unit in any place where there is a boiler, stove, wood fire, electrical sparks, welding sparks, or any other source of heat or fire which might ignite the fuel.
2. Never smoke while operating the unit or refilling its fuel tank.
3. When refilling the tank, always turn off the engine and allow it to cool down. Take a careful look around to make sure that there are no sparks or open flames anywhere nearby before refueling.
4. Wipe spilled fuel completely using a dry rag if any fuel spillage occurs during refueling.
5. After refueling, screw the fuel cap back tightly onto the fuel tank and then carry the unit to a spot 10 feet (3m) or more away from where it was refueled before turning on the engine.

### ■ TRANSPORTATION

1. When hand-carrying the product, cover over the cutting part, lift up the product and carry it paying attention to the blade.
2. Never transport the product over rough roads over long distances by vehicle without removing all fuel from the fuel tank. If doing so, fuel might leak from the tank during transport.

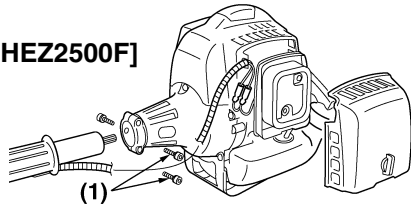
## 6. Set up

SE1

[HE225F]



[HEZ2500F]



### ■ MOUNTING ENGINE (SE1)

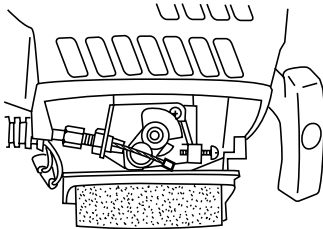
1. Push the driveshaft housing toward the clutch housing and rotate it by hand to check that the driveshaft is engaged with the gears.
2. Insert the driveshaft housing into the clutch housing until it bottoms, and align the positioning holes on the clutch housing and the shaft tube and install the screw. When difficult to engage, twist the engine slightly.
3. Fasten the clamp securely with two screws.

### ❗ IMPORTANT

Tighten the screws(1) gradually by turns.

**Tightning Torque: 44~70in-lbs (5~8N.m.)**

SE2



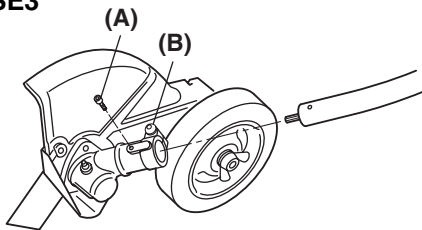
### ■ CONNECTING THROTTLE WIRE

1. Remove the air cleaner cover.
2. Connect the end of the throttle wire to the joint on the top of the carburetor. (SE2)

### ■ CONNECTING SWITCH WIRES

- Connect the switch wires between the engine and the main unit. Pair the wires of the same color.

SE3



### ■ MOUNTING OTHER PARTS

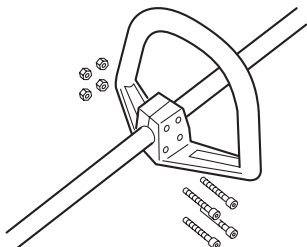
1. Insert the driveshaft into the clutch drum, then attach the gearbox to the shaft tube as aligning the positioning holes and fasten the screw(A). Fasten the clamp bolt(B) firmly. (SE3)

(A)Screw

(B)Clamp bolt

(B) Tightning Torque: 52~69in-lbs(6~8N.m.)

SE4



2. Install the handle to the shaft tube and clamp at a position best for your job. (SE4)

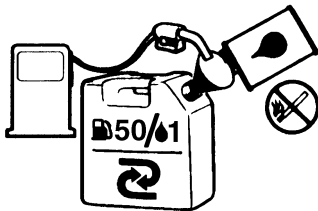
# 7. Fuel

## ⚠ 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 3m (10ft) away from the fueling point before starting the engine.



- The RedMax engines are lubricated by oil specially formulated for air-cooled 2-cycle gasoline engine use. If RedMax 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

### 50:1 MIXING CHART

GASOLINE gal.	1	2	3	4	5
2-CYCLE OIL fl.oz	2.6	5.2	7.8	10.4	13

GASOLINE liter	1	2	3	4	5
2-CYCLE OIL ml	20	40	60	80	100

- 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 89 RON (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

### ⚠ IMPORTANT

Pay attention to agitation.

- Measure out the quantities of gasoline and oil to be mixed.
- Put some of the gasoline into a clean, approved fuel container.
- Pour in all of the oil and agitate well.
- Pour In the rest of gasoline and agitate

## 7. Fuel

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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 10feet (3meters) 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.

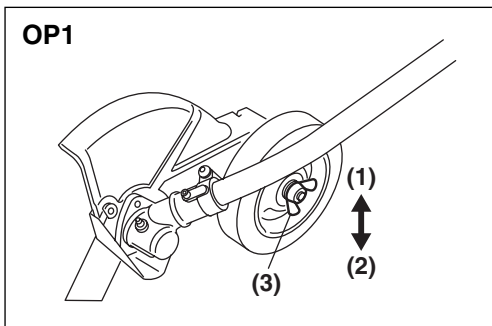
5. In the case of storing the product for a long period of time, clean the fuel tank after rendering it empty. Next, activate the engine and empty the carburetor of the composite fuel.
6. In the case of scrapping the used mixed oil container, scrap it only at an authorized repository site.

### NOTE

As lot 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

The RedMax stick edgers are designed for edging lawn in gardens, parks, roadsides and so on. Before starting the engine, take the operating position and adjust the handle position and the wheel height as necessary.



### ■ ADJUSTING WHEEL HEIGHT

1. Loosen the wing nut and change the wheel height to obtain desired cutting depth. (OP1)

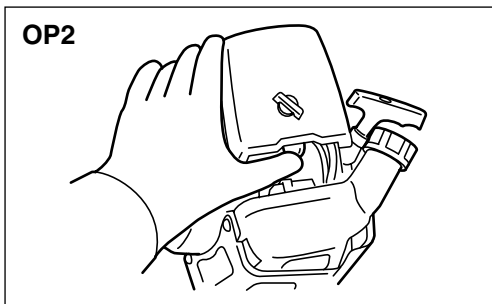
- (1) Deep cut
- (2) Shallow cut
- (3) Wing nut

2. After adjusting the height, tighten the wing nut securely.

**Tightening Torque: 51~68in-lbs (6~8N.m)**

### ▲ WARNING

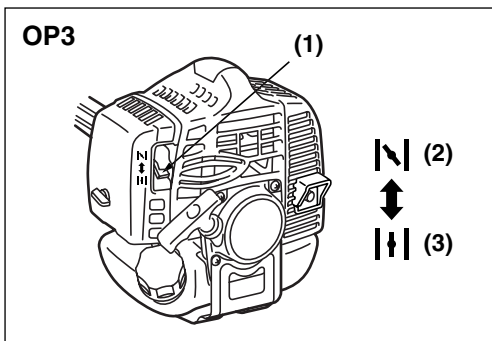
- Never adjust wheel height with the engine running.



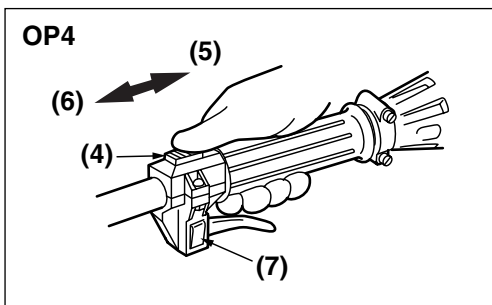
### ■ STARTING ENGINE

### ▲ WARNING

The cutting head will start rotating upon the engine starts.



