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User manual EPSON FX-890
User guide EPSON FX-890
Operating instructions EPSON FX-890
Instructions for use EPSON FX-890
Instruction manual EPSON FX-890

EPSON®
9-pin Dot Matrix Printer
FX-890/FX-2190

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Otherwise, you may damage the printer or change the top-of-form or tear-off position. □ Never press the Load/Eject or Tear Off/Bin button when you are using the pull tractor; the paper could come off the pull tractor andev. E SAFE.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson Important: The wires in the mains lead fitted to this appliance are coloured in accordance to the following code: Green and yellow — Earth Blue — Neutral Brown — Live If you have to fit a plug: As the colours of the mains lead of this appliance may not match coloured markings used to identify the terminals in a plug, please proceed as follows: The green and yellow wire must be connected to the terminal in the plug which is marked with the letter E or the Earth symbol (G). The blue wire must be connected to the terminal in the plug marked with the letter N. The brown wire must be connected to the terminal in the plug marked with the letter L.

If damage occurs to the plug, replace the cord set or consult a qualified electrician. 8 Safety Instructions Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R Chapter 2 Paper Handling Selecting a Paper Source. .

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64 2 Paper Handling 9 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson Selecting a Paper Source Your printer provides a variety of paper sources for printing on single sheets and continuous paper. Paper can be fed into the printer from the top, front, bottom, or rear. Select the paper source that best suits your current printing needs.

Printing on continuous paper You can choose from three tractor positions (front push, rear push, and pull) and three paper entry slots (front, rear, and bottom) for continuous paper printing. This section helps you determine which paper paths and tractor positions are best for your continuous paper printing needs. See "Loading continuous paper with the tractor" on page 17 for tractor installation and paper loading instructions. Using the push tractor positions If you often need to tear off sheets of continuous paper (for example, if you are printing purchase orders or sales slips), it is best to use the tractor in the front or rear push position. This allows you to use the printer's tear-off edge to easily tear off sheets of continuous paper at the perforation.

Also, when continuous paper is loaded on a push tractor, you can print on single sheets of paper from the paper guide without removing the continuous paper from the tractor. 10 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S.

Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R There are two push tractor positions: front and rear. The tractor is installed in the rear push position when the printer is shipped. See the table below for details about the push positions and the corresponding paper paths. Tractor position Description 2 Load paper from the front slot. If you print on thick paper such as multipart forms, use the front paper slot because this paper path is almost straight. This reduces the chances of paper jams. front push Load paper from the rear slot.

c rear push Caution: Do not load continuous paper with labels from the rear slot. Labels require a straight paper path; otherwise the labels may come off their backing sheets inside the printer and cause a paper jam. Note: The rear slot is also not recommended when your multipart forms have 5 or 6 parts (1 original plus 4 or 5 copies), because paper might jam.



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Using the pull tractor position If you often print on thick or heavy continuous paper, such as multipart forms or continuous paper with labels, use the tractor in the pull position. The pull tractor provides you with the best paper jam prevention, and allows you to load continuous paper from the front, rear, or bottom of the printer. However, you cannot use the tear-off feature when the tractor is in the pull position. Paper Handling 11 L R4CC530 long.bk A5 size 6/23/03

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Hashimoto, S. Yamamoto H. Kimura S. Halvorson Note: To use the tractor in the pull position, you can remove the tractor from the rear push position and reinstall it in the pull position, or you can purchase the optional pull tractor unit (C80020□ for the FX-890, C80021□ for the FX-2190) and install it in the pull position. If you use a push tractor with the optional tractor in the pull position, you can create a push/pull tractor combination.

This improves the performance of continuous paper, and is recommended for printing on continuous pre-printed forms. See "Using two tractors in a push/pull combination" on page 44 for more information. You can use the front, bottom, or rear paper slot with the pull tractor. Paper slot Description If you print on thick paper such as multipart forms or continuous paper with labels, use the front paper slot because this paper path is nearly straight. This reduces the chances of paper jams.

front The bottom paper slot has the straightest paper path, so it is the best slot to use when printing on thick paper, such as multipart forms or continuous paper with labels. bottom Note: When loading paper from the bottom slot, be sure to use a printer stand with an opening large enough for the paper to feed through it without obstruction. 12 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R Paper slot Description If the front or bottom paper slot is unavailable, you can also load ordinary continuous paper from the rear slot.

Please note that loading paper from the rear slot results in a curved paper path, which may affect loading performance, so use the front or bottom slot whenever possible. 2 2 2 2 2 2 2 2 2 2 2 2 2 rear c Caution: Do not load continuous paper with labels from the rear slot. The labels may come off the backing sheets inside the printer and cause a paper jam. Printing on single sheets As shown below, you can load ordinary single sheets (not single-sheet multipart forms) and envelopes one at a time from the rear paper entry slot of the printer, using the paper guide that comes with the printer. To load single-sheet multipart forms, you need to use the front paper entry slot. The optional front sheet guide (C81400□ for the FX-890, C81401□ for the FX-2190) and front paper guide (C81402□ for the FX-890, C81403□ for the FX-2190) are available for easy operation. Paper Handling 13 L R4CC530 long.bk A5 size 6/23/03

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Hashimoto, S. Yamamoto H. Kimura S. Halvorson You can also load a stack of single-sheet paper using the optional cut-sheet feeder. See "Loading Single Sheets" on page 49 for more information.

