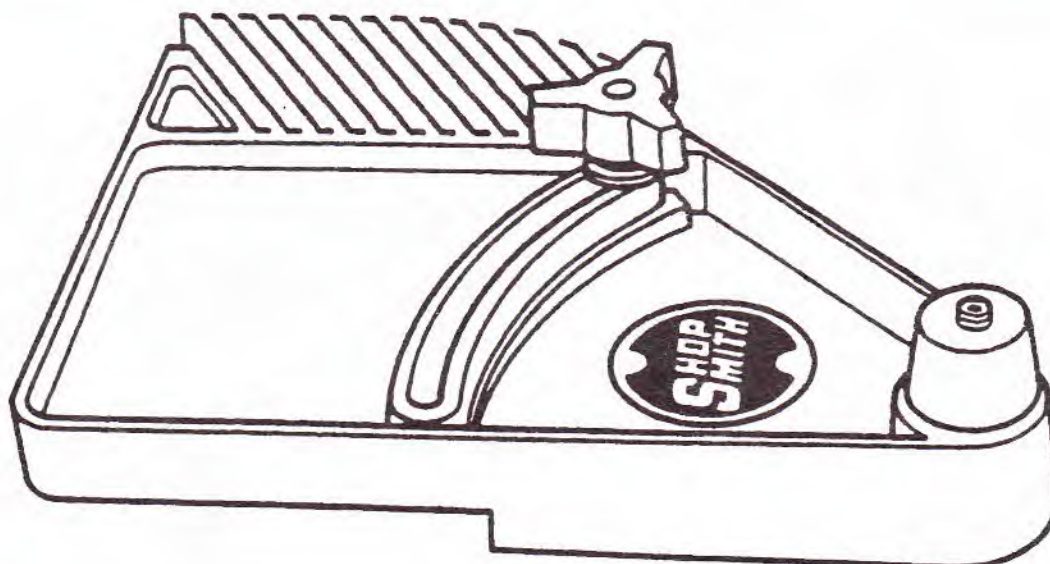




Jointer Feather Guard Upgrade

555480



WARNING

Read this owner's manual and follow the safety information. Then read and follow safety information in the jointer owners manual.

