Drum Vacuum Pump W/Encl

Field Service Upgrade Procedure

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Creo Inc.
A subsidiary of Kodak
3700 Gilmore Way
Burnaby, BC
Canada V5G 4M1
(604) 451-2700

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Revision History

Revision	Date	Author	Comments
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1. BACKGROUND

The manufacturer of the vacuum pumps used in the Drum Vacuum Pump Assemblies (DVP) discontinued manufacturing of the pump and offered a replacement part for the pump. The internal configuration of the new pump is different than the discontinued pump and requires the programming of the Drum Vacuum Drive's (DVD) power inverter to be changed to accommodate the new pump.

2. SOLUTION

Where an existing DVP must be replaced by a DVP containing a new vacuum pump, the programming of the DVD must be changed to accommodate the new vacuum pump. To distinguish between a DVP containing an old vacuum pump and a DVP containing a new vacuum pump, the part number of the DVP has been changed. Those DVP's with a new part number (and new vacuum pump) have a part number label on the exterior of the DVP to distinguish them from the old. This upgrade procedure details the actions required to install the new DVP in place of an old DVP.

3. SCOPE

This procedure details the steps necessary to replace the older Drum Vacuum Pump (part # 50-1806A) with the new DVP (part # 500-02732A).

4. PARTS REQUIRED

Part Number	Part Name	Quantity
77-0092A	Doc, Procedure, DVD Programming	1
709-00268A	Doc, Procedure, P7 DVD Programming	1
500-02732A	Assy., Mech., Drum Vacuum Pump W/Encl., FX1, SLV	1

5. TOOLS REQUIRED

- 2.5 mm Allen Key
- 3 mm Allen Key
- 4 mm Allen Key
- Crescent Wrench
- Flat Screwdriver (small)
- Flat Screwdriver (medium)
- Flat Screwdriver (large)

- Channel Lock Pliers

6. PROCEDURE

1. Ensure that the replacement DVP is a new vacuum pump assembly. It should have an exterior label indicating its part number (500-02732A). See figure 1.



Figure 1

2. Lock out the Drum Vacuum Drive (DVD) so that it cannot be powered on. The power handle of the DVD has a lockout mechanism. (The red portion of the handle.) Push on the red protrusion located in the knee of the power handle. This pushes out the red lever on the front side of the handle. Grasp and pull out. The lever has rings on its underside. Use a padlock or large wire to insert into the ring. With the red lever held out, the power handle cannot be turned to the "on" position.

3. Remove the Drum Vacuum Pump (DVP) cover.

4. Remove the DVP junction box's cover (mounted on the interior wall of the DVP). Disconnect the wires entering the junction box through the DVD to DVP power and control cable (16 meter armored cable). (3 power phase wires, 3 cooling fan power wires, 2 temperature wires and 4 ground wires.) Remove the armored cable from the DVP.

5. Remove any restraints holding the original DVP in place and move the original DVP from its installed site. Replace the original DVP cover.

6. Move the replacement DVP into position on the installed site and restrain the DVP in the same manner as the original DVP. Remove the cover of the replacement DVP.

7. Install the DVD to DVP power and control cable (16 meter armored cable) in the replacement DVP. (If the DVP was delivered with a cable installed, remove it.) Connect the wires from the power and control cable in the same manner as per the old DVP. The wire connections are specified by a label on the inside of the junction box cover. Reinstall the DVP junction box cover.

8. Remove the lockout on the DVD. Remove the DVD's cover and use the crescent wrench to turn on the DVD. Documents 77-0092A (Document Procedure DVD Programming, FX1, P5) and 709-00268A (Document Procedure P7 DVD Programming FX1) have been included in the kit. Use the correct document (depending upon the type of inverter in the DVD) to reprogram the inverter for the new pump (part # 378-00010). Only the program parameters marked in bold should require changing. (Note: These documents work as well for Wide II Thermoflex systems.)

9. Test the installation by setting the DVD to manual operation and pressing the run button. Ensure that the vacuum pump is producing vacuum and that the cooling fan in the DVP is operating and drawing air in the correct direction. Stop the pump and power off the DVD.

10. Reinstall the DVD cover and the DVP cover.

11. Power on the DVD and run the DVD / DVP from the Thermoflex system terminal to ensure proper operation.

12. Installation complete.

Technical Contact: Pat Devin, Gary Edge

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