Instruction Sheet – Replacing SmartPAC PRO RTS Board

The following procedure shows you how to unpack and install a replacement SmartPAC PRO RTS board that is either new or one you have received through the Wintriss Board Exchange (BD EX) program.
Please read all instructions below before proceeding with the board exchange.

NOTICE

Under the Wintriss Board Exchange program, a replacement board can usually be shipped to you overnight if you contact Wintriss Tech Support the previous day. Full details about the program are available by calling Wintriss Tech Support.

Unpacking the Replacement Board

Perform the following steps as soon as you receive your replacement SmartPAC PRO RTS board:

CAUTION

DAMAGE TO BOARD FROM STATIC DISCHARGE

Ground yourself before touching circuit boards or chips by touching a large metal object such as the press. Static electricity can destroy electronic components.

Failure to comply with these instructions could result in property damage.

---

1. Making sure you are statically discharged, carefully unpack the replacement PC board and remove it from its anti-static bag

---

NOTICE

Be sure to save the shipping box and anti-static bag in case you need to return the replacement boards

---

2. Verify that the board has not been damaged during shipment. If damage has occurred, contact Wintriss Tech Support immediately.

NOTICE

Prior to installing the replacement RTS board record all the Main Initialization settings or verify that you have a copy or backup of them. If you are unable to power up the SmartPAC PRO and do not have them backed up or recorded then you may need to re-enter them where needed.

Installing the Replacement Board

To remove the malfunctioning SmartPAC PRO RTS board and install the replacement board, perform the following steps:

⚠ WARNING

ELECTRIC SHOCK HAZARD

- Ensure that the power source is off before you replace electronic components in a control.
- Disconnect power from the machinery it is connected to before replacing electronic components. This includes disconnecting power to the machine control and motor.
- Ensure that servicing is performed by qualified personnel.

Failure to comply with these instructions could result in death or serious injury.

---

3. Shut off the power to the SmartPAC PRO.

4. Open the SmartPAC PRO enclosure or console.

5. Making sure you are statically discharged, remove the ProCamPAC and DiProPAC boards (If your SmartPAC PRO is equipped with them).

6. Unplug all wired connectors and cables from the SmartPAC PRO RTS board

7. With a ¼-in. nut driver, unscrew all nuts (4) and standoffs (5) except the three circled in red (Figure 1 below).
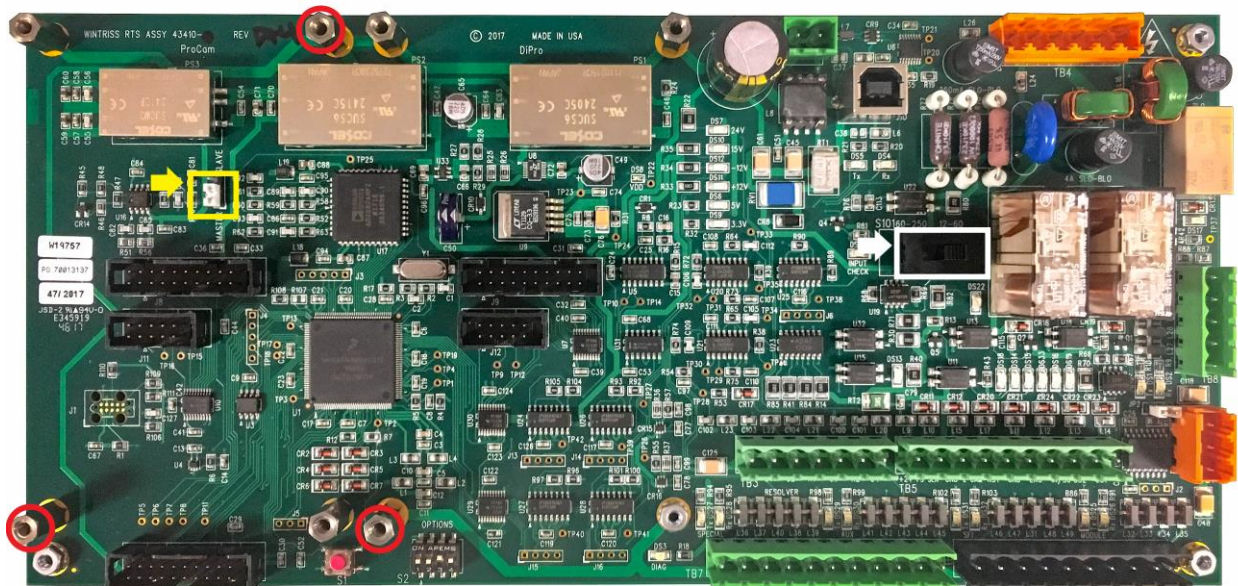

