

EZ CUT_{.com}

PIONEER MANUFACTURER
CARPET CUTTING MACHINE

Operating manual Rev4.2

MK-6

Best seller in its class



SERIAL # :

Read these instructions carefully and thoroughly as to ensure that you are familiar with the machine's features, general operating functions and the safety and maintenance requirements.

Only authorized personnel who are familiar with the machine and its operation should use it. Never allow children near the machine. Keep the area of operation clear of any and all potential hazards.

If assistance is required or if any of the following procedures are unclear, please do not hesitate to contact an E-Z CUT representative directly at **1-800-661-5156**.

Take your time, be patient, and enjoy the benefits of this machine for many years to come.

Content

- 1** Unload & inspect the machine
 - Put in position
 - Levelling the machine
 - Deploy the Laser (infrared sensors)
- 2 & 3** Electrical connection and machine setup
- 4** Access Codes
- 5** Perform Measure Test
 - Trouble shooting
 - Able/Disable Wrap Feature
 - Calibrate Touch Screen
 - Imperial/Metric
 - Machine information
- 6** Change manager pass code
 - Modify auto shut-off
- 7** Clock
 - Reset Scale Factors
- 8** Operating the wrap feature
- 9** Starting the roll up process
 - Rolling up the carpet straight
- 10** Cutting the carpet
 - Wrapping the roll
- 11** Pneumatic shuttle control
 - Important safety and maintenance tips
- 12** Routine maintenance schedule



■ Unload & inspect the machine

When the machine is unloaded from the truck and already in your warehouse, do a full inspection to ensure that no damage has occurred during the shipping process. (if any damage has occurred, please contact our office at **1-800-661-5156**).

Using the Lifting Bars, raise each corner of the machine onto its Caster Wheels. Once all 4 wheels are engaged, you can now move the machine to the desired position for operation on your warehouse floor. The machine should be located in a dry location and operated at a comfortable temperature. Extreme heat and humidity or cold temperatures could lead to electronic problems or even damage to the electronics on your machine. When you have located the machine to your desired position, use the Lifting Bars to lower the machine back down to its Legs so as to prevent any movement during actual operation.

NOTE : When you are ready to lower the machine down onto its wheels, be sure each wheel is facing or is swung inwards to the middle of the machine and is not resting or jammed facing the outside edge of the machine. This will result in excess stress on the wheel itself and cause damage in a very short time. Also, do not try to raise or lower the machine when you have a roll of carpet or vinyl on one or both cradles.

■ Positioning and set up

Place the machine in a secured area, with the ability to load from the back and enough room (at least 7 feet) to unload the cut and roll carpet onto the floor or staging cart.

■ Levelling the machine

Using a level at multiple points, ensure the machine is level and flush front and back, side to side (the legs can be adjusted)

■ Deploy the Laser (infrared sensors)

You'll need a 5/32 Hex Key and 7/16 wrench. Remove the bottom screw and loosen the top one. Insert the bottom screw through the bracket, and set it up at the desired height. Start with the back bracket, then the front, fine tune the adjustment till the green light only is illuminated (the orange light indicates misalignment or that the beam is interfered). For more detailed instructions, we have a video available :

<https://www.youtube.com/watch?v=rf0vDmxv1ng>



■ Electrical connection and machine setup

Have a qualified electrician install a 230V single phase receptacle / 60 Hz / 20 Amp, or 230V (single phase) / 50 Hz / 20 Amp as required. Your MK6 is equipped with 25 feet electrical cord. Your electrician should install a plug at your receptacle.

air requirements: minimum specifications for a compressor 120 Psi, 5-8 CFM, 10 Gallon Tank.

Once the machine has been powered up the software will load automatically and the following screen will appear.

1. Touch **"ENTER"** in center of screen to activate the program

2. Four primary access levels will appear:

Operator / Manager / Service / Exit

3. Operator (**F1**) is to be selected when performing:

Cuts, measuring or wrapping product and
calibrating new products.

3b) when entering pass code touch **"PASS CODE"**

and the key pad will appear.