1. Rest the unit on a flat, firm place. Keep the cutting head off the ground and clear of surrounding objects as it will start rotating upon starting of the engine.
2. Push the primer pump several times until overflowed fuel flows out in the clear tube. (OP2)
3. Move the choke lever to the closed position. (OP3)
4. Set the ignition switch to the “start” position. While pulling the throttle lever, push the set button, and release the throttle, then the throttle lever is in to the “start” position. (OP4)
5. While holding the unit firmly, pull out the starter rope quickly until engine fires. (OP5)



- (1) choke lever (2) close (3) open
- (4) ignition switch (5) start (6) stop
- (7) throttle set button



## 8. Operation



### ⚠ IMPORTANT

- Avoid pulling the rope to its end or returning it by releasing the knob. Such actions can cause starter failures.
6. Move the choke lever downward to open the choke. And restart engine. (OP3)
  7. Allow the engine to warm up for a several minutes before starting operation.

### 📖 NOTE

1. When restarting the engine immediately after stopping it, leave the choke open.
2. Overchoking can make the engine hard to start due to excess fuel. When the engine failed to start after several attempts, open the choke and repeat pulling the rope, or remove the spark plug and dry it.

### ■ STOPPING ENGINE (OP4)

1. Release the throttle lever and run the engine for a half minute.
2. Shift the ignition switch to the STOP position.

### ⚠ IMPORTANT

- Except for an emergency, avoid stopping the engine while pulling the throttle lever.

### ■ ADJUSTING THROTTLE CABLE

- The normal play is 1 or 2mm when measured at the carburetor side end. Readjust with the cable adjuster as required. (OP6)

#### (1) cable adjuster

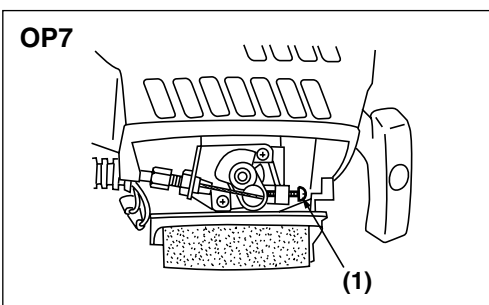
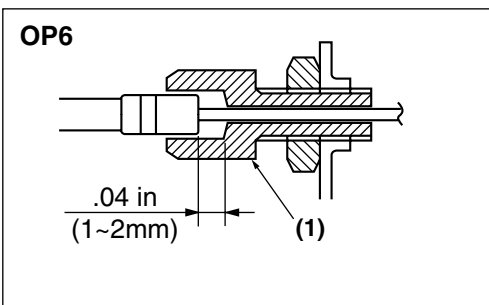
### ■ ADJUSTING IDLING SPEED (OP7)

1. When the engine tends stop frequently at idling mode, turn the adjusting screw clockwise.
2. When the cutting head keeps rotating after releasing the trigger, turn the adjusting screw counter-clockwise.

#### (1) idle adjusting screw

### 📖 NOTE

- Warm up the engine before adjusting the idling speed.

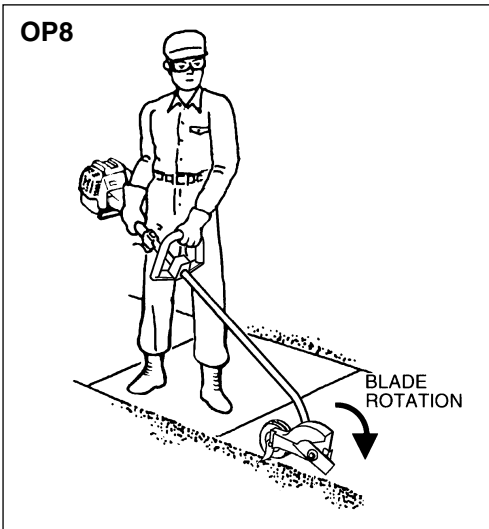


## 8. Operation

### ■ HOW TO USE

#### WARNING

- 1 Always wear eye protection such as safety goggles. Never lean over the rotating cutting head. Rocks or other debris could be thrown into eyes and face and cause serious personal injury.
- 2 Keep the blade guard and the mud guard attached in place at all times when the unit is operated.
- 3 Before starting a job, check the area and remove all obstacles and objects that could be thrown by the blade.
- 4 Do not adjust the wheel height or try to remove anything entangled to the blade with the engine running.



- 1 Before starting the engine, adjust the wheel height for desired cutting depth (See page 16).
- 2 Before starting a job, plan your direction of travel so that you can always hold the edger on your right side and can walk on a hard surface as much as possible.
- 3 When starting to edge, maintain the engine speed at the level required to perform edging work, and slowly have the blade cut into the edge groove.

#### NOTE

- Before edging, make sure the area is soft enough so the blade does not bog down.
- Do not move the edger into the work so fast that the engine or blade bogs down.
- Do not operate using starting throttle lock. It may cause unit uncontrolled, and clutch failure.
- Use care in directing discharge to avoid bystanders, vehicles, glass, and the like.
- When the blade guard is clogged or blade stuck, stop the engine and clean it.

## 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.

### WARNING

- Always be sure to stop the engine before inspecting the stick edger for problems or performing maintenance.
- Never alter the stick edger or take the engine apart.
- When replacing parts, always be sure to use only RedMax products or products which have been certified by RedMax for use with the RedMax stick edger.

### ■ BE SURE TO CHECK THE FOLLOWING BEFORE USING YOUR STICK EDGER

Item to be checked			Response
1	Edging mechanism	<ul style="list-style-type: none"> <li>• See if attachment is loose</li> <li>• Check if edges of blades are dull</li> </ul>	<ul style="list-style-type: none"> <li>• Tighten screws and bolts</li> <li>• Sharpen or replace blades</li> </ul>
2	Throttle	<ul style="list-style-type: none"> <li>• Stiff and difficult to move</li> </ul>	<ul style="list-style-type: none"> <li>• Repair or replace</li> </ul>
3	Throttle wire	<ul style="list-style-type: none"> <li>• Too loose, too tight</li> <li>• Stiff and difficult to move</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust</li> <li>• Repair or replace</li> </ul>
4	Engine attachment	<ul style="list-style-type: none"> <li>• See if fittings are loose</li> </ul>	<ul style="list-style-type: none"> <li>• Tighten fittings</li> </ul>
5	Fuel tank	<ul style="list-style-type: none"> <li>• See if attachment is loose</li> <li>• See if fuel pipe is damaged</li> <li>• See if cap packing is damaged</li> </ul>	<ul style="list-style-type: none"> <li>• Tighten screws and bolts</li> <li>• Replace</li> <li>• Replace</li> </ul>
6	Muffler	<ul style="list-style-type: none"> <li>• See if attachment is loose</li> </ul>	<ul style="list-style-type: none"> <li>• Tighten screws and bolts</li> </ul>
7	Cutting blade	<ul style="list-style-type: none"> <li>• See if damaged or worn shorter than usable length</li> </ul>	<ul style="list-style-type: none"> <li>• Replace</li> </ul>

