

**E-Z CUT INC.**  
**OPERATOR'S MANUAL**  
**MODEL MK-II**

Dear Customer,

Congratulations on the purchase of your E-Z Cut carpet and vinyl cutting system. This E-Z Cut machine has been carefully designed and constructed to provide you with many years of dependable service, and has been built to meet or exceed current CSA standards. With proper care in operating and maintenance, this machine will ensure that all your cut lengths and orders are processed more efficiently.

To ensure yourself of the utmost value and performance from your purchase, please read this manual carefully to be sure that your machine is operated correctly. Be thorough when going through the instructions so that you are aware of the exact operation of all controls and procedures prior to employing the machine.

This manual provides you with step-by-step operation, normal care, troubleshooting, and adjustment procedures for your cutting machine. However, if help is needed or if any of these procedures are unclear, please do not hesitate to contact us at E-Z Cut Inc.

**E-Z CUT INC.**

# **SAFETY RULES**

## **General**

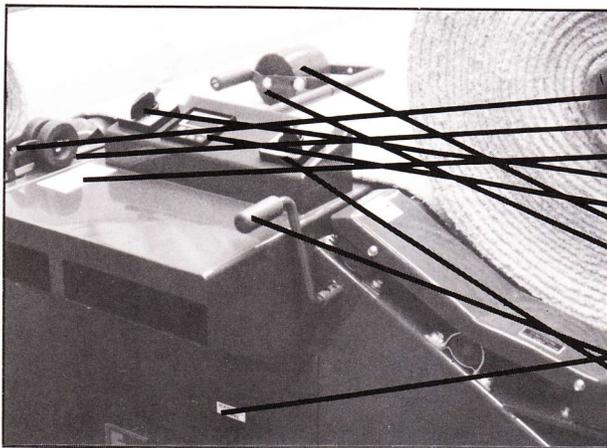
1. Read the operator's manual carefully and ensure that you are familiar with the controls and the proper use of the equipment.
2. Never allow children to operate the machine, and only properly trained personnel who are familiar with the machine should use it.
3. Keep the area of operation clear of all persons and potential hazards.

## **OPERATING PROCEDURES**

The following is the cutting machine's operating procedures. If you experience any difficulties or problems, please refer to the troubleshooting chart at the back of this manual before proceeding any further.

The procedures in this section are set up for a normal sequence of operations. The arrangement is intended primarily to acquaint you with the fundamental operating procedures to ensure the safe and efficient operation of your cutting machine.

**WARNING:** An extension cord, model no. 14/2 GA, is provided with your cutting machine. Should it become damaged or need replacement, be sure that the same model type is used in its place, as the motor could be damaged if an improper extension cord is employed.



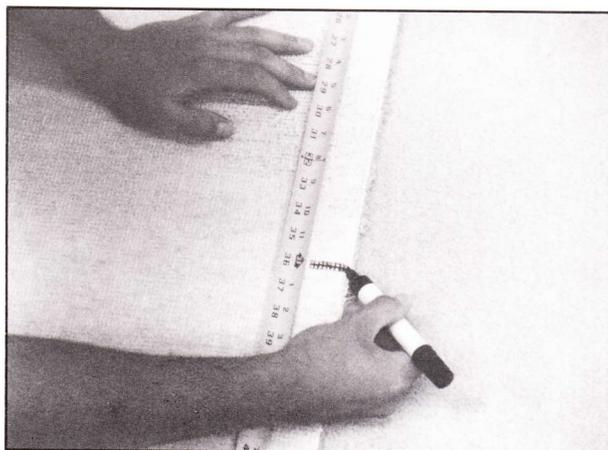
## MAIN OPERATING CONTROLS

- BLADE HOLDER
- CUTTING TRACK
- CONVERSION TABLE
- CUTTING BLADE SWITCH
- PROGRAMMABLE COUNTER
- COUNTER WEIGHT
- COUNTER ROLLER (UNDER COUNTER WEIGHT)
- REVERSE ROLL EXCHANGE
- RIGHT CLUTCH HANDLE
- FORWARD/REVERSE SWITCH

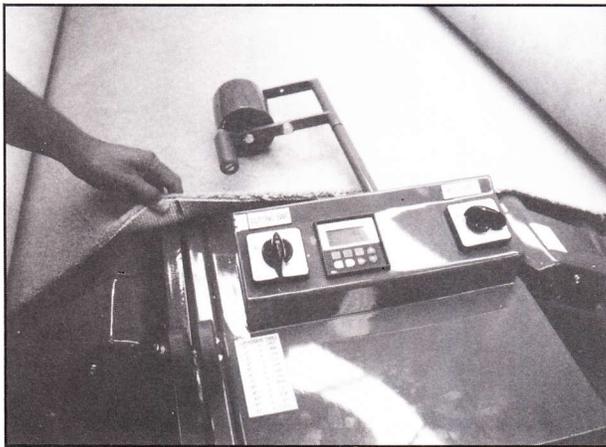
Once the machine has arrived and crating has been removed, give your machine a complete wiping and dusting to remove any pieces of plastic that still might remain after uncrating.



Ensure foot pedal/bars are properly installed. Plug the machine into the power source and familiarize yourself with the various components and switches at the control end of the machine. Experiment with these controls before loading on a roll so you become better acquainted with the machine and its capabilities.



Prior to loading the machine, roll out a piece of carpet approximately 20 to 25 feet long, and measure its exact length. Using a marker or pen, make a mark on the carpet's backing every three feet. Roll up the carpet and place it on the right side cradle (loading side).

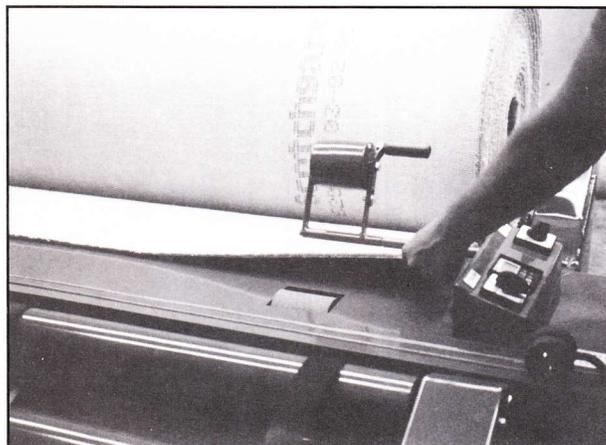


**NOTE:** This will allow you to detect any COUNTER discrepancies (if any) when you begin to roll up and measure your carpet. If you stop the machine every three feet as indicated by the COUNTER, the mark you made on the backing should be lined up with the CUTTING TRACK.

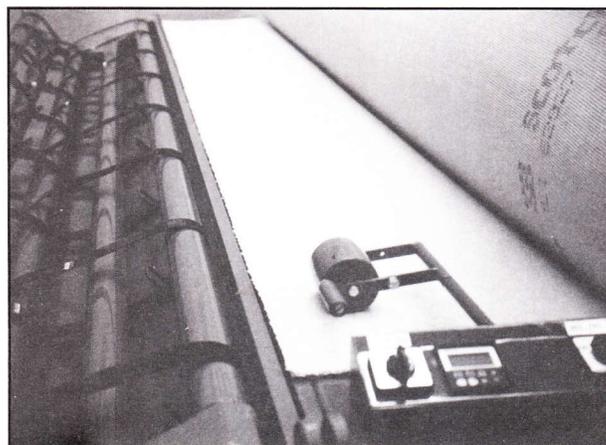
**OKAY:** Now you are ready for your first test. Don't expect to be an expert after this initial attempt, as it takes patience and practice just like anything else. One full hour of experimentation is recommended for all users in order to get "the hang" of the machine, and a better feel for the foot pedals.

When you place the roll on the machine, ensure that the feed is coming from the bottom towards the COUNTER. Advance the carpet forward with the FORWARD/ REVERSE SWITCH.

**NOTE:** For best results, the roll of carpet should be rolled up fairly tight. To tighten a loose roll of carpet, roll it in REVERSE for two or three full rotations until it tightens up.



As the carpet rolls toward the left side cradle, raise the COUNTER WEIGHT and guide the carpet underneath it.



Stop the carpet at the edge of the cutting track. Gently lower the COUNTER WEIGHT back down onto the carpet.



## PROGRAMMING THE ELECTRONIC COUNTER

With the edge of the carpet flush along the CUTTING TRACK, you are now ready for the counting and rolling up process to begin. To program your COUNTER to the desired length, please adhere to the following steps:

- 1) Press the “+” or “-” buttons until you arrive at the “PI” screen. Once at the “PI” screen, press the “RST CLR” button to clear the screen.
- 2) The top row will indicate the length of flooring that is being measured and rolled up. The bottom row is where you program the desired length to be measured and rolled up.

