



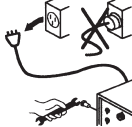
Voyager III Touchscreen Replacement

Field Service Bulletin

806630 – Revision 0 – June 2010

Hypertherm®

VOYAGER III TOUCHSCREEN REPLACEMENT

		WARNING ELECTRIC SHOCK CAN KILL
	Engage the emergency Stop button on the CNC and disconnect electrical power before performing any maintenance.	

Introduction

Purpose

This FSB describes the steps for replacing the touchscreen in the Voyager III CNC.

Materials and tools

No. 2 Phillips screwdriver

5/16 in. thin-wall, deep-socket wrench

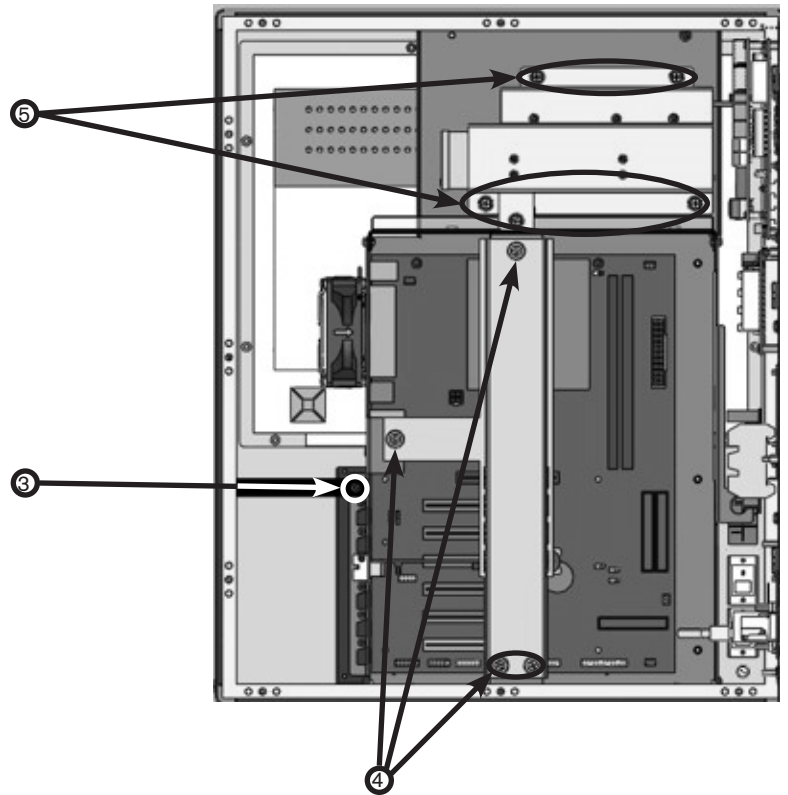
USB keyboard

Kit 228616 contents

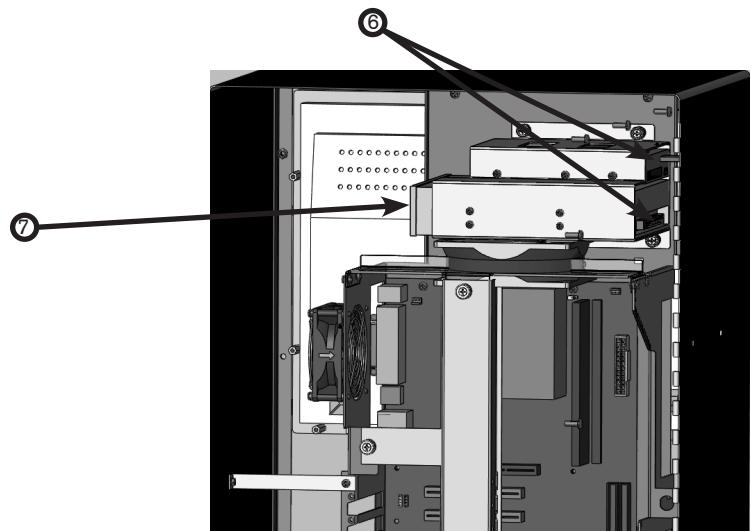
Part number	Description	Qty
007047	Display module: 15 in. touchscreen	1
008834	Standoff: 8-32 x 1/4 Hex x 1 in.	8
806630	FSB: Voyager III Touchscreen Replacement	1

Remove the touchscreen

1. Use a Phillips screwdriver to remove the 12 screws from the perimeter of the rear door.
2. Open the rear door.
3. Unfasten the screw on the wall brace and remove it.
4. Unfasten the 4 thumbscrews on the card slot bracket and remove it.
5. Loosen the 5 thumbscrews on the drive chassis.