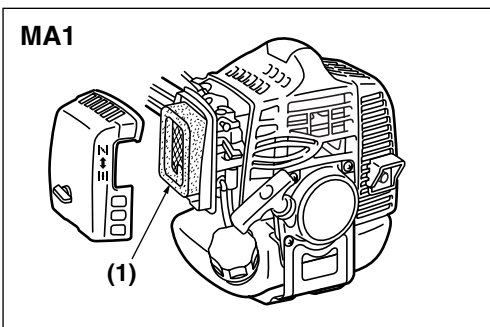
### ■ MAINTENANCE CHART

	system/component	procedure	before use	every 25 hours after	every 50 hours after	every 100 hours after	note
ENGINE	fuel leaks, fuel spillage	wipe out	✓				
	fuel tank, air filter, fuel filter	inspect/clean	✓	✓			replace, if necessary
	idle adjusting screw	see ■ADJUSTING IDLING SPEED (p.17)	✓				replace carburetor if necessary
	spark plug	clean and readjust plug gap			✓		GAP: .025in(0.6-0.7mm) replace, if necessary
	cylinder fins, intake air cooling vent	clean		✓			
	muffler, spark arrester, cylinder exhaust port	clean			✓		
SHAFT	throttle lever, ignition switch	check operation	✓				
	cutting parts	replace if something's wrong	✓				
	gear case	grease		✓			
	screws/nuts/bolts	tighten/replace	✓			✓	not adjusting screws
	drive shaft	grease			✓		
	cutting blade	inspect/replace	✓				replace, if necessary

## 9. Maintenance

### **⚠ WARNING**

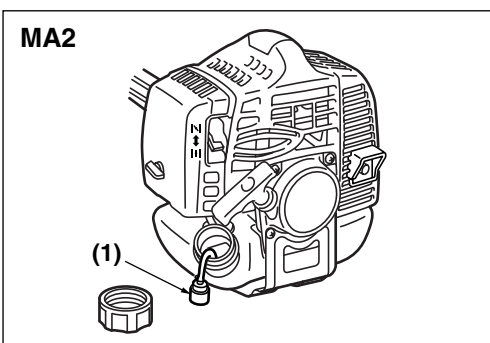
- Make sure that the engine has stopped and is cool before performing any service to the machine. Contact with moving cutting head or hot muffler may result in a personal injury.



#### ■ AIR FILTER

- The air filter, if clogged, will reduce the engine performance. Check and clean the filter element in warm, soapy water as required. Dry completely before installing. If the element is broken or shrunk, replace with a new one. (MA1)

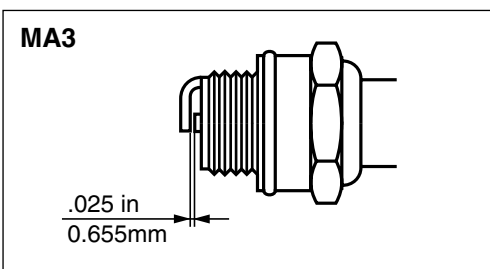
(1) air filter



#### ■ FUEL FILTER

- When the engine runs short of fuel supply, check the fuel cap and the fuel filter for blockage. (MA2)

(1) fuel filter



#### ■ SPARK PLUG

- Starting failure and mis-firing are often caused by a fouled spark plug. Clean the spark plug and check that the plug gap is in the correct range. For a replacement plug, use the correct type specified by RedMax. (MA3)

#### • REPLACEMENT PLUG:

**HE225F: Champion RCJ6Y**

**HEZ2500F: NGK CMR7A**

### **⚠ IMPORTANT**

- Note that using any spark plug 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.

**TIGHTENING TORQUE:** 87~104 in-lbs  
(9.8~11.8 N.m.)

# 9. Maintenance

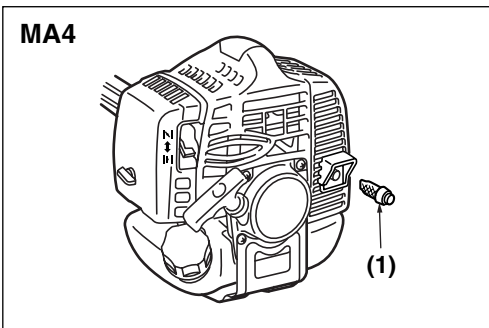
## ■ MUFFLER

### WARNING

- Inspect periodically, the muffler for loose fasteners, any damage or corrosion. If any sign of exhaust leakage is found, stop using the machine and have it repaired immediately.
- **Note that failing to do so may result in the engine catching on fire.**

## ■ SPARK ARRESTER

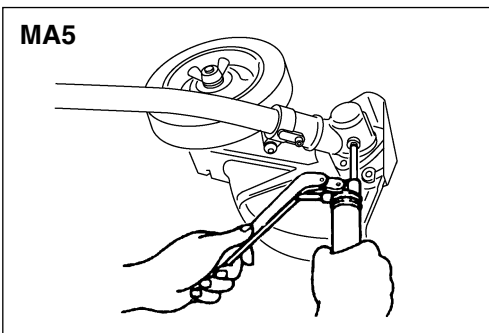
- The muffler is equipped with a spark arrester to prevent red hot carbon from flying out of the exhaust outlet. Periodically inspect and clean as necessary with a wire brush. In the State of California it is required by law (Section 4442 of the California Public Resources Code) to equip a spark arrester when a gas powered tool is used in any forest covered, brush covered, or grass covered unimproved land. (MA4)



### (1) spark arrester

## ■ GEAR CASE

- The reduction gears are lubricated by multipurpose, lithium-based grease in the gear case. At every 25 hours of use, supply the gear case with new grease. (MA5)
- Remove the cutter holders before installing new grease to arrange for old grease to exit. (MA7)

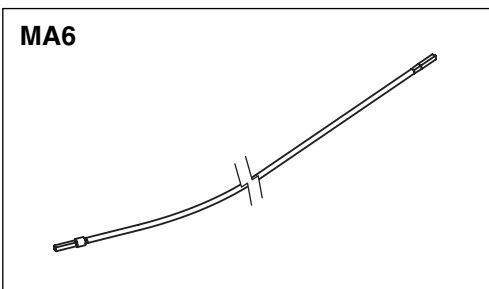


### NOTE

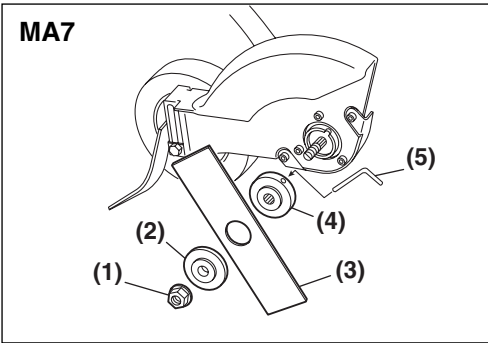
- When removing and installing the holder(A), use care not to allow any dirt and dust entering in to the gear case. (MA7)

## ■ DRIVE SHAFT (MA6)

- The drive shaft is lubricated by multipurpose lithium-based grease (NLGI No.2). Pull out the shaft from the pipe and supply new grease every 50 hours of use or more often depending on the job condition.



## 9. Maintenance



### ■ BLADE (MA7)

- Place the blade between holders (A) and (B) while locking the gear shaft by putting the bar, through the key holes on the holder(A) and the gearcase. Use the socket and the screwdriver to tighten the blade mounting bolt.

#### (1) Blade mounting nut (Left-handed)

Tightning Torque: 130~150in-lbs(15~20N.m.)