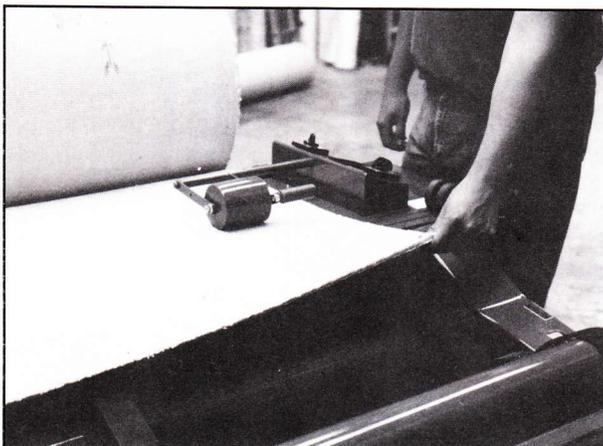
**NOTE:** Due to the momentum of the flooring as it is being rolled up, an extra TWO INCHES are inadvertently measured since the machine does not stop instantly once the programmed length is reached. Therefore, you must program your counter 0.17 less than the desired length to compensate for the extra two inches. (Please refer to the CONVERSION TABLE on the control panel for future conversions).

Example: Desired length (row 1) = 20.00 ft  
 Programmed length (row 2) = 20 - 0.17  
 = 19.83

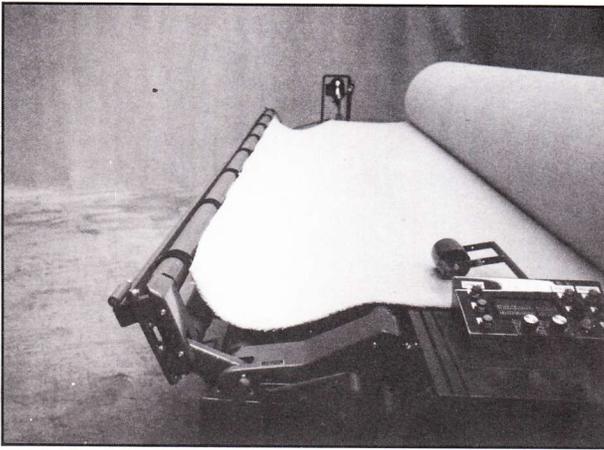
If the exact desired length is not reached with the aid of your programmed length, you can manually adjust it using the FORWARD/REVERSE SWITCH until the exact length is showing on the top row.

- 3) Press the “SEL” button and you will notice that the first “0” on the bottom will begin to flash.
- 4) Press the “+” or “-” buttons to reach the desired value at that digit position. Once you have attained your desired value at that specific position, just press the “SEL” button and it will advance you to the next digit position.
- 5) When you have reached your desired values at each position via the “SEL” and “+ / -” buttons, press “ENT” to lock in this desired length. If you wish to make any changes, press the “SEL” button and follow Step #4 again.

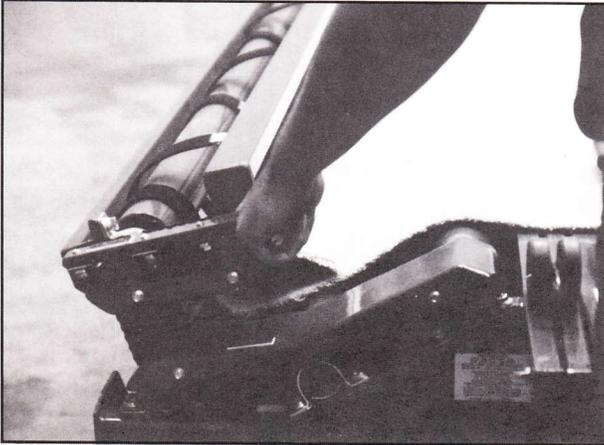
**NOTE:** Be sure to follow these steps for each and every measurement and cut.



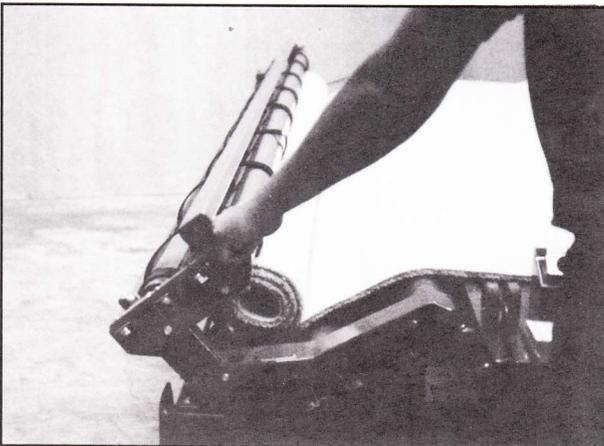
As you feed the flooring through, gently pull the edge of the carpet with your left hand.



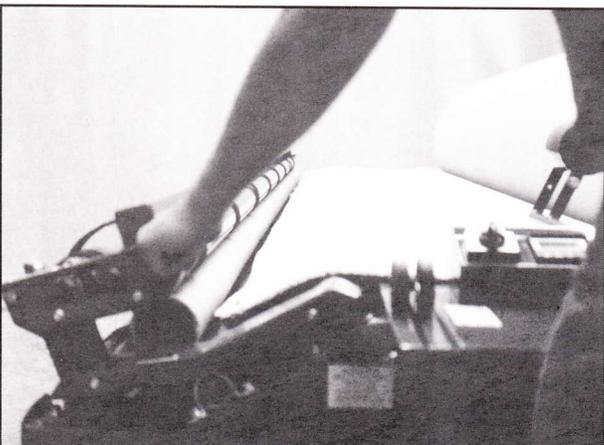
Guide the flooring until it is flush with the centre of the last (top) roller on the left side cradle, and stop the flow at this point.



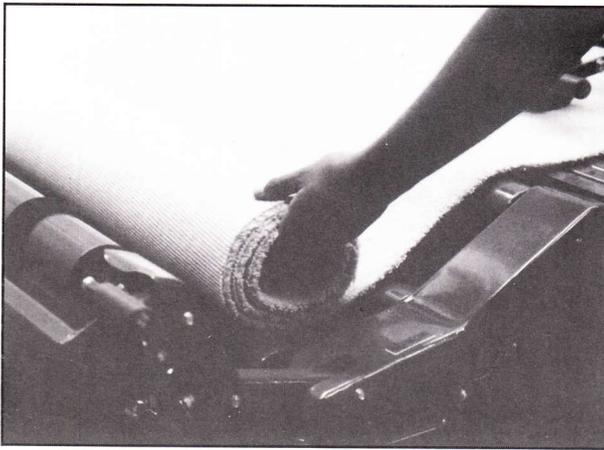
To get the roll started, curl up the left side cradle by pulling the handle towards you until the cradle has fully enclosed the carpet. (Note: You don't have to exert an extreme amount of pressure — let the machine do the work.)



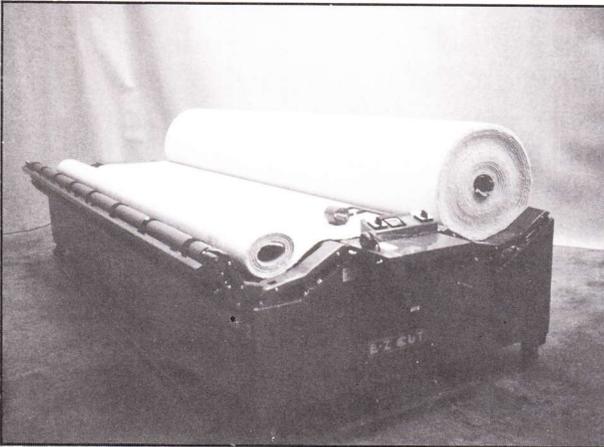
With the cradle in the curled-up position, step on the foot pedal again to begin rolling up the carpet. Hold the cradle in place for the first two or three feet. Now open the cradle to the half-closed position and hold it there for another two or three feet. With five or six feet rolled up, you can now return the cradle to its original position.



**NOTE:** The same process can be followed by using a cardboard core as well.

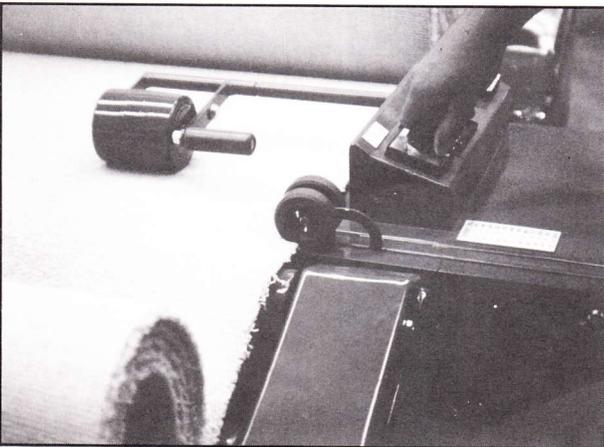


To prevent telescoping, adjust carpet manually.