See "Cut-Sheet Feeder" on page 171 for information on the optional cut-sheet feeder. Setting the Paper Release Lever When you load continuous paper in the printer, you need to set the paper release lever to indicate the paper source you want to use, as described in the table below. The table below describes each paper release lever position. Paper release lever position Description Single-sheet position For loading single-sheet paper from the top or front slot. See "Loading Single Sheets" on page 49 for instructions.

14 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R Paper release lever position Description 2 2 2 2 2 2 2 2 2 2 2 2 2 Paper Handling Rear push tractor position For loading continuous paper using the tractor installed in the rear push position. Also set the lever to this position when using the rear push and pull tractors in combination. Front push tractor position For loading continuous paper using the tractor installed in the front push position.

Also set the lever to this position when using the front push and pull tractors in combination. Pull tractor position For loading continuous paper from the tractor installed on top of the printer in the pull position. When the tractor is in the pull position, you can load paper in the front, rear, or bottom slot.

Adjusting the Paper-Thickness Lever Before you start printing, you may need to change the paper-thickness setting depending on the type of paper you are using. Follow these steps: 15 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H.

Kimura S. Halvorson 1. Turn the printer off and open the printer cover. The paper-thickness lever is located on the left side of the printer. The numbers next to the lever indicate the thickness setting.

2. Use the table below to select the appropriate paper thickness. Paper type* Ordinary paper: Single sheets Continuous paper Thin paper Carbonless multipart forms with: 2 parts (original + 1 copy) 3 parts (original + 2 copies) 4 parts (original + 3 copies) 5 parts (original + 4 copies) 6 parts (original + 5 copies) 7 parts (original + 6 copies)** Continuous paper with labels Cards Envelopes Lever position 0 or 1 0 0 1 3 5 6 7 7 2 2 5 or 6 * See the paper specifications for more information. ** Available when using a bottom pull position or front pull position. 16 Paper Handling Proof Sign-off: ABE J.

Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R Note: □ When the temperature is 5°C (41°F) or lower, or 35°C (95°F) or higher, set the paper-thickness lever one position lower to improve print quality. □ When the temperature is 5°C (41°F) or lower, or 35°C (95°F) or higher, multipart forms with 7 parts cannot be used. 2 2 2 2 2 2 2 2 2 2 2 2 2 Loading Continuous Paper Follow the instructions in this section to load continuous paper in the printer. Positioning the continuous paper supply Before using continuous paper, make sure you line up your paper supply with the tractor feeder as shown below, so that the paper feeds smoothly into the printer.

Loading continuous paper with the tractor The paper loading procedure depends on where you position the tractor which feeds paper to the printer. Follow the instructions below for your tractor position. Paper Handling 17 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson This section provides instructions on "Using the tractor in the front push position" on page 18, "Using the tractor in the rear push position" on page 25, "Using the tractor in the pull position" on page 32, and "Using two tractors in a push/pull combination" on page 44.



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Using the tractor in the front push position This section provides instructions on “Installing the tractor in the front push position” on page 18, “Loading paper with the front push tractor” on page 20, and “Removing the tractor from the front push position” on page 24. Installing the tractor in the front push position Before installing the tractor in the front push position, remove it from its current position. If the tractor is in the rear push position, remove the paper guide and then press the tractor’s lock tabs while lifting it out. If the tractor is in the pull position, remove it following the instructions in “Removing the tractor from the pull position” on page 42. Note: The tractor is installed in the rear push position when the printer is shipped.

1. Make sure the printer is turned off. If necessary, install the paper guide on your printer as described in “Assembling the Printer” in the Setup Sheet. 18 Paper Handling Proof Sign-off: ABE J. Hashimoto, S.

Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R 2. If the optional front sheet guide is installed, remove it by grasping the fins on both sides and pulling the guide slightly up and away from the printer. If the optional front paper guide is installed, open the front cover and remove it. 2 2 2 2 2 3. Insert the tractor into the printer’s mounting slots and press down both ends of the tractor to make sure that it is firmly seated.

2 2 2 2 2 2 Paper Handling 19 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson See “Loading paper with the front push tractor” on page 20 for instructions on loading continuous paper with the front push tractor. Loading paper with the front push tractor When using the push tractor, it is a good idea to set the Auto tear-off function in the Default Setting mode to On. See “About Your Printer’s Default Settings” on page 116 for more information.

Follow these steps to load paper using the front push tractor: 1. Make sure the printer is turned off. 2. Open the front cover. Make sure the tractor is installed in the front push position.

