

# OPERATOR'S MANUAL

## KINETIC LOG SPLITTER



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**! WARNING**

Read and understand this manual and all instructions before operating the KINETIC LOG SPLITTER.

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## General Safety Rules

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### **WARNING**





Read this Safety & Operating Instructions manual before you use the KINETIC LOG SPLITTER. Become familiar with the operation and service recommendations to ensure the best performance from your machine. If you have any questions or need assistance, please contact your local dealer.


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### **Warning Labels**

Your KINETIC LOG SPLITTER carries prominent labels as reminders for its proper and safe use. Shown below are copies of all the Safety and Information labels that appear on the equipment. Take a moment to study them and make a note of their location on your LOG SPLITTER as you set up and before you operate the unit. Replace damaged or missing safety and information labels immediately.

** WARNING**

 <p><b>Please read and understand fully the operating instructions before operateing log splitter</b></p>	 <p><b>Unplug when not in use, before making adjustments,changing parts,cleaning or working on the log splitter</b></p>
 <p><b>Always hold logs by the sides not the ends when put the logs on log splitter</b></p>	 <p><b>Always pay full attention to the movement of the log pusher and keep your hands away from all moving parts</b></p>
 <p><b>Only one person is allowed to operate this log splitter,other people should keep a sfe distance from work area and keep children away from the log splitter at all times.</b></p>	 <p><b>Always use the following safety equipment when operating this splitter: Ear muffs,Hard hat,Gloves,Boots,Face shield and protective clothing.</b></p>



** WARNING**

**PINCH POINT - KEEP AWAY**

To avoid serious injury. Keep hands clear of moving parts. Speeds may change with load or engine RPM

## ***Protecting Yourself and Those Around You***

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### **WARNING**

This is a high-powered machine, with moving parts operating with high energy. You must operate the machine safely. Unsafe operation can create a number of hazards for you, as well as anyone else in the nearby area. Always take the following precautions when using this machine:

- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people, their property, and themselves.
  - Always wear protective goggles or safety glasses with side shields while using the Log Splitter to protect your eyes from possible thrown debris.
  - Avoid wearing loose clothing or jewelry, which can catch on moving parts.
  - We recommend wearing gloves while using the Log Splitter. Be sure your gloves fit properly and do not have loose cuffs or drawstrings.
  - Wear shoes with non-slip treads when using your Log Splitter. If you have safety shoes, we recommend wearing them. Do not use the machine while barefoot or wearing open toed sandals.
  - Wear long pants while operating the Log Splitter.
  - Use ear protectors or ear plugs rated for at least 20 dba to protect your hearing.
  - Keep bystanders at least 50 feet away from your work area at all times. Stop the motor when another person or pet approaches.
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## ***Safety for Children and Pets***

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### **WARNING**

Tragic accidents can occur if the operator is not alert to the presence of children and pets. Children are often attracted to the machine and the splitting activity. *Never* assume that children will remain where you last saw them. Always follow these precautions:

- Keep children and pets at least 50 feet from the working area and ensure they are under the watchful care of a responsible adult.
  - Be alert and turn the machine off if children or pets enter the work area.
  - Never allow children to operate the Log Splitter.
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## ***Safety with Electric - Powered Machines***

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### **! WARNING**

Never overlook the hazards of electricity. Always follow these precautions:

