K2 Media Client
Field Kit Upgrade Instructions

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World Wide Web: http://www.thomsongrassvalley.com/support/
Technical Support E-mail Address: gvgtechsupport@thomson.net.

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About this document

Use these installation instructions to upgrade your K2 Media Client. Refer to the section in this document that applies to the upgrade kit that you received.

Safety Summaries

⚠ ***WARNING: In order to avoid personal injury and prevent damage to this product and its peripheral products, be sure to review all safety and ESD precautions listed in the K2 Media Client System Guide.***

Installing a mezzanine board upgrade

This section provides instructions for the following field kits.

Upgrade Nomenclature	Description
K2-HD-01-FK	Adds one decoder mezzanine board to a HD-00 K2 Media Client. For a K2 Media Client model with two or three channels, this adds one playout channel.
K2-HD-10-FK	Adds one encoder mezzanine board to a HD-00 K2 Media Client. For a K2 Media Client model with two or three channels, this adds one record channel.

Tools and materials needed:

• Torx tool with T15 magnetic tip.

• Upgrade mezzanine board and four attachment screws.

⚠ ***CAUTION: This system contains board-level components that must be protected from static discharge and physical shock. Wear a wrist strap grounded through one of the system's ESD Ground jacks when handling system components.***

To install the Codec upgrade:

1. Make a record of the settings in Configuration Manager for your current channels. Because the mezzanine board upgrade process rewrites configuration files, all channel settings are reset to their default values. Therefore, at the end of the upgrade process you must reconfigure your channels.

2. Shutdown the K2 Media Client

3. Remove both power cords from power supplies.

⚠ ***CAUTION: To avoid possible damage to circuit boards and other sensitive parts, turn off the K2 Media Client and disconnect AC power before opening the top cover or removing any internal parts.***

4. Remove the top cover as illustrated:

1 **Remove screw**

2 **Pull cover toward rear 2 cm to release, then lift off**
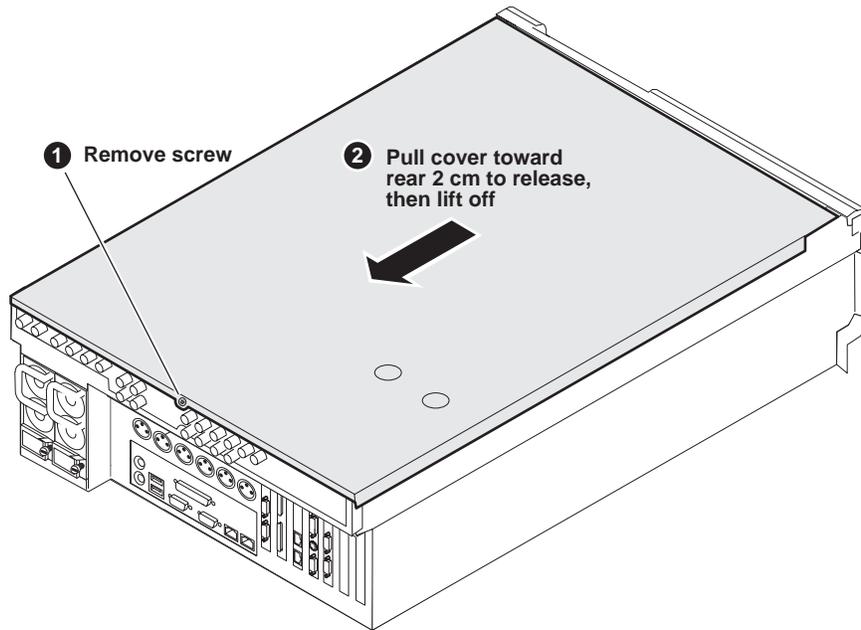
5. Remove the codec board as illustrated.

