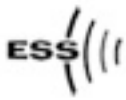


The ESS, Inc.
Fast Track 2+2®
Engine Board Replacement Manual



A Step-by-Step Illustrated Guide

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This document will demonstrate how to replace the Engine Board in your **2000 Series** (*has front panel LCD display*) or **3000 Series** (*NO front panel display*) Fast Track timer.

Tools Needed:

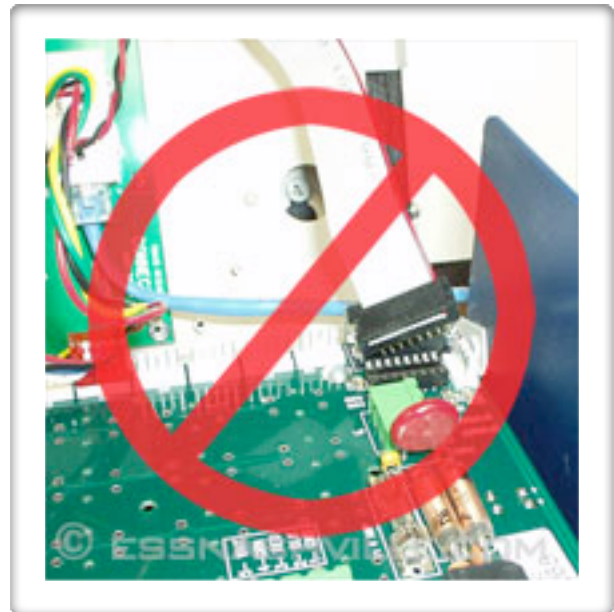
None

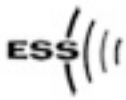
CAUTION

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 Board to the Ethernet Board could become disconnected.*

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





Opening the Timer

Up to Four Thumbscrews per Side

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.



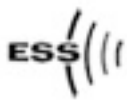
Two Thumbscrews per Side

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.





Locating the Engine Board



In this photo we see a few of the circuit boards that make up the Fast Track timer.



In this overlay we see that the Engine Board is towards the bottom (closest to you) and that it's riding piggy-back atop the Main Board.

[Not all models will have the Printer Board.]

Removing the Old Engine Board



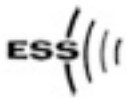
With both hands firmly grasp the edges of the Engine Board and pull it Up with a gentle rocking motion (towards and away from you). The pins should slowly slide up and free of their headers and the Engine Board should lift off of the Main Board.

Installing the New Engine Board



Set the new Engine Board down on top of the black plastic headers and look at all of the pins on the bottom edge and the left and right edges.

Re-position the Engine Board, if needed, to align the pins with the holes in the headers. **This is the most important step, a misstep here can bend or break a pin.**



When you're satisfied that **all pins** are lined up correctly, gently but firmly press down on all four corners of the Engine Board until the pins are fully seated into the header.

Close the timer and re-apply Power.

End of Procedure.

Final Notes

Call Us with any questions.

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