20 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R 3. Set the paper release lever to the front push tractor position. Also set the paper-thickness lever (located under the printer cover) to the proper position for your paper’s thickness. See “Adjusting the Paper-Thickness Lever” on page 15 for instructions. 2 2 2 2 2 2 2 2 2 2 2 4. Release the left and right sprockets by pushing the blue sprocket lock levers backward. Paper Handling 21 L R4CC530 long.bk A5 size 6/23/03 Rev.

E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson 5. Slide the left sprocket approximately 12 mm (0.5 inch) from the far left position and pull the blue lever forward to lock it in place. Then slide the right sprocket to match the width of your paper, but do not lock it. approx. 12 mm (0.5 inch) 6. Remove the front cover by pushing it straight down, as shown below. 10 5 0 22 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.

fm R 7. Make sure your paper has a clean, straight edge. Then open both sprocket covers and fit the first four holes of the paper, with printable side up, over the tractor pins. 2 2 2 2 2 8. Close the sprocket covers. 9. Slide the right sprocket to remove any slack in the paper; then lock it in place by pushing the sprocket lock down. 10. Attach the front cover with the continuous paper positioned as shown below. 2 2 2 2 2 2 2 Paper Handling 23 L R4CC530 long.

bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson 11. Make sure the paper guide is lying flat on the printer and slide the edge guides to the middle of the paper guide. Note: For your safety, EPSON recommends operating the printer with the printer cover closed. The printer will function with the printer cover open or removed, but maximum safety and print speed are achieved when the cover is closed.

12. Turn on the printer. When the printer receives data, it automatically loads the paper and starts printing. 13. After you finish printing, follow the steps in “Removing continuous paper” on page 47 to remove your printed document.

If the first line on your page appears too high or low, you can change its position by using the Micro Adjust function as described in “Adjusting the top-of-form position” on page 64. c Caution: Never use the knob to adjust the top-of-form position; this may damage the printer or cause it to lose the top-of-form position. Removing the tractor from the front push position Follow these steps to remove the tractor from the front push position: 1. Make sure the printer is turned off. 2.

Remove any paper from the tractor as described in “Removing continuous paper” on page 47. 24 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R 3. Press the tractor’s lock tabs, tilt the tractor up, and lift it out of the printer.

2 2 2 2 2 4. Close the front cover. 2 2 2 2 2 2 2 Using the tractor in the rear push position The tractor is installed in the rear push position when the printer is shipped. If your tractor is in the rear push position, skip to “Loading paper with the rear push tractor” on page 27 for instructions on loading paper. Paper Handling 25 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H.

Kimura S. Halvorson This section provides instructions on “Installing the tractor in the rear push position” on page 26, “Loading paper with the rear push tractor” on page 27, and “Removing the tractor from the rear push position” on page 31. Note: Thick paper, such as continuous paper with labels or multipart forms with five or six parts, requires a relatively straight paper path to avoid paper jams. When printing on thick continuous paper, use the tractor in the front push position or the pull position. Installing the tractor in the rear push position Before installing the tractor in the rear push position, remove it from its current position.

If the tractor is in the front push position, remove it by pressing the tractor’s lock tabs while lifting it out. If the tractor is in the pull position, remove it as described in “Removing the tractor from the pull position” on page 42. 1. Make sure the printer is turned off. Then open the paper guide cover by pulling its back edge forward.

2. Lift the paper guide up and off the printer. 26 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.



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fm R 3.

Lower the tractor into the printer's mounting slots and press down both ends of the tractor to make sure that it is firmly seated. 2 2 2 2 2 2 2 2 2 2 See "Loading paper with the rear push tractor" on page 27 for instructions on loading continuous paper using the rear push tractor. Loading paper with the rear push tractor Follow these steps to load paper using the rear push tractor: 1. Make sure the printer is turned off and the tractor is installed in the rear push position. Also make sure the paper guide is removed. Paper Handling 27 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S.

Hashimoto, S.

Yamamoto H. Kimura S. Halvorson 2. Set the paper release lever to the rear push tractor position. 3.

Release the left and right sprockets by pulling the blue sprocket lock levers forward. 28 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S.

Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R 4. Slide the left sprocket approximately 12 mm (0.5 inch) from the far left position and push the blue lever back to lock it in place. Then slide the right sprocket to match the width of your paper, but do not lock it. 2 2 2 2 2 approx. 12 mm (0.5 inch) 2 The triangle mark on top of the printer indicates the point furthest to the left where printing can begin.

2 2 2 2 2 2 Paper Handling 29 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S.

Halvorson 5. Make sure your paper has a clean, straight edge. Then open both sprocket covers and fit the first four holes of the paper, with the printable side down, over the tractor pins.

6. Close the sprocket covers. 7. Slide the right sprocket to remove any slack in the paper; then lock it in place by pushing the blue sprocket lock down. 8. Attach the paper guide and lay it flat on the printer and slide the edge guides to the middle of the paper guide. Note: For your safety, EPSON recommends operating the printer with the printer cover closed. The printer will function with the printer cover open or removed, but maximum safety and print speed are achieved when the cover is closed. 9. Turn on the printer.