Figure 1. SmartPAC PRO RTS Board

8. Remove the malfunctioning board and tag or label it in a conspicuous place to identify it.

Instruction Sheet   January 2019   1143600
Replacing SmartPAC PRO RTS Board   Rev. A   Page 2
Wintriss Controls Group   978-268-2700   toll free 800-586-8324

9. Place the malfunctioning board you just removed and the replacement board side by side on a clean, flat, dry surface.

10. Set the JP101 Master/Slave jumper (Figure 1 outlined in yellow) and S101 Input Check switch (Figure 1 outlined in white) in the same positions as the malfunctioning board you just removed.

11. Install the replacement board in the enclosure, or on the mounting plate if your unit is a panel mount or remote RTS reusing the four ¼ -in. nuts and five standoffs you removed in step 7 and tighten them down with the ¼ in. nut driver.

12. Reinstall the ProCamPAC and DiProPac boards you removed in step 5 (If your SmartPAC PRO is so equipped)

13. Plug all the connectors and cables you removed in step 6 back into the new replacement board. **Double check your work and verify that all connectors and cables are aligned and seated properly. Also that no wires are loose or disconnected.**

14. Close the door of the enclosure or console etc.

15. Power up the SmartPAC PRO with the PROG/RUN key in the PROG position.

16. When the SmartPAC PRO finishes powering up after about a minute, you will see the screen in Figure 2 below. Select the OK button (If this screen does not come up, cycle power and try again).
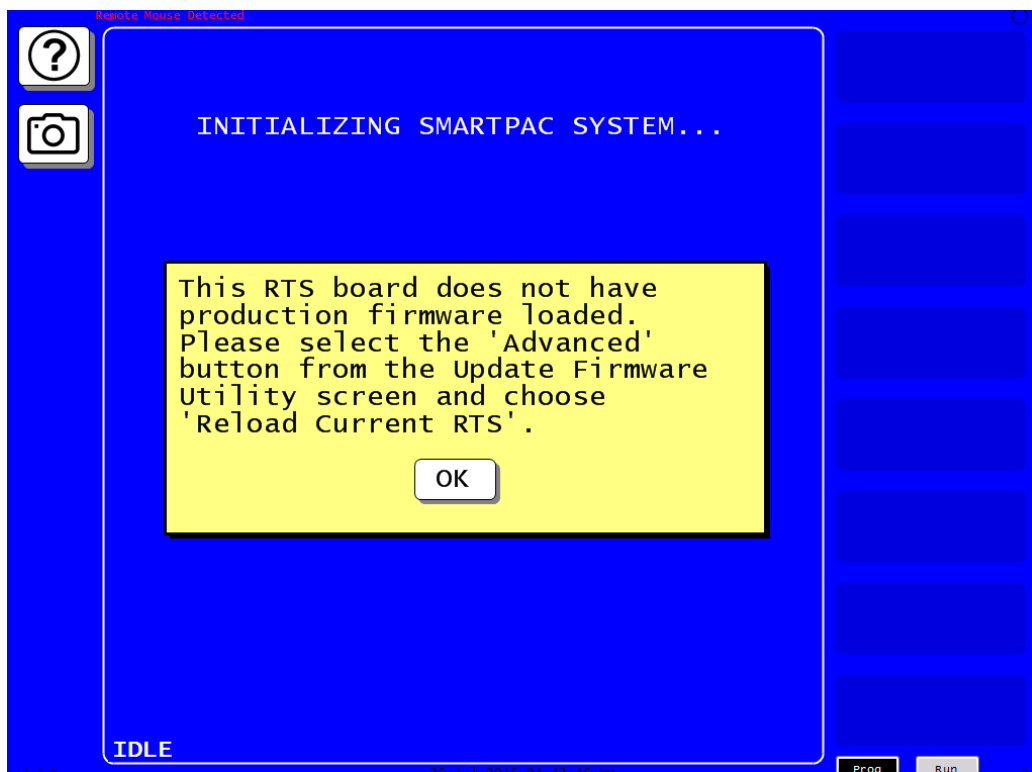

