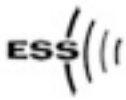


The ESS, Inc.
Fast Track 2+2®
Printer Replacement Manual



A Step-by-Step Illustrated Guide

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Fast Track 2+2® Printer Replacement Procedure

ESS, Inc. -- 615-340-9033

This document will demonstrate how to replace the thermal printer in your Fast Track timer. It is mandatory that you disconnect the Power to the Fast Track timer before swapping out the printer.

Tools Needed:

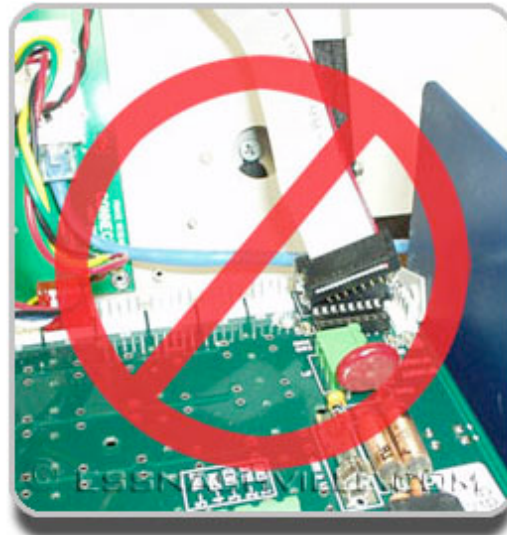
Medium Philips screwdriver

Scissors

Note: In this procedure you will be opening the Fast Track timer.

Be **very careful** to support the front cover as it is lowered. **Do not** let it drop down all the way or the grey ribbon cable that connects the main circuit board to the Ethernet board could become disconnected.

[Not all models will have the grey ribbon cable.]

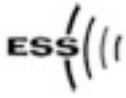


If your timer has 2 or more thumbscrews on each side, as seen in this photo, remove them all EXCEPT for the bottom one on each side, closest to you (farthest from the wall).

The thumbscrews are loosened by turning them Counter-Clockwise (to the LEFT).

Gently pull on the top of the front cover, it should open similar to the door of an oven.





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If your timer has only 2 thumbscrews on each side as shown in this photo, remove or loosen the top one. Leave the bottom one, closest to you, attached but loosened slightly.

The thumbscrews are loosened by turning them Counter-Clockwise (to the LEFT).

Gently pull on the top of the front cover, it should open similar to the door of an oven.

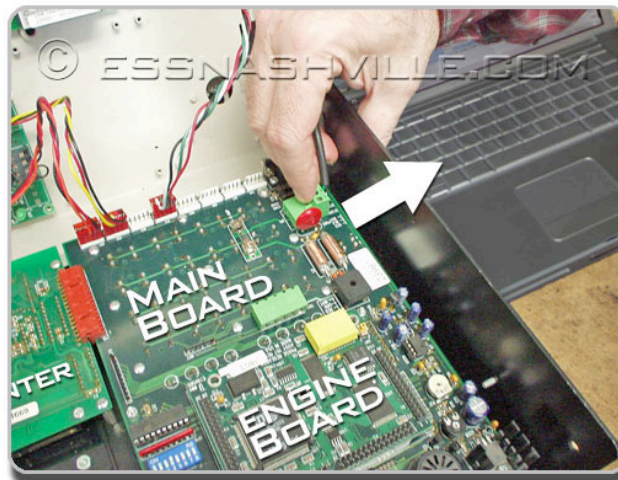


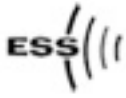
Disconnecting Power from the Timer

You MUST disconnect Power to the timer before proceeding.

Locate the Green 3-pin Power connector at the Top Right of the Main Board (from where you're standing).

Slide this connector out of the Main Board header by applying firm pressure in the direction of the arrow in the photo.





Removing the OLD Printer

First we must remove the paper from the old printer.

Cut the paper with a pair of scissors.



Close the timer and gently pull on the top of the paper to remove it from the old printer.

When removing the paper from a printer you must always pull it out in the direction it normally travels. Pulling it out backwards will damage the drive mechanism.



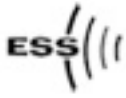
Open the timer again.

You disconnected the **Power**, right?

Locate the Printer board at the Top Left of the timer (from where you're standing).

Using the medium Philips screwdriver remove the four (4) screws at the corners of the Printer circuit board.





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The **Power** has been disconnected, right?

Grasp the Printer circuit board and gently but firmly pull out, away from the Main Board of the timer.



While pulling the Printer board away from the Main board, lift the back side to clear the components on the bottom.