- Never open the switch box or motor cover. Never attempt any electrical repairs yourself. If in doubt, consult a qualified electrician, or contact your local dealer for help or information.
  - Never use an extension cord that is not rated for outdoor use.
  - Never operate the Log Splitter if there is an electrical hazard present.
  - Never operate the Log Splitter in wet conditions and always store under cover.
  - Never operate the Log Splitter with a damaged electrical cord or damaged extension cord.
  - Never pull on the electrical cord to move the machine.
  - Always grasp the electrical cord plug when unplugging the cord from the outlet; never pull the plug out by the cord. Make sure your fingers do not touch the metal prongs when plugging or unplugging.
  - Never operate the Log Splitter unless the electrical cord is plugged into a properly grounded protected electrical outlet,
  - Never tamper with safety devices. Check their proper operation regularly.
  - If you are using an extension cord, keep the connection between the electrical cord and the extension cord well away from any water.
  - Never use an extension cord longer than 25 feet and smaller than 2 square meter in diameter, the cord will produce a voltage drop that will prevent the motor from supplying full power and may cause damage to the motor. Use of a smaller diameter (larger awg number) extension cord could result in melting of the insulation or even create a fire.
  - Always keep the electrical cord and/or extension cord away from excessive heat, oil, and sharp objects.
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## General Safety

### **WARNING**

Operating this Log Splitter safely is necessary to prevent or minimize the risk of death or serious injury. Unsafe operation can create a number of hazards for you. Always take the following precautions when operating this Log Splitter:

- Your Log Splitter is a powerful tool, not a plaything. Exercise extreme caution at all times. The machine is designed to split logs. Do not use it for any other purpose.
- Know how to stop the Log Splitter quickly; see “stopping the motor”
- Never operate your unit on a slippery, wet, muddy, or icy surface. Exercise caution to avoid slipping or falling.
- See manufacturer’s instructions for proper operation and installation of accessories.
  
- Never use the machine without ensuring that all guards and shields are in place.
- Never, under any conditions, remove, bend, cut, fit, weld, or otherwise alter standard parts on the Log Splitter. This includes all shields and guards. Modifications to your machine could cause personal injuries and property damage and will void your warranty.
- Allow only one person to operate the Log Splitter at any time. This includes placing the log on the beam.
- If the machine should start making an unusual noise or vibration, shut off the Motor, Unplug the Power Cord, wait five minutes for machine to cool down then inspect for damage. Vibration is generally a warning of trouble. Check for damaged parts and clean, repair and replace as necessary.
- Never tamper with safety devices. Check their proper operation regularly.
- Before performing any maintenance or inspection procedure on the Log Splitter, shut off the Motor, unplug the Power Cord and wait five minutes for machine to cool down.
- Never allow people who are unfamiliar with these instructions to use the Log Splitter. Allow only responsible individuals who are familiar with these rules of safe operation to use your machine.
- Never overload or attempt to split logs beyond the recommendations listed in this manual. Personal injury or damage to the machine could result.
- While using the Log Splitter, don't hurry or take things for granted. When in doubt about the equipment or your surroundings stop the machine and take the time to look things over.
- Never operate the machine when under the influence of alcohol, drugs, or medication.
- Use the machine only in daylight.
- Stay alert for hidden hazards or traffic.
- Keep all nuts and bolts tight and keep the equipment in good operating condition.

### **A Note to All Users**

No list of warnings and cautions can be all-inclusive. If situations occur that are not covered by this manual, the operator must apply common sense and operate this KINETIC LOG SPLITTER in a safe manner.

## Setting Up The KINETIC LOG SPLITTER

It may be helpful to familiarize yourself with the controls and features of your KINETIC LOG SPLITTER as shown in Figure 1 before beginning these procedures. If you have any questions at all, please feel free to contact us your local dealer.