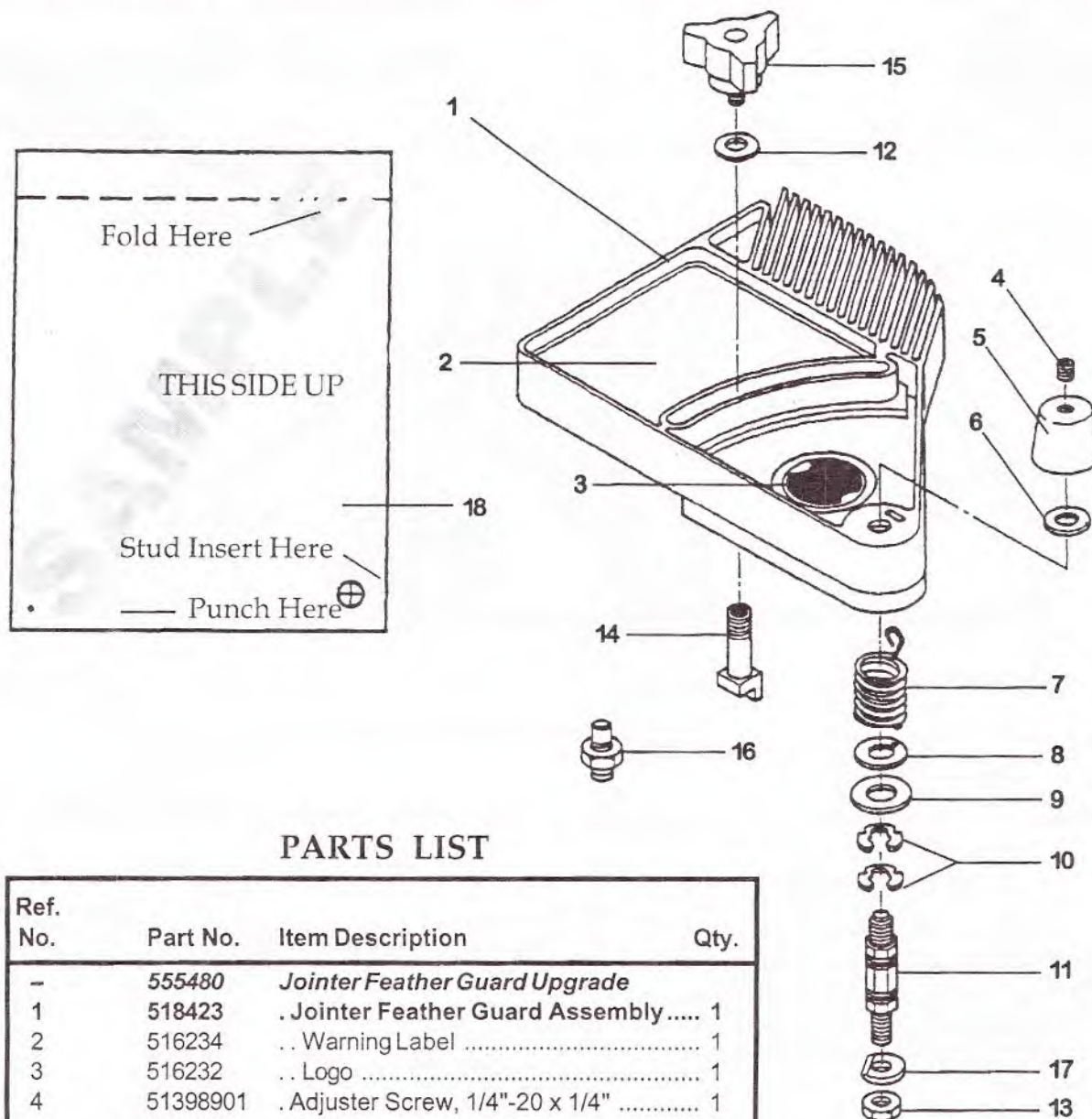
Table of Contents

Introduction	Front Cover
Parts List & Exploded View	2
Assembly	3
Operations	7
For Jointing	7
For Rabbeting	7

Introduction

The Jointer Feather Guard brings to your jointer the advantages of a feather board with the safety of a guard. It guards just like the older style guard, plus the Feather Guard presses the workpiece against the fence, which adds ease and control. This upgrades your jointer's older style guard to the new Feather Guard.

After you have followed the assembly instructions in this manual, read and follow the operation instructions. The operations instruction in this manual tell how to adjust the Feather Guard to be used in jointing or rabbeting. For other, more comprehensive instructions on operations, see your jointer owner's manual.



PARTS LIST

Ref. No.	Part No.	Item Description	Qty.
-	555480	Jointer Feather Guard Upgrade	
1	518423	. Jointer Feather Guard Assembly	1
2	516234	. . Warning Label	1
3	516232	. . Logo	1
4	51398901	. Adjuster Screw, 1/4"-20 x 1/4"	1
5	516401	. Knob	1
6	515847	. Thrust Washer	1
7	514196	. Spring	1
8	502909	. Torque Washer	1
9	514273	. Washer, 1/2"	1
10	514049	. Retaining Ring	2
11	514272	. Threaded Stud	1
-	516315	. Hardware Bag (includes 12-17)	
12	120393	. . Washer, 11/32"	1
13	513857	. . Hex Nut, 5/16" - 18	1
14	516221	. . Stop Pin	1
15	516222	. . Stop Knob	1
16	516226	. . Stop Stud Assembly 1/4 -28 Black	1
17	514274	. . Special Washer	1
18	516239	. Drilling Template	1

Tools Needed:

- ☐ 3/8" Drive Ratchet
- ☐ 1/2" Socket
- ☐ 7/16" Wrench
- ☐ 1/8" Allen Wrench (Optional)
- ☐ Variable Speed Drill
- ☐ 7/32" (or #3) Twist Drill Bit
- ☐ 1/4-28 Drill Tap and Tap Handle
- ☐ Precision Square
- ☐ Piece of Scrap Cardboard
- ☐ Hammer
- ☐ Center Punch
- ☐ Installation Kit-555482 (Optional)

Assembly**REMOVE THE OLD JOINTER GUARD****WARNING**

Makesurethejointer'spowersource(MARK V, Power Station or other) is turned off and unplugged.

