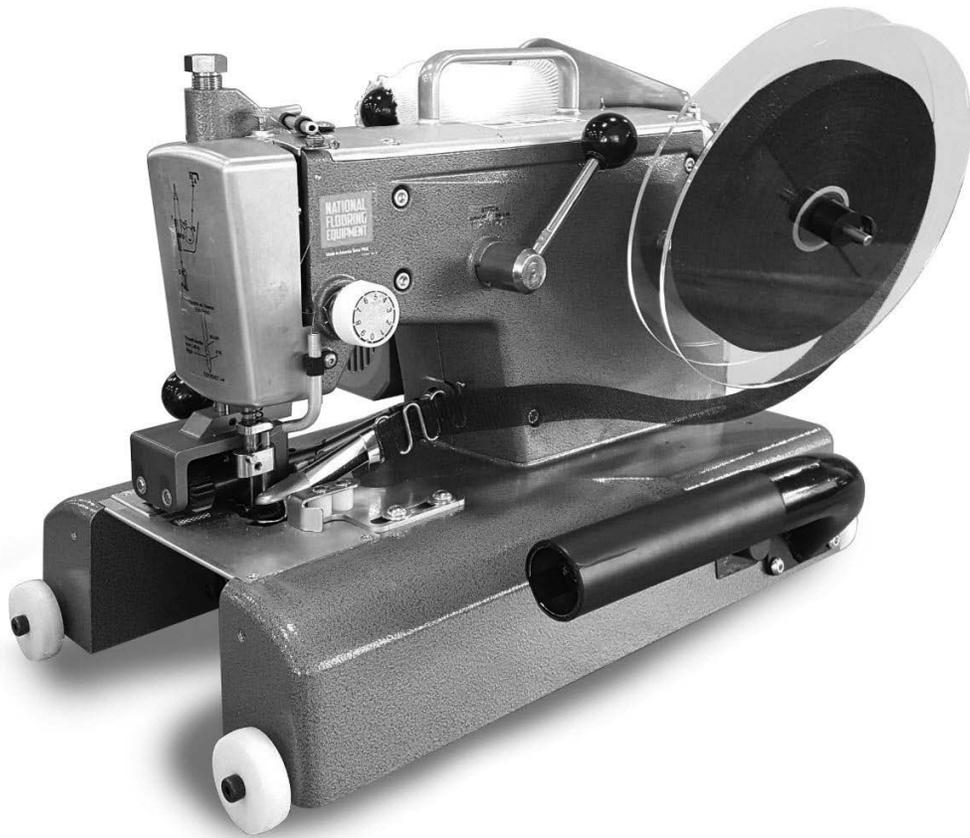


BINDPRO DOUBLE PULL BINDER INSTRUCTION MANUAL



Read Manual Before Operating Machine

405294-EN Rev A

DISCLAIMER

All efforts have been made to ensure the accuracy of the information in this manual. However, should any errors be found, National Flooring Equipment (NFE) would greatly appreciate being notified. Due to continual development of our equipment, NFE cannot take responsibility for any incorrect action taken, or not, due to errors or omissions in this manual that may result from negligence, accident, or any other cause.

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The use of third-party spare parts may adversely affect the performance of the product and could invalidate the warranty.

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Table of Contents

Table of Contents	3
Features and Specifications	4
Safety	6
General Rules for Safe Operation	6
Recommended Electrical Practices	7
Main Controls and Components	8
Operation	10
Unpackaging	10
Threading the Machine	10
Thread Tension	12
Proper and Improper Thread Tension	12
Upper Thread Adjustment	12
Lower Thread Adjustment	12
Installation and Threading of Binding Tape	13
Stitching	14
Changing Between Zigzag and Straight Stitch Modes	14
Preparing to Stitch	14
Stitching	14
Stitching Around a Corner	15
Removing Carpet	15
Important Points	15
Binding Corners	16
Outside Corners	16
Inside Corners	18
Folder Options	20
Operating Tips	21
Maintenance	22
Lubrication	22
Needle Height Adjustment	23
Needle-To-Driver Setting & Race Cover Spring Clearance	24
Folder Adjustment	25
Troubleshooting Guide	26
Complete Parts List	28
Accessories & Attachments	30
Warranty	33

Features and Specifications



FEATURES

- Electronic speed control
- Heavy-duty gear set on top drive shaft makes machine more robust
- LED light improves visibility of sewing area
- Heavy-duty 1/8 hp motor
- Straight stitch or zigzag lock stitch for binding strength
- Factory-set feed timing using keyways on top shaft
- Oilite bearings simplify maintenance
- Heavy-duty transfer rollers for improved mobility
- Ball bearing cam follower for reduced friction and increased longevity
- Ergonomic handle gives better visibility and reduces hand and arm fatigue
- Accommodates a variety of binding folder sizes
- Sews approximately 16 lf/min

Features and Specifications

Product Specifications				
Width	Length	Height	Weight	Power
15" (38.1 cm)	19" (48.3 cm)	14" (35.6 cm)	44 lbs (20.0 kg)	120V, 5A

Safety

GENERAL RULES FOR SAFE OPERATION

READ AND SAVE ALL INSTRUCTIONS FOR FUTURE USE. Before use, ensure operators read and understand this manual. Read and understand labeling on machine and components. Extra copies of the manual are available.

1. **KNOW YOUR EQUIPMENT:** Read this manual carefully to learn equipment applications and limitations, potential hazards associated with this type of equipment. Keep this manual with the equipment it is associated with.
2. **AVOID DANGEROUS ENVIRONMENTS:** Do not use in rain, damp or wet locations, or in the presence of explosive atmospheres (gaseous fumes, dust or flammable materials). Remove materials or debris that may be ignited by sparks.
3. **KEEP WORK AREA CLEAN AND WELL LIT:** Cluttered, dark work areas invite accidents.
4. **DO NOT USE ON STEPS.**
5. **DRESS PROPERLY:** Do not wear loose clothing. These may be caught in moving parts. When working wear gloves and insulated non-skid footwear. Keep hands and gloves away from moving parts.
6. **USE SAFETY EQUIPMENT:** Hearing protection is recommended during extended use.
7. **KEEP BYSTANDERS AWAY:** Children and other bystanders should be kept at a safe distance from the work area to avoid distracting the operator and contacting the equipment or extension cord. Operator should be aware of the proximity of bystanders. This machine is not intended for use by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge. Equipment is not to be used by children.
8. **USE PROPER ACCESSORIES:** Using accessories that are not recommended may be hazardous. Be sure accessories are properly installed and maintained. Do not remove a guard or other safety device when installing an accessory or attachment.
9. **CHECK FOR DAMAGED PARTS:** Inspect guards and other parts before use. Check for misalignment, binding of moving parts, improper mounting, broken parts and other conditions that may affect operation. If abnormal noise or vibration occurs, turn off immediately and have the problem corrected before further use. Do not use damaged equipment. Tag damaged equipment "DO NOT USE" until repaired. Missing or damaged parts should be properly repaired or replaced immediately. For all repairs, use only identical NFE replacement parts.
10. **GUARD AGAINST ELECTRIC SHOCK:** Prevent body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. Hold your equipment by insulated nonmetal grasping surfaces. Use a Ground Fault Circuit Interrupter (GFCI) to reduce shock hazards.
11. **DO NOT FORCE EQUIPMENT:** Equipment will perform best at the rate for which it was designed. Excessive force only causes operator fatigue, increased wear, reduced control and may cause needle deflection.
12. **KEEP HANDS AWAY FROM ALL MOVING PARTS.**
13. **STAY ALERT:** Watch what you are doing, and use common sense. Do not use when you are tired, distracted or under the influence of drugs, alcohol or any medication causing decreased control.
14. **MAINTAIN LABELS AND NAMEPLATES:** These carry important information. If unreadable or missing, contact NFE for a replacement.
15. **MACHINE IS HEAVY, DO NOT DROP.** Ensure proper lifting procedures are followed when transporting.

RECOMMENDED ELECTRICAL PRACTICES



WARNING: ELECTRICAL CORDS CAN BE HAZARDOUS. MISUSE CAN RESULT IN FIRE OR DEATH BY ELECTRICAL SHOCK. READ CAREFULLY AND FOLLOW ALL DIRECTIONS.



CAUTION: ALWAYS FOLLOW APPLICABLE ELECTRICAL CODES, STANDARDS AND/OR REGULATIONS. CONSULT YOUR LOCAL ELECTRICAL AUTHORITY OR A LICENSED ELECTRICIAN BEFORE ATTEMPTING TO MODIFY AN ELECTRICAL INSTALLATION. ENSURE THAT CIRCUIT AND GROUND FAULT PROTECTION DEVICES AND ALL OTHER ELECTRICAL SAFETY EQUIPMENT ARE FUNCTIONING PROPERLY.

