



7500NB EXPANSION KIT

Installation Instructions

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SERIES 7000
SIGNAL MANAGEMENT SYSTEM

Contacting Grass Valley Group

Region	Voice	Fax	Address	Web Site
North America	(800) 547-8949 530-478-4148	(530) 478-3347	Grass Valley Group P.O. Box 599000	www.grassvalleygroup.com
Pacific Operations	+852-2585-6688 Support: 852-2585-6579	+852-2802-2996	Nevada City, CA 95959-7900 USA	
U.K., Europe, Asia, Middle East	+44 1753 218 777	+44 1753 218 757		
France	+33 1 45 29 73 00			
Germany	+49 221 1791 234	+49 221 1791 235		

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7500NB Expansion Kit

This expansion kit connects one 7500NB frame to another. Use it to expand from 256x256 to 512x512, 768x512, or 1024x512.

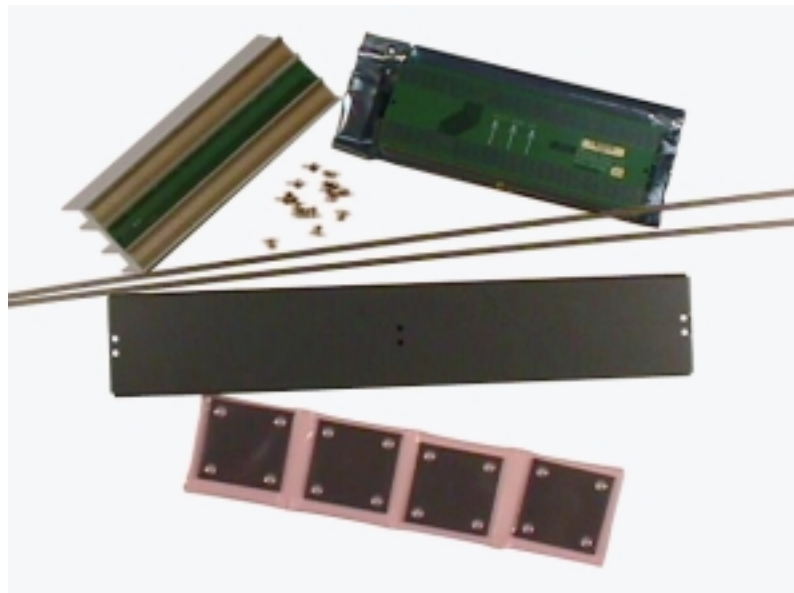
Kit Contents

The kit contains the following items:

Table 1. Kit Contents

Item and Part #	Part #	Quantity
Expansion Boards	671474600	2
Expansion Board Cover	200453300	1
EMI Shield Gasket for Cover	348165000	2 three foot strips
Tie Straps (sheet metal rectangles)	386714900	4
Screws for Straps	211109000	16

Figure 1. Components in the Expansion Kit



Planning Your Installation

We recommend that you install the expansion kit with the frames mounted in the rack.

WARNING If you must strap the frames together outside of the rack, do not attach the expansion boards and cover until after the frames are re-installed in the rack.

Note The core frame (the one with inputs 1-256) must be on top of the frame containing inputs 257-512. For further expansion, ensure that frames containing lower numbered inputs are on top of frames containing higher numbered inputs.

Installation Instructions

Follow these steps and precautions to install your expansion kit(s). The same procedures apply to BNC or 50 Pin D connector units.

You'll need the following equipment:

- Scissors or another tool to cut the EMI shield gasket into appropriate lengths, and
- A number 2 crosshead (Phillips) screwdriver.