1. Remove the fence from the jointer, and as you remove the fence, hold the cutterhead guard to prevent its spring from whipping the guard around uncontrolled. See Fig. 1



Fig. 1

2. Guide the guard as it completely unwinds, which will be about two revolutions.
3. Grasp the jointer's power coupler and rotate the cutter head so no blade is exposed in the opening. See Fig. 2
4. Cut a 2-1/2" x 4-1/2" piece of cardboard.

WARNING

Be careful not to cut yourself on the jointer blades.

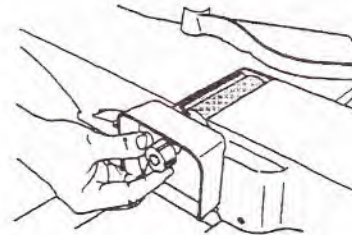


Fig. 2

5. Again grasp the jointer's power coupler while you insert the cardboard into the cutter opening, as shown in Fig. 3 Use a thin stick to help you tuck the cardboard into the opening.

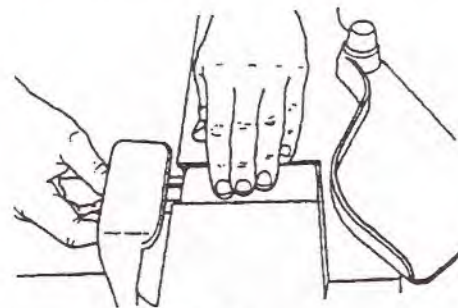


Fig. 3

6. Remove the guard's knob, as shown in Fig. 4.
7. Then remove the guard and the flat washer.

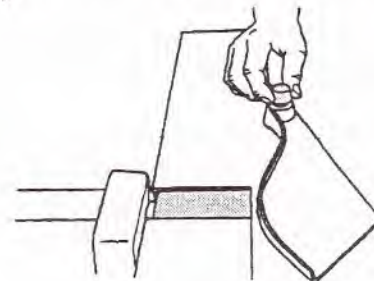


Fig. 4

8. Set all three pieces aside until later, leave post from guard in table.

DRILL A HOLE IN THE JOINTER TABLE

9. Re-install the fence on the jointer, as shown in Fig. 5.

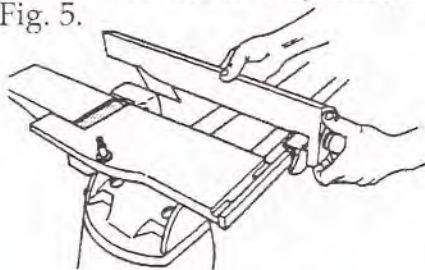


Fig. 5

10. Fold the template (18) along the serrated line.

11. Place the template in the jointer table and insert the guard stud through the template hole.

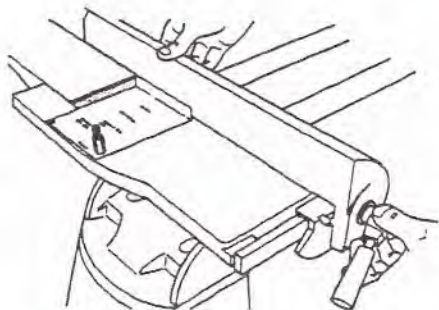


Fig. 6

12. Locate the fence so it touches the fold in the template. See Fig. 6. This will ensure that the folded template flap is square with the jointer base. Important: Make sure the fence contacts the entire width of the template. This is critical for exactly placing the indentation in Step 13.

13. Use a hammer and center punch to punch through the template where it says "Center Punch Here". This will leave an indentation in the table. See Fig. 7.

