DCP-2000

DIGITAL CINEMA SERVER

Dolphin DCI v1.0 to Dolphin DCI v1.2 for SE7221 Motherboard based units Upgrade Procedure

Version 1.3

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1 Introduction

1.1 Purpose

This document presents the procedure to upgrade a Dolphin DCI v1.0 board (not molded) to a Dolphin DCI v1.2 board (molded) in a DCP-2000 unit based on motherboard Intel SE7221 BK1-E. The procedure also includes the upgrade of the Analog Audio Card upgrade, the USB Hub installation and enables the second USB port on front panel where applicable.

The document is presented and must be followed as a step-by-step procedure.

1.2 Procedure Applicability

The procedure presented in this document **applies ONLY** to DCP-2000 units with to the following configurations:

1.2.1 Case 1: DCP-2000 chassis 315 (Black, Metal Front Panel, 3RU)

(Doremi Kit P/N: DCP2K-DCIV1.2-KIT-100-2)

- Intel SE7221 Motherboard
- Thermal Solution
- Dolphin-B or Dolphin DCI v1.0 not molded
- With or without Analog Audio Card

1.2.2 Case 2: DCP-2000 chassis 316 (Silver, Plastic Front Panel, 3RU)

(Doremi Kit P/N: DCP2K-DCIV1.2-KIT-100-3)

- Intel SE7221 Motherboard
- Dolphin-B or Dolphin DCI v1.0 not molded
- With or without Analog Audio Card

To identify each element of applicability, see below:

- Motherboard: SE7221BK1-E (Intel) - this motherboard usage is flagged In Diagnostic Tools under System Tab as : “Base board: SE7221”.

  Another way to identify this motherboard is using the Rev# of the unit: The letter B in first position of Rev# indicates SE7221 Motherboard. At the end of the procedure, this letter remains the same, as no change is applied to the Motherboard..

- Dolphin card(HD-SDI card):

  a) Dolphin DCI: On the rear panel of the unit you have two BNC connectors (marked HD-SDI OUT-A and OUT-B), on the same bracket with the GPIO connector (marked GPIO; DVI type of connector).

  For Dolphin-DCI, in Diagnostic Tool → System Tab, the F/W is in 21.xx series.

  b) Dolphin-B: On the rear panel of the unit you have four BNC connectors (marked HD-SDI In-A, IN-B (covered with Red Caps), Out-A, Out-B) a. The GPIO is a separate module with DB25-M type of connector.

  For Dolphin-B, in Diagnostic Tool → System Tab, the F/W is in 12.xx series.

  This procedure applies to units that have the letter in the second position in Unit Rev# (corresponding to the Dolphin Type) as B or D. At the end of this procedure, the revision number will be “F” for the same position in the Rev#. (See Technical Bulletin 42 v 1.15 or higher)

- Thermal Solution :The unit is required to have the Thermal Solution in place prior to performing the Dolphin DCI v1.2 Upgrade procedure. See Document: Thermal Solution Upgrade Procedure to identify the elements inside your unit and decide if your unit already has thermal solution. If not, you have to perform the thermal solution upgrade first.

  Also, the letter in fifth position in Rev # is “F” for both chassis 315 and 316

- Analog Audio Card (internal): On the rear panel of the unit you its DB25-F connector marked as ANA. This card is found on the bracket that is to the left side of the Dolphin Card for units with Thermal Solution, when looking from the rear panel.

CAUTION: The procedure presented in this document must ONLY be performed by a qualified technician, that is **properly grounded in accordance to the ESD rules presented in ISO 9001 (2000)**.

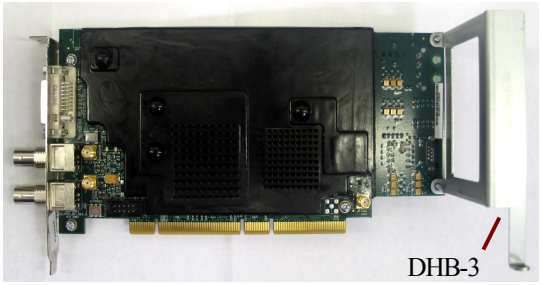
2 Upgrade Kit Description

Doremi Kit P/N: **DCP2K-DCIV1.2-KIT-100**

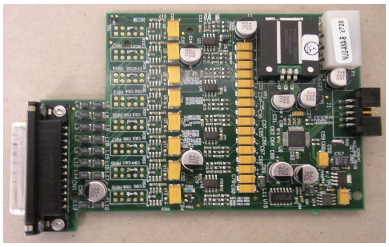
Applies to: **DCP-2000 / DCP-2K4 with Dolphin-B or Dolphin DCI v1.0 (not molded)**

Note: The check marks below are for Chassis 315, **Doremi Kit P/N: DCP2K-DCIV1.2-KIT-100-2 .**

Ck	N/A	
		The kit provided by Doremi contains the parts presented below. The check marks select the parts that apply for the different DCP configuration, as presented in this document.
1. ☑	☐	Dolphin DCI v1.2 card (Molded);
		Doremi P/N: DOLPHIN_DCI_1.2-F
2. ☑	☐	Dolphin_DCI_v1.2 Holding Bracket DHB-3for SE7221MB,
		Doremi P/N: MTL-BR-DHB-3; Mfg P/N: AKI316-22200
3. ☐	☑	Dolphin_DCI_v1.2 Holding Bracket DHB-4 (Assy) for X7SBE MB,
		Doremi P/N: MTL-BR-DHB-4, consisting of:
		3a) Dolphin Holding Bracket DHB-4 (Mfg P/N: AKI316-21900)
		3b) *Stand-off and M3screw for Dolphin Bracket DHB-4*



4. ☑ ☐ Analog Audio Card for Audio Cfg Rev B (90° J1 Connector) *Doremi P/N: NUG-ANA-B-90*



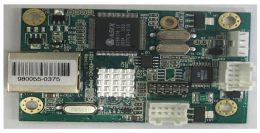
5. ☑ ☐ Tie-wraps – 5 pcs. *Doremi P/N: TIE-CBL-8IN*

Ck	N/A
☐	

6. ☑ ☐ USB hub card: 1 pc. *Doremi P/N: DCP-USBHUB-11*

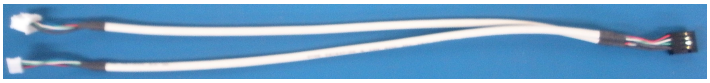
7. ☑ ☐ USB hub mounting plate: 1 pc. *Doremi P/N: MTL-BR-UHUB*

8. ☑ ☐ M3x5mm screws wl lock-washer: 7pcs. *Doremi P/N: M3x5MM-LW*



9. ☑ ☐ Cable 1: Power split cable ("Y" cable) – 1pc *Doremi P/N: CBL-Y-ATX-POWER*

10. ☑ ☐ Cable 2: USB split cable DCP-315-SE – 1pc *Doremi P/N: CBL-UHUB-INTEL-11A*



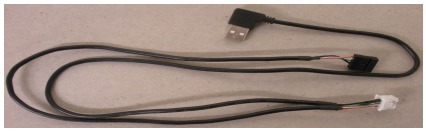
11. ☑ ☐ Cable 3: USB front to hub cable DCP-315-SE– 1pc *Doremi P/N: CBL-UHUB-INTEL-11B*

12. ☑ ☐ Cable 4: Ethernet cable, 1ft long - 1 pc *Doremi P/N: CBL-ENET-12IN*

13. ☐ ☑ Cable 5: USB Hub to SE-MB for Chassis 316 - cable – 1pc
Doremi P/N: CBL-DCP316-UHUB-SE-17IN

14. ☐ ☑ Cable 6: USB HUB to Touch Screen 8 inch cable DCP-316-SE – 1pcs
Doremi P/N: CBL-DCP316-UHUB-TS-8IN

15. ☐ ☑ Cable 7: USB split cable – 1pcs *Doremi P/N: CBL-UHUB-SM-11*



3 Required Tools

To perform the procedure detailed in this document, you need the following tools:

- **Screwdriver**

One Phillips tip screwdriver is required:

- **Cutter-pliers**

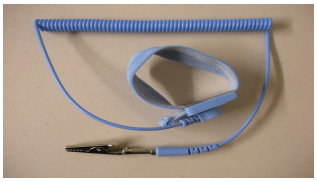
A pair of cutter-pliers is required for tie-wraps management:

- **Nutdriver (5mm)**

A 5mm nutdriver is needed to handle the stand-offs.

