

INSTRUCTION MANUAL FOR



No. 514



LOCKING HEAD



LOCK ON/OFF KNOB



CRAIN

No. 514 Mini-Stretcher
with Seam Repair Attachment

HOW TO USE YOUR CRAIN MINI-STRETCHER

The No. 514 features a heavy-duty aluminum frame and dual powerheads, ensuring dependable and trouble free operation. The unique swivel design allows directional stretching for correction of bow, skew, and pattern elongation as well as compression of gapped seams for alignment and repair. Remove the swivel powerhead, add the tail blade, and the unit becomes a mini-power stretcher for tackstrip installations.

OPERATING INSTRUCTIONS

- When used as a pattern matching stretcher, it works by anchoring itself onto the carpet with the front nap grip head and pulling the back nap grip head forward, thus moving the carpet pattern. You may have to repeat this action moving the Mini-Stretcher forward after each action (crab walking).



Figure 1



Figure 2

- Use the Nap Grip head dial to properly adjust pin penetration into only the carpet backing and not into the carpet padding. This will reduce the risk of carpet damage and ensure proper stretching.



Figure 3



Figure 4

- The tool allows you to “crab walk” the carpet pattern into proper alignment. As pattern distortion can vary in every piece of carpet, it will be necessary to “crab walk” the pattern in multiple locations across the breadth of the distortion to achieve proper pattern alignment.



Figure 5



Figure 6

- Cuts should be arranged so the longest pattern is installed first. Make sure carpet is dry laid prior to applying adhesive. Pre-stretch carpet only enough to match pattern closely. Apply adhesive with proper notched trowel, set carpet into adhesive wet, to aid the ability to move the carpet into pattern alignment. **NOTE:** Only apply the amount of adhesive that can be covered and pattern alignment achieved before adhesive starts to tack up. After pattern alignment is achieved the use of stay nails is required to hold carpet until the adhesive is fully cured.

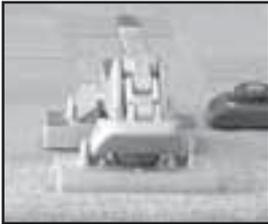


Figure 7



Figure 8

- Match the pattern at the midpoint of the seam's length. Work from the seam's midpoint to the seams ends. Bring the pattern into register using the stretcher.

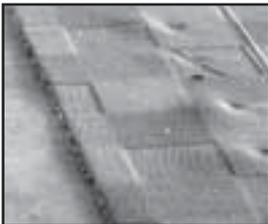


Figure 9



Figure 10

- After the carpet has been properly aligned into the wet adhesive, the use of stay nails is required to hold the carpet alignment until the carpet adhesive is fully cured. 24-36 hours.

LOCKING HEAD OPERATION

The No. 514 can be used in either the "automatic locking" or conventional method by setting the Lock Control as shown below. The automatic locking mechanism locks the stretcher in position approximately each $\frac{1}{4}$ " (6.55 mm) of travel. The stretcher will hold this position and will not open. This enables the user to make "hands-off" seam repairs, as it is not necessary to hold the handle in position.



Figure 11

- For "automatic locking", open the stretcher, then set the Control Knob on the "O" mark (see figure 11).
- For "non-locking", set the lock control on the "1" marked as shown below (see figure 12).



Figure 12

SEAM REPAIR

Simply straddle the seam and adjust the position of the dual heads to properly close the seam gap. Apply latex or adhesive. Allow adhesive to achieve full bond before removing the Mini-Stretcher, or use stay nails until cured. Be careful not to get adhesive on the face yarns of the carpet. Failure to properly seal seam edges often results in edge ravel, edge delamination, tuft loss or seam separation.