#### (2) Holder (B)

#### (3) Blade

#### (4) Holder (A)

#### (5) Bar

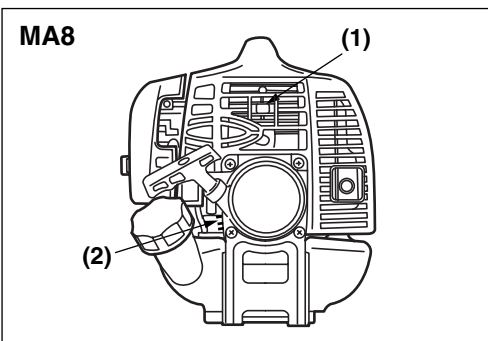
### ⓘ IMPORTANT

- Attention to the direction of the holder (B)

### ■ INTAKE AIR COOLING VENT

### ⚠ WARNING

- Never touch the cylinder, muffler, or spark plugs with your bare hands immediately after stopping the engine. The engine can become very hot when in operation, and doing so could result in severe burns.
- When checking the machine to make sure that it is okay before using it, check the area around the muffler and remove any wood chips or leaves which have attached themselves to the stick edger. Failing to do so could cause the muffler to become overheated, and that this in turn could cause the engine to catch on fire. Always make sure that the muffler is clean and free of wood chips, leaves, and other waste before use.
- Check the intake air cooling vent and the area around the cylinder cooling fins after every 25 hours of use for blockage, and remove any waste which has attached itself to the stick edger. Note that it is necessary to remove the engine cover shown in (MA8) in order to be able to view the upper part of the cylinder.

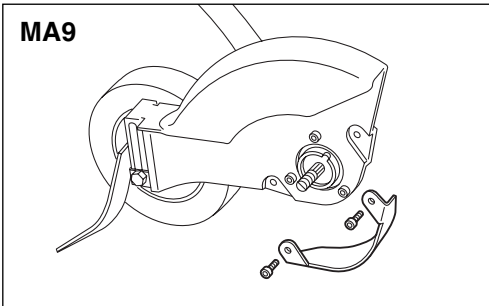


## 9. Maintenance

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### ❗ IMPORTANT

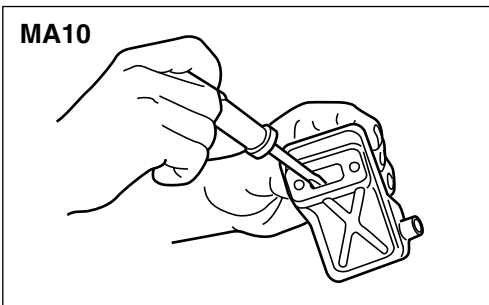
- If waste gets stuck and causes blockage around the intake air cooling vent or between the cylinder fins, it may cause the engine to overheat, and that in turn may cause mechanical failure on the part of the stick edger. (MA8)



- (1) cylinder
- (2) intake air cooling vent (back)

### ■ PROPECTOR

- When you replace protector, use new bolt (T3207-24130). (MA9)  
Tightning Torque: 35~52in-lbs(4.0~6.0N.m.)



### ■ 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. (MA10)
2. Tighten all screws, bolts, and fittings.
3. Check to see if any oil or grease has worked its way in between the clutch lining and drum, and if it has wipe it away using oil-free, lead-free gasoline.

## 10. Storage

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- Aged fuel is one of major causes of engine starting failure. Before storing the unit, empty the fuel tank and run the engine until it uses all the fuel left in the fuel line and the carburetor. Store the unit indoor taking necessary measures for rust prevention.

# 11. Troubleshooting guide

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## Case 1. Starting failure

CHECK		PROBABLE CAUSES		ACTION
fuel tank	→	incorrect fuel	→	drain it and with correct fuel
fuel filter	→	fuel filter is clogged	→	clean
carburetor adjustment screw	→	out of normal range	→	adjust to normal range
sparkling (no spark)	→	spark plug is fouled/wet	→	clean/dry
	→	plug gap is incorrect	→	correct (GAP: 0.6~0.7mm)
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 with 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 RedMax service shop in your area.



## 12. Parts list

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### STICK EDGERS

**HE225F**  
**HEZ2500F**

**NOTE :**

1. Use KOMATSU ZENOAH genuine parts as specified in the parts list for repair and/or replacement.
2. KOMATSU ZENOAH does not warrant the machines, which have been damaged by the use of any parts other than those specified by the company.
3. When placing parts orders for repair and/or replacement, check if the model name and the serial number are applicable to those specified in the parts list, then use parts number described in the parts list.
4. The contents described in the parts list may change due to improvement.
5. The parts for the machine shall be supplied seven (7) years after the machine is discontinued. [It is possible that some specific parts may be subject to change of their delivery term and list price within the limit of seven (7) years after the machine is discontinued. It is also possible that some parts may be available even after the limit of seven (7) years.]

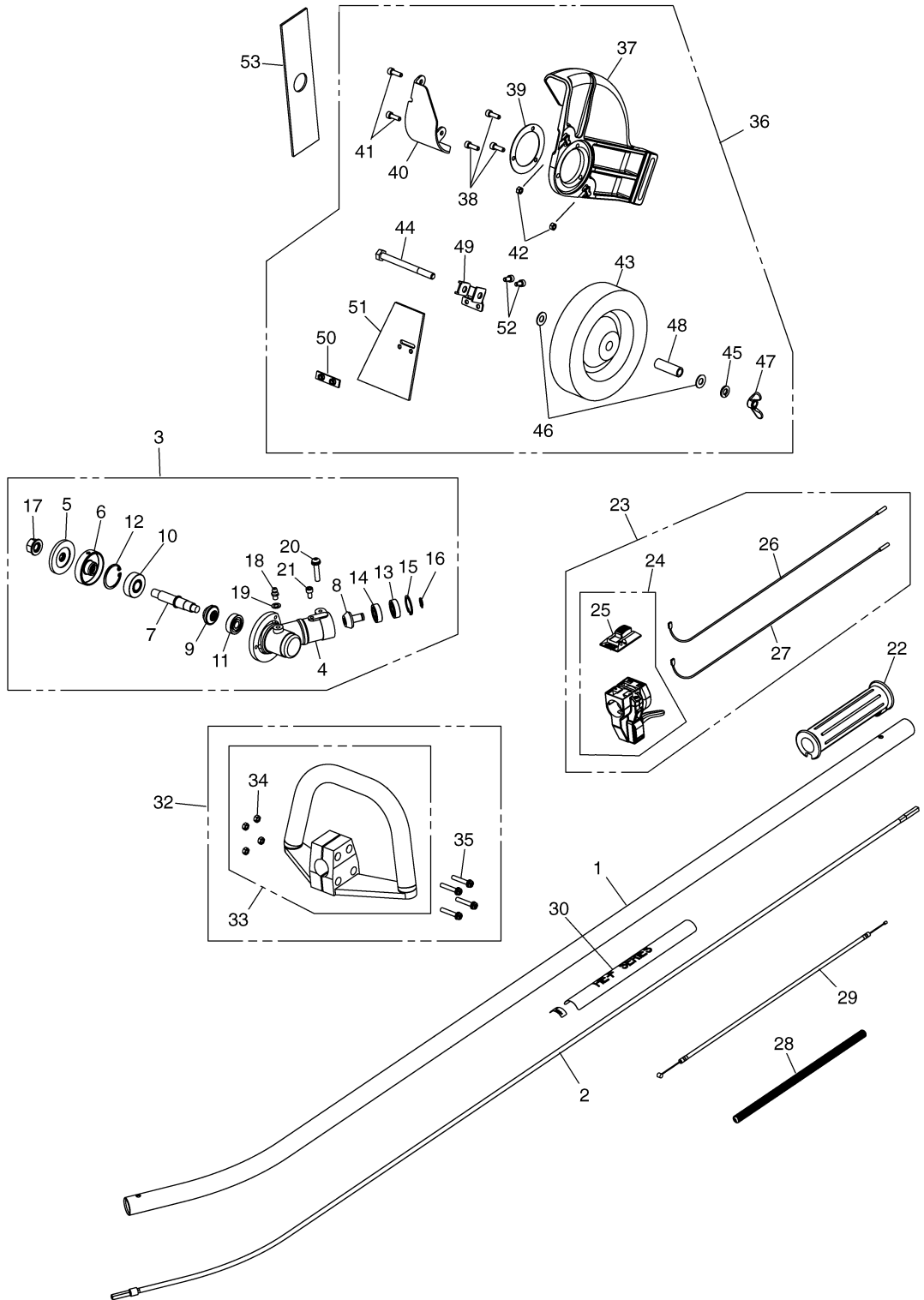
APPLICABLE SERIAL NUMBERS :