- **ESD Equipments**

The standard ESD equipments (grounding mat, wrist grounding straps) shall be used when performing the upgrade presented in this document. The grounding equipment must be connected to the ground.



4 Software Preparation

ATTENTION! At the end of this Dolphin Upgrade procedure, the DCP-2000 unit will have a new Certificate. As a result, your existing KDMs and Licenses will no longer be valid.

You need to notify YOUR KDM PROVIDERS ABOUT THE NEW CERTIFICATE before you start the upgrade, in order to be able to play your encrypted material at the end of this procedure.

Your existing Licenses will no longer be valid, therefore you will need to download the new licenses from Doremi Cinema FTP website before you start the procedure.

The old licenses will be marked in Red as “Expired” in License manager. You have to remove them manually using the License Manager GUI and ingest the new ones.

See “Annex 1” at the end of this document in order to be able to log in to Doremi Cinema ftp website.

This operation is required to complete the hardware upgrade:

1. Prepare a USB stick with the required DCP software which is 1.2.0-0 or higher. This software can be downloaded from Doremi FTP website from”**/dcp2000/Software**” folder.

   The software file name is: e.g. “dcp2000_patch_1.2.0-0.pkg”

– Plug the USB stick into one of the USB ports of the DCP-2000. The Ingest GUI will appear.

– Select the software package (e.g. “dcp2000_patch_1.2.0-0.pkg”) and click on “Ingest” button. When done, it will prompt you to reboot. Click OK.

– Reboot the unit by going to **Menu** → **Logout.** Click on **Reboot.**

– After reboot, go to **Menu** → **About** and check that the software version is the one you just installed and verify that the displayed Serial Number matches the one printed on the rear panel,

– Check that the unit is still functional with the current hardware by playing a short CPL: Go to **Menu** → **Doremi Labs Inc.** → **CineLister**, make a play list with one CPL and play it.

– Turn off the unit by going to **Menu** → **Logout** → **Shutdown**.

– The unit is now ready for the hardware upgrade.

Note: It is strongly recommended that the software preparation to be done before the hardware upgrade. If the software preparation is not done prior to Dolphin-DCI v1 2 hardware upgrade, the Dolphin DCI v1.2 Card will not be seen by the Operating System at the end of the Dolphin upgrade.

It is still OK to perform the software preparation afterward, to have the unit fully functional.

5 Certificate Update

After the new molded Dolphin DCI v1.2 board will be installed, for back-up reasons, the unit needs to reflect the new certificates. For that, the old certificate files need to be deleted from **/doremi/etc/certs/mine/** folder. To do that, open a terminal window, log in as superuser and type:

Type: *rm -rf /doremi/etc/certs/mine/**

Now, the new certificate files need to be copied into the same location from above, as explained below:

First we will download the .pkg file that contains the certificate files of the Dolphin DCI v1.2 provided.

Browse the ftp website to: "/dcp2000/Certificates/UpdateCerts" folder, locate the folder with the range where your unit's serial number is, click on it and copy the following ".pkg" file on your USB thumbdrive: "dcp2000-update-cert-2xxxxx-yy.pkg".

(where 2xxxxx is the serial number of the unit, and yy is the new/latest certificate extension).

Caution: Make sure you download the file that matches with your unit's serial number, or else your KDMs will not be valid, therefore the encrypted content will not play.

Plug the USB thumbdrive (that now has the required file) into the DCP. The ingest GUI will pop-up.

Select the file above, click the "Ingest", press OK and then Reboot the unit. This set of operations will copy the following certificate files on your DCP, in **/doremi/etc/certs/mine/** folder.

1. "dcp2000-2xxxx-yy.cert.sha256.pem" and
2. "dcp2000-2xxxxx-yy.cert.system.pem"

Note: The new certificates have the same first 6 digits as the old certificates, while they have a different extension (e.g. "205539-01" instead of "205539").

6 Hardware Upgrade

6.1 Unit Preparation

> **CAUTION**: Collect all removed screws, as you will have to re-use them when putting back the concerned components at a later procedure stage.

The DCP-2000 unit must be removed from its operating location and put on a clean antistatic table:

1. Power off the unit. Go to "**Menu → Logout...**" and select "**Shutdown**".
2. Unplug the two power cables. (Note: The unit has dual redundant power supply)
3. Disconnect all other cables from the rear panel of DCP. You might want to put labels to easily identify which cable goes where, to facilitate re-installation at the end of the procedure.
4. Remove the DCP-2000 unit from its rack and place it on a desk where you have room to perform the procedure, while being grounded according to ESD rules.
5. Remove the lid by removing the six screws holding the lid (two on each side and two on the rear panel of the chassis) using the Phillips tip screwdriver.
6. Slide the lid from the front side to the rear side of the DCP-2000 unit and lift it in order to remove it from the chassis, as shown in Figure 1:

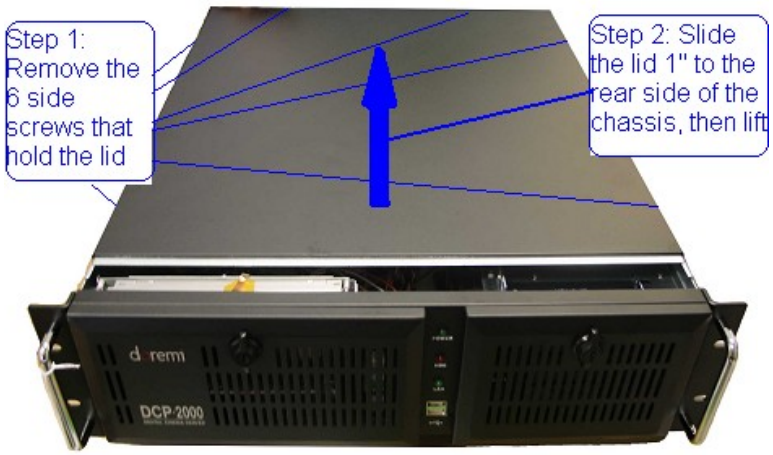


Figure 1: DCP-2000 - Lid Removal

6.2 *Analog Audio Card Upgrade:* for DCP-2000 with internal Analog Audio Cards only

The kit will include the Analog Audio Card if your unit configuration shows that the unit was sold with this option, and the Rev # shows an A in the seventh position (right after the first dash).

This procedure replaces the internal Analog Audio Card that have the vertical IDE 10 connector (Ref J1) with an Analog Audio Card with 90 degrees J1 connector, that will allow proper routing of Audio cable and proper spacing between the Analog Audio Card and new molded Dolphin Card.

The procedure needs to be done prior to Dolphin DCI v1.2 upgrade.

Follow the steps below:

1. Disconnect the IDE 10 signal ribbon cable from the Analog Card and keep it on the side.
2. Disconnect the Analog Audio Power cable (Molex).
3. Using the 5mm Nut-driver, unscrew the 2 hex-head screws that hold the Analog Audio card in place on its bracket, while holding the card with one hand.
4. Gently remove the card off the unit.
5. Align the new Analog Audio card (provided) in the same location/slot. While holding it with one hand, install the same screws that were holding the previous card in place. Do not overtighten.
6. Plug the Analog Audio Power cable (Molex) into the new card power connector.
7. Plug the IDE 10 signal ribbon cable from the Analog Card and route it on outside of the space between the Dolphin DCI v1.2 and the Analog card. Use one cable tie to maintain it in place.