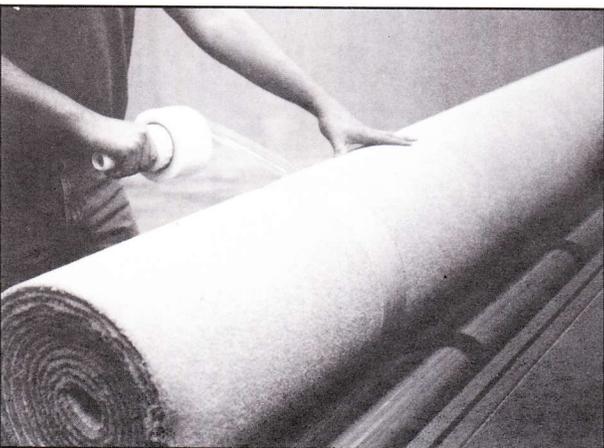


Keep the foot pedal depressed, as the motor will stop once the programmed length has been reached. The motor will cease for approximately 1.5 seconds, at which time it will start the rollers again. This should give you plenty of time to remove your foot from the pedal. (Note: If, by mistake, you leave your foot on the pedal and the rollers start up again, just reverse the rollers back to the desired length.)

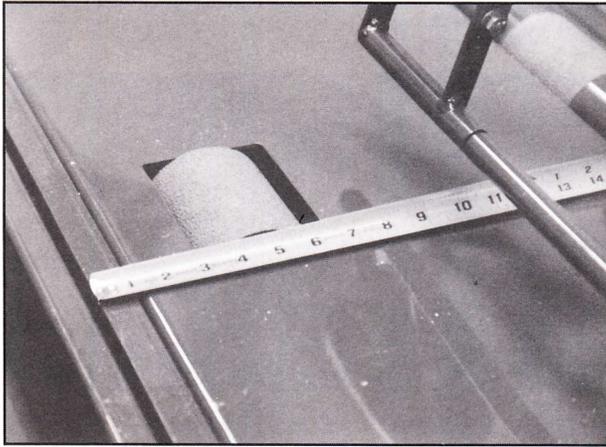
Now that the programmed length has been reached, you can disengage the right side cradle by pulling the CLUTCH HANDLE upward to the DISENGAGE position.



To cut the flooring, engage the CUTTING BLADE by turning the CUTTING BLADE switch to the FORWARD position. Once the flooring has been fully cut, return the blade by turning the switch to REVERSE.



To wrap or tape flooring, place stretchfilm under the edge of flooring that has been cut and rolled up. Depress foot bar along left side and let stretchfilm wrap itself around the roll of flooring. Three or four full turns should be sufficient. This same procedure can be done with the roll on the right side cradle.



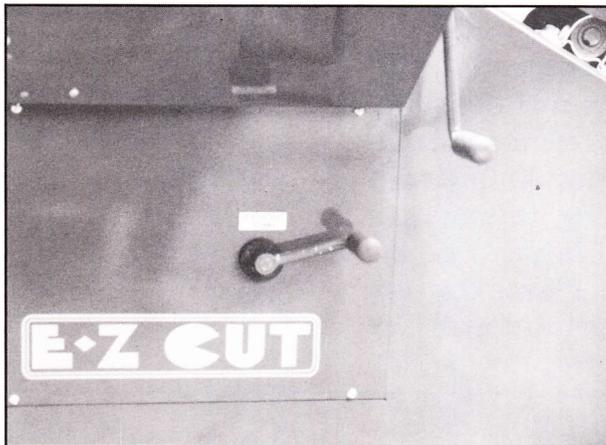
**NOTE:** If you want to remeasure a full or partial roll, you must add 4" to the measurement shown on the COUNTER. This compensates for the distance (4") between the COUNTER ROLLER and the CUTTING TRACK.

## SUMMARY

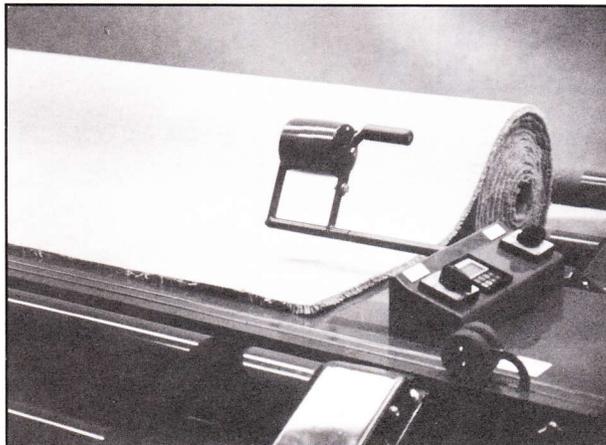
Once again, take your time and experiment with the machine until you feel comfortable operating it. Try rolling up and measuring different lengths of carpet, as well as rolls of vinyl flooring.

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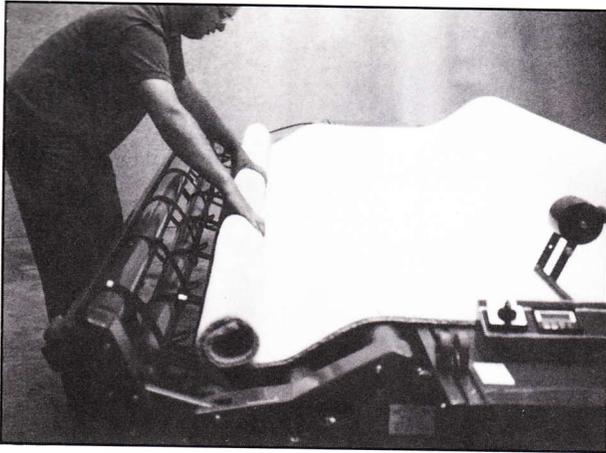
## REVERSE ROLL PROCEDURE



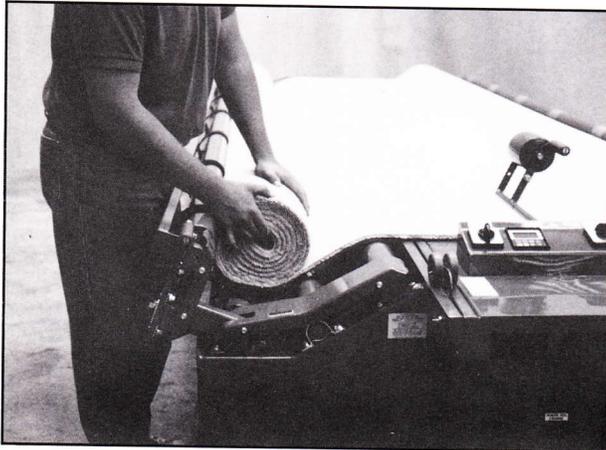
To reverse roll carpet, push the REVERSE ROLL EXCHANGE handle to the down position and make sure that the right side rollers are moving in the opposite direction.



When loading carpet to be reverse rolled, ensure that the carpet feed is coming from the top with the backing facing up.



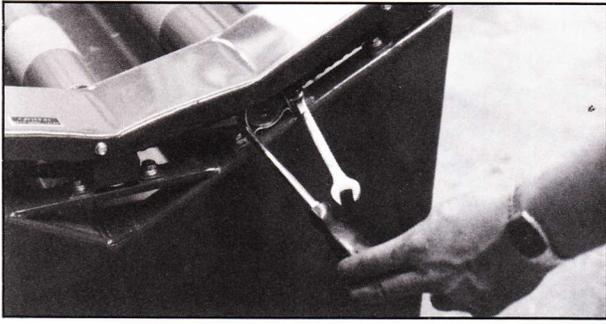
To begin the reverse roll procedure, you must position yourself along the left side, and with the aid of the foot bar, start it by hand. Be sure to raise the COUNTER WEIGHT as well, to allow the carpet to pass through freely.



Once the roll has been started, you can manually prevent telescoping by keeping the end nearest to you flush.

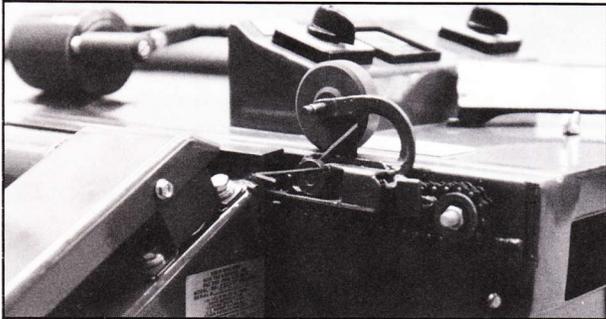
**NOTE:** Accurate measurement of carpeting during the reverse roll procedure is **not** possible. This procedure is meant only to reverse the carpeting pile out, not for measuring. In order to correctly measure the carpeting this way, a separate TOP COUNTER would have to be attached to the COUNTER WEIGHT. Please contact an E-Z Cut representative if the situation arises where you would prefer to employ a TOP COUNTER.

# MAINTENANCE



Loose Chains

- Chains between rollers. Tighten by shifting bearing holders over.
- Loosen bolts slightly, pry between bolt head and bearing holder, retighten bolts (9/16 wrench).
- Chains from drive gear box. Remove shims from under gearbox and/or slide gearbox to left or right. (11/16 socket)



Replacing Blades

- Remove cutting bar cover plate.
- Insert allen key and loosen off set screw.
- Replace blade.
- Tighten set screw. Do not overtighten.
- Replace cutting bar cover plate.