Guidelines for Using Extension Cords

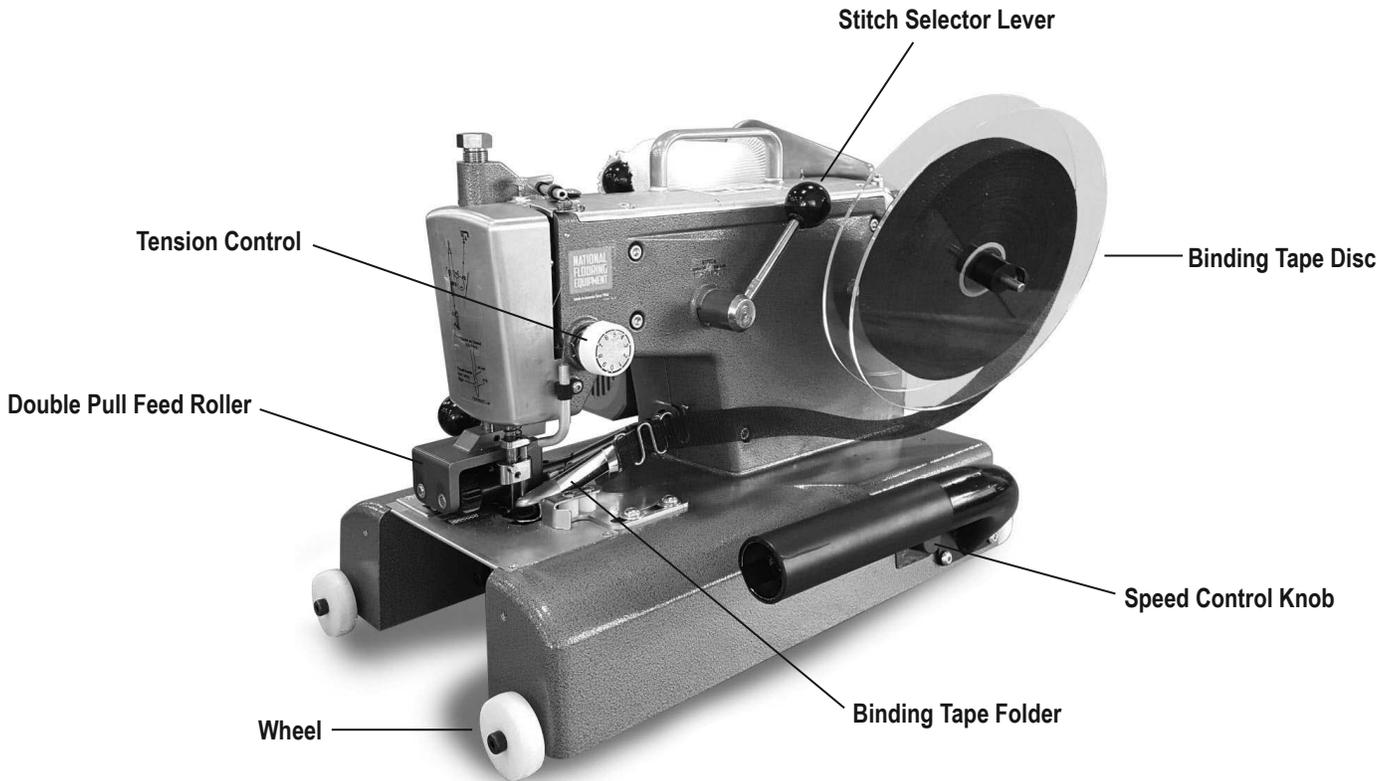
- Ensure the cord type is suitable for the application and location. If you are unsure about your cord type, consult a qualified electrical professional or electrician.
- Ground your equipment. The equipment must be plugged into an appropriate outlet, one which is properly installed and grounded in accordance with all codes and ordinances. Do NOT modify the plug provided with the equipment. Never remove the grounding prong from the plug.
- Do not remove, bend or modify any metal prongs or pins of the plug. Modifications to power cords and/or plugs may result injury and/or equipment damage.
- FULLY INSERT plug into outlet.
- Do not use excessive force to make connections.
- Never unplug by pulling the cord from the outlet. Pull plug rather than cord to reduce the risk of damage.
- Regularly examine your extension cord and ensure it is in good electrical condition. Never use a damaged cord—either replace it or have it repaired by a qualified person.
- Protect your extension cords from sharp objects, excessive heat and damp or wet areas. Keep the cord away from oil, cutting edges and moving parts.
- Do not drive, drag or place objects over cord.
- Avoid overheating. Uncoil cord and do not cover it with any material.
- Avoid accidental starting. Be sure equipment is turned off before plugging in. Do not use equipment if the power switch does not turn the equipment on and off.
- Make sure equipment is not running before disconnecting cord.
- Unplug equipment. When not in use and before changing accessories or performing maintenance, unplug the machine.

Recommended Extension Cord Size

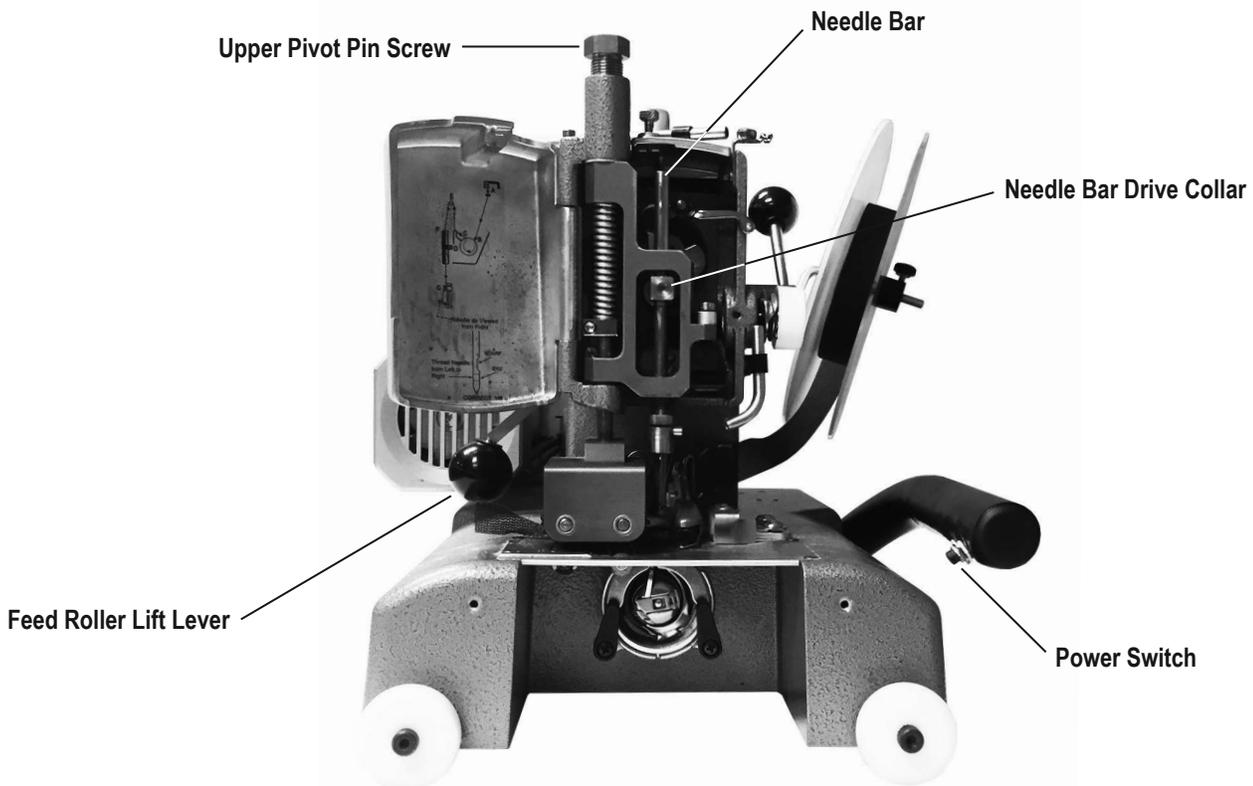
Use a 14 AWG, SJOOW cord, 200 ft (61 m) maximum length with this machine. Ensure cord has a 3-prong plug (NEMA 5-15).