- Touch BSP to clear screen
- Enter factory default pass code (1111)
- Touch return on key pad
- Press ENTER (F1) on touch panel



4. Once in the cut screen the 4 function keys at the bottom of the screen will appear as :

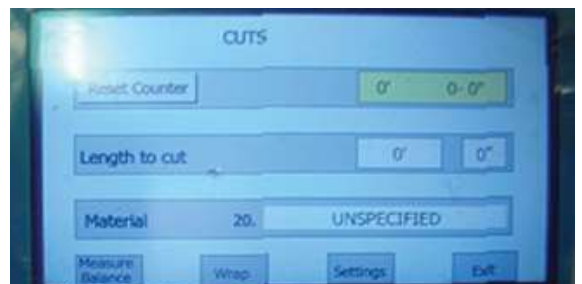
F1- Measure balance

F2- Wrap

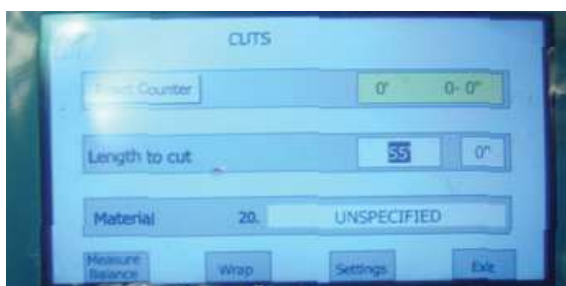
F3- Settings

F4- Exit

To enter cut size touch the lighted box with the foot symbol and a key pad will appear.



5. Enter the number of feet* required and touch the (RETURN) on the numerical key pad



6. Touch the lightened box with the inches* symbol and a key pad will appear



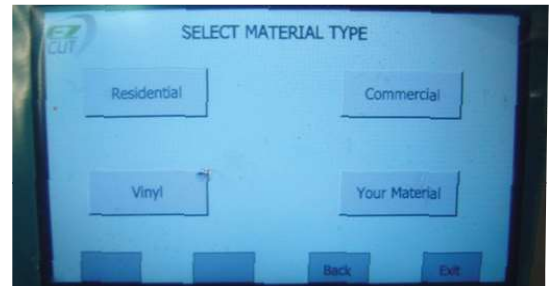
7. Enter the number of inches / Centimeters required and touch the (RETURN) on the numerical key

8. Touch the lightened box on the MATERIAL line, a selection of material types will appear:

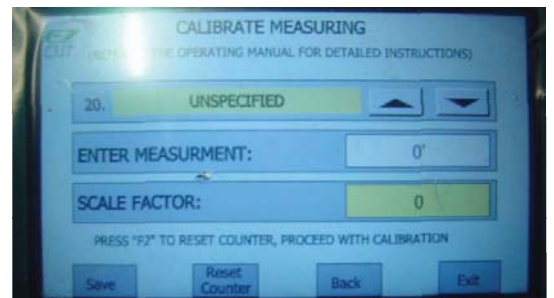
Residential carpet, commercial carpet, vinyl, or your material. Select one.

Material Types:

- **Residential:** Refers to residential carpets such as 40 OZ cut pile carpeting or heavier.
- **Commercial:** Refers to looped commercial carpets or short dense cut pile carpets.
- **Vinyl:** Refers to ALL vinyl rolled goods.
- **Your material:** Refers to up to 17 pre-programmed products or rolled goods that may be used on a regular basis. The scale factors are programmed by the operator to ensure exact measurements.



Calibrate Rolled Goods (**Your Material**): This feature allows you to calibrate and store up to seventeen specific carpet types of your choosing. This ensures exact measurements on the calibrated rolled goods. This "Programmable Option" is in addition to the three factory presets (residential, commercial and vinyl)



Prepare the type of carpet you would like to calibrate:

Measure out AT LEAST A 35' / 10.66m piece of carpet on the floor and make a mark at exactly 30' / 9.14m

1. In the "Cut Screen" on material type select "unspecified"
2. Select "add new/delete"
3. Touch "unspecified" the key pad will appear
4. Type in the name of the carpet
5. Touch "return"
6. Touch "F1" or "cuts"
7. Select "settings"
8. Select "calibrate"
9. Advance rolled goods to the center of the cutting track ensuring that the side of the carpet runs parallel to the lines on the cutting table to prevent coning
10. Lower the tensioner arm down onto the material.
11. Reset counter "F2"

Note: Be sure the tensioner arm is lowered back down onto the material and that the counter has been rest.