### *KINETIC LOG SPLITTER Controls and Features*

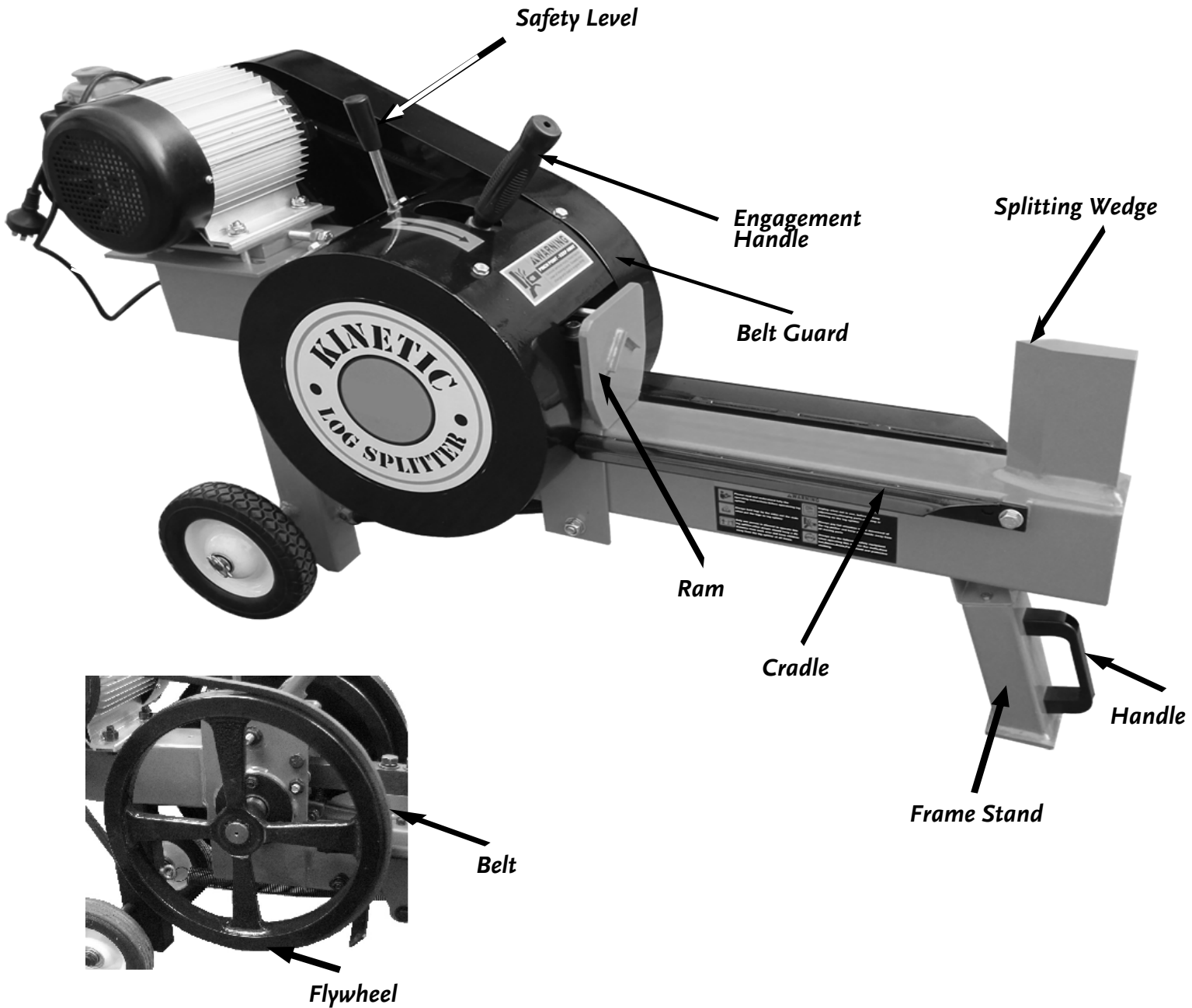


Figure 1

Model	SK-E5T	SK-E8T
Motor	1600W,100V~50/60Hz 110V~60Hz,230V~50Hz,220V~60Hz	2000W,100V~50/60Hz 110V~60Hz,230V~50Hz,220V~60Hz
Max Splitting force	5ton	8ton
Max splitting length	400mm	520mm
Max splitting dia.	280mm	350mm
RPM	400	400
Cycle time	1second	2seconds
New weight	90kgs	110kgs

