

### Introduction

This document describes how to remove the master controller (CPU) board from your Jupiter 6 (JP-6) for shipment to Synthcom Systems, Inc. for the installation of the Europa upgrade. The removal procedure does not require any knowledge of electronics, but it does require the ability to follow instructions.

**NOTE: Synthcom Systems, Inc. *cannot and will not be held liable* for damage to the JP-6's controller board, loss of patches, or any other part of the JP-6. This includes information in this document that may lead to damage of any part of the JP-6. Synthcom Systems, Inc. strives for accuracy in its documentation and reserves the right to modify them at any time for any reason. The owner assumes full responsibility for any damage done – regardless of fault. Proceed at your own risk! It is assumed that the owner will read this document thoroughly before proceeding. Do not attempt if unsure!**

### Tools you will need

The tools required to remove the JP-6 controller board include:

- Medium philips-head screwdriver
- Small flat blade screwdriver
- Antistatic bag – at least 8 inches by 12 inches
- Safety goggles

### Get started!

**Step 1) ) Put on work goggles or other eyewear to avoid injury!** Clear a work area where JP-6 can be worked on, such as a table. Leaving your JP-6 on a keyboard stand is not recommended. Ensure ahead of time that all aforementioned tools are present. **Be sure to back up your patches to tape or a computer's sound card!** Patches shouldn't be lost in during the upgrade process, but it's good to have a copy just in case.

**Step 2)** Unplug all cables from the JP-6. Power, MIDI, CV inputs, headphones, pedals – anything that can be unplugged externally.

**Step 3)** Unscrew 3 screws on the left side of the JP-6 as shown in Figure 1 below (already removed - pointed to by the green arrows)

## Europa Installation Instructions

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Figure 1 – JP-6 Side panel screw locations

There is a similar set of 3 screws on the opposite side of the JP-6. Remove them as well. Set them aside, and don't lose them!

**Step 4)** Unscrew the 3 front panel screws as shown in Figure 2 below:



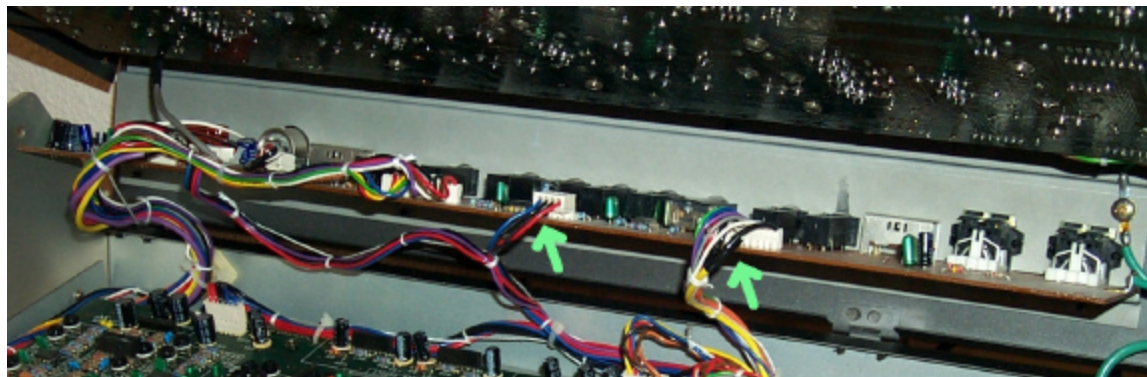
Figure 2 – JP-6 front panel screw locations

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## Europa Installation Instructions