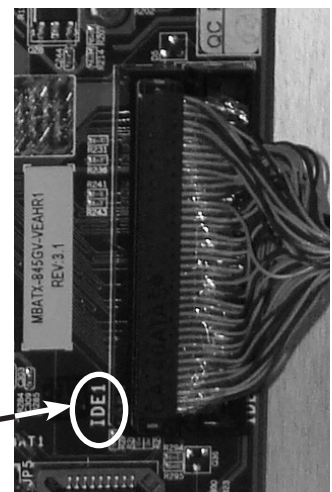
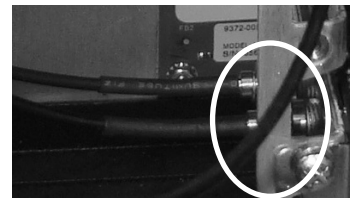
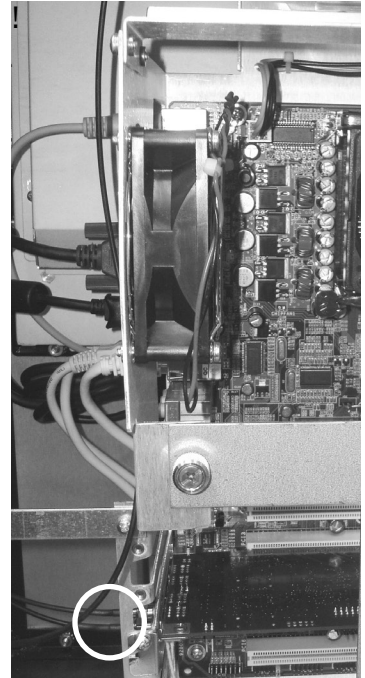
6. Pull the drive chassis out slightly and disconnect all the cables.
7. Remove the drive chassis.



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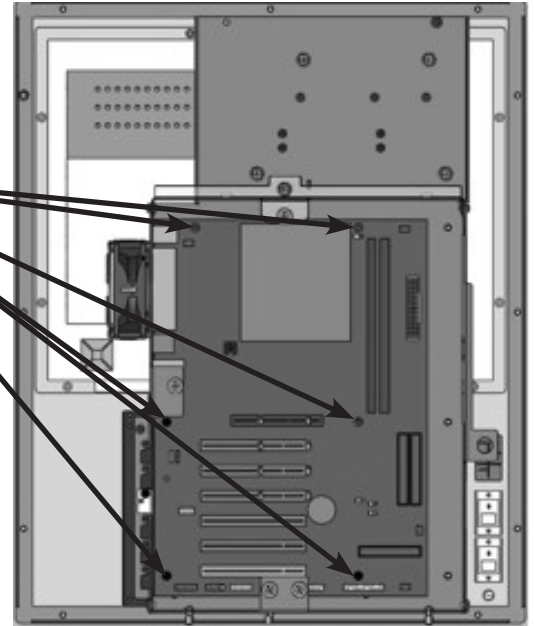
8. Note the position of all the cables on the motherboard and disconnect them.

Note: SERCOS cables must be reattached in the original orientation. To insure proper reconnection, label them before you remove them.

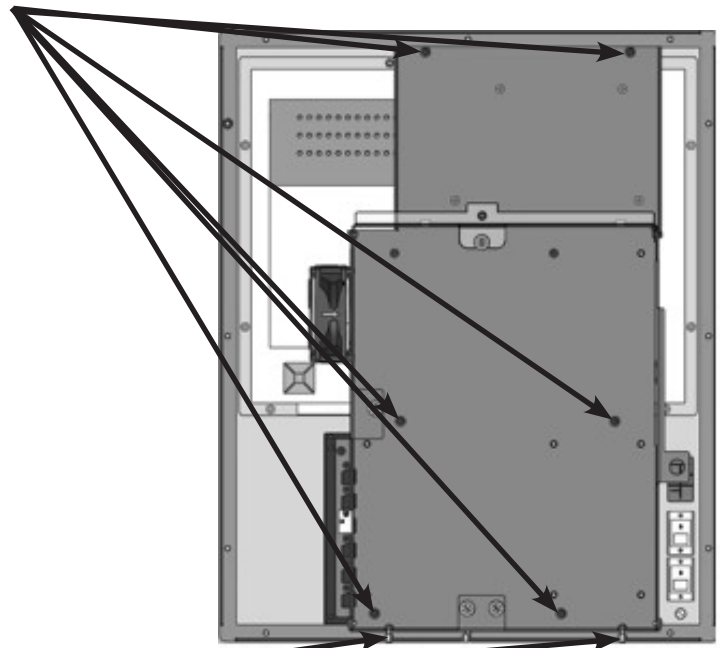


Note: This cable is connected to the IDE1 connector.