When the printer receives data, it automatically loads the paper and starts printing. 10. After you finish printing, follow the steps in "Removing continuous paper" on page 47 to remove your printed document. 30 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.

fm R If the first line on your page appears too high or low, you can change its position using the Micro Adjust function as described in "Adjusting the top-of-form position" on page 64. 2 2 2 2 2 2 2 2 2 2 c Caution: Never use the knob to adjust the top-of-form position; this may damage the printer or cause it to lose the top-of-form position. Removing the tractor from the rear push position Follow these steps to remove the tractor from the rear push position: 1. Make sure the printer is turned off. 2. Remove any paper from the tractor as described in "Removing continuous paper" on page 47. 3. Press the tractor's lock tabs, tilt the tractor up, and lift it out of the printer. Paper Handling 31 L R4CC530 long.bk A5 size 6/23/03 Rev.

E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S.

Halvorson Using the tractor in the pull position Using the tractor in the pull position is ideal for printing on thick and heavy continuous paper, such as multipart forms or continuous paper with labels. However, you cannot use the tear-off function with the pull tractor. Because thick paper requires a straight paper path to avoid paper jams, you should load paper in the front or bottom slot when using the pull tractor. To further reduce the chances of paper jams and improve the performance of continuous paper, you can use two tractors in combination. See "Using two tractors in a push/pull combination" on page 44 for more information.

To install the tractor in the pull position, you need to remove the paper tension unit and install the tractor in its place. See "Installing the tractor in the pull position" on page 32 for information on the installation procedure. This section provides instructions on "Installing the tractor in the pull position" on page 32, "Loading paper with the pull tractor" on page 35, and "Removing the tractor from the pull position" on page 42. Installing the tractor in the pull position

Before installing the tractor in the pull position, remove it from its current position. If the tractor is in the front push position, remove it by pressing the tractor's lock tabs while lifting it out. If the tractor is in the rear push position, remove the paper guide and then press the tractor's lock tabs while lifting it out. Note: The tractor is installed in the rear push position when the printer is shipped. 32 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H.

Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R 1. Make sure the printer is turned off. Then open the paper guide cover by pulling its back edge forward. 2 2 2 2 2 2. Lift the printer cover and pull it straight up and off the printer. 2 2 2 2 2 2 Paper Handling 33 L R4CC530 long.

bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H.

Kimura S. Halvorson 3. Press the tabs on each side of the paper tension unit upward and lift the unit up and off the printer. Store the paper tension unit in a safe place. Note: If you plan to load paper from the rear, you need to insert the paper into the paper path before installing the paper guide and tractor. See "Loading paper with the pull tractor" on page 35 for instructions. 4. Attach the paper guide if necessary, slide the edge guides to the middle of the paper guide, and lay it flat on the printer. 34 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size

6/23/03 Rev. E PAPER.

fm R Note: If you plan to load paper from the rear, you need to insert the paper into the paper path before installing the paper guide and tractor. 2 2 2 2 2 2 2 2 2 2 5. Lower the tractor into the printer's mounting slots and press down both ends of the tractor to make sure it is firmly seated. Loading paper with the pull tractor Follow these steps to load paper using the pull tractor: 2 35 Paper Handling L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S.

Halvorson 1. Make sure the printer is turned off, and the printer cover is removed. Also make sure the tractor is installed in the pull position and the paper guide is lying flat on the printer. 2. Set the paper release lever to the pull tractor position.

36 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.

bk A5 size 6/23/03 Rev. E PAPER.fm R 3.



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Release the sprockets by pulling the sprocket lock levers forward. 2 2 2 2 4. Slide the left sprocket approximately 12 mm (0.5 inch) from the far left position and push the lever back to lock it in place. Then slide the right sprocket to match the width of your paper, but do not lock it. 2 2 2 2 approx. 12 mm (0.

5 inch) 2 2 5. Make sure your paper has a clean, straight edge. Then open the sprocket covers. Paper Handling 37 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S.

Halvorson Note: Make sure the printer is off before you insert the paper in the paper slot. If you insert the paper while it is on, a paper jam may occur. 6. Insert the paper into the front or bottom paper slot as shown in the illustration below until it emerges between the platen and the ribbon guide. Then pull up the paper until the perforation between the first and second pages is even with the top of the printer's ribbon.

Front slot Before you load paper in the front slot, remove the front cover. Then load paper with the printable side facing up. 38 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H.

Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R Bottom slot Load paper in the bottom slot with the printable side facing up. 2 2 2 2 2 2 2 2 7. Fit four holes of the paper over the tractor pins on both sprockets. Then close the sprocket covers. 8. Slide the right sprocket to remove any slack in the paper, then lock it in place.

2 2 Paper Handling 39 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson 9. Slide the edge guides on the paper guide to the center. 10.

Reattach the front cover as shown below. 11. Turn on the printer. 12. Remove any slack in the paper by pressing the LF/FF button.

c Caution: Always remove any slack from the paper; otherwise print quality may deteriorate. 13. If necessary, follow the steps in "Adjusting the top-of-form position" on page 64 to adjust the current position of the paper. 40 Paper Handling Proof Sign-off: ABE J. Hashimoto, S.

Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R c Caution: Never use the knob to adjust the top-of-form position; this may damage the printer or cause it to lose the top-of-form position. 2 2 2 2 2 2 2 2 14. Attach the printer cover by inserting the front tabs into the slots on the printer, then lowering the cover into place. Then close the paper guide cover. Note: For your safety, EPSON recommends operating the printer with the printer cover closed.

The printer will function with the printer cover open or removed, but maximum safety and print speed are achieved when the cover is closed. 15. Send a print job to the printer. The printer starts printing from the top-of-form position. After you finish printing, open the paper guide cover, then tear off the printed document at the perforation nearest the paper exit slot. Removing paper from the pull tractor Follow these steps to remove continuous paper from the pull tractor: 2 2 Paper Handling 41 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S.

Yamamoto H. Kimura S. Halvorson 1. After you finish printing, tear off the paper supply at the perforation nearest the paper entry slot. 2.

To feed paper forward and eject it, hold down the LF/FF button. c Caution: Never press the Load/Eject or Tear Off/Bin button when you are using the pull tractor; the paper could come off the pull tractor and jam the printer. Removing the tractor from the pull position Follow these steps to remove the tractor from the pull position: 1. Remove any paper loaded on the pull tractor as described in "Removing paper from the pull tractor" on page 41. 2.

Turn off the printer is turned off. Then open the paper guide cover by pulling its back edge toward you. 3. Lift the printer cover by its back edge and then pull it straight up and off the printer. 42 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev.

E PAPER.fm R 4. Press the tractor's lock tabs, tilt the tractor toward you, and lift it off the printer. 2 2 2 2 2 2 2 2 2 2 2 2 5. Store the tractor in a safe place, or install it in the front or rear push position as described in "Using the tractor in the front push position" on page 18 or "Using the tractor in the rear push position" on page 25. 6. Reinstall the paper tension unit by lower it onto the printer's mounting pegs. Then press down on both ends of the unit until it clicks into place. Paper Handling 43 L R4CC530 long.bk A5 size 6/23/03 Rev.

E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S.

Halvorson 7. Replace the printer cover. Using two tractors in a push/pull combination Using two tractors at the same time is recommended for printing on continuous pre-printed forms, multipart forms, and labels, and for printing high quality graphics. To reduce paper jams and improve continuous paper feeding, you can install the optional additional tractor (C80020□ for the FX-890, C80021□ for the FX-2190) and then use two tractors at the same time.

Follow these steps to use two tractors at the same time: 1.

Install one tractor in the front or rear push position as described in "Installing the tractor in the front push position" on page 18 or "Installing the tractor in the rear push position" on page 26. 2. Load continuous paper using the front or rear push tractor as described in "Loading paper with the front push tractor" on page 20 or "Loading paper with the rear push tractor" on page 27. 3. Set the paper release lever to the front or rear push position, depending on the position of your push tractor. 4. Turn on the printer. Press the Load/Eject button to advance the paper to the top-of-form position. Then press the LF/FF button until the perforation between the first and second pages is even with the top of the printer's ribbon. c Caution: Never use the knob to move the paper; this may damage the printer or cause it to lose the top-of-form position.

5. Install the other tractor in the pull position as described in "Installing the tractor in the pull position" on page 32. 44 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R 6.

Fit the holes of the paper over the pins on both sprockets of the pull tractor. 2 2 2 2 2 2 2 2 2 2 c Caution: Do not pull up the paper by hand to fit it on the pull tractor; this may damage the printer. Press the LF/FF button to move the paper. 7. Set the paper release lever to the pull tractor position. Then use the Micro Adjust function (described in "Using the Micro Adjust Function" on page 62) to remove any slack in the paper between the push and pull tractors. 8. Move the paper release lever back to the position you set in step 3.



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9. When the printer receives data, it will start printing at the current position without advancing the paper.

If necessary, follow the steps in "Adjusting the top-of-form position" on page 64 to adjust the current position of the paper. 10. Attach the printer cover. Make sure the paper guide is installed and lying flat on the printer. Note: For your safety, EPSON recommends operating the printer with the printer cover closed. The printer will function with the printer cover open or removed, but maximum safety and print speed are achieved when the cover is closed. 11. Send a print job to the printer. The printer starts printing from the current position without advancing the paper. After you finish printing, tear off the printed document at the perforation nearest the paper exit slot.

Paper Handling 45 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson The table below summarizes the various methods of feeding continuous paper with two tractors and shows which paper release lever setting to use for each method. Tractor positions Paper release lever position Front push tractor Paper path Pull + front push Pull + rear push Rear push tractor Front push + rear push Front push tractor Rear push tractor 46 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.

fm R Using the Tear-off Function If the push tractor is installed, you can use the tear-off function to advance your continuous paper to the printer's tear-off edge when you finish printing. You can then easily tear off the printed document. When you resume printing, the printer automatically feeds the paper back to the top-of-form position so that you can save the paper normally lost between documents. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 Removing continuous paper You can remove continuous paper using the tear-off function in two ways: manually by pressing the printer's Tear Off/Bin button or automatically by turning on auto tear-off mode. The Tear Off/Bin light flashes when the paper is in the tear-off position.