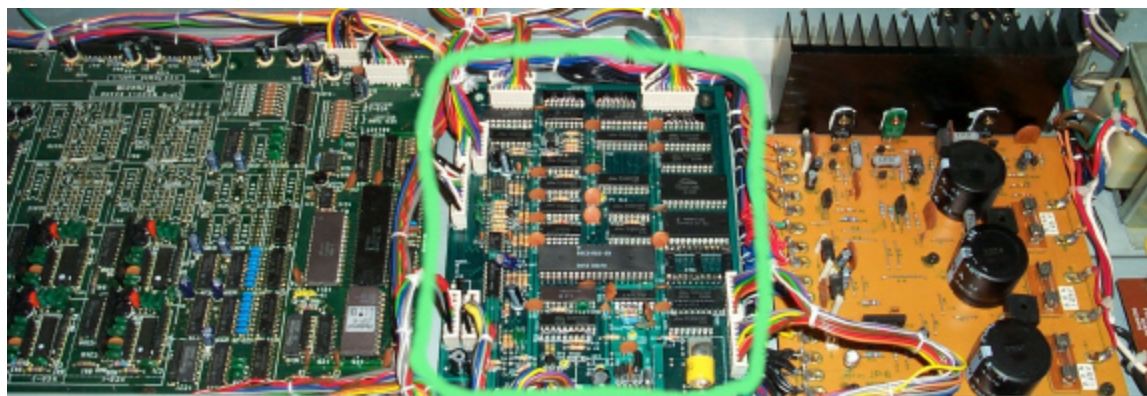
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**Step 5)** Lift the control panel up – it is hinged at the rear of the JP-6. ***Be careful not to lift the front panel so much that it stresses the wires pointed to by the green arrows in Figure 3!***



**Figure 3 – Jack board – Watch that wire stress!**

**Step 6)** Give the front panel support on each side with something long and solid, such as two screwdrivers or two 12” socket extensions. Anything that will prop up the front panel enough to give you room to work without stressing/binding the wires on the jack board will be fine.



**Figure 4 – From left to right - 2 Voice board, controller (surrounded in green), and power supply**

**Step 7)** Locate the controller board. It's the smaller board encircled in green in Figure 4. Note that the picture may not exactly match the controller board encountered as there are several versions. Don't be alarmed if the controller board is slightly different from what's pictured! Before the controller board can be removed, all connectors must be unplugged from it. Each connector has two thin white locking tabs on the outside edge of the board, which hold the connector in place. To remove the connector, the locking tabs must be disengaged from it, either by pulling very gently on the body of the connector towards the center of the board while pulling up, or by inserting a small flat blade screwdriver between the tab and the connector while pulling up. In either case, *it does not require much force to unplug a connector that is not caught on the locking tabs*. Make note of where the connectors go by labeling them or by taking a picture, as the connectors will need to be plugged back into their original locations when the controller board is reinstalled.

## Europa Installation Instructions

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**Step 8)** There are 4 screws at the 4 corners of the controller board. Unscrew them and set the screws aside. **NOTE:** The screws are most likely secured with Loc-tite. Use a pair of pliers to break the seal. Firmly grab the screw with the pliers and turn until it pops. Then remove the screw with a screwdriver. Place the 4 screws in a baggie, along with the 9 screws from the front and side panels, and set the baggie inside the JP-6 on the left side. That way you'll be able to find them when it's time to reinstall your controller board.

**Step 9) WARNING:** Touch the side of the JP-6 to discharge any static buildup that has potentially occurred. Remove the controller board (shown in Figure 5) and place it in an antistatic bag.