12. Run the carpet through the machine stopping exactly at our 30' / 9.14m mark (the 30' / 9.14m mark should be in the center of the cutting track)
13. Select "F1" or "save"



■ Access Codes:

OPERATOR (F1) enables the following functions:

F1 / MEASURE BALANCE:

This feature will automatically add 6" / 15.24 cm to allow for the material between the measuring wheel and the cutting area

1. Advance rolled goods to the center of the cutting track ensuring that the side of the carpet runs parallel to the lines on the cutting table to prevent coning
2. Select material type
3. Lower the tensioner arm down onto the material.
4. Press (RESET) to reset the counter to zero

Note: Be sure the tensioner arm is lowered back down onto the material and that the counter has been rest.

5. select a speed (we suggest using the slow speed and increasing the speed as you get more proficient with the machine)
6. to activate the motors break the beam or press the jog button

F2 / WRAP:

This feature allows control of the roll-up (right side) rollers of the machine to allow hands/feet free operation during the wrapping operation. By breaking the beam momentarily the rollers will run continuously or until you break the beam one more time (this feature can be activated/deactivated through the "Manager" access level)

F3 / SETTINGS:

This feature will enable the operator to:

- Change operator pass code
- Perform measure test
- Imperial/Metric conversion
- Calibrate rolled goods (your material)
- Trouble shoot
- Able/Disable the wrap feature
- Calibrate the touch screen

CHANGE OPERATOR PASS CODE:

This safety feature allows the operator to change the pass code in order to prevent unauthorized use of the machine

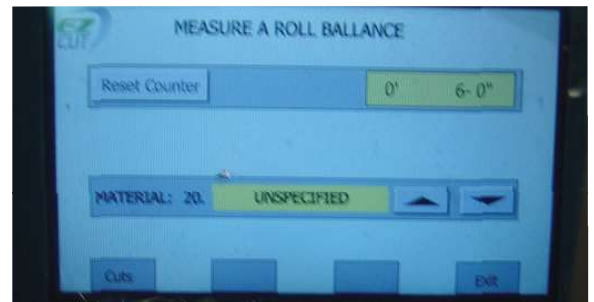
- Once in Operator mode select settings
- Select change operator pass code on touch screen
- Touch highlighted pass code on touch screen
- Touch BSP to clear old code on touch screen
- Touch return on touch screen
- Press F1 or save on touch panel



■ Perform Measure Test:

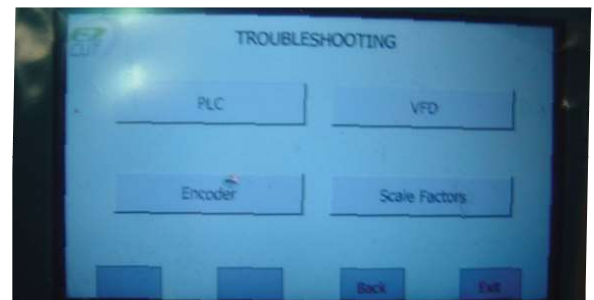
This feature allows the operator to ensure that the machine is properly calibrated and measuring correctly

- Once in Operator mode select settings
- Select Measure Test on the touch screen
- 3 selections will appear: Encoder test 1, Encoder test 2, Material Test
- Once a selection has been made further instructions will appear on the screen



■ Trouble shooting:

This feature should be used only as instructed by E-Z Cut



■ Able/Disable Wrap Feature:

This feature will enable/disable the wrap feature

■ Calibrate Touch Screen:

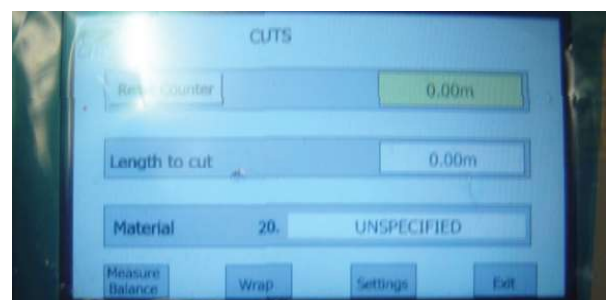
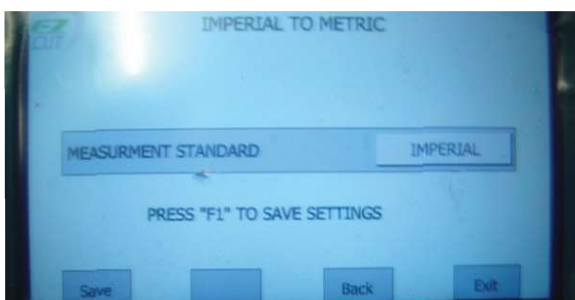
This feature has two functions :

- The first time is a time period allowing the operator to wipe the screen without changing any of the parameters
- The second function is to calibrate the sensitivity of the touch screen (the instructions will appear on the screen)



■ Imperial/Metric:

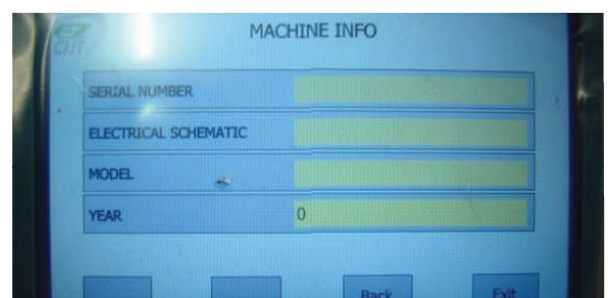
This feature will allow the operator to change from metric to imperial measurements



■ Machine information:

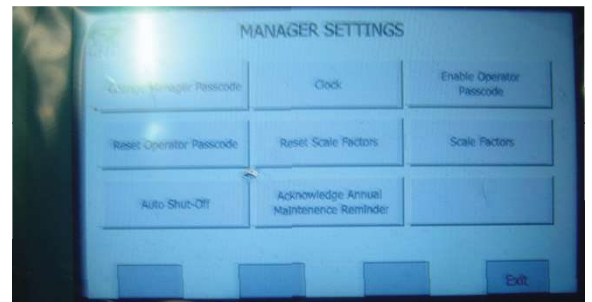
This quick reference feature provides the operator with the machine serial number, model number, year and electrical schematic number

F4 / EXIT: This feature will exit the program and bring you back to the main screen



■ **MANAGER (F2) enable the following options :**

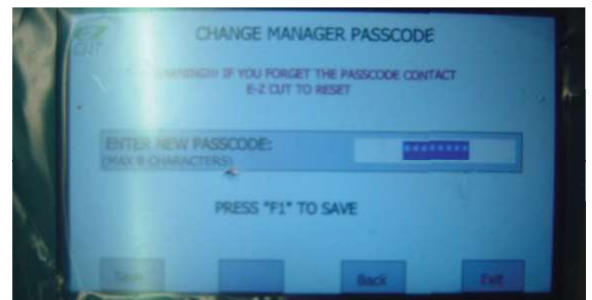
- Change manager pass code
- Able/Disable operator pass code
- Reset operator pass code
- Modify auto shut-off from 1-240 minutes
- Modify time and date
- Reset scale factors to original factory setting
- View and modify scale factors



■ **Change manager pass code:**

This safety feature allows the manager to change the pass code in order to prevent unauthorized use of the machine

- Once in manager mode select settings
- Select change manager pass code on touch screen
- Touch highlighted pass code on touch screen
- Touch BSP to clear old code on touch screen
- Enter new code on touch screen (up to 8 characters)
- Touch return on touch screen
- Press F1 or Save on touch panel

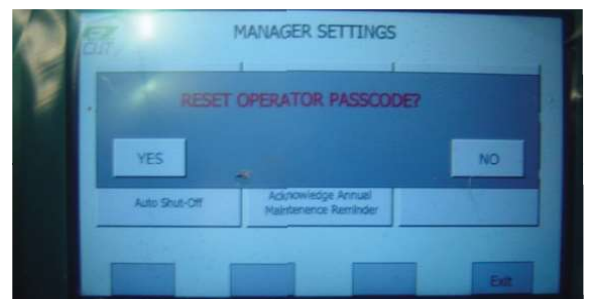


Note: Should the manager code be forgotten contact EZ-Cut

Able/Disable operator pass code:

This safety feature allows the manager to engage or disengage the operator pass code in order to prevent unauthorized use of the machine

- Once in manager mode select settings
- Select Able/Disable operator pass code
- This function will toggle between able and disable



Reset operator pass code:

This feature will reset the operator pass code back to the factory default of "1111"

- Touch Reset operator pass code and a selection of yes or no will appear on the touch screen

■ **Modify auto shut-off:**

This safety feature will activate the time out period from 1-240 minutes. Once set the carpet and vinyl cutting machine will go back to sleep mode and will require the operator to sign back on

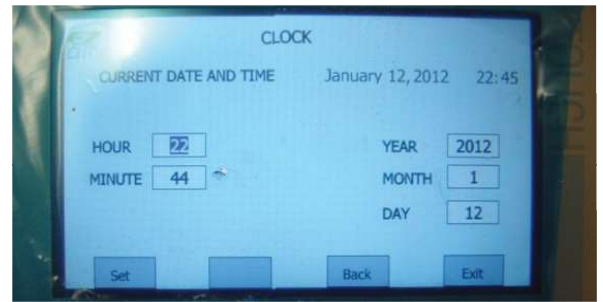
- Once in manager mode select settings
- Select auto shut-off
- Touch the minutes displayed on the touch panel and a key pad will appear
- Enter the new time and touch the return key
- Press F1 or save on the touch panel



■ Clock:

This feature will allow the manager to update the date and time

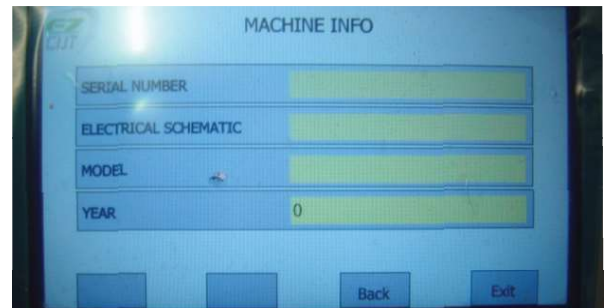
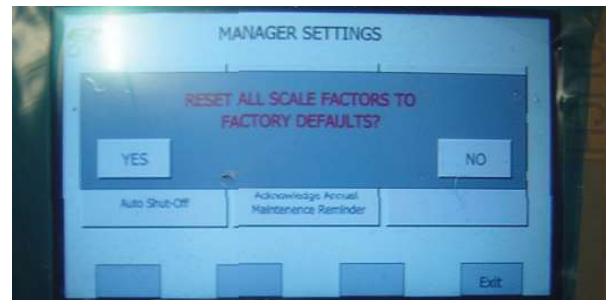
- Once in manager mode, select settings
- Select clock
- Touch the hours, minutes, day, month and year
- A key pad will appear for each. Make changes as required
- Press **F1** or set on the touch panel
- Press **F3** or back on the touch panel to return to the main menu



■ Reset Scale Factors:

This feature will allow the manager to reset the scale factors of the original factory settings

- Once in manager mode select settings
- Reset Scale Factors
- Yes to reset settings or No to maintain existing settings



Machine Information:

This quick reference feature provides the operator with the machine serial number, model number, year, and electrical schematic number

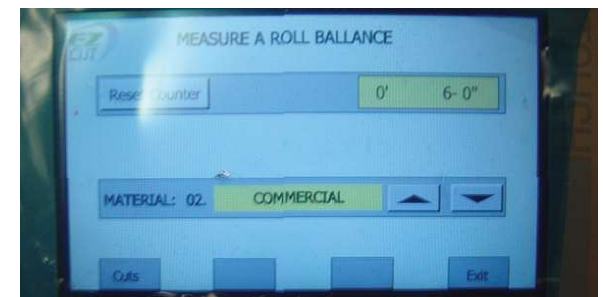
- **F4 / EXIT:** This feature will exit the program and return to the main screen
- **F3 / SERVICE:** Reserved for E-Z Cut technicians only
- **F1 / Operating the measure balance feature**