6.3 *Dolphin DCI v1.2 Upgrade Procedure*

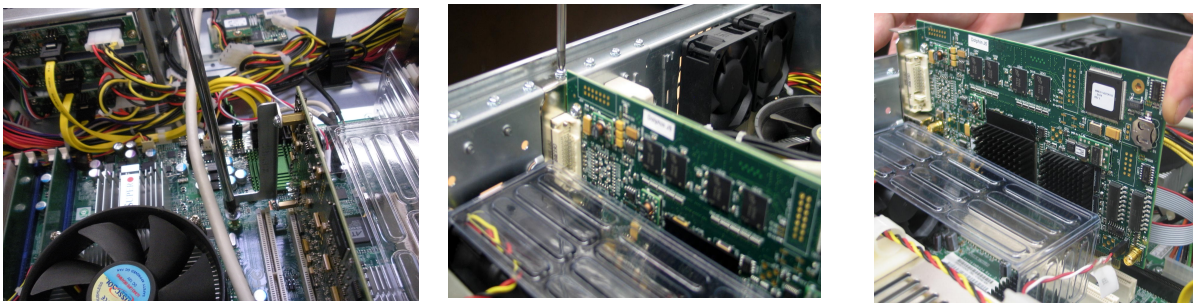
To replace the Dolphin DCI v1.0 card with the Dolphin DCI v1.2 card, follow the steps presented below:

1. Remove the Dolphin DCI card from its original slot according to the steps below:
   a. Unscrew the 6/32 or M3 screw of the Dolphin DCI v1.0 holding bracket from the motherboard– see Figure 2 (a) below. You will have to put this screw back, to continue to hold the motherboard after removing the old Dolphin card.

   Note: Some units might not have this metal bracket.

   b. Unscrew the M3 screw located on the top of the Dolphin DCI v1.0 card bracket – see Figure 2 (b) below.

   c. Lift the Dolphin card out of its motherboard slot by gently pulling a bit on one side, then pulling a bit on the other side and by gently repeating this operation until the card is completely out - see Figure 2 (c) below:



(a) (b) (c)

Figure 2: (a,b) Bracket Screws Removal – (c) Dolphin DCI Card Removal

d. Unplug the AES connector (Dolphin DCI connector J6) and the reset (Dolphin DCI connector J19) cables from the Dolphin DCI card – see Figure 3 below:

CAUTION: Keep the other end of the Reset cable plugged into the motherboard.

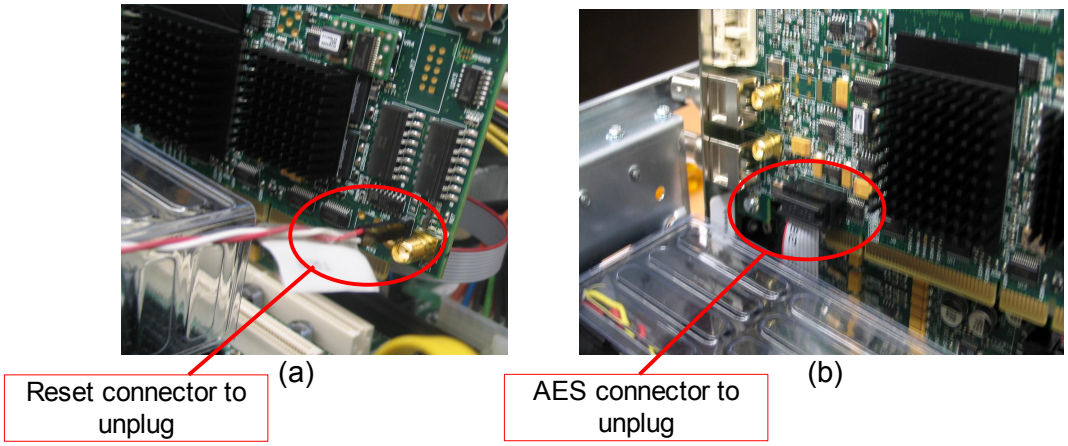


Figure 3: (a) Reset Cable – (b) AES Connector

e. **Protect the Dolphin DCI card** by putting it in the antistatic bag that held the Dolphin DCI v1.2 card provided in the kit and place it in a clear area where it does not risk to be damaged as it will have to be shipped back to Doremi as presented at the end of this document.

2. Remove the screw located in the corner of the motherboard, close to the connector J1J1, as presented below:

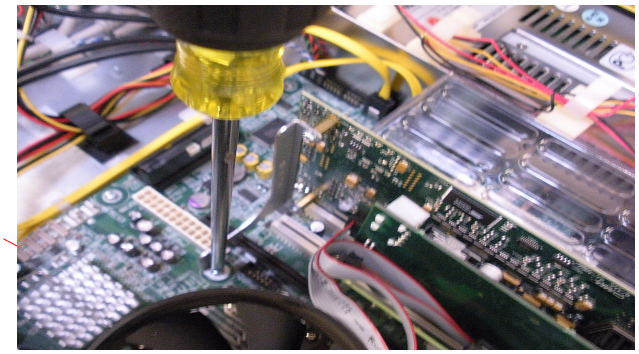
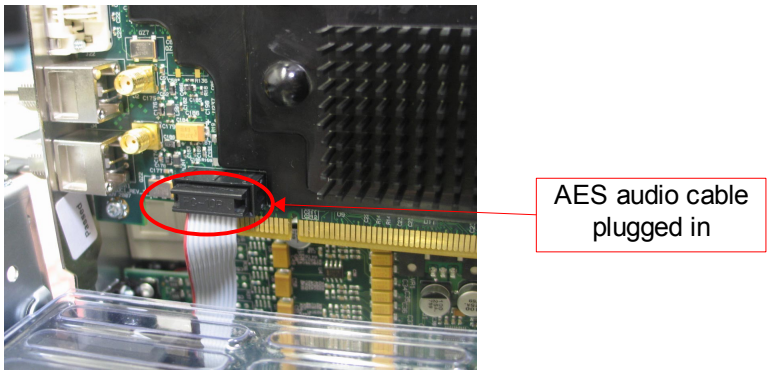


Figure 4: Screw to Remove

3. Plug the Ribbon AES audio cable into the Dolphin DCI v1.2 card connector J6 BEFORE inserting the Dolphin DCI v1.2 card into the PCI connector:



4. Plug the Reset cable into Dolphin DCI v1.2 Host Reset Jumper connector as presented below – red wire above the white wire:

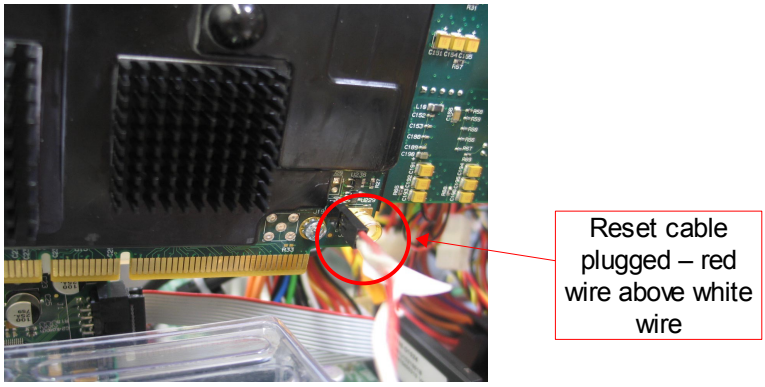


Figure 6: Dolphin DCI V1.2 Reset Cable Plugged

5. Insert the Dolphin DCI v1.2 card into the PCI-X slot by gently pushing one side a bit, then the other side and repeat it until insertion is completed, while making sure the AES cable is cleared out of the way of the PCI-X connector and that it does not go into the fan's blades – push gently on the Dolphin DCI card to complete its insertion into the PCI-X slot:

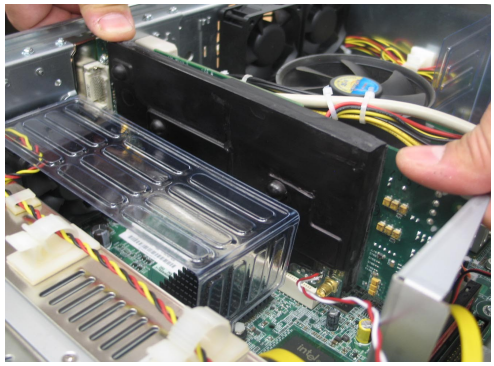


Figure 7: Dolphin DCI V1.2 Card Plugging

CAUTION: Visually verify that the Dolphin DCI v1.2 is fully inserted into its PCI-X slot (the golden finger of the PCI connector should not be visible) and that the auxiliary bracket does not catch and/or stress any cable.