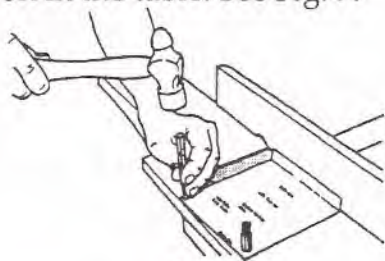


Fig. 7

14. Remove the template.

15. Use a 7/32" (or #3) twist drill bit and variable speed drill to drill a hole through the table at the punch mark, as illustrated in Fig. 8. Use a square to make sure that you drill the hole perpendicular to the surface of the table.

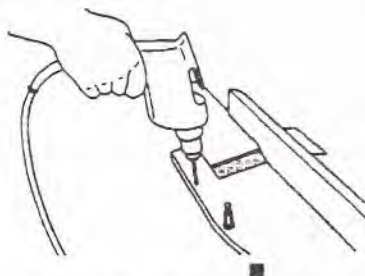


Fig. 8

16. Use a 1/4-28 Tap to cut threads in the drilled hole, as seen in Fig. 9. Follow this process: Start the tap straight in the hole. Make a full turn. Back up a quarter turn. Add two drops of any kind of oil into the hole. Repeat this process until you have tapped threads through the entire hole.

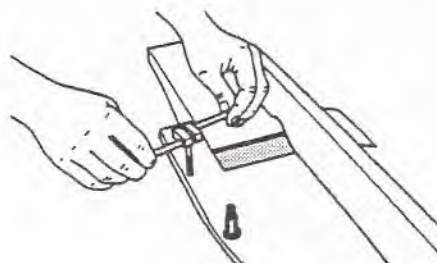


Fig. 9

17. Use a ratchet with a 1/2" socket to remove the old guard stud post, as shown in Fig. 10, and re-assemble your old jointer guard. Save it.

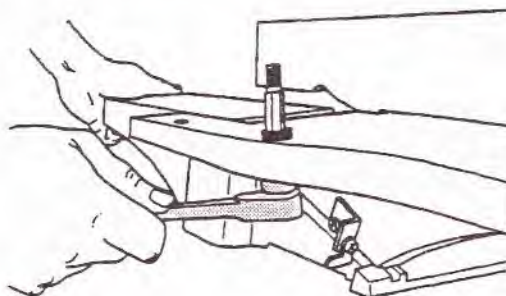


Fig. 10

INSTALL THE NEW FEATHER GUARD

18. Thread the stop stud (16) into the jointer table, as shown in Fig. 11.

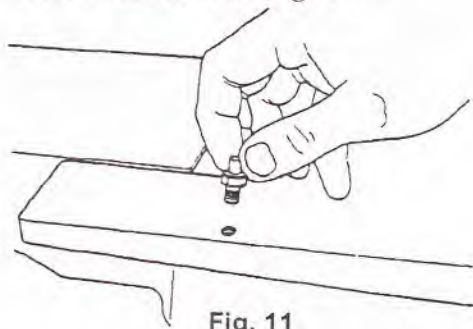


Fig. 11

19. Use a 7/16" wrench to securely tighten the stop stud's hex nut.
20. Remove the fence from the jointer.
21. Insert the feather guard's stud (11) into the table's hex hole. See Fig. 12.

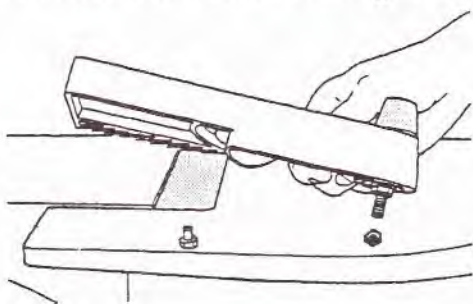


Fig. 12

NOTE

The Special Washer (17) must be installed with its bevel facing up and the flat side against the casting..

22. Attach a special washer (17) and hex nut (13) to the stud, as shown in Fig. 13. Use a 1/2" socket wrench to securely tighten the hex nut (13).