Figure 2

NOTICE

If the screen in Figure 2 does not come up and instead you get the fault message below, it means that the SmartPAC PRO Main firmware is too low and needs to be updated to a minimum of V3.75. Select OK and contact Wintriss Tech Support 800-586-8324 option 2 for assistance.

```
This RTS board does not have
production firmware loaded.
Please call Wintriss Tech
Support with this serial number:
XXXXXXX to get the latest
firmware.

        Diagnostics              OK
```

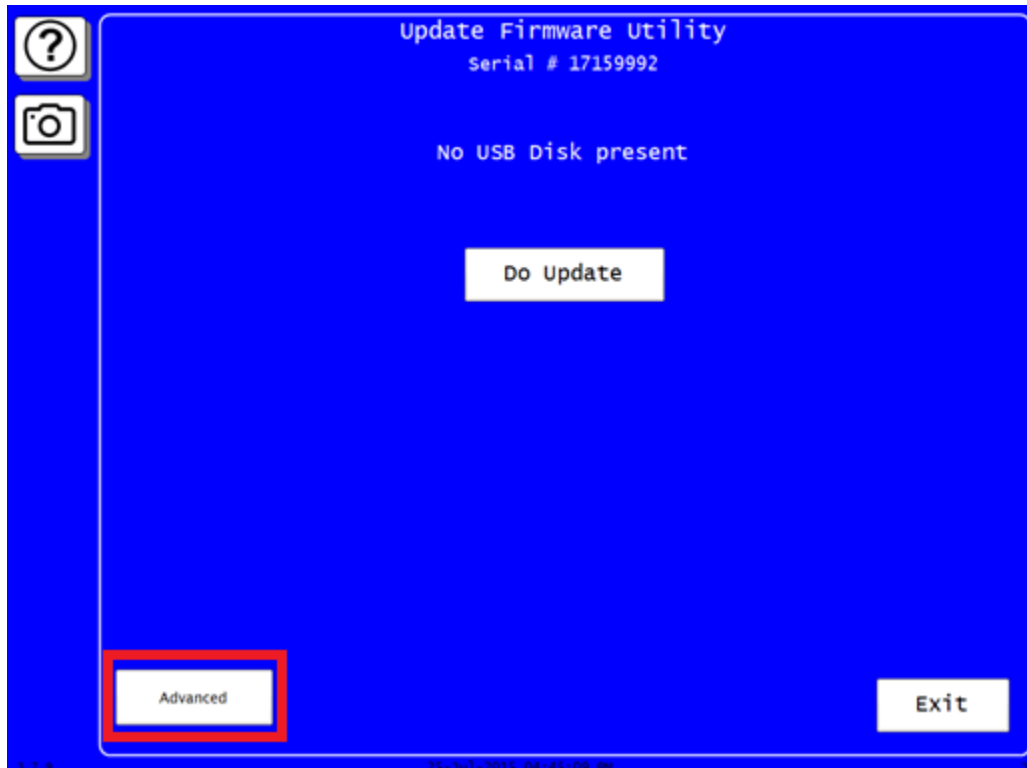17. After pressing the OK button in step 16, select Advanced in Figure 3 below.

```
Update Firmware Utility
     Serial # 17159992


   No USB Disk present



       Do Update




Advanced                              Exit
```

Figure 3

NOTICE

Prior to selecting Reload Current RTS Firmware, verify that you have a copy or backup of the SmartPAC PRO's Main Initialization parameters. If not, you may need to re-enter them as needed.