Main Controls and Components

FRONT VIEW

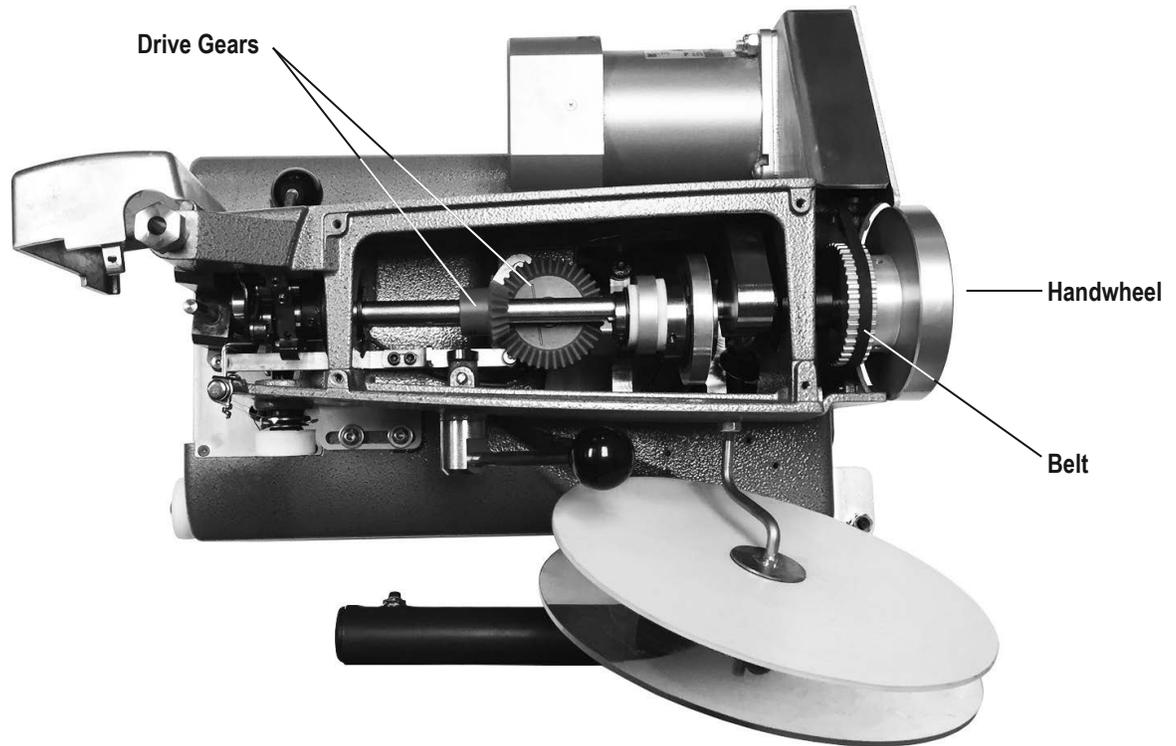


END VIEW

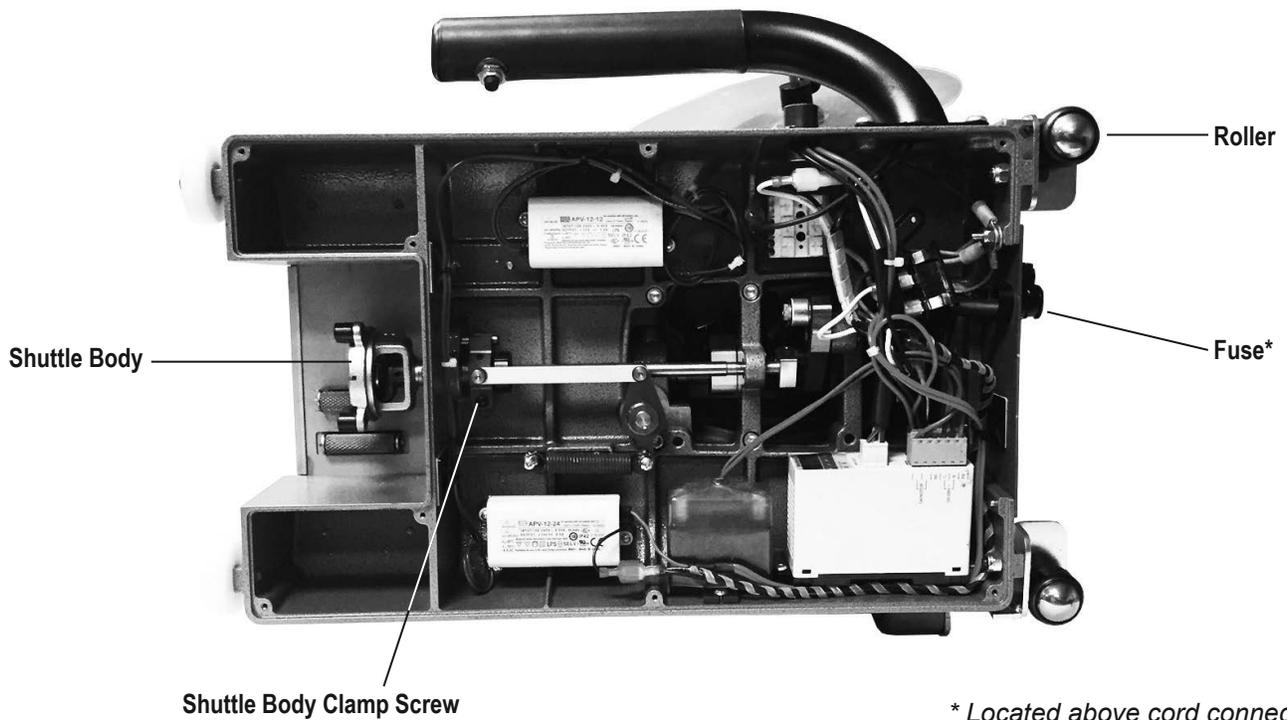


Main Controls and Components

TOP VIEW



BOTTOM VIEW



Operation

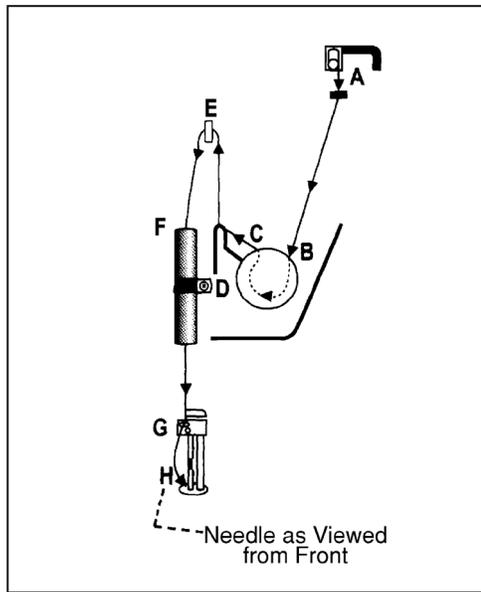


FIG. 1

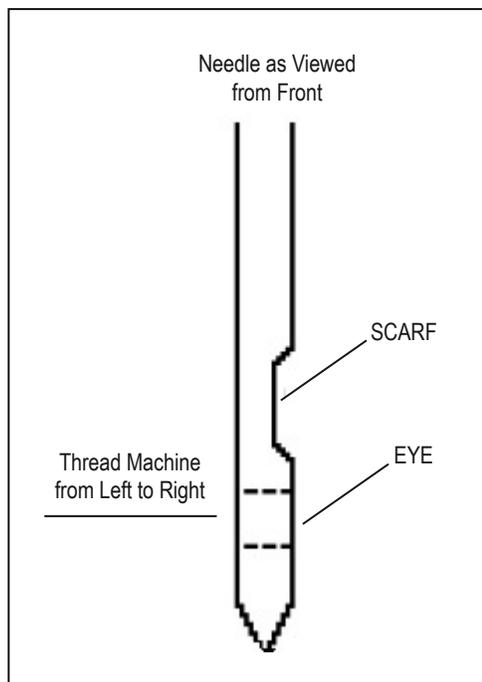


FIG. 2

UNPACKAGING

Important!

It is highly recommended you retain the box and packing your binder was supplied in for storage, transporting, or if necessary, shipping the binder for service. Replacement shipping cartons can be purchased.

For equipment to be returned, please call NFE at 1-800-245-0267.

Each new binder is furnished with the following items:

- Instruction manual
- Top thread (spool)
- Binding tape discs (front and back)
- Binding tape centering plug
- Binding tape (1/2 gross)
- Serging tape sample
- Lubricant
- Accessory kit (see Accessories section for items included in kit)



WARNING: FOR YOUR SAFETY, DISCONNECT THE POWER SOURCE TO THE BINDER BEFORE ATTEMPTING TO SERVICE OR ADJUST THE MACHINE.

THREADING THE MACHINE

1. Raise needle to highest point.
2. Thread by following the letters indicated in Figure 1.
 - A. Upper thread tube and guide
 - B. Enter tension discs
 - C. Exit tension discs
 - D. Take-up spring
 - E. Take-up arm
 - F. Lower thread tube
 - G. Needle block
 - H. Needle (see Figure 2)

Note: Ensure thread is bottomed in the tension disc (B and C in Figure 1). This is extremely important! Thread needle from left to right or from the outside to the inside of the machine.

3. Remove bobbin case.
 - A. Rotate handwheel toward you until needle reaches its highest point.
 - B. Tilt machine to rest on handwheel end. If you have binding tape installed, use a small block to support machine on handwheel to prevent the tape discs from breaking.
 - C. Lift and grasp bobbin case latch (Figure 3 on following page).
 - D. Remove case by pulling towards you.

THREADING THE MACHINE—CONTINUED

4. Thread bobbin case.

- A. With bobbin and bobbin case being held as shown, and with approximately 5-6" of thread for feeding, insert bobbin into case (Figure 4).
- B. Pull thread through slot in the bobbin case (Figure 5). Thread should unwind counterclockwise towards slot.
- C. Continue by pulling thread under tension spring and up through slot in spring (Figure 6).
- D. Put thread through hole in bobbin case arm leaving approximately 5-6" of bobbin thread hanging from the arm.

Note: To check for proper thread feed tension, see *Thread Tension* section.

5. Install bobbin case.

- A. Lift and grasp bobbin case latch and with the arm aligned with the notch in the shuttle race cover, slide the bobbin case fully onto the center post (Figure 3). You should hear it "click" into place. During this step, it is helpful to hold the thread with the bobbin case to prevent the bobbin from dropping out of the case.
- B. Trim the bobbin thread to approximately 2".

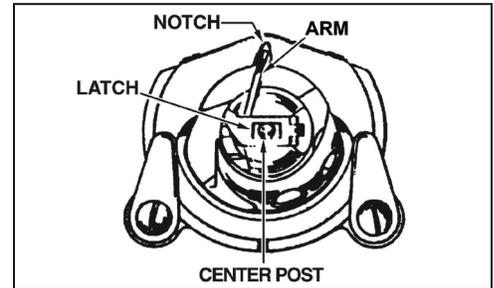


FIG. 3



FIG. 4

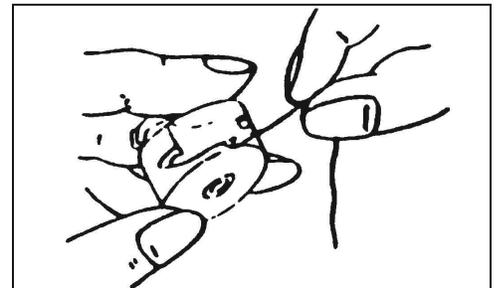


FIG. 5

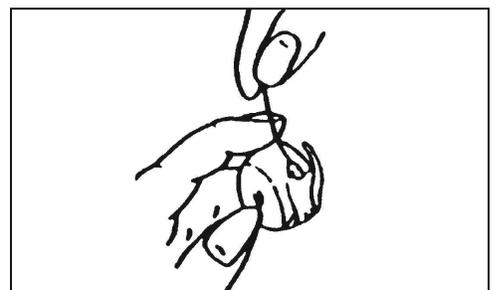


FIG. 6

6. Replace needle if needed.

Note: Proper needle type for your machine will be indicated by packet of needles included in kit. The binders are equipped with a Schmetz #23 heavy-duty needle. As an option, the Schmetz #22 can be used. The main difference is the #23 needle is slightly larger in diameter, therefore stiffer and tends to deflect less. Needle-to-hook spacing may change and the adjustment should be checked per the adjustment instruction sheet. The diameter decrease will result in a smaller penetration hole in the fabric.

- A. To remove needle, rotate the handwheel towards you (counterclockwise) until the needle reaches its highest point. Using a 5/64" Allen wrench (provided), loosen the set screw above the needle and remove the needle.
- B. To replace needle, grasp needle with tweezers and position needle with the long groove facing left and the notch (scarf) facing right. Feed the point into the needle bar foot, and then the other end up into the needle bar assembly body. Ensure needle is completely inserted before tightening set screw. You should not feel needle below foot of assembly when needle is at its highest point. DO NOT OVER TIGHTEN!

CAUTION: REPLACEMENT NEEDLES MUST BE OF THE CORRECT TYPE AND INSTALLED CORRECTLY FOR PROPER MACHINE OPERATION.

Operation

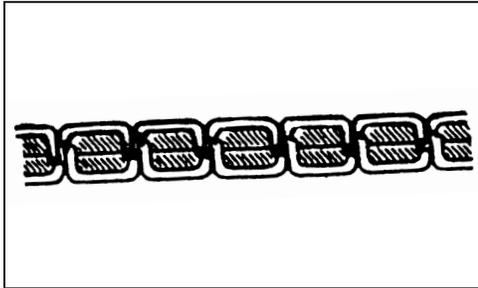


FIG. 7

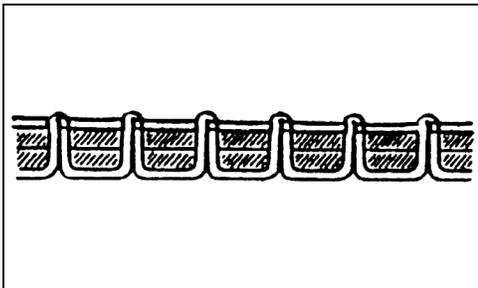


FIG. 8

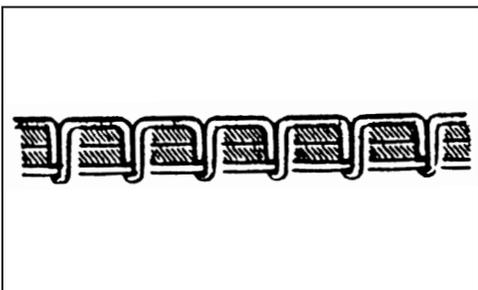


FIG. 9

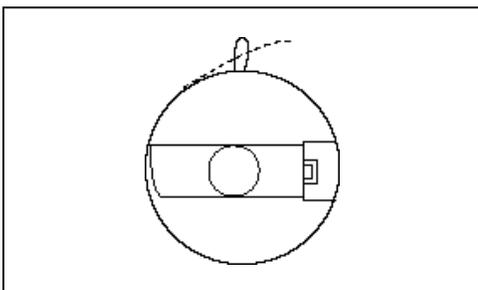


FIG. 10

THREAD TENSION

Proper and Improper Thread Tension

Proper thread tensions are important in obtaining optimal stitch appearance, proper knot location and tensions within the carpet being sewn.

When the upper and lower thread tensions are correct, the threads are knotted in the center of the carpet (Figure 7).

Excessive tension on the upper thread will result in looping of the bobbin thread on the top of the carpet (Figure 8).

Excessive tension of the lower thread will result in looping of the top thread on the bottom of the carpet (Figure 9).

