



# **MODEL 9100**

## **SINGLE TO DUAL POWER SUPPLY**

### **FIELD CONVERSION PROCEDURE**

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**DOCUMENT UPDATES**

APRIL 27, 2012 REMOVED SPARE FUSE FROM KIT

MARCH 14, 2014 UPDATED PART NUMBERS

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**INTRODUCTION**

This guide covers the steps for converting the 9100 series terminal from a single to a dual power supply configuration. The following procedures include a list of tools and the hardware required for the conversion.

**SCOPE**

The following procedures apply to all Triton certified service personnel involved in the process of maintaining or converting Triton ATMs.

**OVERVIEW**

The 9100 Single to Dual Power Supply Conversion will require the replacement of the power supply assembly. The kit includes all cabling and associated mounting hardware. The single power supply will be replaced with a dual power supply and its associated adapter bracket. Additional primary components of the kit include a 6" AC extension cord, new power cables for the printer controller and docking boards, as well as the Mini-Mech and TDM dispensers, and a cabinet ground wire for any applicable TDM installations that do not currently have one.

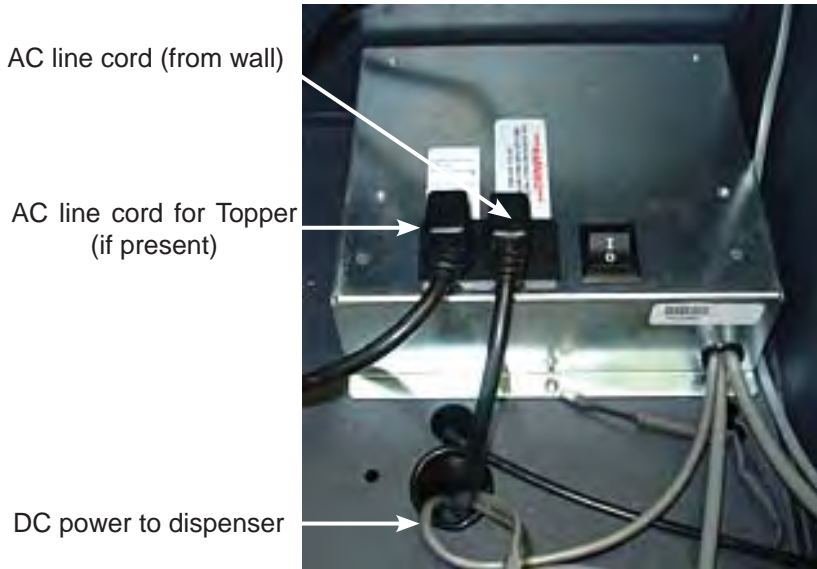
## FIELD CONVERSION PROCEDURE

### REQUIRED PARTS AND TOOLS

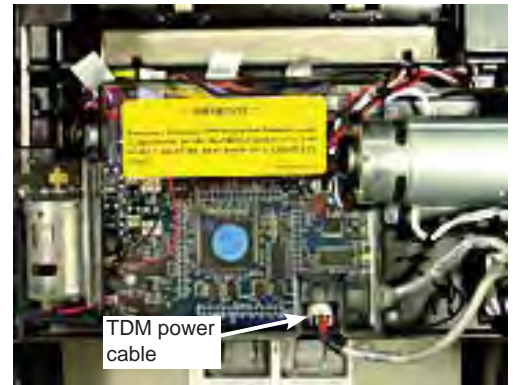
TOOLS REQUIRED		
#1 and #2 Phillips screwdriver (Magnetic recommended) 11/32" (9mm) nut driver ESD wrist strap with grounding cord		
9100 SINGLE TO DUAL POWER SUPPLY CONVERSION		
PARTS SUPPLIED		
PART NUMBERS	DESCRIPTION	QUANTITY
06200-08161	9100 Power Supply Replacement Kit	1
ACCESSORY BOX		
09200-01215	Dual Power Supply	1
03011-05216	Power Adaptor Bracket	1
02054-00302	Power Adaptor Bracket Mounting Screws	3
02301-00024	#8-32 w/SEM Mounting Nut	3
09120-00388	Printer Power Cable	1
09120-00073	DC Power Supply to Docking Board Power Cable	1
09120-07054	Mini-Mech Power Cable W/O fuse	1
01200-00043	Fuse Medium Blow 4A ROHS for Mini-Mech cable	1
09120-07094	TDM Power Cable	1
09120-07034	Cabinet Ground Wire	1
09120-07095	AC Power Extension Cable	1
03072-00015	Ty Wraps	4