---

18. Next select Reload Current RTS Firmware shown in Figure 4 below. The SmartPAC PRO will load the current firmware and boot up again on its own.

Figure 4

19. Verify the following: If your replacement RTS board is Rev F or higher you will notice a blue LED illuminated in the narrow space between the ProCamPAC and DiProPAC boards, provided your JP101 Master/ Slave jumper is in the Slave position or not illuminated if it's in the Master position (Figure 5 next page). If this is not the case, contact Tech Support.

20. Enter the Main Initialization Menu and verify that all the settings look correct or re-enter them as needed, then proceed to load a tool and operate the press.

21. This concludes the RTS board replacement. If you have any issues or questions please contact Tech Support for assistance 800-586-8324 Option 2.
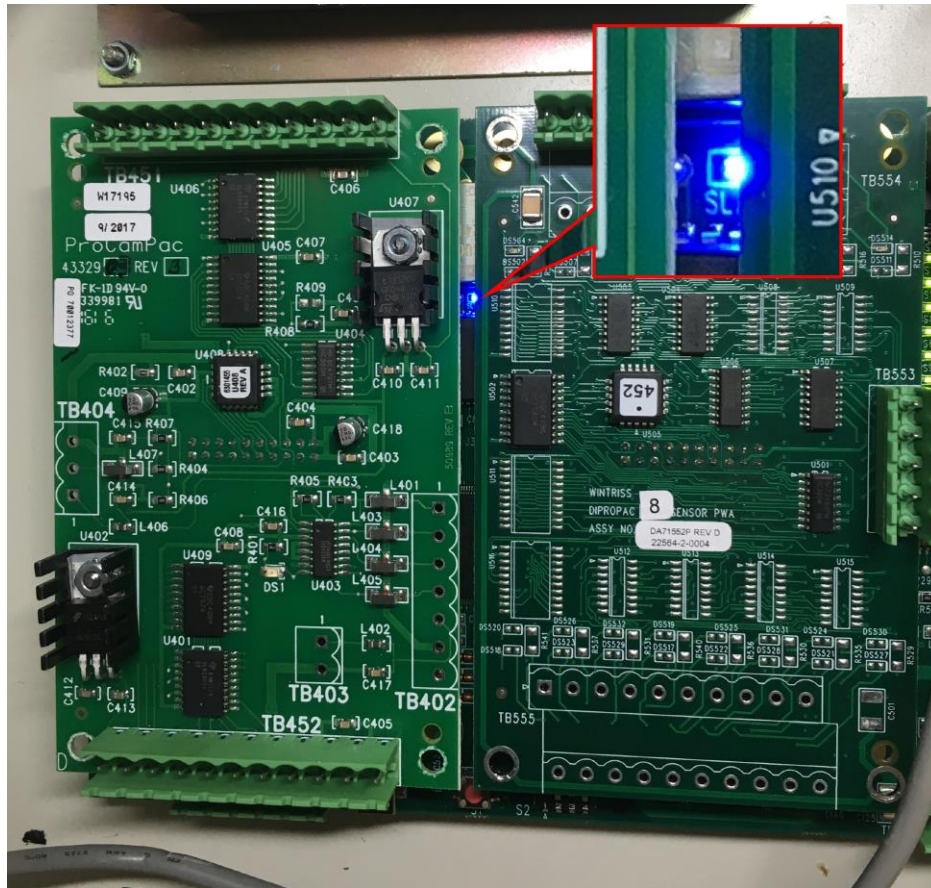
Figure 5 – Master/Slave jumper in Slave position

Board Exchange Only

1. Place the malfunctioning RTS board in the anti-static bag in which you received the replacement board.

2. Place the anti-static bag with the malfunctioning board in the box in which you received the replacement board and ship it back to Wintriss Controls, using the shipping label with the Return Authorization (RA) number. Contact Wintriss Tech Support if you have additional questions 800-586-8324 option 2.