Once in the cut screen the four function keys at the bottom of the screen will appear as:

- **F1:** Measure Balance
- **F2:** Wrap
- **F3:** Settings
- **F4:** Exit

Select **F1- Measure Balance**

- 1- Select material type
- 2- Advance rolled goods to the cutting track ensuring that the side of the carpet runs parallel to the lines on the cutting table to prevent coning
- 3- Press RESET to reset the counter to zero



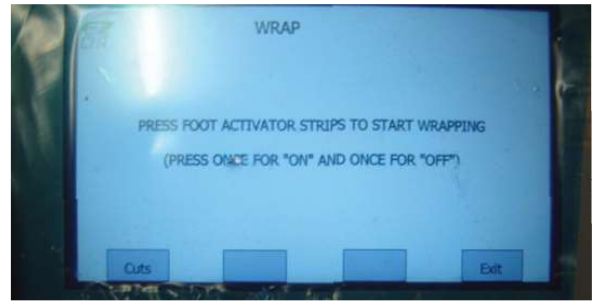
Note: Be sure the tensioner arm is lowered back down onto the material



■ F2 / Operating the wrap feature

Once in the cut screen the 4 function keys at the bottom of the screen will appear as:

- **F1**: Measure BalanceF
- **F2**: Wrap
- **F3**: Settings
- **F4**: Exit

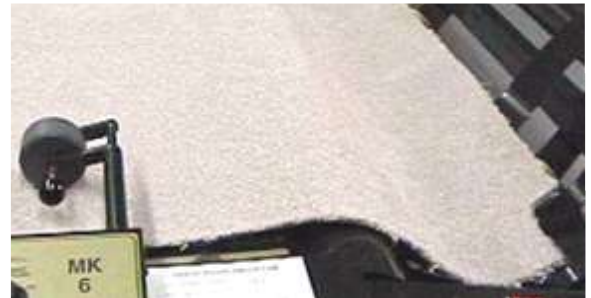


Select **F2 (Wrap)**

- The cutting machine will now be in wrap mode. Breaking the beam will activate the rollers and a 2nd time when you break the beam, it will stop the rollers.

■ Starting the roll up process

With both Rollers in the FWD position and the Counter Weight Arm in the Down position, advance the carpet by breaking the beam (infrared sensor) or Jog Button as well as assisting the carpet by hand until it is into the Right Hand Side Cradle and stop it's progress when it advances just past the middle of the Right Hand Side Cradle (approx. 4 to 6 inches). Although it is not necessary, should you require a core, it can be placed on top of the carpet in the Right Hand Side Cradle at this time.



■ Rolling up the carpet

- For starters, you are best to keep the machine in Low speed until you get more comfortable and familiar with how the machine works.
- With both rollers in FWD, raise the Right Hand Side Cradle up and curl itself over the portion of the carpet sitting in the cradle.
- Break the beam or press the Jog Button to advance the carpet further into the Right Hand Side Cradle. You will notice that the carpet will curl over and start to re-roll itself. At the same time, apply a small amount of pressure by holding the Cradle Handle in place over the carpet.
- Once you have rolled up approximately 3 to 5 feet / 0.91 to 1.52 m (3 to 5 turns), you can pull the Right Hand Side Cradle back to its Normal locked position.
- You can now increase the speed to Medium or High, whatever you are more comfortable with at this time.



NOTES:

Once you practice more and become more familiar with the machine, these steps will become more integrated and much easier to perform.

- If the carpet does not seem to want to roll up in the Right Hand Side Cradle immediately, just stop the process, reverse the carpet back a little and start over. You may have to jog/bounce the Right Hand Side Cradle Handle a little bit during the roll-up to assist in getting the carpet started. Also, if you experience "buckling" of the carpet during this process, just turn the Left Hand Side Rollers to OFF for a split-second and then back to FWD once the buckling is removed. Be Patient It Will Work!

- Should you prefer a more loose roll-up of your carpet, just pull the Right Hand Side Cradle Handle back earlier than after 3 to 5 turns or don't even engage the Right Hand Side Cradle at the start.

Experiment to see what works best for you.