**\* The diameter listed is indicative of the maximum suggested size. A small log can be difficult to split when it contains knots or a particularly tough fiber. On the other hand, it may not be difficult to split logs with regular fibers even if its diameter exceeds the maximum indicated above.**

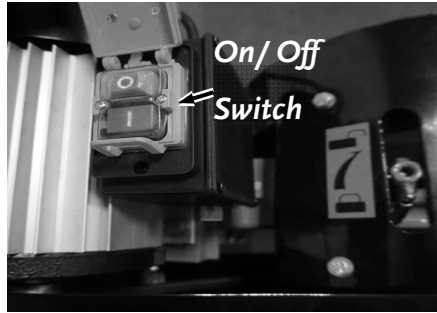


Figure 2



Figure 3



Figure 4



Figure 5

## Operation

Refer to the “Safety with Electric - Powered Machines” before using the Electric Motor for safety warnings and specific power and connection requirements.

### Starting the Motor

1. Position your Log Splitter on a flat, dry surface and chock the Wheels or screw down the Frame Stand to prevent the Splitter from moving during use.
2. Make sure the Log Splitter is plugged into a properly grounded protected outlet.
3. Push the green button ( **Figure 2** ).

### Stopping the Motor

1. Push the emergency stop or red button to shut the Motor off ( **Figure 2** ).

**Note:** Unplug the Power Cord when not using the Splitter.

## Splitting Logs

**Note:** All logs should be no longer than rated. Refer to the following photos for the correct and incorrect methods of splitting logs. Never split a log using an incorrect or unsafe method.

### ! WARNING

- Do not place your hands on the ends of the log when loading the Log Splitter. This is a very UNSAFE method and could result in injury to your hands ( **Figure 3** ).
- Do not reach or step across the beam while the Log Splitter is running. This is a very UNSAFE method which could cause personal injury or even death.

### ! CAUTION

- Never attempt to split wood across the grain ( **Figure 4** ). The Log Splitter was not designed for cross-grain splitting. Doing so could damage the Log Splitter and may cause personal injury.
- Make sure both ends of the log you are splitting are cut as square as possible ( **Figure 5** ). This will prevent the log from sliding out of position while under pressure.



## NOTICE

THE KINETIC LOG SPLITTER OPERATES DIFFERENTLY THAN A HYDRAULIC SPLITTER. NOT OPERATING THE MACHINE PROPERLY WILL RESULT IN DAMAGE TO THE MACHINE. ALWAYS FOLLOW THESE NOTICES:

- Do not be timid. A rapid movement of the Engagement Handle is necessary for the Rack and Pinion to engage and disengage fully without damage.
- The Engagement Handle should never be stopped in any location between the fully forward or fully backward positions.
- Do not hold the Handle in the forward position when the Ram stops moving forward. Always pull the Engagement Handle RAPIDLY to the back (Auto-Retract) position as soon as the Log is split or when the Ram is at the end of the stroke or when the Ram stops moving forward due to a tough log.

1. Place the log on the Log Splitter. Grasp the log on the sides near the middle of the block (**Figure 6**). Center the log, side-to-side, on the rail of the Log Splitter, making sure that one end is against the Splitting Wedge.