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## Loose belts Gearbox

- Tighten by sliding motor over.
- It is recommended to change the oil after first 85 hours, then every 2500 hours of operation.
- Oil level should be to the centre of sight gauge or between 2 1/2 to 4 1/2 inches from bottom of gearbox.
- Use a W80-90 gear oil.

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## Chains

- Apply grease lightly to chains when chains and sprockets appear dry and shiny.

**NOTE:** Never apply oil or WD40 to cutter chain.

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## Reverse roll & right clutch

- Apply grease to roll pin area as well as shifting fork and ring. There should be a light film of grease on these areas at all times. (Special grease supplied with machine).

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## Cutting track

- Keep clean by blowing out or vacuuming daily.

# TROUBLESHOOTING

## PROBLEM

## SOLUTIONS

**Machine will not run at all.**

- A. Check extension cord connections.
  - B. Check electrical panel in building.
- 

**Only cutter drive or only roller drive motor runs.**

- A. Push reset button on motor not running.
  - B. Try both forward and reverse, if it works one direction only, then switch may be defective.
- 

**None of the foot pedals switch machine on.**

- A. Make sure roller switch is in the forward or reverse position.
  - B. Check for a clicking sound coming from below dash of machine.
  - C. If there is a clicking sound, check reset button on roller drive motor.
  - D. If no clicking sound, but rather a loud buzzing sound or no sound at all, then check relay (unplug machine). Remove cover. Visually inspect for good connection of wires on relay.
  - E. Clean off any metal fibres and dirt from relay.
- 

**Only one foot pedal not switching machine on or off.**

- A. Check for a clicking sound at foot pedal when pedal is pushed down and when it is released.
  - B. If no clicking sound, adjust foot pedal by tightening spring and/or bending the flat lever activating switch button. (uses 9/16 wrench)
- 

**Right clutch will not stop rollers.**

- A. Check if roll pin is still in place. If missing, replace with 1/4 x 5/8 roll pin.
  - B. Adjust clutch by screwing adjusting bolt in further. (3/4" wrench)
  - C. Apply grease.
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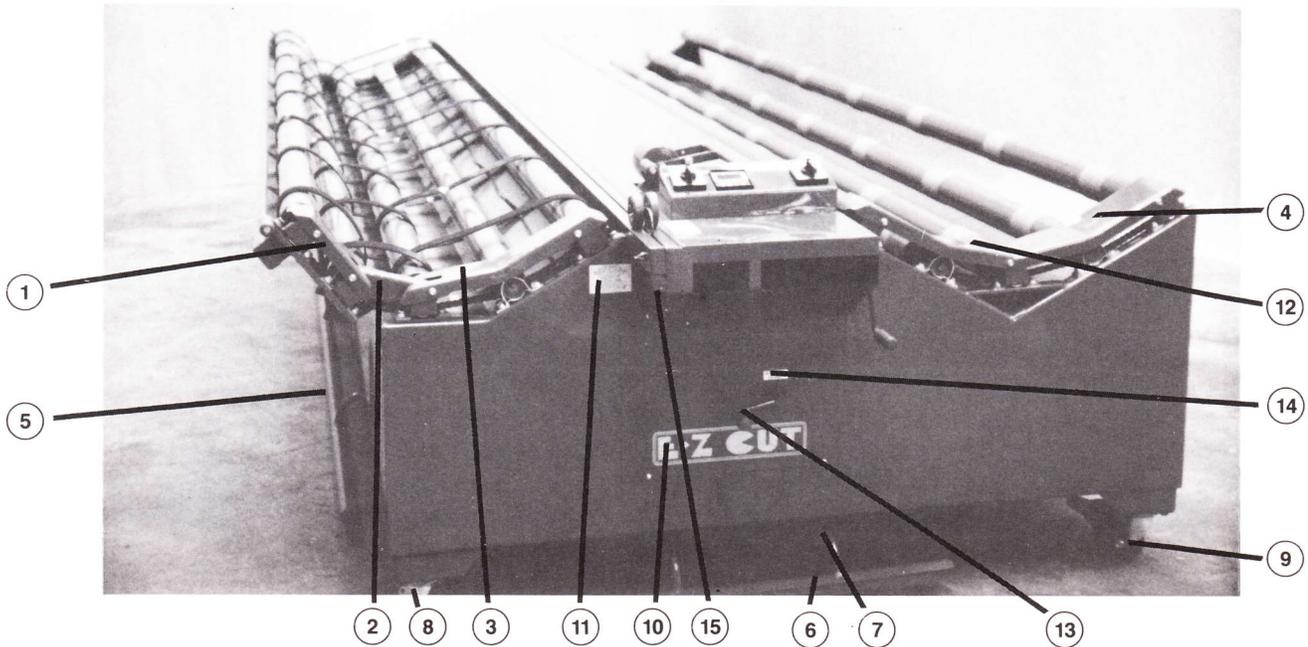
**Blade holder stopping during operation.**

- A. Install new blade.
  - B. If always stopping at same place, check that part of cutting track for debris and/or pry apart track slot to allow more space for blade holder.
  - C. Tighten cutting drive belt by sliding gearbox ahead, loosen bolts, pry gearbox ahead. (uses 11/16 socket underneath)
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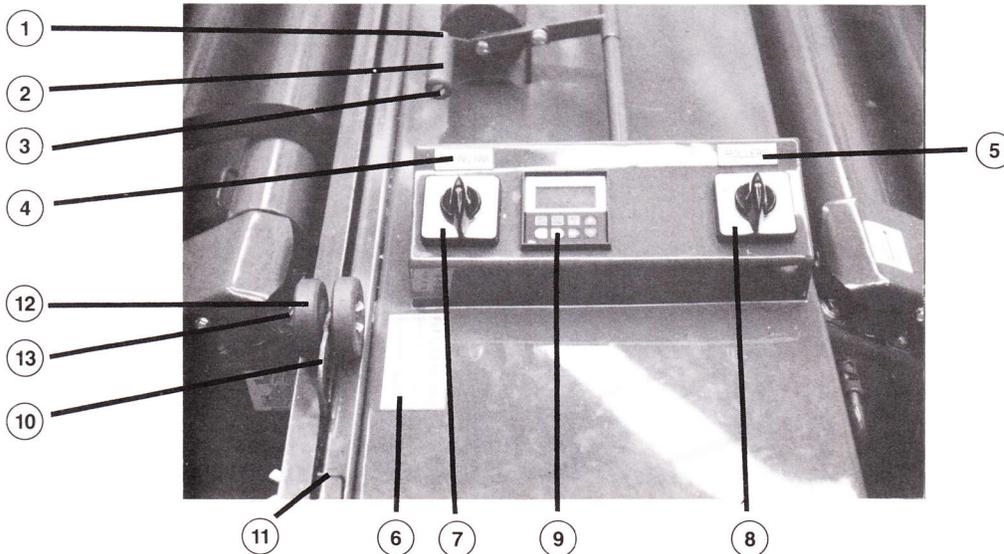
**Reverse roll will not shift into gear.**

- A. Shift while machine is in operation.
- B. Adjust shifting fork by moving spring sleeves on shifter shaft. (uses 1/8 allen wrench)
- C. Apply grease to fork and ring and roll pin area.
- D. Check for missing roll pin. If missing, replace with 1/4 x 5/8 roll pin.

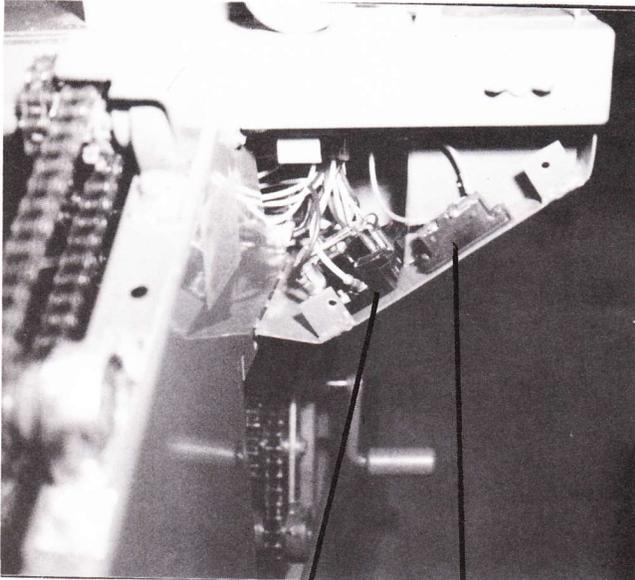
# MACHINE PARTS LIST



KEY	PART #	QTY.	DESCRIPTION	KEY	PART #	QTY.	DESCRIPTION
1	TC1	1	Chain cover	9	MCB	2	Brake caster wheel
2	TC2	1	Chain cover	10	MD1	2	E-Z cut decal (small)
3	TC3	1	Chain cover		MD2	2	E-Z Cut decal (large)
4	TC4	1	Chain cover	11	MD3	1	Serial # plate
5	EFB	2	Side foot pedal bars	12	MD4	1	Caution decal
6	EFFB	1	Front foot pedal	13	NWR1	1	Rubber washer
7	NH18-2916	6	Hitch pins 1/8" x 2 9/16"	14	MD7	1	Reroll engraving
8	MCW	2	Caster wheel	15	ESM	1	Counter switch