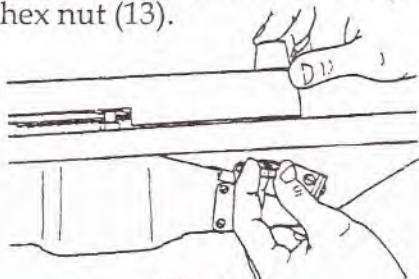


Fig. 13

23. Starting with the feather guard parallel with the jointer, as demonstrated in Fig 14., rotate the feather guard counter-clockwise 1-1/2 turns. Hold the guard by hand (or use a clamp as a stop).

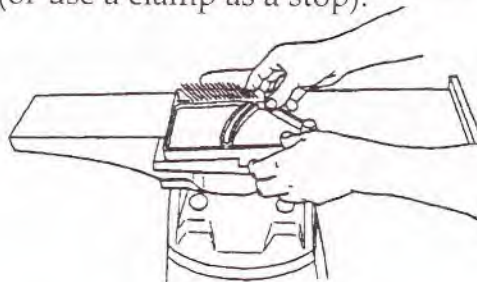


Fig. 14

24. Install the stop pin (14) in the feather guard by inserting its shaft through the slot in the guard, as in Fig. 15. The long, flat side of the stop pin (14) must face the side with the feather guard "fingers".

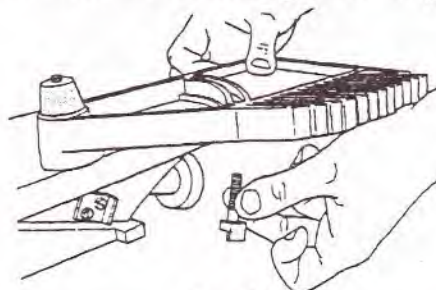


Fig. 15

25. Attach the stop pin to the feather guard (14) with a washer (12) and knob (15), as shown in Fig. 16.

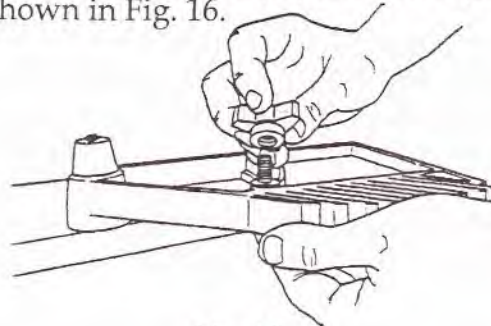


Fig. 16

NOTE

This knob will be tight when threaded on the stop pin. This tightness is to prevent the knob from loosening during operations.

ADJUST THE FEATHER GUARD'S TENSION

26. Rotate the feather guard another half turn counter-clockwise.
27. Re-install the fence while holding the feather guard in place, as illustrated in Fig. 17. Guide the feather guard back against the fence.

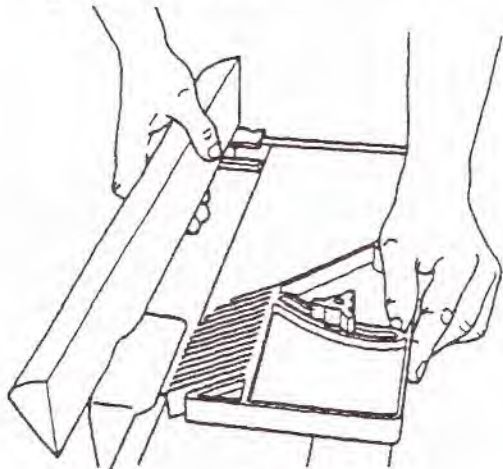


Fig. 17

28. Remove the cardboard from the jointer's blade opening.

ADJUST THE SPRING TENSION

NOTE

The spring pressure of the feather guard is pre-adjusted at the factory. **It should not need any further adjustment.** Test the spring pressure by pulling the feather guard away from the fence and letting go. It should snap back against the fence quickly. If there is any hesitation of movement, it should be readjusted.

29. If the spring action of the feather guard is not sufficient follow these steps:
 - a. While holding the knob (5) so that it will not rotate, use a 1/8" Allen wrench to loosen the setscrew (4) located in the top of the knob (5) on the feather guard, as shown in Fig. 18.