## REMOVAL OF THE 9100 SINGLE POWER SUPPLY

1. Perform the approved power down procedure. Disconnect the AC line cord from the wall outlet.
2. Refer to Figures below. Disconnect the AC line cord and topper (if present) at the DC power supply. Plug the new 6" extension cord into the AC line cord. Leave it unplugged from the power supply.
3. Disconnect the DC power cable for the dispenser at the dispenser. Feed the cable up into the top cabinet enclosure.

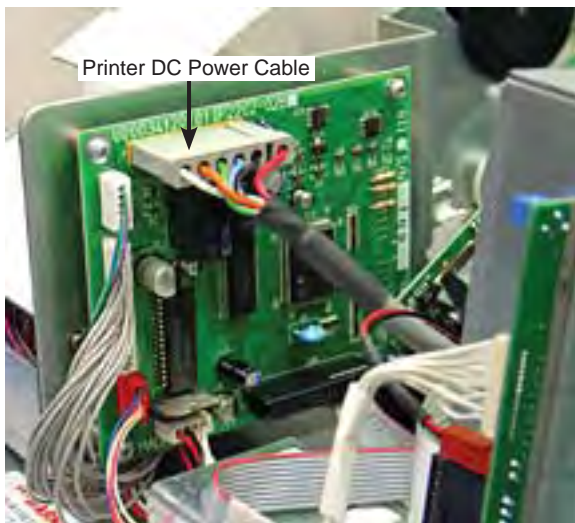


Disconnecting the 9100 single DC power supply

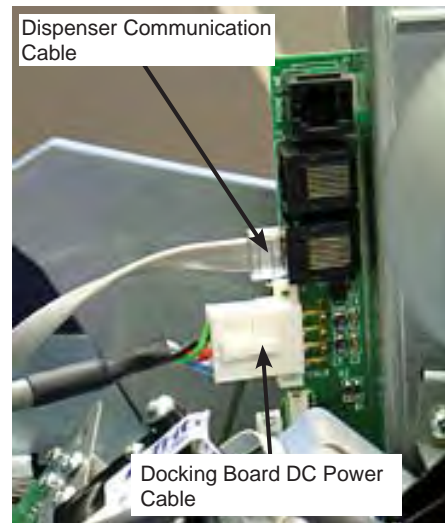


The DC power cable connection at the TDM dispenser.

4. Refer to Figures below. Disconnect the DC power cable for the receipt printer from CN1 on the printer controller PCB. Connect the new printer power cable at the same point.
5. Disconnect the DC power cable for the docking board from J4 on the docking board (inward edge connector of the mainboard). Connect the new docking board power cable at the same point.



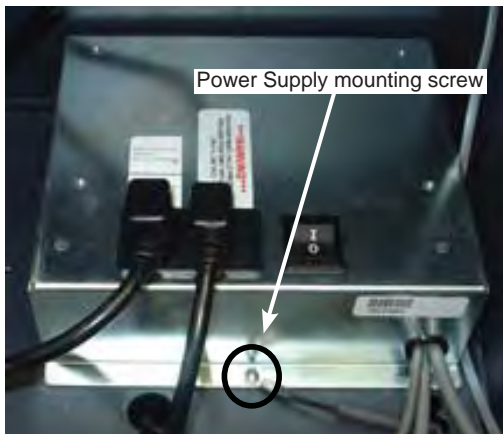
DC power connection at CN1 on the Printer Controller PCB



DC power connection at J4 on the Docking Board

## FIELD CONVERSION PROCEDURE

- Refer to the Figures below. Remove the DC power supply mounting screw (and ground straps if present) along the front edge of the power supply case.
- Slide the DC power supply forward until it stops and then carefully lift it straight up from the top cabinet enclosure (with attached cables).



