

RICOH

B-C4 TRAINING

OPTIONAL TRIMMER UNIT (D455)

Slide 1

 $\ \square$ This is a new option



INTRODUCTION

Slide 2

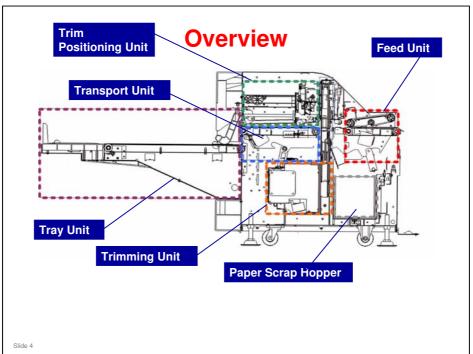


What does the Trimmer do?

- ☐ The trimmer unit receives folded and stapled booklets from the Booklet Finisher (D434), and trims their fore edges.
 - The trimmer unit can be connected only to the Booklet Finisher D434.
 - The trimmer unit handles stapled booklets only.
- □ Due to its length and configuration, the trimmer unit must be installed as the last peripheral downstream of the main machine and Booklet Finisher.

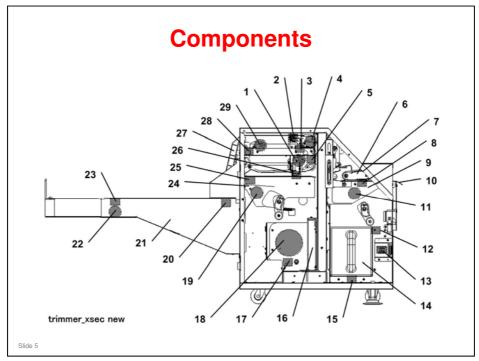
Slide 3





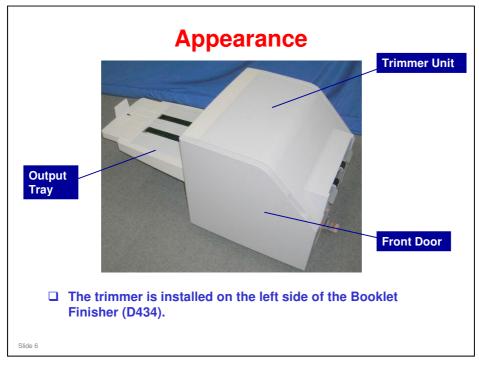
- ☐ Feed Unit: Sends the stack from the upstream unit to the transport unit.
- ☐ Trim Positioning Unit: Determines the cutting position for the paper.
- ☐ Trimming Unit: Trims the edge of the stack.
- ☐ Paper Scrap Hopper: Holds the paper trimmed by the cutter blade from the edge of the stack.
- ☐ Transport Unit: Takes the paper from the feed unit and sends it to the cut position unit.
- ☐ Tray Unit: Collects and holds the stacks after trimming.