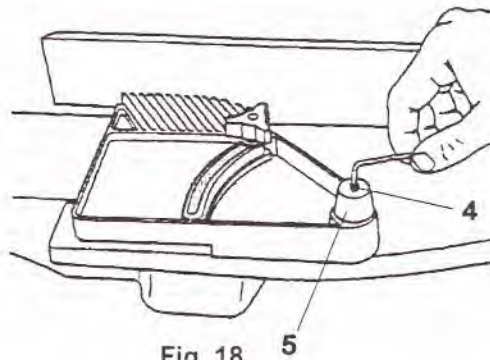


Fig. 18

- b. Turn the knob (5) slightly counter-clockwise (about 1/4 turn) to adjust the tension. See Fig. 19.

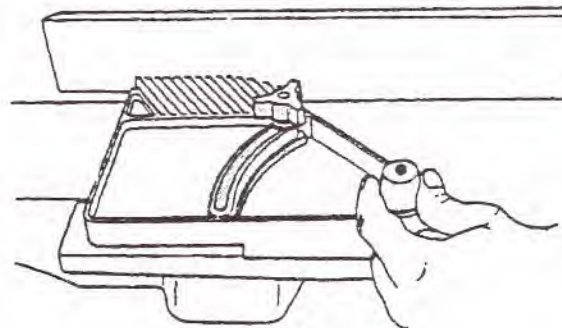


Fig. 19

- c. Hold the knob (5) in place while you retighten the setscrew (4), see Fig. 20.

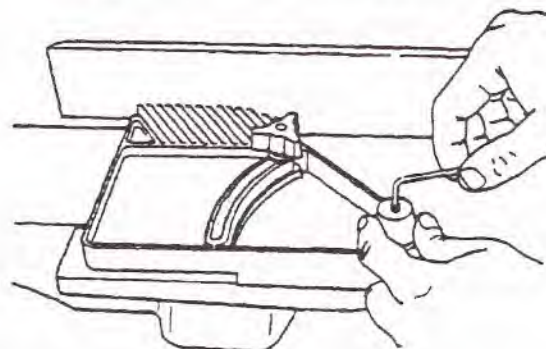


Fig. 20

NOTE

Make sure that you do not adjust the feather guard so it has too much or too little pressure. Too little pressure can cause the feather guard to be ineffective in guarding you from injury and applying lateral pressure to keep the workpiece against the jointer fence.

OPERATIONS

The sideways pressure exerted by the feather guard fingers against the workpiece helps keep the workpiece against the fence. Also, the fingers are oriented so the workpiece is prevented from kicking back horizontally. This allows the operator to concentrate on pushing the stock through - enabling safer, more convenient and more accurate jointer operations.

All jointers which have the feather guard will operate exactly the same as with the old style guard, except for the instructions below on how to adjust the feather guard to work with each workpiece. Read and perform the following instructions for joining or rabbeting, then see your jointer owner's manual for all operation procedures and safety information.

WARNING

Before performing any step below, make sure the jointer's power source (MARK V, Power Station or other source) is turned off and unplugged.

For Jointing - How to Adjust the Feather Guard to the Workpiece

1. Loosen the stop knob (15) on the stop pin (14).
2. Place the workpiece against the fence and between the fence and the feather guard. See Fig. 21.

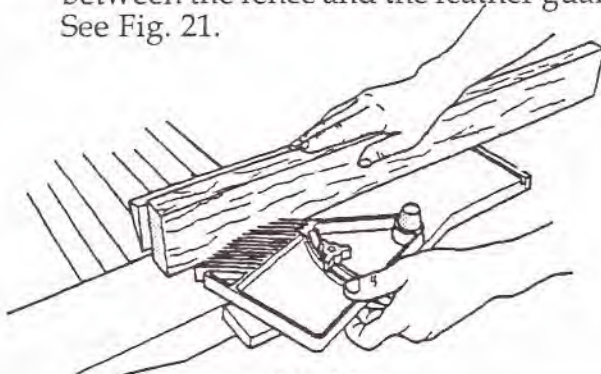


Fig. 21

3. Press the feather guard against the workpiece until you have reached mild pressure. You can tell this when the fingers slightly flex.
4. Move the stop knob (15) and stop pin (14) away from the workpiece so it touches the stop stud (16).
5. Tighten the stop knob (15), as in Fig. 22.