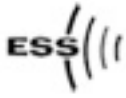
Gently rocking the board from side to side can help with the removal.



The old printer, ready to be packaged and shipped back to ESS.

Locate the new printer and prepare to install it.





Installing the NEW Printer

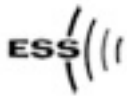
Carefully align the pins on the **new** Printer board connector with the holes on the Main board connector.

Press the Printer board into place and ensure that the screw holes line up with the threaded posts underneath.



Using the medium Philips screwdriver reinstall the four (4) screws at the corners of the Printer circuit board.





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Trim the printer paper to a point by cutting off both corners with a pair of sharp scissors.



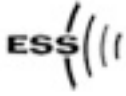
Your paper should look like this.



This is a close-up view of the slot at the top of the Printer.

In the next step you will feed the paper into this slot.





Inserting the Printer Paper

Feed the paper into the top slot of the Printer and continue pushing until the tip appears at the bottom.



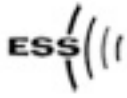
When you see the tip of the paper at the bottom of the printer, gently pull it until 4 to 5 inches is hanging out.

This you will feed **through** the printer door, to the outside of the timer.



Start the tip of the paper into the slot on the inside of the printer door.





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Slowly close the printer door and guide the paper through to the outside.

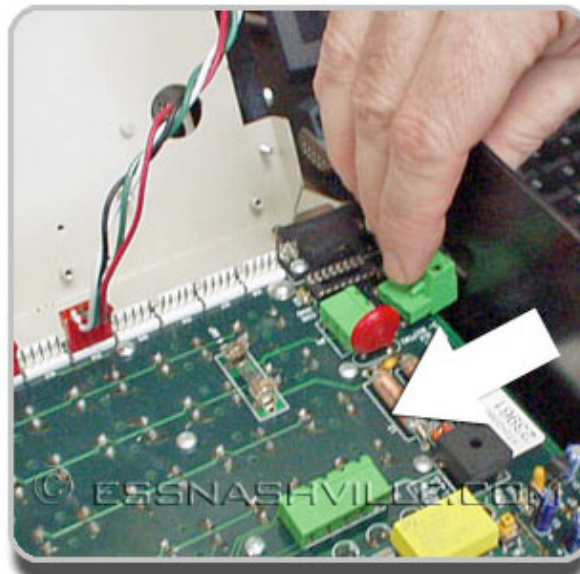
Turn the printer door latch to fasten it.

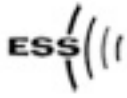


Reconnect Power to the timer by aligning the Green 3-pin Power connector with the 3-pin header on the Main board and pushing firmly until it snaps into place.

When connected correctly it won't easily come loose. Tug on it to test it.

Close the timer back up and tighten the thumbscrews.





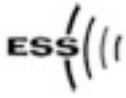
Rebooting the Timer

After the timer boots up the printer should print a few lines that will be **similar** to this:

```
PHASE RESEARCH  
Fast Track 2+2/386  
Boot Version 015  
Printer Test OK  
Modem Test NA
```



This section intentionally left blank.

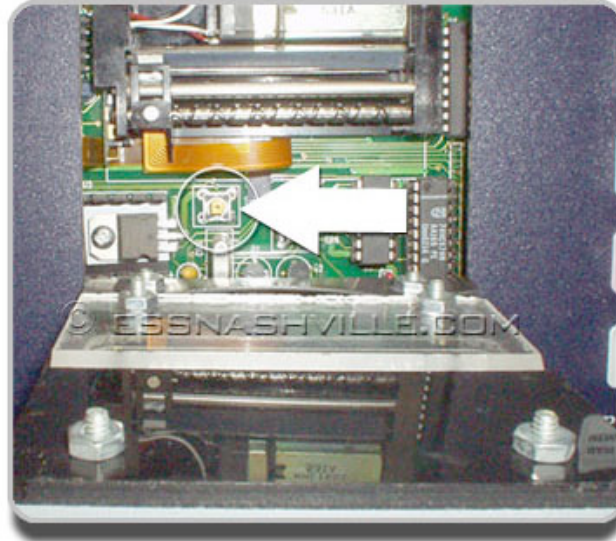


Troubleshooting

If the printer fails to print you may need to press the printer Reset button.

Open the printer door and locate the button as seen in this photo.

Press once and release, the printer should now reset itself and print out a string of characters.



End of Procedure.

Final Notes

Package the old printer and return it to ESS using the supplied UPS Call Tag. If you don't have one, call us!

Call Us with any questions.

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