Upper Thread Adjustment

To increase thread tension, turn the tension control clockwise. Conversely, turning counterclockwise will decrease tension.

Note: Make small adjustments (1/4" turns or less) until desired results are achieved. Whenever you rethread the machine, make sure the thread is properly seated between the tension discs. Lack of upper tension can result in looping of upper thread on bottom of carpet.

Lower Thread Adjustment

Remove bobbin case. Check that the bobbin spool is properly threaded in the case. Pull thread into slot and under spring into notch in case.

Thread must pass through eyelet in bobbin case for proper operation as shown in Figure 10. Tension on the bobbin thread should be light.

To test tension, hold the thread end and allow the bobbin case to hang freely. Give the thread a slight tug upward. If the tension is correct, the weight of the case will cause approximately 1" of thread to feed out.

To increase thread tension, turn the small slot screw on the case clockwise. Conversely, turning counterclockwise will decrease tension.

Note: Rotate the adjusting screw no more than 1/8" to 1/4" turn at a single time, until desired result is achieved. Recheck spool threading after each test and before reinstalling case in machine. Over time, thread dust will accumulate between the spring and case which can cause erratic tensions. To correct, remove screw and spring and clean.

THREAD TENSION—CONTINUED

Installation and Threading of Binding Tape

Included with your machine are:

- Binding tape discs (front and back)
- Binding tape centering plug
- Binding tape (1/2 gross)

1. Mount the Tape Reel

- A. Place the back disc on spindle.
- B. Slide the plug onto spindle.
- C. Place tape reel on centering plug so that tape will feed off reel in a CLOCKWISE direction from the bottom of the roll.
- D. Slide remaining disc with locking collar onto spindle. Allow space for free tape feed.
- E. Tighten thumb screw.

Note: Tape reel *MUST* roll freely between discs.

2. Thread Tape

- A. Trim tape end to provide a long sharp point.
- B. Start tape end into folder inlet. Do NOT thread through tape guide on folder at this time.
- C. Using a tweezer point in the folder slot, push the tape until you can grasp tape end at folder exit.
- D. Lift feed roller and pull several inches of tape through folder. Pull tape back under needle and feed roller and drop feed roller.
- E. Threading the binding tape through only one of the tape guides (the guide closest to the opening as shown in Figure 11) is recommended. Using more than one tape guide will increase tension on the tape and could cause the carpet to curl.

Note: If using serge tape, do not use any guides. Spooling tape off from the top of the roll (in a counterclockwise direction) instead of the bottom will increase tension on the tape. Due to the softness of the serge tape, extra tension can greatly improve results and eliminate missed stitches on the back.

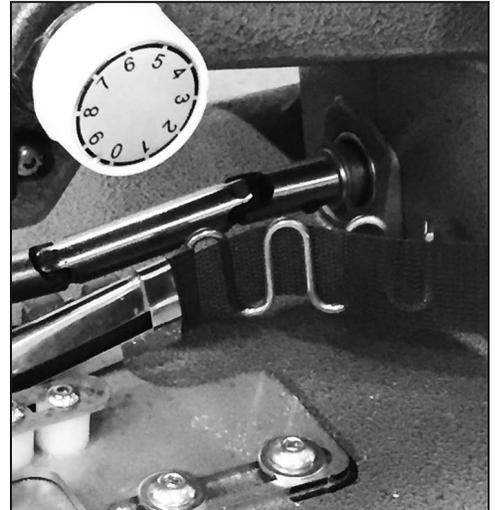


FIG. 11

Operation

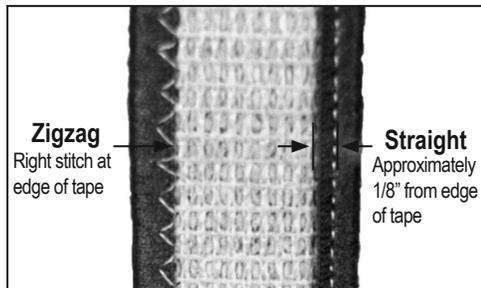


FIG. 12



FIG. 13

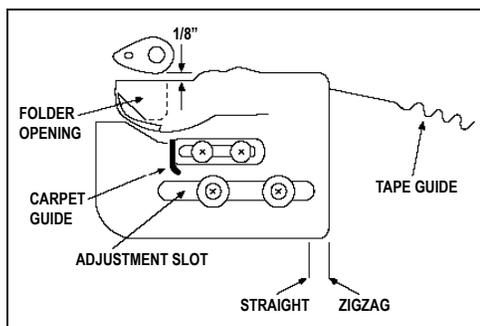


FIG. 14

STITCHING

Changing Between Zigzag and Straight Stitch Modes

Examples of zigzag and straight stitching are shown in Figure 12 (as seen from the back of carpet, 7/8" binding tape shown).

The machine is shipped in Zigzag mode. Change between Zigzag and Straight Stitch modes as follows:

1. Turn the handwheel toward you until the needle returns to the highest point. Do not make this adjustment with the needle below the needle plate or in the carpet.

Note: This step must be done first to avoid breaking the needle.

2. Set the stitch control lever to the desired setting—right lever position is Zigzag, left position is Straight Stitch.
3. Adjust the folder mounting bracket to the proper position. Zigzag position is shown in Figure 13. The Straight Stitch position is approximately 1/4" to the left. Loosen the two button head cap screws to adjust the bracket to the desired position.



CAUTION: KEEP THE PRESSER FOOT NEEDLE BLOCK ASSEMBLY FROM HITTING THE FOLDER BY ALLOWING APPROXIMATELY 1/8" SPACE BETWEEN THEM (FIGURE 14).

When correctly adjusted the folder positions can be marked on the machine around the mounting bracket using a permanent marker.

Use of the carpet guide is optional. If used, it should be aligned with the inside edge of the folder mouth so it doesn't block the opening. See Figure 14.

Preparing to Stitch

1. Change machine to Zigzag mode.
2. Grasp the upper thread and binding tape in your left hand, and pull back under feed roller. Drop feed roller and run machine in short bursts until stitching occurs in binding tape. The feed roller should move the tape as it stitches.

Stitching

1. Rotate handwheel towards you until needle is at highest point.
2. Insert carpet edge into folder mouth and up under needle.
3. Begin sewing. (It may be necessary to push material slightly at this point to engage it under feed roller).

Note: If stitch missed the tape on the bottom, refer to Folder Adjustments section.



CAUTION: WHILE SEWING, NEVER PULL ON CARPET OR MACHINE. THIS CAN CAUSE NEEDLE DEFLECTION WHICH CAN RESULT IN NEEDLE BREAKAGE AND/OR DAMAGE TO THE SHUTTLE PARTS.

STITCHING—CONTINUED

Stitching Around a Corner

1. Stop sewing and if necessary, rotate handwheel towards you until needle is in carpet at corner.
2. Raise feed roller.
3. Alter direction of material (or machine).
4. Lower feed roller and resume sewing.

Note: *Be careful not to pull the tape too tight as this will cause the carpet to curl up at the corners.*

Removing Carpet

1. Raise feed roller.
2. Rotate handwheel toward you until needle is at highest point.
3. Pull carpet out to your left (or move machine to the right).
4. Cut thread and binding.

Important Points

- Carpet types such as berber or those with a stiff or heavy backing may require application of a sewing softener prior to binding—Windex Clear works well for this. Do NOT over-apply the softener as this can cause the backing to delaminate.
- Using a #23 needle is recommended for berbers.
- A wide gap folder with a larger mouth is available in 1-1/4". This folder works better with heavy berbers or thick unbeveled carpet. See Accessories section.
- A good gauge for carpet height capability is one that will easily pass through the mouth of the folder. Above that, beveling is necessary. Good rule of thumb: Weights above 40 oz. should be beveled for best results.

Operation

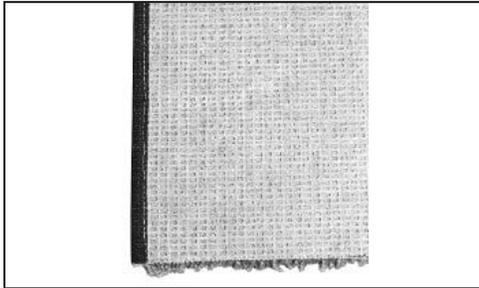


FIG. 15

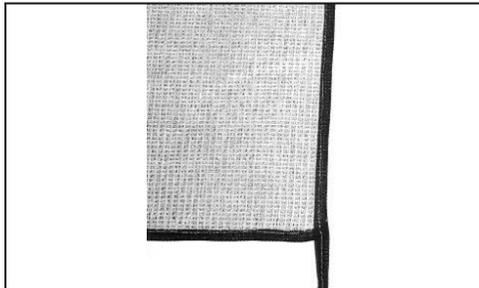


FIG. 16

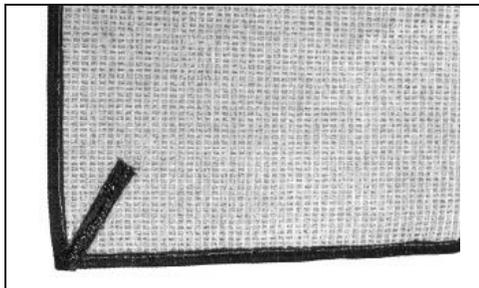


FIG. 17

BINDING CORNERS

Outside Corners

Outside corners can be done in three ways:

METHOD 1

1. Sew first side, then trim flush with edge (Figure 15).
2. Sew over trimmed end leaving a 2-3" tail at the start (Figure 16).
3. Repeat Steps 1-2 on each corner.
4. When completed, fold and glue each corner (Figure 17).

BINDING CORNERS—CONTINUED

METHOD 2

1. Sew first side leaving a 2-3" tail (Figure 18).
2. Fold tail under (Figure 19).
3. Place carpet in folder and sew down the next side (Figure 20).
4. Repeat Steps 2 and 3 on each corner.
5. When completed, fold and glue all the strips down (Figure 21).

METHOD 3

Sewing around corners is more difficult. Corners done in this manner are usually not as sharp as those done by folding over and gluing. Zigzag should be used on corners. Straight stitching is not recommended.

1. Slow machine down.
2. Stitch up to corner, then stop machine.
3. Raise feed roller.
4. With the needle down part way, turn machine or carpet.
5. Drop feed roller and continue sewing. See Figure 22.