If the perforation between pages is not aligned with the tear-off edge, you can adjust the position of the perforation using the Micro Adjust function. See "Adjusting the tear-off position" on page 62 for more information. c Caution: Never use the tear-off function with the pull tractor; the paper may come off the pull tractor and jam the printer. After you finish printing, tear off the printed document at the perforation nearest the paper exit slot. Never use the tear-off function to feed continuous paper with labels backward; they may come off their backing sheet and jam the printer. Using the Tear Off/Bin button Follow these steps to remove continuous paper using the Tear Off/Bin button: 1. After the printer finishes printing your document, check that the Tear Off/Bin light is not flashing. Paper Handling 47 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.

fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson Note: If the Tear Off/Bin light is flashing, the paper is in the tear-off position. If you press the Tear Off/Bin button again, the printer feeds your paper to the next top-of-form position. 2. Press the Tear Off/Bin button. The printer advances the paper to the tear-off edge. c Caution: Never use the knob to adjust the tear-off position; this may damage the printer or cause it to lose the top-of-form position.

Note: If your paper's perforation is not properly aligned with the tear-off edge, you can adjust the tear-off position using the Micro Adjust function as described in "Adjusting the tear-off position" on page 62. 3. Tear off the printed document using the tear-off edge of the printer cover. 4. To feed the continuous paper backward out of the printer and into the standby position, press the Load/Eject button.

To remove the remaining paper from the printer, press the Load/Eject button to feed the paper backward to the standby position. Then open the sprocket covers of the tractor and remove the paper. c Caution: Always tear off your printed document before you press the Load/Eject button. Reverse feeding several pages at a time may cause a paper jam. 48 Paper Handling Proof Sign-off: ABE J.

Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R Advancing paper to the tear-off position automatically To automatically advance your printed documents to the tear-off position, turn on the auto tear-off mode and select the appropriate page length for continuous paper in the Default Setting mode. See "Changing default settings" on page 122 for instructions on how to change the default settings. When auto tear-off is on, the printer automatically advances the paper to the tear-off position whenever it receives a full page of data or a form feed command followed by no more data. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 Loading Single Sheets As shown below, you can load ordinary single sheets and envelopes one at a time from the top of the printer, using the paper guide.

You can also load single-sheet paper using an optional cut-sheet feeder, front sheet guide, or front paper guide. See "Cut-Sheet Feeder" on page 171 or "Front Sheet Guide and Front Paper Guide" on page 188 for more information. 2 2 Paper Handling 49 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson Available paper types The table below shows the types of paper you can load and the paper slots you can use with each paper type.

See "Adjusting the Paper-Thickness Lever" on page 15 for instructions on how to adjust the paper-thickness lever. Paper type Ordinary paper Multipart forms (carbonless) 2 parts (original and one copy) 3 parts (original and two copies) 4 parts (original and three copies) 5 parts (original and four copies) 6 parts (original and five copies) Envelopes Available paper slot(s) front and rear front rear Note: When the temperature is 5°C (41°F) or lower, or 35°C (95°F) or higher, set the paper-thickness lever one position lower to improve print quality. When the temperature is 5°C (41°F) or lower, or 35°C (95°F) or higher, multipart forms with 7 parts cannot be used. Do not load paper that is curled or has been folded. Using the paper guide Using the paper guide that comes with your printer, you can load one single sheet or envelope at a time from the top of the printer.

Your single-sheet paper can be up to 257 mm (10.1 inches) wide on the FX-890 and 420 mm (16.5 inches) wide on the FX-2190. (See "Printer Specifications" on page 207 for detailed paper specifications.) 50 Paper Handling Proof Sign-off: ABE J.

Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R c Caution: Do not load multipart forms, carbon paper, or labels in the paper guide.



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2 2 2 2 2 2 2 2 Loading paper in the paper guide Follow these steps to load paper in the paper guide: 1. Make sure the paper guide is in the upright position. Then set the paper-thickness lever (located under the printer cover) to 0 if you are using ordinary single-sheet paper.

(If you are using envelopes, see “Envelopes” on page 57 for instructions on setting the paper-thickness lever.) Also move the paper release lever to the single-sheet position. 2. Turn on the printer, if necessary. 2 2 2 2 2 Paper Handling 51 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H.

Kimura S. Halvorson 3. Slide the left edge guide until it locks in place next to the triangle mark on the paper guide. Then, adjust the right edge guide to match the width of your paper. 52 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev.

E PAPER.fm R 4. Insert a sheet of paper with the printable side down between the edge guides until it meets resistance. The printer feeds the paper automatically and is ready to print. 2 2 2 2 2 2 Note: For your safety, EPSON recommends operating the printer with the printer cover closed. The printer will function with the printer cover open or removed, but maximum safety and print speed are achieved when the cover is closed. If the first printed line on your page appears too high or low, you can use the Micro Adjust function to adjust the top-of-form position. See “Adjusting the top-of-form position” on page 64 for more information. 2 2 2 2 2 2 Paper Handling 53 L R4CC530 long.bk A5 size 6/23/03 Rev.