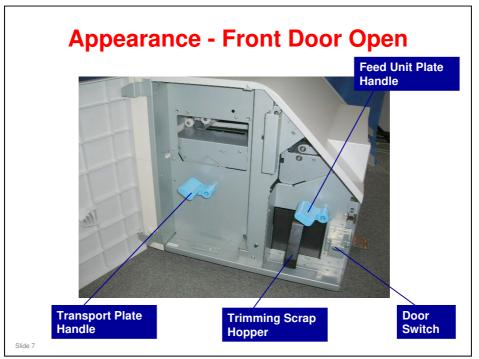


- ☐ The components will be explained in more detail during this presentation.
 - ➤ 1 Press Stopper Motor
 - 2 Press Stopper HP Sensor
 - > 3 Stopper assembly HP Sensor
 - > 4 Press Roller Motor
 - > 5 Press Roller HP Sensor
 - 6 Upper Feed Guide
 - > 7 Feed Unit
 - 8 Entrance Sensor
 - 9 Lower Feed Guide
 - > 10 Entrance Guide
 - ➤ 11 Feed Motor
 - 12 Scrap Hopper Full Sensor
 - > 13 Door Switch
 - ➤ 14 Scrap Hopper
 - 15 Scrap Hopper HP Sensor
 - > 16 Trimming Unit
 - ▶ 17 Trimming Blade HP Sensor
 - 18 Trimming Blade Motor
 - > 19 Exit Motor
 - 20 Booklet Sensor 2
 - ➤ 21 Tray Unit
 - > 22 Tray Motor
 - 23 Booklet Sensor 3
 - > 24 Cut Positioning Unit
 - > 25 Exit Sensor
 - 26 Stopper Sensor
 - 27 Booklet Sensor 1 Arm
 - > 28 Booklet Sensor 1
 - > 29 Cut Position Motor



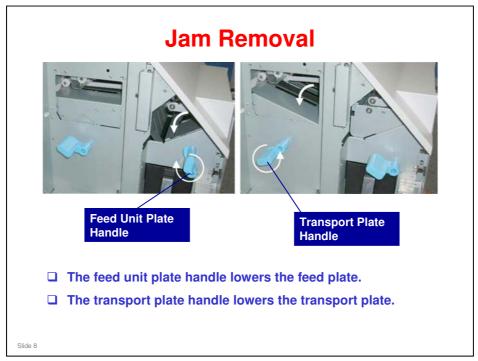






No additional notes







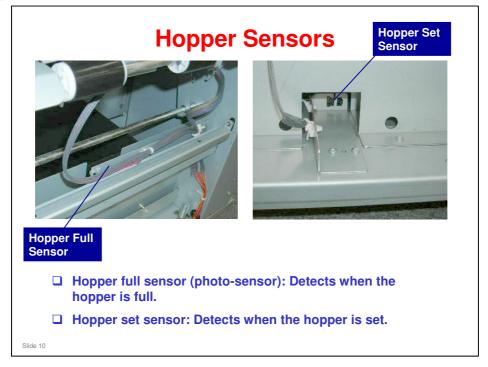
Trimming Scrap Hopper



☐ The operator removes the hopper to empty it when it becomes full of paper scraps trimmed from the booklets.

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Breaker Switch



 $\hfill \Box$ On the rear cover next to the power connection point.

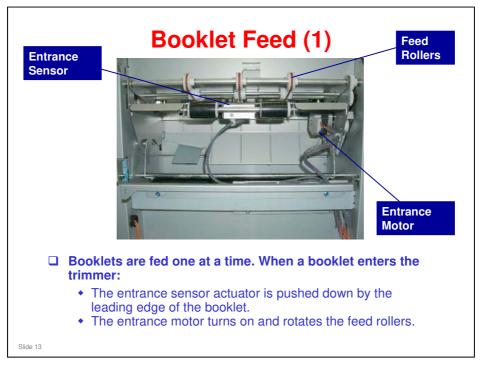
Slide 11



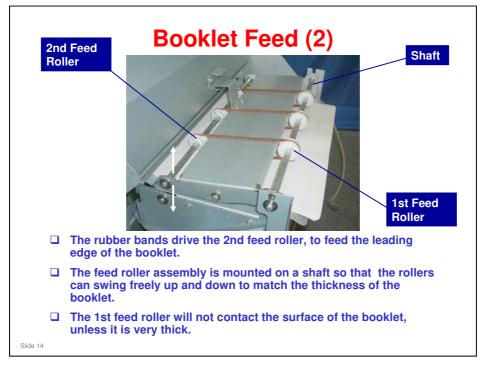
MECHANISMS

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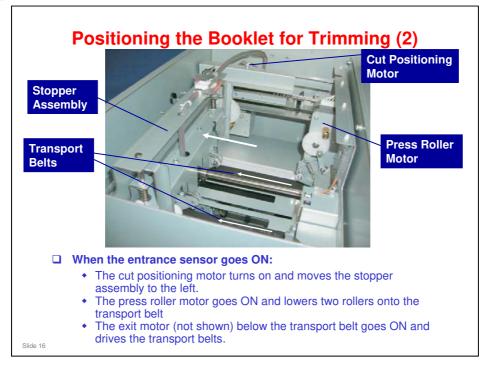


- ☐ The stopper assembly (shown at the home position) is mounted on two rails and driven by two belts.
 - The cut positioning motor drives the belts.