IMPORTANT NOTE: IF YOU CONTINUE THE ROLL-UP PROCEDURE BY PRESSING THE JOG BUTTON, THE MACHINE WILL NOT STOP AUTOMATICALLY AT YOUR PRE-SET LENGTH.

Always load the carpet from the back

Place the roll on the Left Hand Side Cradle and ensure that the "Feed Edge" is coming from the Bottom towards the Counter with the "Pile" facing Up. Whenever possible load rolls from the rear of the machine to avoid damaging the control panel. **Never measure with the "Pile" facing Down as this will result in inaccurate readings.** For best results turn the Left Hand Side Rollers in Reverse (REV), by breaking the beam (infrared sensor) or Jog Button, and allow the roll to rotate a few turns until it tightens.

■ Rolling up the carpet straight

As long as your floor and machine are level and the main roll on the Left Hand Side Cradle is rolled up relatively straight, then the carpet will roll-up fairly straight on the Right Hand Side. If any of these three factors do not apply, then they should be corrected immediately. Minor coning or telescoping problems can be overcome quite easily. Have the operator move along the Right Hand Side of the machine near the front corner. As the carpet continues to come across and roll-up, the operator can adjust the carpet by hand in the cradle much like he would if he were rolling it up on the floor. This procedure eliminates any serious coning and as long as the carpet rolls up relatively straight on the Right Hand Side, your cut will be straight and square.



■ AUTOMATIC SLOW DOWN

Your machine has an Automatic Slow Down Mode programmed into the Counter. If you have the machine programmed for 20' / 6.09 m, the machine will automatically slow down to Low speed at approximately 18'6" / 5.66 m and will stop automatically at 20' / 6.09 m.

NOTE: If you wish to give a couple of extra inches to the programmed cut, you can do so by pressing the Jog Button.

PRIOR TO CUTTING

Prior to making your cut, there may be a slight buckle of carpet on the table. To eliminate this, turn the Right Hand Side Rollers into FWD and the Left Hand Side Rollers in REV, and then tap the Jog Button.

■ CUTTING THE CARPET

- Turn Both Rollers Switches to the "OFF" positions - **VERY IMPORTANT!**
- Clear the area of any potential hazards (i.e. someone may be leaning on the machine or have their hand in the path of the Cutting Bar).
- Turn and hold the Cutting Bar's Toggle Switch to FWD.
- Once the Cutter has completed the cut, release the Toggle Switch.
- Because it is a Two-Way Cutter, you do not have to return the Cutting Bar back to the home end of the machine for the next cut.



NOTE: Use extreme caution and common sense when activating the cutting bar. Should you need to stop the cutting bar's progress at any time during a cut, just release the toggle switch immediately.

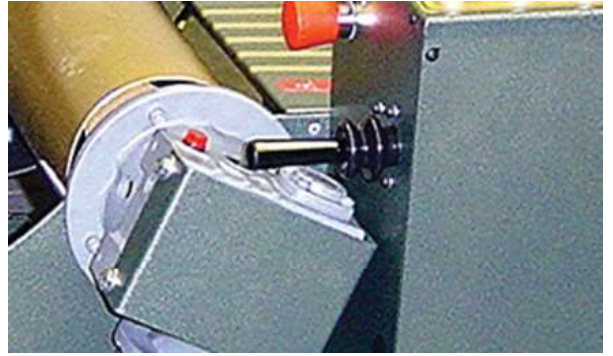
■ WRAPPING THE ROLLS

To wrap your cut piece, turn the Right Hand Side Rollers to FWD and the Left Hand Side Rollers to OFF. Secure your stretch film or plastic under the edge of the carpet, break the beam (infrared sensor) on the Right Hand Side of the machine, and wrap the roll accordingly. The same can be done to the balance roll on the Left Hand Side by turning the Left Hand Side Rollers in REV and the Right Hand Side Rollers to off.



■ Pneumatic Shuttle Control

- Your machine is equipped with a "Pneumatic Shuttle Control" feature. You will notice an extra Toggle Switch located on the left side of the Control Panel near the Emergency Stop Button.
- When activated, this switch will engage the pneumatically controlled Shuttle Arms located in the middle of the Load Side Cradle. This feature will actually "twist" the roll of carpet that is in the Load Side Cradle so as to shift it from the back of the machine towards the front, or vice-versa, depending on which direction you move the toggle switch. This process will aid the roll-up of your carpet in the event that you have a roll that tends to walk or telescope.