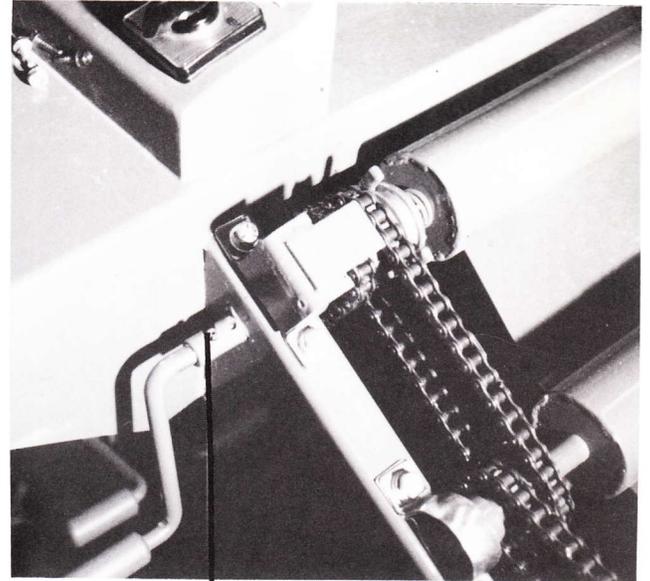


KEY	PART #	QTY.	DESCRIPTION	KEY	PART #	QTY.	DESCRIPTION
1	N38	1	3/8" nut	8	ESFR-2	1	Roller switch
2	PFWH	1	Counter weight handle	9	CED1	1	Durant counter (110v)
3	NB38-312	1	3/8" x 3 1/2" bolt	10	DMBHL	1	Blade holder
4	MD6	1	Cutting bar engraving	11		1	3/32" L wrench
5	MD5	1	Roller engraving	12	PFWH	2	Blade holder wheel
6	MD12	1	Conversion table	13	NNW516	1	5/16" wing nut
7	ESFR-1	1	Cutting bar switch				



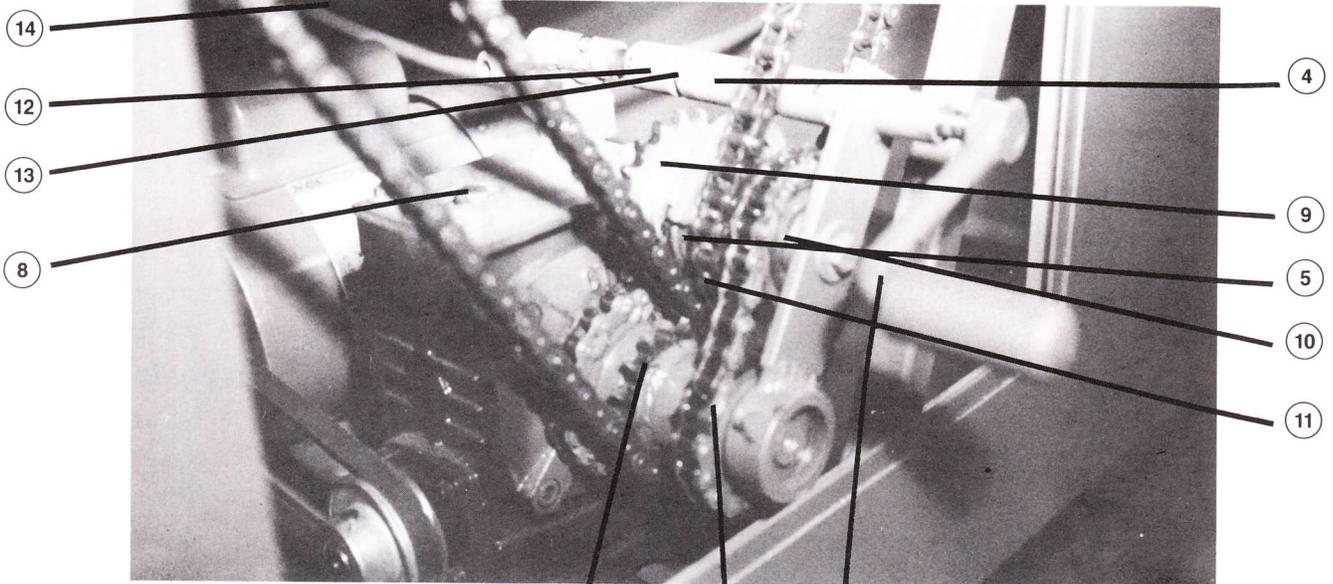
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KEY	PART #	QTY.	DESCRIPTION
1	ESM	1	Counter switch
2	ER1	1	Relay



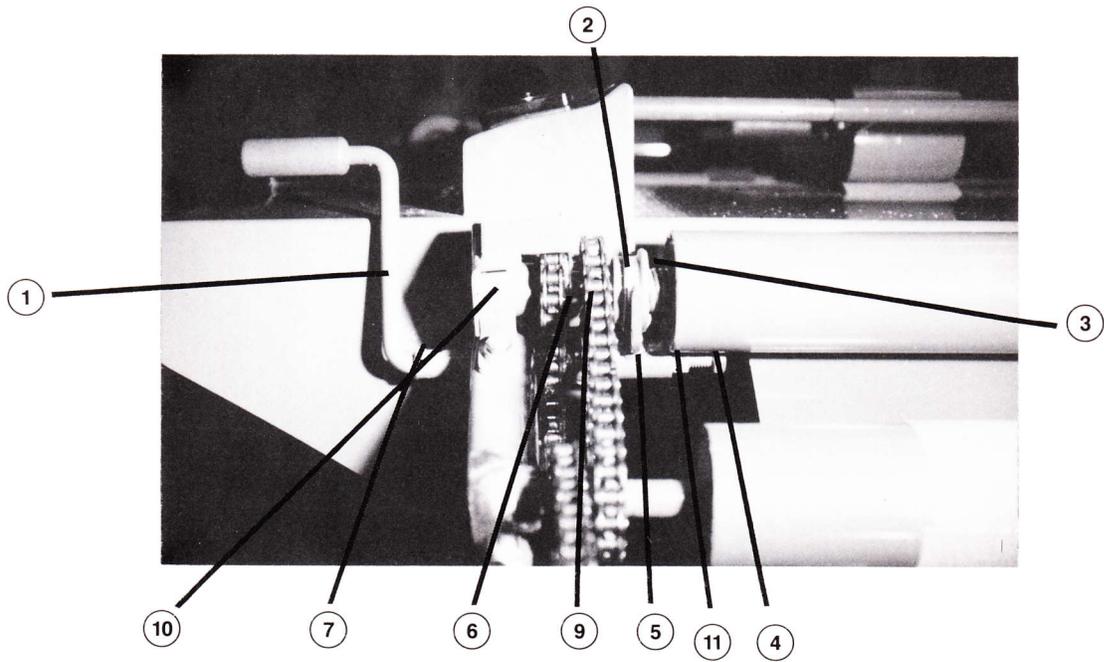
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KEY	PART #	QTY.	DESCRIPTION
1	NR14-58	1	1/4" x 5/8" roll pin
1	NR532-58	1	5/32" x 5/8" roll pin

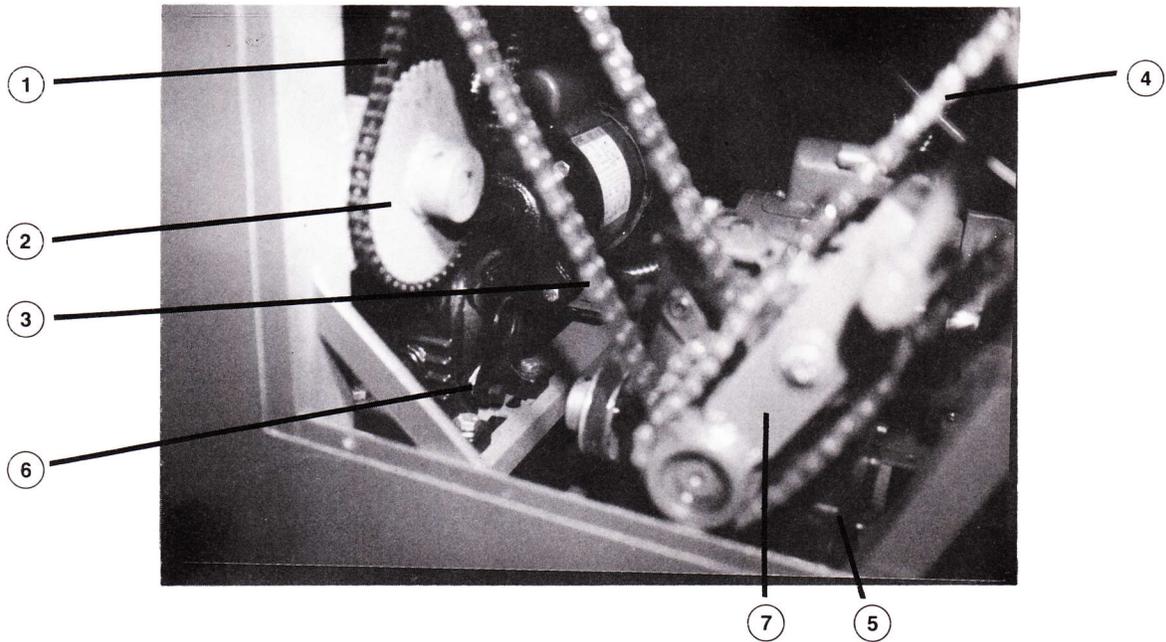


KEY	PART #	QTY.	DESCRIPTION
1	DGP40	1	Reroller chain
2	DGP2	1	Reroll shifter assembly (Includes key # 4, 5, 6, 9, 10, 11, 12, 13, 14)
3	DGP1	1	Reroll drive assembly
4	DGP11	1	Reroll shifter fork
5	DGP12	1	Reroll shifting collar
6	DGP13	1	Reroll handle