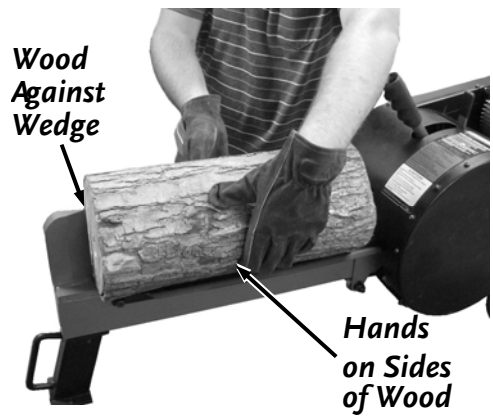


Figure 6

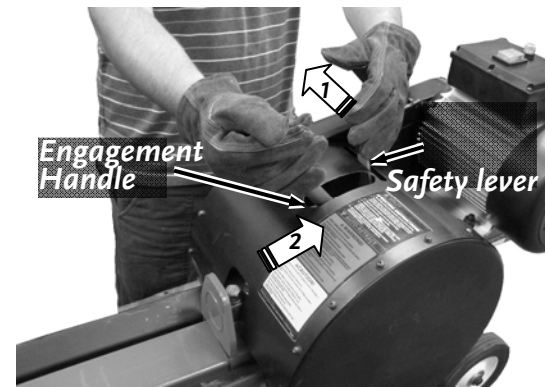


Figure 7

## CAUTION

- The engagement Handle must be held fully in the Split Position against the hard stop when splitting. Failure to do so may result in kickback of the Handle.
2. With one hand, actuate and hold the safety lever towards you, then **RAPIDLY** actuate the Engagement Handle fully towards the Motor until it contacts the hard stop and hold firmly until the Log is split (**Figure 7**).
  3. **IMMEDIATELY AFTER** the log is split, actuate and hold the Engagement Handle to the Auto-Retract position to allow the Ram to return. If the Ram stops before the end of the stroke while splitting a tough log, quickly actuate the Engagement Handle back to the Auto-Retract position.

### Splitting Tough Logs

If the Ram stops before the end of the stroke while splitting a tough Log, quickly actuate the Engagement Handle back to the Auto-Retract position. Let the Ram return and allow the Flywheels to gain momentum for another full power split.

## Maintaining the KINETIC LOG SPLITTER

Regular maintenance is the way to ensure the best performance and long life of your machine. Please refer to this manual for proper maintenance procedures.

### **⚠ WARNING**

Before performing any maintenance procedure or inspection, stop the motor, unplug the power cord and wait five minutes to allow all parts to cool.

### **Regular Maintenance Checklist**

PROCEDURE	BEFORE EACH USE	EVERY 5 HOURS	EVERY 25 HOURS
Check General Equipment Condition	▲		
Perform Rail Maintenance	▲		
Check Belt	▲		
Check the condition of the electrical cord.	▲		
Grease Rack		▲	
Clean Motor Exterior and Cooling Fins			▲

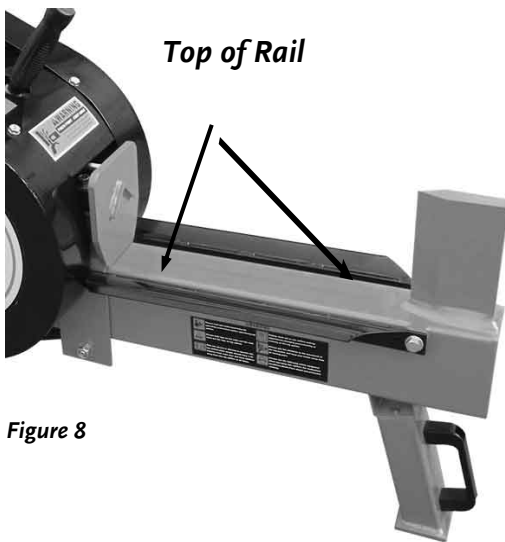


Figure 8

### **Lubrication**

All Bearings of your Splitter are sealed units and should have sufficient lubricant to last the life of your machine with normal use. Perform machine lubrication per the following instructions.

### **Rail Maintenance**

Between each use of the LOG SPLITTER, we recommend removing any debris caught on the Rail or Ram and applying a rust preventative (Fluid Film or equivalent) to any bare metal areas on the top of the Rail (**Figure 8**). This will assure the smoothest return action of the Ram.