1 **Disconnect power cables**

2 **Remove six screws***

3 **Disengage from RTP board**

4 **Lift board gently from chassis, then reach under and disconnect XLR board cable**

* Do not remove any of the mezzanine board screws.
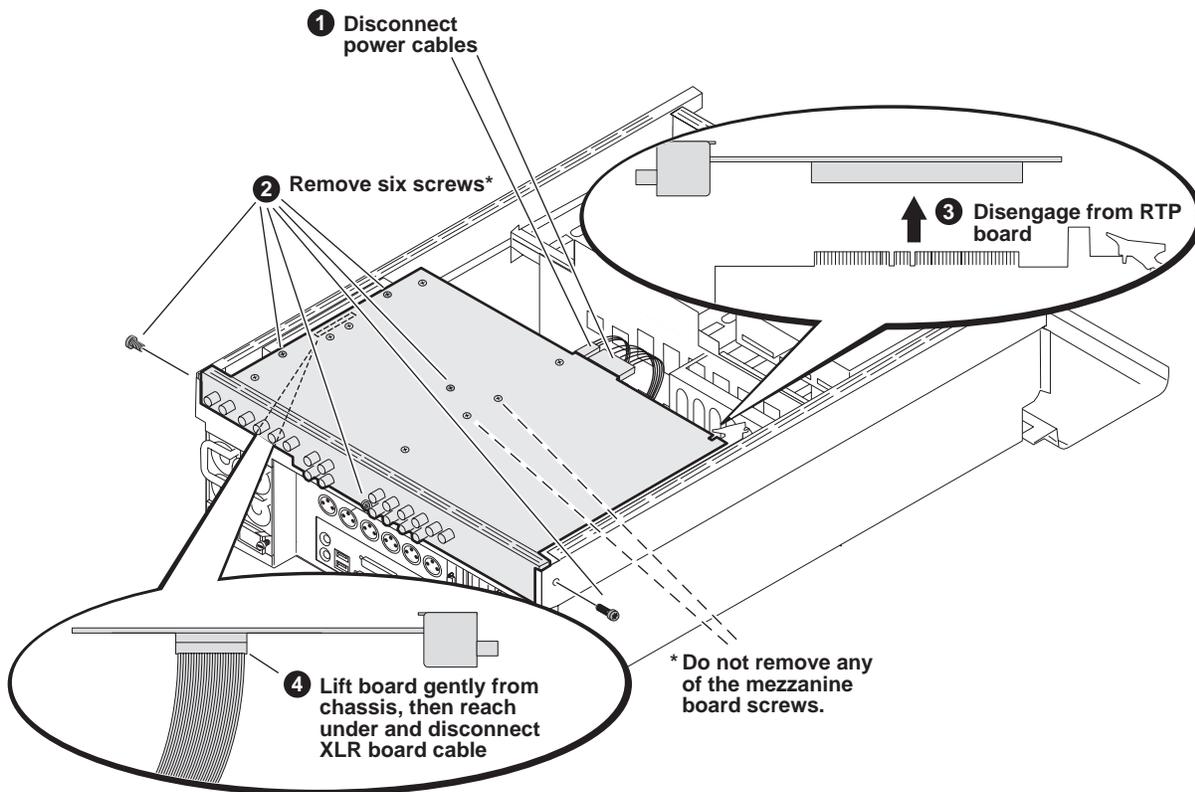
A mezzanine board is attached by four screws, which are accessed from the top side of the codec board. Do not remove these screws while removing the codec board.

6. Identify the position of a mezzanine board currently installed, as illustrated.

① Flip the codec board over so the mezzanine board is on top.

