

# US Sander LLC Operator's Manual



## DRE10 & DRE13 Radiator/Toe Kick Edger

Route 20  
Esperance, NY 12066  
(518)-875-6124  
FAX (518)-875-9942

### **US Sander U. S. WARRANTY**

This US Sander Industrial/Commercial Product is warranted to be free from defects in materials and workmanship under normal use and service for a period of one year from the date of purchase, when operated and maintained in accordance with US Sander Maintenance and Operations Instructions.

This warranty is extended only to the original purchaser for use of the product. It does not cover normal wear parts such as electrical cable, V-belt, or backing pad.

If difficulty develops with the product, you should:

- (a). Return the complete tool, freight prepaid, to US Sander, Route 20, Esperance, NY, 12066 or an authorized repair center. Only repair center locations are authorized to make repairs to the product under this warranty.
- (b). If inspection shows the trouble is caused by defective workmanship or material, US Sander will repair the product and or replace any defective parts without charge within a reasonable time after receipt of the product.

This warranty does not apply where:

- repairs have been made or attempted by others
- repairs are required because of normal wear and tear
- the tool has been abused, misused or improperly maintained
- alterations have been made to the tool

US Sander's liability under this warranty is limited to repair of the product and/or replacement of parts and is given to purchaser in lieu of all other remedies, including INCIDENTAL AND CONSEQUENTIAL DAMAGES.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SPECIFIED HEREIN. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. NO WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY, SHALL BE IMPLIED.

### **READ THIS BOOK**



This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your US Sander machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If you cannot read English, have this manual explained fully before attempting to operate this machine.



All directions given in this book are as seen from the operator's position at the rear of the machine.  
For new books write to: US Sander, P. O. Box 335, Esperance, NY 12066

# **OPERATOR SAFETY INSTRUCTIONS**

WARNING

AVERTISSEMENT

ADVERTENCIA



**DANGER** means:

Severe bodily injury or death can occur to you or other personnel if the **DANGER** statements found on this machine or in this Owner's Manual are ignored or are not adhered to. Read and observe all **DANGER** statements found in this Owner's Manual and on your machine.



**WARNING** means:

Injury can occur to you or to other personnel if the **WARNING** statements found on your machine or in this Owner's Manual are ignored or are not adhered to. Read and observe all **WARNING** statements found in this Owner's Manual and on your machine.



**CAUTION** means:

Damage can occur to the machine or to other property if the **CAUTION** statements found on your machine or in this Owner's Manual are ignored or are not adhered to. Read and observe all **CAUTION** statements found in this Owner's Manual and on your machine.

**DANGER:**

Failure to read the Owner's Manual prior to operating or attempting any service or maintenance procedure to your US Sander machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. **If you cannot read English, have this manual explained fully before attempting to operate this machine.**

**DANGER:**

Sanding/finishing wood floors can create an environment that can be explosive. The following safety procedures must be adhered to:

**DANGER:**

Cigarette lighters, pilot lights and any other source of ignition can create an explosion when active during a sanding session. All sources of ignition should be extinguished or removed entirely if possible from the work area.

**DANGER:**

Work areas that are poorly ventilated can create an explosive environment when certain combustible materials are in the atmosphere, i.e., solvents, thinners, alcohol, fuels, certain finishes, wood dust and other combustible materials. Floor sanding machines can cause flammable material and vapors to burn. Read the manufacturer's label on all chemicals used to determine combustibility. Keep the work area well ventilated.

**DANGER:**

Spontaneous combustion or an explosion can occur when working with sanding dust. The sanding dust can ignite and cause injury or damage. Sanding dust should be disposed of properly. Always empty the sanding dust into a metal container that is located outside of any building(s).

**DANGER:**

Hitting a nail while sanding can cause sparks and create an explosion or fire. Always use a hammer and punch to countersink all nails before sanding floors.