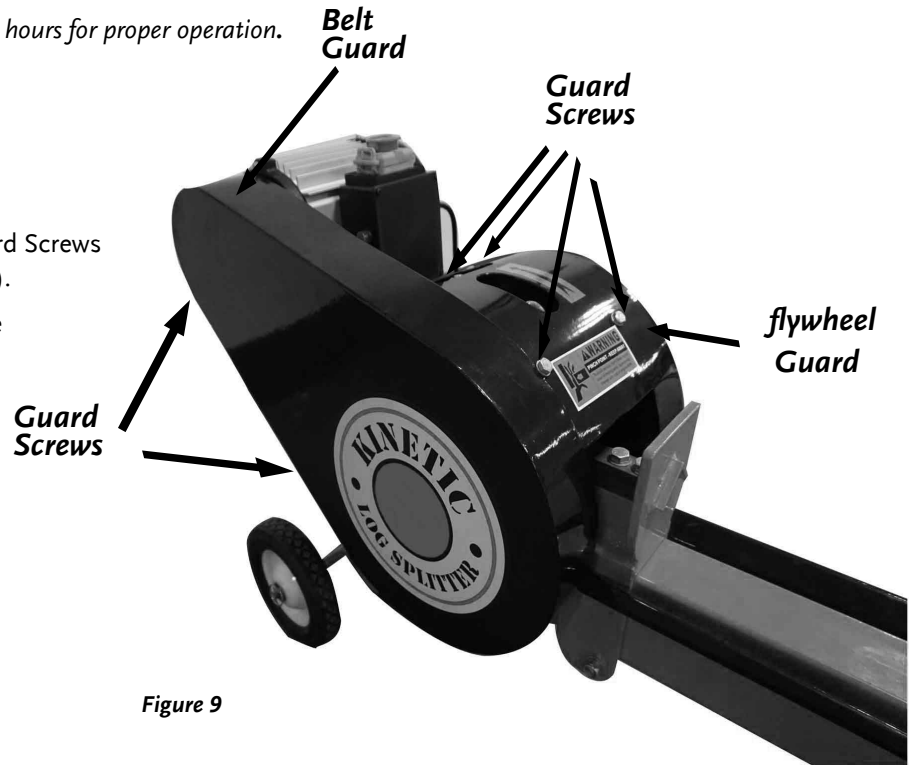
## Greasing the Rack

**Note:** It is important to grease the Rack every 5 hours for proper operation.

### Tools and Supplies needed:

- General Purpose Grease
- Clean Rags
- 13mm Wrench

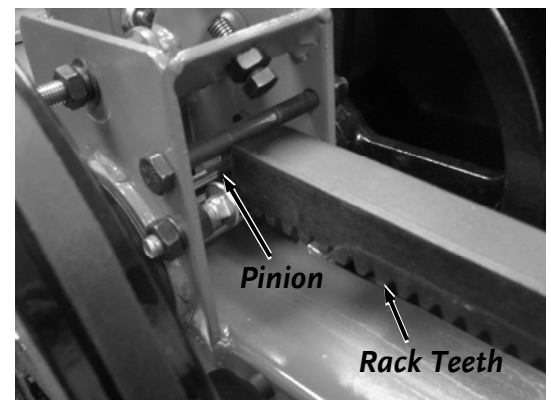
1. Use a 13mm wrench to remove the Guard Screws that secure the flywheel Guard (**Figure 9**).
2. Remove the Guard Screws that secure the Flywheel and Belt Guard.



**Figure 9**

3. Disconnect the return spring .

4. Pull the Rack out and grease the Rack Teeth, top side of the Rack and the Pinion (**Figure 10**).
5. Push the Rack back in and reinstall the Return Spring when finished greasing.
6. Reinstall the Guards.



**Figure 10**

## Troubleshooting

Most problems are easy to fix. Consult the Troubleshooting Table below for common problems and their solutions. If you continue to experience problems, contact your local dealer.

### **WARNING**

Before performing any maintenance procedure or inspection, stop the electric motor, wait five minutes to allow all parts to cool. Disconnect the power cord from the source of Electricity.