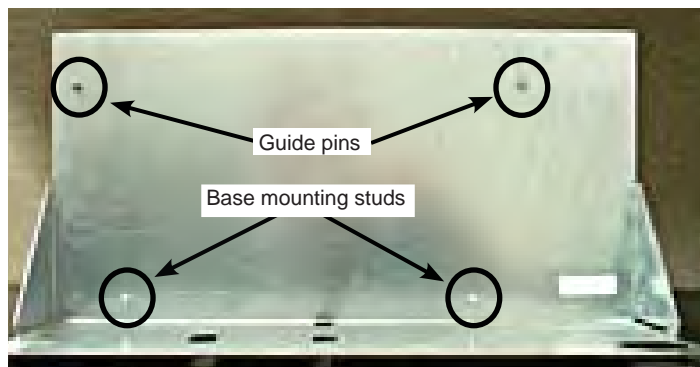
Location of single power supply mounting screw



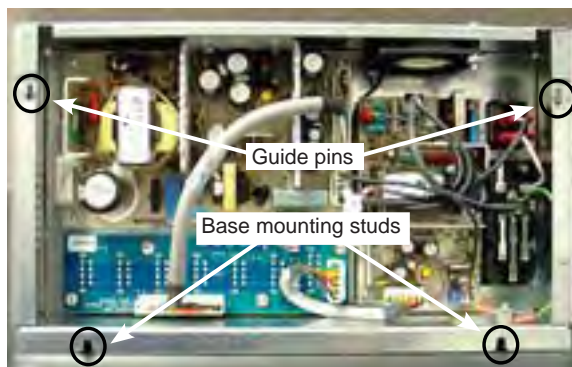
Slide the single power supply forward and lift it from the cabinet top enclosure

### INSTALLATION OF THE DUAL POWER SUPPLY

- Refer to the Figures below. Start the nuts on the two (2) base mounting studs on the power adaptor bracket. Do not tighten.
- Mount the dual power supply on the power adaptor bracket. Make sure the guide pins and base studs on the bracket fit into the corresponding locations on the backside of the power supply. Make sure the U-shaped openings on the lower edge of the power supply slip onto the base mounting studs between the nuts and the bracket.
- Press down on the dual power supply until the guide pins on the bracket slide all the way up into the corresponding slots on the power supply. Tighten the nuts on the base mounting studs.



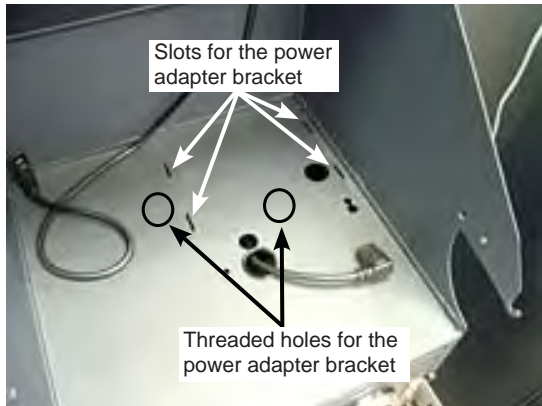
Dual power supply mounting points on the power adaptor bracket



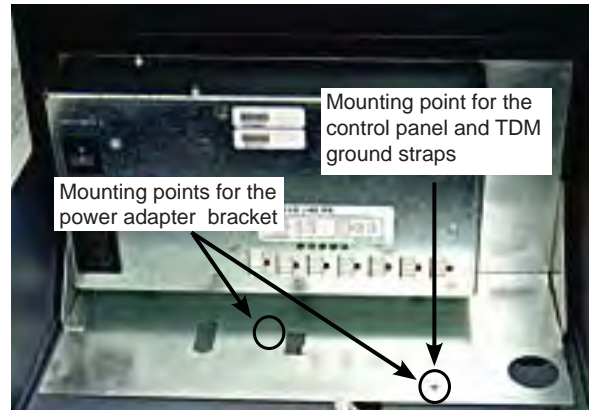
Mounting points on the backside of the power supply

## 9100 SINGLE TO DUAL POWER SUPPLY CONVERSION

4. Refer to the Figures below. Set the adaptor bracket for the dual power supply in the back of the top enclosure with the base plate (the plate side with the openings) down and the angle sides facing forward. Make sure the four (4) L-shaped locking tabs underneath the base plate slip into the four (4) open slots on the base of the top cabinet enclosure.
5. Push the power adaptor bracket towards the rear until it locks into place.
6. Secure the power adaptor bracket to the base of the top cabinet enclosure at the center rear mounting point. Secure the power adapter bracket, as well as the ground wires for the control panel and TDM dispenser (if installed) to the base of the top cabinet enclosure at the right front mounting point.