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☐ Cut positioning motor: See the next slide.







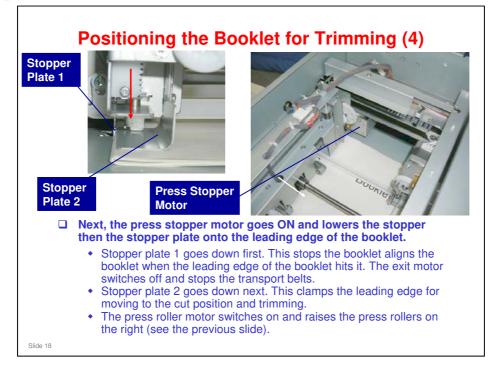
Positioning the Booklet for Trimming (3)



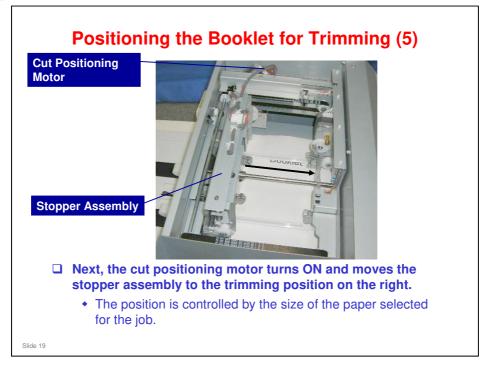
☐ The stopper sensor goes ON when the leading edge of the booklet trips the actuator of the stopper sensor on the bottom of the stopper assembly.

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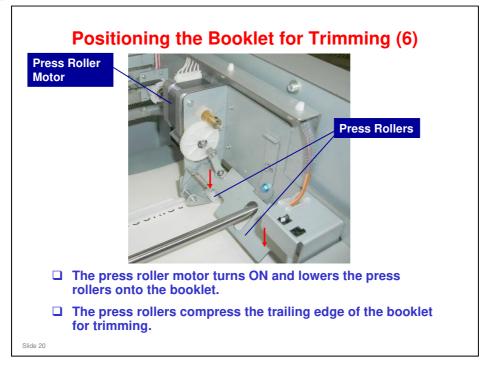