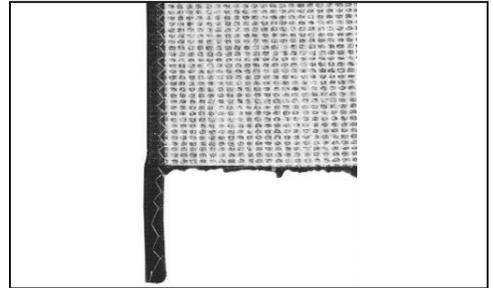


FIG. 18

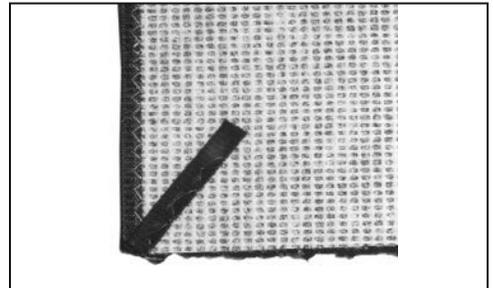


FIG. 19

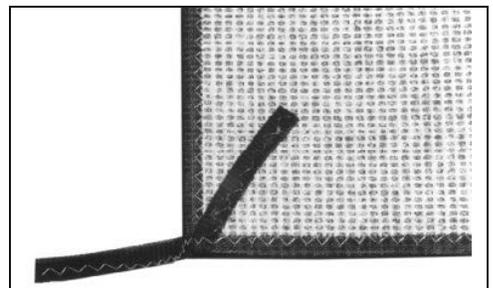


FIG. 20

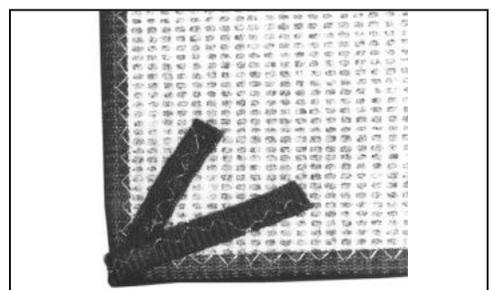


FIG. 21

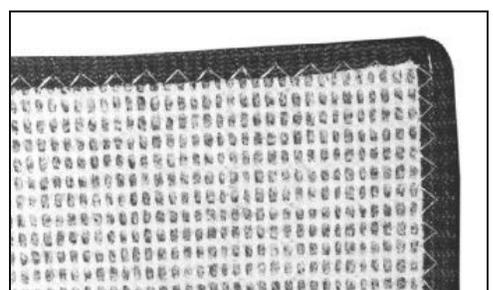


FIG. 22

Operation

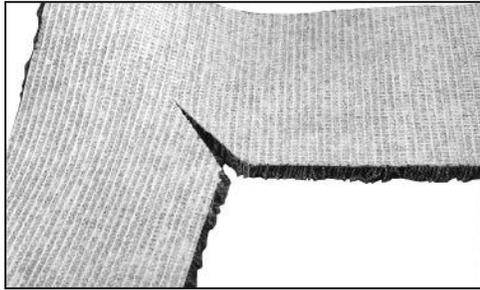


FIG. 23



FIG. 24

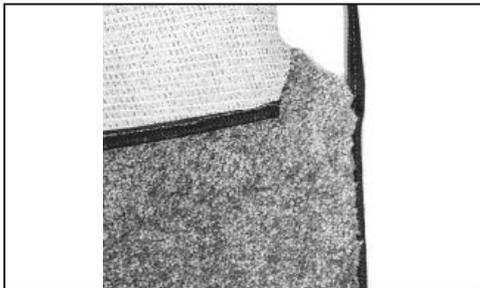


FIG. 25



FIG. 26

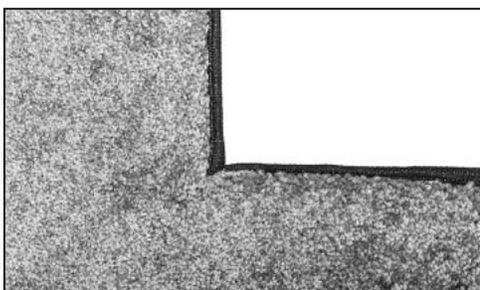


FIG. 27

BINDING CORNERS—CONTINUED

Inside Corners

Inside corners can be done in two ways:

METHOD 1

1. Cut the carpet back at the corner (Figure 23).
2. Fold back at cut and sew over end (Figure 24).
3. Fold back sewed side. Start at cut. See Figure 25.
4. Use seam tape to close cut and glue back tails on tape. See Figure 26.
5. Figure 27 shows the top of the completed corner.

BINDING CORNERS—CONTINUED

METHOD 2

1. Sew first side into corner as far as possible leaving enough binding tape to reach the corner when hand stitching the rest.
2. Slide carpet in from back of machine (as close to the corner as the machine will allow) leaving a starting tail and continue sewing. See Figures 28 and 29.
3. Hand stitch or staple bind:

Hand Stitch: Use a needle and the tape tails and thread leftover from machine sewing (Figure 30).

Staple Bind: Trim tails off and staple the 1-1/4" tape on the top edge of carpet overlapping sewn portion a bit (Figure 31). When stapling is complete, fold over tape to the back of the carpet and glue.

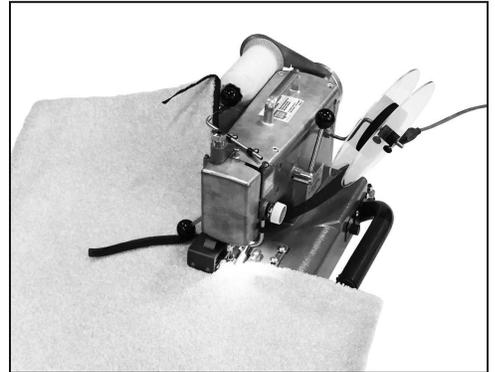


FIG. 28

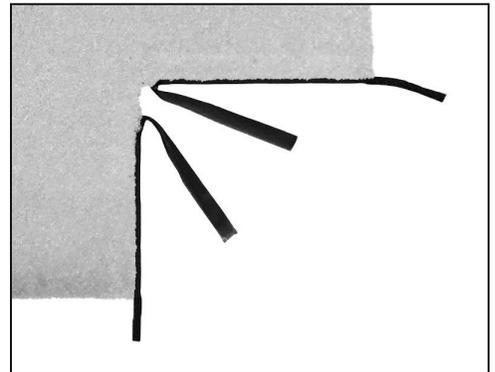


FIG. 29

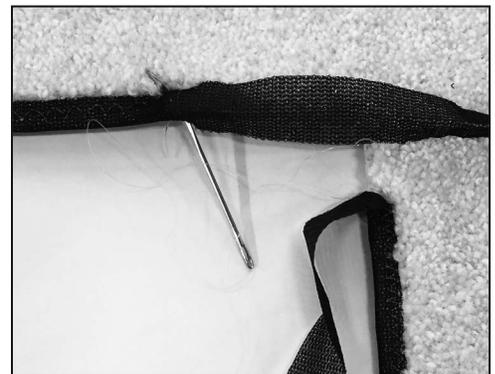


FIG. 30



FIG. 31

Operation

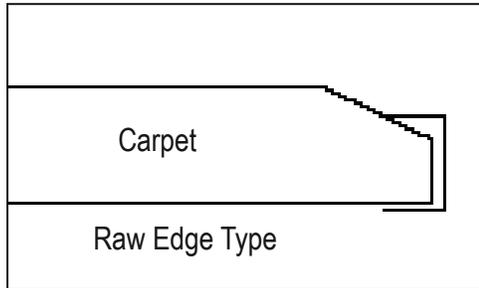


FIG. 32

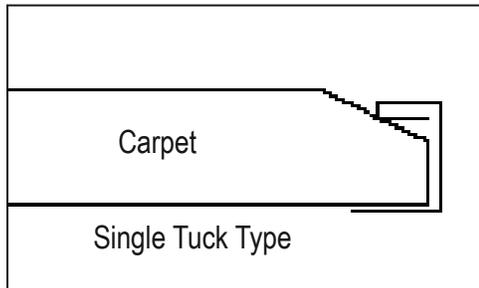


FIG. 33

FOLDER OPTIONS

The machine comes complete with a folder mounting bracket. Customers must choose one of the following folders with their purchase:

- 7/8" Folder (P/N 126-154)
- 1-1/4" Folder (P/N 126-D-F)
- 1-1/4" Wide-Mouth Folder (P/N 126-D3-F)

The following are available folder types. See Accessories section for sizes and part numbers.

Raw Edge Type (Figure 32):

- Standard
- Wide Mouth

Single Tuck Type (Figure 33):

- Tucks top edge under

OPERATING TIPS

General

- Always check the needle condition and the amount of bobbin remaining before starting a job.
- It is good practice to run a short strip of scrap whenever changing carpet types to check for stitch placement and binding fold.
- Never pull on the machine or carpet during operation. The feed roller and needle stroke are timed to prevent carpet movement while the needle is in carpet. When binding corners with feed roller up, use care in feeding carpet.
- When binding berbers, install a #23 needle. Application of a sewing softener may be necessary prior to binding—Windex Clear works well for this. Do NOT over-apply the softener as this can cause the backing to delaminate.
- Always use a lubricant when attempting to bind Unibond/unitary-backed carpet. Otherwise the thread and needle will pick up the plastic from the backing, transfer it to the shuttle parts and cause thread tangling and breakage. (Depending on the carpet construction sewing Unibond/unitary-backed carpet may not be possible.)
- If you hear the needle hitting, stop immediately and inspect the needle and shuttle area parts.

Binding

- Straight stitch or zigzag is a matter of preference.
- The zigzag stitch is durable and more forgiving when trying to stay on the edge of the binding.
- With some types of backing the perforations of straight stitching can cause the edge to break, especially when using the heavy #23 needle.
- Straight stitching uses less thread which means bobbin thread goes farther. Straight stitching is great for wall base.
- Heavy carpets such as berbers are easier to bind with a straight stitch. The machine may skip stitches in Zigzag mode.
- If the binding tape is uneven (more on top than bottom or vice versa), see the Folder Adjustment procedure.

Binding Corners

- Binding corners requires some practice. A good way to learn is to cut 4 approximately 1' squares of carpet and bind them. You will gain a lot of experience by the time you finish the last corner.
- Slowing the machine down with the speed control will also aid in making corners, circles and curves.
- A glue gun is generally used to lock corners down.
- Feed roller pressure may be reduced to make turning the machine easier by turning the upper pivot pin screw (P/N 403574) counterclockwise a half turn at a time. When operating with less pressure, use care not to force the machine and deflect or break the needle. Feed roller height is changed by loosening the set screw in the lift dog on the feed roller lift shaft.

Wall Base Binding

If carpet starts to curl when binding, it is usually caused by tension on the binding tape. Check the discs to make sure they are not squeezing the tape. Bypass the tape guides on the folder and feed the tape directly into the folder. Dry Teflon lubricant may be sprayed on both sides of tape spools.

