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MAGNUS VLF - TH3 POWER SUPPLY

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Upgrade Procedure

Revision History

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A-A	April 14, 2007	CARL RUECK	Production Rev.

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1 Introduction

1.1 Scope

The intention of this document is:

- Replacing the B version power supply with the C version, (500-02386B → 500-02386C) on Magnus VLF output devices with Thermal 3 imaging heads.

1.2 Audience

Field Service

1.3 Nomenclatures

- TH3 PM TH3 Power Module Assembly (500-02386B)
- TH3 PM TH3 Power Module Assembly (500-02386C)

2 Upgrade Procedure

2.1 Removal of Version B

- Turn off the main AC power switch (ES1) at the back of the Magnus VLF and use a safety approved lock out device. Follow all lock out safety procedures.
- Remove the panels on the front of the power box.
- Disconnect Cable 220-00995A from J3 on the Power Distribution Board (10-4112)
- Remove the wires on cable 220-00995A attached to LF1.
- Disconnect the status output cable 220-00992A from J2.
- Disconnect the DC output cable 220-00991A from J1.
- Loosen the 4 thumb screws that hold the power supply into the power box.
- Remove the entire assembly from the power box.

2.2 Installation of Version C

- Screw down the Version C power supply into the same location as the Version B, using the thumb screws on the bracket. Note that the connectors on Version C are now on the top versus the ends of the device. The reason for this is to make the unit universally installable on both Magnus 800 as well as Magnus VLF.

- Note also that the AC inlet has been changed from LF1 to J3. J3 now has an IEC 320 (EN60320) connector.

- Plug the AC input cable 220-00995B (supplied) into J3.

- Plug the AC input cable 220-00995B into J3 on the Power Distribution Board.

- Route the status output cable 220-00992A around to the top of the power supply and plug it into J2. The cable is long enough. It may be necessary to reroute it from the Lionel Board by removing it from the wiring harness in the back of the power box.

- Route the DC output cable 220-00991A around to the top of the power supply and plug it into J1.

3 Return to Service and Testing

3.1 Power up the device

- Remove the lock out device and turn the main power switch ES1 back on.

3.2 Testing

- Once the Magnus VLF has initialized check to ensure that the latest firmware is installed.

http://techplanet.creo.com/firmware/CTP/Head/Thermal3/versions.htm

- Turn on the TH3 imaging head to ensure that there are no errors.

- Run an ATP test plot to ensure customer satisfaction.