# Field Change Order

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|---|---|
| ECO # | B812 |
| Description: | cooling fan upgrade |
| Product affected: | TS3 |
| Priority: | Next Service Call |
| Action: | Replace and relocate existing cooling fans |
| Machines affected: | S67, S68, S69, S70, S72, S73 |
| Installation time: | 1 hr. |
| List Price: | |
| Release Date: | 09/11/97 |

Detailed Description:
The fan box version 11-0441D-A does not provide adequate forced air cooling for the vacuum motor, which is a proofing upgrade for Spectrum. In order to provide improved forced air cooling the original two upper right side 240V ac fans powered off the AC mains have been replaced with a single 120V ac fan powered off T1 and positioned on the lower right end panel of the fan box. It is important to upgrade the fan box cooling system of the above six units even if they never get upgraded with the Spectrum proofing option so that Service has only one version of the base unit fan box in the field and only 120V ac fan assemblies for spare parts. The following instructions are for retrofitting the existing fan box cooling system from 11-0441D-A to 11-0441D-B.

Special tools required:

Parts needed:

| Part no. | Description | Quantity |
|---|---|---|
| 10-3662A | 120 V fan assy. | 1 |
| 15-3173 | 5A panel mount circuit breaker | 1 |
| 18-3017 | cable ties | 30 |
| 57-4818A | blocking plate | 1 |
| 74-3153B-A | CB label info | 1 |
| | | |
| | | |

Version changes:

| Part Changed (Description) | Old Version | New version |
|---|---|---|
| | | |
| | | |
| | | |

Version change notes:
Old Parts:

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***Procedure:***

1. Turn off the Trendsetter.
2. Remove the fan box end panel with a flat blade screw driver, and also remove the service access panel over the fan box wiring tray with a 3 mm hex tool.
3. Unplug the two Amp Mate-N-Lok 1X3 receptacles from the two existing 240V ac fans, and remove the two fan assemblies 10-1436A, four fan guards and the mounting screws and washers (two of the fan mounting screws will be required for installing the new 120 V fan assembly in Step 7, the four fan guard mounting screws will be required for installing the blocking panel in Step 9, discard the rest).
4. Modify cable assy 10-3624A-A by removing the two sections that were disconnected in Step 3 (See Figure 1). The two sections can be traced back from the connectors and removed from the fan box wiring tray terminal block TB4. Remove the ground screws by cutting the tie wraps securing the sections to the rear panel of the fan box. Note that the panel covering the carriage motor belt will have to be removed in order to cut some of the tie wraps. Discard the removed sections of cable assy 10-3624A-A and re-label the remaining assy 10-3624B-A. Proceed to Step 5 without securing the cable assemblies back in place and without installing the panel covering the carriage motor belt.

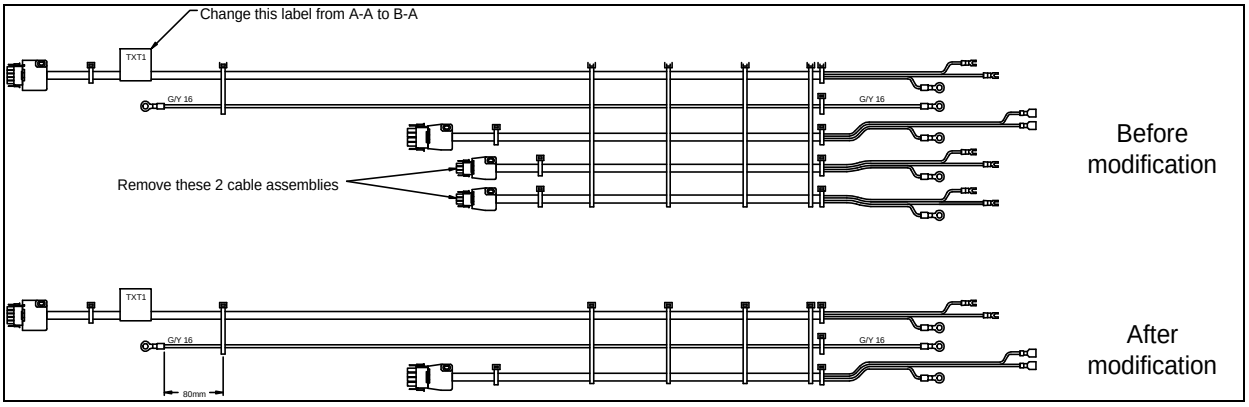



Figure 1: Required cable modification to 10-3624

5. Remove the existing label 74-3153A-A from the lower left end panel of the fan box and replace with the new label 74-3153B-A as shown in Figure 2.