Maintenance



FIG. 34

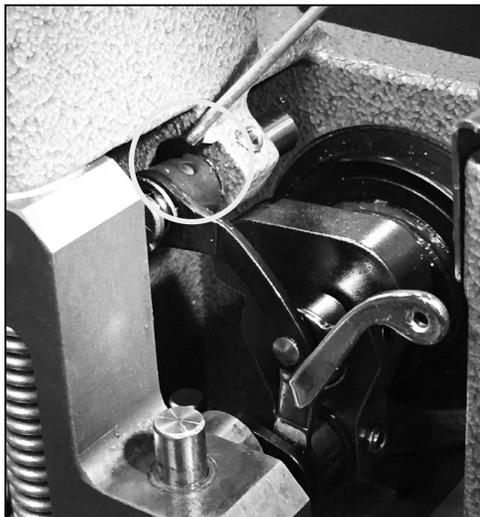


FIG. 35

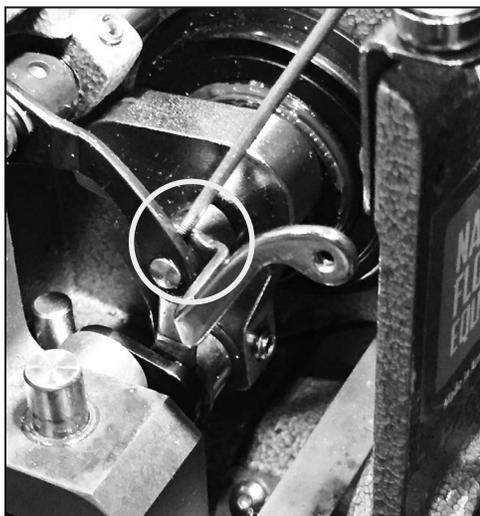


FIG. 36



WARNING: FOR YOUR SAFETY, DISCONNECT THE POWER SOURCE TO THE BINDER BEFORE ATTEMPTING TO SERVICE OR ADJUST THE MACHINE.

LUBRICATION

Regular lubrication of your machine is essential to proper operation and long service. Use the lubricant that is supplied with the machine. Lubricate **ONLY** the components specified below. All other bearings are Oilite and should not be lubricated.

Shuttle Area

1. Remove bobbin case, race cover and hook.
2. Inspect and, if necessary, clean each time you change bobbins or after a maximum of one hour of continuous running.
3. Thoroughly clean the race cover, hook and inner race. (An old needle works well to remove grime from inner race corners.)
4. Apply a light film of lubricant on the hook, inside of race cover and inside the shuttle body.

Needle Bar

Perform after approximately 8 hours of running time. Open end door and lubricate the entire needle bar (Figure 34). This is also a good time to check and retighten all screws.

Needle Bar Linkage

Perform after approximately 8 hours of running time. Open end door and lubricate the needle bar linkage as shown in Figures 35 and 36.

NEEDLE HEIGHT ADJUSTMENT

Checking Needle Height

This adjustment should be checked if the machine skips stitches or after the machine jams or a needle has broken.

1. Install the new needle **incorrectly** with the scarf to the outside (left) rather than inside (right). See Figure 37.
2. Remove bobbin case (Figure 38).
3. Remove race cover (Figure 38).
4. Leave hook in shuttle (Figure 38).
5. With needle reversed so the scarf faces out (See Figure 39), tilt machine at an angle so the shuttle area is visible. As you turn the handwheel counterclockwise, the hook will travel clockwise; reverse rotation and travel counterclockwise to a position where the point of the hook is approximately 1/8" to the left of the needle and reverse rotation again. When the point of the hook is just in line with the left side of the needle, the point of the hook should be in the center of the scarf (approximately 1/8" above the center of the eye of the needle).
6. Important! When completed, install the needle properly with the scarf to the right.

Note: Needle bar height may change due to jamming the machine or breaking a needle and should be checked if stitches are skipped or the thread breaks.

Adjusting Needle Height

1. Loosen set screw located in needle bar drive collar (Figure 40).
2. Slide needle bar to align hook with center of scarf (Figure 39).
3. Tighten set screw in drive collar.
4. Recheck needle height.

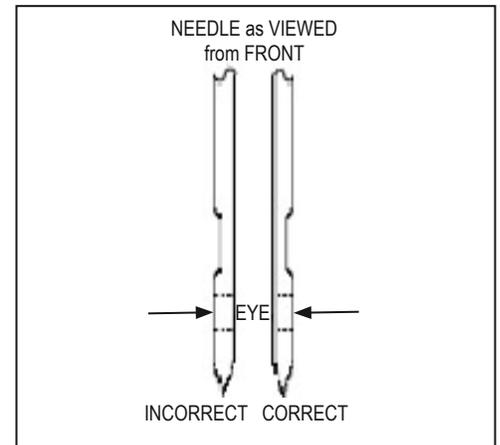


FIG. 37



FIG. 38

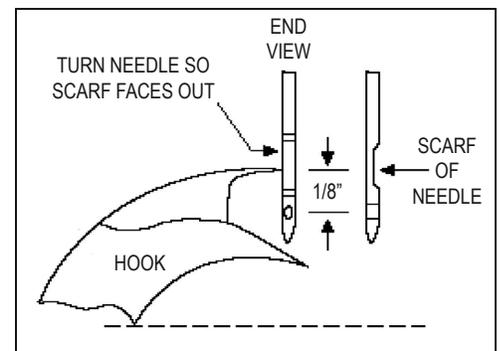


FIG. 39

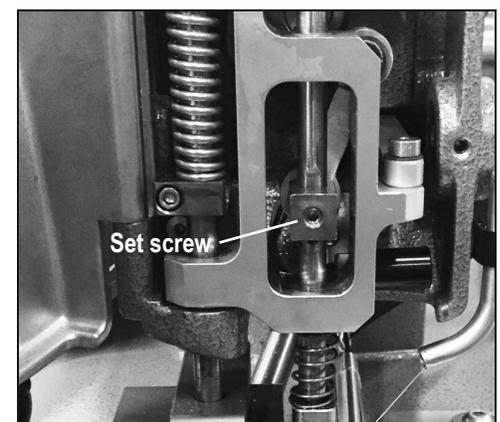


FIG. 40

Maintenance

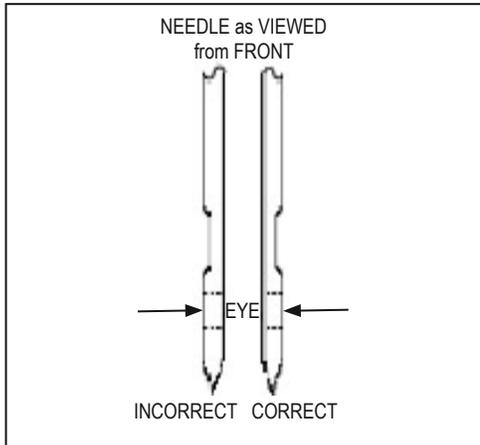


FIG. 41

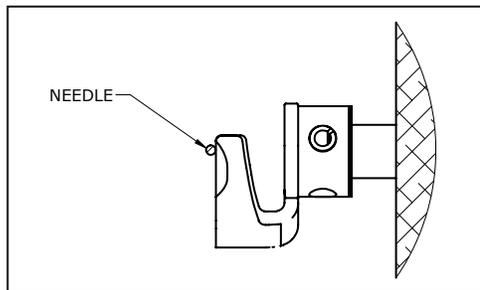


FIG. 42

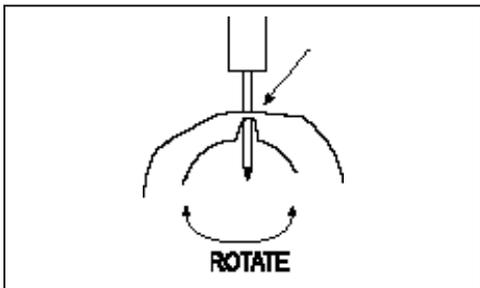


FIG. 43

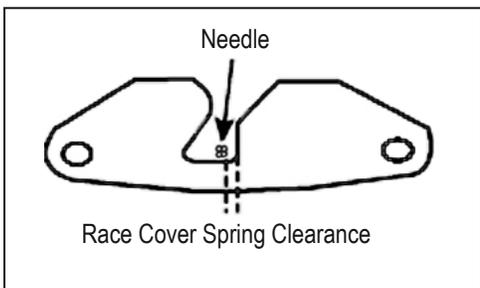


FIG. 44

NEEDLE-TO-DRIVER SETTING & RACE COVER SPRING CLEARANCE

Note: These settings seldom change or need adjustment.

Checking Needle-To-Driver Setting & Race Cover Spring Clearance

1. Remove bobbin and hook.
2. Clean the shuttle area, hook and race cover prior to adjusting.
3. Install new needle correctly with the scarf to the inside of the machine (Figure 41).
4. Install race cover.
5. Tilt machine at an angle so that the shuttle area is visible. Turn the handwheel counterclockwise until the driver passes behind the needle at bottom dead center of stroke. The driver should just touch, but not deflect the needle (Figure 42). This setting should be made in the Zigzag position and the needle checked so it does not deflect on either the inside or outside stitch. The needle should also be centered in the race cover spring notch (Figure 44).
6. Install hook.
7. Check needle-to-hook clearance. If driver is positioned properly, hook will pass right behind needle (Figure 42).
8. If either of these settings is out of adjustment, adjust as follows.

Adjusting Needle-To-Driver Setting & Race Cover Spring Clearance

1. Loosen Torx screw on shuttle drive clamp (Figure 45).
2. Move shuttle body in or out as necessary to get driver behind needle, and move it left or right to center needle in race cover spring (Figures 43 and 44).
3. Tighten Torx screw slightly.
4. Double check clearance, then tighten Torx screw completely.

Note: Symptoms of a problem with this adjustment are dents on the race cover spring and burrs on the hook caused by the needle hitting them.



Shuttle area as viewed from bottom.

FIG. 45

FOLDER ADJUSTMENT

The machine is shipped with the folder positioned as shown in Figure 46. (Folder is shown removed from machine for clarity.) The tail is lowered with the folder mouth flat against the base of the machine. With the folder in this position, the tape should fold more to the back of the carpet.

The folder can be adjusted as follows. Make adjustments in slight increments until desired outcome is achieved.

1. Loosen the mounting screws.
2. Raise the folder tail while keeping the folder mouth flat against the base.
3. Retighten the mounting screws.

With the folder positioned as shown in Figure 47, the tape should fold more to the front of the carpet.

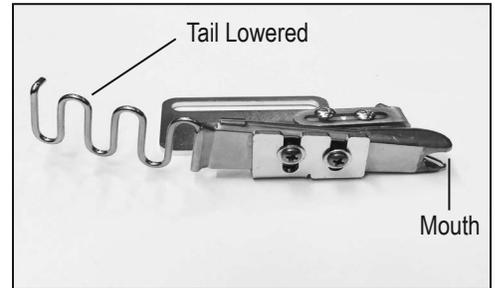


FIG. 46

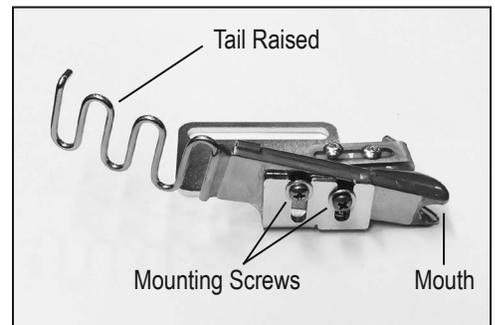


FIG. 47

Troubleshooting Guide



WARNING: FOR YOUR SAFETY, DISCONNECT THE POWER SOURCE TO THE BINDER BEFORE ATTEMPTING TO SERVICE OR ADJUST THE MACHINE.