Nov. 2003

DRIVE UNIT 200001 and up	ENGINE UNIT (HE225F) 50100000 and up (HEZ2500F) 50100000 and up
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# 12. Parts list

Fig.1 DRIVE UNIT (S/N 200001 and up)

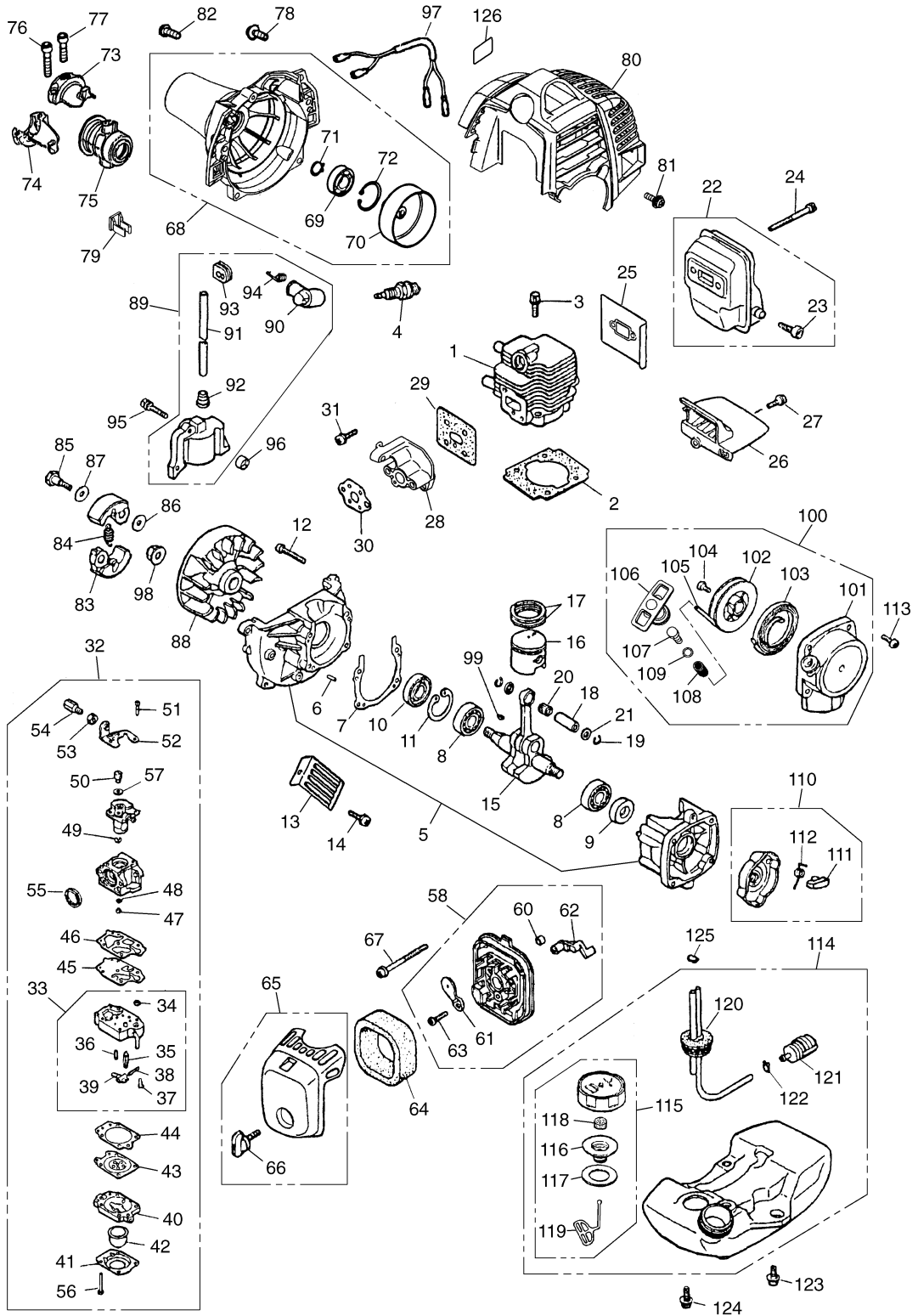


**Fig.1 DRIVE UNIT (S/N 200001 and up)**

Key#	Description	Part Number	Q'ty	Key#	Description	Part Number	Q'ty
1	PIPE COMP.	T3207-12100	1	51	• RUBBER	T3207-24330	1
2	SHAFT COMP.	T3207-12200	1	52	• BOLT (M5x0.8-10)	01252-30510	2
3	GEARCASE ASSY	T3207-13000	1	53	BLADE	6367-15110	1
4	• GEARCASE	T3207-13110	1				
5	• HOLDER-B	6129-13250	1				
6	• HOLDER-A	6129-13240	1				
7	• SHAFT	6129-13211	1				
8	• PINION	T3207-13310	1				
9	• GEAR	6129-13220	1				
10	• BEARING	06004-06201	1				
11	• BEARING	6129-13120	1				
12	• SNAPRING	04065-03212	1				
13	• BEARING	06001-00609	1				
14	• BEARING	06000-00609	1				
15	• SNAPRING	04065-02412	1				
16	• SNAPRING FOR ø9 SHAFT	T3300-13330	1				
17	• NUT	T3002-13260	1				
18	• FITTING, GREASE	3199-13350	1				
19	• WASHER, FITTING	01641-20608	1				
20	• BOLT	T3207-13260	1				
21	• BOLT	01252-30510	1				
22	GRIP	3577-32141	1				
23	LEVER COMP.	T3002-12202	1				
24	• LEVER (FLEX. LEVER)	6110-14412	1				
25	•• COVER, LEVER	6110-14410-02	1				
26	• CORD(A) BLACK	T3002-12220	1				
27	• CORD(B) RED	T3002-12230	1				
28	TUBE	T3002-12240	1				
29	CABLE COMP.	T3002-83100	1				
30	NAME PLATE	848-A41-90R2	1				
32	HANDLE ASSY	T3339-14000	1				
33	• HANDLE COMP.	T3195-14102	1				
34	•• NUT	T3195-14102-04	4				
35	• SCREW	0263-90530	4				
36	GUARD ASSY.	T3207-24000	1				
37	• GUARD	T3207-24110	1				
38	• BOLT (M5x0.8-16)	T3207-24130	3				
39	• PLATE	T3207-24150	1				
40	• PROTECTOR	T3207-24210	1				
41	• BOLT (M5x0.8-16)	T3207-24130	2				
42	• NUT (M5x0.8)	0280-10504	2				
43	• WHEEL	T3052-25150	1				
44	• BOLT	T3207-25170	1				
45	• WASHER, SPRING	01602-20825	1				
46	• WASHER, PLANE	01642-20810	2				
47	• WING NUT	01540-50840	1				
48	• SLEEVE	T3207-25160	1				
49	• BLACKET	T3207-24310	1				
50	• PLATE, RUBBER	T3207-24320	1				