6. Attach the Dolphin DCI v1.2 card bracket to the DCP-2000 rear panel using the previously removed screw:

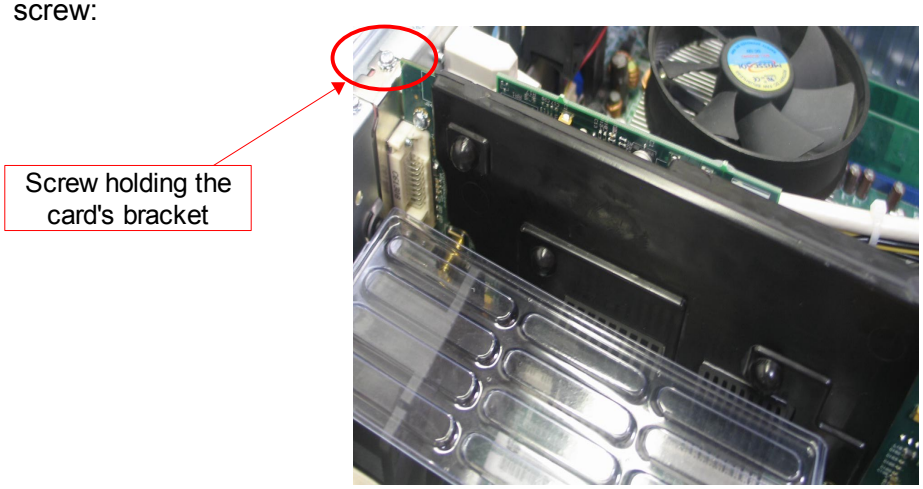


Figure 8: Dolphin DCI V1.2 Card Installed

7. Attach the Dolphin DCI v1.2 card mounting bracket to the motherboard by putting back the screw located beside the J1J1 as presented below:

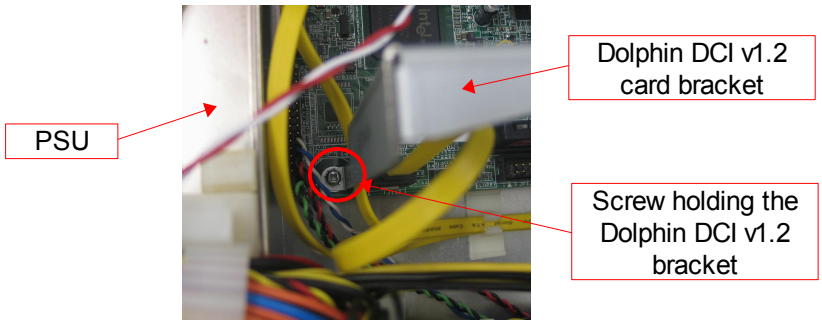


Figure 9: Dolphin DCI V1.2 Card Bracket Attached to the Motherboard

8. Verify that the other end of the Reset cable is still plugged into the motherboard RESET connector flagged with "RST" - Motherboard connector J1J1, pins #15 and #17 (red wire on the pin #15 toward the front panel and white wire on the pin #17):

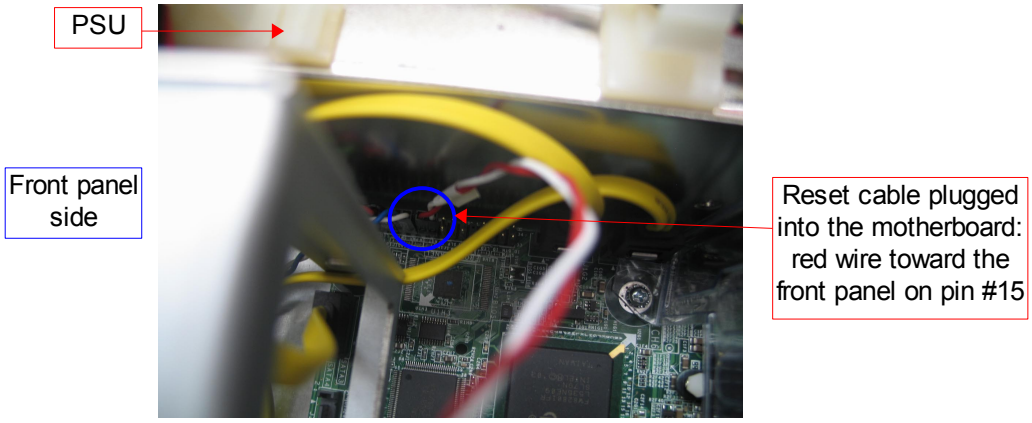


Figure 10: Dolphin DCI V1.2 Card Reset Cable Plugged

9. Verify that the Reset cable is looped inside the mounting clip located above the PSU as presented below:

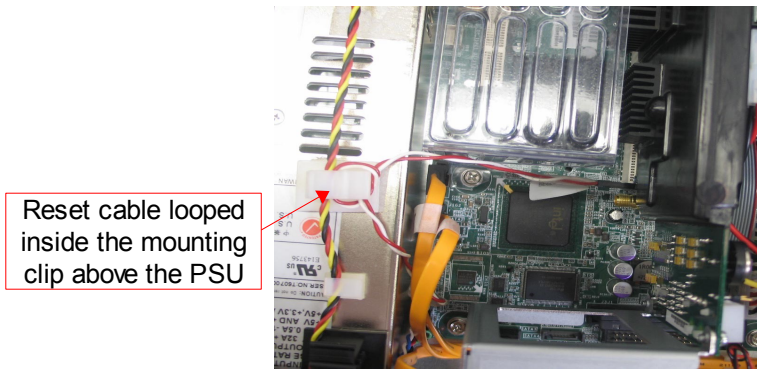


Figure 11: Dolphin DCI V1.2 Card Reset Cable Routing

10. Connect the Ethernet cable on the Ethernet port of the Dolphin DCI v1.2 card and route it without stressing the cable: loop it once and plug the other end to the Ethernet connector of the Hub card as presented below:

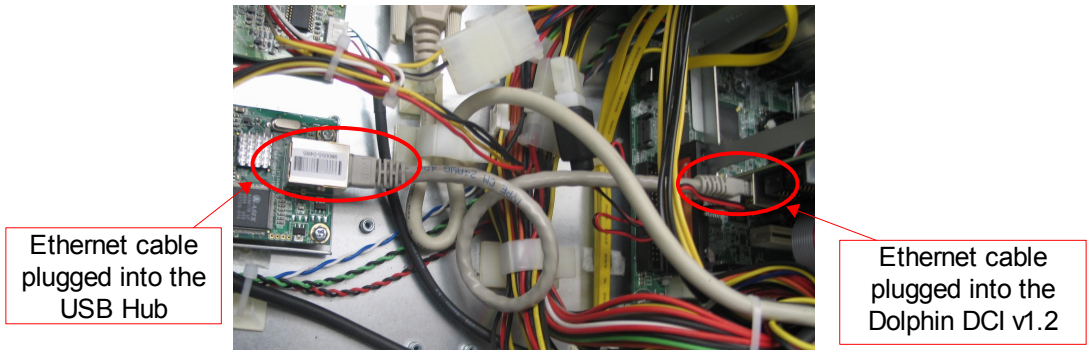


Figure 12: Ethernet Cable Routed

Note: If your unit does not have the USB Hub installed, GO TO chapter 5.3

11. Disconnect the LCD power cable as presented below:

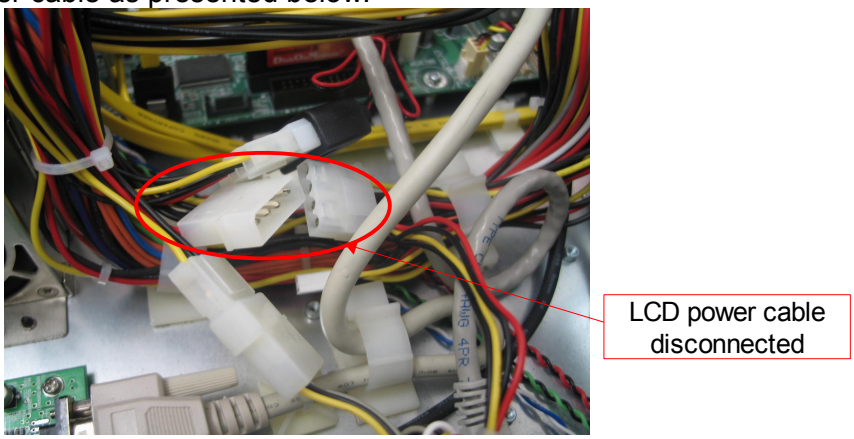


Figure 13: LCD Power Cable Disconnected

12. Interlace Cable 1 provided in the kit in order to continue supplying the Hub and to also supply also the Dolphin DCI v1.2 card (using connector P1 of the Dolphin card). Next, add two tie-wraps to attach the cables together (and cut their remaining/unused parts) as presented below:

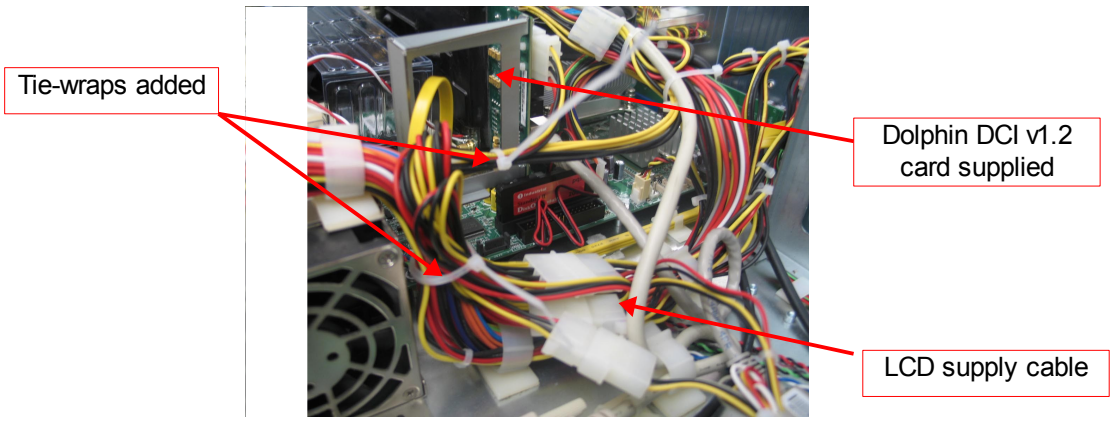


Figure 14: Cable 1 Installed

Cable 1 usage is illustrated below:

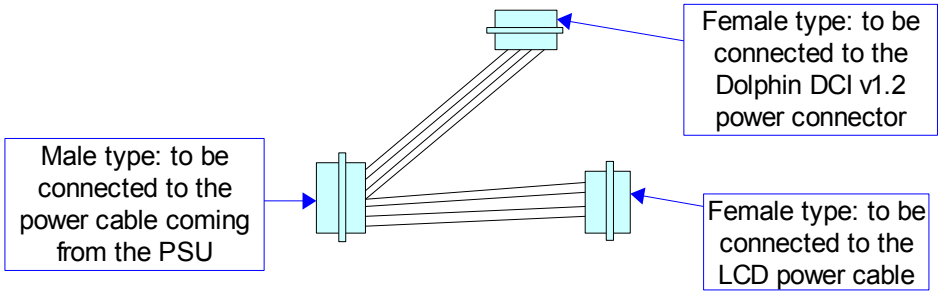


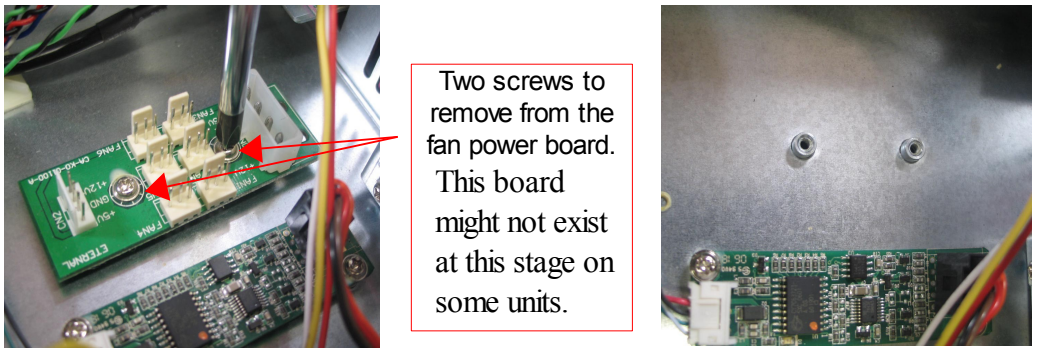
Figure 15: Cable 1 (Split power cable) Schema

6.4 USB Hub Installation

Note: If your unit already has a USB Hub installed (but not connected), please go to sub-chapter 6.5.

To install the USB Hub, proceed as follows:

1. Locate the 2 standoffs on the chassis where the USB holding bracket will be installed. To identify them easily, they are the ones that were used to attach the fan supply board. See Figure 26 to locate the spot.



(a) (b)

Figure 16: Screws Removal (a) – Power Card removed (b)

2. Install the USB hub mounting plate on top of the two stand-offs made available by the power card removal and attach it using two 3M x 5mm screws:

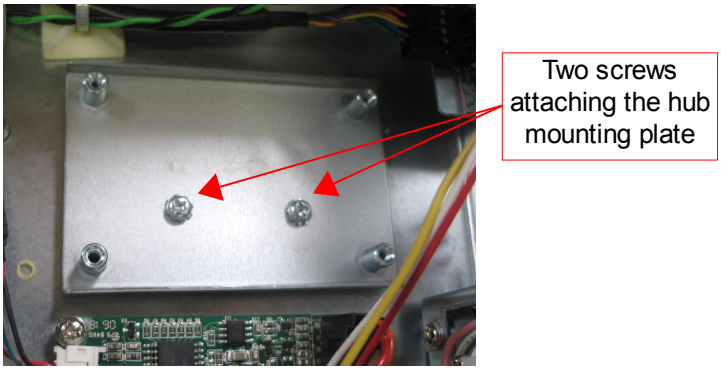


Figure 17: USB Hub Mounting Plate Installed

3. Attach the USB Hub on top of the hub mounting plate using four 3M x 5mm screws as presented below:

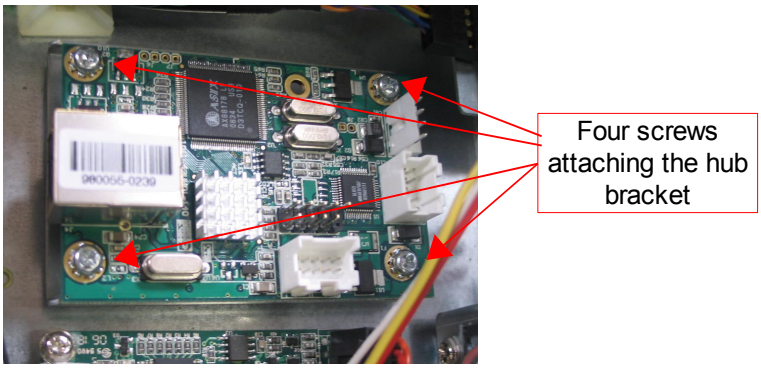


Figure 18: USB Hub Installed

4. Plug the latest power cable previously removed into connector J5 of the USB Hub

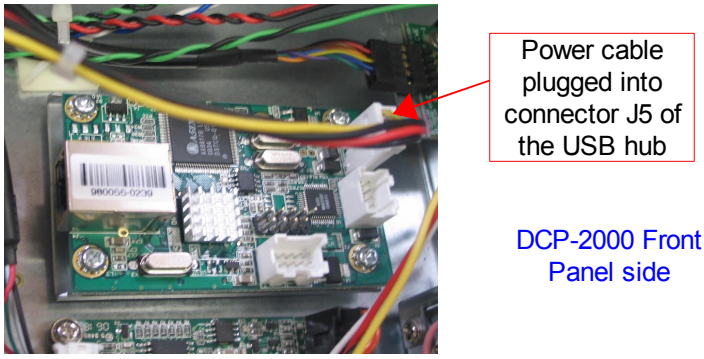


Figure 19: Power Cable Plugged into USB Hub

5. Put a small tie-wrap around the cables

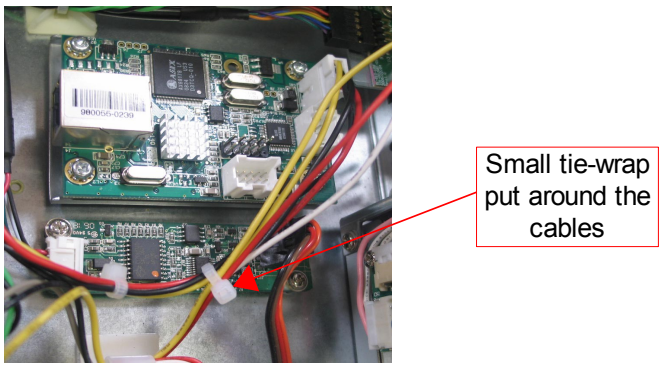


Figure 20: Tie-Wrap Around Cable

6. Add 4 large tie-wraps all around the cables all the way through the unit as presented below:

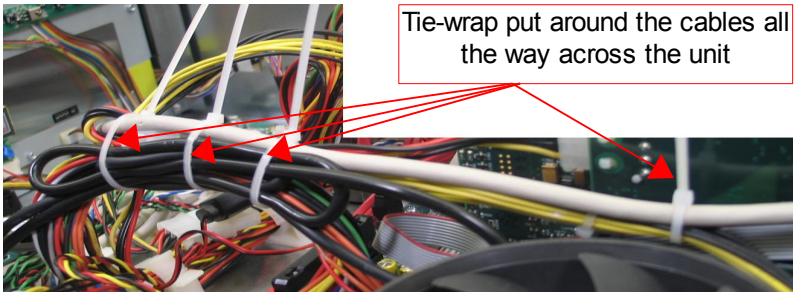


Figure 21: Tie-Wrap Around Cables

7. Cut the remaining parts of the previously added tie-wraps as presented below:

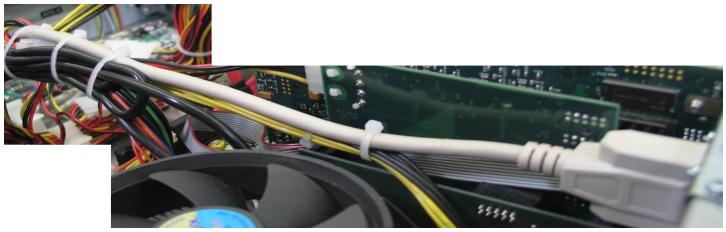


Figure 22: Tie-Wrap Adjusted

6.5 USB Hub Ports Inter-connection

6.5.1 Case 1: for Chassis 315 (Black, metal Front Panel)

This section explains how to inter-connect the 2 motherboard USB ports to the USB Hub and the touch screen interface (controller) of the LCD, and the 2 front panel USB ports. Follow the steps below:

1. Cut the two tie-wraps that hold the cables from the USB front panel port and touch screen to the motherboard connector J4F1:

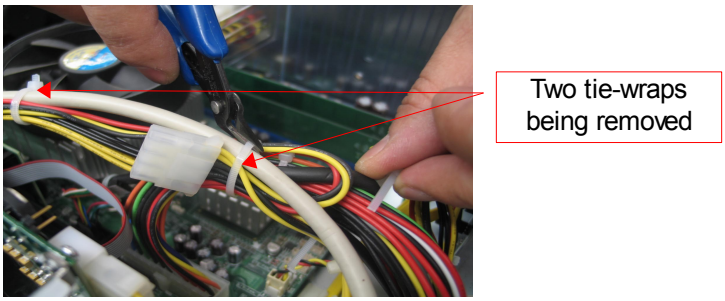


Figure 23: Tie-Wraps Removal

2. Cut the tie-wrap holding the cable to the mounting base close to the hub as presented below:

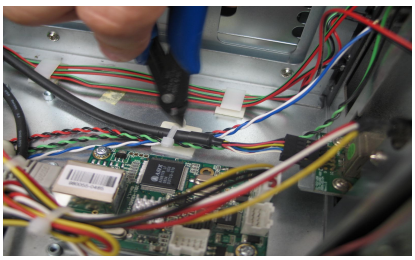


Figure 24: Third Tie-Wrap Removal

3. Remove the USB cable from the front panel by pulling it:

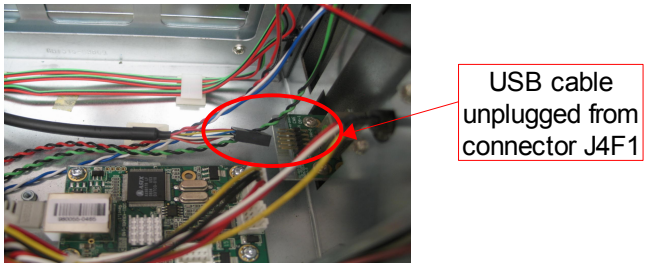


Figure 25: USB Cable Unplugged

4. Remove the touch screen interface USB cable from its connector by pulling it gently:

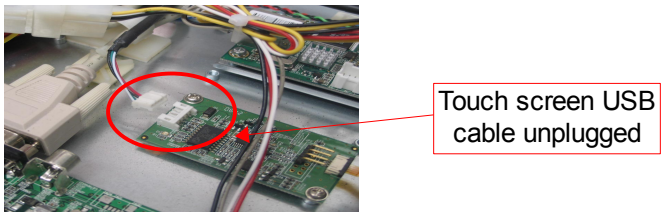


Figure 26: Touch Screen USB Cable Unplugged

5. Remove the other sides of both USB cables from the motherboard J4F1 connector:

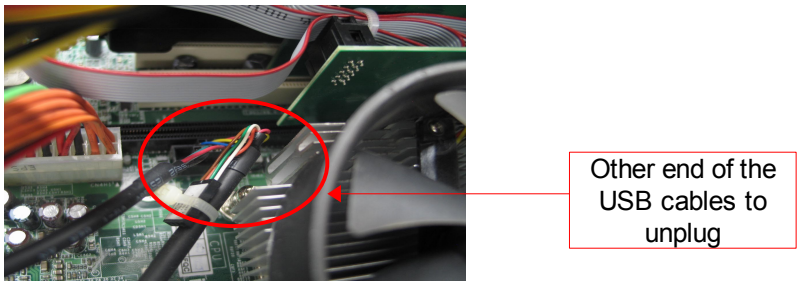


Figure 27: Other End of the USB Cables to Unplug

6. Now you can remove the previous USB cables from the unit
7. Connect the Cable 2 (“USB split cable DCP-315-SE”) provided in the kit as follows:
   a. Plug the IDE-10 black connector on motherboard J4F1 connector (make sure to respect the notch) – note that pin 9 is covered – this goes where there's no pin.