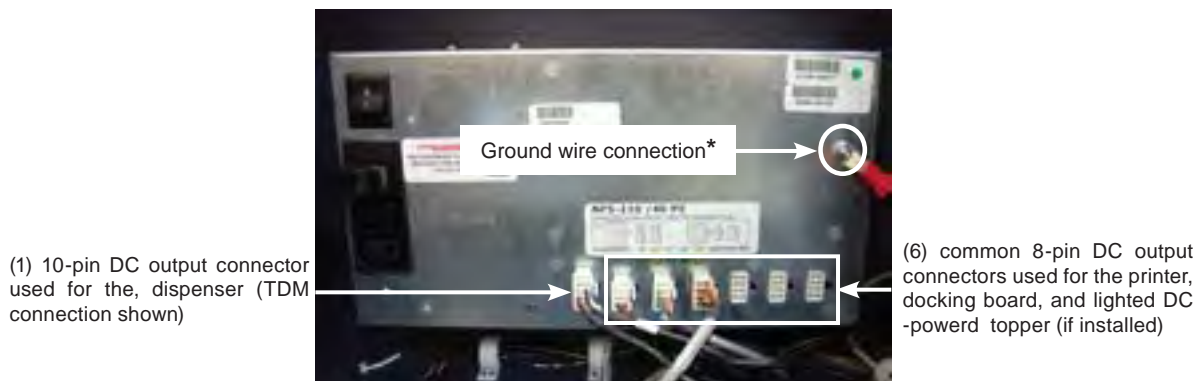


The mounting points for the power adapter bracket



Dual power supply and adapter bracket in the top cabinet enclosure

7. Plug the AC line cord (and the topper AC cord if present) into the dual power supply. Ensure the power supply AC switch is in the Off position, and that the line cord is disconnected from the wall outlet.
8. Refer to the following Figures. Dress and route the DC power cables for the printer, and docking board, from the control panel to the dual power supply. Plug the printer, docking board and the lighted DC-powered topper (if one is installed) into any of the six (6) common 8-pin DC output connectors that are available on the power supply.
9. Plug the specific DC power cable for the installed dispenser type into the single 10-pin DC output connector on the dual power supply.



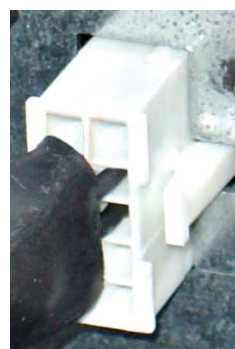
Dual power supply DC outputs and ground wire connection.

\* Additional power supply grounding point, depending on the length of the ground wire(s)

## FIELD CONVERSION PROCEDURE



The TDM dispenser DC power cable connection (10-pin connector) at the dual power supply

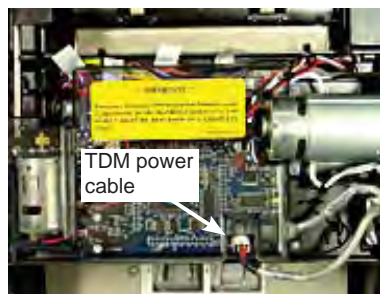


The Mini-Mech dispenser DC power cable connection (10-pin connector) at the dual power supply

### \*\*\* IMPORTANT \*\*\*

The Mini-Mech DC power cable requires an in-line 4A fuse. Before connecting a Mini-Mech DC power cable to the dispenser, make sure the correct fuse is installed in the casing and both ends of the cable are securely fastened. One fuse is provided in the kit. There is no fuse in the provided cable.

10. Feed the other end of the dispenser DC power cable (and the ground wire if a TDM dispenser is installed) down through the opening in the bottom of the top cabinet enclosure (the same one used for the AC line cord and the dispenser communications cable).
11. Refer to the Figures below. Connect the DC power cable to the dispenser. If a TDM dispenser is installed, plug the provided the ground wire to the existing spade connector on the dispenser.



The DC power cable connection at the TDM dispenser.



The DC power cable connection at the Mini-Mech dispenser.



The ground strap connection at the TDM dispenser.

12. Plug the new 6" AC extension cord into the power supply (make sure the AC line cord is plugged firmly into the extension cord).
13. Plug the AC line cord into wall outlet.
14. Press AC power button on power supply to the ON (1) position and perform start up procedures.
15. Ensure all assemblies are operating correctly.