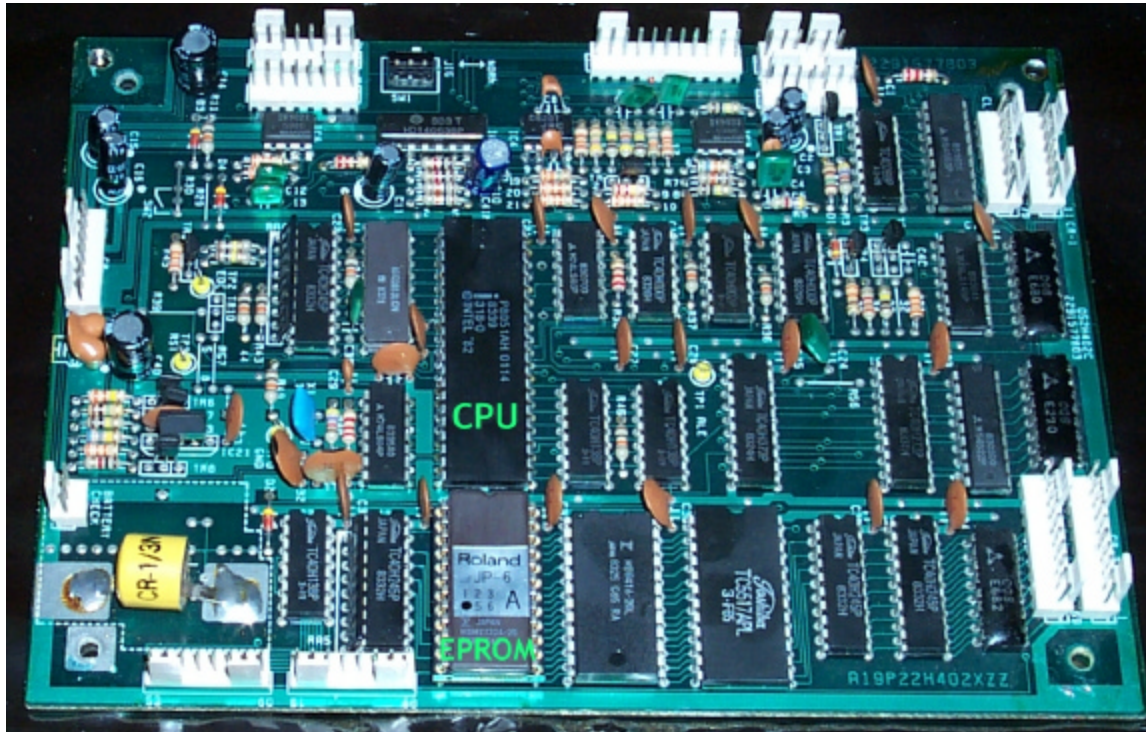


Figure 5 – Controller board

**Step 10)** Place the antistatic bag containing the controller board in a box suitable for shipping, surrounding it by at least 2” of foam padding on all sides. Make sure the bag cannot slide around inside its padding, and make sure the padding cannot move inside the box. We strongly recommend against using packing peanuts, due to the risk of the bag moving to an edge where it can be damaged.

**Step 11)** Write on a piece of paper the following information – your name, address, telephone number, email address, payment information (Visa #, MasterCard #, or PayPal address), and whether you want us to replace your 15 year old battery (\$10). Place the paper inside the box so we will know what to do with your board when we are ready to send it back. Seal the box with shipping tape.

## Europa Installation Instructions

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**Step 12)** Select a shipper. We recommend FedEx Air or Ground, though we will accept packages from anyone who delivers to our door. We can also charge to your shipping account number if you prefer. ***Insure the package for the replacement cost of your JP-6.*** Roland no longer stocks replacement controller boards, so if something happens to your controller board, you will need to buy a replacement JP-6! It is our observation that the United States Postal Service charges more for insurance than other carriers, which negates their lower shipping costs. Address the package to:

Synthcom Systems, Inc.  
1818 NE 27<sup>th</sup> Avenue  
Portland OR 97212  
USA  
503-318-8954

***NOTE to customers outside the United States:*** On the customs forms, write “Return for Repair”. This will insure that no customs duties are charged against the value of your controller board. We will do the same when returning the board, however, customs duties will be charged for the Europa software and battery (if ordered).

**Step 13)** Ship it! Email a tracking number, if available, to [sales@synthcom.com](mailto:sales@synthcom.com), so we'll know when to expect your package. We return 90% of board upgrades the same day we receive them, and will send you a tracking number as soon as it ships. We will return instructions with your controller board on how to reinstall it. Don't worry – no one has messed it up yet!