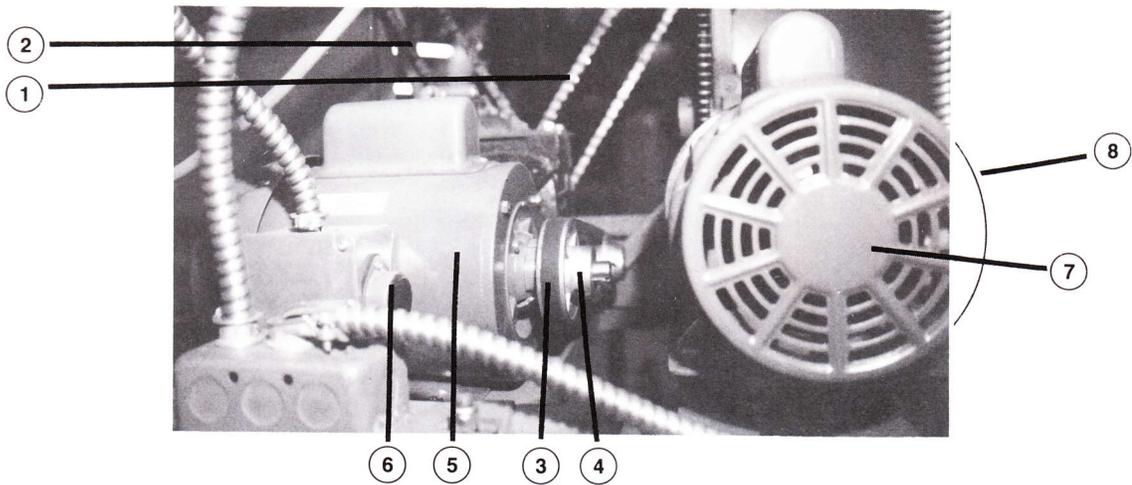
KEY	PART #	QTY.	DESCRIPTION
7	DGR60R	1	Complete reroll with gearbox
8	DGP14	1	Gearbox breather plug
9	DGPS1	1	Inside reroll sprocket
10	DGPS2	1	Middle reroll sprocket
11	DGPS3	1	Outside reroll sprocket
12	DGP15	2	Shifter fork adjustable collar
13	DGP16	2	Springs
14	NR14-58	1	1/4" x 5/8" roll pin



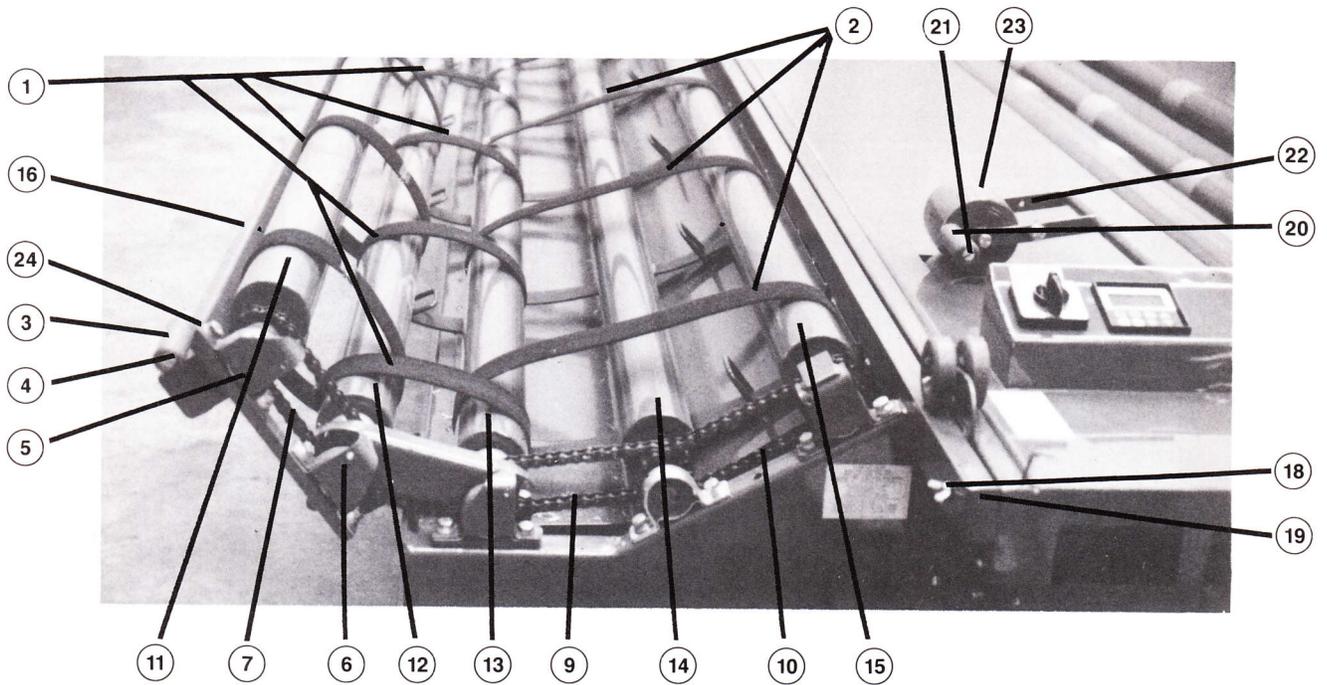
KEY	PART #	QTY.	DESCRIPTION	KEY	PART #	QTY.	DESCRIPTION
1	TLCH	1	Right clutch handle	6	TLS2	1	Clutch drive sprocket
2	TLSC	1	Right clutch shifting collar	7	TLS	1	Spiral
3	TLSP	1	Right clutch spring	8	TLR	1	Complete right clutch
4	NB12-112	1	Right clutch adjustment bolt (1/2" x 1 1/2" bolt)	9	TLS1	1	Roller drive sprocket
5	TLF	1	Right clutch shifting fork	10	B204-12	1	Bearing
				11	N12	1	1/2" lock nut



KEY	PART #	QTY.	DESCRIPTION
1	DC35	1	Cutting bar chain
2	S35W45	1	Sprocket
3	DC405	1	Drive chain
4	DC406	1	Drive chain
5	DGR60	1	Gearbox
6	DGF50	1	Flange gearbox
7	DGR60R	1	Reroll unit

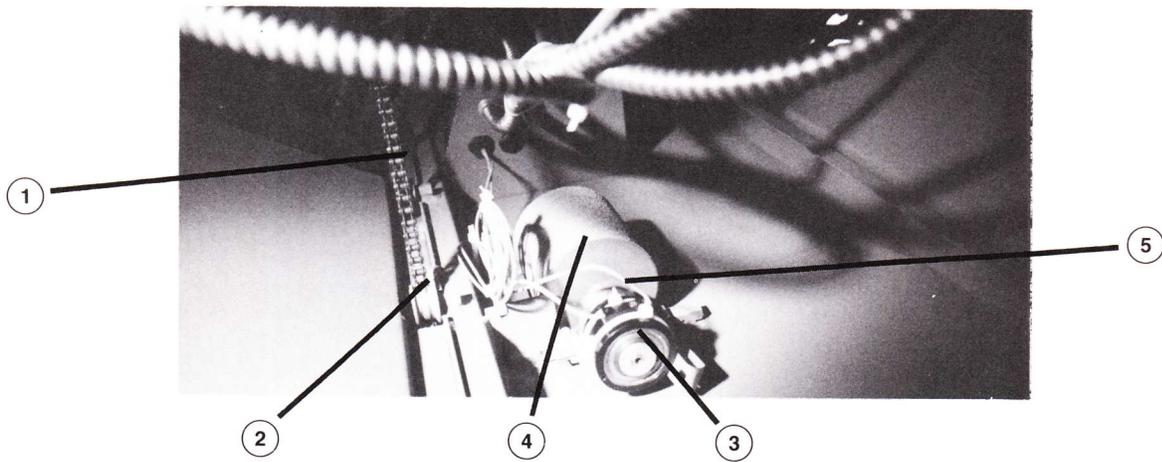


KEY	PART #	QTY.	DESCRIPTION	KEY	PART #	QTY.	DESCRIPTION
1	DC406	1	Drive chain	6	EMR34	1	3/4 h.p. reset button
2	DC405	1	Drive chain	7	EM13	1	1/3 h.p. motor
3	DBA23	2	A23 belt	8	EMR13	1	1/3 h.p. reset button
4	DPA1-L3	1	5/8" x 3" alum A pulley	9	DPA1-L4J	2	5/8" x 4 1/2" pulley for cutting bar (not shown)
5	EM34	1	3/4 h.p. motor				