Figure 28: Cable 2: IDE-10 Black Connector – Pin 9 Covered

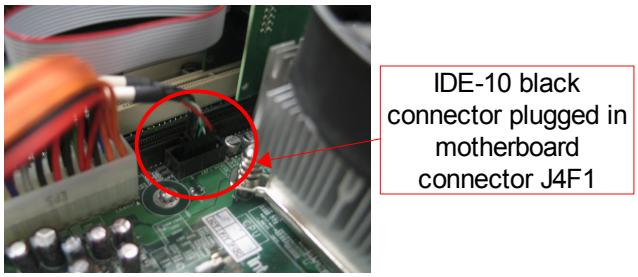


Figure 29: Cable 2: IDE-10 Black Connector Plugged

b. On the two other sides of Cable 2: plug the 10-pins connector cable into connector J1 of the Hub until it pops in, and plug the 5-pin white connector into the touch screen interface connector JP1:

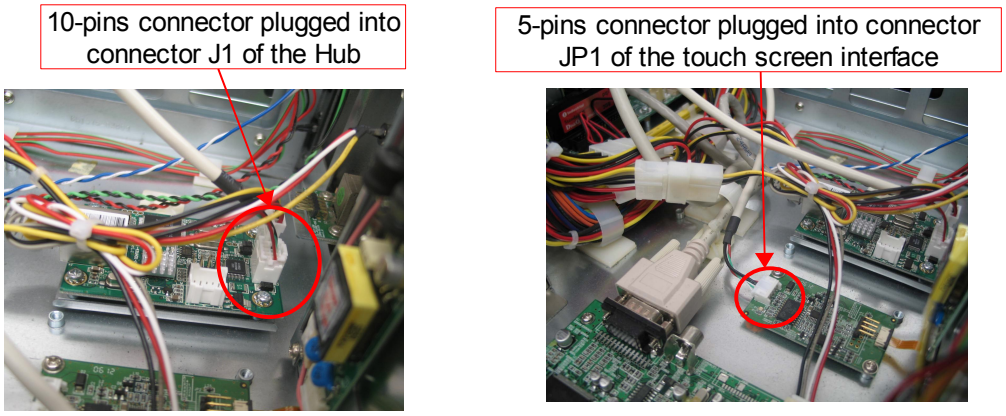


Figure 30: Other End of Cable 2 Plugged

8. Add two tie-wraps around the Cable 2 to hold them with the existing cables as presented below (do not stress the cable):

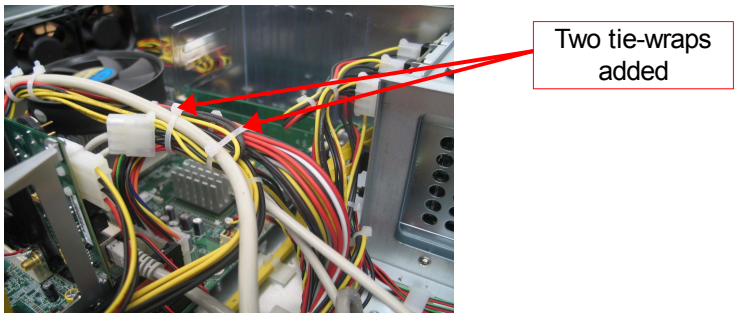


Figure 31: Two Tie-Wraps Added

9. Insert the black IDE-10 connector of the Cable 3 (“USB to Hub” cable provided in the kit) to the front panel USB connector while paying attention to the notch:

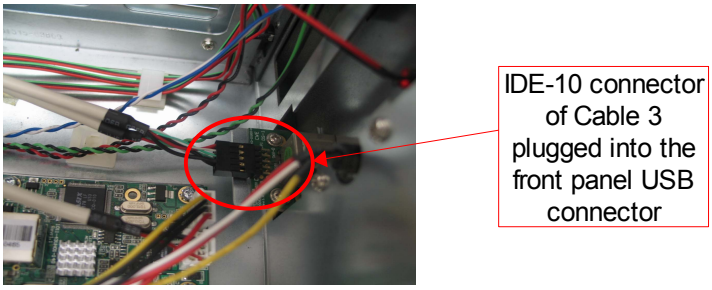


Figure 32: IDE-10 Black connector of the Cable 3 Plugged

10. Insert the 10-pin white connector side of Cable 3 from kit into hub connector J3 (until it clicks):

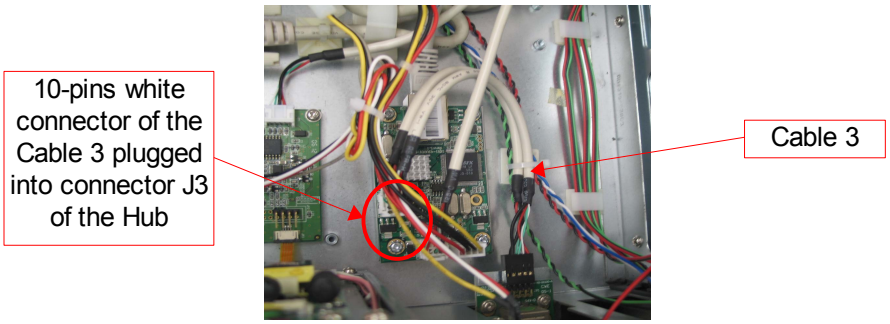


Figure 33: Cable 3 Installed

11. Add one more tie-wrap on the existing mounting base to secure all cables in place – cut the remaining/unused part of the tie-wrap with a cutter.

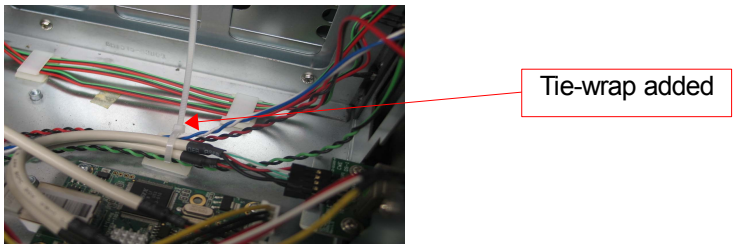


Figure 34: Tie-Wrap Added

12. Remove the front panel USB cover. The front panel USB ports are now both enabled (Figure 35).

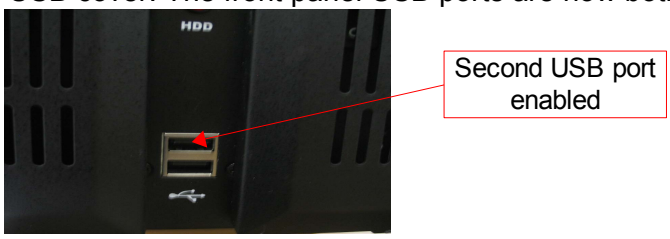


Figure 36: Front Panel USB Protection Removed

6.5.2 Case 2: for Chassis 316 (Silver, plastic Front Panel)

This section explains how to inter-connect the motherboard USB ports to the USB Hub and the touch screen controller (interface) of the LCD, and the only front panel USB port.

The kit for Chassis 316 contains the following cables differences (Cables 5 and 6 instead of 2 and 3):

10. ☐ ☑ Cable 2: USB split cable DCP-315-SE – 1pc *Doremi P/N: CBL-UHUB-INTEL-11A*

11. ☑ ☐ Cable 3: USB front to hub cable DCP-315-SE– 1pc *Doremi P/N: CBL-UHUB-INTEL-11B*

12. ☑ ☐ Cable 4: Ethernet cable, 1ft long - 1 pc *Doremi P/N: CBL-ENET-12IN*

13. ☑ ☐ Cable 5: USB Hub to SE-MB for Chassis 316 - cable – 1pc
Doremi P/N: CBL-DCP316-UHUB-SE-17IN

14. ☑ ☐ Cable 6: USB HUB to Touch Screen 8 inch cable DCP-316-SE – 1pcs
Doremi P/N: CBL-DCP316-UHUB-TS-8IN

Follow the steps below:

1. Cut the two tie-wraps that hold the cables from the USB front panel port and touch screen to the motherboard connector J4F1:

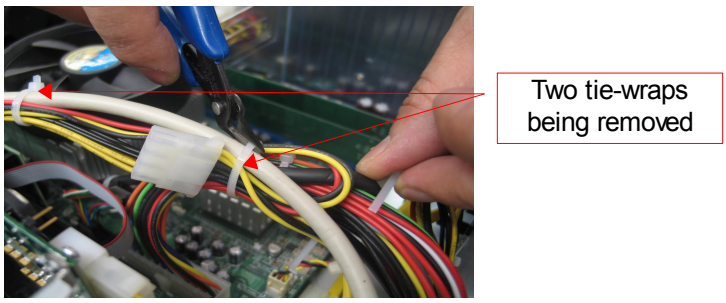


Figure 37: Tie-Wraps Removal

2. Remove the touch screen interface USB cable from its connector by gently pulling it out:

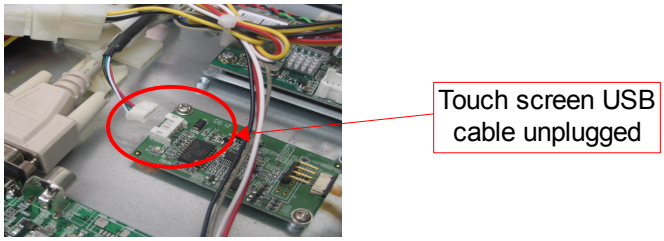


Figure 38: Touch Screen USB Cable Unplugged

3. Remove the other side of the touch screen interface USB cable from the motherboard J4F1 connector. Take the cable out of the unit.