② Identify mezzanine board positions

P3/R2 position

BNC connectors

P4/R1 position
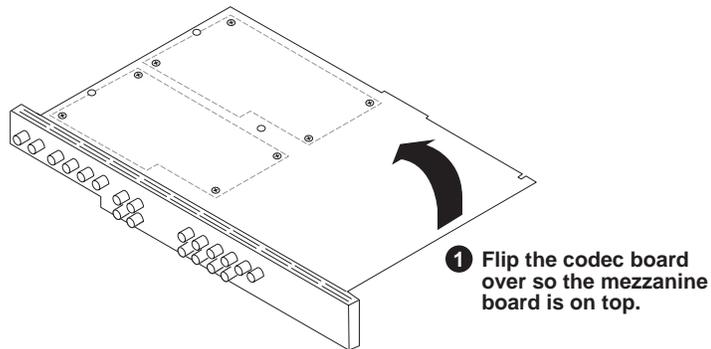
Each position could have either a decoder mezzanine board or an encoder mezzanine board, according to the current channel configuration, as follows:
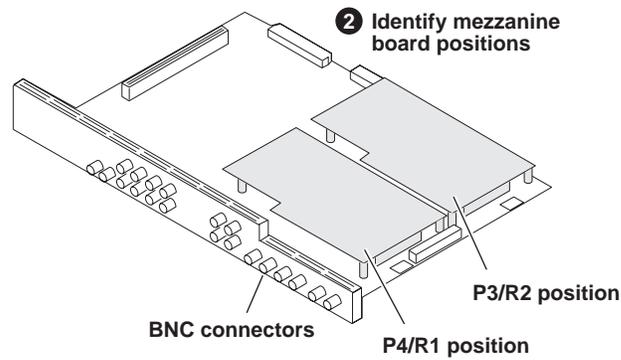
If the system has the following channels…		Mezzanine boards are positioned as follows:	
Record Channels	Play Channels	Position P3/R2	Position P4/R1
0	2	Empty	Empty
0	3	Decoder	Empty
0	4	Decoder	Decoder
1	2	Empty	Encoder
1	3	Decoder	Encoder
2	2	Encoder	Encoder

7. Verify if a currently installed mezzanine board is a decoder or an encoder. Likewise verify if the upgrade mezzanine board you are about to install is a decoder or an encoder. Refer to the following illustration:

GRASS VALLEY

HD/SD ENCODER

HD DECODER
MEZZANINE
GRASS VALLEY
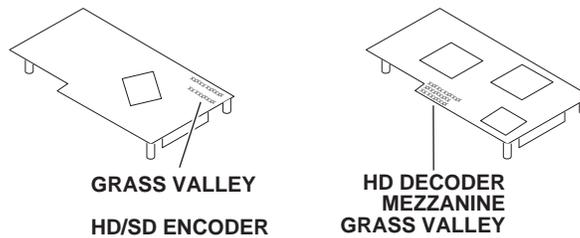
8. Make sure that you have the correct mezzanine board (decoder or encoder) for your intended upgrade. Also make sure you are installing it in the correct position. Refer to the previous steps for information on the mezzanine board positions for the current and target channel configuration. In some cases you need to remove a currently installed board to create the correct target channel configuration.

NOTE: Installing the upgrade mezzanine board in the wrong position will render the K2 Media Client inoperable.

9. Install the upgrade mezzanine board. Refer to the following illustration:

1 Engage connectors at both ends of mezzanine board.

If installing in P4/R1 position

If installing in P3/R2 position

Provide support under the codec board when seating connectors.

Make sure both connectors are fully seated.