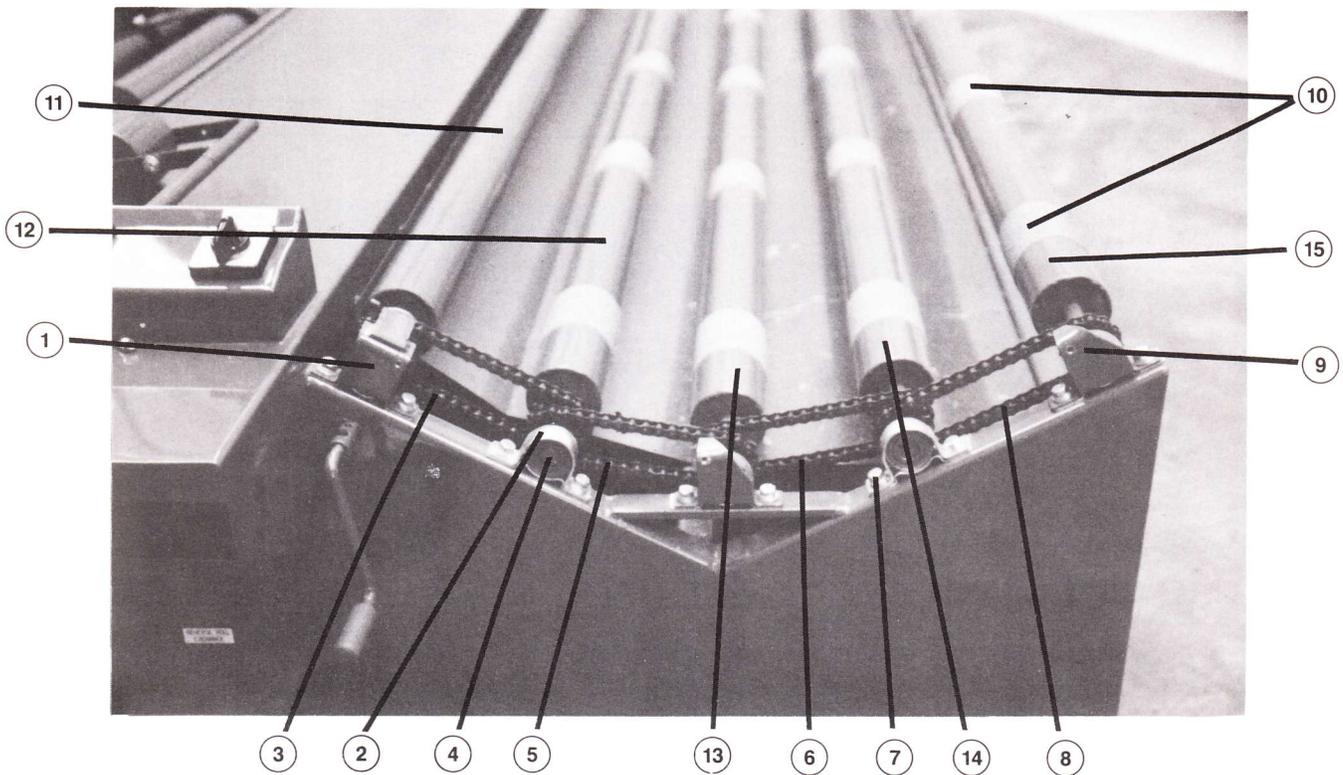


KEY	PART #	QTY.	DESCRIPTION	KEY	PART #	QTY.	DESCRIPTION
1	MRB2	14	2" x 21 3/4" C.P.U. belts	12	TR02	1	Left roller 2
2	MRB1	8	2" x 37 3/4" C.P.U. belts	13	TR03	1	Left roller 3
3	PFLH	1	Roll up handle	14	TR04	1	Left roller 4
4	NB38-4	1	3/8" x 4" bolt	15	TR05	1	Left roller 5
5	BS204-2	2	Pillowblock & chain guard brackets	16	TB1	1	Roller holder & belt guides
6	BS204-1	3	Pillowblock & chain guard brackets	17	TB2	1	Roller holder & belt guides
7	DC401	1	Chain	18	NNW38	1	3/8" wing nut
8	DC402	1	Chain	19	TM	1	Cutting bar cover plate
9	DC403	1	Chain	20	PFC2	1	Counter weight handle
10	DC404	1	Chain	21	NB38-312	1	3/8" x 3 1/2" bolt
11	TR01	1	Left roller 1	22	CWB	1	Counter weight bracket
				23	CWW	1	Counter weight
				24	N38	1	3/8" nut

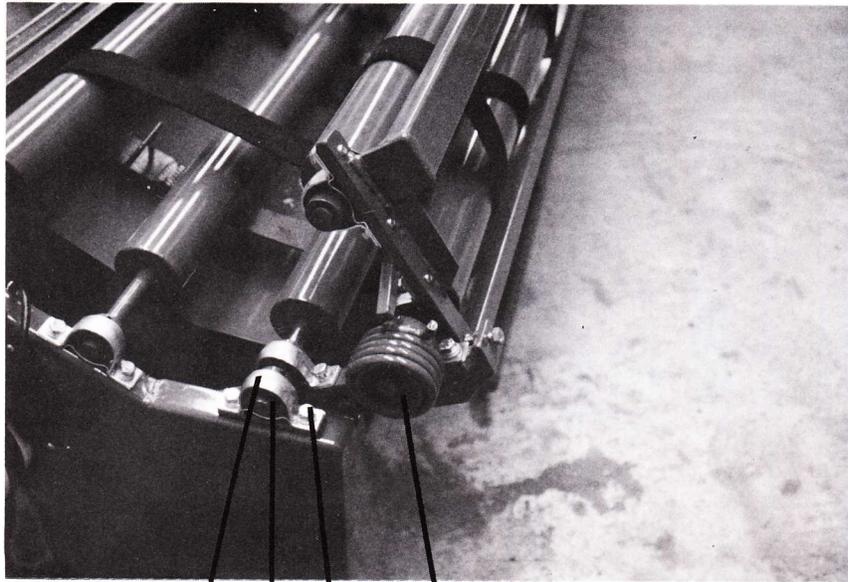
(Inverted view of counter wheel)



KEY	PART #	QTY.	DESCRIPTION
1	DC35	1	Cutting bar chain
2	BP16	1	Pulley sprocket
3	CEE	1	Hollow core encoder
4	CWI	1	Counter wheel
5	BCS	2	Bearing 1604 w/collar
6	BS202	2	Pillowblock P203 (not shown)

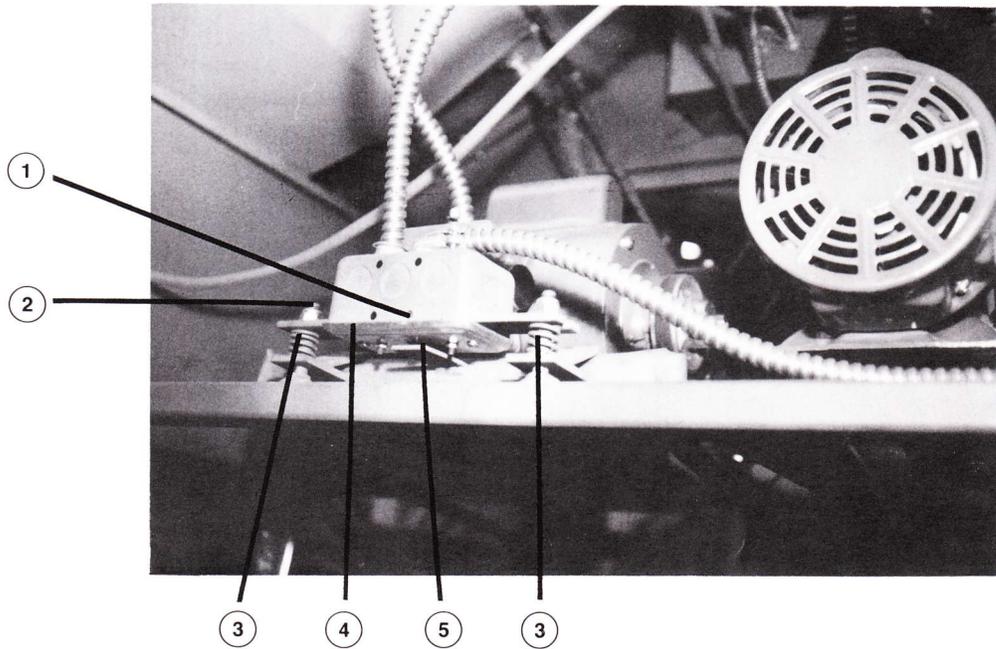


KEY	PART #	QTY.	DESCRIPTION	KEY	PART #	QTY.	DESCRIPTION
1	BS204-3	2	Pillowblock & chain guard bracket	9	BS204-1	3	Pillowblock & chain guard bracket
2	BS204	17	Pillowblock	10	MS	32	Safety walk
3	DC407	1	Chain	11	TR06	1	Right roller 6
4	B204-12	24	204-12 bearing	12	TR07	1	Right roller 7
5	DC408	1	Chain	13	TR08	1	Right roller 8
6	DC409	1	Chain	14	TR09	1	Right roller 9
7	NB38-1	1	3/8" x 1" bolt	15	TR10	1	Right roller 10
8	DC410	1	Chain				