# 12. Parts list

Fig.2 ENGINE UNIT HE225F (S/N 50100000 and up)

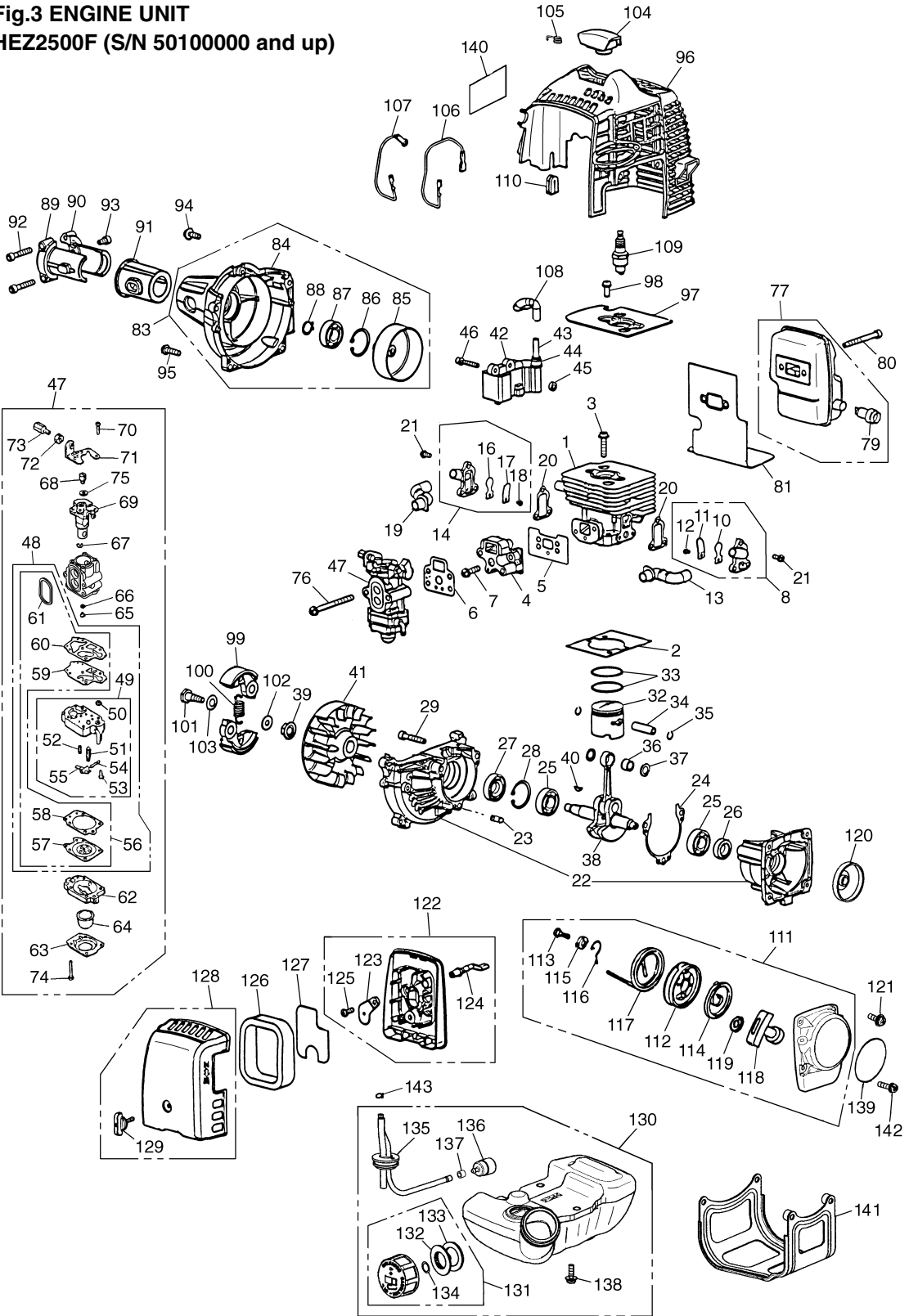


**Fig.2 ENGINE UNIT HE225F (S/N 5010000 and up)**

Key#	Description	Part Number	Q'ty	Key#	Description	Part Number	Q'ty
1	CYLINDER	5580-12110	1	64	ELEMENT	5500-82171	1
2	GASKET, base	5500-12213	1	65	COVER ASSY	T1701-82200	1
3	BOLT	1850-12130	2	66	• KNOB	5500-82221	1
4	PLUG RCJ-6Y	3699-90419-10	1	67	SCREW	0263-90560	2
5	CRANKCASE COMP.	5500-21100	1	68	HOUSING ASSY	T1716-31101	1
6	• PIN	2629-21130	3	69	• BEARING	T1701-31150	1
7	GASKET	5500-21141	1	70	• DRUM	4820-31120	1
8	BEARING	06030-06001	2	71	• RING	04064-01210	1
9	SEAL	2169-21210	1	72	• RING	04065-02812	1
10	SEAL	1850-21220	1	73	BRACKET (A)	T1700-31212	1
11	SNAP RING	04065-02812	1	74	BRACKET (B)	T1700-31221	1
12	BOLT	01252-30530	3	75	CUSHION	T1700-31232	1
13	GUARD	5500-22110	1	76	BOLT	01252-30522	2
14	SCREW	0263-90514	1	77	BOLT	01252-30510	1
15	CRANKSHAFT COMP.	5500-42001	1	78	SCREW	0263-90520	4
16	PISTON	5600-41111	1	79	CLAMP	T1600-72210	1
17	RING	1100-41210	2	80	COVER, engine	T1700-32111	1
18	PIN	1101-41310	1	81	SCREW	T1700-32162	1
19	RING	1260-41320	2	82	SCREW	0263-90514	1
20	BEARING	5500-41410	1	83	SHOE	T1700-51110	2
21	WASHER	1101-41340	2	84	SPRING	T1700-51220	1
22	MUFFLER ASSY	T1702-15100	1	85	SCREW	1140-51250	2
23	• ARRESTER	1601-15120	1	86	WASHER	1140-51230	2
24	BOLT	01252-30550	2	87	WASHER	1970-51241	2
25	GASKET	T1600-15210	1	88	ROTOR	T1700-71110	1
26	PLATE	5500-15221	1	89	COIL ASSY	T1700-71201	1
27	SCREW	0263-90416	1	90	• CAP	5500-72110	1
28	INSULATOR	T1700-13160	1	91	• CORD	T1700-71220	1
29	GASKET, insulator	5500-13121	1	92	• CAP	2616-71320	1
30	GASKET, carburetor	5500-13131	1	93	• GROMMET	5500-72130	1
31	SCREW	0263-90520	2	94	• SPRING	5500-72120	1
32	CARBURETOR ASSY	5501-81000	1	95	BOLT	3310-72150	2
33	• BODY ASSY	1850-81450	1	96	SPACER	T1700-71260	2
34	•• SCREEN	3306-81380	1	97	CORD COMP.	T1700-73200	1
35	•• VALVE	3356-81310	1	98	NUT	1650-43230	1
36	•• SPRING	1850-81270	1	99	KEY	1000-43240	1
37	•• SCREW	1850-81220	1	100	RECOIL ASSY	T1700-75100	1
38	•• PIN	3310-81250	1	101	• CASE COMP.	5500-75110	1
39	•• LEVER	3310-81230	1	102	• REEL	1850-75120	1
40	• BODY, purge	1850-81490	1	103	• SPRING	1850-75130	1
41	• COVER, pump	1850-81520	1	104	• SCREW	1850-75151	1
42	• PUMP, priming	1751-81510	1	105	• ROPE	T1600-75160	1
43	• DIAPHRAGM	3310-81260	1	106	• KNOB	T1600-75310	1
44	• GASKET, diaphragm	1850-81470	1	107	• COLLAR	T1600-75321	1
45	• DIAPHRAGM, pump	1065-81420	1	108	• SPRING	T1600-75330	1
46	• GASKET, pump	1065-81410	1	109	• WASHER	T1600-75210	1
47	• JET	5500-81251	1	110	PULLEYASSY	1850-75201	1
48	• RING	1751-81240	1	111	• RATCHET	1850-75221	1
49	• RING	1751-81130	1	112	• SPRING	1850-75230	1
50	• SWIVEL	1881-81140	1	113	SCREW	T1700-32162	4
51	• SCREW	1752-81110	2	114	TANK ASSY	T1700-85001	1
52	• BRACKET	5500-81120	1	115	• CAP ASSY	5607-85201	1
53	• NUT, adjuster	1751-81180	1	116	•• HOLDER ASSY	5601-85300	1
54	• SCREW, adjuster	1918-81170	1	117	•• PACKING	5500-85220	1
55	• RING	1881-81130	1	118	•• FILTER	5601-85260	1
56	• SCREW	1850-81530	4	119	•• STOPPER	4820-85260	1
57	• WASHER	5500-81160	1	120	• PIPE COMP.	5500-85300	1
58	BODY ASSY	T1700-82100	1	121	• FILTER ASSY	5500-85400	1
				122	• CLIP	1260-85460	1
60	• SLEEVE	1970-82190	2	123	SCREW	5910-85510	1
61	• PLATE, choke	T1700-82130	1	124	SCREW	5500-85510	2
62	• LEVER, choke	T1700-82140	1	125	CLIP	1950-86120	1
63	• SCREW	2630-33610	1	126	LABEL	T1716-31120	1