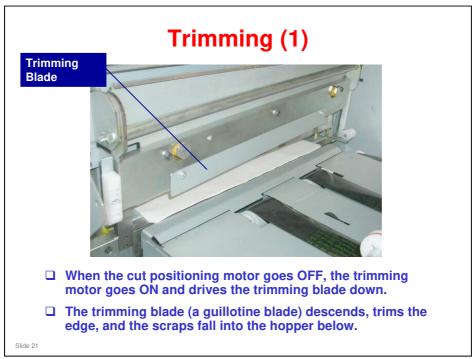




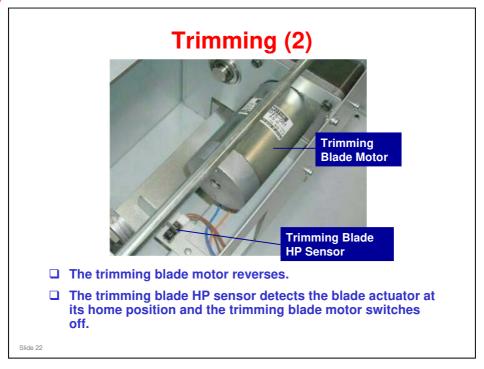




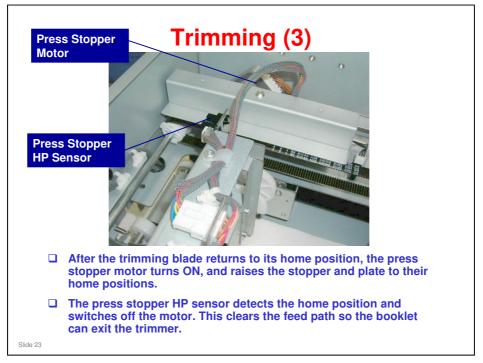




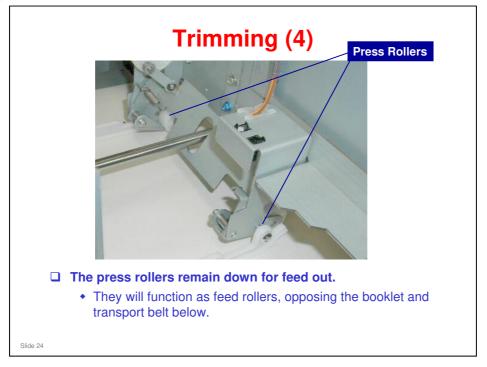




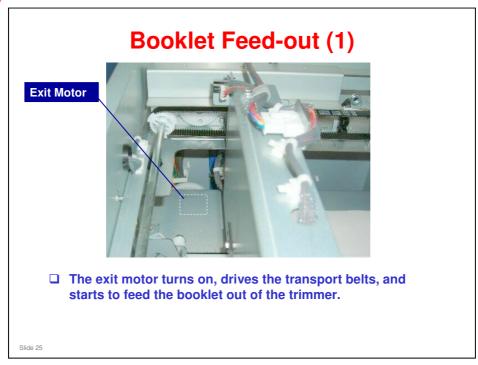






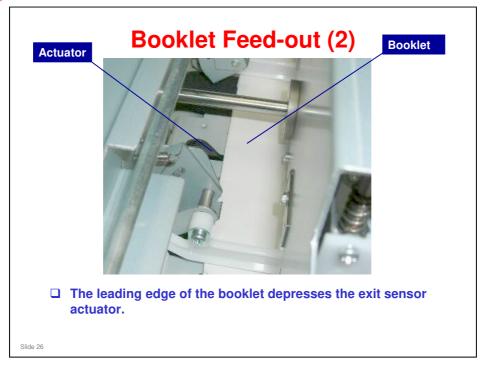




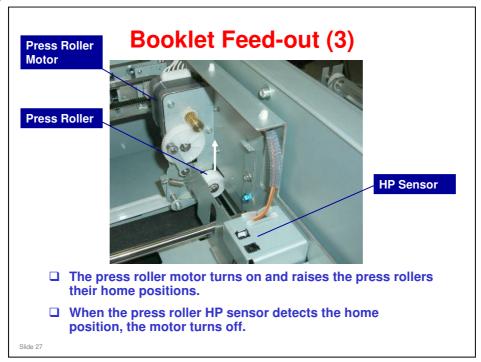


 $\hfill\Box$ The exit motor is behind the plate, in the indicated location.

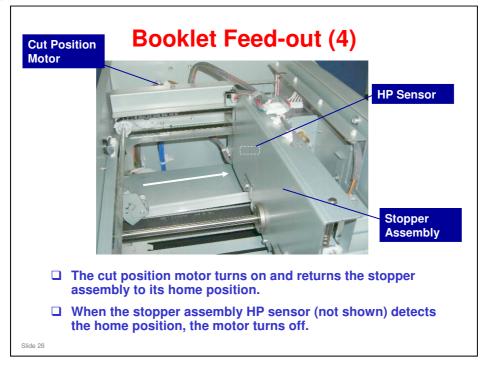














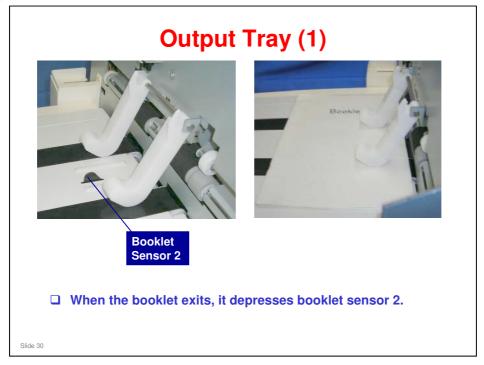
Booklet Feed-out (5)



☐ The booklet exits the trimmer.