### Troubleshooting Table

SYMPTOM	POSSIBLE CAUSE
<i>The Motor does not run</i>	<ul style="list-style-type: none"> <li>⇒ Splitter unplugged; plug Splitter in.</li> <li>⇒ Splitter Cord may be damaged.</li> <li>⇒ The Splitter motor circuit breaker has tripped; push the Reset Button.</li> <li>⇒ If the above causes are not the problem, a circuit breaker of the electrical circuit you are plugged into might need to be reset; Reset Circuit Breaker.</li> <li>⇒ If the Motor still does not run, contact your local dealer</li> </ul>
<i>Motor Reset continuously trips</i>	<ul style="list-style-type: none"> <li>⇒ Make sure the voltage at the outlet or extension cord connection to the Splitter is 110-120VAC. 200-240VAC which meeting your country standard.</li> <li>⇒ If you are using an extension cord, make sure that the cord is no more than 25 feet long, is not smaller than 12 AWG or 2 square meter wire.</li> <li>⇒ The Belt is too tight. Check the Belt Tension and adjust to allow for slipping.</li> </ul>
<i>Log fails to split.</i>	<ul style="list-style-type: none"> <li>⇒ Incorrect positioning of the log; re-position the log flat on the splitting beam with the end squarely against the Wedge.</li> <li>⇒ Log exceeds permitted dimensions or the wood is too hard for the capacity of the machine. The maximum log length is 16" with a maximum diameter of 12" for the Splitter</li> </ul>
<i>Rack returning very slow or not returning properly.</i>	<ul style="list-style-type: none"> <li>⇒ Check for wood chips or debris between ram and rail. Clean beam of built up/caked on debris.</li> <li>⇒ Check rack lift bearing for alignment or damage.</li> <li>⇒ Check interference between Ram and Tray.</li> <li>⇒ Return spring is unhooked or damaged. Reconnect or replace as needed.</li> </ul>
<i>Operator Lever snapping out of gear or not staying in gear.</i>	<ul style="list-style-type: none"> <li>⇒ Lever not all the way in the Split Position when rack comes under full load. Push lever quicker and more forcefully into the full Split Position. A hard stop should be felt at the end of the stroke when engaging the handle.</li> <li>⇒ Vertical adjustment is not adjusted correctly</li> <li>⇒ Ram has been overloaded at lower part of face. Check rack gear for straightness.</li> </ul>
<i>With Motor running and the handle is pushed, the ram does not move or is slow to respond.</i>	<ul style="list-style-type: none"> <li>⇒ Make sure the voltage at the outlet or extension cord connection to the Splitter is 110-120VAC. 200-240VAC which meeting your country standard.</li> <li>⇒ If you are using an extension cord, make sure that the cord is no more than 25 feet long, is not smaller than 12 AWG or 2 square meter wire.</li> <li>⇒ If the Wedge will still not move or is slow to respond, call your local dealer for assistance</li> </ul>

## Troubleshooting Table (Continued)

### **WARNING**

Before performing any maintenance procedure or inspection, stop the electric motor, wait five minutes to allow all parts to cool. Disconnect the power cord from the source of Electricity.

<b>SYMPTOM</b>	<b>POSSIBLE CAUSE</b>
<i>Rack slamming back too fast.</i>	⇒ Wedge end of machine too high. Must be almost level with ram end or just slightly higher. ⇒ Springs not operating properly. Fix or replace as needed.
<i>Machine does not seem to have full splitting power.</i>	⇒ The belt may be too loose. Adjust the belt
<i>Operator Lever not engaging rack with pinion gear.</i>	⇒ Clean wood chips or other debris from under rack. ⇒ Clean accumulated dirt from frame where carriage assembly rests against rubber bumpers.
<i>Rack not disengaging from pinion when handle is released</i>	⇒ Belt must be loosened to allow for slipping while disengaging. Adjust belt