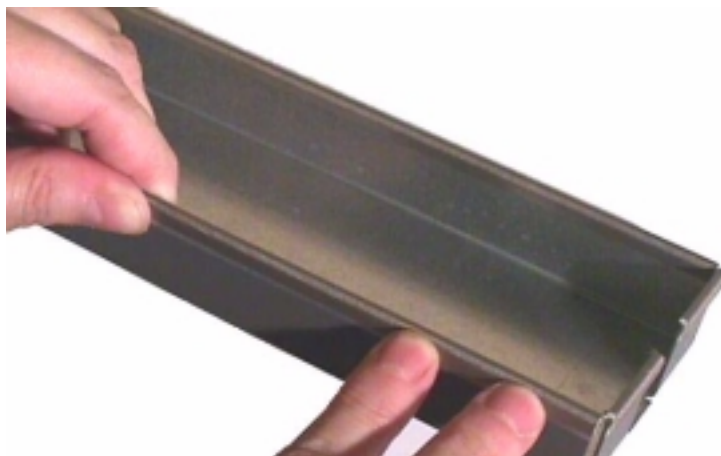
WARNING Obtain and use proper lift equipment and/or belts to prevent bodily injury.

CAUTION Use anti-static procedures — Static-sensitive components are present in frames and may be damaged by electrostatic discharge. Use anti-static procedures, equipment and surfaces during these procedures.

WARNING Avoid exposed circuitry — Do not touch exposed connections, components or circuitry when power is present.

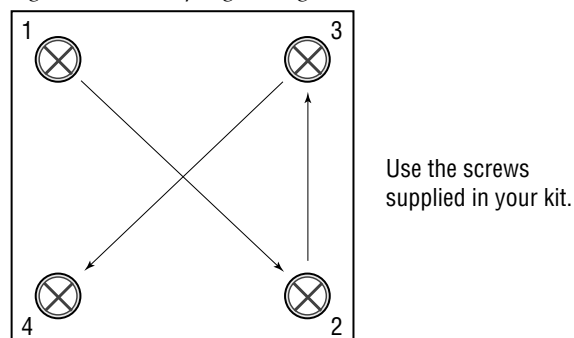
1. Confirm that you have all of the parts in the expansion kit by comparing kit contents to the parts list.
2. Apply the EMI shield gasket to the expansion board cover.
 - a. Use scissors to cut the gasket material into appropriate lengths for each edge of the expansion board cover.
 - b. Notice that three of the four outer edges and the entire inside of the expansion board cover are unpainted, and that the gasket material is L-shaped. After peeling the cover material from the adhesive on the gasket, adhere the long “leg” of the gasket to the three unpainted outer edges and finally to the remaining inner edge of the expansion board cover.

Figure 2. Applying the Last Section of EMI Gasket Material to the Expansion Board Cover



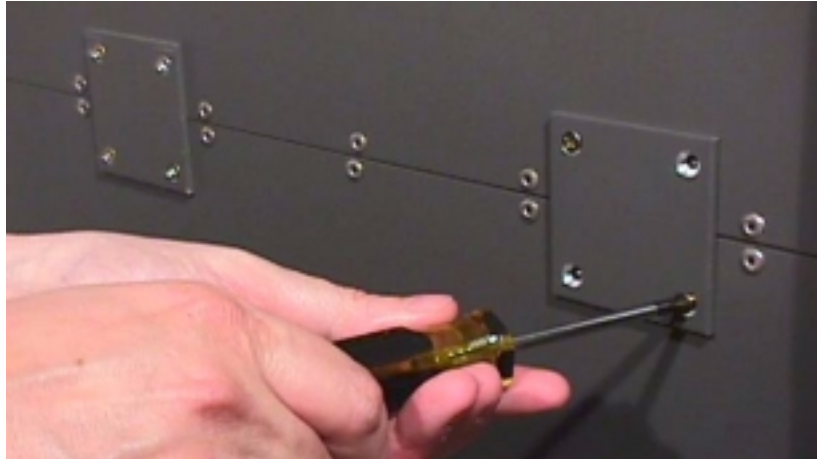
3. Ensure that the frame containing the higher numbered inputs is mounted in the rack immediately below the frame containing the preceding lower numbered inputs. If the frames aren't properly positioned relative to each other in the rack, you must reposition them before proceeding.
4. Mount the rear tie strap on either side of the frames first. Start all four screws, then tighten them in the sequence shown in [Figure 3](#).