# 12. Parts list

**Fig.3 ENGINE UNIT**  
HEZ2500F (S/N 50100000 and up)



**Fig.3 ENGINE UNIT HEZ2500F (S/N 5010000 and up)**

Key#	Description	Part Number	Q'ty	Key#	Description	Part Number	Q'ty
1	CYLINDER	848-F30-12A2	1	74	• SCREW	1850-81530	4
2	GASKET, base	4810-12210	1	75	• WASHER	5500-81160	1
3	BOLT	1850-12130	2	76	SCREW	0263-90560	2
4	INSULATOR	4810-13162	1	77	MUFFLER ASSY	4810-15100	1
5	GASKET, insulator	4810-13120	1				
6	GASKET, carburetor	4810-13130	1	79	• ARRESTER	4810-15140	1
7	SCREW	0263-90520	1	80	BOLT	01252-30550	2
8	REEDVALVE (S) ASSY	848-F30-1602	1	81	GASKET	T1501-15211	1
10	• REEDVALVE	4810-16120	1	83	COVER COMP.	T1514-31101	1
11	• STOPPER	4810-16130	1	84	• COVER, fan	4810-31111	1
12	• SCREW	4810-16170	1	85	• DRUM	4820-31120	1
13	PIPE AIR (S)	4810-16150	1	86	• SNAPRING	04065-02812	1
14	REEDVALVE (F) ASSY	848-F30-1612	1	87	• BEARING	T1701-31150	1
				88	• SNAP RING	04064-01210	1
16	• REEDVALVE	4810-16120	1	89	BRACKET (A)	6470-31211	1
17	• STOPPER	4810-16130	1	90	BRACKET (B)	6470-31221	1
18	• SCREW	4810-16170	1	91	CUSHION	6470-31230	1
19	PIPE AIR (F)	4810-16160	1	92	BOLT	01252-30530	2
20	GASKET, valve	4810-16140	2	93	BOLT	01252-30514	1
21	SCREW	4810-16180	6	94	SCREW	5500-85510	1
22	CRANKCASE COMP.	4810-21101	1	95	SCREW	0263-90520	4
23	• PIN	2629-21130	3	96	COVER, engine	4810-32111	1
24	GASKET	4810-21140	1	97	PLATE	T1501-12310	1
25	BEARING	06030-06001	2	98	SCREW	0263-90510	2
26	SEAL	4810-21210	1	99	SHOE	4820-51110	2
27	SEAL	1850-21220	1	100	SPRING	4820-51220	1
28	SNAP RING	04065-02812	1	101	SCREW	1140-51250	2
29	BOLT	01252-30530	3	102	WASHER	1140-51230	2
				103	WASHER	1140-51242	2
				104	CAP	4810-72111	1
32	PISTON	4810-41110	1	105	SPRING	1900-72120	1
33	RING	5910-41210	2	106	CORD	4810-71240	1
34	PIN	T1513-41310	1	107	CORD, earth	4810-71250	1
35	RING	1260-41320	2	108	TUBE	T1512-71320	1
36	BEARING	5500-41410	1	109	PLUG CMR7A	3699-91667	1
37	WASHER	1101-41340	2	110	GROMMET	4810-72120	1
38	CRANKSHAFT COMP.	4810-42000	1	111	RECOIL ASSY	4810-75100	1
39	NUT	1650-43230	1	112	• REEL	4500-75120	1
40	KEY	1000-43240	1	113	• SCREW	4500-75150	1
41	ROTOR	4810-71110	1	114	• SPRING, spiral	1850-75130	1
42	COIL ASSY	T1512-71200	1	115	• COLLAR	4500-75180	1
43	• CORD	T1512-71220	1	116	• ARM	4500-75190	1
44	• CAP	2616-71320	1	117	• ROPE	4810-75160	1
45	SPACER	1260-71261	2	118	• KNOB	3330-75421	1
46	BOLT	4500-72150	2	119	• PLATE, stopper	4810-75170	1
47	CARBURETOR ASSY	848-F30-8103	1	120	PULLEY	4500-75210	1
48	• REBUILD KIT	T1551-06030	1	121	SCREW	5500-85510	2
49	•• BODY ASSY	T1551-81450	1	122	BODY ASSY	4810-82100	1
50	••• SCREEN	_____	—	123	• PLATE, choke	4810-82130	1
51	••• VALVE	_____	—	124	• LEVER, choke	5500-82140	1
52	••• SPRING	_____	—	125	• SCREW	2630-33610	1
53	••• SCREW	_____	—	126	ELEMENT	4810-82170	1
54	••• PIN	_____	—	127	SCREEN	4810-82180	1
55	••• LEVER	_____	—	128	COVER ASSY	4810-82200	1
56	•• GASKET KIT	4810-06021	1	129	• KNOB	5500-82221	1
57	••• DIAPHRAGM	_____	—	130	TANK ASSY	T1504-85002	1
58	••• GASKET, diaphragm	_____	—	131	• CAP ASSY	T1015-85202	1
59	••• DIAPHRAGM, pump	_____	—	132	•• HOLDER ASSY	4500-85300	1
60	••• GASKET, pump	_____	—	133	•• PACKING	4500-85220	1
61	••• RING	4810-81130	1	134	•• FILTER	5601-85260	1
62	• BODY, purge	1850-81490	1	135	• PIPE COMP.	4810-85300	1
63	• COVER, pump	1850-81520	1	136	• FLTER ASSY	3302-85400	1
64	• PUMP, priming	1751-81510	1	137	• COLLAR	2841-31280	1
65	• JET	T1505-81250	1	138	SCREW	5500-85510	3
66	• O-RING	1751-81240	1	139	LABEL, recoil	_____	—
67	• RING	1751-81130	1	140	LABEL, cover	4810-31132	1
68	• SWIVEL	1881-81140	1	141	GUARD	T1506-31910	1
69	• VALVE ASSY	_____	—	142	SCREW	0263-90525	2
70	• SCREW	1752-81110	2	143	CLIP	1950-86120	1
71	• BRACKET	5500-81120	1				
72	• NUT, adjuster	1751-81180	1				
73	• SCREW, adjuster	1918-81170	1				