9. Remove the 6 screws that attach the motherboard to the sub-chassis and remove the motherboard.



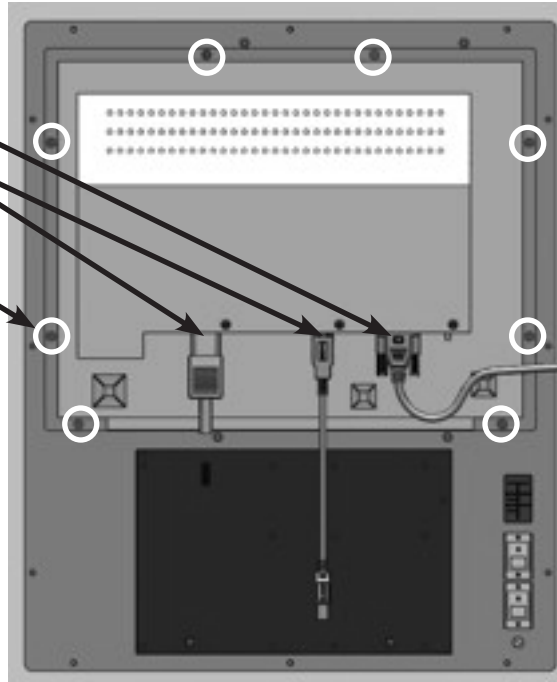
10. Remove the 6 screws that hold the sub-chassis to the enclosure and remove the sub-chassis.



11. Remove two nuts at bottom of sub-chassis. The green ground wire will be reattached during reassembly.

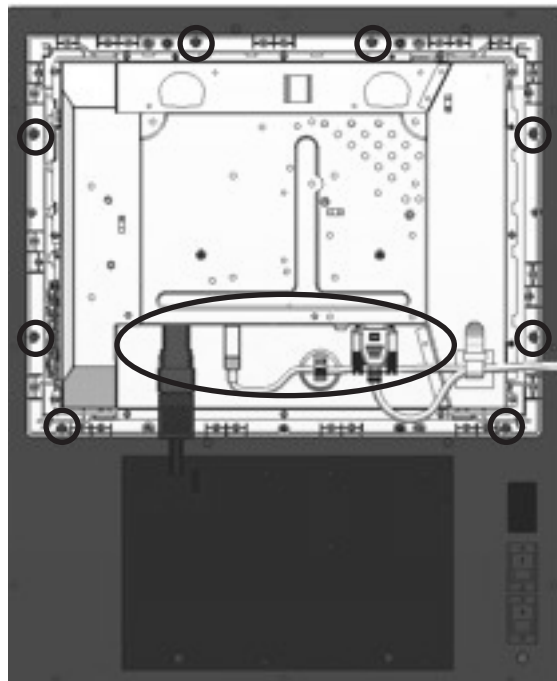
VOYAGER III TOUCHSCREEN REPLACEMENT

12. Loosen thumb screws on the DB-15 video connector at the bottom of the touchscreen and unplug the cable.
13. Unplug the power cord and the USB cable from the bottom side of the touchscreen.
14. Use the socket wrench to remove the 8 nuts from around the perimeter of the touchscreen.



Install the new touchscreen

15. Lift out the old touchscreen and position the new touchscreen in its place.
16. Secure the new touchscreen around the perimeter with the 8 standoffs from the kit.
17. Plug in the power cord, the DB-15 video cable, and the USB cable into the new touchscreen. Tighten the thumbscrews on the video cable.



Replace the sub-chassis

1. Remount sub-chassis in the enclosure and refasten the 6 screws that hold it place.
2. Refasten the 2 nuts at the bottom of the sub-chassis and reattach the green ground wire.
3. Remount the motherboard in the sub-chassis and refasten the 6 screws that attach it to the sub-chassis.
4. Reconnect all cables to the motherboard.
5. Reinstall the drive chassis and fasten the 5 thumbscrews.
6. Replace the card slot bracket and fasten the 4 thumbscrews.
7. Replace the wall brace and fasten the screw.
8. Close the rear door and replace the 12 perimeter screws.

Calibrate the touchscreen

1. Connect the electrical power for the Voyager III and power it on.
2. Connect the USB keyboard.
3. After the Phoenix software launches, select **Setup > Diagnostics > System Diagnostics**.
4. Follow the prompts on the screen to calibrate the touchscreen. When you touch the targets on the screen, be as precise as possible.
5. After the calibration process is complete, touch a few buttons on the screen. If the results are not satisfactory, repeat the calibration process.
6. Disconnect the keyboard from the CNC.

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