2 Flip the codec board over

3 Install the four screws attaching the upgrade mezzanine board

Screws for P3/R2 mezzanine board

Screws for P4/R1 mezzanine board
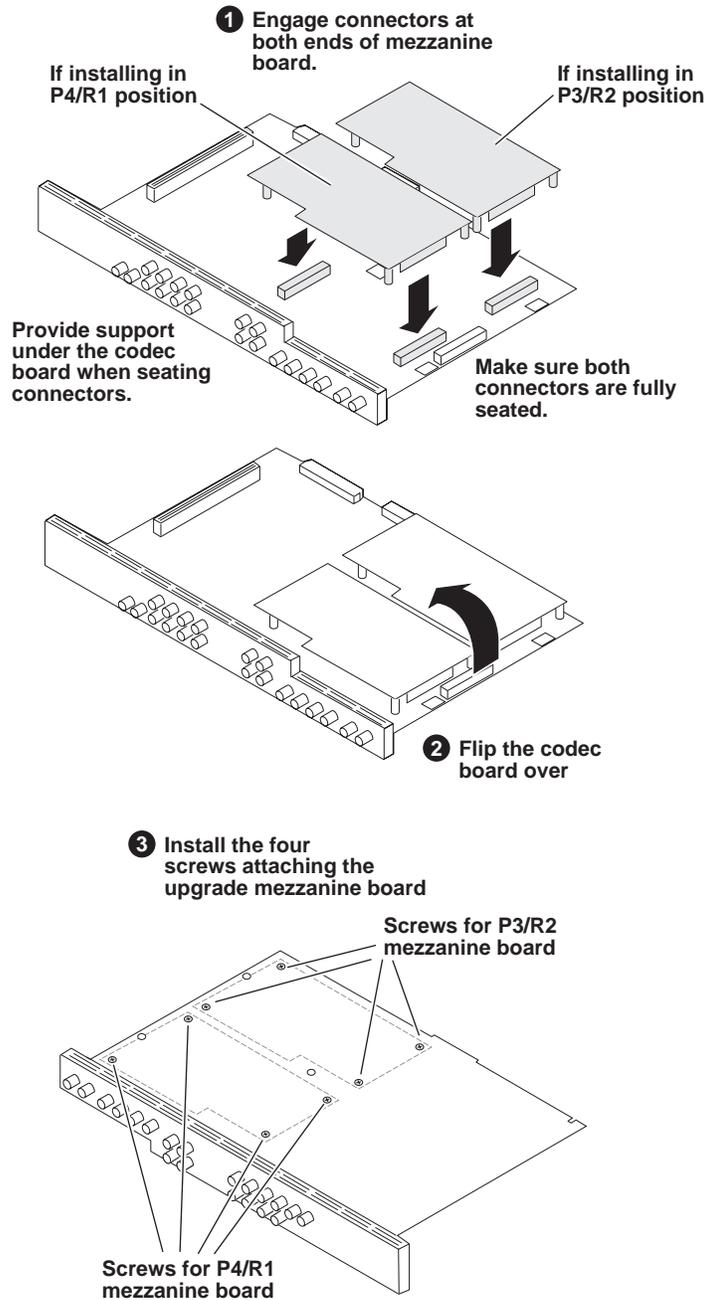
10. Replace the codec board. Make sure screws are installed in the proper sequence, as illustrated:

7 Connect large power cable

On HD/SD models, also connect small power cable

2 Carefully engage the RTP board

4 Install side screws tightly

5 Tighten center screw

6 Install side screws

3 Loosely install center screw

1 Move board into position, then reach under and connect XLR board cable

6 Install side screws
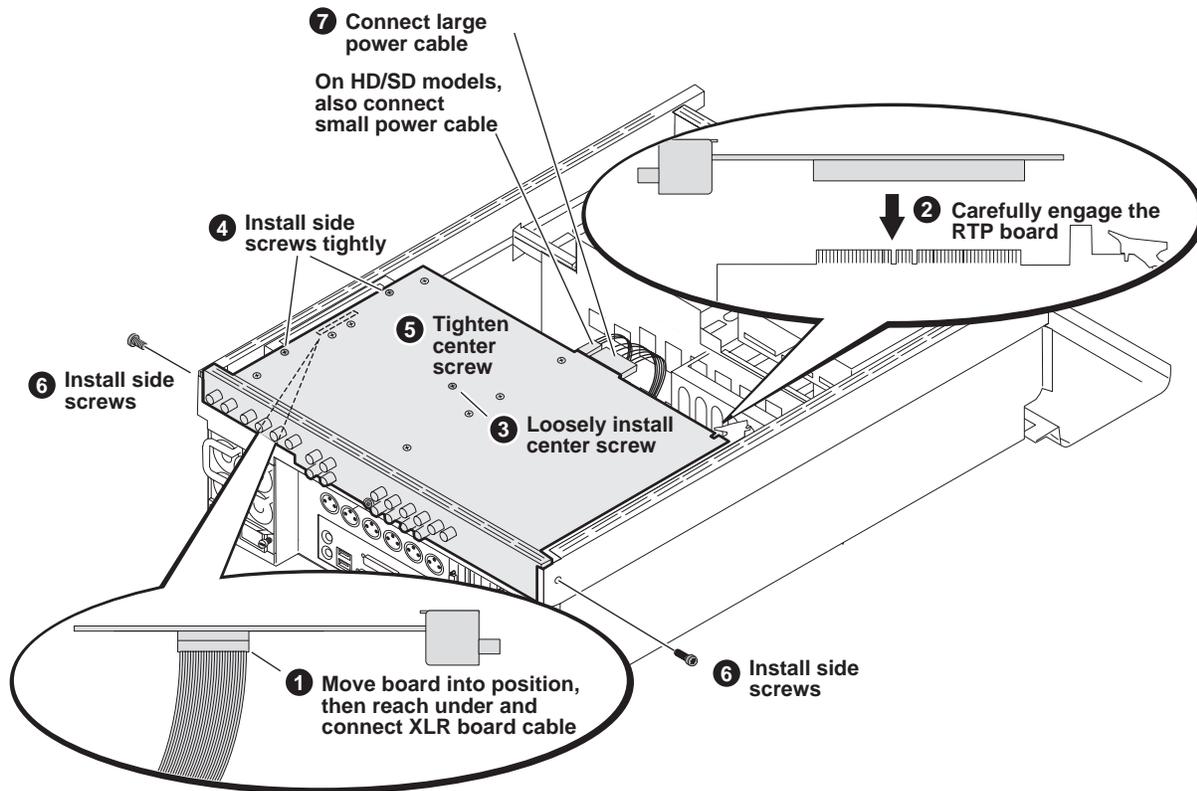
11. Replace the top cover.

12. Connect power cables.

13. Start up the K2 Media Client.

14. Log in to Windows.

15. When the AppCenter logon box appears, click **Cancel** and **Abort**.

16. Delete all configuration XML files in the *C:\profile\config* directory. These configuration files cannot be saved and reused.

    On restart, the K2 Media Client rescans hardware, discovers the new mezzanine board, reconfigures appropriately, and writes a new configuration file.

17. Restart the K2 Media Client, log in to Windows and AppCenter, and open Configuration Manager. The new channel should be available for configuration, according to the decoder (play channel) or encoder (record channel) installed.

    In addition, all settings on all channels are at the default values.

18. Configure all channels, making new settings on the new channel and returning existing channels to their previous settings.

Converting SD to HD

This section provides instructions for the following field kit:

Upgrade Nomenclature	Description
K2-SD-HD-UPGD-KIT	Converts a SD K2 Media Client to a HD K2 Media Client.

Tools and materials needed:

- Torx tool with T15 magnetic tip.

- HD codec board.

- The *K2 Media Client Service Manual*

⚠ **CAUTION: This system contains board-level components that must be protected from static discharge and physical shock. Wear a wrist strap grounded through one of the system's ESD Ground jacks when handling system components.**

Refer to instructions and illustrations earlier in this document and in the *K2 Media Client Service Manual* as needed.

To do the conversion:

1. Make a record of the settings in Configuration Manager for your current channels. Because the conversion process rewrites configuration files, all channel settings are reset to their default values. Therefore, at the end of the process you must reconfigure your channels.

2. On the K2 Media Client go to Windows **Add/Remove Programs** and remove **Grass Valley K2 Client** software.

3. Open Windows Explorer and delete the following file:

    C:/profile/config/config.xml

4. Shutdown the K2 Media Client

5. Remove both power cords from power supplies.

⚠ **CAUTION: To avoid possible damage to circuit boards and other sensitive parts, turn off the K2 Media Client and disconnect AC power before opening the top cover or removing any internal parts.**

6. Remove the top cover from the K2 Media Client

7. Remove the existing SD Codec board.

8. Switch the positions of the RTP card and Dual port network card.

9. Install the HD codec board. If you are also adding mezzanine boards, refer to instructions earlier in this document as appropriate.

10. Replace the top cover.

11. Connect power cables.

12. Start up the K2 Media Client.

13. Follow the procedure in the *K2 Media Client Service Manual* to make motherboard CMOS settings, which involves the following steps:

   • During startup processes, access BIOS settings.

   • Make BIOS settings.

   • Save settings and restart the K2 Media Client.

14. At startup, ignore "Found New Hardware" messages.

15. Install K2 client software and configure based on customer requirements.