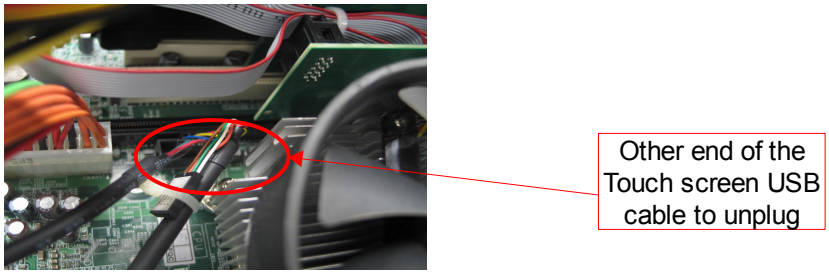


Figure 39: Other End of the USB Cables to Unplug

4. Connect the Cable 5: "USB Hub to SE-MB for Chassis 316 - cable" provided in the kit as follows:

   a. Plug the IDE-5 black connector of Cable 5 to motherboard J4F1 connector that was just freed. (make sure to respect the same orientation) – the ground wire (black) goes towards front panel.

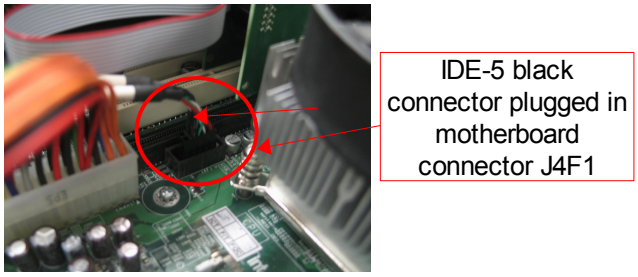


Figure 40: Cable 2: IDE-5 Black Connector Plugged

   b. Plug the 10-pins white connector of Cable 5 into connector J1 of the Hub until it locks/pops in.

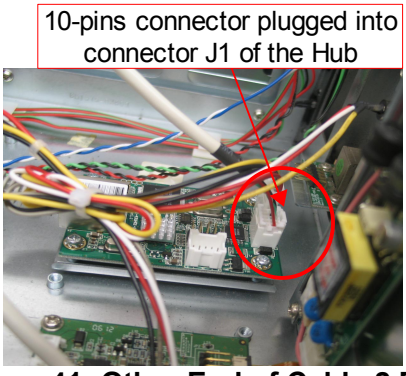


Figure 41: Other End of Cable 2 Plugged

   c. Add two tie-wraps around the Cable 5 to hold it with the existing cables as presented below:

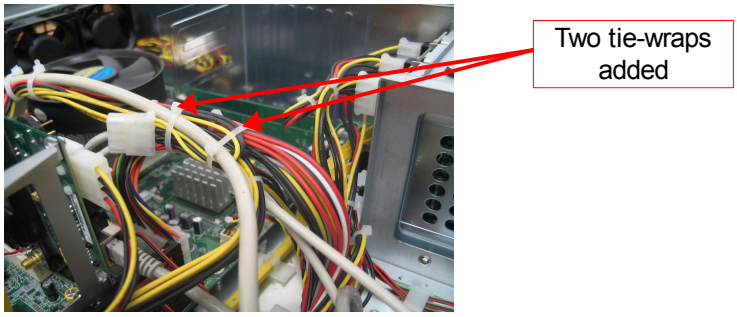


Figure 42: Two Tie-Wraps Added

5. Cable 6: plug the 10-pins white connector into connector J2 of the USB Hub until it locks / pops in and plug the 5-pin white connector into the touch screen interface connector JP1::.

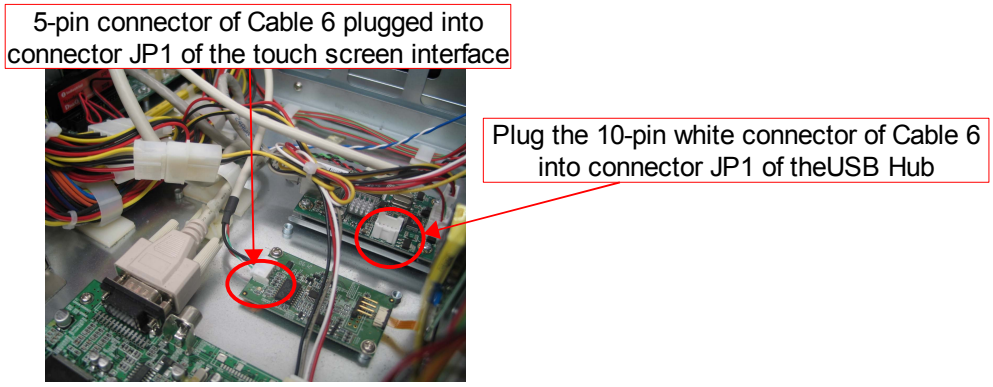


Figure 43: How to plug Cable 6

6. Add one more tie-wrap on the existing mounting base to secure all cables in place – cut the remaining/unused part of the tie-wrap with the cutter-pliers.

7 Lid Closing

When the previous upgrade steps are completed, the DCP-2000 lid can be closed by sliding it from the rear panel to the front side – Make sure there are no wires caught by the lid.

Tighten the 6 black screws that were removed at the beginning of the procedure, as presented below:

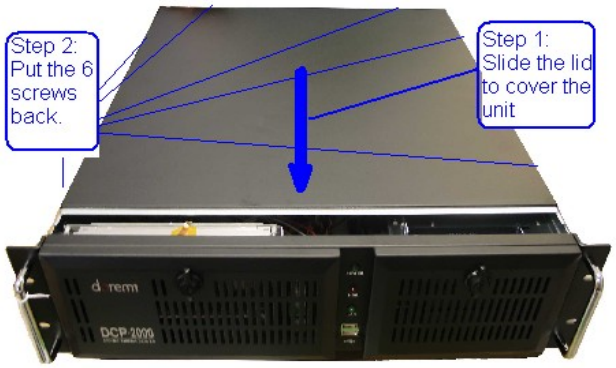


Figure 44: DCP-2000 - Lid Closing

Then the unit can be put back into its rack – if any – and connected to power.

> **CAUTION**: In case for any reason the HDD were removed from the unit, insert them back **BEFORE** plugging the power cables.

Note: Reconnect all the cables that were disconnected at the beginning of this procedure.

8 Dolphin DCI Shipment

The Dolphin DCI to Dolphin DCI v1.2 upgrade procedure is now completed.

In order to complete the RMA, the following cards are required to be shipped back to Doremi Cinema LLC, using the pre-paid shipping label and reusable kit shipping box:

- Dolphin DCI or Dolphin-B and the associated GPIO module
- Analog Audio Card (if you received one)

Make sure to protect the card(s) in the anti-static protective bag and the re-usable shipping box that initially contained the Dolphin DCI v1.2 card provided in the kit, at the following address:

Doremi Cinema LLC
1020 Chestnut Street
Burbank, CA 91506
USA

9 ANNEX 1: DOREMI CINEMA FTP WEBSITE LOG INFO

To download specific files that you need from the Doremi FTP site, you must use a real FTP client such as WinSCP, FileZilla, or CoreFTP.

Use the below login information:

Host name: ftp.doremicinema.com

User name: service

Password: t3chn1c1an

File Protocol: FTP

Port Number: 21

When connected, you find yourself into the root directory. For DCP product files you have to browse the dcp2000 folder.

Please contact (24/7) our Doremi Cinema Technical Support department if you have any questions or you need assistance:

Phone#: 1-866-484-4004

e-mail: support@doremicinema.com

10 Document Revision History

Date	Version	Description
05/04/2009	1.0	First version
07/16/2009	1.2	Certificate update section added
02/08/2010	1.3	Entire document revised and restructured.