Problem	Cause	Solution
Skipping	Bad needle	Check needle. Deburr or replace if needed.
	Dirty shuttle area	Clean shuttle area and lubricate.
	Needle height or clearance out of adjustment	Check adjustment.
	Damage to shuttle hook or race cover spring	Check shuttle hook and race cover spring. Repair or replace if needed.
Breaking needles	Needle not installed properly	Check needle.
	Operator forcing carpet or machine	Let machine do the work.
	Race cover spring clearance out of adjustment	See instruction manual.
	Carpet type (i.e. berbers)	Test on another type of carpet. Use softener on berber.
	Puller timing/function	Check that puller is turning when needle is up—no loose screws on rollers or connection to drive arm.
Upper thread breaking	Needle clearance out of adjustment	Check adjustment.
	Bad needle	Check needle.
	Upper tension set too high	Check tension.
	Carpet type	Test on another type of carpet.
	Dirty shuttle	Clean shuttle area and lubricate.
	Burrs on shuttle area	Inspect shuttle parts and deburr.
	Burrs on bottom of needle plate	Inspect and deburr.
	Bad upper thread	Attempt to break between hands.
	Threading wrong	Check thread path.
	Needle height	See instruction manual.
	Splice knot in thread spool	Spool off and throw thread beyond knot and rethread.
Upper thread loops on carpet bottom	Upper thread not inserted properly in tension control	Check that thread exiting tension control has proper drag.
	Too little upper tension	Check tension setting.
	Dirty shuttle area	Clean shuttle and lubricate.
	Needle height	See instruction manual.
Upper thread tangles in shuttle and/or on carpet bottom.	Binding on carpet with plastic backing (Unibond)	Use lubricant.
	Burrs on shuttle hook	Deburr hook.
	Binding carpet with backing where glue is not dry	Allow to dry and/or use lubricant on needle.

Troubleshooting Guide

Problem	Cause	Solution
Won't pick up bobbin thread	Needle height or clearance out of adjustment	See instruction manual.
	Bobbin tension incorrect	Check tension.
	Damaged bobbin tension spring	Replace spring.
	Needle in wrong	Check needle.
	Too short of thread lead from bobbin case	Leave 2" of lead.
Bobbin thread breaks	Bad bobbin	Check thread strength.
	Burr on shuttle hook or race cover or bad bobbin case spring	Check each item.
Stitch misses top or bottom of binding	Change in type of binding tape	Check.
	Cannot use cotton binding in polyester folder	Check.
	Carpet too thick	Bevel carpet.
	Need to adjust folder position	See instruction manual.
Bobbin thread loose on bottom of binding	Damaged or loose bobbin tension spring	Check spring.
	Dirt between bobbin tension spring and bobbin case	Remove spring and clean surfaces
Bobbin case pops out	Bobbin case not latched	Check.
	Latch spring broken	Check latch and spring.
	Needle clearance too wide	Check adjustment.
Carpet curling	Binding tape too tight	See Operating Tips section.
Machine won't start	Circuit breaker tripped	Ensure no other equipment is running off the breaker and reset breaker.
	Power cord disconnected	Check for damaged cords/plugs, ensure cords are properly connected.
	Ground fault related failure	Ensure ground fault protection devices are properly functioning and installed. Reset ground fault protection device.
	Loose wiring block or wires	Plug in completely.
	Loose fuse.	Plug in completely and turn.
	Internal component failure	Contact NFE for service.

Complete Parts List

PART#	DESCRIPTION	QTY	PART#	DESCRIPTION	QTY
126-03G	Guide, Thread	1	403514	Washer, Lock, Belleville, 1/4", Black Steel	15
126-100	Shaft, Flex, Drive, with Screws	1	403516	Screw, Socket Head Cap, 1/4-20 x 7/8, Clear Zinc	6
126-112-1	Case, Bobbin, with Eyelet	1	403517	Washer, Lock, Belleville, #10, Black Steel	19
126-113	Hook, Shuttle	1	403518	Screw, Button Head Cap, 10-24 x 1/2, Black Oxide	18
126-158	Spring, Needle Bar	1	403519	Screw, Socket Head Cap, 1/4-20 x 5/8, Clear Zinc	2
126-160	Assembly, Needle Bar Drive Link	1	403520	Screw, Socket Head Cap, 1/4-20 x 1, Clear Zinc	2
126-161	Screw, Needle Bar Drive Link	1	403521	Screw, Socket Head Cap, 1/4-20 x 1-1/4, Clear Zinc	1
126-165	Pin, Needle Bar Drive Link, with E-Clip	1	403530	Assembly, Cam Shaft, Large Gear	1
126-172	Assembly, Needle Bar and Presser Foot	1	403535	Camshaft, Main	1
126-1821	Knob, Lift Handle	3	403536	Counterweight, Front	1
126-B1A	Needle, 140 22, Pk 10	1 PK10	403537	Gear, 20 Tooth, Modified	1
126-DISC1	Disc, Binding Tape, 8.75"	1	403538	Key, Square, .125 x 3.0	1
126-DISC2	Assembly, Disc, Front, 8.75"	1	403539	Key, Square, .125 x 1.5	1
126-P47B	Box, Binding Brute	1	403540	Key, Square, .125 x .75	1
2045	Oiler, Brute	1	403541	Key, Square, .125 x .38	1
400340	Screw, Set, Cup Point, 6-32x3/16	2	403545	Weldment, Handle	1
401694	Washer, Shim, .375 x .625 x .010	2	403546	Screw, Button Head Cap, 1/4-20 x 1/2, Clear Zinc	8
402362	Washer, Flat, #8, SAE, Clear Zinc	5	403548	Bracket, Thread Spool	1
402461	Label, National Logo, 1.5 x 1.5	1	403549	Stud, Fully Threaded, 1/4-20x 6", 18-8	1
402679	Spring, Compression, .480 x 3.25 x .075	1	403552	Tube, Top Guide	1
403413	Assembly, Arm, Lower, Zig Zag	1	403553	Clamp, Nylon Loop, 1/4" ID, Black	3
403420	Clamp, Shuttle	1	403554	Screw, Button Head Cap, 8-32x 1/4, Clear Zinc	3
403421	Clamp, Shuttle Drive	1	403556	Tube, Lower Guide	1
403425	Counterbalance, Main	1	403558	Wheel, 1.75	2
403440	Pulley, 40 Tooth, Modified	1	403559	Bearing, Sleeve, 5/16 IDx 3/8 ODx 1/2"	2
403441	Handwheel	1	403562	Assembly, Cam Shaft, Selector	1
403451	Screw, Socket Head Cap, 6-32 x 3/4, Clear Zinc	3	403565	Block, Stop, Selector	1
403452	Washer, Lock, Belleville, #6, Black Steel	7	403566	Arm, Selector	1
403458	Washer, Lock, Belleville, #8, Black Steel	4	403567	Screw, Set, Extended Point, 10-24 x 1/4"	1
403462	Bearing, Sleeve, 1/4" ID x 7/16" OD x 5/8"	1	403568	Plunger, Ball Nose Spring, 1/4-20x .531, 4-12#	1
403463	Assembly, Shaft, Shuttle Drive	1	403570	Handle, Lift, Puller	1
403466	Collar, Clamping Shaft, 9mm Shaft	1	403571	Screw, Shoulder, Ultra Low, 3/16x 3/8", 8-32 Thread	1
403467	Bolt, Shoulder, 1/4 x 11/16, 10-32, Stainless Steel	1	403574	Pin, Upper Pivot	1
403469	Assembly, Shuttle Link	1	403575	Shaft, Lift, Roller Foot	1
403471	Assembly, Drive Shaft, Zig Zag	1	403576	Block, Cam, Feed Roller Lift	1
403473	Assembly, Zig Zag Link	1	403577	Holder, Drive Link, Needle Bar	1
403476	Roller, Track, Stud Mounted, 3/8" OD, 8-32 Thread, 50lb	1	403581	Screw, Socket Head Cap, 6-32 x 5/16", Zinc-Plated	1
403477	Bolt, Shoulder, Thread-Locking, 3/16 x 5/16, 8-32, Stainless Steel	4	403583	Screw, Set, Cup Point, 10-24x 1/4, SST	6
403479	Spring, Extension, .50 x .062, 2.50, 63.96 in/lb	1	403585	Plate, Base Cover	1
403480	Key, Square, .094 x 1.0, Lower Arm	1	403588	Plate, Base Cover, Rear	1
403481	Stop, Zig Zag	1	403590	Handle, Pull, 4-9/16, 10-32 Thread, Aluminum	1
403486	Ring, Retaining, External, Axial, 5/16", Phosphate	1	403591	Screw, Flat Head Cap, 10-32x 3/4, Clear Zinc	2
403487	Assembly, Drive Fork with Bearing	1	403599	Plunger, Retractable Spring, Brass Knob, 10-32x .35"	1
403488	Bolt, Shoulder, 1/4 x 1/2, 10-24, Stainless Steel	2	403601	Mount, LED	1
403489	Assembly, Connecting Rod, Shuttle Drive	1	403603	Screw, Button-Head Cap, 6-32 x 1/4", Zinc-Plated	3
403492	Assembly, Connecting Rod, Feed Roller	1	403607	Screw, Button Head Cap, 4-40 x 3/8, Clear Zinc	4
403495	Shaft, Drive, Feed Roller	1	403608	Washer, External-Tooth, #4, Clear Zinc	4
403496	Ring, Retaining, External, Axial, 5/8", Yellow Zinc	2	403609	Spindle, Binding Tape	1
403497	Assembly, Drive Arm, Feed Roller	1	403671	Washer, Flat, #6, SAE, Clear Zinc	2
403499	Cam Lobe, Shuttle Drive	1	403672	Mount, Folder, Small	1
403502	Case, LH, Machined	1	403673	Guide, Folder, Small	1
403505	Cover, Top, Machined	1	403676	Assembly, Needle Bar Carrier	1
403506	Door, Front, Machined	1	403678	Plate, Cover, Upper Rear	1
403507	Pin, Hinge, Front Door	1	403687	Cam Lobe, Feed Roller	1
			403688	Ring, Retaining, External, Axial, 1", Phosphate	1
			403689	Case Subassembly, RH	1