**DANGER:**

Operating a machine that is not completely or fully assembled could result in injury or property damage. Do not operate this machine until it is completely assembled. Keep all fasteners tight. Keep adjustments according to machine specifications

**DANGER:**

**Do not operate with belt guard removed. Serious injury may occur.**

**DANGER:**

Electrocution could occur if the machine is used on a power circuit that repeatedly trips or is undersized. Have a licensed electrician check the fuse, circuit breaker or power supply

**DANGER:**

Electrocution could occur if maintenance and repairs are performed on a unit that is not properly disconnected from the power source. Disconnect the power supply before attempting any maintenance or service.

**DANGER:**

This tool has not been waterproofed; so do not use water on work piece surface or operate in water.

**DANGER:**

Use of this machine with a damaged power cord could result in an electrical shock. Do not use the machine if the power cord is damaged. Do not use the electrical cord to move the machine. Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.

**DANGER:**

Electrocution or injury could occur if the power cord is run over or damaged by the sander. Keep the cord free from under the machine to avoid contact with the sandpaper. Always lift the power cord over the machine.

**DANGER:**

Moving parts of this machine can cause serious injury and/or damage. Keep hands, feet, and loose clothing away from all moving parts of the sander. Disconnect machine from the power source before changing the abrasive or performing any maintenance. **Do not operate unless all covers and guards are in place.** Never leave machine unattended while motor is running or connected to power source.

- WARNING:** Failure to read and observe all safety statements found on your machine or in this Owner's Manual can result in serious injury or damage. Read and observe all safety statements. Make sure that all labels, decals, warnings, cautions, and instructions are fastened to the machine. Get new labels from your authorized US Sander distributor.
- WARNING:** Sanding dust can be airborne and can be breathed in while operating a sander. Always wear a dust mask while operating sanding equipment. Some dust created by power sanding and other construction activities contains chemicals known (to the state of California) to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:  
 Lead from lead based paints, Crystalline silica from bricks and cement and other masonry products, and Arsenic and chromium from chemically treated lumber.  
 Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals; work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.
- WARNING:** Injury to the eyes and/or body can occur if protective clothing and/or equipment is not worn while sanding. Always wear safety goggles, protective clothing, and a dust mask while performing any sanding operation.
- WARNING:** Bodily injury could occur if power is applied to the machine with the power switch already in the "ON" position. Always check to assure that the power switch is in the "OFF" position before applying power to the power cable.
- WARNING:** Any alterations or modifications of this machine could result in damage to the machine or injury to the operator or other bystanders. Alterations or modifications not authorized by the manufacturer voids any and all warranties and liabilities.
- WARNING:** Accessories must be rated at least 30% more than the speed recommended on the tool warning label. Wheels and other accessories running over the rated speed can fly apart and cause injury
- WARNING:** Check the backing pad carefully for cracks, damage, or deformity before operation. Replace cracked damaged or deformed pad immediately. Damaged rotating parts can fly off and cause injury to you or other persons.
- WARNING:** Servicing of this unit must always be referred to an authorized US Sander distributor.
- WARNING:** Pay attention that the wheel continues to rotate after the tool is switched off.
- WARNING:** **Do not leave tool running. Operate the tool only when hand-held**
- CAUTION:** Use of this machine to climb on could result in injury or damage. Do not use this machine as a step or furniture.
- CAUTION:** Serious damage to the floor can occur if the machine is left running in one spot while the sanding disc is in contact with the floor. To avoid damage to the floor, do not dwell while lowering or raising the sanding disc. Always sand with a constant motion and pressure.
- CAUTION:** Do not rest machine on sanding disc. To do so may cause a flat spot and reduce the quality of performance. Tip machine back or rest on side when not in use.
- CAUTION:** Do not sand metal surfaces. Watch out for flying sparks. Hold the tool so any sparks or debris will fly away from you and other persons or flammable materials.
- CAUTION:** Damage could occur to the machine if not properly kept in a dry building for storage. Store the machine in a dry building.
- CAUTION:** **Keep hands away from rotating parts. Use the grips provided. Hold the tool firmly.**

## SANDING CUTS AND SANDPAPER

### Initial Cut

The purpose of the initial cut is to remove old finish and gross imperfections on the floor surface. A coarse abrasive should be used. If glazing, loading, or burning takes place immediately into an initial cut, select a coarser abrasive. If this should occur during an initial cut, the abrasive has dulled and must be replaced.