E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson Loading Special Paper Multipart forms You can use carbonless multipart forms of up to six parts (five copies on top of the original). Make sure you set the paper-thickness lever to the proper position based on the number of layers in your form. See “Adjusting the Paper-Thickness Lever” on page 15 for instructions. Continuous multipart forms Except for setting the paper-thickness lever, you load continuous multipart forms the same way as ordinary continuous paper. See “Loading Continuous Paper” on page 17 for detailed instructions.

Note: Be sure your multipart forms do not exceed 0.46 mm (0.018 inch) in thickness. Do not load paper that is curled or has been folded. Thick paper, such as multipart forms with five or six parts, requires a straight paper path to avoid paper jams.

Load thick paper in the front or bottom slots. Single-sheet multipart forms When loading single-sheet multipart forms, you need to use the front paper entry slot with the optional front paper guide or front sheet guide installed on your printer, because thick paper, such as multipart forms with five or six parts, requires a straight paper path to avoid paper jams. To load single-sheet multipart forms, follow the instructions in “Loading paper in the front sheet guide or front paper guide” on page 191. 54 Paper Handling Proof Sign-off: ABE J. Hashimoto, S.

Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R Note: Be sure your multipart forms do not exceed 0.46 mm (0.018 inch) in thickness. Do not load paper that is curled or has been folded. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 Labels When printing on labels, use only the type of labels that are mounted on continuous backing sheets with sprocket holes for use with a tractor feeder.

Do not try to print on single sheets with labels because the printer may not feed labels on a shiny backing sheet properly. Thick paper, such as continuous paper with labels, requires a straight or almost straight paper path. Load labels only in the front (push tractor or pull tractor) or bottom (pull tractor) paper slot; however, for best results, use the tractor in the pull position, and load paper in the front or bottom paper slot. The loading procedure for continuous paper with labels is the same as that for ordinary continuous paper, except that you must set the paper-thickness lever to 2 before printing. See “Loading paper with the pull tractor” on page 35 for more information. Paper Handling 55 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S.

Yamamoto H. Kimura S. Halvorson c Caution: It is best to load continuous paper with labels on the pull tractor. Loading labels on the rear or the front push tractor is not recommended. Never feed labels backward using the Load/Eject or Tear Off/Bin button.

When fed backward, labels can easily peel off the backing sheet and cause a paper jam. Because labels are sensitive to temperature and humidity, use them only under normal operating conditions described below: Temperature Humidity 15 to 25°C (59 to 77°F) 30 to 60% RH Do not leave labels loaded in the printer between jobs; they may curl around the platen and jam when you resume printing. Do not load continuous paper with labels from the rear paper slot. Because the paper path from the rear slot is curved, labels may come off their backing sheets inside the printer and cause a paper jam. Do not load paper that is curled or has been folded.

Removing continuous paper with labels To avoid peeling labels off the backing sheet and jamming the printer, follow these steps to remove continuous paper with labels from the printer: 56 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R 1. Tear off the fresh supply of continuous labels at the perforation nearest the paper entry slot. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 perforation nearest the paper entry slot 2.

Hold down the LF/FF button to eject the remaining labels from the printer. c Caution: Never feed labels backward using the Load/Eject or Tear Off/Bin button. When fed backward, labels can easily come off the backing sheet and cause a paper jam. Envelopes You can feed envelopes one at a time using the paper guide, or you can load multiple envelopes using the optional high-capacity cut-sheet feeder (bin 1 of the double-bin cut-sheet feeder). Before loading envelopes, set the paper-thickness lever to a position 5 (for thin envelopes) or 6 (for thick envelopes). Envelopes can be loaded only in the rear paper slot. Paper Handling 57 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J.

Hashimoto, S. Yamamoto H. Kimura S. Halvorson To load single envelopes, follow the instructions in “Loading paper in the paper guide” on page 51. To load multiple envelopes, see “Loading paper in the high-capacity cut-sheet feeder” on page 180.

Load envelopes with the printable side down and push them completely into the feed slot. Note: Be sure to place the envelope printable side down and insert the top edge of the envelope into the printer first. The print head must not print past the left or right edge of the envelope or other thick paper.



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Make sure your application program prints entirely within the printable area of your envelope. See "Printable area" on page 219 for more information on the printable area of envelopes.

□ If you are using No. 6 envelopes, make sure the left edge guide is aligned with the arrow on the paper guide. 58 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R Cards You can feed cards one at a time using the paper guide, or you can load multiple envelopes using the optional high-capacity cut-sheet feeder (bin 1 of the double-bin cut-sheet feeder).