# RedMax LIMITED WARRANTY

**EMISSION-RELATED PARTS**, FOR TWO (2) YEARS FROM THE DATE OF ORIGINAL DELIVERY OF THE UNIT, KOMATSU ZENOAH AMERICA INC. (THE COMPANY), THROUGH ANY RedMax DEALER, WILL REPAIR OR REPLACE, FREE OF CHARGE, FOR THE ORIGINAL AND EACH SUBSEQUENT PURCHASER, ANY PART OR PARTS FOUND TO BE DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP. EMISSION-RELATED PARTS ARE:

**THE CARBURETOR ASSY, COIL ASSY, ROTOR, SPARKPLUG,  
AIR FILTER, FUEL FILTER, INTAKE MANIFOLD, AND THE GASKETS**

**ALL OTHER PARTS EXCEPT ABOVE PARTS**, FOR TWO (2) YEARS OF USE, 90 DAYS FOR RENTAL USE, FROM THE DATE OF ORIGINAL PURCHASE, THE COMPANY, THROUGH ANY RedMax DEALER, WILL REPAIR OR REPLACE, FREE OF CHARGE, FOR THE ORIGINAL PURCHASER, ANY PART OF PARTS FOUND TO BE DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP. **THIS IS THE EXCLUSIVE REMEDY.**

THE PURCHASER SHALL BEAR COSTS OF TRANSPORTING THE UNIT TO AND FROM THE RedMax 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 RedMax 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 REPLACEMENT POINT FOR THE PART.

ANY REPLACEMENT PART THAT IS EQUIVALENT IN PERFORMANCE AND DURABILITY 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 FAILURE 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, ACCIDENTAL MISHANDLING, ALTERATION, ABUSE, IMPROPER LUBRICATION, USE OF ANY PARTS OR ACCESSORIES OTHER THAN THOSE SPECIFIED BY THE COMPANY, OR OTHER CAUSES BEYOND THE COMPANY'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 USE FROM THE ORIGINAL DELIVERY DATE.

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

SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS OR EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

IF YOU NEED TO OBTAIN INFORMATION ABOUT THE NEAREST SERVICE CENTER, PLEASE CALL KOMATSU ZENOAH AMERICA INC. AT (770)-381-5147.

**IMPORTANT:** YOU WILL RECEIVE A WARRANTY REGISTRATION CARD AT TIME OF PURCHASE. PLEASE FILL OUT THE CARD AND SEND IT TO RedMax / KOMATSU ZENOAH AMERICA WITHIN SEVEN (7) DAYS. BE SURE TO KEEP A COPY FOR YOUR RECORDS.



KOMATSU ZENOAH AMERICA INC.  
4344 Shackelford Road Suite 500  
Norcross, Georgia 30093



## RedMax Garantie limitée

**Pièces en rapport avec les émissions de gaz d'échappement :** KOMATSU ZENOAH AMERICA INC., par l'intermédiaire de n'importe quel revendeur RedMax, réparera gratuitement ou remplacera gratuitement pour l'acheteur initial et chaque acheteur successif toute(s) pièce(s) se révélant de constitution et/ou de montage défectueux pendant deux (2) ans à compter de la date initiale de livraison d'une unité. Les pièces en rapport avec les émissions de gaz d'échappement sont:

**l'assemblage carburateur, l'assemblage bobine, le rotor, la bougie,  
le filtre à air, le filtre à carburant, la tubulure d'admission et les joints**

**Toutes les pièces autres que celles mentionnées ci-dessus**, deux (2) ans d'utilisation, 90 jours pour la location, à compter de la date d'achat initial. La société, par l'intermédiaire d'un distributeur RedMax, réparera ou remplacera toute(s) pièce(s), sans frais et au bénéfice de l'acheteur original, en prenant en charge les frais de pièces et/ou de main d'œuvre. **Telles sont les limites de la garantie.**

Le coût du transport de l'unité jusqu'au revendeur RedMax et depuis celui-ci sera à la charge de l'acheteur.

L'acheteur ne supportera pas le coût de main d'œuvre du diagnostic qui amène à la conclusion qu'une pièce garantie est défectueuse, si ce diagnostic est effectué chez le revendeur RedMax.

L'acheteur ou propriétaire a pour responsabilité d'effectuer l'entretien obligatoire tel que défini par le fabricant dans le manuel du propriétaire/de l'utilisateur.

Toute pièce garantie dont le remplacement n'est pas prévu dans le cadre de l'entretien obligatoire, ou pour laquelle est seulement prévue une inspection périodique pour "remplacement ou réparation si nécessaire" sera garantie pour la période de garantie. Toute pièce garantie arrivée à l'échéance de son premier remplacement prévu sera garantie jusqu'à celui-ci.

Toute pièce de rechange équivalente en performance ou en durabilité peut être utilisée pour l'entretien hors-garantie ou les réparations hors-garantie, et ce sans réduire l'obligation de garantie incombant à la société.

La société sera tenue responsable des dommages aux autres composants du moteur causés par la défaillance de pièce(s) garantie(s) en période de garantie.

**La garantie ne s'applique pas** aux unités endommagées par suite de: négligence dans la mise en oeuvre des instructions spécifiées dans le manuel du propriétaire/de l'utilisateur en vue d'une utilisation et d'un entretien correct, fausse manœuvre accidentelle, modification, utilisation abusive, lubrification incorrecte, utilisation de pièces ou d'accessoires autres que ceux spécifiés par la société, ou autres causes hors du contrôle de la société.

**Cette garantie ne couvre pas** les pièces remplacées en raison de leur usure normale ou de changements d'apparence sans effets.

**Il n'existe aucune autre garantie explicite.**

**Les garanties implicites**, y compris la valeur marchande et la valeur d'usage pour une utilisation particulière, **sont limitées** à deux (2) ans d'utilisation à compter de la date originale de livraison.

**Les responsabilités pour les dommages conséquents ou incidents sont exclues de toutes les garanties.**

Certaines provinces n'autorisant pas les limitations à la durée des garanties implicites, ou les exclusions ou limitations relatives aux dommages incidents ou conséquents, la limitation indiquée ci-dessus peut ne pas vous être applicable.

Cette garantie vous donne des droits juridiques spécifiques, et vous pouvez également jouir d'autres droits variant d'une province à l'autre.

Si vous désirez obtenir des informations sur le centre de service le plus proche, veuillez appeler KOMATSU ZENOAH AMERICA INC. au (770)-381-5147

**Note importante:** vous recevrez une carte d'enregistrement de garantie au moment de l'achat. Veuillez la remplir et l'adresser à RedMax / KOMATSU ZENOAH AMERICA sous sept (7) jours en prenant soin de conserver une copie pour vous.



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