### Final Cuts

The purpose of a finishing cut is to remove the scratches produced during the initial cut. Use a fine (60 -80 grit) grain abrasive. If the surface remains rough after a finishing cut, it may be necessary to use an even finer grain of abrasive (80 -100 grit). Care should be taken in selecting the grit size of the abrasive. A very fine grain will close the pores on a wood floor making admission of a stain difficult.

Grit	Use	Grit	Use
12 grit	For removing gross imperfections and restore evenness to old flooring. To remove build-up of paints and varnishes.	60 grit	For clean-up from initial cut 36 grit.
16 grit		80 grit	For final sanding of certain hardwoods. For clean-up of initial cuts (50 grit).
20 grit		100 grit	For final sanding of certain hardwoods and conifers where a smooth surface is desired.
24 grit		120 grit	For final sanding of certain conifers
30 grit	For first sanding of new flooring (maple, oak).	150 grit	For final sanding of certain conifers where a smooth surface is desired for surface roughening between coats of finish.
36 grit	For removing minor imperfections and finishes from old flooring		
40 grit	For initial cut on new flooring (oak, walnut). For removing minor imperfections and finishes from old flooring.		
50 grit	For first sanding of new flooring (cedar, pine, fir) For clean-up of 16 grit.		

## Machine Setup

1. Familiarize yourself with the machine. Read all danger, warning, and caution statements and the Owner's Manual before operating this machine. If you or your operator cannot read English, have this manual explained fully before attempting to operate this machine.
2. Remove screw and abrasive retainer. Center abrasive on backing pad and secure with abrasive retainer and screw. Use provided wrench to tighten paper screw (Figure 2)



## OPERATING INSTRUCTIONS

1. Move machine to the location of your work. Set any exposed nails with hammer and punch to avoid encounter with abrasive.

### WARNING

Bodily injury could occur if power is applied to the machine with the power switch already in the "ON" position. Always check to assure that the power switch is in the "OFF" position before applying power to the power cable.

2. Make sure the control switch is in the "Off" position then connect the supply cable to an appropriately grounded fused circuit.
3. With the machine in the reclined position firmly grasp both handles and pull the control switch to the "ON" position.
4. Gradually lower pad to surface intended for sanding. Make sure the machine is in motion while the pad is engaged with the surface to be sanded. You may use broad circular motion as you sand along the length of the surface or you may use a combination of forward and sideward motions. In time you will develop your own technique to optimize coverage. It is advisable to not add effort to the pad as this may lead to "nosing in" or "tipping" which produces grooves or lines on the surface.
5. When replacing abrasive or sanding operation is completed, return machine to reclined position, release the control switch to "Off" then disconnect the motor pigtail from the supply cable.

### DANGER:

Failure to disconnect the supply cable from machine whenever servicing, or replacing abrasive could result in electrocution or severe injury. Never leave machine unattended while the supply cable is connected.

## ROUTINE MAINTENANCE

Failure to perform maintenance at recommended intervals may void *the warranty*.

### Carbon Brushes

Have the carbon brushes replaced at least every 500 hours and more frequently under heavy use.

For more parts and information  
call US Sander at 1866 USSANDR  
1(866)-877-2637



Paper wrench DRE60

Paper Nut DRE61

Drive Belt  
For 10" 3L250  
For 13" 3L310

Handle Knob DRE20

Motor DRE50

Brush cap DREM51

Set of brushes DREM50

Variable Speed Switch DRE53

Power cord DREM17

Trigger Switch DREM52

\*Belt Cover  
For 10" # DRE40-10  
For 13" # DRE40-13

Caster DRE05

Vacuum Flange DRE41

Motor pulley DRE11

Side Handle DREM54

Paper Bolt  
For 7" DRE63  
For 5" DRE64

\*Do not operate with belt guard removed. Serious injury may occur.

### DANGER