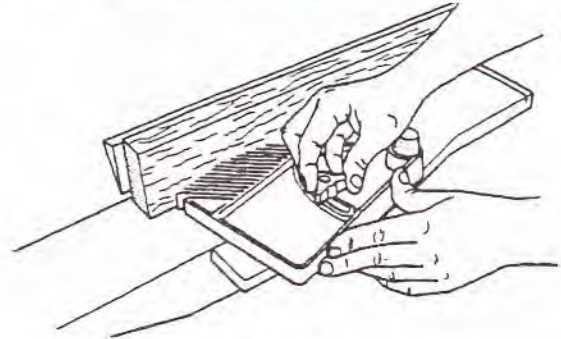


Fig. 22

6. Follow the jointing operations procedures found in the jointer owners manual. Fig. 23 shows the Jointer Feather Guard operating while a board is being joined.

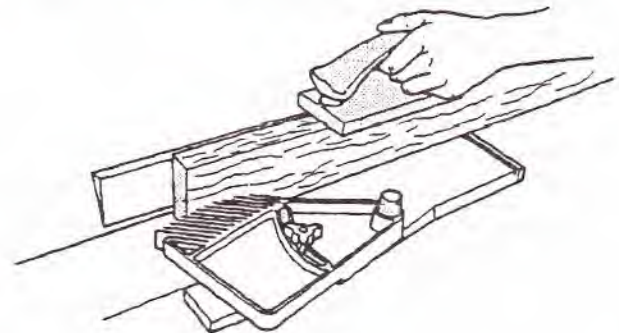


Fig. 23

For Rabbeting - How to Adjust the Feather Guard to the Workpiece

1. Loosen the feather guard's stop knob (15) with stop pin (14).
2. Adjust the fence so it is positioned to cut the desired width rabbet and lock it in position. (Consult your Jointer Owner's Manual)

3. Insert the workpiece between the fence and the feather guard, as shown in Fig. 24.

NOTES

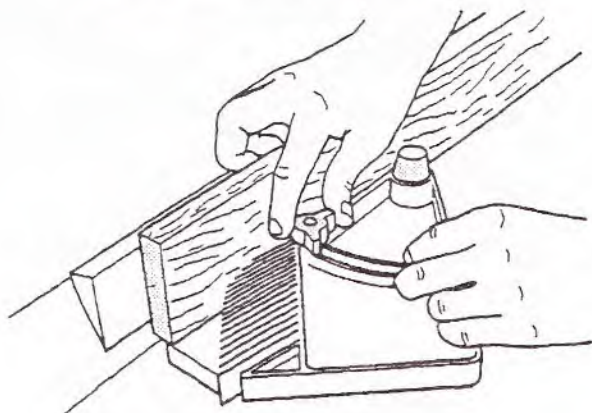


Fig. 24

4. Press the feather guard against the workpiece until you have reached mild pressure.
5. Move the stop knob (15) with stop pin (14) away from the workpiece so it touches the stop stud.
6. Tighten the stop knob (15).
7. Follow the rabbeting operations procedures found in the jointer owner's manual.

NOTE

The feather guard must always be used for any jointer operation. **DO NOT** remove the feather guard to perform any types of cuts. Any width rabbet cut can be made on 3/4" stock with the feather guard. The maximum width of a rabbet cut is 3/4". The maximum depth of cut is 3/8".