Figure 3. Tie Strap Tightening Order



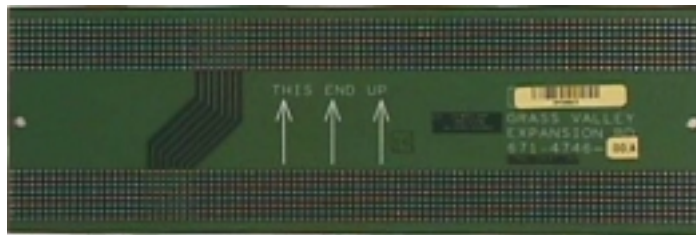
5. Once you've tightened the rear left and right tie straps, repeat the process with the two front tie straps.

Figure 4. Installing the Second Tie Strap



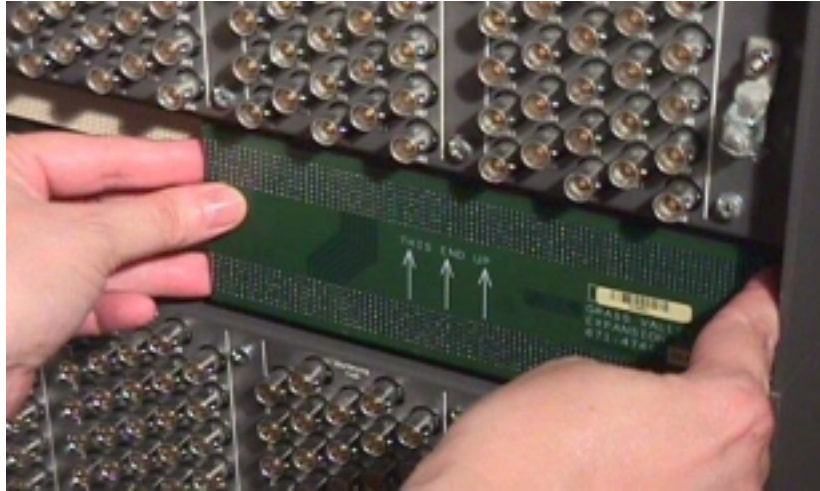
6. When all four tie straps are firmly attached to the frames, remove the lower expansion cover of the upper frame and the upper expansion cover of the lower frame to expose the expansion connectors. Be careful to place the screws where you can find them; you'll need them later in this process.
7. Remove one of the two identical expansion boards from its electrostatic-safe bag — either board will work on either side of the frame — and orient it with the arrows pointing up.

Figure 5. Properly Oriented Expansion Board



8. To avoid bending any pins on the expansion board, carefully align it with the top and bottom expansion connectors. The flanges on the board will help with vertical alignment; the frame's standoffs will help with horizontal alignment.
9. Once the expansion board is properly aligned, gently but firmly push on opposite ends of the board. It may be necessary to alternate pressure on opposite ends of the board.

Figure 6. Inserting the First Expansion Board



10. Ensure that the board is fully seated. Push firmly in its middle to ensure that the center pins are completely inserted and that there is no flex in the board.

Note The expansion board will be about 9 mm (3/8 in.) deeper than the standoffs (used to attach the cover) when it is fully seated.

11. Repeat [Step 7](#) through [Step 10](#) with the remaining expansion board.
12. Retrieve the expansion board cover you prepared earlier and carefully slide it into place. Use the six screws you set aside earlier in this procedure to firmly attach the cover.

Congratulations, you've completed installing your expansion kit. Consult your *Installation Manual* and *Configuration Manual* for help completing the installation and configuring your newly expanded system. In particular, you'll need to change your configuration for the following:

- Node controller,
- Configuration limits (Sources and Destinations),
- Source assignment, and
- Destination assignment.



Grass Valley Group Headquarters
P.O. Box 599000
Nevada City, CA 95959-7900
USA

www.grassvalleygroup.com