INSTALLING THE SEAM REPAIR ATTACHMENT

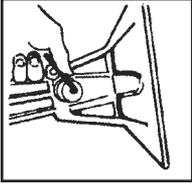


Figure 13

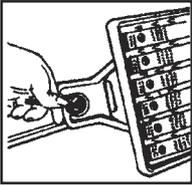


Figure 14

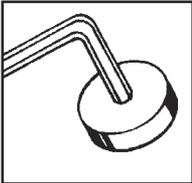


Figure 15

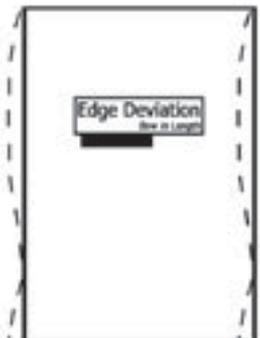
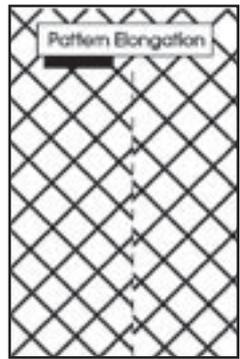
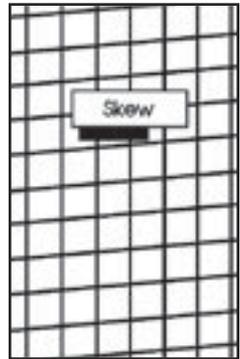
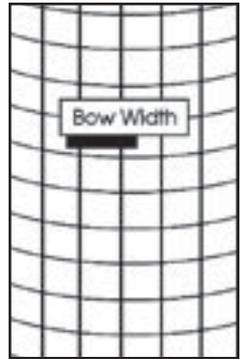
1. On the underside of the Pattern Matcher is a black Allen screw holding a "cup" washer and the powerhead in place. Remove the black Allen screw with the Allen wrench provided.
2. Remove the cup washer and powerhead.
3. Position seam attachment so that the blade is pointing outward.
4. Invert the cup washer (the cup part of the washer should be facing the frame assembly).
5. Tighten Allen screw.
6. Reverse this procedure when replacing the second power head. When replacing the powerhead, be sure the "cup" of the cup washer is facing away from the frame assembly.

CARE OF YOUR STRETCHER

- To keep your Mini-Stretcher operating smoothly and to minimize wear, all moving parts should be kept clean. Lubrication is not necessary because the tool has built-in lubrication in its precision bushings.
- Protect your Mini-Stretcher against damage when not in use. The tool comes complete with a carrying case. Keep your Mini-Stretcher in the case when not in use.
- If additional lubrication is desired, use paraffin wax to avoid getting oil spots on the carpet.
- Before disassembling your Mini-Stretcher, locate the end of all Pivot Pins which show the three holdings grooves. Remove pins by driving the grooved end of the pins outward. When reassembling, install Pivot Pins from opposite side of casting.

COMMON TYPES OF MANUFACTURING DISTORTIONS

Common Name	Description
Bow	A visible distortion or wave of the pattern across the width or berth of the carpet.
Skew/Bias	A pattern distortion of the pattern not being square with either edges of the carpet.
Pattern Elongation	An increase or decrease of cumulative pattern measurements, from one breadth of carpet to the next.
Edge Deviation	A visible wavy or crooked pattern, running parallel from the edge of the carpet.

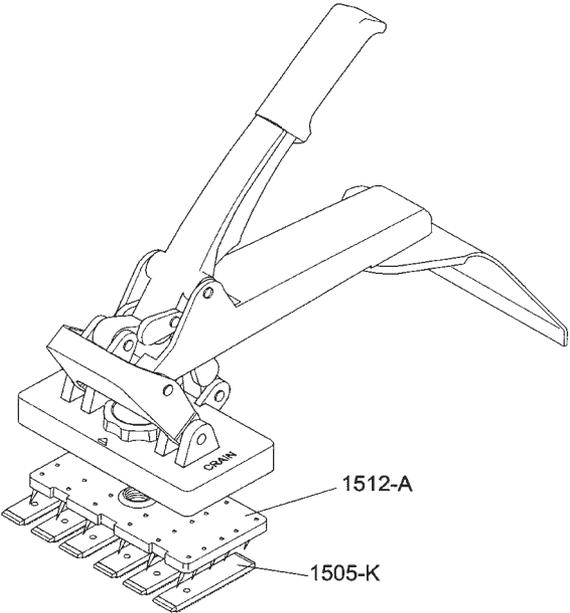


Tolerances: Although individual manufacturers have tolerances to which their patterned products must conform, THERE ARE NOT INDUSTRY STANDARDS FOR CARPET PATTERN VARIATION. Call the carpet manufacturer for their tolerances.

Note: Do not install carpet if a defect is visible, or if the distortion exceeds the tolerances specified by the carpet manufacturer.

Distortion drawings courtesy of CFI

REPLACEMENT PARTS AND ORDERING INFORMATION



Order No.	Description
1512-A	Pin Plate
1505-K	Gripper Inserts (3)

CRAIN WARRANTY

This Crain Stretcher is guaranteed to be free of defects in workmanship or quality of materials for a period of ONE YEAR.

Any parts of tools found defective subject to guarantee will be replaced at no charge. Credit in full or part cannot be extended by the distributor. New tools will not be given as replacements for those pending a warranty adjustment.

All merchandise returned subject to this warranty must be accompanied with same. All merchandise returned must be F.O.B. Milpitas, California, and must be in complete, assembled units. No consideration will be given to unassembled parts. All disputes will be up to the consideration of CRAIN CUTTER CO., INC. and their decision will be final.

Please fill out and mail this card to validate your CRAIN guarantee.

NAME _____

ADDRESS _____

CITY _____

STATE _____ ZIP _____

TOOL PURCHASED:
#514 Mini-Stretcher w/ SEAM ATT.

PURCHASED FROM: _____

DATE PURCHASED: _____

PLEASE CHECK:

- INDIVIDUAL FLOORING INSTALLER
- WORKROOM
- FLOORING DEALER
- INSTALLATION CONTRACTOR
- OTHER _____

PLACE
STAMP
HERE

Crain Cutter Co., Inc.

1155 Wrigley Way

Milpitas, CA 95035-5426