NOTES:

- **Once you learn this feature, you will notice that you do not have to activate this switch for a very long time in order to cause the roll to shift or move in the direction desired.**
- **Practice with this feature until you become accustomed to how it works prior to employing it during a measure or cut.**
- **Do not hold and activate this switch for an excessive length of time, especially on larger rolls, as it can cause damage to your machine's motors and drive system.**

■ Important safety and maintenance tips

- Use extreme caution and care when operating the machine at all times. Keep the operating area clear of all unauthorized personnel and potential hazards. Your "e-z cut" is a machine not a toy, never allow children near it!
- When performing any maintenance work on the machine, always disconnect the machine from both its power source and air supply.
- Always make sure the machine is level during operation. An unlevel machine may cause coning and walking of the material, and damage to the machine may occur.
- Do not raise the machine onto its wheels or move it while loaded, damage to the machine may occur.
- Be sure to use extra care and caution when loading or unloading rolls on the left hand side cradle to avoid damaging the shuttle located in the middle of the cradle.
- When handling larger or heavier rolls, do not use "high" speed. Only operate in the "low" or "medium" speeds.
- When the machine is not in use, switch both rollers to "off" and engage your "emergency stop button". Disconnect the machine from its power source when left overnight.
- In the event of an electrical storm, the machine should be unplugged to prevent potential damage to the on-board electronic equipment.
- When the machine is not in use, always keep the "counter weight arm" (located directly above the counting wheel) in the "up" position.
- Think before you act and use common sense! should you be unsure with any of the machine's operating features, call our office directly at toll free 1-800-661-5156.

■ Routine maintenance Schedule

DAILY:

- Check for any oil leakage from the gearboxes. If there is a leakage, discontinue the use of the machine and call E-Z CUT immediately
- Clean out floor covering residue, fibres, and dust build-up from cutting track and surface of machine.
- Ensure that the 2 O-rings on the Counting Wheel are in good condition and that the Top Pressure Wheel is putting good downward pressure on the Counting Wheel.

BI-WEEKLY:

- Clean Under Front and Back Cutting Track Cover Plates - remove the cover plates and clean out floor covering residue, fibres, and dust build-up.
- Check that the screws that secure the Bladeholder to its base are always snug.

■ Schedule A maintenance (Perform Schedule A Maintenance after the first 3 and 6 months of operation and then every 6 months thereafter):

- Use the 1/8-inch and 5/32-inch Set Screw Wrenches (found in the back of this manual) to check that all visible Set Screws are tight. Pay particular attention to each Roller Bearing and each Gearbox Shaft.
- Check all Bearing Holder Bolts and Nuts.
- De-grease Cradle Locking Positions on Roll-Up side.
- Grease all 4 Caster Wheels.
- If the Cutter makes a vibrating (humming) sound when running lightly lubricate the Cutting Bar Cable with a water-based lubricant such as WD-40. Spray the Cable at the top of the middle pulley just under the cutting track. Run the Cutter back and forth a few times to work the lubricant in and then wipe off any excess.

■ Schedule B maintenance (Perform Schedule B Maintenance yearly):

- Change the oil in the Gearbox.
- Check the Cutter's Cable tension by first positioning the Cutting Bar at the far end of the machine and removing the top cover panel at the front of the machine. Press down on the portion of Cable that is just past the front pulley. There should be about .5" / 1.27 cm to 1" / 2.54 cm of 'play' in the Cable. If there is more 'play' in the Cable or it appears very loose, contact an E-Z CUT representative immediately.

NOTES:

- In order to maintain your machine's optimum performance and to ensure any potential machine problems are covered under the "E-Z CUT WARRANTY", the above procedures must be followed and adhered to at all times.
- **The Roller Bearings are factory greased and do not require greasing.**



PIONEER MANUFACTURER
CARPET CUTTING MACHINE

**TIME SAVER
COSTS SAVER
CUSTOMIZABLE**

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