Complete Parts List

PART#	DESCRIPTION	QTY	PART#	DESCRIPTION	QTY
403690	Assembly, Base Plate, Complete	1	404261	Harness, DC Supply, 24V, .5A	1
403692	Assembly, Plate, Small Roller	1	404262	Harness, Trigger Switch, 125V, 16A	1
403694	Assembly, Double Puller	1	404263	Harness, LED, 12V, 40mA	1
403702	Screw, Flat Head Cap, 6-32 x 5/16, Clear Zinc	8	404266	Harness, Main, BindPro	1
403887	Assembly, Plate, Large Roller	1	404267	Harness, Speed Control, Potentiometer, 20k Ohm, .25W	1
403891	Nut, Hex, Nylon Insert, 10-24, Zinc Plated	3	404284	Washer, Shim, .35 x 1/2 x .032	1
403943	Screw, Button Head Cap, 10-24 x 1, Black Oxide	1	404335	Washer, Shim, 1/4 x 3/8 x .010	1
403944	Screw, Button Head Cap, 8-32 x 3/8, Clear Zinc	3	404336	Washer, Thrust, 5x9.5x0.6mm, Polymer	4
403945	Washer, External-Tooth, #10, Clear Zinc	1	404337	Plug, Snap-in, 1.21-1.3 ID	1
403946	Holder, Cartridge Fuse	1	404338	Meter, Hour, 4.5-60VAC/VDC, 50-60Hz	1
403947	Fuse, Cartridge, 3AG, 10amp, 312 Series	1	404339	Screw, Socket Head Cap, #8-32 x 3/8, Torx	2
403948	Spacer, Nylon, .50 OD x .44	2	404721	Assembly, Control, Tension	1
403949	Screw, Button-Head Cap, 8-32 x 5/8", Zinc-Plated	4	404934	Bracket, Roller, Left, Binder	1
403950	Controller, Motor, Oriental	1	404935	Bracket, Roller, Right, Binder	1
403951	Grommet, Rubber Push-In, 1-1/4" ID	1	405146	Body, Shuttle, with Modified Race Cover	1
403955	Terminal Block, 3 Circuits, 20 Amps@300VAC, 5 Amp @600VAC	1	405166	Bracket, Extension, Spring	1
403960	Housing, Motor Mount	1	405205	Pin, Spring, 5/32 x 3/4, Plain	1
403961	Spacer, Motor	1	405293	Screw, Set, Knurled, 8-32 x 1/4	14
403962	Bolt, Carriage, 1/4-20 x 1, Clear Zinc	2	72879	Tube, Shrink, Black, 1-1/2", 100' Roll	5 IN
403963	Motor, Drive, 115V, 90W	1	73008	Nut, Hex, Nylon Insert, 1/4-20	3
403964	Pulley, 26 Tooth, 12mm	1	73009	Nut, Hex, 1/4-20, Grade 2, Clear Zinc	1
403965	Belt, Timing, Camshaft	1	73091	Washer, Flat, Zinc, SAE 1/4	4
403967	Ring, Retaining, External, Axial, 1-3/4", Phosphate	2	73353	Bolt, Shoulder, 5/16 x 5/8, 1/4-20, Black Oxide	2
403968	Assembly, Drive Link, Needle Bar	1	74550	Screw, Phillips Pan Head Machine 6-40x3/8	2
403970	Washer, Flat, Lube-Filled Nylon, .322 ID x .562 OD, .028-.034 Thick	3	74562	Screw, Socket Head Cap, 8-32x1/2	2
404001	Screw, Button Head Cap, 4-40 x 7/8, Black Oxide	2	74565	Nut, Keps, 8-32	3
404088	Kit, Tool, BindPro	1	78-432	Tape, Binding 7/8" (2 rolls per pkg)	1
404089	Label, BINDPRO	1	8094-20	Roller, Transfer, 1"	2
404090	Label, Contact Info	1	L06	Label, Stitch	1
404191	Screw, Button Head Cap, 1/4-20 x 1.00	1	L130	Label, Brute Box	1
404259	Assembly, Cord, Power, 14/3, NEMA 5-15P, 1ft	1	L29	Label, Basic Operating Instructions	1
404260	Harness, DC Supply, 12V, 1A	1	L48	Label, Threading Instruction	1

Accessories & Attachments



FIG. A

THREAD

126-E Clear Thread

- Size #52 • 4,300 yards per spool • Comes with sock • For Binding Brute, BindPro

126-EH Clear Heavy-Duty Thread (Figure A)

- Size #63 • 3,500 yards per spool • Comes with sock • For Binding Brute, BindPro
- Shipped with machine



FIG. B

LUBRICANT

2045 Lubricant (Figure B)

- Oiler • 1 ounce • With extendable spout



FIG. C

BOBBINS

NFE uses the best nylon—not polyester.

- Tackified so they won't overspin in the bobbin case
- Sideless
- 80 spools per package

126-A1 Bobbin

- Style-A • Size O • 125 yards • Nylon

126-A2 Bobbin (Figure C)

- Style-A • Size D • 72 yards • Nylon • Heavy Duty
- Shipped with machine

126-A3 Bobbin

- Style-F • Size ASP • 80 yards • For use with binders other than NFE's



FIG. D

NEEDLES

NFE uses the strongest needles in the world. Schmetz HD Cutting Point will run smoother and last longer than any other needle.

126-B1A Needle

- 140/22 • 10 per package

126-B2A Needle (Figure D)

- 160/23 • 10 per package
- Shipped with machine

Accessories & Attachments

TOOLS

1840 Tweezers (Figure E)

- Deluxe bent 6" tweezers
- Included with accessory kit

1841 Small Screwdriver Set (Figure F)

- Contains two small screwdrivers with plastic handles
- Included with accessory kit

680 Thread Clip (Figure G)

- Length of cut: 1" • Full length: 4"
- Included with accessory kit



FIG. E



FIG. F

BINDING & SERGING FOLDER ASSEMBLIES

*126-C1 3/4" Raw Edge Cotton Folder

*126-C2 2-3/4" Raw Edge Wide Binding Folder

*126-C3 2" Raw Edge Folder

*126-C4 3" Raw Edge Folder

126-C7 4-3/4" Raw Edge Folder

126-CF 7/8" Raw Edge Binding/Serging Folder (Figure H)

126-D 1-1/4" Raw Edge Folder

126-D1 1-1/4" Single Tuck Folder

126-D3 1-1/4" Raw Edge Wide Gap Folder

- Great for heavy berbers or thick unbeveled carpet

*Special order size—sample of tape needed with order.

Note: Folders are made for NFE binders. Modifications may be required to fit other brand machines. Custom folders are available. Folder only may be ordered. Please call to inquire.



FIG. G



126-CF shown. Other models available.

FIG. H

BASE ATTACHMENT

403659 Base Guide Assembly (Figure I)

- Easily attaches to machine
- Adjustable for various base widths (adjusts from 2-1/2" to 6")
- Provides hands-free operation

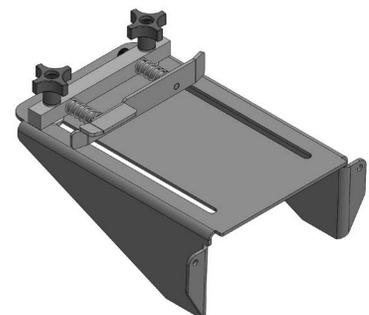


FIG. I

Accessories & Attachments



FIG. J

ACCESSORY KIT

404088 BindPro Tool Kit (Figure J)

Includes:

126-A2	Bobbins, Heavy Duty, Nylon, 72 yds, Size D	8 pcs
126-B2A	Needle, Size 23, Schmetz, Pk of 10	1 pkg
1840	Tweezer	1 pc
1841	Screwdriver, Set of 2	1 pc
680	Clip, Thread	1 pc
73127	Key, Allen Short Arm, 1/8	1 pc
73129	Key, Allen Short Arm, 5/64	1 pc
73132	Key, Allen Short Arm, 3/32	1 pc
73135	Key, Allen Short Arm, 5/32	1 pc
126-1000	Box, Tool, Orange	1 pc

Warranty

National Flooring Equipment Inc. (referred to as "The Company") warrants that each new unit manufactured by The Company to be free from defects in materials and workmanship in normal use and service for a period of 90 days from date of shipment from The Company to the end user. If shipment to end user is from a Distributor, The Company may extend warranty if the end user can provide documentation of receipt date. Accessories or equipment furnished and installed on the product by the Company but manufactured by others, including but not limited to: engines, motors, electrical components, transmissions etc., shall carry the accessory manufacturers own warranty. Battery warranties are pro-rated over the warranty period. Customer is responsible for the inspection of equipment or parts upon delivery. **Freight damages are excluded from this warranty.**

The Company, at its determination of defect, will repair or replace any product or part deemed to be defective in material or workmanship within specified warranty time period. All product determinations and / or repairs will take place at The Company repair facility or at a certified warranty location designated by The Company. The Company will coordinate and be responsible for all freight expenses associated with valid warranty claims. Freight and shipping expenses associated with abuse or misuse will be back charged to the Distributor/Customer. The Company reserves the right to modify, alter or improve any part / parts without incurring any obligation to replace any part / parts previously sold without such modified, altered or improved part / parts. In no event shall the seller or manufacturer of the product be liable for special, incidental, or consequential damages, including loss of profits, whether or not caused by or resulting from the negligence of seller and / or the manufacturer of the product unless specifically provided herein. **This warranty shall not apply to any products or portions there of which have been subjected to abuse, misuse, improper installation or operation, lack of recommended maintenance, electrical failure or abnormal conditions, and to products which have been tampered with, altered, modified, repaired, reworked by anyone not approved or authorized by the Company or used in any manner inconsistent with the provisions of the above or any instructions or specifications provided with or for the product.** Any and all unauthorized onsite warranty work conducted by unauthorized personnel or any outside person(s), is not covered by The Company unless the work has been pre-authorized by a predetermined manufacturer representative. This warranty excludes wearable parts and/or consumables.

Defective or failed material or equipment shall be held at the purchaser's premises until authorization has been granted by The Company to return or dispose of defective products. Products returned to The Company for inspection must be returned with a manufacturer authorized Return Material Authorization (RMA), and must be packaged to The Company's specifications to avoid damage during shipment. Any unauthorized return of equipment will be declined at the dock by The Company. Any non-approved items returned with approved returned items are subject to rejection and will not be credited. Credit will be issued for material found to be defective upon The Company's inspection based on prices at time of purchase.

TO OBTAIN SERVICE CONTACT NATIONAL FLOORING EQUIPMENT, INC. TOLL FREE AT 800-245-0267 FOR A REPAIR AUTHORIZATION NUMBER. COD FREIGHT RETURNS WILL NOT BE ACCEPTED. FREIGHT COLLECT SHIPMENTS WILL NOT BE ACCEPTED. WARRANTY REPAIRS MUST BE ACCOMPANIED BY DATE OF PURCHASE RECEIPT AND A RETURN/REPAIR AUTHORIZATION NUMBER.

RETURN/REPAIR AUTHORIZATION NUMBER: _____

MACHINE SERIAL NUMBER: _____



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