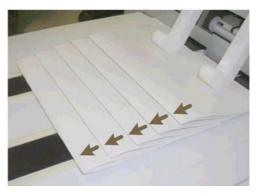
Slide 29







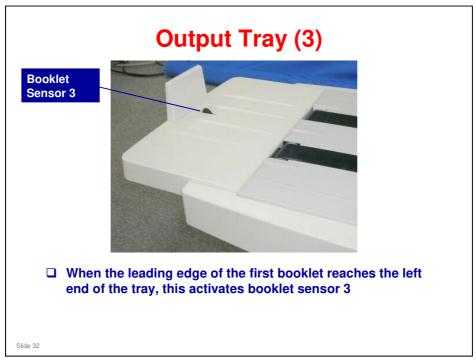
Output Tray (2)



☐ The tray motor inside the tray switches on and moves each booklet slightly to the left as each booklet exits the trimmer.

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Output Tray (4) The trimmer will continue to feed booklets until there are enough booklets at the trimmer exit to raise the actuators and activate booklet sensor 1.

☐ When all three booklet sensors are activated, the tray is full and the trimmer stops. The booklets on the tray must be

removed for operation to continue.

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REPLACEMENT AND ADJUSTMENT

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Preparation for Servicing Remove the covers in this order before you begin to work on this machine. 1. Rear cover 2. Left upper cover 3. Top cover 4. Front door 5. Left bottom cover 6. Tray unit

- ☐ The important points about the replacement procedures are explained on the next few slides.
- ☐ After you see these slides, then read the procedures in the service manual.
- ☐ Make sure that you obey all warnings and cautions in the manual when you work on the machine.





No additional notes







Removing the Trimming Blade (3)



- ☐ Use the Allen key (provided with the new blade) to remove the blade hex screws.
 - The blade is compressed by these screws and three very strong springs.
 - Insert the Allen key into the first hex screw.
 - Attach an adjustable wrench as shown.
 - Raise the wrench to relieve tension on the springs.
 - Loosen each screw a full turn to gradually relieve the tension on each screw.
 - Continue to loosen each screw in turns to remove them.

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Removing the Trimming Blade (4)



- ☐ The screws should be removed gradually.
- □ To avoid stripping the threads of the other holes or screws, never remove any screw completely before the others.

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Removing the Trimming Blade (5)



- ☐ Grip the handle and slowly lift the blade off the heads of the large hex bolts.
- ☐ Obey local laws and regulations regarding the disposal of the used trimming blade.

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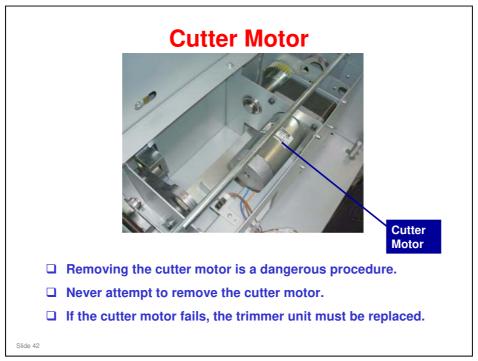
Replacing the Trimming Blade





- Grip the new blade by the handle and set it on the heads of the hex bolts.
- □ Position the screw at the first hole.
- ☐ Raise the plate with the wrench.
- Insert the first screw in the hole, then turn it until the screw is firmly attached. Do not tighten it completely.
- ☐ Start the other two screws in their holes while continuing to relieve tension on the springs with the wrench.
- ☐ After all the screws have been attached, tighten them one by one by about one full turn until they are all tightened completely.
- Attach the provided mylar to the new blade.







Setting Up for Limitless Output - 1

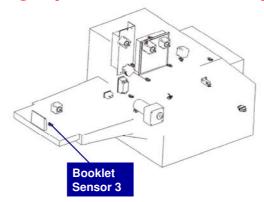


☐ First, remove the end stopper from the output tray.

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Setting Up for Limitless Output - 2



- ☐ Next, disconnect booklet sensor 3.
 - With booklet sensor 3 disabled, the trimmer will not detect tray full.
 - The trimmer will operate continuously without interruption. The booklets will fall off the end of the tray into a container placed at the end of the tray.

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