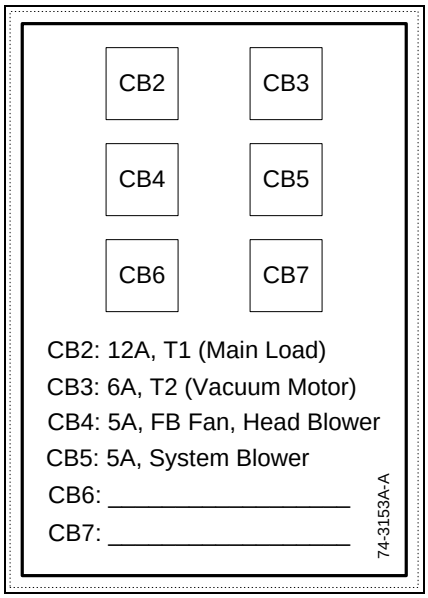



Figure 2: Label 74-3153A-A

6. Remove and discard the existing H-Plug installed in the opening labeled CB6 in the fanbox circuit panel, and install the 5A circuit breaker 15-3173 in this opening.
7. Install the new fan assy 10-3662A-B in the following sequence:
    - Install the fan (oriented with the air flow inward and the wires exiting the left side) behind the existing fan guard on the bottom right of the fan box with the two mounting screws saved from Step 3 (use loctite and insert the screw through the fan body with the head inserted from inside the fan box).
    - Route the cable along the existing path of wires towards the fan box wiring tray.
    - Connect the push-on terminal of the black wire to either side of the circuit breaker CB6 installed in step 6.
    - Connect the push-on terminal of the brown wire to the other side of the circuit breaker CB6 installed in step 6.
    - Connect the spade terminal of the brown wire to pin 3 of terminal block TB5 adjacent to other brown wires).
    - Connect the spade terminal of the white wires (double crimped) to pin 5 of terminal block TB5 (adjacent to blue wires)!
    - Connect the ring terminal (ground wire) of the green/yellow insulated grounding wire from the fan to the wiring tray near mid section along the right edge by removing the securement screw of an adjacent ground wire, stacking the ring terminals, and reinstalling the screw.
    - Connect the ring terminal of the green/yellow insulated grounding wire from the Amp Mate-N-Lok 1X3 receptacle to the wiring tray rear section at the right by removing the securement screw of an adjacent ground wire, stacking the ring terminals, and reinstalling the screw.
    - The Amp Mate-N-Lok 1X3 receptacle is reserved for a future Spectrum proofing option upgrade (providing power for the vacuum motor cooling fan that will be installed at that time). For now route the cable assy along the rear panel of the fan box along the path of the other cable assemblies such that the unused Amp Mate-N-Lok 1X3 receptacle is located in the vicinity of the thermal head blower.

8. Secure the cable assemblies back in place along the rear panel of the fan box with tie wraps 18-3017, and reinstall the panel covering the carriage motor belt.
9. Remove and discard the fan guard and mounting screws from the bottom left of the fan box, and replace with the blocking plate 57-4818A placed over the opening from the outside and secured with the four screws saved from Step 3 (use loctite and insert the screw heads from outside of the fan box).
10. Reinstall the service access panel over the fan box wiring tray that was removed in Step 2.
11. Re-check all of the above wiring connections, power up the unit and ensure that the newly installed fan box cooling fan is working and correctly oriented so that the air flow is inward.
12. Reinstall the fan box end panel that was removed in Step 2.