Before loading cards, set the paper-thickness lever to position 2 and set the paper release lever to the single-sheet position. The cards can be loaded only in the front or rear paper slot. To load single card, follow the instructions in "Loading paper in the paper guide" on page 51. To load multiple cards, see "Loading paper in the high-capacity cut-sheet feeder" on page 180. 2 2 2 2 2 2 2 2 Note: □ When you are loading postcards long edge first, always load them in the top slot. □ Before printing, turn on the card mode by pressing the Tear Off/Bin button several times until the left Tear Off/Bin light is on. 2 2 2 Paper Handling 59 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J.

Hashimoto, S. Yamamoto H. Kimura S. Halvorson □ Use postcards under the following temperature and humidity conditions: Temperature Humidity 15 to 25°C (59 to 77°F) 30 to 60% RH □ When loading A6 size cards, always load them long edge first. Switching Between Printing on Continuous Paper and Single Sheets You can easily switch back and forth between printing on continuous paper with a push tractor and printing on single sheets without having to remove or reload the continuous paper.

Switching to printing on single sheets Follow the steps below to switch from printing on continuous paper from a push tractor to printing on single sheets. Note: □ If continuous labels are loaded in the printer, remove them before switching to single-sheet printing. See "Removing continuous paper with labels" on page 56 for more information. □ If the tractor is in the pull position, remove any continuous paper from it before switching to single-sheet printing. See "Removing paper from the pull tractor" on page 41 for more information.

1. If any printed pages remain in the printer, press the Tear Off/Bin button to advance the paper to the tear-off position. Then tear off the printed pages. 60 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.

fm R c Caution: Make sure you tear off your printed document before you press the Load/Eject button in the next step. Reverse feeding several pages at a time may cause a paper jam. 2 2 2 2 2 2 2 2 2 2. Press the Load/Eject button to feed the continuous paper backward to the standby position. The paper is still attached to the push tractor but is no longer in the paper path. 3. Move the paper guide to the upright position. 4. Set the paper release lever to the single-sheet position. 5.

Load single sheets as described in "Loading Single Sheets" on page 49. Switching to printing on continuous paper Follow these steps to switch from printing on single sheets to printing on continuous paper with a push tractor: Paper Handling 61 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J.

Hashimoto, S. Yamamoto H. Kimura S. Halvorson Note: To switch from printing with the optional front sheet guide to printing with the front push tractor, you need to remove the front sheet guide. 1.

If a single sheet remains in the printer, press the Load/Eject button to eject it. c Caution: Never use the knob to eject paper; this may damage the printer or cause it to lose the top-of-form position. 2. Make sure that the tractor is installed in the front or rear push position and that continuous paper is loaded on it as described in "Loading continuous paper with the tractor" on page 17. 3. Set the paper release lever to the front or rear push position, depending on the tractor position you are using. Your printer loads the continuous paper automatically when you begin printing. Using the Micro Adjust Function The Micro Adjust function allows you to move the paper forward or backward in 0.118 mm (1/216-inch) increments so that you can make precise adjustments to the top-of-form and tear-off positions. Adjusting the tear-off position If your paper's perforation is not aligned with the tear-off edge, you can use the Micro Adjust function to move the perforation to the tear-off position.

62 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm R Follow these steps to adjust the tear-off position: c Caution: Never use the knob to adjust the tear-off position; this may damage the printer or cause it to lose the tear-off position. 2 2 2 2 2 2 2 2 2 2 Note: Your tear-off position setting remains in effect until you change it, even if you turn off the printer. 1.

Make sure the Tear Off/Bin light is flashing (the paper is at the current tear-off position). You may need to press the Tear Off/Bin button to advance the paper to the tear-off position. 2. Hold down the Pause button for about three seconds. The Pause light begins flashing and the printer enters the Micro Adjust mode. Paper Handling 63 L R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.fm Proof Sign-off: ABE J. Hashimoto, S.

Yamamoto H. Kimura S. Halvorson 3. Open the paper guide cover, then press the LF/FF button to feed paper backward, or press the Load/Eject button to feed paper forward, until the paper perforation is aligned with the tear-off edge of the paper tension unit. tear-off edge of the paper tension unit paper perforation Note: The printer has a minimum and a maximum tear-off position. If you try to adjust the tear-off position beyond these limits, the printer beeps and stops moving the paper. 4. Tear off the printed pages. 5. Press the Pause button to turn off Micro Adjust mode.

When you resume printing, the printer automatically feeds the paper back to the top-of-form position and begins printing. Adjusting the top-of-form position The top-of-form position is the position on the page where the printer starts printing. If your printing appears too high or low on the page, you can use the Micro Adjust function to adjust the top-of-form position. 64 Paper Handling Proof Sign-off: ABE J. Hashimoto, S. Yamamoto H. Kimura S. Halvorson R4CC530 long.bk A5 size 6/23/03 Rev. E PAPER.

fm R Follow these steps to adjust the top-of-form position: c Caution: Never use the knob to adjust the top-of-form position; this may damage the printer or cause it to lose the top-of-form position. 2 2 2 2 2 2 2 2 2 2 Note: □ Your top-of-form position setting remains in effect until you change it, even if you turn off the printer.



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