NOTE

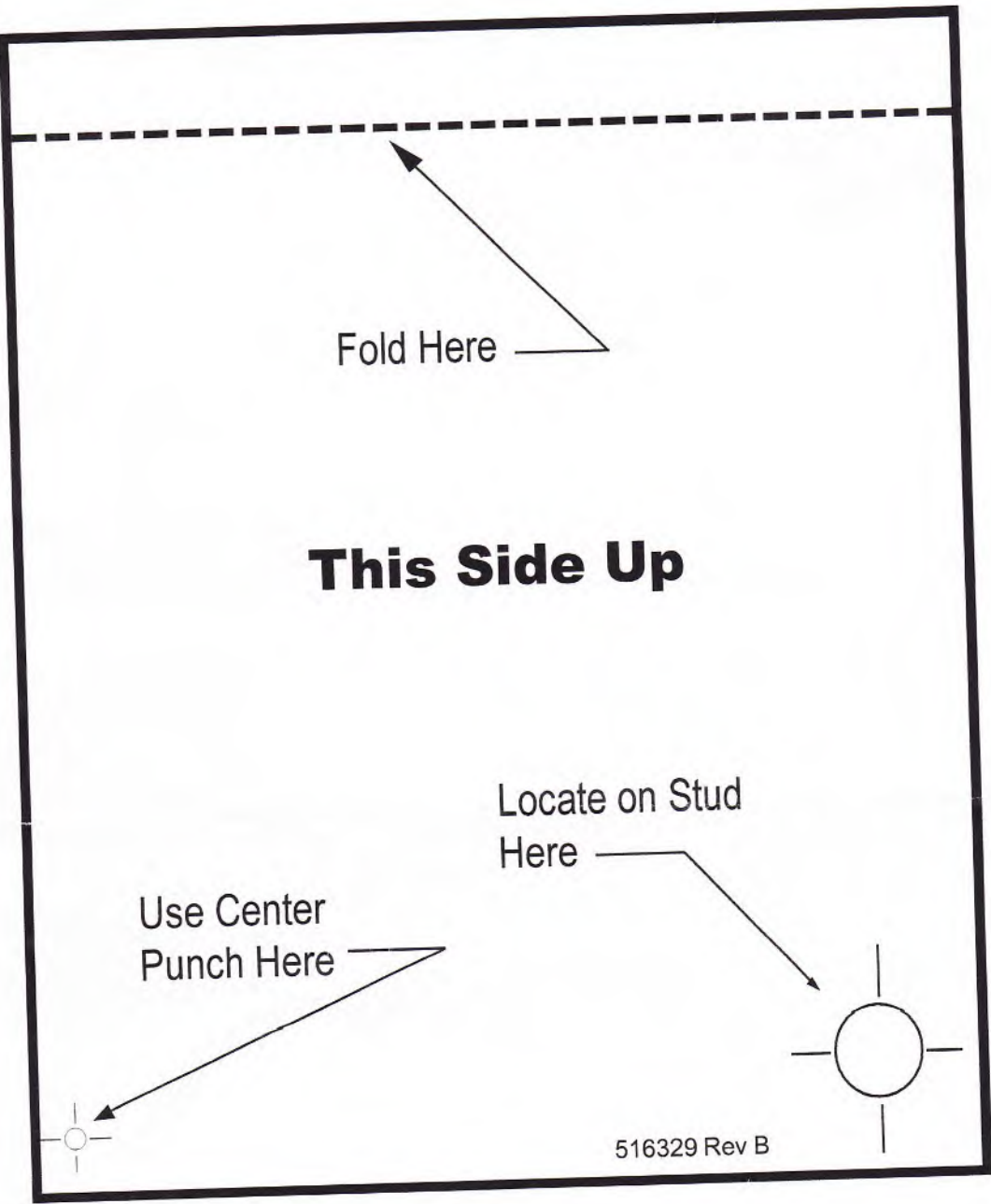
If you have any questions, please call our Customer Service Department Toll-Free 800-762-7555 or visit our website www.shopsmith.com.



Shopsmith Inc.
6530 Poe Avenue
Dayton, Ohio 45414

845286 Rev A 9/01

© 2001 Shopsmith, Inc.
All Rights Reserved
Printed in U.S.A.

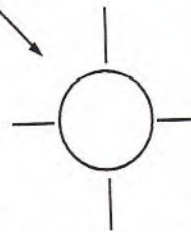


Fold Here

This Side Up

Use Center
Punch Here

Locate on Stud
Here



516329 Rev B