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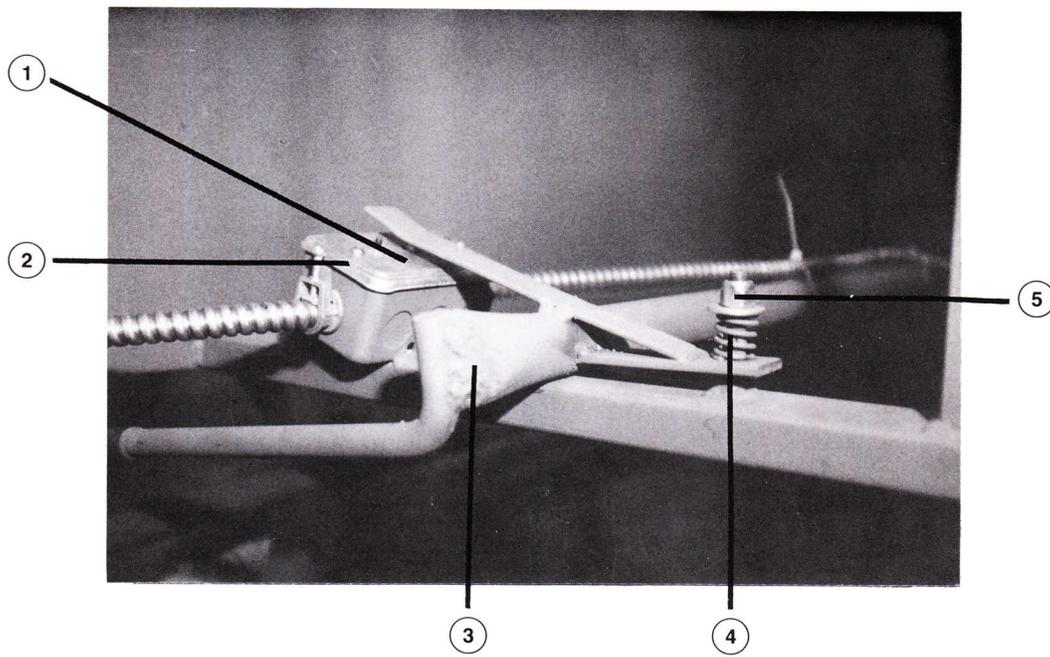
KEY	PART #	QTY.	DESCRIPTION
1	TS5	1	Fold up spring
2	NB38-1	1	3/8" x 1" bolt
3	B204-12		3/4" bearings
4	BS204		3/4" bearings



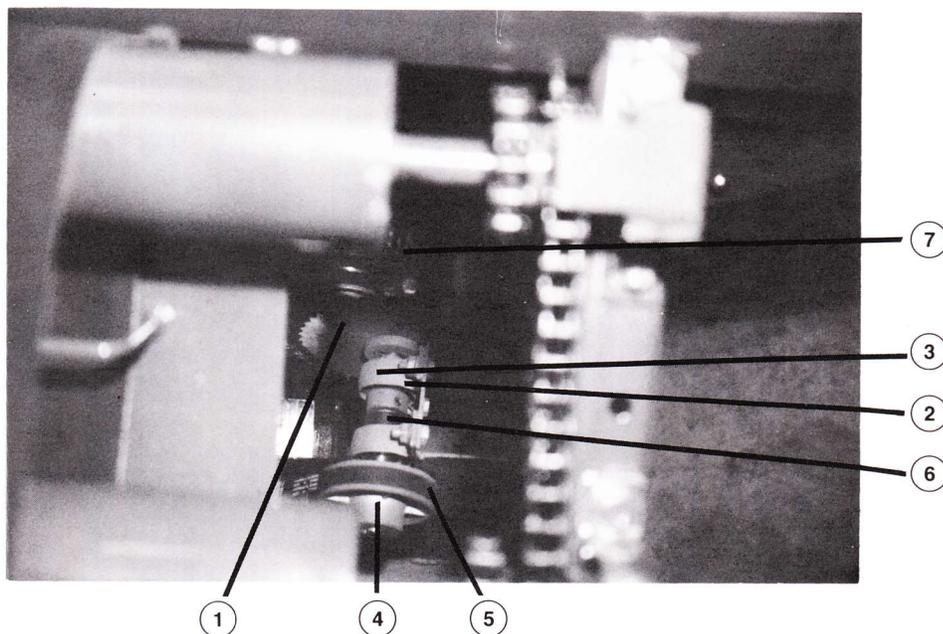
①  
②

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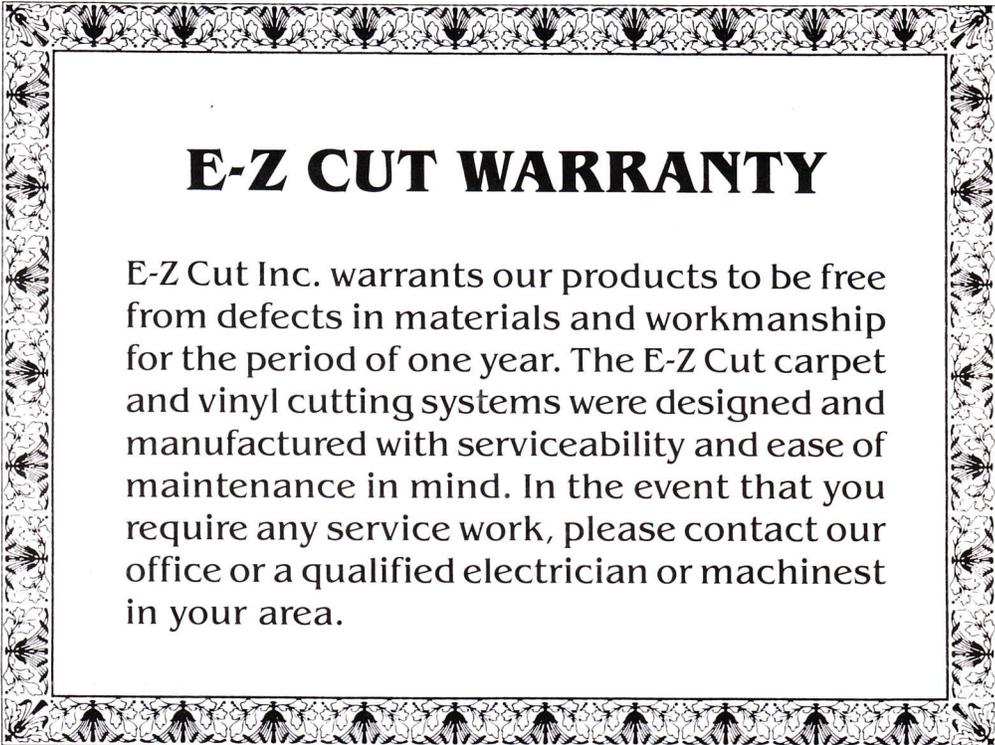
KEY	PART #	QTY.	DESCRIPTION
1	ESM	1	Microswitch
2	NNL716	1	7/16" lock nut
3	TS3	1	Spring
4	EPC2	1	Switch plate
5	EFFM	1	Front foot pedal mount



KEY	PART #	QTY.	DESCRIPTION
1	ESM	1	Microswitch
2	EPC2	1	Switch plate
3	EFM	1	Side foot pedal mount
4	TS3	1	Spring
5	NNL716	1	7/16" lock nut



KEY	PART #	QTY.	DESCRIPTION
1	S35W45	1	35W45 sprocket
2	B202-10	1	5/8" bearing
3	BS202	1	5/8" pillowblock
4	DPA1-L4J	1	5/8" x 4 1/2" alum pulley
5	DBA23	1	A23 belt
6	TMCS	1	5/8" shaft (cutting bar)
7	DC35	1	Cutting bar chain



## **E-Z CUT WARRANTY**

E-Z Cut Inc. warrants our products to be free from defects in materials and workmanship for the period of one year. The E-Z Cut carpet and vinyl cutting systems were designed and manufactured with serviceability and ease of maintenance in mind. In the event that you require any service work, please contact our office or a qualified electrician or machinest in your area.

NOTE: Before proceeding on any warranty repairs contact our office first.

*For further information, contact:*

**E-Z CUT INC.**

433 St. Mary's Road  
Winnipeg, Manitoba, Canada R2M 3K7  
PH. (204) 235-1122 FAX (204) 237-9339  
U.S. Toll Free 1-800-661-5156